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1993年夏期の北極域ツンドラ（Alaska, Barrow）の微気象データ

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Photo. 1 Bird's-eye view of the coastal Arctic tundra close to thawing (near Barrow).

Photo. 2 Over view of the coastal tundra near Point Barrow in mid-summer.

Photo. 3 Landscape of tundra polygons contiguous to the measurement point of the IBP site in mid-summer.

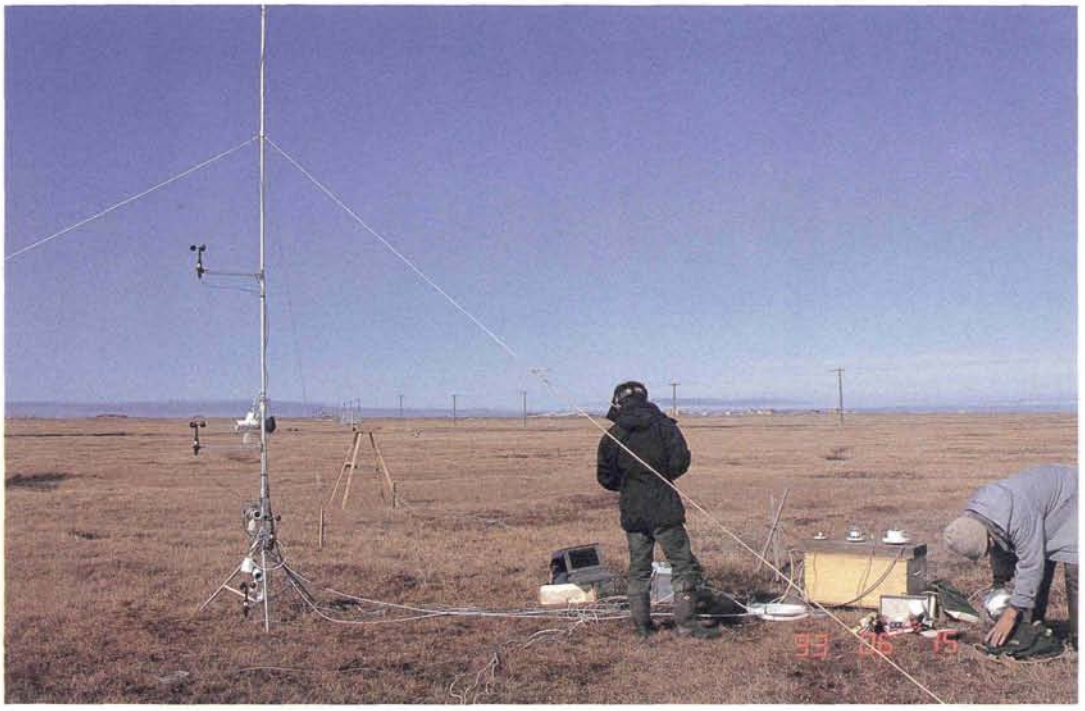

Photo. 4 Setting up micrometeorological sensors and data loggers at the IBP site in mid-June.

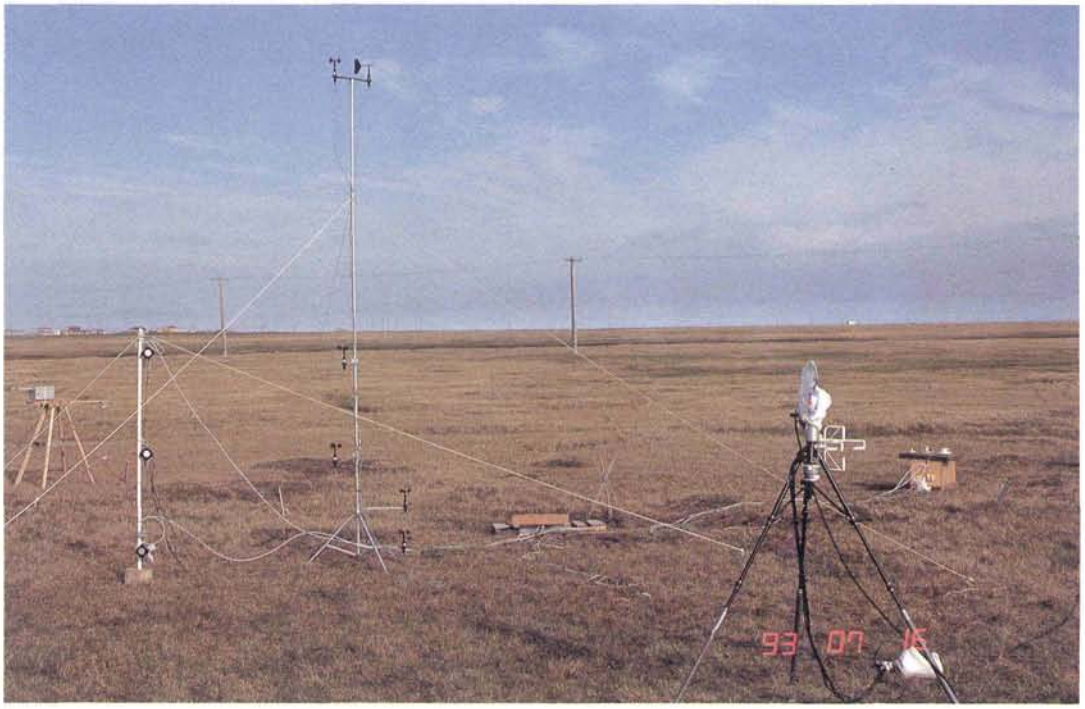

Photo. 5 The same as Photo. 4 except for the mid-July measurement.

Photo. 6 The same as Photo. 4 except for the last August measurements.

Photo. 7 Snow covered tundra and setting up of measuring instruments near CMDL/NOAA (June 8, 1993).

Photo. 8 Measurements of fluxes of CO_2, latent and sensible heat by the eddy correlation measurement on snow covered tundra near DMCL/NOAA (June 8, 1993).

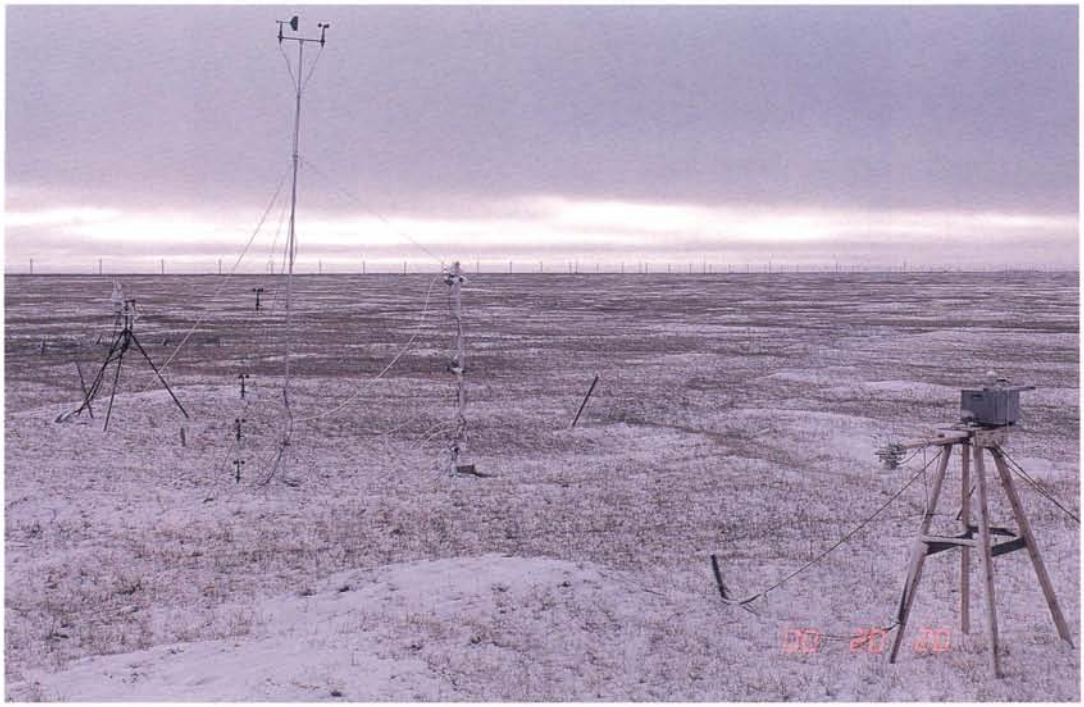

Photo. 9 View of snow cover after a fresh snow fall at Barrow in mid-August.

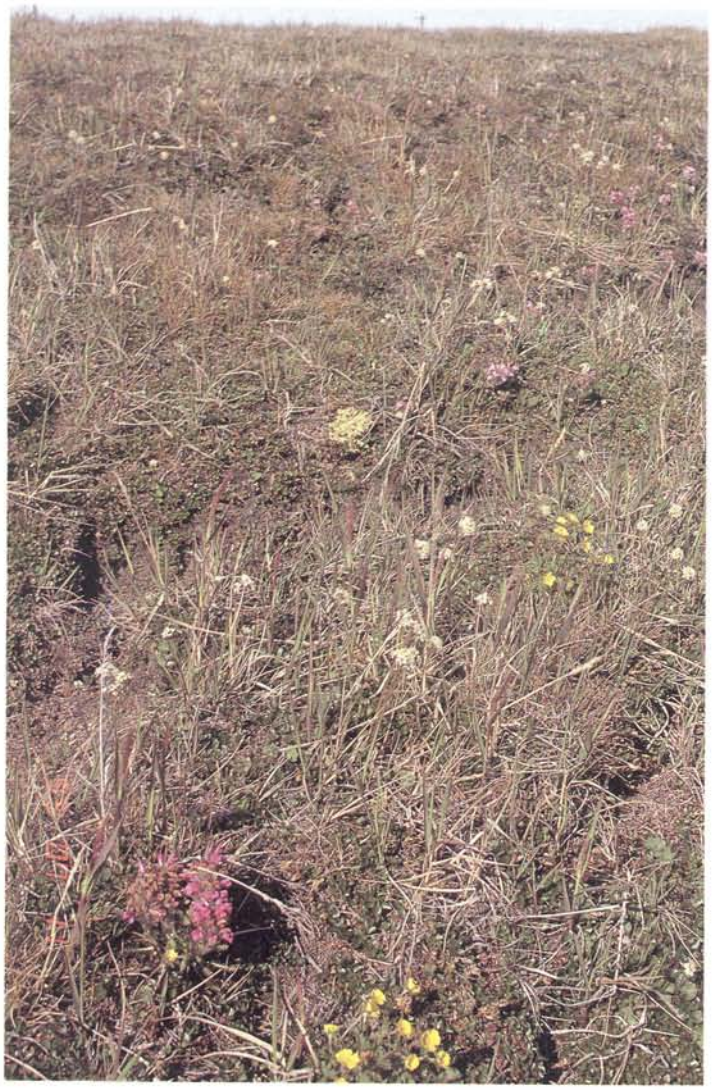

Photo. 10 A close look at the coastal dry tundra at IBP site showing a random mixture of fresh plants in a withered heath.

Photo. 11 Meadows, small bodies of water feature and pond margin at the coastal wet tundra at the Central Marsh site.

Photo. 12 CO_2 flux measurement at the IBP site using a chamber by the San Diego State University group.

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Micrometeorological Data and their Characteristics over the Arctic Tundra at Barrow, Alaska during the summer of 1993

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1. Introduction

The importance of atmospheric greenhouse gases on climatic warming has brought attention to global sinks and sources of carbon in terrestrial ecosystems (Mooney *et al.*, 1987; Post, 1990; Schlesinger, 1990; Tans *et al.*, 1990; Oechel and Billings, 1992; Harden *et al.*, 1992; Oechel *et al.*, 1993). Northern ecosystems (tundra and boreal forests) comprise 13% of the earth's land area but account for as much carbon storage as 22% of the terrestrial plant and soil organic matter, most of which (83%) is found in seasonally thawed layers or trapped in permafrost (Miller, 1981).

Northern ecosystems may be important for global carbon balance because climatic warming deepens the active layer of permafrost which causes erosion and eventual loss of permafrost over a great portion of Arctic tundra and boreal forest (Oechel and Billings, 1992). Consequently, Arctic hydrology makes the upper soil layers dry and the decomposition rate of organic matter in soil increases (Oechel and Billings, 1992). Furthermore, the rate at which carbon accumulates in terrestrial ecosystems depends on the vegetation and climate, and on the presumed sensitivity of soil carbon accumulation or loss to climatic change (Miller *et al.*, 1983; Billings, 1987). As a result, much of the carbon stored in the active soil layer and permafrost is released into the atmosphere, thereby increasing and exacerbating CO_2 caused warming (Billings *et al.*, 1982) and changing the micrometeorology of the tundra. Elevated atmospheric CO_2, along with changed micrometeorology and changed nutrient availability affect plant communities and vegetation. In the event of global warming and its attendant ecosystem and climatic changes, there is considerable uncertainty as to whether the northern ecosystem will act as a CO_2 sink or not.

In the 1970's Coyne and Kelley (1971, 1975) reported the characteristics of the micrometeorology and CO_2 flux over an area of tundra at Barrow in Alaska, as part of a study of the US International Biosphere Program (IBP). Coyne and Kelley (1971) measured wind profiles at several heights, CO_2 concentrations and air temperature profiles up to 16 meter in height, soil temperatures, solar radiation, and some other factors at the IBP site area, and then revealed that the Arctic tundra was a sink of atmospheric CO_2. Recently, Oechel et al (1993) measured CO_2 flux at a coastal Arctic tundra during 1991 and 1992 using a chamber method (see Photograph 12) and found that the Arctic tundra acts as a source of CO_2 today. They compared their CO_2 flux data with those of the early 1970's determined by Coyne and Kelley (1971, 1975) in the IBP program. Although, the present micrometeorological characteristics

at the site were not investigated precisely, the comparison of the micrometeorological data obtained at two different times with a twenty year difference can improve the understanding of the characteristics of Arctic tundra and the climatic warming.

This study was carried out to examine whether the coastal Arctic tundra acts as a sink or source today, with comprehensive measurements during the summer in 1993. The observation site was the same coastal Arctic tundra at Barrow, Alaska, used in the 1970's by Coyne and Kelley (1971, 1975). A micrometeorological survey and flux measurements were made using aerodynamic, heat budget, and eddy correlation methods. The micrometeorological data were obtained over almost all of the summer season of 1993 at Barrow. These results are valuable not only for further study of the Arctic ecosystem but also for assessing the contribution of tundra vegetation to global warming. Therefore, the data is reported here along with the analysis on the changes of CO_2 flux over the 20 years and the differences in CO_2 flux between wet tundra and polygonal dry tundra in the Arctic tundra ecosystem will be done in the near future.

2. Location and methods

2.1 Sites

The observation sites are located at two sites over coastal Arctic tundra near Barrow (71°18′N, 156°47′W, with a population of approximately 4000), the northernmost city in Alaska facing the Chukchi Sea. The Arctic coastal tundra is characterized by low relief, and dominated by ice-wedge polygons, shallow, oriented lakes and drained basins (Bunnell *et al.*, 1975). Over views of the Arctic tundra are shown in Photograph 1 during the thawing period of spring and Photograph 2 in mid-summer. The former measurement site is named the IBP site, and the latter the Central Marsh site. The locations of the two sites are shown in Fig. 1.

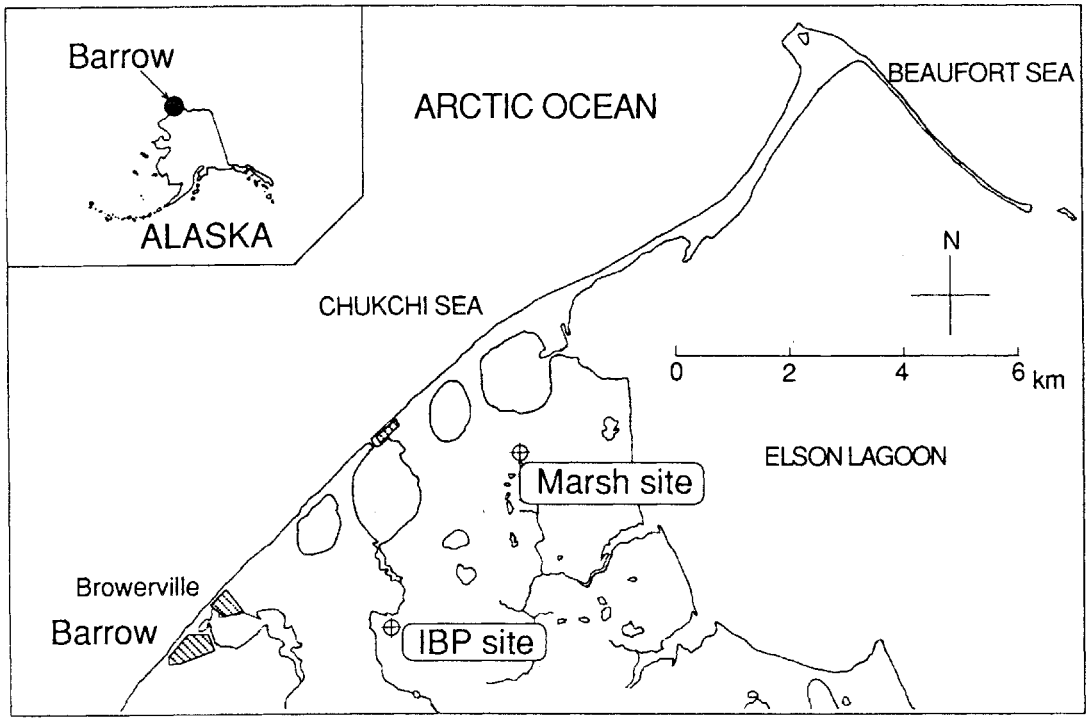


Fig. 1 Map of contiguous Alaska (inlet) and details of an area adjoining to the measurement sites (the IBP and the Central Marsh sites).

The IBP site is located 2.5 km east of the edge of Browerville village near Barrow city and 2.5 km from the southeast coast of the Chukchi Sea. This site is the same experimental site as that of the US International Biosphere Program (IBP) Tundra Biome intensive site (71°17′68″N, 156°41′33″W) of the 1970's. The measurement point was set at about 300 m south of the edge at a small creek that runs from Footprint Lake which is located south of the site. Flat tundra stretches over several kilometers in all directions from the measurement point except for the small creek, and an uneven polygonal pattern (polygon) 20 to 40 cm in height is scattered over some parts of the ground surface around the measurement point. The polygon around the IBP site is shown in Photograph 3. Sufficient fetch length was obtained of more than 1 km in the direction between the northeast and northwest and 300 m to the north, which was sufficient to evaluate the fluxes of momentum, heat and gases using micrometeorological techniques. There was an unpaved road about 0.8 km east of the measurement point but with very little traffic, and there was no serious influence of human activities to disturb the measurement except for CO_2 discharged from a gasoline power generator.

The Central Marsh site (hereinafter Marsh site) is located 7 km northeast of Barrow, 2 km southeast of the Chukchi Sea shore, and 2 km west of Elson Lagoon. The Central Marsh is a dried lagoon with an elliptic shape of approximately 3 km in major axis and 1.5 km in minor axis, and is now a flat and wet lowland. A wide bank rim (ridge) about 2 m in maximum height and 100 m in width surrounds the marsh. The measurement point (71°19′27″N, 156°37′09″W) was about 300 m from the nearest northeast bank-edge. The fetch of the Marsh site was more than 1 km to most directions except the northeast bank, and the influence of human activities on the measurement was as little as that at the IBP site.

2.2 Instruments and Setting them up for measurements

Field measurements were carried out at both sites using towers. A typical schematic view of measurement at the IBP site is illustrated in Fig. 2, and the setting conditions at the IBP site are shown in Photographs 4, 5, and 6 in mid-June, mid-July and late-August. At the IBP site, most measurements were carried out from June 15 to July 18 and from August 9 to August 25, and some elements were measured between July 19 and August 8. While at the Marsh site, almost the same elements as at the IBP site were measured between July 20 and August 8. The measured elements, instruments and their

mounting conditions at each site are listed in Table 1 for each period.

The EB750 power generator (AC120 V, 60 Hz, 750 W : Honda , Tokyo, Japan) was used to supply power for measurement at the IBP site. The generator was placed more than 100 m north of the tower by June 21, and was then moved to more than 200 m north to avoid CO_2 contamination from the generator. While at the Marsh site, we used the commercial power supply from the field observatory of the National Geography Service, which was about 400 m from the measurement tower.

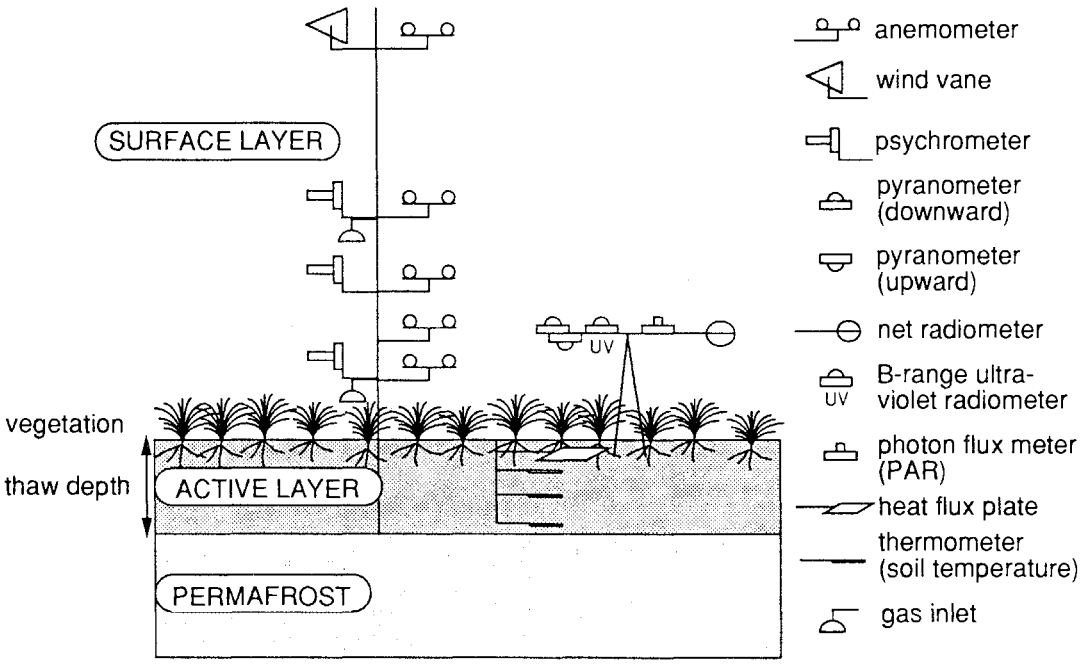


Fig. 2 Schematic illustration of the setting up of instruments at tundra.

Table 1 Measured elements and their set-up heights at the field.

Element	Symbol	Height (m)	Sensor
Wind speed (highest)	U1	4.7	Cup anemometer
Wind speed	U2	2.0	Cup anemometer
Wind speed (middle)	U3	1.2	Cup anemometer
Wind speed	U4	0.7	Cup anemometer
Wind speed (lowest)	U5	0.3	Cup anemometer
Wind direction	WD	4.7	Wind Vane
CO2 Concentration (higher)	CO2-H	2	NDIR CO2 analyzer Inlet height
CO2 Concentration (lower)	CO2-L	0.3	NDIR CO2 analyzer Inlet height
Solar Radiation	Rs	1.0	Thermopile Pyranometer
Reflection of Rs	Rsu	0.9	Thermopile Pyranometer
Net Radiation	Rn	1.2	Net Radiometer
Photosynthetic Active Radiation	PAR	0.3	Photon sensor
Ultra Violet Intensity	UVb	0.3	UV radiometer
Dry bulb Temperature (highe	Ta1	2	Ventilated psychrometer (PT-100)
Dry bulb Temperature (middl	Ta2	1.2	Ventilated psychrometer (PT-100)
Dry bulb Temperature (lower	Ta3	0.3	Ventilated psychrometer (PT-100)
Wet bulb Temperature (highe	Tw1	2	Ventilated psychrometer (PT-100)
Wet bulb Temperature (midd	Tw2	1.2	Ventilated psychrometer (PT-100)
Wet bulb Temperature (lowei	Tw3	0.3	Ventilated psychrometer (PT-100)
Soil Temperature	Ts1	0.01	Thermocouple (Type-T)
Soil Temperature	Ts2	0.05	Thermocouple (Type-T)
Soil Temperature	Ts3	0.10	Thermocouple (Type-T)
Soil Temperature	Ts4	0.20	Thermocouple (Type-T)
Soil Heat flux	G1	0.005	Heat flow plate
Soil Heat flux	G2	0.005	Heat flow plate

1) Micrometeorological components

The vertical wind profile was measured using 5 cup-anemometers (014A, Campbell Scientific Inc., Logan, USA) which were mounted at up to 4.7 m in height with a horizontal boom extending 0.5 m from the tower. Wind direction was measured with a wind vane (024A, Campbell Scientific Inc., Logan, USA) at the same height as the top anemometer. Dry-bulb and wet-bulb temperatures were measured using ventilated psychrometers (hand-made and calibrated with Asmann's psychrometer) with a platinum resistance thermometer at three different heights. The other two sets of psychrometers consisting of a T-type thermocouple sensor (Copper and Constantan, 0.31 mm diameter) were mounted at two different

heights on the other site. Soil temperatures at two to four depths were measured with the T-type thermocouple. Measured depths were 1, 5, 10, 20 cm below the surface, but the depth varied with the observation sites because of the limitation of the terminal numbers of the data logger. Depth is shown in the data tables for each measured site. Soil heat flux was measured with two thermopile-type heat flux plates (MF-9, Eko Instruments Co., LTD, Tokyo Japan), and both sensors were buried at 0.5 cm in depth and the average value of the two was obtained.

Downward solar radiation (Rsd) and reflected solar radiation (Rsu) were measured with thermopile-type pyranometers (MS-62, Eko Instruments Co., LTD., Tokyo, Japan), and each was mounted horizontally but facing opposite directions, and this set was used at the IBP site. The other thermopile -type pyranometers (PCM-03, Kipp & Zonen, the Netherlands) were used only at the Marsh site. Net radiation was measured continuously at the IBP site using a thermopile-type ventilated net radiometer (MF-11, Eko Instruments Co., LTD., Tokyo Japan), while a non-ventilated sensor (Q-6, Campbell Scientific, Inc., Logan, USA) was partly used at the Marsh site. Photosynthetic active radiation (PAR) was measured with a silicon photo diode-type photon flux meter (ML-020P, 400-700 nm in wavelength, Eko Instruments Co., Ltd., Tokyo, Japan). B-range ultraviolet radiation (UV-B, 280-315 nm in wavelength) was also measured with a silicon photo diode-type UV-B meter (MS-210W, Eko Instruments Co., LTD., Tokyo, Japan) during the latter half of the measurement period.

2) Carbon dioxide concentrations

The carbon dioxide (CO_2) concentration was measured using a non-dispersive infrared gas analyzer (ZFU1, Fuji Electric Co. Ltd., Tokyo Japan). Air at the two tower heights were sampled through each Teflon tube with a polyfluon filter (PF050, Toyo Filter, Ltd., Tokyo, Japan) at flow rates of 1.0 dm^3/min. Sampled air at each height was sent continuously to the switching solenoid valve (NCV -3, Takasago electric Inc., Tokyo, Japan), and one of them was alternately sent to the cell of the CO_2 analyzer. Water vapor included in the sample was removed using a semi-permeable drier (ZBJ0250, Fuji Electric Co. Ltd., Tokyo, Japan) before the inlet of the cell. The solenoid valve was controlled every 70 seconds interlocking with data acquisition by a data logger (21X, Campbell Scientific, Inc., Logan, USA). This system was used at both the IBP and Marsh sites.

Another non-dispersive infrared gas analyzer (ZFP9, Fuji Electric Co. LTD., Tokyo, Japan) was

also used at the IBP site from July 19 to August 8. In this system, the air flow rate was 0.6 dm^3/min, and the solenoid valve was switched every 60 seconds. Water vapor within the sampled air was removed by the membrane filter installed in the analyzer. However, the control of the switching valve by the data logger (CR10, Campbell Scientific, Inc., Logan, USA) failed for most of the measurement period due to the wet and cold conditions at the IBP site.

Calibration of both analyzers was made at any interval during the measurement periods using two levels of CO_2 standard gases (299.4 ppm and 473.6 ppm).

2.3 Periods of data collection

The preliminary measurement was carried out over snow-covered tundra near the Climatic Monitoring and Diagnostic Laboratory (CMDL), National Ocean & Atmospheric Administration (NOAA) located at the east of Central Marsh in Barrow from June 8 to 10. The circumstances of the measurement over snow covered tundra are shown in Photographs 7 and 8. These preliminary measurement data are not listed in this data book.

Measurement at the IBP site was carried out from June 15 to August 25, and at the Marsh site from July 19 to August 9. Most data were obtained at the IBP site, because there was not enough equipment for both sites. During the measurement period at the Marsh site, some sensors were moved from the IBP site to the Marsh site, therefore wind speed and wind direction were not measured and the number of measurements of depth of soil temperature and ventilated psychrometer were fewer than in other periods.

In the summer season, the summer time system is used in Alaska and the Alaska Standard Time (AKST) was 8 hours later than Greenwich Mean Time (GMT). In this paper the time is specified in AKST to show the data with time.

3 Acquisition of data and quality control

3.1 Mode of processing input signals from sensors

A digital data logger 21X (Campbell Scientific Inc., Logan, USA) with a relay multiplexer (AM416) was mainly used to collect both meteorological and CO_2 concentration data at both observation sites. Micrometeorological data were sampled every 70 seconds and the 10 minute average was recorded, because the AM416 of the platinum resistance thermometers did not work at the same interval as the interval timer SDM-INT8 of the cup anemometers in the field. Another digital data logger CR10 (Campbell Scientific, Inc., Logan, USA) was used at the IBP site on July 19 and August 8. In this data acquisition system, data were collected every 10 seconds and averaged every 10 minutes and then memorized. Data were subsequently processed in the laboratory after each run.

3.2 Quality control of data and calibration

Data stored in the data logger were checked for errors, and then the numerical values were converted to physical values with dimension. Correction of data was carried out for 10 minutes averages, then averaged again for every 30 minutes, the 30 minute average being specified as both periods from 10 to 40 minutes (specified as 00 of each hour in the tables) and from 40 to 10 minutes (specified as 30 of each hour in the tables).

1) Temperature data

There was no correction for soil temperature data obtained using thermocouples, because there was no significant difference among the sensors and the reference temperature of the logger was thought to be almost constant in the shielded wooden box. Platinum resistance thermometers were used as the sensors of the ventilated psychrometers which were calibrated at the National Institute of Agro -Environmental Sciences (NIAES) before and after the field measurement, and differences among the sensors were checked by setting them at the same conditions (location, height, direction) in the field. The field comparisons of the sensors were made three times from June 8 to August 25. The calibration factor for each sensor and the modified factor obtained by field checks were used in the calculation. Though, the thermocouple was also used as the sensors of ventilated psychrometers, the calibration and correction of these psychrometers were made in the same way as those with platinum resistance thermometers.

In the data tables, Ta1, Ta2 and Ta3 represent the 30 minute average air temperatures (℃) obtained by the ventilated psychrometers at each level. Ts1, Ts2, Ts3, and Ts4 represent the 30 minute average soil temperatures (℃) obtained by the thermocouples.

2) Humidity

Saturation water vapor pressures (mb) were calculated using the Goff-Gratch formulation (List, 1971) for wet bulb temperatures at each measured height. The formations used in the calculation for liquid water and ice were as follows:

$$\log e_{ws} = -7.90298\left(\frac{Ta}{T}-1\right)+5.02808\log\frac{Ta}{T}-1.3816\ 10^{-7}\left(10^{11.344\left(1-\frac{T}{Ta}\right)}-1\right)+8.1328\ 10^{-3}\left(10^{-3.49149\left(\frac{Ta}{T}-1\right)}-1\right)+\log(1013.246) \quad (1)$$

$$\log e_{is} = -9.09718\left(\frac{To}{T}-1\right)-3.56654\log\frac{To}{T}+0.876793\left(1-\frac{T}{To}\right)+\log(6.10714) \quad (2)$$

where,

e_{ws} = saturation vapor pressure of pure ordinary liquid water (mb)

e_{is} = saturation vapor pressure of pure ordinary water ice (mb)

T = absolute temperature (K)

Ta = steam point temperature (373.16 K)

To = ice point temperature (273.16 K)

Vapor pressures e_w (mmHg), relative humidity RH (%), absolute humidity of the air AH (g/m^3) were calculated using the following formulations.

$$e_w = 0.750617\left(e_{ws} - 0.000660\,(1+0.00115\,t_w)\,P\,(t_d - t_w)\right) \quad (3)$$

$$RH = 100\,\frac{e_w}{e_{wsd}} \quad (4)$$

$$AH = 1.06\,\frac{e_w}{(1+0.00367\,t_d)} \quad (5)$$

where,

e_{wsd} = saturation vapor pressure for dry bulb temperature (mmHg)

t_d = dry bulb temperature (℃)

t_w = wet bulb temperature (℃)

P = atmospheric pressure (mmHg)

We did not measure the air pressure P, therefore, the standard value of 760 mmHg was used in the calculation of equation (3). In the data tables, AH1, AH2 and AH3 represent the 30 minute average absolute humidity (g/m^3) in the air at each level calculated as mentioned above. RH1, RH2, and RH3 represent the 30 minute average relative humidity of the air obtained by formulation (4).

3) Radiation and soil heat flux

Data on net radiation, downward solar radiation and its reflection from the surface, were corrected using each calibration factor. Data on soil heat flux obtained using two heat flow plates were corrected in the same way as was radiation, then the averaged value of the two was determined as the soil heat flux (G, W/m^2) listed in the data tables. There was no correction owing to the heat storage between the surface and the heat flow plates because the thickness of the soil over the heat plate was very thin.

In the data tables, Rsd and Rsu represent the 30 minute average downward and upward (reflected) solar radiation (W/m^2), respectively. Rn represents the 30 minute average net radiation, UVb represents the 30 minute average flux density of the B-range ultra violet radiation (W/m^2), and PAR represents the 30 minute average photon flux density of photosynthetic active radiation (μE/sm^2) at the field obtained by each sensor mentioned in section 2.2.

Albedo was calculated using downward solar radiation Rsd and its reflection Rsu. Because the incidence angle of the sun's beams is low over the Arctic tundra, the accuracy of the pyranometers lessened with the increase of the incident angle. Thus, the reflection of solar radiation Rsu was greater than the downward solar radiation Rsd in some cases, therefore calculated albedo values over 0.5 were omitted from the data tables.

4) Wind speed and direction

Five cup anemometers were used in the field. The differences among the anemometers were checked in the wind tunnel of NIAES (the test section was 2, 2, 9 m in width, height, length, respectively and the wind speed range was 0.3 - 25 m/s) and in the field in the same way as the psychrometers. At first, a data sampling interval was designed every 10 seconds for the 5 anemometers simultaneously with

the interval timer SDM-INT8, but SDM-INT8 did not work with AM416 in the field. Therefore, wind speed was measured by counting the pulse of each anemometer every 10 seconds alternately, thus determining the wind profile every 70 seconds. Data were corrected using modified calibration factors obtained in the field. Field calibrations of all sensors were carried out three times at the same height over the tundra during the observation period.

In the data tables, U1 to U5 represents the 30 minute average wind speed (m/s) at each level. Owing to the different sampling timings of wind speed (every 70 seconds) the inversion of the wind profile was sometimes observed, therefore only three levels of wind speed are listed in the data tables. WD represents the 30 minute average value of wind direction, a number was specified from 0 to 360 degrees for the clockwise rotation from north - east - south - west - north.

5) Aerodynamic parameters

In order to investigate micrometeorological conditions, aerodynamic parameters were evaluated. The following is an outline of the methods used.

In the boundary layer, the wind profile over the vegetation or the ground surface can be expressed as formula (6) under neutral atmospheric conditions.

$$u(z)=\frac{u_*}{\kappa}\ \ln\frac{(z-d)}{z_0} \tag{6}$$

where $u(z)$ is the average wind speed at any height z, u_* is the friction velocity, κ is the von Karman's constant (0.41), d and z_0 are zero plane displacement and the roughness length of the surface. In the turbulent boundary layer over vegetation, momentum flux τ was given by equation (7).

$$\tau=-\rho\ Km\ \frac{du}{dz}=\rho\ u_*^{\,2}=-\rho\ uw \tag{7}$$

Where ρ is the density of air, Km, the eddy diffusivity of momentum. According to the mixing-length hypothesis by Prandtl, uw is obtained as equation (8). Where lm is a mean mixing length and is proportional to κ and z in the turbulent boundary layer (Arya, 1988).

$$uw = -lm^2 \frac{du}{dz}\frac{du}{dz} \tag{8}$$

Thus, Km is also expressed using wind profiles as equation (9), and an integrated formula to calculate the momentum flux is given as follows (Denmead, 1970).

$$Km = \kappa^2 z^2 \frac{du}{dz} = \kappa^2 \frac{u}{\ln(z / z_0)} = \kappa^2 \frac{z\ \Delta u}{\ln(z_2 / z_1)} \tag{9}$$

$$\frac{\tau}{\rho} = \kappa^2 \frac{\Delta u\ \Delta u}{\{\ln(z_2 / z_1)\}^2} = Df\ \Delta u \tag{10}$$

where Δu is the difference in the wind speed between the heights of z_1 and z_2, and Df is diffusive (diffusion) velocity for the momentum between the two heights. Then, diffusion velocity Df can be obtained from the next formula under neutral atmospheric conditions:

$$Df = \frac{\kappa^2 (u_2 - u_1)}{(\ln(z_2 - d) - \ln(z_1 - d))^2} \tag{11}$$

u_1 and u_2 are mean wind speeds at height z_1 and z_2, respectively and d and other aerodynamic parameters such as z_0 and u_* can be obtained by the regression line of the logarithmic wind profile (Harazono *et al.*, 1990, 1993), using the following equations, where a and b are coefficients of the regression equation.

$$\ln(z - d) = \mathrm{a}u(z) + \mathrm{b} \tag{12}$$

$$u_* = \kappa / \mathrm{a} \tag{13}$$

$$z_0 = \exp(\mathrm{b}) \tag{14}$$

If the atmospheric stability is negative, Df has to be corrected according to the stability function (Thom, 1975). In this study, the Richardson number Ri was used to check atmospheric stability, and the flux was modified using a corrected function with specific function $F(Ri)$.

$$Dfc = \frac{\kappa^2 (u_1 - u_2)}{(\ln (z_1 - d) - \ln (z_2 - d))^2} F(Ri) \tag{15}$$

The corrected diffusion velocity Dfc was obtained from formula (15) according to Thom (1975), and the specific function $F(Ri)$ of the Richardson Number Ri is given in formula (16). T_{a1}, T_{a2}, T are the air temperatures at heights z_1 and z_2, and mean temperature (unit K), respectively.

$$Ri = \frac{g}{T} \frac{(T_{a1} - T_{a2})(z_1 - z_2)}{(u_1 - u_2)^2} \tag{16}$$

$$F(Ri) = (1 - 16Ri)^{0.75} \qquad -0.2 < Ri < 0 \qquad (17-a)$$

$$F(Ri) = (1 - 5Ri)^2 \qquad 0 < Ri < 0.2 \qquad (17-b)$$

In the data tables, z_0 (cm), u_* (m/s), Ri and Dfc (cm/s) are listed, having been calculated according to the above analysis. Df in the data table is a modified value for gas transportation (the same as Dfc), and it will be useful to evaluate CO_2 flux, water vapor (latent heat) flux, and sensible heat flux in the following analyses. Although, there is some uncertainty in the correction equations (17-a,b), the Df value may be modified slightly in further studies.

6) Carbon dioxide concentration

Calibration of the infrared CO_2 gas analyzer was carried out using two standard gases in the field and laboratory in Barrow. The levels of the standard gases used were 299.4 ppm and 473.6 ppm. Unfortunately, at the IBP site, we had to stop the generator almost once a week in order to change the oil. Output levels of the CO_2 analyzer shifted slightly after restarting the generator, therefore some CO_2 data obtained after the maintenance of the generator were modified.

Background CO_2 data were provided by NOAA's Climatic Monitoring and Diagnostic Laboratory (CMDL) located to the east of Central Marsh in Barrow. Because there are great differences in averaging, sampling heights, sampling equipment and sampling intervals between the background data by NOAA and the measured data over the tundra, there might be some differences in the concentration levels listed.

4. Additional reference data

4.1 Background CO_2 concentration data by NOAA

Hourly background CO_2 data from the micrometeorological measurement period are also listed in the data tables (B-CO2). These data were prepared by NOAA's Climatic Monitoring and Diagnostic Laboratory (CMDL). The air at 15 m high tower was sampled and analyzed by an NDIR analyzer (ULTRAMAT, Siemens, Germany). The averaging periods in hours are specified as the beginning of the hour, for example, hour 5 corresponds to 5 AM to 6 AM AKST. Therefore, the averaged periods of background CO_2 concentrations are different from those of measurements of the CO_2 concentrations over the tundra. A selection process has undertaken to distinguish "background" concentrations, that is, the values that CMDL believed were not contaminated by local sources or sinks of CO_2 were selected. The selection process depended on the station (Peterson *et al.*, 1986). The collected air sample, which was from a strict clean air sector, was as a defined wind direction between 20 and 110 degrees for Barrow. The standard deviation of the 1-minute average had to be less than 0.3 ppm, otherwise the hour gets a "V" (variable) flag. Also, the average change from one hour to the next is less than 0.25 ppm. Some data have additional codes, and there are a large number of possible codes, but the most common codes used in the tables are:

C - Weekly calibration of reference gases, no data available

I - Instrument malfunction, no data available

V - Large variability of CO_2 concentration within one hour

D - Hour-to-hour difference in concentration >0.25 ppm

A - Automatic selection based on residuals from a spline curve

Details concerning the background data by CMDL/NOAA were reported by Peterson *et al.* (1986).

Table 2 Monthly climate data of Barrow National Weather Station on June, 1993.

Date	Precipitation (mm)	T max. (°C)	T min. (°C)	T mean (°C)	Wind max. (m/s)	Wind mean (m/s)
1	0.3	0.6	-1.7	-0.6	5.8	4.00
2		1.7	-1.7	0.0	5.4	3.47
3		1.1	-2.2	-0.6	5.4	4.07
4		1.7	-2.2	-0.3	6.7	5.01
5		0.0	-3.9	-1.9	9.8	7.46
6		0.0	-3.9	-1.9	12.5	9.52
7	2.8	2.2	-1.7	0.3	12.5	7.78
8		6.1	0.6	3.3	6.3	4.60
9	0.3	5.0	0.6	2.8	6.7	5.45
10	5.8	2.8	0.6	1.7	6.3	3.98
11		3.9	0.0	1.9	9.8	6.48
12		1.7	-0.6	0.6	12.5	9.70
13		7.8	0.0	3.9	10.7	5.05
14		3.3	-0.6	1.4	8.9	6.71
15	0.3	10.6	-0.6	5.0	7.6	4.20
16		8.3	-0.6	3.9	7.6	5.00
17		1.7	-1.7	0.0	4.0	3.58
18		6.7	-1.1	2.8	5.8	3.58
19		5.0	0.0	2.5	5.4	3.26
20		3.3	0.0	1.7	6.7	4.25
21		3.3	0.0	1.7	7.2	5.77
22	0.3	3.3	-0.6	1.4	6.3	4.11
23		2.2	0.6	1.4	6.7	5.19
24		2.8	0.0	1.4	6.7	4.96
25		3.9	-0.6	1.7	8.9	6.35
26	1.3	6.7	-0.6	3.1	9.4	7.42
27		11.7	2.2	6.9	5.8	3.17
28		17.8	3.3	10.6	7.2	4.16
29	0.3	17.2	8.9	13.1	5.8	2.64
30		11.7	1.1	6.4	7.2	4.60

Table 3 Monthly climate data of Barrow National Weather Station on July, 1993.

Date	Precipitation (mm)	T max. (°C)	T min. (°C)	T mean (°C)	Wind max. (m/s)	Wind mean (m/s)
1		7.8	1.1	4.4	10.7	8.00
2		6.1	1.1	3.6	13.4	11.30
3		5.6	1.1	3.3	9.4	7.00
4		10.0	2.2	6.1	6.3	3.71
5		3.9	1.7	2.8	6.3	4.29
6	1.5	3.9	1.7	2.8	5.4	4.25
7		6.7	1.1	3.9	5.8	4.20
8		11.7	2.2	6.9	5.8	3.98
9		17.8	6.7	12.2	9.8	5.86
10	0.3	14.4	6.7	10.6	8.0	6.08
11		12.8	6.1	9.4	10.7	7.92
12		22.2	6.7	14.4	8.0	4.34
13	0.8	26.1	8.9	17.5	10.7	6.26
14		22.8	7.2	15.0	10.3	5.86
15	0.3	13.3	5.0	9.2	8.9	5.86
16		11.1	4.4	7.8	7.2	4.74
17	4.1	8.3	3.3	5.8	8.9	5.77
18		13.9	5.0	9.4	7.6	5.10
19	0.5	8.4	5.0	6.9	4.0	2.77
20	0.3	20.0	2.8	11.4	8.0	4.20
21		4.4	1.7	3.1	8.0	6.79
22		5.6	1.1	3.3	7.2	5.10
23		13.3	2.2	7.8	6.7	4.92
24	0.8	9.4	0.0	4.7	7.6	4.43
25		6.7	0.0	3.3	8.9	5.45
26		20.0	2.8	11.4	8.9	5.87
27		12.8	7.2	10.0	7.2	4.34
28	0.3	9.4	2.2	5.8	9.4	4.34
29	4.6	10.6	1.1	5.8	19.2	12.50
30		5.6	-0.6	2.5	13.0	5.95
31	3.8	9.4	0.0	4.7	7.6	4.65

Table 4 Monthly climate data of Barrow National Weather Station on August, 1993.

Date	Precipitation (mm)	T max. (°C)	T min. (°C)	T mean (°C)	Wind max. (m/s)	Wind mean (m/s)
1	4.8	7.8	2.8	5.3	8.9	4.16
2	4.6	7.8	0.6	4.2	6.7	4.11
3	0.3	3.9	-0.6	1.7	5.4	2.59
4		2.8	-1.7	0.6	8.0	6.26
5		2.2	-0.6	0.8	9.4	7.11
6		2.8	-1.7	0.6	7.6	6.08
7		1.7	-0.6	0.6	8.9	5.41
8		2.2	-2.2	0.0	6.3	4.74
9		3.3	0.6	1.9	8.0	5.99
10		8.9	1.1	5.0	10.3	6.44
11		6.7	-0.6	3.1	8.9	6.97
12		2.2	-0.6	0.8	11.2	8.58
13		3.3	-0.6	1.4	8.9	6.79
14		2.8	0.0	1.4	6.3	4.16
15	0.8	1.1	0.0	0.6	5.8	4.60
16		2.8	-0.6	1.1	7.6	5.05
17		8.9	1.7	5.3	7.6	5.99
18		13.3	2.2	7.8	8.0	5.45
19		12.8	3.3	8.1	10.7	7.33
20		9.4	2.8	6.1	10.7	6.88
21	0.8	7.2	1.1	4.2	6.7	3.98
22	0.3	2.8	0.6	1.7	5.8	4.69
23	1.5	2.2	1.1	1.7	4.5	3.13
24	1.8	4.4	2.2	3.3	4.0	2.86
25	4.6	6.1	2.8	4.4	6.7	4.11
26		4.4	2.2	3.3	4.5	3.35
27		5.6	2.2	3.9	4.0	2.99
28	2.8	4.4	1.7	3.1	9.4	6.48
29	1.0	2.8	0.0	1.4	9.4	7.06
30		1.1	-1.1	0.0	6.3	4.96
31	1.8	0.0	-1.7	-0.8	6.7	4.20

4.2 Monthly weather data from the National Weather Service

There is a first order National Weather Service (NWS) station located in the center of Barrow. Climate data listed in this data book were collected and compiled by Brown *et al.* (1994). Monthly data from June, July and August are shown in Tables 2, 3, and 4. Maximum and minimum temperatures were recorded automatically, and mean temperature was calculated from a max-min amplitude. Precipitation was recorded at 7 o'clock (AKST) on the next day, and the record period was different from temperature data. Wind speed was measured at the top of the station building which was more than 10 m in height, therefore the wind speed listed in the Tables 2 to 4 obtained at NWS/Barrow were higher than those obtained at 4.7 m high over the tundra.

The station is located in the center of the city and there are many buildings near the station. Temperatures in the city might have been higher than that over tundra because of the effects of urban climate in the data of NWS, especially in summer.

4.3 Thaw depth

Thaw depth was measured by striking an iron stick (diameter 8 mm) vertically into the ground to the permafrost table. Measurements were made almost every week for the IBP and Central Marsh sites. At the IBP site, we measured thaw depth at four different conditions on the ground, high center, low center, the rim (ridge) of the polygon and ice wedge (trough). The schematic illustration of the polygon is shown in Fig. 3 (after Patrick, 1978), At the Marsh site, measurements were carried out at both the upland (dry tundra) of the bank side and the lowland (wet tundra) of the basin. At each point, more than 10 samples of thaw depth were measured and the average was used for analysis. The trend of thaw depth is shown in Fig. 4 for the IBP site, in Fig. 5 for the Marsh site.

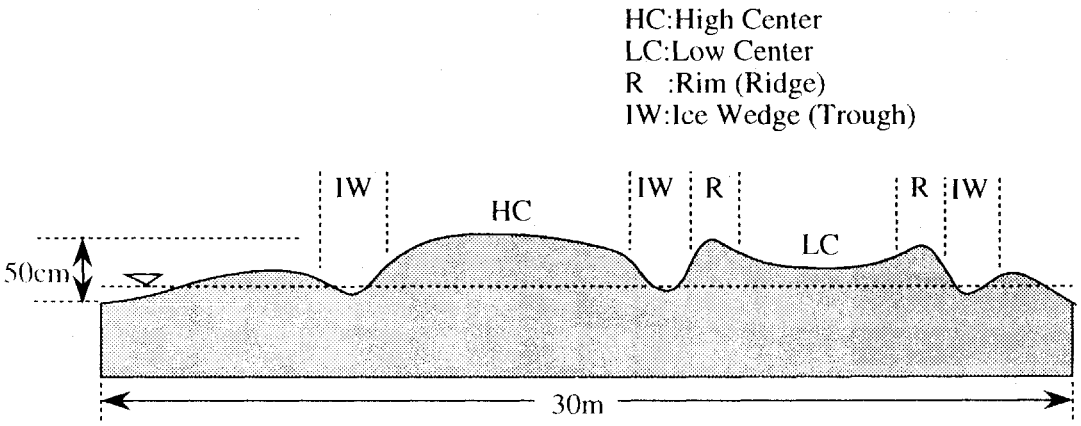


Fig. 3 The principal micro relief features of polygons at the IBP site (after Patric, 1978).

5. Notes on results

5.1 Field conditions during the measurement periods

The sun was above the horizon from the beginning of measurement till mid-August. More than 80% of the snow melted by June 10 at the Marsh site and by June 12 at the IBP site. However, snowfall was observed even in the morning in July and in the daytime in mid-August, and we had 3 cm of snow on August 15 (Photograph 9). Fog was often observed at both sites, especially in June and August. The beach of the Chukchi Sea was covered with ice floe till late June. After early July, ice floes left the beach, but sometimes came close to the beach with strong northerly winds.

According to a report of the first order National Weather Service (NWS) station located in the city of Barrow, July 1993 was the second warmest July on record, but August was cooler than usual (Brown *et al.*, 1994).

Vegetation at IBP site was a relatively dry coastal tundra community consisting of several species of dry heath, wet heath, and mist meadow (Bunnell *et al.*, 1975). At the beginning of the measurement (mid-June), there was no living grass but dead shoots whose average height was less than 10 cm (Photograph 4). Although, the density of the grass was low, the soil was covered with a moss carpet whose depth increased with thaw depth and with a maximum thickness of about 10 cm. Fresh leaves of grass germinated over the moss surface after late June, then grew up to about 25 cm in late July (Photograph 10). Thaw depth was different at the high center, low center, rim and ice wedge of the polygon. The former was deeper than the latter, and the maximum depth was 28 cm at the high center in early August, while that at the ice wedge it was 21 cm. The trend in thaw depth is shown in Fig. 4.

The vegetation at the Marsh site was a wet meadow tundra community, and the major plants around the observation site were some species of wet meadow and pond margin (Bunnell *et al.*, 1975). Some species of meadow germinated in the pond in late June and grew to about 15 cm in average height in late July, and to a maximum height of 25 cm in early August (see Photograph 11). Surface conditions at the measurement point were shallow puddles (pond), much wetter than at the IBP site. Thaw depth at the lowland was almost zero in June 8 and the permafrost dissolved up to a maximum depth of 29 cm in early August, while the maximum depth at the bank was 44 cm at the same time (Fig. 5).

5.2 Daily variations of heat budget components

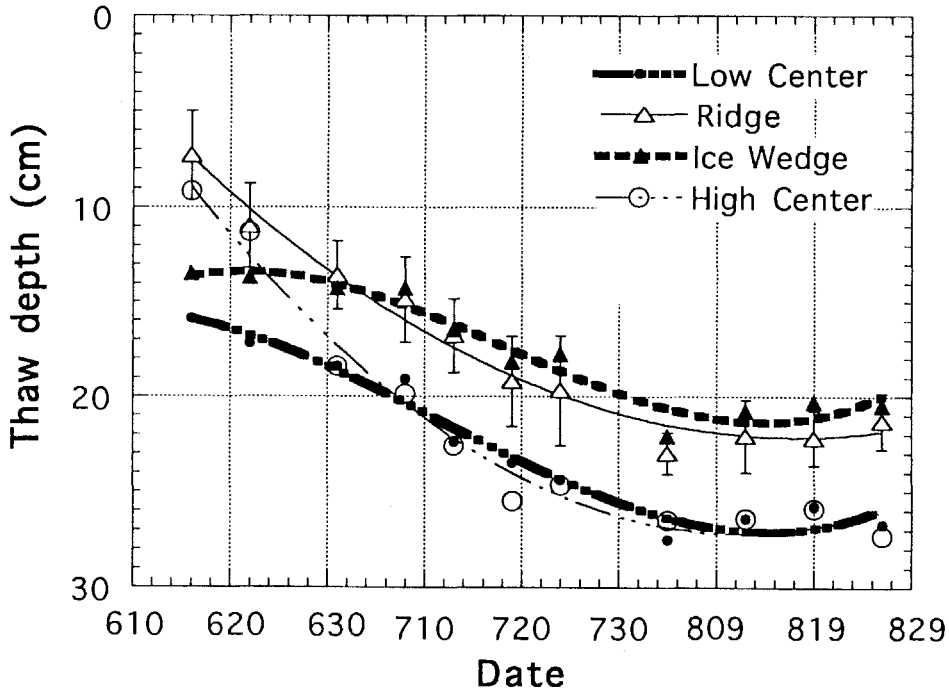


Fig. 4 Variations of thaw depth at the IBP site. Refer to Fig. 3 for characteristic surface features.

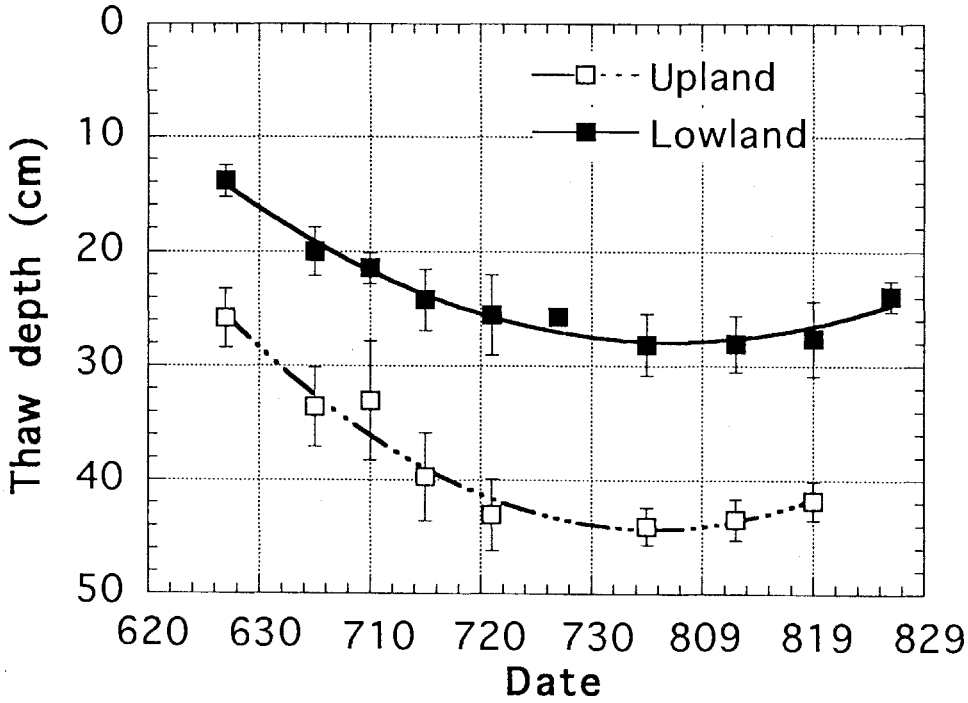


Fig. 5 Variations of thaw depth at the Central Marsh site.

1) Heat budget analysis

The heat budget of a ground surface is given by the equation,

$$Rn = H + lE + G \tag{18}$$

where Rn, H and lE are the net radiation, sensible heat flux and latent heat flux (l is the latent heat of the vaporization of liquid water and E is the evaporation rate), and G is the heat flux through the soil surface (W/m^2). In the turbulent boundary layer, the diffusion velocity of water vapor is assumed to be equal to that of heat (Monteith, 1973). The Bowen ratio, β is defined as the ratio of sensible to latent heat flux as the middle of equation (19). Thus β can be determined from the gradients of temperature and humidity as follows:

$$\beta = \frac{H}{lE} = \gamma \frac{\Delta T_a}{\Delta e_a} \tag{19}$$

where γ is the psychrometric constant, and ΔT_a and Δe_a are vertical gradients of air temperature and vapor pressure. Energy fluxes of H and lE can be determined using Bowen ratio β and measured values of Rn and G as follows:

$$H = \beta \frac{Rn - G}{1 + \beta} \tag{20}$$

$$lE = \frac{Rn - G}{1 + \beta} \tag{21}$$

2) Typical results of heat budget over the tundra at the IBP site

Fig. 6 shows the daily patterns of the heat budget components, Rn, lE, H and G at the IBP site in mid-June (a), late June (b), mid-July (c), late July (d) and early August (e).

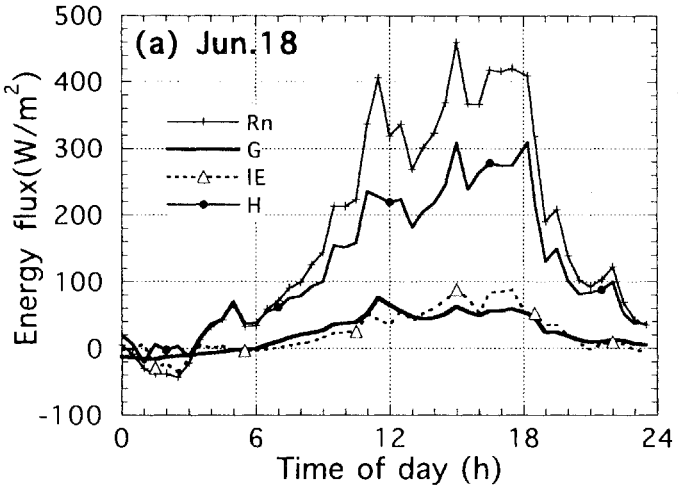
Before mid-July, the sensible heat flux H accounted for most of the net radiation Rn, and the contribution of latent heat flux to Rn was small. The wind with low temperatures and high humidity blew over the Arctic tundra frequently which caused high sensible heat flux. The contribution of H to Rn was about 75%, and that of lE was 12% in the earlier half period of measurement (from June 15 to July 17).

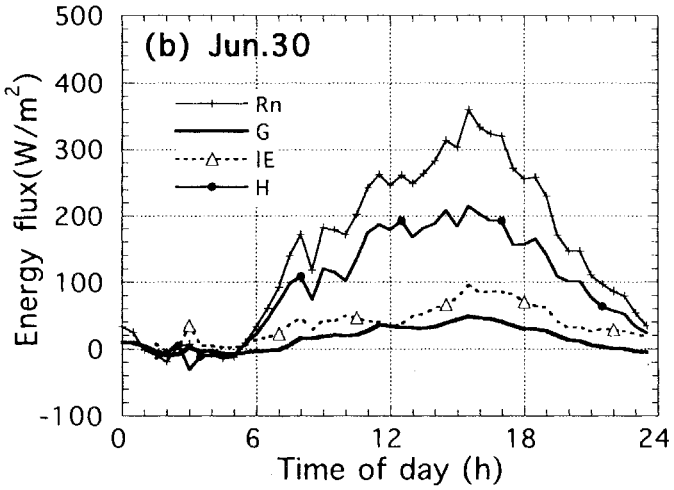
During the mid-summer (late-July) the daily maximum of the latent heat flux often exceeded

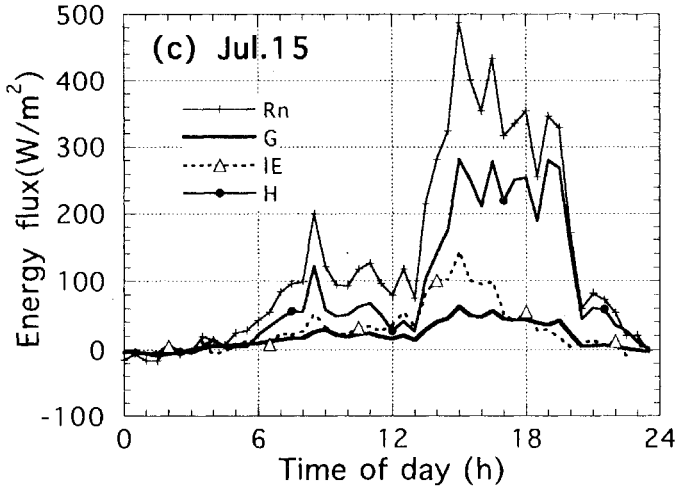
100W/m^2, and its contribution to Rn increases to 34%. The contribution of H was about 55%.

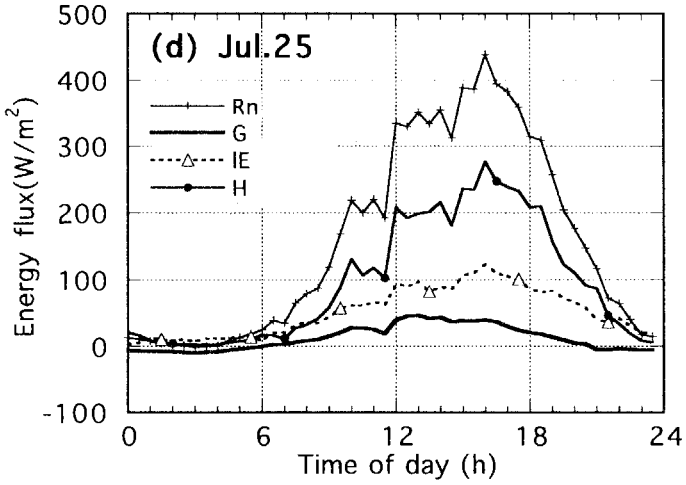
In the period of late-summer (from August) Rn decreased significantly which caused a decrease of H and G, though the level of lE was almost the same as that of mid-summer (about 3MJ/m^2 day). The contribution of lE to Rn was 44%, and that of H was 45%. The increasing trend of lE was caused by a deepening of the thaw depth as shown in Fig. 4 and Fig. 5.

The contribution of soil heat flux G to Rn was within 11-15% for each clear day.


(a) Jun.18
Rn
G
IE
H
Energy flux(W/m2)
500
400
300
200
100
0
-100
0
6
12
18
24
Time of day (h)


(b) Jun.30
Rn
G
IE
H
Energy flux(W/m2)
500
400
300
200
100
0
-100
0
6
12
18
24
Time of day (h)


(c) Jul.15
Rn
G
IE
H
Energy flux(W/m2)
500
400
300
200
100
0
-100
0
6
12
18
24
Time of day (h)



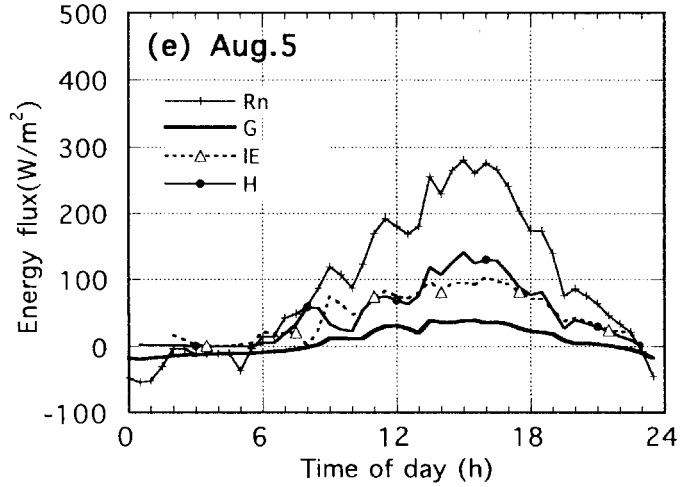


Fig. 6 Daily variations of the heat budget components for representative days (a: mid-June, b: late June, c: mid-July, d: late July, and e: early August) at the IBP site. *Rn*: net radiation flux, *H*: sensible heat flux, *lE*: latent heat flux, *G*: soil heat flux.

5.3 Intra-season variation of the micrometeorological characteristics over the tundra

Fig. 7 represents the seasonal trend of the daily summation of downward solar radiation *Rsd* net radiation *Rn*, and soil heat flux *G*. Fig. 8 represents the seasonal trends of daily average air temperature *Ta* and absolute humidity *AH* of the air (height 2.1 m), and Fig. 9 represents daily average wind speed of the highest level U_1 and wind direction (height 4.7 m) over the tundra. Daily average values were calculated using each 30 minute average.

The daily accumulation of solar radiation accounted for more than 25 MJ/m^2 per day on clear and relatively low wind speed days in the earlier half of measurement (from mid-June to mid-July) which was almost the same as that measured at the central part of Japan in summer. Net radiation ranged from 8 to 18 MJ/m^2 par day in late July, then decreased with solar radiation. Soil heat flux also changed with *Rsd* and/or *Rn*, but the amplitude of the fluctuation was smaller than those of *Rsd* and *Rn*. The long term trend of the contribution of *G* to *Rn* did not change remarkably those values ranging within 11-15 % of *Rn*. The share of *Rn* to *Rsd* was smaller in the earlier half period of the measurement compared to the latter half, because of the continuous solar radiation of the mid night sun. Solar energy mainly contributed to sensible heat by late July, but after August there was a few clear days and radiative cooling at night, thus the solar energy did not contribute to the sensible heat.

The amplitude of the daily average air temperature was large in mid summer, while the level of absolute humidity did not change remarkably. The maximum air temperature was observed in mid -July, which was almost three weeks after the peak of solar radiation. Higher air temperatures of more than 20℃ were observed in the afternoon under both low wind speed and clear conditions, while, lower air temperatures of less than 0℃ were observed on windy and foggy days.

Wind speed over the Arctic tundra was relatively high almost every day, and sometimes the daily average exceeded 10 m/s , of which the hourly average exceeded 15 m/s. These high wind speed might provide a large portion of sensible heat, especially in the measurement period before mid-July. Wind direction changed almost every day, and the dominant wind direction, which was different from the dominant direction reported by Herbert *et al* (1991), was northwest and east to southeast.

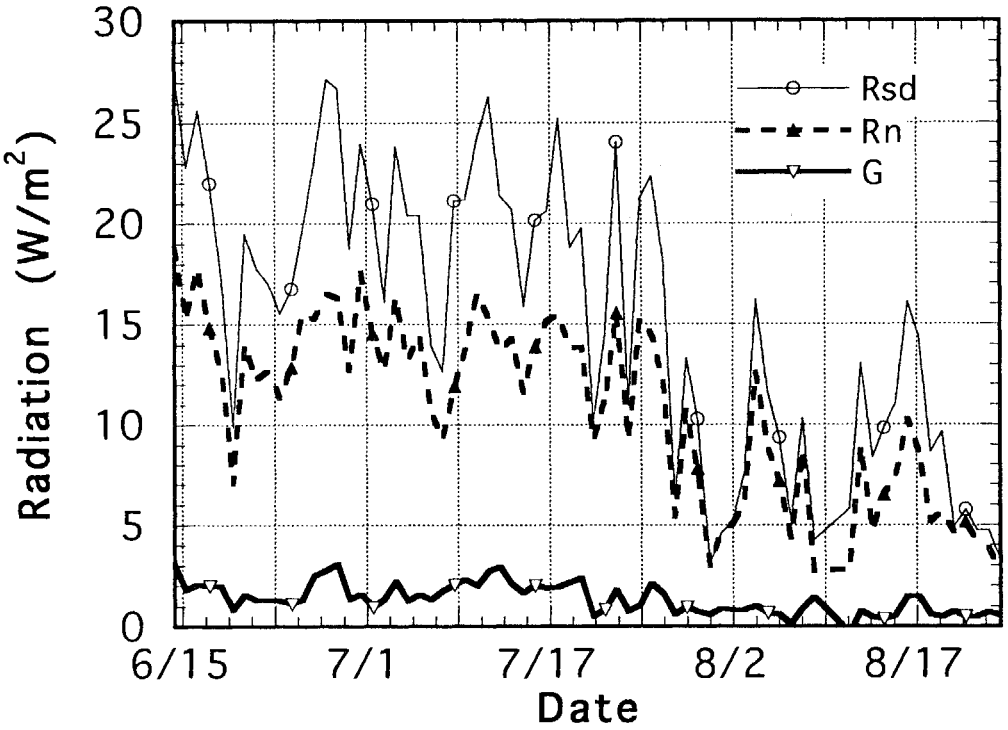


Fig. 7 Variations of daily fluxes of solar radiation, net radiation and soil heat over the Arctic dry tundra at the IBP site during the observation period.

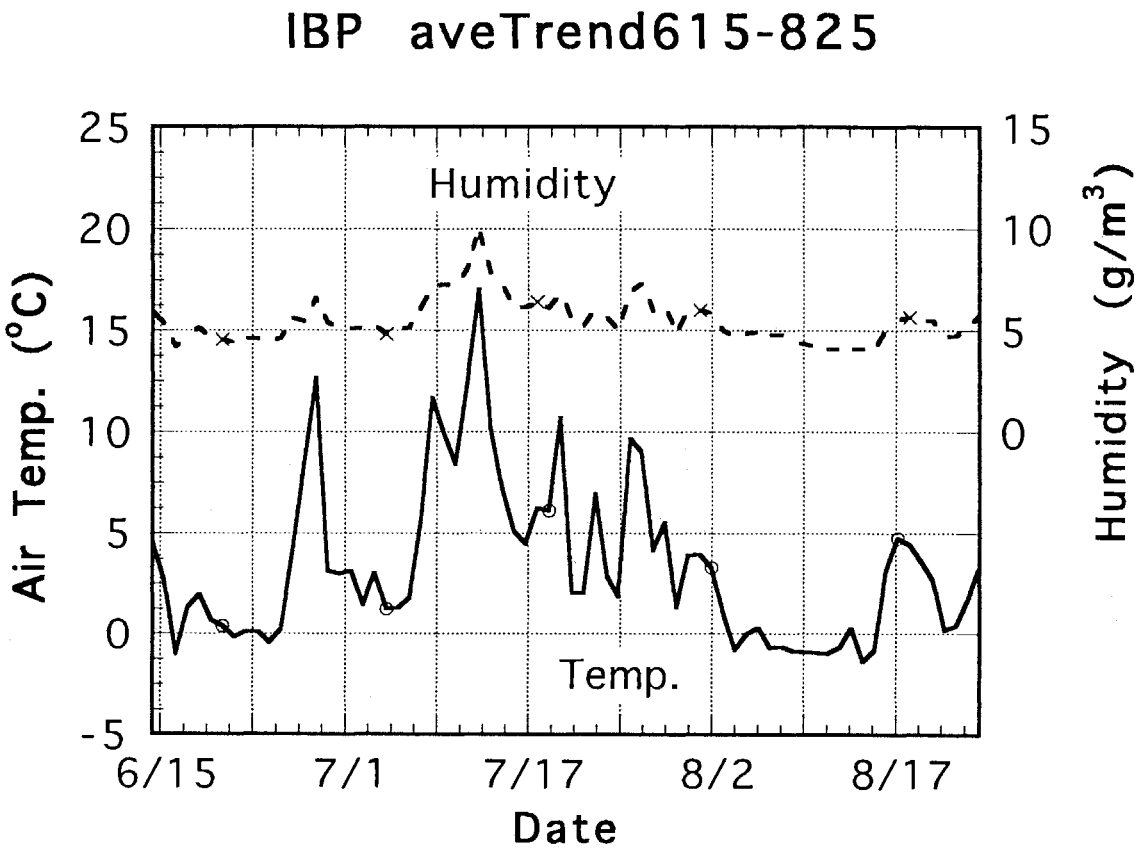


Fig. 8 Variations of daily mean temperature *Ta*, daily mean absolute humidity *AH* over the Arctic dry tundra of the IBP site.

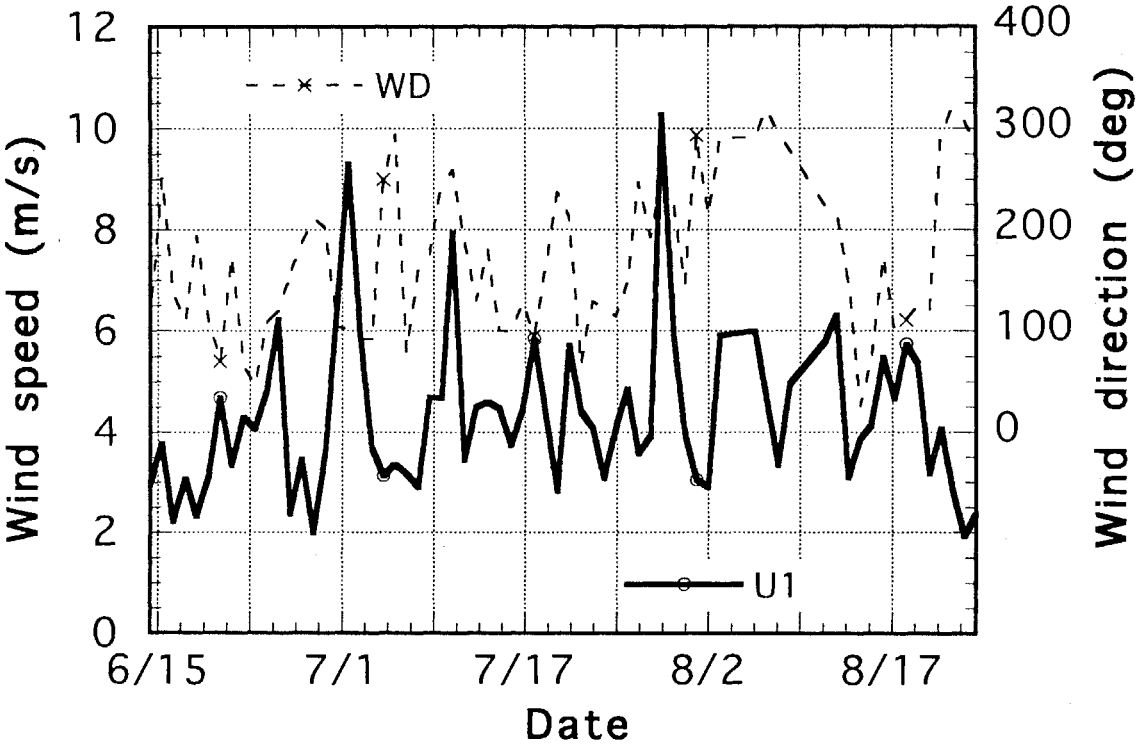


Fig. 9 Variations of daily mean wind speed U_1 (4.7m in height) and wind direction at the IBP site.

6. Data tables

Data are listed as an every 30 minute average except for the background CO_2 concentration, B-CO2. The dividing points of the averagings are 10 and 40 minutes, therefore the data with a time label of 00 were averaged between 41 minutes to 10 minutes of each hour. Only the background CO_2 concentrations listed with a time label of 00 were averaged from 01 to 60 minutes of each hour. The symbols are shown as follows:

Ta1	air temperature (℃) at the highest level of measurement
Ta2	air temperature (℃) at the middle level of measurement
Ta3	air temperature (℃) at the lowest level of measurement
AH1	absolute humidity (g/m^3) of the air at the highest level
AH2	absolute humidity (g/m^3) of the air at the middle level
AH3	absolute humidity (g/m^3) of the air at the lowest level
RH1	relative humidity (%) of the air at the highest level
RH2	relative humidity (%) of the air at the middle level
RH3	relative humidity (%) of the air at the highest level
Ts1	soil temperature (℃) at 1 cm depth below the surface
Ts2	soil temperature (℃) at 5 cm depth below the surface
Ts3	soil temperature (℃) at 10 cm depth below the surface
Ts4	soil temperature (℃) at 20 cm depth below the surface
Rsd	solar radiation (W/m^2) (downward)
Rsu	reflection of solar radiation (W/m^2) (upward)
Rn	net radiation (W/m^2)
G	soil heat flux (W/m^2)
UVb	ultra violet radiation (W/m^2)
PAR	photosynthetic active radiation ($\mu E/sm^2$)
Albedo	Albedo = Rsu / Rsd
U1	wind speed (m/s) at the top measurement height
U3	wind speed (m/s) at the middle level
U5	wind speed (m/s) at the lowest measurement height

WD	wind direction (deg) specified from 0 to 360 degrees with clockwise rotation from north
z_0	roughness parameter (roughness length) (cm) over the tundra
u_*	friction velocity (m/s) over the tundra
Ri	Richardson number
Df	diffusion velocity (cm/s) over the tundra
CO2	CO_2 concentration (ppm) over the tundra (at the same height of Ta1)
B-CO2	Background CO_2 concentration (ppm) measured by CMDL/NOAA.
	A mark shown in this column is represented in section 4.1.

7. Acknowledgments

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Symbols

Time	Alaska Standard Time (AKST) which is 8 hours later than GMT.
Ta1	air temperature (°C) at the highest level of measurement
AH1	absolute humidity (g/m^3) of the air at the highest level
RH1	relative humidity (%) of the air at the highest level
Ta2	air temperature (°C) at the middle level of measurement
AH2	absolute humidity (g/m^3) of the air at the middle level
RH2	relative humidity (%) of the air at the middle level
Ta3	air temperature (°C) at the lowest level of measurement
AH3	absolute humidity (g/m^3) of the air at the lowest level
RH3	relative humidity (%) of the air at the highest level
Ts1	soil temperature (°C) at 1 cm depth below the surface
Ts2	soil temperature (°C) at 5 cm depth below the surface
Ts3	soil temperature (°C) at 10 cm depth below the surface
Ts4	soil temperature (°C) at 20 cm depth below the surface
Rsd	solar radiation (W/m^2) (downward)
Rsu	reflection of solar radiation (W/m^2) (upward)
Rn	net radiation (W/m^2)
G	soil heat flux (W/m^2)
UVb	ultra violet radiation (W/m^2)
PAR	photosynthetic active radiation ($\mu E/sm^2$)
Albedo	Albedo = Rsu / Rsd
U1	wind speed (m/s) at the top measurement height
U3	wind speed (m/s) at the middle level
U5	wind speed (m/s) at the lowest measurement height
WD	wind direction (deg) specified from 0 to 360 degrees with clockwise rotation from north
z_0	roughness parameter (roughness length) (cm) over the tundra
u_*	friction velocity (m/s) over the tundra
Ri	Richardson number
Df	diffusion velocity (cm/s) over the tundra
CO2	CO_2 concentration (ppm) over the tundra (at the same height of Ta1)
B-CO2	Background CO_2 concentration (ppm) measured by CMDL/NOAA. A mark shown in this column is represented in section 4.1.

Central Marsh July 20

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	6.0	6.6	90.8	6.0	6.7	92.1	6.1	6.8	93.3	9.2	6.1	3.0	0.0	21.8	7.6
030	6.5	6.8	90.6	6.6	6.9	91.5	6.7	7.0	92.5	9.4	5.4	2.9	0.1	21.6	8.0
100	6.8	6.8	88.9	6.8	6.9	91.0	6.8	7.0	92.0	9.2	5.2	2.6	0.0	19.6	7.3
130	6.8	6.8	89.1	6.8	6.9	90.9	6.8	7.0	92.2	9.0	5.1	2.5	0.1	17.8	7.1
200	6.7	6.8	90.3	6.7	6.9	91.5	6.7	7.0	92.3	8.9	4.7	2.7	0.0	17.6	7.0
230	6.4	6.9	92.9	6.4	7.0	94.1	6.4	7.1	94.8	8.6	4.9	2.4	0.0	16.1	6.6
300	6.8	7.1	93.2	6.8	7.2	94.6	6.8	7.2	94.9	8.4	4.9	2.7	0.1	15.1	6.8
330	6.9	7.1	93.1	6.9	7.2	94.5	6.8	7.3	95.7	8.4	5.0	2.6	0.0	19.6	8.8
400	6.2	7.0	95.4	6.3	7.1	96.4	6.2	7.1	97.1	8.4	5.0	2.5	0.0	39.0	12.6
430	5.8	6.9	96.4	5.8	7.0	98.0	5.6	7.0	98.7	8.0	5.2	2.7	0.1	43.8	11.8
500	5.9	6.9	95.8	5.9	7.1	97.9	5.9	7.1	98.6	8.2	4.9	2.2	0.1	37.1	10.2
530	6.6	7.1	94.7	6.6	7.3	96.9	6.6	7.3	97.6	7.9	4.9	2.2	0.0	36.9	10.2
600	7.1	7.4	95.3	7.1	7.5	96.2	7.2	7.5	96.7	8.1	4.4	2.3	0.0	35.9	9.8
630	7.5	7.6	94.6	7.6	7.7	95.7	7.6	7.7	96.2	7.7	4.5	2.4	0.0	50.3	12.1
700	7.9	7.7	93.7	8.0	7.8	94.2	8.1	7.9	94.9	7.8	4.4	2.3	0.0	60.4	13.4
730	8.0	7.9	95.3	8.1	8.0	96.2	8.0	7.9	96.2	8.1	4.3	2.1	0.0	59.5	12.8
800	8.3	8.1	96.0	8.4	8.2	96.8	8.5	8.2	96.9	7.7	4.3	2.3	0.0	85.3	18.0
830	9.3	8.3	92.7	9.4	8.5	94.0	9.6	8.5	93.7	7.7	4.3	2.4	0.0	119.0	24.4
900	10.3	8.3	87.1	10.4	8.5	88.3	10.6	8.6	88.9	8.0	4.4	2.4	0.0	145.6	28.6
930	11.4	7.5	72.9	11.5	7.6	74.3	11.6	7.9	76.2	8.2	4.3	2.4	0.1	179.1	34.7
1000	11.3	8.1	79.4	11.4	8.2	80.1	11.6	8.3	80.6	8.2	5.1	2.0	0.1	194.6	37.3
1030	11.2	8.4	83.4	11.4	8.6	83.9	11.9	8.8	83.1	9.0	4.3	2.1	0.1	311.9	61.0
1100	11.3	8.5	83.5	11.5	8.7	84.3	12.1	8.9	83.2	9.0	5.3	2.2	0.0	265.5	52.0
1130	12.3	7.7	71.5	12.6	7.9	71.7	13.5	8.3	71.1	9.6	4.9	2.1	0.0	462.8	93.9
1200	13.6	6.8	58.3	13.9	7.0	58.3	14.6	7.4	59.5	9.5	6.1	1.9	0.0	416.9	81.8
1230	14.2	6.6	54.2	14.5	6.7	53.6	15.3	7.2	55.1	10.2	5.9	2.7	0.0	473.8	92.5
1300	15.1	6.5	50.3	15.5	6.5	49.7	16.6	7.2	50.9	10.5	6.3	2.0	-0.1	601.2	116.1
1330	15.1	6.2	48.2	15.4	6.3	47.8	16.4	6.9	49.8	10.9	7.1	2.2	-0.2	503.4	95.2
1400	14.9	6.1	48.3	15.4	6.2	47.6	16.4	6.9	49.4	11.1	7.5	2.6	-0.1	545.6	103.8
1430	15.4	7.3	55.8	15.9	7.4	55.0	16.9	8.0	55.6	11.7	7.4	2.9	-0.1	556.0	104.5
1500	13.9	8.1	67.5	14.4	8.2	66.8	15.5	8.7	65.9	12.4	7.5	2.8	0.0	582.4	109.7
1530	13.5	7.8	67.1	13.8	8.0	67.4	14.6	8.5	68.0	13.0	7.9	2.9	0.0	396.9	74.5
1600	13.6	8.7	74.0	13.9	8.9	74.5	14.7	9.3	73.8	13.3	8.4	2.8	0.0	408.5	76.9
1630	14.4	8.9	72.3	14.7	9.1	72.7	15.6	9.5	71.5	13.6	8.7	3.1	0.0	494.8	95.7
1700	14.8	9.2	72.8	15.1	9.4	73.1	15.9	9.7	72.4	14.2	8.3	3.5	0.0	378.6	75.2
1730	15.8	9.2	68.8	16.0	9.4	69.2	16.8	9.8	68.7	14.6	8.5	3.1	0.1	352.5	69.2
1800	17.2	8.1	55.4	17.3	8.2	55.9	17.7	8.7	57.9	14.5	9.4	3.1	0.0	240.1	47.1
1830	15.5	7.1	54.2	15.6	7.2	54.2	15.7	7.6	57.0	14.2	9.1	3.8	-0.1	157.4	31.1
1900	13.5	7.3	62.8	13.5	7.4	63.2	13.7	7.7	65.2	13.6	8.7	3.9	-0.1	131.4	25.8
1930	11.9	8.1	76.5	12.1	8.2	77.1	12.6	8.5	76.9	12.8	9.2	3.5	0.0	257.5	54.9
2000	12.9	7.6	67.6	13.1	7.8	68.1	13.7	8.1	68.6	12.5	9.1	4.1	0.1	316.8	70.2
2030	13.1	7.5	66.1	13.2	7.7	67.0	13.6	8.0	67.7	12.7	8.4	4.0	0.1	232.7	49.1
2100	9.1	7.4	83.6	9.2	7.5	84.2	9.6	7.7	84.0	12.3	8.4	4.0	0.0	272.0	67.7
2130	6.3	6.9	93.7	6.5	6.7	89.8	6.9	7.0	91.0	11.2	8.8	4.3	0.1	207.6	56.7
2200	5.4	6.6	95.8	5.6	6.4	90.8	6.0	6.6	90.4	11.1	7.8	4.6	0.1	165.8	46.4
2230	3.7	5.7	92.2	3.9	5.8	92.8	4.1	5.9	93.2	10.0	8.3	4.2	0.0	73.9	17.7
2300	2.7	5.7	97.4	2.8	5.7	98.1	3.0	5.9	99.1	9.7	7.4	4.2	0.0	43.2	11.9
2330	2.1	5.6	100.0	2.3	5.6	100.0	2.4	5.7	100.0	9.2	7.0	4.4	0.0	46.5	12.5
Max	17.2	9.2	100.0	17.3	9.4	100.0	17.7	9.8	100.0	14.6	9.4	4.6	0.1	601.2	116.1
Min	2.1	5.6	48.2	2.3	5.6	47.6	2.4	5.7	49.4	7.7	4.3	1.9	-0.2	15.1	6.6
Ave	10.0	7.4	80.0	10.2	7.5	80.5	10.5	7.7	81.0	10.2	6.4	2.9	0.0	211.1	43.5
Sum														18.2	3.8

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
6.9	2.8		27.8	0.35	1.60	1.23	0.75	284		0.13	-0.010	2.73	354.0	352.3 V
8.4	5.6		24.2	0.37	1.59	1.09	0.67	128		0.14	-0.010	3.29	355.0	
7.3	8.3		19.0	0.37	0.70	0.46	0.32	239		0.08	0.006	1.32	356.4	353.5 V
6.9	9.0		14.1	0.40	0.55	0.34	0.27	318		0.08	-0.010	1.15	358.8	
6.7	9.3		12.9	0.40	1.17	0.95	0.53	314		0.10	-0.010	1.85	356.5	352.9 V
5.8	8.4		9.9	0.41	0.44	0.33	0.28	289		0.08	-0.070	1.16	355.5	
3.7	9.3		6.2	0.45	2.47	1.75	1.03	182		0.20	0.000	4.00	358.5	356.6 V
2.3	8.8		16.2	0.45	1.34	0.90	0.47	239		0.13	0.010	2.45	361.8	
9.8	9.8		53.1	0.32	2.06	1.41	0.91	164		0.16	0.000	3.05	353.5	351.7 V
1.1	2.7		78.4	0.27	0.43	0.29	0.25	253		0.09	0.438	0.52	353.3	
10.3	7.8		61.1	0.28	0.58	0.42	0.25	205		0.08	-0.010	1.13	354.0	354.2 V
17.9	17.7		59.6	0.28	0.98	0.53	0.26	214		0.13	-0.010	2.14	353.7	
18.3	20.8		59.7	0.27	1.20	0.68	0.33	219		0.13	-0.010	2.56	356.8	359.4 V
23.9	25.4		96.1	0.24	0.49	0.38	0.27	237		0.08	-0.100	1.79	358.9	
25.9	28.9		127.8	0.22	1.01	0.63	0.32	213		0.12	-0.020	2.53	358.0	360.8 V
10.3	18.1		136.3	0.22	1.09	0.66	0.26	201		0.14	0.005	2.42	359.1	
40.1	32.7		189.4	0.21	1.63	1.00	0.49	232		0.16	-0.010	3.49	358.8	C
67.5	54.1		267.0	0.21	2.23	1.50	0.90	230		0.18	-0.020	3.68	356.8	
78.6	64.6		336.2	0.20	2.64	1.97	1.02	244	1.32	0.18	-0.010	2.95	352.0	C
98.7	69.8		422.7	0.19	3.63	2.84	1.52	256	0.80	0.24	0.000	3.72	348.8	
109.2	74.3		465.8	0.19	3.37	2.68	1.57	268	0.47	0.20	-0.010	3.40	349.8	C
183.9	94.3		748.0	0.20	3.48	2.62	1.75	270	0.29	0.19	-0.030	3.53	349.8	
149.0	96.5		652.3	0.20	3.46	2.71	1.69	263	0.33	0.20	-0.020	3.69	350.1	C
272.1	119.0		1105.0	0.20	3.57	2.88	1.57	264	0.63	0.22	-0.030	4.42	349.3	
251.1	123.4		1011.0	0.20	3.47	2.65	1.56	264	0.57	0.21	-0.030	4.18	349.8	C
271.9	115.9		1157.0	0.20	3.10	2.50	1.54	267	0.34	0.18	-0.040	3.98	350.4	
357.3	165.0		1456.0	0.19	2.87	2.25	1.42	272	0.37	0.17	-0.060	4.35	350.4	C
301.3	146.9		1227.0	0.19	3.29	2.68	1.71	280	0.22	0.18	-0.050	4.07	350.5	
326.0	144.1		1333.0	0.19	3.32	2.63	1.72	275	0.23	0.18	-0.050	4.28	350.5	C
332.8	167.1		1351.0	0.19	2.29	1.88	1.19	193	0.24	0.13	-0.100	4.10	350.2	
359.7	168.4		1389.0	0.19	3.56	2.69	1.85	98	0.26	0.19	-0.050	4.40	349.6	351.5 V
233.9	105.1		987.6	0.19	3.39	2.43	1.52	101	1.02	0.22	-0.030	4.84	348.1	
241.8	119.5		1001.0	0.19	3.24	2.31	1.58	105	1.48	0.22	-0.050	6.40	345.4	349.6 V
304.9	127.4		1196.0	0.19	3.68	2.66	1.79	110	0.43	0.21	-0.030	4.26	344.1	
242.8	118.2		878.4	0.20	3.42	2.32	1.64	114	1.86	0.25	-0.040	6.48	343.2	348.3 V
221.0	121.9		845.8	0.20	2.39	1.80	1.16	119	0.79	0.15	-0.050	4.19	342.1	
141.7	90.3		595.2	0.20	2.39	1.82	1.23	205	0.28	0.13	-0.040	2.78	342.1	347.4 V
87.1	47.2		377.5	0.20	3.84	2.85	1.84	294	0.41	0.22	-0.010	3.23	342.6	
75.7	34.9		320.2	0.20	3.76	2.79	1.91	286	0.57	0.22	-0.010	4.07	345.2	353.1 V
128.1	48.3		589.5	0.21	3.82	2.90	1.75	272	0.53	0.23	-0.010	4.03	348.3	
169.2	59.8		731.9	0.22	4.10	3.08	1.84	265	0.58	0.25	-0.020	4.27	344.2	349.1 V
139.9	56.1		548.3	0.21	5.42	3.95	2.59	263	0.42	0.30	-0.010	4.31	342.7	
109.1	18.2		613.1	0.25	6.57	5.10	3.22	288	0.32	0.37	-0.010	5.57	344.7	350.9 D
87.7	-8.8		473.5	0.27	5.76	4.49	2.95	305	0.24	0.31	-0.010	4.87	344.6	
61.3	-11.5		376.2	0.28	4.21	3.21	2.21	296	0.26	0.23	-0.020	4.11	343.7	349.3 V
34.1	-13.5		156.6	0.24	5.52	4.30	2.77	320	0.26	0.29	-0.010	4.20	343.4	
19.9	-20.4		76.3	0.28	5.29	4.12	2.56	332	0.34	0.30	0.000	4.51	342.0	347.0 D
21.0	-18.6		80.6	0.27	4.79	3.65	2.27	328	0.44	0.28	0.000	4.43	341.0	
359.7	168.4		1456.0	0.45	6.57	5.10	3.22	332	1.86	0.37	0.438	6.48	361.8	360.8
1.1	-20.4		6.2	0.19	0.43	0.29	0.25	98	0.22	0.08	-0.100	0.52	341.0	347.0
118.4	56.3		495.0	0.25	2.82	2.11	1.32	237	0.54	0.18	-0.014	3.52	350.4	352.2
10.2	4.9													

Central Marsh July 21

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	1.6	5.4	99.8	1.7	5.4	99.9	1.8	5.5	100.0	8.6	6.9	4.4	0.0	32.0	9.6
030	1.4	5.3	99.1	1.5	5.3	99.4	1.6	5.4	100.0	8.2	6.7	4.0	0.0	32.1	9.7
100	1.3	5.2	97.6	1.3	5.3	99.7	1.4	5.4	100.0	7.6	6.8	3.5	0.1	26.4	8.6
130	1.0	5.1	98.9	1.1	5.2	100.0	1.1	5.3	100.0	7.3	6.5	4.0	0.1	22.0	7.8
200	1.0	5.1	99.7	1.1	5.2	99.5	1.1	5.2	100.0	7.0	5.9	4.2	0.1	19.6	7.3
230	0.9	5.2	100.0	1.1	5.2	99.6	1.1	5.2	100.0	7.0	5.0	3.8	0.1	19.5	7.3
300	1.0	5.0	96.1	0.9	5.1	99.9	0.9	5.2	100.0	6.2	6.1	3.1	0.1	19.3	7.3
330	0.7	5.2	100.0	0.9	5.1	99.6	0.9	5.2	100.0	6.4	4.5	4.3	0.1	20.7	7.5
400	0.8	4.9	96.2	0.8	5.1	99.4	0.8	5.2	100.0	5.9	5.5	2.7	0.1	21.8	7.7
430	0.7	5.2	100.0	0.9	5.1	99.0	0.9	5.2	100.0	6.2	3.9	3.6	0.1	24.5	8.1
500	0.7	4.9	96.4	0.7	5.0	99.2	0.7	5.1	100.0	5.3	5.1	3.0	0.1	28.1	8.8
530	0.6	5.0	100.0	0.8	5.0	99.1	0.8	5.1	100.0	5.9	3.5	3.0	0.1	33.5	9.7
600	0.6	4.9	97.6	0.6	5.0	99.3	0.7	5.1	100.0	5.2	4.4	3.3	0.1	42.6	11.3
630	0.6	4.9	97.3	0.6	5.0	99.2	0.7	5.1	100.0	5.4	4.0	2.1	0.1	48.0	12.2
700	0.5	5.0	100.0	0.7	5.0	99.0	0.7	5.1	100.0	5.2	3.4	3.6	0.0	57.1	13.9
730	0.6	4.9	96.5	0.7	5.0	98.8	0.8	5.2	100.0	5.0	4.2	1.9	0.1	72.6	16.6
800	0.6	5.1	100.0	0.8	5.0	98.7	0.9	5.2	100.0	5.5	2.9	2.7	0.0	88.0	19.3
830	0.7	5.0	98.0	0.8	5.0	98.4	0.9	5.2	100.0	5.0	3.8	3.0	0.0	97.5	21.0
900	0.7	5.0	97.8	0.8	5.1	98.9	0.9	5.2	100.0	5.3	3.5	1.7	0.0	99.9	21.4
930	0.6	5.1	100.0	0.9	5.1	99.1	1.0	5.2	100.0	5.4	3.0	3.1	0.0	105.0	22.5
1000	0.7	4.9	96.7	0.8	5.1	99.8	0.9	5.2	100.0	5.0	4.0	1.8	0.0	109.9	23.5
1030	0.6	5.1	100.0	0.9	5.1	98.4	1.1	5.2	100.0	5.7	2.6	2.4	0.0	132.9	27.4
1100	0.8	5.0	97.8	1.0	5.1	98.5	1.2	5.3	100.0	5.1	3.7	2.6	0.0	133.2	27.4
1130	0.8	5.0	98.3	1.0	5.1	99.0	1.3	5.3	100.0	5.5	3.4	1.4	0.0	153.7	31.4
1200	1.1	5.3	100.0	1.5	5.3	98.7	1.8	5.5	100.0	5.9	2.5	2.6	0.0	200.6	40.0
1230	1.4	5.1	96.8	1.6	5.3	99.0	1.9	5.6	100.0	5.6	4.0	1.7	0.0	228.5	45.4
1300	1.2	5.3	100.0	1.5	5.3	99.0	1.8	5.5	100.0	6.5	3.0	1.6	0.0	218.1	43.4
1330	1.3	5.3	99.8	1.6	5.3	98.9	2.0	5.6	100.0	6.3	3.6	2.5	-0.1	246.2	49.1
1400	1.3	5.2	99.1	1.6	5.3	98.4	1.9	5.5	100.0	6.9	3.2	1.6	-0.1	230.9	46.6
1430	1.3	5.1	96.5	1.5	5.3	98.7	1.9	5.5	100.0	6.6	4.2	1.2	-0.1	237.3	48.1
1500	1.4	5.2	97.9	1.6	5.3	98.2	2.0	5.5	100.0	6.8	4.1	2.0	-0.1	247.3	50.2
1530	1.5	5.3	99.1	1.9	5.4	98.5	2.3	5.7	100.0	7.2	3.8	1.9	-0.1	279.8	56.6
1600	1.9	5.4	98.6	2.3	5.5	98.0	2.6	5.8	100.0	7.4	4.0	1.7	-0.1	276.0	55.9
1630	2.0	5.4	98.4	2.3	5.6	98.5	2.7	5.8	99.9	7.7	3.9	1.8	-0.1	256.5	52.4
1700	1.9	5.4	97.8	2.2	5.5	98.6	2.5	5.7	99.8	7.7	4.3	1.6	-0.1	236.8	48.5
1730	2.4	5.6	97.6	2.7	5.7	98.5	3.0	5.9	100.0	7.7	4.4	1.5	-0.1	247.9	50.6
1800	2.5	5.6	98.1	2.8	5.8	98.9	3.1	6.0	99.7	7.8	4.4	1.7	-0.1	231.2	46.9
1830	2.9	5.9	99.4	3.2	6.0	98.9	3.6	6.1	98.8	8.0	4.0	1.9	-0.1	234.0	47.4
1900	2.6	5.7	99.0	2.8	5.7	98.2	3.1	5.9	98.9	7.9	4.3	1.7	-0.1	163.5	33.9
1930	2.8	5.8	99.0	3.0	5.9	99.2	3.3	6.0	99.4	7.8	4.3	1.6	-0.1	159.7	33.7
2000	2.6	5.7	99.0	2.9	5.8	98.8	3.1	5.9	99.5	7.7	4.3	1.5	-0.1	142.1	30.4
2030	2.5	5.7	98.9	2.7	5.7	99.1	2.8	5.9	100.0	7.3	4.5	1.5	-0.1	121.1	26.2
2100	2.4	5.6	98.9	2.6	5.7	99.2	2.7	5.8	100.0	7.0	4.5	1.5	-0.1	113.1	24.7
2130	2.2	5.6	99.1	2.4	5.7	99.8	2.5	5.8	100.0	6.8	4.4	1.7	-0.1	86.4	19.8
2200	1.9	5.5	99.7	2.0	5.5	99.5	2.2	5.6	100.0	6.5	4.2	2.1	-0.1	82.7	19.1
2230	1.8	5.5	100.0	2.0	5.5	99.2	2.1	5.6	100.0	6.5	3.7	2.1	-0.1	71.6	17.1
2300	1.5	5.4	100.0	1.7	5.4	99.5	1.8	5.5	100.0	6.3	3.5	1.7	-0.1	59.0	14.9
2330	1.1	5.1	98.3	1.2	5.2	99.8	1.3	5.3	100.0	5.9	3.9	1.1	-0.1	49.5	13.0
Max	2.9	5.9	100.0	3.2	6.0	100.0	3.6	6.1	100.0	8.6	6.9	4.4	0.1	279.8	56.6
Min	0.5	4.9	96.1	0.6	5.0	98.0	0.7	5.1	98.8	5.0	2.5	1.1	-0.1	19.3	7.3
Ave	1.4	5.2	98.6	1.5	5.3	99.1	1.7	5.5	99.9	6.5	4.3	2.4	0.0	122.1	26.3
Sum														10.5	2.3

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm^2	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
12.0	-24.2		48.6	0.30	5.24	3.94	2.45	328	0.48	0.31	0.000	4.75	340.4	345.8	D
11.7	-24.1		45.6	0.30	5.43	3.90	2.57	322	0.57	0.32	0.000	4.85	339.8		
8.1	-24.7		32.9	0.33	5.91	4.22	2.56	321	1.72	0.42	0.000	7.51	339.8	345.4	A
5.3	-25.2		23.1	0.35	5.63	4.17	2.64	324	0.46	0.32	0.000	4.65	339.7		
3.9	-25.1		16.8	0.37	6.33	4.60	2.83	327	1.09	0.42	0.000	6.84	339.8	345.6	A
3.9	-23.4		16.2	0.38	5.91	4.46	2.82	327	0.52	0.34	0.000	5.11	339.9		
3.8	-21.2		15.8	0.38	5.28	3.85	2.45	327	0.51	0.31	0.000	4.36	340.0	345.7	A
4.7	-20.2		19.3	0.36	5.40	3.81	2.45	325	1.62	0.38	0.000	7.09	340.3		
5.3	-18.7		21.2	0.36	4.96	3.65	2.30	321	1.19	0.34	0.000	5.90	340.4	346.0	D
7.2	-16.6		27.5	0.33	4.97	3.75	2.22	323	0.57	0.30	0.000	4.53	340.7		
9.5	-15.2		35.5	0.31	5.02	3.71	2.28	321	0.54	0.30	0.000	4.27	340.7	346.4	D
13.3	-13.3		47.9	0.29	5.21	3.78	2.33	322	1.06	0.35	0.000	5.85	341.0		
19.4	-10.0		67.9	0.27	5.38	3.89	2.37	319	0.97	0.35	0.000	5.38	341.2	346.8	A
23.1	-7.9		80.8	0.26	5.23	3.92	2.50	321	0.42	0.30	0.000	4.55	341.4		
29.1	-4.3		101.0	0.24	5.16	3.86	2.54	323	0.34	0.28	0.000	4.20	341.6	347.0	A
39.3	1.0		135.9	0.23	4.96	3.73	2.32	323	0.50	0.29	0.000	4.52	341.4		
49.8	5.9		171.4	0.22	5.06	3.83	2.46	322	0.36	0.28	-0.010	4.31	341.4		I
55.6	9.2		193.0	0.22	5.55	4.16	2.83	318	0.37	0.31	0.000	4.98	341.6		
57.4	9.8		199.3	0.21	5.54	4.18	2.58	325	0.46	0.32	0.000	4.84	341.4	346.9	D
60.5	13.8		212.1	0.21	5.18	3.77	2.42	330	0.52	0.30	-0.010	4.68	341.4		
63.7	12.8		224.8	0.21	5.77	4.26	2.62	331	0.90	0.38	0.000	6.30	341.2	346.5	A
78.5	19.5		279.3	0.21	5.75	4.13	2.39	332	1.09	0.38	0.000	5.99	341.3		
78.7	23.5		281.9	0.21	5.43	4.08	2.45	335	0.76	0.34	0.000	5.51	341.3	346.5	A
92.7	27.5		326.6	0.20	5.37	3.95	2.23	335	0.94	0.35	0.000	5.50	341.3		
122.3	45.3		431.6	0.20	4.47	3.53	2.06	340	0.50	0.27	-0.010	4.69	341.3	346.8	D
140.3	55.3		495.4	0.20	5.05	3.91	2.36	339	0.49	0.30	-0.010	5.12	341.7		
132.3	47.1		474.5	0.20	5.60	4.28	2.60	337	0.48	0.33	-0.010	5.27	342.7	349.5	V
151.3	53.9		536.5	0.20	6.17	4.76	2.67	329	0.68	0.39	-0.010	6.14	344.1		
141.6	47.8		506.2	0.20	6.43	4.93	2.94	292	0.53	0.39	-0.010	6.26	345.5	351.0	D
144.7	48.4		525.9	0.20	6.18	4.56	2.93	151	0.52	0.37	-0.010	5.86	346.1		
151.6	51.7		548.1	0.20	5.82	4.51	2.89	103	0.35	0.33	-0.010	5.54	346.6	351.8	
172.7	63.7		621.1	0.20	5.79	4.52	2.72	83	0.42	0.34	-0.010	5.51	347.3		
171.4	64.4		612.5	0.20	5.71	4.67	2.97	65	0.21	0.30	-0.010	5.11	347.4	351.7	A
158.1	60.8		569.5	0.20	5.49	4.21	2.57	45	0.49	0.33	-0.010	5.55	347.2		
145.0	47.6		523.0	0.21	6.39	4.88	3.23	36	0.31	0.35	-0.010	5.66	347.0	350.6	
154.5	54.7		544.9	0.20	6.18	4.78	2.99	22	0.37	0.35	-0.010	5.37	346.4		
142.9	52.3		510.3	0.20	6.20	4.65	3.05	23	0.48	0.36	-0.010	5.88	346.2	350.4	
143.9	52.6		517.8	0.20	5.83	4.20	2.96	31	0.37	0.33	-0.010	5.15	346.1		
99.3	32.7		359.8	0.21	6.26	4.90	3.21	18	0.24	0.34	-0.010	5.25	346.8	351.0	D
96.6	32.2		345.9	0.21	5.72	4.11	2.75	25	0.53	0.34	-0.010	5.32	347.2		
85.3	28.0		304.9	0.21	5.75	4.53	3.21	25	0.12	0.28	-0.010	4.36	348.0	351.7	D
71.2	20.7		253.3	0.22	6.52	4.64	3.08	18	1.44	0.45	0.000	8.25	348.6		
66.0	16.7		233.5	0.22	6.38	4.83	3.33	24	0.22	0.33	0.000	4.87	348.1	350.3	V
48.6	10.2		172.1	0.23	6.70	4.67	3.30	22	1.44	0.46	0.000	8.72	347.3		
45.9	6.8		163.4	0.23	6.67	5.08	3.52	18	0.71	0.41	0.000	7.89	346.8	349.2	D
38.4	4.2		136.2	0.24	6.60	5.05	3.11	21	0.41	0.37	0.000	5.24	346.3		
30.0	0.8		105.7	0.25	6.31	4.41	3.09	34	0.82	0.40	0.000	6.44	346.8	350.0	D
23.1	-3.4		84.8	0.26	6.19	4.50	2.88	20	1.41	0.43	0.000	7.66	347.5		
172.7	64.4		621.1	0.38	6.70	5.08	3.52	340	1.72	0.46	0.000	8.72	348.6	351.8	
3.8	-25.2		15.8	0.20	4.47	3.53	2.06	18	0.12	0.27	-0.010	4.20	339.7	345.4	
71.1	15.5		254.2	0.25	5.71	4.26	2.71	213	0.66	0.34	-0.004	5.57	343.5	348.4	
6.1	1.3														

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	0.75	5.03	98.9	0.84	5.11	99.9	0.90	5.19	100.0	5.42	4.06	1.74	-0.12	41.3	11.5
030	0.60	5.13	100.0	0.80	5.07	99.4	0.82	5.13	100.0	5.43	3.19	2.34	-0.12	33.4	10.0
100	0.74	5.07	99.9	0.86	5.10	99.5	0.89	5.15	100.0	5.40	2.96	1.40	-0.09	28.3	9.1
130	0.90	5.04	98.1	0.92	5.14	99.9	0.95	5.21	100.0	4.56	3.90	1.40	-0.10	25.7	8.7
200	0.72	5.18	100.0	0.91	5.10	99.1	0.89	5.15	100.0	4.97	2.42	2.25	-0.10	23.6	8.1
230	0.52	4.92	98.2	0.60	4.99	99.1	0.60	5.07	100.0	4.63	3.04	0.73	-0.10	22.8	7.9
300	0.14	4.92	100.0	0.28	4.89	99.3	0.29	4.97	100.0	4.24	2.93	2.19	-0.14	24.2	8.3
330	-0.20	4.79	100.0	-0.04	4.78	99.2	-0.04	4.85	100.0	4.53	2.25	1.15	-0.14	24.5	8.2
400	-0.57	4.59	98.9	-0.49	4.63	99.3	-0.46	4.71	100.0	3.75	3.07	1.59	-0.19	27.0	8.6
430	-0.58	4.69	100.0	-0.40	4.67	99.3	-0.40	4.73	100.0	4.33	1.87	1.06	-0.13	30.9	9.5
500	-0.57	4.65	100.0	-0.43	4.64	99.0	-0.39	4.72	100.0	3.76	2.33	1.91	-0.15	35.6	10.3
530	-0.46	4.53	96.8	-0.43	4.66	99.4	-0.36	4.76	100.0	3.61	2.84	0.60	-0.13	41.6	11.4
600	-0.37	4.79	100.0	-0.15	4.71	98.5	-0.11	4.80	100.0	4.09	1.39	1.69	-0.13	52.5	13.4
630	-0.20	4.70	98.6	-0.09	4.75	99.1	-0.01	4.85	100.0	3.45	2.48	1.51	-0.14	60.7	14.9
700	-0.23	4.59	96.6	-0.12	4.71	98.2	-0.02	4.83	100.0	3.77	2.29	0.35	-0.13	77.7	18.0
730	-0.16	4.77	99.9	0.10	4.73	97.3	0.24	4.85	98.7	4.07	1.40	1.76	-0.15	96.3	21.6
800	0.05	4.57	94.3	0.17	4.72	96.5	0.39	4.88	98.3	3.66	2.62	0.79	-0.14	115.2	24.9
830	0.23	4.80	97.8	0.45	4.85	97.3	0.65	5.00	99.1	4.36	1.65	0.66	-0.14	114.9	25.1
900	0.29	4.81	97.6	0.48	4.86	97.5	0.75	5.01	98.6	4.12	2.04	1.76	-0.16	127.7	27.4
930	0.48	4.72	94.6	0.67	4.91	97.1	1.00	5.11	98.8	4.53	2.15	0.31	-0.13	184.2	38.0
1000	0.59	4.78	95.1	0.93	4.85	94.2	1.38	5.10	96.0	4.86	1.77	1.59	-0.18	261.5	53.4
1030	0.86	4.66	90.9	1.06	4.87	93.7	1.61	5.16	95.7	4.86	2.91	0.77	-0.21	245.4	52.7
1100	0.82	4.72	92.3	1.17	4.86	92.9	1.73	5.09	93.6	5.77	2.06	0.67	-0.20	275.6	57.1
1130	1.13	4.84	92.8	1.55	4.93	91.7	2.23	5.20	92.4	5.76	2.46	1.43	-0.35	338.8	71.2
1200	1.35	4.67	88.1	1.75	4.83	88.8	2.62	5.13	88.7	6.39	3.16	0.41	-0.14	407.0	86.2
1230	1.12	4.75	91.0	1.51	4.84	90.4	2.37	5.11	90.0	7.04	2.62	1.78	-0.20	358.3	74.6
1300	1.35	4.65	87.8	1.81	4.82	88.2	2.87	5.14	87.4	7.23	3.63	0.46	-0.18	470.5	95.6
1330	1.49	4.75	88.8	1.96	4.89	88.6	3.04	5.16	86.9	7.57	3.62	1.75	-0.24	443.3	90.5
1400	1.50	4.72	88.2	2.03	4.91	88.4	3.15	5.21	87.0	8.29	3.95	0.61	-0.20	450.8	89.4
1430	1.62	4.80	89.0	2.14	4.97	88.9	3.27	5.29	87.7	8.32	4.72	1.19	-0.23	492.8	97.7
1500	2.16	4.81	85.9	2.75	4.94	84.8	4.00	5.27	83.2	9.10	4.19	1.61	-0.17	593.0	116.2
1530	2.06	4.79	86.1	2.52	4.96	86.5	3.77	5.27	84.5	9.75	4.45	1.10	-0.17	494.6	97.7
1600	2.01	4.82	87.0	2.48	4.96	86.8	3.66	5.31	85.7	9.85	5.06	1.10	-0.11	497.2	98.0
1630	2.19	4.93	87.8	2.64	5.06	87.4	3.70	5.34	85.9	10.15	5.29	1.25	-0.11	447.7	89.2
1700	2.21	4.97	88.5	2.76	5.10	87.5	3.75	5.38	86.3	10.18	5.71	1.47	-0.08	432.8	87.4
1730	2.40	5.04	88.5	2.81	5.15	88.0	3.76	5.43	87.1	10.42	5.51	1.64	-0.05	394.3	80.4
1800	2.52	5.03	87.7	2.93	5.14	87.2	3.77	5.44	87.2	10.41	5.50	1.79	-0.05	357.8	74.2
1830	2.54	5.05	88.0	2.93	5.15	87.3	3.67	5.39	87.1	10.43	5.48	1.90	-0.04	283.0	59.2
1900	2.54	5.07	88.2	2.86	5.13	87.4	3.50	5.32	86.8	10.27	5.31	2.10	-0.04	255.7	53.8
1930	2.40	5.08	89.3	2.71	5.12	88.1	3.27	5.29	87.7	9.92	5.42	1.94	-0.02	193.3	41.0
2000	2.29	5.05	89.4	2.56	5.11	88.9	3.04	5.29	89.1	9.46	5.59	1.89	-0.01	170.3	36.7
2030	2.20	4.93	87.8	2.43	5.04	88.4	2.87	5.22	88.8	8.93	5.88	1.64	-0.01	162.9	35.2
2100	1.96	5.00	90.5	2.18	5.04	89.8	2.50	5.19	90.6	8.61	5.68	2.28	0.00	122.6	27.5
2130	1.65	4.99	92.2	1.90	5.00	90.9	2.20	5.12	91.3	8.26	5.35	2.54	0.01	114.5	26.0
2200	1.59	4.97	92.3	1.81	5.00	91.5	2.08	5.13	92.2	8.02	5.04	2.57	0.00	93.0	21.8
2230	1.32	5.06	95.6	1.55	5.08	94.7	1.75	5.23	96.0	7.72	5.03	2.00	0.02	83.1	20.0
2300	1.44	5.05	94.7	1.61	5.12	94.9	1.77	5.24	96.0	7.00	5.65	2.12	0.01	74.7	18.5
2330	1.65	5.16	95.3	1.81	5.18	94.7	1.92	5.28	95.9	6.93	4.87	2.96	0.00	54.2	14.1
Max	2.54	5.18	100.0	2.93	5.18	99.9	4.00	5.44	100.0	10.43	5.88	2.96	0.02	593.0	116.2
Min	-0.58	4.53	85.9	-0.49	4.63	84.8	-0.46	4.71	83.2	3.45	1.39	0.31	-0.35	22.8	7.9
Ave	1.06	4.86	93.5	1.34	4.94	93.4	1.79	5.12	93.8	6.63	3.68	1.49	-0.12	203.3	42.9
Sum														17.6	3.7

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* cm/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
17.6	-7.2		63.6	0.28	6.05	4.41	2.88	25	0.43	0.35	-0.002	4.88	347.8	350.3
12.3	-9.2		46.4	0.30	6.25	4.72	3.14	29	0.28	0.34	-0.003	4.64	348.2	
9.0	-9.7		34.4	0.32	6.19	4.33	2.88	26	1.79	0.44	-0.002	7.76	348.4	350.4
7.9	-7.6		27.1	0.34	5.40	3.88	2.62	22	1.52	0.38	-0.001	7.28	348.6	
5.8	-8.1		23.0	0.35	5.63	4.00	2.66	21	1.01	0.36	-0.003	5.75	348.6	350.0 D
5.0	-9.2		21.8	0.35	5.80	4.10	2.70	17	1.08	0.38	-0.001	6.40	348.3	
5.3	-10.2		24.0	0.34	5.54	3.98	2.73	20	1.34	0.37	-0.003	6.82	348.2	349.7 D
5.5	-10.9		26.2	0.34	5.23	3.79	2.33	24	1.10	0.35	-0.002	5.87	348.1	
6.9	-11.9		31.7	0.32	5.13	3.94	2.78	30	0.22	0.27	-0.002	4.15	347.5	349.2 A
9.9	-10.0		40.3	0.31	5.09	3.60	2.51	28	0.85	0.32	-0.004	5.35	347.6	
13.3	-7.6		51.3	0.29	5.00	3.49	2.33	27	1.98	0.37	-0.003	7.27	347.6	349.2 A
18.1	-4.5		64.5	0.27	4.67	3.41	2.19	26	0.60	0.28	-0.002	4.09	347.4	
24.9	-0.1		89.3	0.26	4.44	3.12	2.14	32	1.55	0.31	-0.006	6.23	347.3	349.1 A
30.9	4.2		107.1	0.25	4.57	3.31	2.23	34	1.00	0.30	-0.004	5.43	347.1	
40.9	8.8		144.2	0.23	4.40	3.20	2.06	35	0.78	0.28	-0.004	4.69	346.9	349.1 A
52.3	14.9		185.8	0.22	3.87	2.90	1.86	53	0.38	0.22	-0.012	3.49	346.8	
64.8	22.8		230.5	0.22	3.68	2.86	1.78	46	0.40	0.21	-0.009	3.59	346.7	349.1 A
65.6	24.7		230.6	0.22	3.85	2.96	1.94	39	0.40	0.22	-0.012	3.92	346.7	
74.0	29.4		259.1	0.21	3.80	2.80	1.80	50	0.71	0.23	-0.013	4.29	346.6	349.2 A
106.2	41.3		382.4	0.21	3.89	2.87	1.89	57	0.57	0.23	-0.014	4.24	346.5	
155.6	58.8		553.0	0.20	4.05	3.07	1.89	65	0.60	0.25	-0.018	4.53	346.4	349.2 A
146.6	65.3		526.2	0.21	3.77	2.79	1.84	59	0.62	0.23	-0.020	4.63	346.5	
170.0	66.9		603.1	0.21	3.66	2.86	1.82	60	0.33	0.21	-0.024	4.11	346.6	349.1 A
202.7	82.8		749.5	0.21	3.34	2.67	1.75	71	0.19	0.17	-0.045	3.88	346.5	
251.7	95.2		915.7	0.21	3.94	2.92	1.85	84	0.53	0.23	-0.033	4.69	346.5	349.3 A
213.6	82.3		819.1	0.21	3.60	2.74	1.72	76	0.43	0.21	-0.038	4.30	346.5	
278.4	99.6		1098.1	0.20	3.54	2.74	1.79	79	0.62	0.22	-0.050	5.75	346.5	349.2 A
264.2	105.6		1017.8	0.20	3.54	2.76	1.92	68	0.20	0.19	-0.048	4.56	346.7	
268.6	111.3		1045.9	0.20	3.82	2.80	1.81	72	0.45	0.22	-0.046	4.74	346.5	349.1 A
278.9	108.8		1126.0	0.20	3.86	2.91	2.05	66	0.36	0.22	-0.055	5.64	346.6	
368.4	130.8		1345.7	0.20	4.08	2.87	2.05	85	1.47	0.29	-0.047	8.37	346.1	349.0 A
315.8	120.9		1131.9	0.20	4.34	3.10	2.02	82	1.65	0.31	-0.035	8.16	346.4	
311.6	96.1		1134.7	0.20	4.15	2.92	1.88	88	1.15	0.28	-0.031	6.36	346.0	349.1 A
269.5	91.3		1025.8	0.20	4.21	3.18	2.04	89	0.42	0.25	-0.029	5.03	346.1	
268.8	82.7		980.6	0.20	4.39	3.20	2.14	93	0.47	0.26	-0.032	5.21	346.1	349.4 D
239.3	74.5		893.5	0.20	4.10	2.81	1.96	100	1.72	0.29	-0.034	7.74	346.0	
216.1	70.4		802.2	0.21	3.85	2.72	1.78	102	1.13	0.26	-0.032	5.90	346.3	349.8
169.3	50.3		638.7	0.21	4.20	2.92	2.06	106	1.48	0.29	-0.031	7.20	346.5	
153.4	39.1		572.4	0.21	4.33	3.04	2.09	113	0.83	0.27	-0.022	5.49	346.5	349.7
114.7	26.6		429.9	0.21	4.05	2.77	2.02	108	1.52	0.28	-0.025	6.68	346.3	
100.3	19.9		375.2	0.22	4.21	2.77	1.86	112	2.62	0.32	-0.016	7.18	346.1	349.7
93.0	16.8		357.7	0.22	3.93	2.70	1.87	105	1.71	0.28	-0.020	6.29	346.1	
69.7	9.4		263.8	0.22	4.21	2.95	1.98	101	1.03	0.28	-0.012	5.24	346.3	349.7
62.7	3.7		242.9	0.23	4.53	2.98	2.21	103	1.78	0.32	-0.014	6.53	346.4	
46.6	0.2		195.9	0.23	4.19	2.73	1.95	109	2.16	0.31	-0.013	6.17	346.3	349.6
42.8	-2.8		168.2	0.24	4.19	2.97	1.97	110	1.71	0.30	-0.010	6.38	346.2	
32.4	-5.8		149.6	0.25	4.43	3.00	1.96	120	2.34	0.33	-0.007	6.70	345.9	350.0
23.6	-7.4		98.9	0.26	4.58	3.26	2.10	127	1.59	0.32	-0.005	6.23	346.5	
368.4	130.8		1345.7	0.35	6.25	4.72	3.14	127	2.62	0.44	-0.001	8.37	348.6	350.4
5.0	-11.9		21.8	0.20	3.34	2.67	1.72	17	0.19	0.17	-0.055	3.49	345.9	349.0
118.8	36.1		444.7	0.24	4.41	3.18	2.12	67	1.02	0.28	-0.019	5.62	346.8	349.5
10.3	3.1													

Central Marsh July 23

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	1.6	5.2	96.6	1.7	5.3	96.8	1.8	5.3	97.5	6.9	4.6	2.0	0.0	39.2	10.9
030	1.4	5.2	96.9	1.5	5.2	97.6	1.6	5.3	98.5	6.1	5.3	2.7	0.0	35.2	10.1
100	1.5	5.4	100.0	1.7	5.3	97.5	1.7	5.4	98.5	6.4	4.0	2.8	0.0	32.0	9.6
130	1.9	5.3	96.9	2.0	5.5	98.9	2.0	5.5	99.4	5.5	5.2	2.0	0.0	25.7	8.5
200	1.8	5.4	99.8	2.0	5.4	98.1	2.0	5.5	98.7	5.9	3.7	2.5	0.0	23.6	7.8
230	1.9	5.4	97.6	2.0	5.4	98.3	2.1	5.5	98.9	5.1	4.5	2.9	0.0	21.8	7.5
300	1.9	5.3	96.9	2.0	5.4	98.4	2.0	5.5	99.7	5.3	4.2	1.6	0.0	21.0	7.3
330	1.8	5.5	100.0	2.0	5.5	98.9	2.0	5.5	99.5	5.4	3.3	2.8	0.0	22.9	7.8
400	2.2	5.5	97.7	2.3	5.6	98.8	2.3	5.7	99.9	4.7	4.4	2.6	0.0	23.7	7.9
430	2.5	5.4	94.5	2.6	5.5	95.2	2.5	5.5	96.5	5.2	3.5	1.8	0.0	29.6	8.5
500	2.6	5.4	93.1	2.7	5.4	92.5	2.6	5.4	94.6	4.8	3.2	2.9	0.0	38.9	10.1
530	3.0	5.3	90.2	3.0	5.5	92.5	2.9	5.6	94.5	4.4	4.0	1.9	0.0	46.8	11.5
600	3.2	5.5	90.9	3.2	5.5	92.2	3.2	5.6	94.0	4.9	3.2	1.4	0.0	52.8	12.3
630	3.3	5.7	93.8	3.4	5.6	92.8	3.4	5.7	94.1	4.8	2.9	2.8	0.0	70.3	15.7
700	3.4	5.6	92.3	3.4	5.7	93.8	3.6	5.8	94.8	4.6	3.9	1.5	0.0	81.2	17.9
730	3.8	6.0	95.6	3.9	5.9	94.4	4.1	6.0	94.9	5.4	2.6	2.1	0.0	85.8	19.1
800	4.3	5.9	92.2	4.3	6.1	93.7	4.5	6.1	93.9	4.9	3.9	1.8	0.1	98.4	21.4
830	4.6	6.1	93.3	4.7	6.2	92.9	4.9	6.2	92.5	5.8	2.6	2.1	0.1	115.9	24.5
900	4.7	6.1	91.4	4.8	6.2	93.2	5.0	6.3	93.0	5.3	4.1	1.5	0.0	144.6	30.2
930	4.7	6.1	92.6	4.9	6.2	92.5	5.2	6.3	91.4	6.2	2.6	2.1	0.0	185.3	38.2
1000	4.7	6.1	92.6	4.8	6.3	94.2	5.2	6.4	93.0	6.0	3.9	1.1	0.0	194.9	39.9
1030	5.7	6.4	90.5	5.8	6.5	90.3	6.3	6.6	89.0	6.7	3.1	2.4	0.0	223.8	45.5
1100	7.0	6.3	82.0	7.2	6.5	82.6	7.8	6.6	81.3	7.1	3.8	1.0	0.0	337.5	68.9
1130	8.0	6.3	76.4	8.3	6.5	76.9	9.2	6.6	74.5	7.3	4.4	1.5	-0.1	481.2	100.1
1200	8.8	6.5	74.6	9.1	6.6	74.9	9.9	6.8	72.8	7.7	4.2	1.7	0.0	426.8	87.2
1230	9.1	6.4	72.7	9.5	6.6	72.8	10.6	6.8	70.1	8.4	4.5	1.6	0.0	558.1	111.3
1300	9.6	6.3	68.9	9.9	6.4	69.2	10.9	6.6	67.1	8.9	5.1	1.3	0.0	501.6	98.2
1330	10.2	6.5	68.2	10.6	6.6	68.1	11.6	6.9	66.4	9.6	5.2	1.4	0.0	572.2	111.4
1400	10.4	6.2	64.4	10.7	6.4	65.0	11.8	6.6	63.1	10.3	5.4	1.7	0.1	596.1	113.2
1430	9.3	6.8	76.4	9.7	6.9	75.4	10.6	7.2	73.6	10.5	6.0	2.2	0.0	622.3	119.1
1500	9.0	6.8	77.9	9.3	7.0	77.7	10.1	7.2	76.4	10.7	6.8	1.7	0.1	613.9	117.4
1530															
1600															
1630															
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2100															
2130															
2200															
2230															
2300															
2330															
Max	10.4	6.8	100.0	10.7	7.0	98.9	11.8	7.2	99.9	10.7	6.8	2.9	0.1	622.3	119.1
Min	1.4	5.2	64.4	1.5	5.2	65.0	1.6	5.3	63.1	4.4	2.6	1.0	-0.1	21.0	7.3
Ave	4.8	5.9	88.6	4.9	6.0	88.9	5.3	6.1	88.8	6.5	4.1	2.0	0.0	204.0	41.9
Sum														11.4	2.3

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
14.3	-9.9		65.5	0.28	4.49	3.27	2.04	139	0.59	0.27	-0.004	4.15	346.8	350.1 A
-1.7	-17.1		58.0	0.29	4.53	2.83	1.94	130		0.36	-0.003	6.31	346.7	
1.8	-13.7		46.3	0.30	4.13	3.06	1.89	130	0.54	0.24	-0.005	3.75	346.8	350.0
4.5	-8.1		29.0	0.33	4.35	2.96	1.97	131		0.34	-0.002	6.83	347.0	
-1.4	-9.6		26.7	0.33	4.24	2.89	1.90	139		0.32	-0.005	6.17	347.0	350.2 A
2.8	-7.0		20.8	0.35	3.77	2.77	1.71	137	1.23	0.25	-0.004	4.47	347.3	
3.3	-5.0		19.4	0.35	4.43	3.15	1.94	140	1.16	0.29	-0.001	4.66	347.2	350.3 A
5.3	-4.3		22.2	0.34	4.41	2.87	1.86	139		0.35	-0.004	6.66	347.1	
7.2	-0.4		24.4	0.33	4.44	3.14	1.96	142	1.50	0.31	-0.001	5.26	347.0	350.6 A
4.0	-1.2		41.3	0.29	4.24	2.88	1.81	138	1.38	0.29	0.000	4.45	346.9	
3.5	-4.1		63.2	0.26	3.95	2.71	1.64	141		0.30	0.000	5.39	346.8	350.4 A
17.7	5.5		77.1	0.25	3.82	2.60	1.50	143		0.30	0.001	5.10	346.3	
20.1	8.9		95.8	0.23	3.85	2.74	1.74	150	1.39	0.27	0.000	4.72	346.0	350.1 D
35.1	16.4		131.0	0.22	3.27	2.43	1.46	142	0.64	0.20	-0.005	3.27	345.3	
43.5	21.8		157.0	0.22	3.23	2.18	1.39	146		0.26	-0.006	5.32	344.9	349.7 D
48.8	28.1		167.5	0.22	3.07	2.18	1.47	135	0.75	0.19	-0.014	3.47	344.7	
56.8	33.2		196.8	0.22	3.15	2.23	1.50	144	1.06	0.21	-0.009	4.01	344.3	349.4 D
68.2	39.3		237.7	0.21	3.77	2.68	1.72	148	1.43	0.26	-0.009	5.19	344.0	
86.3	46.6		302.9	0.21	3.48	2.59	1.54	148	0.69	0.22	-0.009	3.54	343.4	348.9 A
110.9	55.0		400.5	0.21	3.58	2.63	1.52	155	1.01	0.24	-0.012	4.22	342.9	
119.0	59.3		425.9	0.20	3.48	2.62	1.65	153	0.50	0.21	-0.014	3.82	342.3	348.6 A
137.1	66.1		492.0	0.20	4.16	2.95	1.90	155	0.63	0.25	-0.015	4.01	342.4	
194.5	88.4		750.9	0.20	3.75	2.73	1.72	158	0.64	0.23	-0.020	4.20	341.7	348.8 A
246.3	104.8		1122.9	0.21	3.55	2.75	1.80	167	0.28	0.19	-0.042	4.09	342.2	
259.6	111.3		994.0	0.20	4.14	3.16	1.91	164	0.49	0.25	-0.021	4.57	342.5	349.0 A
312.9	131.8		1294.5	0.20	3.59	2.75	1.83	166	0.29	0.20	-0.043	4.40	342.2	
265.5	131.6		1191.8	0.20	3.76	2.71	1.73	151	0.56	0.22	-0.032	4.42	342.5	349.5
324.0	150.2		1358.9	0.19	3.60	2.76	1.76	144	0.38	0.21	-0.037	4.48	342.7	
333.9	158.5		1389.6	0.19	3.89	2.93	1.76	150	0.65	0.24	-0.029	4.84	343.5	349.7
356.2	147.8		1468.3	0.19	5.92	4.01	2.79	109	1.32	0.40	-0.016	7.90	343.3	
357.3	137.5		1455.6	0.19	6.20	4.39	3.13	104	1.17	0.41	-0.017	8.78	343.4	349.6
														349.7 A
														349.9 A
														349.9 A
														350.0 A
														350.5 A
														350.4 A
														350.2 D
														349.8 A
357.3	158.5		1468.3	0.35	6.20	4.39	3.13	167	1.50	0.41	0.001	8.78	347.3	350.6
-1.7	-17.1		19.4	0.19	3.07	2.18	1.39	104	0.28	0.19	-0.043	3.27	341.7	348.6
110.9	47.2		455.7	0.25	4.01	2.86	1.82	143	0.84	0.27	-0.012	4.92	344.7	349.8
6.2	2.6													

Central Marsh July 24

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000															
030															
100															
130															
200															
230															
300															
330															
400															
430															
500															
530															
600															
630															
700															
730															
800															
830															
900															
930															
1000															
1030															
1100															
1130															
1200															
1230															
1300	0.9	4.8	93.3	1.1	4.9	93.4	1.4	5.0	94.6	11.1	4.8	2.6	-0.1	206.7	38.4
1330	0.4	4.8	97.0	0.6	4.8	95.9	0.9	5.0	97.0	11.7	4.0	2.4	0.0	223.6	42.5
1400	0.1	4.6	95.2	0.3	4.7	95.5	0.7	4.9	97.0	10.7	5.1	2.7	0.0	250.5	48.0
1430	-0.3	4.5	95.6	0.1	4.6	94.1	0.7	4.8	95.7	12.3	3.7	3.1	0.0	360.9	69.6
1500	0.0	4.3	89.4	0.3	4.5	90.3	0.9	4.8	92.8	11.5	5.9	1.8	0.0	381.9	74.3
1530	0.0	4.3	88.9	0.4	4.4	88.2	1.1	4.7	90.7	12.9	3.8	3.8	-0.1	404.1	79.5
1600	0.0	4.1	85.6	0.4	4.2	84.9	1.1	4.6	87.8	12.7	5.6	1.9	0.0	426.0	83.8
1630	-0.1	4.0	84.1	0.4	4.2	84.2	1.1	4.6	87.4	12.5	5.9	2.6	0.0	429.3	84.7
1700	0.0	4.2	87.4	0.4	4.3	85.9	1.1	4.6	88.1	13.4	4.4	3.7	-0.1	359.3	72.1
1730	-0.1	4.2	86.4	0.3	4.2	86.1	0.9	4.5	88.1	12.6	5.6	2.1	0.0	287.7	58.5
1800	-0.1	4.1	85.3	0.2	4.2	85.8	0.9	4.5	87.9	11.7	6.5	2.0	0.0	285.8	58.2
1830	-0.2	4.1	87.0	0.1	4.2	85.3	0.6	4.4	87.2	11.8	5.4	3.2	0.0	234.8	48.1
1900	-0.1	4.1	86.6	0.2	4.1	84.0	0.7	4.4	86.5	12.0	4.8	2.9	0.0	247.0	51.0
1930	-0.1	4.1	85.7	0.1	4.1	84.4	0.6	4.4	87.6	10.7	6.5	1.7	0.0	212.0	44.3
2000	-0.1	4.1	86.4	0.2	4.1	84.0	0.6	4.3	85.7	10.7	5.5	3.1	0.0	210.5	44.5
2030	-0.4	4.3	91.1	-0.1	4.2	86.7	0.3	4.3	87.6	11.0	4.5	3.0	0.0	144.3	31.2
2100	-0.4	4.1	86.9	-0.2	4.2	88.0	0.2	4.3	87.7	9.5	6.3	1.9	0.0	116.5	25.9
2130	-0.4	4.1	86.8	-0.2	4.2	89.0	0.1	4.3	87.8	9.6	4.9	3.4	0.0	103.3	23.2
2200	-0.5	4.1	87.5	-0.2	4.2	89.5	0.0	4.3	88.4	9.5	4.7	2.5	0.0	82.7	19.2
2230	-0.7	4.1	89.4	-0.5	4.3	92.3	-0.3	4.3	90.7	8.3	5.7	2.5	0.0	63.4	15.7
2300	-0.7	4.2	91.3	-0.5	4.2	89.7	-0.3	4.3	92.1	8.8	4.1	3.0	0.0	46.8	12.7
2330	-0.8	4.2	91.5	-0.7	4.2	90.0	-0.5	4.4	93.3	7.6	5.6	1.8	0.0	38.7	11.1
Max	0.9	4.8	97.0	1.1	4.9	95.9	1.4	5.0	97.0	13.4	6.5	3.8	0.0	429.3	84.7
Min	-0.8	4.0	84.1	-0.7	4.1	84.0	-0.5	4.3	85.7	7.6	3.7	1.7	-0.1	38.7	11.1
Ave	-0.2	4.2	89.0	0.1	4.3	88.5	0.6	4.5	90.1	11.0	5.1	2.6	0.0	232.5	47.1
Sum														9.2	1.9

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
														350.0 A
														350.6 D
														351.3 V
														352.4 V
														353.7 V
														350.7 V
														349.1 A
														349.0 A
														349.1 V
														349.7 D
														347.9 V
														347.4 D
														349.0 V
130.4	28.6		474.4	0.19	6.96	4.94	3.07	42	1.56	0.49	-0.004	9.06	348.3	350.3 D
139.5	23.8		496.5	0.19	6.53	5.14	3.29	52	0.27	0.36	-0.006	5.63	349.0	
158.3	36.6		552.6	0.19	6.07	4.79	3.12	12	0.24	0.33	-0.007	5.31	349.0	350.6 D
228.9	50.8		787.1	0.19	5.55	4.54	2.73	101	0.38	0.32	-0.010	5.70	349.6	
239.7	60.9		831.3	0.19	5.50	4.44	2.76	85	0.28	0.30	-0.012	5.30	350.3	351.3 A
254.2	63.8		881.0	0.20	5.65	4.21	2.60	148	0.89	0.36	-0.013	6.76	350.6	
261.6	68.3		938.6	0.20	4.82	3.80	2.45	166	0.28	0.27	-0.019	5.09	351.0	351.3 A
267.4	68.4		947.7	0.20	4.70	3.74	2.13	121	0.65	0.30	-0.014	5.59	351.1	
220.8	57.1		788.7	0.20	4.69	3.62	2.23	207	0.40	0.27	-0.020	4.97	351.3	351.4 A
174.7	40.8		631.9	0.20	4.98	3.73	2.39	60	0.50	0.29	-0.016	5.18	351.7	
170.6	37.1		625.7	0.20	4.57	3.56	2.20	231	0.43	0.27	-0.014	4.95	351.5	351.4 A
138.8	26.3		516.7	0.21	4.27	3.53	2.13	105	0.35	0.25	-0.014	4.73	351.8	
143.1	27.4		543.1	0.21	4.39	3.42	2.09	146	0.42	0.25	-0.016	4.51	351.7	351.3 A
123.1	21.6		460.9	0.21	4.29	3.38	2.01	125	0.44	0.25	-0.013	4.48	352.0	
122.8	23.4		459.5	0.21	4.17	3.04	1.99	195	1.40	0.29	-0.018	6.56	352.2	351.2 A
80.1	10.4		311.0	0.22	3.61	2.66	1.74	174	1.23	0.24	-0.022	5.60	352.4	
62.8	6.8		248.1	0.22	3.09	2.54	1.51	80	0.40	0.18	-0.018	3.64	352.5	351.1 A
53.6	4.3		216.6	0.22	3.10	2.34	1.32	95	0.96	0.21	-0.015	3.74	352.5	
39.5	0.7		168.9	0.23	2.70	1.93	1.09	141	1.76	0.20	-0.017	4.00	352.9	351.1 A
27.9	-3.9		122.2	0.25	2.19	1.77	0.99	207	0.67	0.14	-0.023	2.84	353.1	
18.0	-6.2		83.4	0.27	2.19	1.65	0.83	160	1.95	0.16	-0.022	3.18	353.4	351.1 A
12.4	-8.1		63.7	0.29	1.69	1.39	0.76	210	0.78	0.11	-0.033	2.32	353.5	
267.4	68.4		947.7	0.29	6.96	5.14	3.29	231	1.95	0.49	-0.004	9.06	353.5	353.7
12.4	-8.1		63.7	0.19	1.69	1.39	0.76	12	0.24	0.11	-0.033	2.32	348.3	347.4
139.5	29.0		506.8	0.21	4.35	3.37	2.07	130	0.74	0.27	-0.016	4.96	351.4	350.5
5.5	1.1													

Central Marsh July 25

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-0.8	4.3	92.9	-0.6	4.2	90.1	-0.5	4.4	94.7	7.8	3.8	3.7	0.0	33.8	10.3
030	-0.8	4.1	89.8	-0.7	4.1	87.9	-0.5	4.5	96.1	7.5	4.3	2.3	0.0	30.5	9.6
100	-0.8	4.0	88.4	-0.7	4.0	86.4	-0.6	4.4	94.4	6.5	5.0	2.3	0.1	27.6	9.0
130	-0.9	4.1	90.5	-0.8	4.0	87.3	-0.7	4.1	88.8	7.3	3.0	3.2	0.1	22.7	8.1
200	-0.9	4.1	90.9	-0.8	4.0	88.2	-0.7	4.1	89.7	6.3	4.0	2.8	0.1	20.5	7.7
230	-0.9	4.1	90.4	-0.8	4.0	88.7	-0.8	4.1	90.1	6.2	4.4	1.4	0.1	20.2	7.6
300	-1.0	4.2	92.9	-0.8	4.0	88.8	-0.8	4.1	90.0	6.6	2.6	3.4	0.1	19.5	7.5
330	-0.8	4.1	91.1	-0.7	4.1	88.7	-0.7	4.1	90.0	5.6	4.4	1.5	0.1	21.3	7.8
400	-0.9	4.3	93.6	-0.7	4.1	90.2	-0.7	4.2	91.7	6.4	2.4	2.5	0.1	22.4	8.1
430	-0.7	4.3	93.5	-0.6	4.2	89.6	-0.6	4.2	91.4	5.4	4.0	2.0	0.1	27.7	8.9
500	-0.7	4.4	94.9	-0.5	4.2	90.2	-0.5	4.3	91.3	6.3	2.3	2.5	0.0	31.4	9.6
530	-0.6	4.4	94.2	-0.5	4.2	89.8	-0.4	4.2	90.3	5.6	3.1	2.7	0.0	37.3	10.7
600	-0.5	4.3	92.5	-0.3	4.3	90.5	-0.2	4.2	88.8	5.6	3.6	1.1	0.0	46.2	12.2
630	-0.1	4.2	86.9	0.0	4.1	84.0	0.2	4.0	81.8	6.2	1.6	2.9	0.1	63.1	15.8
700	0.0	4.2	87.5	0.1	4.1	83.7	0.2	4.4	88.9	5.6	3.0	2.2	0.1	65.3	15.7
730	0.2	4.2	86.5	0.3	4.3	87.1	0.5	4.5	88.9	5.7	3.6	0.8	0.1	102.9	23.3
800	0.0	4.2	87.2	0.2	4.2	85.7	0.5	4.4	87.4	6.6	1.6	3.1	0.0	119.9	26.6
830	0.0	4.2	87.7	0.2	4.3	87.7	0.5	4.4	89.2	6.0	4.0	0.7	0.1	117.6	25.7
900	0.1	4.3	87.8	0.3	4.3	86.9	0.7	4.5	88.2	7.2	2.0	2.1	0.0	160.9	34.4
930	0.0	4.2	86.4	0.3	4.2	85.2	0.9	4.4	85.7	6.8	3.0	2.4	0.0	223.4	47.6
1000	0.2	4.1	84.9	0.5	4.2	83.8	1.2	4.4	84.9	7.4	3.6	0.8	0.0	299.9	64.0
1030	0.1	4.2	87.1	0.5	4.3	85.2	1.1	4.5	86.0	8.2	2.2	2.9	0.0	243.8	50.7
1100	0.2	4.2	85.8	0.4	4.3	86.1	1.1	4.5	86.2	7.7	4.5	0.8	0.1	268.6	54.4
1130	0.1	4.3	87.9	0.3	4.3	86.9	0.9	4.5	87.3	8.9	2.3	2.5	0.0	239.3	49.1
1200	0.8	4.3	84.6	1.1	4.4	84.5	1.9	4.7	84.5	8.4	4.9	1.0	0.0	383.6	78.1
1230	1.1	4.5	86.6	1.5	4.5	84.9	2.3	4.8	84.1	10.0	3.0	2.4	0.0	392.1	79.5
1300	1.4	4.5	85.2	1.8	4.6	83.3	2.7	4.8	83.1	8.7	4.3	0.4	0.0	432.0	87.1
1330	1.5	4.7	87.2	2.0	4.6	83.9	2.9	4.9	83.6	9.2	2.1	2.0	0.0	434.0	87.8
1400	1.5	4.6	85.7	2.0	4.6	83.8	2.9	4.9	83.6	9.4	3.2	0.4	0.0	428.2	85.7
1430	1.5	4.7	87.2	1.9	4.7	86.0	2.7	5.0	85.3	9.0	4.4	0.5	0.0	391.4	78.7
1500	1.7	4.8	89.0	2.1	4.9	87.0	2.9	5.1	86.7	9.4	4.0	1.2	0.0	442.0	88.7
1530	1.8	4.9	89.2	2.2	4.9	87.0	2.9	5.1	86.8	9.8	3.6	1.6	0.0	424.6	86.0
1600	1.9	4.9	89.6	2.3	5.0	87.6	3.1	5.2	86.9	10.3	3.5	1.5	0.0	432.5	87.9
1630	2.2	4.8	86.4	2.5	4.9	86.0	3.2	5.2	86.2	9.8	5.1	0.4	0.1	420.9	85.4
1700	2.1	5.0	88.8	2.5	4.9	86.1	3.2	5.2	86.4	9.9	4.9	1.1	0.1	403.9	82.6
1730	2.5	5.0	87.6	2.8	5.0	86.5	3.5	5.3	86.2	10.1	4.5	2.0	0.0	421.1	86.9
1800	2.2	5.0	89.3	2.5	5.1	88.5	3.1	5.3	88.4	10.2	4.1	1.8	0.1	308.5	64.3
1830	2.6	5.1	88.0	2.9	5.1	86.8	3.4	5.3	87.1	10.2	4.2	1.5	0.1	354.1	74.4
1900	2.4	5.1	89.8	2.7	5.2	88.9	3.2	5.3	88.8	9.9	4.6	1.2	0.1	304.7	64.8
1930	2.5	5.2	89.8	2.7	5.2	89.3	3.2	5.4	89.8	9.4	5.4	1.0	0.1	290.8	63.2
2000	2.2	5.2	92.5	2.4	5.2	91.5	2.8	5.4	91.6	9.1	4.9	1.9	0.1	223.7	48.6
2030	2.2	5.2	91.7	2.4	5.2	92.0	2.6	5.4	92.6	9.1	4.0	2.4	0.1	198.1	44.9
2100	2.3	5.0	89.4	2.2	5.2	93.3	2.4	5.3	93.3	8.8	3.9	1.5	0.1	187.9	44.9
2130	2.3	5.1	91.3	2.2	5.2	93.1	2.4	5.3	93.4	7.7	5.3	1.4	0.1	142.7	34.0
2200	2.1	5.2	93.9	2.3	5.3	93.2	2.4	5.3	93.5	7.6	3.8	3.0	0.1	106.8	25.1
2230	2.0	5.2	94.1	2.1	5.3	94.1	2.2	5.3	94.4	7.7	3.1	1.9	0.1	96.3	24.0
2300	2.1	5.2	93.9	2.1	5.3	94.5	2.2	5.3	94.9	6.5	5.1	1.7	0.1	77.4	20.1
2330	2.0	5.3	95.7	2.0	5.3	95.8	2.1	5.4	96.0	6.9	2.7	3.1	0.1	58.0	15.2
Max	2.6	5.3	95.7	2.9	5.3	95.8	3.5	5.4	96.1	10.3	5.4	3.7	0.1	442.0	88.7
Min	-1.0	4.0	84.6	-0.8	4.0	83.3	-0.8	4.0	81.8	5.4	1.6	0.4	0.0	19.5	7.5
Ave	0.8	4.6	89.5	1.0	4.6	88.1	1.4	4.7	88.9	7.8	3.7	1.9	0.1	200.4	43.0
Sum														17.3	3.7

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
6.3	-9.8		53.2	0.30	1.40	1.09	0.57	97		0.12	-0.038	2.94	353.7	351.2 A
5.4	-10.7		43.0	0.31	1.37	0.94	0.43	176		0.14	-0.020	3.51	353.9	
1.4	-11.1		35.4	0.33	0.86	0.57	0.41	140		0.10	-0.056	2.57	354.0	351.2 A
-2.2	-11.9		25.2	0.35	0.68	0.52	0.31	113		0.07	-0.082	2.63	354.3	
-2.6	-12.3		19.3	0.38	0.51	0.46	0.32	108		0.07	-0.108	2.36	354.1	351.2 A
-2.9	-11.7		18.2	0.38	0.47	0.32	0.28	220		0.08	-0.120	2.06	354.6	
-2.3	-11.6		17.0	0.39	0.75	0.58	0.38	195		0.09	-0.069	2.64	354.3	351.2 A
-1.2	-10.8		20.7	0.37	0.97	0.85	0.50	51		0.10	-0.021	2.10	354.3	
0.4	-9.4		24.7	0.36	0.14	0.18	0.24	152		0.10			354.7	351.2 A
2.9	-7.7		35.6	0.32	0.92	0.71	0.39	67		0.09	-0.045	2.61	354.6	
8.1	-5.3		44.3	0.31	0.92	0.63	0.40	64		0.10	-0.056	2.94	354.2	351.1 A
12.5	-3.3		59.9	0.29	1.34	0.94	0.63	45		0.12	-0.039	3.15	353.9	
17.8	-0.2		81.0	0.27	1.18	0.88	0.47	81		0.11	-0.031	2.80	353.7	351.0 A
29.8	3.3		119.4	0.25	1.53	0.98	0.61	121		0.14	-0.030	3.76	353.3	
30.7	4.6		131.3	0.24	2.08	1.50	0.85	116	1.86	0.15	-0.018	3.21	353.0	350.9 A
56.2	12.6		213.8	0.23	2.26	1.71	1.06	113	1.66	0.17	-0.019	3.87	352.6	
64.6	15.9		259.4	0.22	2.52	1.87	1.12	99	1.91	0.19	-0.028	4.52	352.4	350.8 A
66.5	17.1		255.9	0.22	2.51	1.74	1.13	104		0.19	-0.028	4.87	352.5	
93.7	23.3		355.7	0.21	2.88	2.05	1.39	112	1.73	0.21	-0.031	5.31	352.3	350.7 A
129.9	31.8		507.5	0.21	2.92	2.06	1.54	112	1.27	0.20	-0.047	5.74	352.0	
174.9	35.7		689.7	0.21	3.58	2.51	1.70	107	1.77	0.26	-0.033	6.70	351.8	350.6 A
144.9	35.8		565.5	0.21	4.01	2.82	1.99	107	1.67	0.28	-0.029	6.85	351.9	
162.4	36.4		624.5	0.20	4.21	2.84	2.05	121	1.72	0.29	-0.029	6.47	351.7	350.6 A
142.3	24.1		550.7	0.21	4.56	3.21	2.21	123	1.49	0.32	-0.016	7.13	351.9	
240.0	51.7		882.9	0.20	4.46	3.16	2.13	120	1.14	0.30	-0.024	6.53	351.2	350.5 A
242.3	55.0		902.9	0.20	4.47	3.11	2.11	116	1.84	0.32	-0.025	7.93	351.6	
265.1	64.0		1005.6	0.20	4.74	3.27	2.44	112	1.23	0.31	-0.036	7.54	351.3	350.4 A
267.7	61.7		999.2	0.20	5.10	3.73	2.59	110	0.75	0.32	-0.029	7.03	351.4	
254.0	62.7		996.7	0.20	4.86	3.58	2.35	110	0.62	0.29	-0.024	5.89	351.2	350.5 A
240.9	57.1		899.2	0.20	5.31	3.82	2.51	109	0.90	0.34	-0.017	6.71	351.4	
276.7	60.3		1022.8	0.20	5.76	4.30	2.80	110	0.50	0.34	-0.016	6.10	350.9	350.4 A
267.9	56.7		981.3	0.20	6.23	4.29	2.89	115	1.92	0.45	-0.012	9.76	351.0	
274.1	55.5		966.0	0.20	6.08	4.42	3.03	111	1.06	0.40	-0.013	8.64	350.6	350.4 A
261.5	56.8		960.1	0.20	6.54	4.71	3.06	114	1.65	0.46	-0.012	9.25	350.7	
246.5	46.4		902.2	0.20	6.46	4.62	3.21	113	1.34	0.44	-0.011	9.62	350.4	350.4 A
263.5	53.9		927.2	0.21	6.89	4.53	3.27	109		0.50	-0.010	9.72	350.4	
188.1	36.6		690.3	0.21	6.57	4.55	3.04	111	1.47	0.45	-0.009	8.55	350.6	350.3 A
210.8	41.7		804.5	0.21	6.26	4.37	3.16	112	1.06	0.41	-0.012	7.93	350.2	
183.0	32.1		684.3	0.21	6.74	4.56	3.53	113	1.19	0.44	-0.011	8.19	350.2	350.3 A
173.1	28.1		639.4	0.22	6.95	4.74	3.25	111	1.92	0.50	-0.007	9.43	350.0	
125.9	18.7		489.2	0.22	7.07	4.52	3.35	110		0.51	-0.008	8.31	350.3	350.4 A
101.2	9.5		438.2	0.23	6.99	4.74	3.21	117		0.51	-0.004	9.21	349.9	
75.9	2.3		411.6	0.24	7.66	5.13	3.69	116	1.74	0.53	-0.002	8.14	350.1	350.6 A
61.3	-0.2		305.9	0.24	7.66	4.91	3.58	120		0.56	-0.002	8.00	350.2	
49.1	1.2		226.0	0.23	6.71	4.78	3.27	115	1.03	0.44	-0.003	7.73	350.5	350.7 A
40.9	-0.9		196.8	0.25	6.96	4.54	3.37	119	1.87	0.50	-0.002	8.49	350.8	
18.9	-5.4		153.9	0.26	7.07	4.56	3.27	121		0.52	-0.001	8.83	350.9	350.7 A
17.4	-4.1		106.7	0.26	7.05	4.18	3.21	125		0.56	-0.002	9.16	351.3	
276.7	64.0		1022.8	0.39	7.66	5.13	3.69	220	1.92	0.56	-0.001	9.76	354.7	351.2
-2.9	-12.3		17.0	0.20	0.14	0.18	0.24	45	0.50	0.07	-0.120	2.06	349.9	350.3
114.3	20.1		444.7	0.25	4.07	2.81	1.94	114	1.42	0.29	-0.027	6.12	352.0	350.7
9.9	1.7													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	1.9	5.3	95.9	1.9	5.3	96.9	2.0	5.4	97.3	6.3	3.9	1.2	0.2	41.1	11.6
030	1.9	5.4	98.0	2.0	5.4	97.6	2.0	5.4	98.2	5.8	3.7	3.0	0.1	31.4	9.7
100	1.9	5.3	95.6	1.9	5.3	96.3	1.9	5.3	96.7	6.0	2.9	1.7	0.1	28.7	9.3
130	1.8	5.2	94.8	1.8	5.2	95.8	1.8	5.3	96.6	5.1	4.2	2.1	0.1	27.9	9.3
200	1.9	5.3	96.1	1.9	5.3	96.0	1.8	5.3	96.6	5.7	2.0	2.5	0.1	26.1	9.1
230	1.8	5.2	95.2	1.8	5.3	95.9	1.8	5.3	96.7	4.5	4.2	1.8	0.1	24.7	8.7
300	1.6	5.2	96.9	1.6	5.3	97.6	1.6	5.3	98.3	5.3	1.8	1.9	0.1	22.6	8.1
330	1.9	5.4	98.1	1.9	5.5	98.9	1.9	5.5	99.5	4.2	3.9	2.1	0.1	23.4	8.2
400	2.2	5.5	98.2	2.3	5.6	98.8	2.3	5.6	99.2	5.1	1.7	1.7	0.1	24.4	8.6
430	2.8	5.7	98.4	2.8	5.7	98.1	2.8	5.8	98.2	4.3	3.3	2.5	0.1	22.5	8.0
500	2.9	5.7	96.7	3.0	5.7	97.1	3.0	5.8	97.6	5.2	1.6	1.7	0.2	26.0	8.5
530	3.1	5.8	96.8	3.1	5.9	97.8	3.2	5.9	97.9	4.3	3.6	1.5	0.1	33.2	9.7
600	3.6	6.1	98.5	3.7	6.1	98.1	3.7	6.1	98.0	5.4	1.1	2.6	0.1	42.0	11.3
630	4.2	6.0	93.9	4.2	6.1	95.3	4.2	6.1	95.3	4.9	3.3	0.9	0.2	59.5	14.5
700	4.5	6.1	94.0	4.5	6.2	94.1	4.6	6.2	94.2	4.9	3.1	2.4	0.1	58.1	14.2
730	4.7	6.2	93.1	4.8	6.2	92.7	4.9	6.2	93.0	5.6	1.6	2.6	0.2	105.5	23.5
800	5.1	6.1	90.1	5.1	6.2	90.9	5.2	6.3	91.1	5.5	2.7	1.2	0.2	150.9	35.3
830	5.4	6.2	89.5	5.5	6.3	90.3	5.6	6.3	90.1	5.3	3.5	1.3	0.2	165.4	36.7
900	5.8	6.4	89.4	5.8	6.4	89.4	6.1	6.4	88.6	5.7	2.9	2.4	0.1	212.9	48.7
930	6.5	6.4	85.3	6.6	6.4	85.4	6.9	6.5	84.6	6.5	1.8	2.2	0.1	294.0	69.3
1000	7.1	6.5	84.1	7.2	6.6	84.3	7.5	6.7	83.6	6.4	3.1	1.2	0.1	347.5	78.7
1030	7.6	6.7	83.8	7.7	6.8	84.1	8.1	6.9	82.7	6.4	3.9	1.2	0.1	380.9	84.3
1100															
1130	9.3	6.9	77.0	9.4	6.9	76.8	10.0	7.0	75.4	10.7	2.6	5.5	-0.5	457.6	95.2
1200	10.0	7.0	74.2	10.2	7.1	74.6	10.7	7.2	73.4	11.7	0.3	6.7	0.1	462.1	97.1
1230	10.8	7.1	71.9	11.0	7.2	72.2	11.6	7.4	70.9	12.8	0.8	6.9	0.1	504.6	101.4
1300	11.7	7.3	69.6	11.9	7.4	69.9	12.5	7.5	68.3	14.3	2.4	5.8	0.1	534.9	104.9
1330	12.4	7.4	68.2	12.5	7.6	68.9	13.2	7.7	67.3	15.7	3.1	4.7	0.1	521.0	101.7
1400	13.0	7.6	67.5	13.2	7.7	67.6	13.9	7.9	66.0	16.7	2.1	6.7	0.0	539.4	104.4
1430	13.7	7.8	66.0	13.9	8.0	66.8	14.5	8.1	65.5	16.9	3.6	5.9	0.1	511.7	99.5
1500	14.5	8.0	64.3	14.6	8.2	66.0	15.3	8.4	64.4	17.8	4.0	5.1	0.1	519.9	100.3
1530	15.3	8.2	62.9	15.5	8.4	64.0	16.3	8.6	62.2	18.4	5.2	5.6	0.0	538.3	102.6
1600	15.9	8.3	61.3	16.1	8.5	62.3	17.0	8.7	60.5	19.6	5.5	4.5	0.0	522.1	99.7
1630	16.4	8.4	60.3	16.6	8.6	60.9	17.5	8.8	59.5	20.5	6.1	5.0	0.1	503.9	96.8
1700	16.9	8.6	59.8	17.1	8.8	60.3	18.0	9.0	58.5	21.8	6.4	4.2	0.1	483.4	93.8
1730	16.8	8.7	61.2	16.9	8.8	61.3	17.8	9.1	60.3	22.9	7.5	4.1	0.2	447.3	88.7
1800	14.4	8.5	69.2	14.7	8.7	69.6	15.4	9.0	68.8	23.6	7.0	4.3	0.3	419.2	85.6
1830	13.2	8.3	72.9	13.5	8.5	73.3	14.1	8.8	72.7	22.6	8.1	4.1	0.4		82.8
1900	12.9	8.3	74.3	13.1	8.5	74.7	13.7	8.7	73.9	21.7	7.5	4.5	0.4		77.9
1930	12.7	8.3	74.7	12.8	8.5	76.0	13.3	8.7	75.2	20.2	8.6	3.9	0.4		71.8
2000	12.4	8.4	77.0	12.4	8.5	78.3	12.8	8.7	77.7	18.8	7.4	5.0	0.4	266.1	62.1
2030	12.7	8.5	76.1	12.6	8.8	79.6	12.9	8.9	79.1	17.0	8.4	4.3	0.4	220.6	53.8
2100	12.6	8.6	78.1	12.4	9.0	82.3	12.8	9.0	81.2	16.1	7.3	5.6	0.5	189.6	48.2
2130	12.5	8.6	78.7	12.4	8.8	81.0	12.6	9.0	81.1	14.9	8.2	4.5	0.5	153.4	40.4
2200	12.4	8.9	81.3	12.5	8.9	80.9	12.6	9.0	81.4	14.3	7.1	5.8	0.5	130.6	36.2
2230	11.7	8.7	83.2	11.8	8.7	83.4	11.8	8.8	84.0	13.0	8.4	4.2	0.5	101.4	29.7
2300	11.6	8.8	85.0	11.6	8.9	86.1	11.5	8.9	86.5	12.4	6.4	6.2	0.6	79.8	24.1
2330	10.8	8.5	86.2	10.6	8.6	87.8	10.5	8.6	88.6	11.2	7.4	5.6	0.5	64.1	20.7
Max	16.9	8.9	98.5	17.1	9.0	98.9	18.0	9.1	99.5	23.6	8.6	6.9	0.6	539.4	104.9
Min	1.6	5.2	59.8	1.6	5.2	60.3	1.6	5.3	58.5	4.2	0.3	0.9	-0.5	22.5	8.0
Ave	8.7	7.1	82.2	8.7	7.2	82.9	9.0	7.3	82.5	11.6	4.4	3.6	0.2	234.5	52.0
Sum														20.3	4.5

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
13.6	-4.2		67.1	0.28	6.37	4.29	3.17	122	1.51	0.43	-0.002	7.17	351.4	350.7 A
4.8	-4.8		45.3	0.31	6.11	4.05	2.93	122	1.80	0.44	-0.002	7.57	351.4	
-13.0	-8.9		39.5	0.32	6.38	4.43	2.96	131	1.63	0.46	0.000	8.47	351.5	350.9 A
-16.0	-9.8		35.4	0.33	6.34	4.23	2.85	129		0.47	0.000	8.29	351.6	
-27.9	-11.4		30.9	0.35	5.68	3.86	2.78	133	1.62	0.40	0.000	7.26	351.6	351.2 A
-24.6	-11.4		27.0	0.35	5.30	3.66	2.65	134	1.58	0.37	0.001	6.56	351.7	
-6.7	-6.2		21.6	0.36	5.98	4.33	2.85	138	0.43	0.34	0.000	4.65	351.9	351.4 A
2.0	-1.2		22.4	0.35	6.41	4.54	2.89	141	0.95	0.41	0.000	6.06	351.5	
8.0	2.5		21.7	0.35	6.31	4.50	2.88	142	1.53	0.44	-0.001	7.83	351.5	351.4 A
9.9	6.2		21.8	0.35	5.80	3.99	2.66	142	1.88	0.42	-0.001	7.80	351.6	
13.5	7.7		32.4	0.33	6.16	3.97	2.94	140		0.45	-0.001	7.48	351.6	351.2 A
17.3	9.6		49.4	0.29	5.86	4.05	2.92	137	1.51	0.41	-0.001	7.51	351.1	
22.3	13.3		70.9	0.27	5.45	3.90	2.84	142	0.93	0.35	-0.003	5.81	350.2	350.0 V
34.8	18.5		115.0	0.24	5.35	4.14	2.67	147	0.29	0.29	-0.001	4.03	349.3	
36.2	19.4		111.9	0.24	5.07	4.06	2.55	150	0.27	0.28	-0.001	4.16	348.5	349.9 A
43.7	18.9		243.6	0.22	5.28	3.90	2.40	149	0.79	0.33	-0.002	5.25	348.3	
73.0	22.6		341.1	0.23	6.59	4.70	3.08	150	1.07	0.44	-0.001	7.49	348.0	349.8 A
86.9	27.3		373.3	0.22	6.40	4.76	2.88	151	0.60	0.38	-0.001	5.61	347.7	
108.3	29.7		502.1	0.23	6.72	4.61	3.14	150	1.86	0.48	-0.003	8.99	347.6	349.8 A
146.6	31.0		717.0	0.24	6.37	4.83	2.93	155	0.48	0.37	-0.004	5.62	347.6	
176.4	37.4		833.1	0.23	6.56	4.88	2.88	157	0.64	0.40	-0.004	5.74	346.5	349.3 D
201.3	45.0		912.3	0.22	6.37	4.86	2.99	155	0.44	0.37	-0.005	5.71	346.2	
														348.5 V
254.0	61.3		1084.8	0.21	6.26	4.63	2.86	160	1.07	0.42	-0.006	7.53	345.7	
264.2	68.5		1089.5	0.21	6.16	4.50	2.69	163	0.68	0.38	-0.006	5.95	344.9	347.0 V
285.7	80.9		1182.0	0.20	5.61	4.18	2.73	158	0.42	0.32	-0.009	5.40	344.0	
308.6	96.0		1258.2	0.20	5.60	4.27	2.72	163	0.35	0.31	-0.011	5.12	343.5	346.0 D
298.9	102.2		1204.2	0.20	5.53	3.92	2.44	162	1.13	0.37	-0.010	6.56	343.1	
311.5	111.3		1246.9	0.19	5.25	3.97	2.32	166	0.65	0.33	-0.010	5.55	343.0	345.4 D
291.2	104.7		1158.2	0.19	5.29	4.04	2.26	169	0.70	0.33	-0.009	5.33	342.9	
298.5	110.5		1184.9	0.19	4.97	3.71	2.11	174	0.79	0.32	-0.010	5.33	342.3	344.7 D
312.3	120.3		1244.0	0.19	4.57	3.49	1.95	181	0.79	0.29	-0.013	5.04	341.9	
299.8	113.8		1199.8	0.19	4.30	3.27	1.85	192	0.71	0.27	-0.016	4.96	341.7	343.9 A
285.5	109.4		1157.0	0.19	3.73	2.85	1.67	192	0.60	0.23	-0.022	4.48	341.6	
270.6	111.8		1111.7	0.19	3.50	2.73	1.59	189	0.59	0.22	-0.023	4.45	341.3	344.1 A
247.2	115.5		1036.7	0.20	2.67	2.04	1.25	172	0.56	0.16	-0.046	3.70	340.2	
230.2	98.0		970.5	0.20	3.75	2.58	1.78	109	1.79	0.27	-0.032	6.71	340.7	344.3
213.4	80.8		902.3		4.00	2.72	1.96	109	1.53	0.28	-0.029	6.49	340.6	
190.6	66.2		818.1		4.22	2.83	2.04	114	1.76	0.30	-0.022	6.54	340.6	344.4
165.1	51.8		725.8		4.42	2.97	2.33	119	1.20	0.29	-0.019	6.03	340.9	
128.4	38.8		591.5	0.23	4.42	2.93	2.14	121	1.96	0.32	-0.008	6.50	341.2	344.4
94.4	33.0		480.3	0.24	3.58	2.31	1.57	123		0.29	-0.005	5.81	340.5	
59.2	30.3		406.0	0.25	1.98	1.31	0.78	140		0.18	-0.009	3.75	339.9	343.5 D
49.6	26.6		326.9	0.26	1.40	0.93	0.59	125		0.14	-0.011	3.21	339.3	
36.2	22.2		270.4	0.28	1.67	1.01	0.70	113		0.15	-0.014	3.25	338.7	343.1 V
16.0	16.5		207.0	0.29	1.49	1.00	0.56	117		0.13	-0.002	2.77	339.8	
0.4	10.7		160.0	0.30	0.23	0.20	0.24	153		0.09	0.821	0.25	339.3	342.9 D
-9.8	4.5		127.0	0.32	0.27	0.20	0.23	226		0.09	1.294	0.40	340.6	
312.3	120.3		1258.2	0.36	6.72	4.88	3.17	226	1.96	0.48	1.294	8.99	351.9	351.4
-27.9	-11.4		21.6	0.19	0.23	0.20	0.23	109	0.27	0.09	-0.046	0.25	338.7	342.9
123.7	42.9		548.5	0.26	4.85	3.47	2.26	147	1.03	0.32	0.037	5.66	345.5	347.4
10.7	3.7													

Central Marsh July 27

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	9.5	8.0	88.2	9.2	8.0	89.6	8.9	7.9	91.0	10.5	6.4	6.1	0.6	0.0	15.3
030	8.7	7.7	89.2	8.4	7.7	91.3	7.7	7.5	92.9	9.3	7.0	5.9	0.7	2.3	11.5
100	8.1	7.6	91.8	7.6	7.6	94.2	6.6	7.2	95.4	8.4	6.9	5.1	0.7	25.0	9.9
130	9.1	8.3	93.3	8.6	8.1	95.1	7.3	7.5	95.6	7.8	6.0	5.6	0.8	25.7	10.7
200	10.0	8.6	91.9	9.9	8.8	94.0	9.6	8.7	94.9	7.6	6.3	5.5	0.8	24.8	9.7
230	9.7	8.4	91.6	9.5	8.6	94.2	9.1	8.4	95.0	7.6	6.7	4.7	0.8	21.9	7.7
300	8.9	8.2	94.1	8.3	8.1	96.6	7.3	7.6	96.2	7.3	6.3	4.5	0.8	20.1	6.6
330	7.8	8.1	99.0	7.3	7.8	99.5	5.6	6.8	96.5	6.7	5.6	5.2	0.8	22.1	7.6
400	7.2	7.7	99.2	6.5	7.5	100.0	4.8	6.5	96.7	6.2	6.0	4.9	0.7	26.5	8.6
430	6.3	7.4	99.6	5.7	7.1	100.0	4.4	6.5	99.4	6.0	5.9	4.6	0.7	33.5	11.3
500	6.5	7.4	99.2	6.0	7.3	100.0	5.2	6.8	99.3	5.8	5.8	4.2	0.8	47.2	15.5
530	6.7	7.5	99.0	6.3	7.4	100.0	5.6	7.1	100.0	6.0	5.7	4.1	0.7	60.6	19.9
600	7.5	7.9	99.0	7.2	7.9	100.0	6.9	7.7	100.0	6.3	5.4	4.2	0.7	73.0	23.5
630	8.0	8.2	99.8	8.0	8.3	100.0	7.9	8.3	100.0	6.7	5.5	3.9	0.7	90.9	27.8
700	9.2	8.8	98.7	9.3	8.9	99.8	9.4	9.0	99.5	7.2	5.5	3.7	0.7	119.8	35.8
730	10.0	9.1	97.4	10.0	9.3	98.8	10.3	9.3	97.4	7.9	5.4	3.6	0.8	157.3	43.4
800	10.7	9.3	95.1	10.8	9.5	96.7	11.1	9.6	95.0	9.0	5.3	3.9	0.7	206.5	53.0
830	8.6	8.2	95.8	8.8	8.4	96.4	9.1	8.4	95.3	10.6	5.1	4.4	0.6	186.7	40.5
900	7.3	7.6	96.2	7.6	7.7	95.8	7.9	7.9	96.1	10.8	5.7	4.2	0.5	204.8	44.3
930	7.5	7.4	93.4	8.0	7.4	89.1	8.1	7.8	93.9	11.0	6.1	3.6	0.5	235.9	50.5
1000	8.9	7.5	86.2	9.2	7.6	85.0	9.3	7.8	86.9	11.4	6.3	3.2	0.5	186.1	38.0
1030	9.1	7.8	87.9	9.4	7.9	87.4	9.8	8.0	86.4	12.3	5.9	3.7	0.5	231.7	45.9
1100	8.4	7.9	93.6	8.7	8.0	92.3	9.2	8.1	90.2	12.6	6.2	4.1	0.5	330.2	68.1
1130	6.7	7.2	95.4	7.0	7.4	95.0	7.5	7.5	93.7	12.5	6.9	3.4	0.5	262.1	52.7
1200	7.8	7.4	91.2	8.2	7.6	91.3	8.8	7.8	89.5	13.4	6.7	3.3	0.5	359.3	71.0
1230	8.7	7.7	89.2	9.1	7.8	88.4	9.6	7.9	87.0	13.8	6.3	4.4	0.5	264.5	51.4
1300	8.9	7.7	87.8	9.2	7.7	86.8	9.8	7.9	85.7	13.9	7.1	3.9	0.6	296.5	57.6
1330	9.3	7.5	84.5	9.5	7.7	84.8	10.2	7.9	83.4	14.4	7.5	3.1	0.6	387.9	75.3
1400	9.4	7.5	83.2	9.9	7.6	81.8	10.6	7.8	80.0	15.2	6.7	4.5	0.4	551.1	106.4
1430	9.0	7.2	82.0	9.4	7.3	81.4	10.2	7.6	80.0	14.8	8.1	3.6	0.5	564.2	107.3
1500	8.7	7.2	83.6	9.3	7.3	81.4	10.0	7.5	80.4	15.4	7.4	4.0	0.5	472.3	91.5
1530	9.2	7.2	81.0	9.6	7.3	79.7	10.5	7.6	78.6	15.8	8.1	4.3	0.5	538.4	102.8
1600	9.1	7.2	81.0	9.6	7.3	79.8	10.5	7.6	78.6	16.0	8.3	3.6	0.4	556.4	105.3
1630	9.1	7.2	81.1	9.6	7.3	79.4	10.4	7.6	78.8	16.9	8.4	4.7	0.4	538.5	102.6
1700	9.3	7.1	79.1	9.8	7.2	78.1	10.6	7.5	77.3	17.7	9.0	3.6	0.5	532.1	103.9
1730	9.3	7.1	79.1	9.8	7.2	77.3	10.6	7.5	76.8	18.4	8.5	4.8	0.5	460.1	92.0
1800	9.1	7.0	79.1	9.5	7.1	78.6	10.3	7.4	77.3	17.9	9.0	3.8	0.5	355.9	72.8
1830	8.8	7.0	80.6	9.0	7.1	80.5	9.4	7.3	80.5	15.3	8.4	5.0	0.6	203.4	40.7
1900	8.9	6.9	78.8	9.1	7.0	79.0	9.4	7.1	79.2	14.2	8.9	3.9	0.6	197.6	40.8
1930	8.5	6.7	79.2	8.6	6.8	79.8	8.7	6.9	80.1	12.8	8.1	5.2	0.6	105.7	22.8
2000	7.9	6.7	81.0	8.1	6.7	81.4	8.3	6.8	81.6	11.9	8.8	4.0	0.6	117.2	25.2
2030	8.1	6.7	80.9	8.3	6.8	80.7	8.4	6.9	81.2	11.8	7.5	5.3	0.7	121.5	25.8
2100	8.1	6.7	81.0	8.1	6.8	82.0	8.2	6.9	82.4	10.8	8.5	4.2	0.7	58.6	14.3
2130	7.9	6.8	83.2	8.0	6.9	83.9	8.0	7.0	84.4	10.5	7.2	5.0	0.7	41.6	11.2
2200	8.0	7.0	84.4	8.0	7.1	85.6	8.0	7.1	85.9	9.9	7.5	4.9	0.7	33.7	9.8
2230	8.4	7.2	85.2	8.4	7.3	86.2	8.4	7.3	86.7	9.6	8.0	3.8	0.8	33.1	9.7
2300	8.5	7.4	87.3	8.6	7.5	87.8	8.6	7.5	87.9	9.7	6.6	4.9	0.8	37.8	10.6
2330	8.4	7.5	89.0	8.4	7.6	89.8	8.3	7.6	90.3	9.2	7.5	4.2	0.9	36.9	11.1
Max	10.7	9.3	99.8	10.8	9.5	100.0	11.1	9.6	100.0	18.4	9.0	6.1	0.9	564.2	107.3
Min	6.3	6.7	78.8	5.7	6.7	77.3	4.4	6.5	76.8	5.8	5.1	3.1	0.4	0.0	6.6
Ave	8.5	7.6	88.9	8.6	7.6	89.1	8.6	7.6	88.8	11.2	6.9	4.3	0.6	197.1	42.1
Sum														17.0	3.6

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
-16.2	-1.8		88.3		0.23	0.24	0.23	152		0.12			345.1	342.1	D
-20.8	-7.7		57.7		0.31	0.19	0.23	282		0.08			348.9		
-18.9	-11.6		44.9	0.40	0.35	0.18	0.23	131		0.08			357.3	346.0	V
-14.2	-12.9		34.4	0.42	1.52	0.43	0.25	160		0.22	0.526	1.64	370.0		
-21.7	0.8		26.5	0.39	3.19	2.01	1.28	151		0.26	0.015	4.58	350.9	347.3	V
-24.8	2.4		24.3	0.35	2.38	1.44	0.83	204		0.22	0.030	3.89	348.9		
-18.4	-5.9		25.5	0.33	1.75	0.59	0.28	239		0.25	0.127	3.12	352.6	348.8	V
-7.4	-14.2		29.3	0.34	0.53	0.18	0.23	226		0.10			362.0		
-0.9	-14.3		36.3	0.33	0.14	0.18	0.23	178		0.10			374.7	349.1	D
3.8	-12.7		49.4	0.34	0.14	0.18	0.23	256		0.10			373.3		
9.2	-10.8		72.9	0.33	0.14	0.21	0.23	202		0.10			368.8	349.7	V
16.9	-7.2		103.3	0.33	0.14	0.24	0.23	62		0.10			364.2		
24.3	-2.0		126.8	0.32	0.35	0.20	0.23	82		0.08	0.922	0.66	344.7	351.6	V
34.1	3.7		169.4	0.31	0.75	0.20	0.23	100		0.12	0.025	0.86	343.2		
50.8	9.9		244.0	0.30	0.31	0.18	0.23	101		0.08			340.9	347.9	V
75.0	20.0		348.7	0.28	0.47	0.23	0.23	186		0.08	-0.529	3.88	342.6		
110.1	36.9		496.4	0.26	1.24	0.94	0.61	248		0.11	-0.078	3.71	343.0	346.0	V
101.3	47.7		457.4	0.22	2.94	2.27	1.48	312	0.51	0.18	-0.018	3.52	341.4		
109.6	42.7		495.7	0.22	3.02	2.30	1.51	315	0.36	0.17	-0.023	3.34	339.3		C
129.1	45.5		564.4	0.21	3.30	2.60	1.58	308	0.45	0.19	-0.020	3.63	341.4		
108.4	48.0		443.4	0.20	3.46	2.62	1.62	308	0.49	0.20	-0.013	3.49	342.6		C
138.2	55.0		558.2	0.20	3.55	2.66	1.87	307	0.61	0.22	-0.023	4.93	341.7		
195.5	57.1		786.2	0.21	5.10	3.97	2.74	299	0.16	0.26	-0.017	4.45	341.3		C
169.2	50.6		610.9	0.20	5.43	4.04	2.57	302	0.44	0.32	-0.011	5.11	341.9		
227.9	63.6		848.9	0.20	5.73	4.35	2.75	294	0.57	0.35	-0.011	6.10	342.4		C
169.5	58.8		624.1	0.19	5.25	3.83	2.55	292	0.45	0.30	-0.015	4.88	345.4		
191.6	60.3		690.2	0.19	5.03	3.85	2.64	280	0.48	0.29	-0.017	5.88	345.6		C
251.7	69.7		901.8	0.19	6.79	4.88	3.33	283	1.08	0.45	-0.009	8.67	346.3		
342.7	94.9		1296.2	0.19	7.51	5.63	3.75	291	0.30	0.41	-0.010	6.42	346.6		C
345.5	93.5		1311.9	0.19	7.42	5.48	3.65	288	0.34	0.41	-0.011	6.12	346.7		
293.9	84.3		1096.6	0.19	6.20	5.02	3.25	288	0.18	0.32	-0.016	5.45	346.7		C
322.4	95.1		1264.3	0.19	5.95	4.66	3.08	295	0.23	0.31	-0.017	5.44	346.6		
321.5	98.3		1309.8	0.19	5.28	4.15	2.86	299	0.18	0.27	-0.025	5.14	347.2	351.7	D
303.5	89.3		1263.7	0.19	4.89	3.94	2.49	309	0.26	0.27	-0.021	5.14	347.5		
304.3	93.6		1249.0	0.20	5.60	4.10	2.80	301	0.63	0.34	-0.016	6.78	347.1	351.2	D
254.7	84.3		1078.3	0.20	4.68	3.54	2.39	291	0.28	0.26	-0.024	4.82	347.0		
209.0	69.4		807.3	0.20	4.43	3.37	2.39	284	0.18	0.23	-0.031	4.28	346.9	350.7	D
127.2	32.5		457.5	0.20	5.00	3.80	2.51	279	0.28	0.27	-0.013	4.24	346.9		
121.4	28.3		426.9	0.21	5.33	4.06	2.91	277	0.16	0.27	-0.010	4.20	346.0	349.7	D
63.8	11.6		229.8	0.22	5.62	4.28	2.91	277	0.31	0.30	-0.005	4.47	345.6		
70.4	12.3		251.3	0.21	5.40	4.13	2.71	282	0.28	0.29	-0.005	4.31	345.1	349.1	A
72.2	16.0		263.5	0.21	5.59	4.24	2.78	279	0.58	0.33	-0.005	5.71	344.4		
32.4	7.7		118.2	0.24	5.17	3.79	2.43	278	0.68	0.32	-0.002	4.89	344.9	349.2	A
20.0	5.0		74.6	0.27	4.45	3.23	2.16	275	0.54	0.26	-0.002	4.01	345.0		
13.4	4.7		54.7	0.29	4.60	3.42	2.20	268	0.67	0.28	0.000	4.43	345.0	349.6	V
12.8	7.2		52.6	0.29	4.90	3.69	2.46	260	0.31	0.27	0.000	3.93	345.5		
10.1	9.1		60.1	0.28	5.61	4.15	2.70	253	0.98	0.36	0.000	5.73	345.7	349.6	D
-5.9	6.2		51.2	0.30	4.12	2.99	1.87	240	1.15	0.28	0.002	4.71	345.0		
345.5	98.3		1311.9	0.42	7.51	5.63	3.75	315	1.15	0.45	0.922	8.67	374.7	351.7	
-24.8	-14.3		24.3	0.19	0.14	0.18	0.23	62	0.16	0.08	-0.529	0.66	339.3	342.1	
108.5	31.6		451.6	0.25	3.57	2.64	1.77	247	0.46	0.23	0.017	4.53	348.4	348.8	
9.4	2.7														

Central Marsh July 28

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	8.9	7.7	88.2	9.0	7.8	88.7	8.9	7.8	89.4	9.2	7.4	3.5	0.9	33.8	10.5
030	9.4	7.7	84.9	9.5	7.7	84.8	9.3	7.7	85.7	9.5	6.7	4.6	0.9	19.7	7.3
100	8.6	7.5	87.6	8.6	7.6	88.7	8.5	7.6	89.2	9.1	7.5	3.3	0.9	17.6	6.6
130	8.1	7.6	91.0	8.2	7.6	91.1	8.1	7.6	91.5	9.0	6.2	4.3	0.9	20.5	7.4
200	7.7	7.4	91.7	7.7	7.5	93.0	7.6	7.5	93.2	8.5	7.1	3.9	0.9	19.3	7.2
230	6.7	7.0	92.7	6.7	7.1	93.1	6.6	7.0	93.4	8.1	6.4	3.6	0.9	19.7	7.3
300	5.2	6.7	97.7	5.2	6.8	98.5	5.2	6.8	98.5	7.4	6.1	4.3	0.9	18.4	7.0
330	4.1	6.2	97.5	4.1	6.3	98.9	4.1	6.3	98.6	6.8	6.4	3.8	0.8	19.3	7.3
400	2.9	5.6	95.4	3.0	5.7	96.1	3.0	5.7	96.4	6.2	6.4	3.3	0.7	22.0	7.8
430	2.2	5.4	96.0	2.2	5.4	96.4	2.2	5.5	97.1	5.6	6.0	3.3	0.8	26.3	8.6
500	1.5	5.3	98.0	1.6	5.3	98.5	1.7	5.3	98.9	5.3	5.6	3.8	0.7	29.4	9.2
530	0.9	5.2	100.0	1.0	5.2	100.0	1.1	5.3	100.0	5.2	5.4	3.6	0.7	33.0	9.9
600	1.0	5.2	100.0	1.1	5.2	100.0	1.2	5.3	100.0	5.2	5.2	3.9	0.6	36.0	10.5
630	1.1	5.0	96.6	1.2	5.1	97.9	1.3	5.2	97.6	5.0	6.0	2.6	0.7	41.3	11.1
700	1.0	5.0	95.4	1.1	5.0	97.0	1.2	5.1	97.2	5.0	5.5	3.5	0.7	48.8	12.4
730	1.0	5.0	97.2	1.2	4.9	93.9	1.3	5.0	95.1	5.3	4.3	4.0	0.6	45.0	11.4
800	1.0	4.9	95.8	1.2	4.9	93.7	1.3	5.0	94.7	5.1	5.1	2.7	0.6	52.3	12.8
830	1.1	4.8	92.3	1.2	4.9	92.9	1.3	5.0	94.1	5.2	5.2	3.3	0.6	60.4	14.3
900	1.0	4.9	93.6	1.2	4.9	92.7	1.4	5.0	93.6	5.6	4.1	3.4	0.6	61.4	14.7
930	1.3	4.8	90.3	1.3	4.9	91.9	1.5	5.0	92.8	5.5	5.6	2.3	0.6	72.3	16.6
1000	1.4	4.9	92.4	1.6	4.9	91.0	1.9	5.0	91.3	6.5	3.8	3.3	0.6	146.9	29.9
1030	1.7	4.9	90.5	2.0	5.0	90.0	2.4	5.2	90.8	7.7	5.2	2.0	0.6	208.3	40.9
1100	1.9	5.0	90.8	2.2	5.0	89.3	2.7	5.2	89.7	9.2	4.7	3.1	0.6	253.8	49.5
1130	1.8	5.0	91.8	2.1	5.0	89.6	2.6	5.2	90.2	9.8	4.4	3.3	0.5	197.5	39.2
1200	2.0	5.0	91.3	2.3	5.1	89.7	2.9	5.3	90.6	10.5	4.7	2.7	0.5	243.2	47.1
1230	2.0	5.1	93.1	2.3	5.2	91.9	2.9	5.5	93.2	11.0	5.7	2.6	0.5	237.4	45.0
1300	2.2	5.2	92.3	2.5	5.2	91.4	3.0	5.5	93.2	11.4	6.0	2.6	0.5	210.6	40.1
1330	2.2	5.1	91.6	2.4	5.2	91.6	2.9	5.4	92.6	10.8	6.0	3.0	0.5	143.6	28.4
1400	2.2	5.2	93.3	2.5	5.3	92.6	2.9	5.5	93.5	10.2	5.3	3.5	0.5	126.8	25.2
1430	2.3	5.3	93.4	2.5	5.3	92.7	2.8	5.5	93.3	9.6	5.3	3.0	0.5	102.9	21.2
1500	2.5	5.3	92.7	2.7	5.4	93.2	2.9	5.6	94.1	8.9	6.3	2.4	0.5	96.3	19.5
1530	2.5	5.4	94.2	2.7	5.5	94.1	2.9	5.6	95.8	8.5	6.0	3.8	0.5	83.6	16.9
1600	2.5	5.5	95.9	2.8	5.6	95.4	2.9	5.7	96.8	8.5	5.5	3.5	0.5	78.4	16.0
1630	2.8	5.5	95.0	3.0	5.6	95.3	3.1	5.8	97.5	8.1	6.9	2.6	0.5	87.5	17.4
1700	2.9	5.8	97.8	3.2	5.8	95.9	3.4	5.9	97.4	8.4	5.1	4.3	0.5	88.4	17.6
1730	3.3	5.8	95.4	3.5	5.9	96.0	3.6	6.0	97.4	8.1	6.3	2.5	0.6	83.8	17.1
1800	3.4	5.8	95.5	3.6	5.9	95.2	3.7	6.0	97.2	7.9	5.9	3.6	0.5	65.4	14.1
1830	3.5	5.9	95.7	3.7	5.9	94.9	3.9	6.1	96.5	8.1	5.1	3.6	0.6	86.6	17.9
1900	3.7	5.8	92.8	3.8	5.9	94.5	3.9	6.1	96.1	8.1	6.1	2.4	0.6	90.5	18.6
1930	3.8	5.8	93.7	3.9	5.9	94.5	4.0	6.1	96.1	8.0	5.9	3.0	0.5	82.6	17.3
2000	3.8	5.9	94.5	3.9	6.0	95.2	4.0	6.1	96.6	7.9	5.6	3.3	0.5	69.3	15.3
2030	4.1	6.0	94.3	4.1	6.1	95.3	4.2	6.2	96.2	7.8	5.3	3.5	0.5	56.4	13.3
2100	4.2	6.1	94.2	4.3	6.2	95.0	4.4	6.2	95.7	7.6	5.3	3.2	0.6	60.5	14.1
2130	4.5	6.1	93.8	4.5	6.2	94.5	4.6	6.3	95.5	7.7	5.3	3.2	0.6	65.2	15.0
2200	4.6	6.2	93.5	4.6	6.3	94.9	4.8	6.3	95.0	7.8	5.2	3.1	0.5	79.9	17.6
2230	4.6	6.3	95.4	4.7	6.4	95.6	4.8	6.4	95.4	7.8	4.8	3.3	0.6	60.1	14.0
2300	4.8	6.4	95.5	4.9	6.5	96.1	5.0	6.5	95.9	7.5	5.1	2.9	0.6	46.9	11.8
2330	5.0	6.6	97.5	5.1	6.7	98.3	5.1	6.7	98.3	7.1	5.1	2.9	0.6	25.7	8.1
Max	9.4	7.7	100.0	9.5	7.8	100.0	9.3	7.8	100.0	11.4	7.5	4.6	0.9	253.8	49.5
Min	0.9	4.8	84.9	1.0	4.9	84.8	1.1	5.0	85.7	5.0	3.8	2.0	0.5	17.6	6.6
Ave	3.3	5.7	94.0	3.5	5.8	94.0	3.7	5.9	94.8	7.8	5.6	3.3	0.6	80.7	17.7
Sum														7.0	1.5

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
2.9	9.9		46.3	0.31	4.01	2.95	2.64	247	1.59	0.28	0.002	5.17	345.6	349.7	V
3.8	13.7		16.5	0.37	5.78	4.38	4.20	245	0.32	0.32	0.001	4.69	345.1		
0.8	11.0		12.6	0.38	5.82	4.34	4.29	253	0.47	0.34	0.001	5.02	345.6	349.4	D
-11.4	7.0		20.6	0.36	6.47	4.92	4.93	248	0.35	0.36	0.000	5.24	345.0		
-15.3	5.5		18.2	0.37	5.76	4.27	4.13	249	0.67	0.35	0.002	5.77	344.6	347.7	V
-17.1	0.7		19.3	0.37	7.06	5.02	4.94	260	1.31	0.48	0.001	8.74	343.3		
-11.4	-4.8		15.9	0.38	7.21	5.32	5.06	258	0.76	0.45	0.000	7.29	342.5	346.6	A
-3.8	-6.1		15.7	0.38	7.28	5.53	5.53	267	0.29	0.39	0.000	5.49	341.7		
-1.7	-11.2		21.6	0.35	6.56	4.95	4.68	267	0.41	0.37	-0.001	5.54	341.6	346.6	A
-3.4	-14.7		32.7	0.33	5.87	4.12	4.08	260	1.44	0.40	-0.001	7.29	342.0		
8.8	-12.6		39.0	0.31	5.45	4.01	3.78	269	0.80	0.34	-0.002	5.58	341.9	346.6	A
13.1	-11.2		47.8	0.30	4.83	3.43	3.40	274	0.94	0.31	-0.004	4.97	342.0		
14.7	-8.9		55.4	0.29	4.56	3.39	3.32	287	0.39	0.26	-0.005	3.78	342.0	346.8	A
18.4	-7.1		71.6	0.27	4.68	3.53	3.30	289	0.46	0.27	-0.004	4.05	342.2		
23.3	-4.9		91.0	0.25	4.35	3.16	3.06	291	0.67	0.27	-0.004	4.11	342.8	347.8	D
20.7	-3.4		85.1	0.25	3.65	2.79	2.53	296	0.49	0.21	-0.010	3.44	343.4		
25.8	-2.6		103.6	0.24	4.13	2.84	2.70	311		0.31	-0.008	6.17	343.7	348.8	D
31.1	0.7		124.5	0.24	3.55	2.77	2.45	318	0.50	0.21	-0.007	3.35	344.2		
31.5	2.8		129.2	0.24	2.88	2.21	1.94	323	0.77	0.18	-0.011	3.38	344.3		I
38.9	5.6		157.4	0.23	3.25	2.21	2.08	331		0.26	-0.007	5.41	344.6		
87.8	18.7		337.4	0.20	2.87	2.20	2.14	333	0.71	0.18	-0.020	3.48	344.7	349.3	D
128.7	37.7		488.7	0.20	3.33	2.61	2.39	334	0.40	0.19	-0.023	3.64	344.5		
160.2	47.7		595.5	0.20	3.57	2.73	2.35	338	0.98	0.24	-0.018	4.68	344.7	349.6	A
124.2	39.5		467.0	0.20	3.34	2.60	2.33	326	0.54	0.20	-0.025	3.91	344.8		
154.6	46.3		582.9	0.19	3.38	2.69	2.34	235	0.77	0.22	-0.020	4.32	344.5	349.5	A
145.2	47.9		569.2	0.19	3.06	2.42	2.31	33	0.51	0.19	-0.026	3.97	344.4		
124.8	45.9		502.6	0.19	2.47	1.96	1.94	24	0.08	0.12	-0.078	3.20	344.1	349.6	A
82.8	31.2		345.6	0.20	2.83	2.14	1.95	27	0.75	0.18	-0.027	3.92	344.3		
72.0	22.3		302.4	0.20	2.81	2.09	2.01	36	0.68	0.17	-0.036	4.43	344.4	349.8	A
57.2	16.7		246.3	0.21	2.95	2.22	2.11	43	0.50	0.17	-0.025	3.61	344.4		
53.6	15.1		229.4	0.20	2.94	2.26	2.14	56	0.32	0.16	-0.027	3.33	344.5	350.0	A
46.5	12.3		194.1	0.20	2.79	2.12	2.03	58	0.34	0.16	-0.022	2.97	345.0		
42.9	12.3		178.1	0.20	2.71	2.05	1.81	63	1.17	0.18	-0.021	4.34	344.8	350.2	A
49.8	13.9		197.9	0.20	2.83	2.13	1.86	75	1.37	0.20	-0.020	4.49	344.6		
49.8	13.8		195.7	0.20	2.98	2.22	1.98	87	1.46	0.21	-0.020	4.98	344.5	349.9	D
46.2	14.2		180.6	0.20	3.20	2.22	1.91	97		0.25	-0.012	5.32	344.2		
33.6	12.3		135.4	0.21	2.40	1.68	1.50	97		0.19	-0.015	4.53	344.1	349.4	D
47.3	14.3		182.7	0.21	2.87	1.85	1.77	110		0.22	-0.015	4.72	343.4		
50.1	16.5		191.6	0.21	2.98	2.07	2.01	116	1.80	0.21	-0.010	4.51	342.6	348.5	V
46.0	15.8		172.4	0.21	3.18	2.08	2.06	113		0.24	-0.011	4.53	342.2		
37.9	13.3		139.7	0.22	3.27	2.12	1.92	112		0.25	-0.010	4.45	341.1	347.0	
30.0	12.4		107.5	0.24	2.93	1.84	1.67	114		0.24	-0.008	4.47	340.4		
33.0	12.5		115.8	0.23	2.89	1.91	1.82	115		0.21	-0.010	4.27	340.5	346.9	
36.8	15.3		125.8	0.23	3.51	2.27	2.24	126		0.27	-0.005	5.22	339.9		
44.6	17.1		158.1	0.22	3.69	2.44	2.39	135		0.28	-0.006	5.40	339.3	346.6	
31.3	14.4		114.4	0.23	3.27	2.23	2.11	147		0.25	-0.007	5.33	339.1		
23.2	13.0		83.4	0.25	2.80	2.03	1.83	151	1.90	0.21	-0.008	4.35	338.6	346.9	
9.9	10.0		32.9	0.31	2.78	1.94	1.69	185		0.22	-0.004	3.97	339.5		
160.2	47.9		595.5	0.38	7.28	5.53	5.53	338	1.90	0.48	0.002	8.74	345.6	350.2	
-17.1	-14.7		12.6	0.19	2.40	1.68	1.50	24	0.08	0.12	-0.078	2.97	338.6	346.6	
42.1	11.9		172.8	0.25	3.91	2.86	2.70	192	0.77	0.25	-0.012	4.68	343.1	348.4	
3.6	1.0														

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	5.2	6.8	99.4	5.3	6.9	100.0	5.3	6.9	99.9	6.9	5.1	2.6	0.6	21.3	7.4
030	5.7	7.1	100.0	5.8	7.2	100.0	5.8	7.1	100.0	6.7	5.1	2.9	0.6	21.9	7.6
100	6.2	7.2	99.1	6.2	7.3	100.0	6.1	7.3	100.0	6.7	5.4	2.4	0.6	21.2	7.5
130	5.8	7.1	99.9	5.8	7.2	100.0	5.8	7.2	100.0	6.6	5.1	2.3	0.6	19.4	7.1
200	5.0	6.8	100.0	5.1	6.9	100.0	5.0	6.8	100.0	6.2	4.9	2.6	0.6	18.3	7.0
230	4.7	6.6	99.6	4.8	6.7	100.0	4.6	6.7	100.0	5.6	4.9	2.6	0.6	18.1	7.1
300	6.0	7.2	99.3	6.0	7.2	100.0	5.8	7.2	100.0	5.3	4.5	2.8	0.5	18.6	7.3
330	7.5	7.8	97.6	7.4	7.9	99.2	7.2	7.8	99.2	5.7	4.9	2.9	0.5	18.5	7.2
400	8.3	8.1	96.2	8.1	8.2	98.9	8.0	8.1	98.3	6.3	4.6	3.6	0.5	19.4	7.0
430	8.6	8.0	93.6	8.4	8.3	97.9	8.3	8.2	97.2	6.5	5.5	2.8	0.5	21.8	7.0
500	8.8	8.0	92.2	8.7	8.2	95.1	8.4	8.2	96.9	6.9	5.3	2.0	0.6	26.3	7.7
530	9.2	8.0	90.4	9.3	8.1	90.6	8.8	8.3	95.3	7.5	4.3	3.1	0.5	36.4	9.3
600	9.4	7.9	87.8	9.5	8.0	87.8	9.1	8.1	91.3	7.6	5.2	2.8	0.5	29.8	8.0
630	9.5	7.7	85.3	9.5	7.8	85.5	9.3	7.8	87.3	7.9	5.3	2.0	0.5	28.7	6.7
700	9.1	7.7	87.1	9.2	7.7	86.7	8.9	7.8	89.5	8.4	4.8	4.2	0.6	27.7	6.1
730	8.7	8.0	92.2	8.7	8.0	92.8	8.6	8.0	93.6	9.3	4.1	6.1	0.6	28.8	7.6
800	8.9	8.1	92.4	8.7	8.2	94.9	8.7	8.2	95.0	9.3	7.0	4.3	0.7	28.4	7.8
830	8.7	8.1	94.2	8.7	8.2	95.6	8.6	8.2	95.8	9.5	7.1	4.4	0.8	28.3	7.8
900	7.0	7.4	96.0	6.8	7.6	99.2	6.9	7.5	97.3	9.4	7.3	4.6	0.8	31.3	8.3
930	3.4	6.0	98.1	3.5	6.1	100.0	3.6	6.1	98.9	8.3	6.1	4.6	0.5	85.1	16.4
1000	2.7	5.8	99.1	2.9	5.9	99.7	3.1	5.9	99.7	7.6	6.5	4.6	0.4	195.6	36.4
1030	3.2	5.7	94.5	3.2	5.9	98.6	3.5	6.0	96.9	7.4	6.4	3.7	0.4	236.5	47.1
1100	4.6	5.4	81.8	4.7	5.6	84.0	5.0	5.8	84.9	7.6	6.0	3.8	0.4	393.7	78.8
1130	5.7	5.1	71.1	6.0	5.1	70.9	6.4	5.5	74.1	8.7	6.2	3.3	0.5	488.7	92.8
1200	5.2	5.2	75.8	5.2	5.3	76.4	5.3	5.5	78.9	8.1	6.7	2.8	0.5	117.1	22.0
1230	3.7	5.1	82.1	3.8	5.2	83.0	4.0	5.4	84.6	7.6	5.8	3.4	0.5	207.3	37.6
1300	4.2	5.2	81.5	4.5	5.3	81.3	4.8	5.5	82.5	8.2	6.0	3.0	0.5	377.9	69.3
1330	4.2	5.2	81.2	4.3	5.3	81.7	4.5	5.5	83.3	8.4	5.8	3.5	0.5	285.0	52.1
1400	3.7	5.1	82.0	3.9	5.2	82.1	4.2	5.3	83.2	8.6	5.0	4.1	0.5	358.8	65.6
1430	4.3	5.0	77.0	4.6	5.1	76.8	4.9	5.3	78.3	8.9	5.5	3.5	0.5	418.8	78.4
1500	4.2	4.9	75.8	4.4	4.9	75.8	4.7	5.1	77.5	8.9	5.7	3.4	0.5	351.9	65.3
1530	3.6	4.8	77.9	3.9	4.9	77.3	4.1	5.0	78.8	8.2	5.6	3.4	0.5	379.8	70.9
1600	3.3	4.7	78.4	3.6	4.8	77.6	3.9	5.0	78.8	8.2	5.1	3.6	0.5	410.7	78.0
1630	2.9	4.6	78.6	3.2	4.7	78.7	3.5	4.9	79.4	8.1	5.4	3.3	0.5	539.6	106.7
1700	2.2	4.5	80.6	2.4	4.6	81.8	2.7	4.8	83.1	7.5	5.6	3.0	0.5	407.6	80.1
1730	1.7	4.4	81.8	1.9	4.5	82.5	2.1	4.7	84.2	6.4	5.4	3.3	0.5	231.9	44.3
1800	1.6	4.4	82.2	1.7	4.5	82.6	1.9	4.6	84.3	5.8	5.0	3.6	0.4	205.2	39.9
1830	1.4	4.4	82.9	1.6	4.4	81.8	1.8	4.6	83.6	5.5	4.6	3.6	0.4	214.9	42.7
1900	1.6	4.4	80.9	1.8	4.4	80.7	2.1	4.6	82.8	6.1	4.8	3.3	0.4	321.6	69.5
1930	1.3	4.4	83.9	1.4	4.4	83.5	1.6	4.6	86.2	5.6	4.8	3.7	0.4	211.6	43.3
2000	0.9	4.7	90.6	1.2	4.6	88.9	1.2	4.8	90.7	5.4	4.7	4.5	0.4	191.4	39.1
2030	0.6	4.7	92.8	0.8	4.6	90.5	0.9	4.7	92.3	4.9	4.9	4.3	0.4	123.0	25.5
2100	0.8	4.5	88.8	0.9	4.5	87.6	0.9	4.6	90.4	4.3	5.0	3.9	0.4	73.0	15.9
2130	0.8	4.4	85.6	0.9	4.4	86.4	0.9	4.5	88.5	3.8	5.3	3.3	0.4	67.2	14.9
2200	0.8	4.3	85.3	0.8	4.4	85.5	0.8	4.5	87.4	3.6	5.4	2.8	0.4	70.2	15.4
2230	0.6	4.3	85.9	0.6	4.3	85.7	0.6	4.4	88.1	3.3	5.1	3.1	0.4	48.6	11.6
2300	0.4	4.4	87.8	0.5	4.3	85.8	0.4	4.4	88.4	2.9	5.1	3.5	0.4	40.6	10.7
2330	0.2	4.4	90.2	0.3	4.3	87.8	0.2	4.4	90.4	2.9	4.1	3.8	0.4	39.4	10.9
Max	9.5	8.1	100.0	9.5	8.3	100.0	9.3	8.3	100.0	9.5	7.3	6.1	0.8	539.6	106.7
Min	0.2	4.3	71.1	0.3	4.3	70.9	0.2	4.4	74.1	2.9	4.1	2.0	0.4	18.1	6.1
Ave	4.5	5.9	88.3	4.6	6.0	88.7	4.6	6.1	89.9	6.9	5.4	3.4	0.5	157.4	31.7
Sum														13.6	2.7

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
7.5	9.8		21.5	0.35	2.25	1.54	1.28	211		0.20	-0.004	4.03	340.4	347.8 D
7.8	12.4		21.2	0.35	3.35	2.27	2.17	198		0.25	-0.001	4.31	340.2	
5.2	14.3		19.0	0.35	3.68	2.65	2.50	189	1.40	0.26	0.001	3.98	339.7	347.9 V
2.1	11.6		15.4	0.37	3.80	2.75	2.56	171	1.08	0.25	0.000	3.95	339.6	
-4.5	6.8		13.8	0.38	4.27	3.02	2.94	168	0.95	0.28	0.000	4.07	338.7	348.6 D
-10.9	-0.9		12.6	0.39	3.43	2.45	2.16	174		0.26	0.003	4.73	339.6	
-9.2	2.6		12.5	0.39	4.36	3.11	2.89	175	1.34	0.30	0.003	4.64	339.8	351.6 V
-5.3	15.5		11.9	0.39	5.47	3.93	3.62	179	1.23	0.37	0.002	5.55	341.8	
-5.8	23.3		14.3	0.36	6.29	4.82	4.47	185	0.90	0.41	0.002	6.12	342.9	352.6 D
-9.4	26.2		19.6	0.32	7.25	5.20	4.99	191	1.19	0.49	0.002	7.28	342.6	
-8.3	27.1		30.8	0.29	7.43	5.52	4.96	198	1.25	0.51	0.002	7.60	341.5	351.6 D
-2.5	30.0		55.0	0.26	8.08	6.10	5.93	203	0.67	0.50	0.002	7.06	340.2	
1.4	31.4		42.6	0.27	9.02	6.50	6.55	202	0.78	0.56	0.002	7.06	340.5	352.0 V
3.6	29.6		40.1	0.24	9.77	6.85	6.80	207	0.96	0.62	0.001	8.25	339.7	
7.8	28.0		39.5	0.22	10.18	7.01	6.90	216		0.74	0.001	11.14	338.6	350.9 V
11.3	28.1		43.7	0.26	10.72	7.45	7.55	217	1.63	0.75	0.001	11.66		
10.6	29.3		44.7	0.28	12.15	8.03	8.10	229		0.89	0.001	14.62		350.7 V
11.2	28.3		46.1	0.27	12.17	8.41	7.83	238	1.97	0.87	0.000	14.63		
12.0	19.5		55.1	0.26	11.35	8.83	3.60	277		1.35	0.000	14.56		345.6 D
40.6	3.7		187.7	0.19	9.73	7.00	5.99	300	1.57	0.67	-0.001	11.06		
102.8	10.1		431.4	0.19	7.45	5.81	5.96	294	0.17	0.38	-0.003	5.86	337.2	346.1 V
106.0	9.7		521.1	0.20	7.20	5.65	5.19	285	0.27	0.39	-0.003	5.87	335.4	
209.1	25.1		873.1	0.20	8.01	6.05	6.42	288	0.15	0.40	-0.005	5.45	335.3	348.6 V
289.0	46.1		1077.4	0.19	9.09	6.86	6.68	280	0.38	0.51	-0.003	7.47	336.3	
67.3	15.1		266.0	0.19	10.48	8.12	7.91	282	0.21	0.54	0.000	7.52	336.5	348.9 A
131.2	14.0		477.1	0.18	11.37	8.46	8.43	289	0.31	0.61	-0.001	8.37	336.2	
239.6	38.6		892.9	0.18	11.24	8.47	8.22	282	0.33	0.62	-0.002	8.85	335.9	349.1 A
183.9	30.7		659.4	0.18	12.03	9.53	9.32	282	0.27	0.66	-0.001	9.66	336.1	
230.2	34.6		828.6	0.18	11.56	9.07	9.34	289	0.26	0.63	-0.002	9.09	336.1	349.1 A
270.5	43.9		964.7	0.19	11.97	9.08	9.17	282	0.16	0.59	-0.002	8.12	336.1	
225.8	37.0		815.4	0.19	13.24	10.35	10.34	291	0.24	0.70	-0.002	9.36	336.2	348.9 A
243.1	29.5		874.5	0.19	14.10	10.63	10.82	291	0.29	0.76	-0.001	10.36	336.1	
248.6	31.4		940.0	0.19	15.03	11.72	11.89	290	0.18	0.78	-0.001	11.47	335.7	347.9 A
329.5	36.8		1211.8	0.20	15.87	11.87	12.20	294	0.25	0.84	-0.001	11.04	335.3	
242.0	25.4		899.2	0.20	15.37	11.48	12.04	295	0.18	0.78	-0.001	10.15	335.7	348.0 A
162.2	4.3		521.8	0.19	15.39	11.19	11.33	298	0.41	0.86	-0.001	10.87	336.3	
138.8	2.0		457.5	0.19	14.36	11.28	11.32	294	0.15	0.71	-0.001	9.24	336.8	348.8 D
143.4	3.0		472.0	0.20	14.59	11.07	11.03	303	0.22	0.75	-0.001	9.44	337.5	
206.0	15.6		708.5	0.22	14.97	11.20	11.72	307	0.22	0.78	-0.001	9.72	338.2	349.1
138.4	6.5		468.3	0.20	14.09	11.03	11.16	301	0.17	0.71	-0.001	8.93	339.0	
116.8	3.7		417.4	0.20	13.69	10.57	10.44	306	0.26	0.73	-0.001	10.26	339.2	349.3
87.2	-3.9		261.9	0.21	13.55	10.15	10.62	302	0.24	0.71	-0.001	9.17	339.9	
42.2	-11.0		145.2	0.22	13.68	10.50	10.36	300	0.26	0.73	0.000	10.08	340.5	349.2
39.9	-10.2		130.5	0.22	12.34	9.47	10.03	301	0.16	0.63	0.000	8.56	340.8	
38.3	-8.7		136.0	0.22	12.13	9.41	9.51	303	0.19	0.63	0.000	8.93	340.9	349.2
24.5	-11.5		86.0	0.24	12.26	9.31	9.33	303	0.17	0.61	0.000	8.00	341.5	
16.8	-13.3		66.7	0.26	11.87	9.11	9.23	300	0.26	0.63	0.000	8.51	341.7	349.2
14.8	-12.9		62.8	0.28	11.35	8.58	8.39	297	0.27	0.60	0.000	8.22	342.1	
329.5	46.1		1211.8	0.39	15.87	11.87	12.20	307	1.97	1.35	0.003	14.63	342.9	352.6
-10.9	-13.3		11.9	0.18	2.25	1.54	1.28	168	0.15	0.20	-0.005	3.95	335.3	345.6
90.7	16.0		342.0	0.25	10.27	7.70	7.54	257	0.56	0.60	0.000	8.44	338.6	349.2
7.8	1.4													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	0.1	4.4	89.8	0.2	4.3	87.8	0.1	4.4	90.2	2.8	3.8	3.3	0.3	31.2	9.3
030	0.0	4.3	88.7	0.0	4.3	89.7	-0.1	4.4	91.8	2.3	4.3	2.2	0.4	24.9	8.0
100	0.0	4.3	89.4	-0.1	4.4	91.5	-0.2	4.5	93.5	2.0	3.9	1.8	0.4	20.5	7.0
130	-0.2	4.4	91.5	-0.1	4.3	90.2	-0.2	4.4	93.4	1.8	3.4	2.6	0.4	18.7	6.7
200	-0.1	4.4	90.8	0.0	4.2	87.7	-0.1	4.4	90.8	2.1	2.0	3.3	0.3	17.0	6.7
230	0.0	4.2	87.2	0.0	4.2	88.2	-0.1	4.4	91.7	1.6	4.0	0.9	0.4	16.4	6.6
300	-0.2	4.4	92.8	0.0	4.4	90.5	-0.1	4.4	91.8	1.9	1.7	3.5	0.3	16.2	6.6
330	-0.1	4.3	89.1	-0.1	4.3	89.9	-0.2	4.4	91.2	1.8	2.8	1.2	0.4	17.0	6.9
400	-0.1	4.2	88.6	-0.1	4.2	86.9	-0.2	4.3	90.0	1.5	2.8	2.5	0.3	18.0	7.1
430	-0.1	4.2	87.2	0.0	4.2	86.4	-0.2	4.3	89.3	1.8	1.8	2.0	0.3	19.3	7.3
500	0.0	4.0	83.3	0.0	4.1	84.9	-0.1	4.2	87.4	1.4	3.3	1.1	0.3	23.9	8.0
530	0.0	4.1	85.5	0.2	4.0	82.8	0.0	4.1	85.6	1.9	1.1	3.1	0.3	33.7	9.7
600	-0.1	4.0	84.2	-0.2	4.1	86.9	-0.2	4.2	89.0	1.6	2.9	0.3	0.2	70.0	18.3
630	-1.0	4.3	95.0	-0.9	4.2	92.8	-0.8	4.3	94.4	2.0	1.4	2.8	0.2	66.8	16.7
700	-0.8	4.1	89.7	-0.7	4.2	91.0	-0.7	4.3	93.0	2.0	2.1	0.5	0.2	66.5	16.3
730	-0.4	4.4	92.9	-0.2	4.3	90.1	-0.3	4.4	92.0	2.3	1.2	3.0	0.1	60.2	14.8
800	0.1	4.2	85.7	0.0	4.3	88.4	0.1	4.4	90.2	2.2	3.2	0.6	0.2	68.3	15.8
830	0.2	4.4	88.6	0.4	4.3	86.4	0.5	4.4	88.0	2.9	1.2	3.0	0.2	106.1	22.7
900	0.5	4.2	84.6	0.6	4.3	86.2	0.8	4.5	87.7	3.3	3.2	0.5	0.2	155.1	31.7
930	0.7	4.5	89.2	0.9	4.4	85.6	1.2	4.5	86.6	4.4	1.6	3.4	0.1	219.3	45.1
1000	0.8	4.3	83.8	0.9	4.4	85.3	1.3	4.6	87.0	4.7	3.3	1.0	0.2	213.9	42.6
1030	0.9	4.4	85.8	1.0	4.5	86.3	1.2	4.6	87.8	4.8	3.1	1.8	0.2	176.4	34.9
1100	1.6	4.6	86.0	1.8	4.6	84.5	2.2	4.8	85.3	6.0	1.8	3.0	0.1	307.3	59.6
1130	1.7	4.6	84.2	1.9	4.6	83.6	2.3	4.8	85.0	6.3	2.3	2.4	0.2	215.8	40.6
1200	1.9	4.5	82.3	2.0	4.6	83.5	2.4	4.8	84.5	6.3	2.7	2.0	0.1	196.5	36.7
1230	2.0	4.5	82.2	2.1	4.6	82.7	2.4	4.8	84.0	6.4	2.2	1.9	0.1	171.4	32.4
1300	2.1	4.5	81.1	2.2	4.6	82.7	2.4	4.8	84.5	5.8	3.2	1.3	0.1	127.2	24.6
1330	1.9	4.7	85.1	2.0	4.7	85.0	2.1	4.9	87.2	5.2	2.7	2.0	0.2	102.5	20.4
1400	2.7	5.0	85.5	3.0	5.1	85.8	3.6	5.5	88.9	7.2	2.5	1.9	0.1	363.3	65.2
1430	3.3	4.9	80.5	3.5	5.0	81.6	4.0	5.3	83.3	8.3	2.5	2.3	0.1	221.7	40.7
1500	3.2	4.8	79.9	3.5	4.9	80.1	4.0	5.2	81.6	8.3	2.6	2.3	0.1	269.4	48.7
1530	3.8	4.8	76.9	3.9	5.0	78.8	4.6	5.3	79.9	9.7	2.9	2.5	0.1	326.4	59.4
1600	3.8	4.8	76.1	4.0	4.9	77.0	4.8	5.3	79.1	11.7	3.2	2.7	0.0	399.3	73.9
1630	3.0	4.8	80.2	3.2	4.8	79.5	3.7	5.1	81.5	10.7	4.0	2.6	-0.1	185.3	35.5
1700	2.3	4.9	85.9	2.5	4.8	83.7	3.0	5.1	85.4	9.9	3.6	3.3	0.0	193.7	37.2
1730															
1800															
1830	2.8	4.7	80.0	3.0	4.8	80.1	3.5	5.1	82.7	10.9	4.3	2.4	0.0	244.6	47.5
1900	2.6	4.7	81.5	2.8	4.8	82.4	3.3	5.1	85.1	11.5	4.1	2.5	0.0	255.6	51.1
1930	2.3	4.7	83.3	2.7	4.8	82.6	3.1	5.1	85.8	11.3	4.2	2.8	0.0	235.9	48.4
2000	1.8	4.7	86.6	2.0	4.8	86.9	2.5	5.1	88.7	10.8	4.7	2.1	0.0	247.3	53.7
2030	2.0	4.9	87.7	2.1	4.8	86.6	2.7	5.2	89.5	10.6	4.3	2.5	0.0	277.9	70.0
2100	0.1	4.5	93.6	0.3	4.6	93.4	0.7	4.9	96.2	9.3	4.5	2.6	0.0	171.0	38.7
2130	-1.0	4.4	97.6	-0.7	4.4	95.9	-0.4	4.6	98.4	8.1	4.7	2.5	0.0	118.8	26.6
2200	-1.5	4.3	99.0	-1.2	4.3	96.1	-0.8	4.5	98.3	7.4	4.3	2.8	0.0	99.3	23.3
2230	-1.5	4.4	100.0	-1.1	4.4	98.0	-0.9	4.5	100.0	6.6	3.7	2.9	0.1	84.3	20.8
2300	-1.3	4.4	98.8	-1.1	4.4	98.8	-0.9	4.6	100.0	5.9	3.6	2.1	0.1	46.0	12.4
2330	-1.6	4.3	100.0	-1.4	4.3	98.6	-1.2	4.5	100.0	4.8	5.0	1.8	0.1	38.1	11.1
Max	3.8	5.0	100.0	4.0	5.1	98.8	4.8	5.5	100.0	11.7	5.0	3.5	0.4	399.3	73.9
Min	-1.6	4.0	76.1	-1.4	4.0	77.0	-1.2	4.1	79.1	1.4	1.1	0.3	-0.1	16.2	6.6
Ave	0.8	4.5	87.3	1.0	4.5	87.0	1.2	4.7	89.1	5.5	3.1	2.2	0.2	138.2	28.9
Sum														11.9	2.5

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
6.3	-14.0		44.8	0.30	11.84	8.79	5.91	300	0.31	0.64	0.000	8.48	342.4	349.4
1.9	-15.0		30.0	0.32	10.55	8.04	5.39	293	0.25	0.56	0.000	7.58	343.0	
-1.7	-14.7		19.1	0.34	10.71	8.22	5.38	293	0.28	0.58	0.000	8.31	343.1	349.6 A
-4.1	-14.7		14.4	0.36	10.02	7.23	4.97	293	0.35	0.55	0.000	7.05	343.5	
-3.7	-13.8		10.2	0.39	10.42	7.76	5.30	294	0.57	0.62	0.000	9.64	343.9	349.6 A
-4.3	-12.6		8.6	0.40	10.13	7.77	4.96	290	0.32	0.55	0.001	7.13	343.9	
-3.9	-11.9		8.1	0.41	10.02	7.43	5.01	290	0.30	0.54	0.000	7.02	343.9	349.6 A
-4.5	-11.8		10.2	0.40	9.43	7.21	4.87	288	0.23	0.49	0.000	6.72	344.0	
-3.9	-11.3		12.5	0.39	9.49	6.76	4.53	288	0.58	0.56	0.000	8.03	344.1	349.7 A
-1.9	-10.8		16.5	0.38	8.94	6.76	4.33	285	0.37	0.50	0.000	7.08	344.3	
1.0	-9.7		27.7	0.33	8.25	6.44	3.97	289	0.35	0.46	0.001	6.57	344.4	349.9 A
5.3	-8.0		51.6	0.29	8.01	5.96	4.04	287	0.32	0.44	0.000	6.28	344.6	
7.0	-8.8		132.2	0.26	7.51	5.72	3.78	290	0.27	0.40	0.001	5.20	344.2	349.8 A
34.7	-1.9		116.7	0.25	8.44	6.56	4.61	294	0.16	0.42	-0.001	5.85	344.4	
38.5	-1.7		122.0	0.25	8.12	6.20	4.13	298	0.26	0.43	-0.001	6.25	344.4	350.0 A
34.1	0.4		112.9	0.25	7.06	5.33	3.57	299	0.43	0.40	-0.002	6.11	344.4	
45.4	2.6		135.0	0.23	7.08	5.35	3.59	290	0.32	0.39	0.000	5.52	344.5	349.9 A
68.6	8.5		222.1	0.21	7.87	5.87	4.14	295	0.21	0.41	-0.002	5.46	344.4	
105.8	19.0		344.1	0.20	6.37	4.80	3.10	292	0.36	0.36	-0.002	5.32	344.3	349.9 A
114.3	27.6		508.8	0.21	5.98	4.58	3.14	295	0.20	0.30	-0.009	4.37	344.1	
113.5	29.7		504.3	0.20	5.48	4.29	2.78	288	0.26	0.29	-0.007	4.47	344.1	349.6 A
96.6	25.5		420.2	0.20	4.84	3.83	2.43	286	0.29	0.26	-0.006	4.19	343.8	
188.2	45.2		731.3	0.19	5.20	4.11	2.49	285	0.36	0.30	-0.010	4.86	343.4	349.7 A
106.0	37.4		523.0	0.19	4.85	3.69	2.58	284	0.19	0.25	-0.012	4.05	343.6	
99.5	31.7		478.3	0.19	4.48	3.42	2.21	286	0.33	0.25	-0.010	4.08	343.7	349.6 A
88.7	29.0		422.1	0.19	4.49	3.21	2.26	288	1.15	0.29	-0.013	5.85	343.8	
64.7	20.9		319.7	0.19	4.31	3.33	2.02	288	0.45	0.25	-0.006	3.88	343.9	350.0 D
82.8	12.4		250.2	0.20	3.93	2.96	1.86	278	0.86	0.25	-0.006	4.48	344.0	
212.3	61.7		872.1	0.18	3.46	2.69	1.82	263	0.75	0.21	-0.048	5.58	343.6	350.0 V
136.1	55.4		542.6	0.18	4.07	3.06	2.05	274	1.17	0.27	-0.019	6.28	343.6	
-2.0	49.5		661.4	0.18	3.60	2.85	1.91	282	0.21	0.19	-0.024	3.76	343.5	350.0 V
-2.0	70.3		790.6	0.18	3.12	2.56	1.67	297	0.15	0.16	-0.049	3.31	343.6	
-2.0	94.5		972.5	0.19	2.76	2.28	1.32	328	0.45	0.17	-0.034	3.85	343.5	350.0 D
-2.0	50.5		443.7	0.19	3.18	2.46	1.41	235	0.75	0.20	-0.019	3.75	344.0	
129.3	36.7		460.7	0.19	3.01	2.32	1.31	23	0.85	0.20	-0.019	3.81	343.5	349.6
														349.7
112.0	50.0		569.9	0.19	3.11	2.56	1.44	75	0.52	0.19	-0.022	3.86	343.4	
145.4	52.7		593.5	0.20	3.37	2.67	1.56	51	0.49	0.20	-0.020	3.92	343.2	349.6
144.4	45.8		543.7	0.21	3.28	2.78	1.64	12	0.30	0.19	-0.023	3.71	343.5	
142.7	38.9		561.1	0.22	3.95	2.93	1.78	26	0.64	0.24	-0.014	4.27	343.3	349.6
130.2	29.1		634.4	0.25	3.81	2.94	1.85	22	0.41	0.22	-0.016	4.07	343.4	
87.5	17.2		379.5	0.23	3.31	2.46	1.60	35	0.62	0.20	-0.024	4.03	343.8	349.6
61.9	8.4		257.2	0.22	2.80	2.19	1.47	29	0.36	0.16	-0.037	3.59	344.1	
50.5	4.0		208.6	0.23	2.75	2.10	1.27	39	0.50	0.16	-0.028	3.27	343.8	349.6
29.1	0.7		170.1	0.25	0.98	0.79	0.50	70	0.79	0.07	-0.118	2.49	343.9	
12.8	-6.4		82.6	0.27	2.17	1.54	1.12	51	1.53	0.15	-0.036	4.24	344.6	349.7
15.3	-9.1		60.5	0.29	2.25	1.75	1.12	50	0.38	0.13	-0.028	2.60	344.8	
212.3	94.5		972.5	0.41	11.84	8.79	5.91	328	1.53	0.64	0.001	9.64	344.8	350.0
-4.5	-15.0		8.1	0.18	0.98	0.79	0.50	12	0.15	0.07	-0.118	2.49	342.4	349.4
58.2	16.9		313.1	0.25	5.84	4.45	2.92	224	0.46	0.33	-0.014	5.22	343.8	349.7
5.0	1.5													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-1.6	4.8	100.0	-1.4	4.3	98.6	-1.3	4.5	100.0	4.6	2.7	2.8	0.1	28.2	9.1
030	-1.5	4.5	100.0	-1.4	4.3	98.1	-1.3	4.4	100.0	3.6	4.8	1.2	0.1	22.7	8.1
100	-1.4	4.4	100.0	-1.2	4.4	98.2	-1.2	4.4	99.2	3.6	2.4	3.1	0.2	25.5	9.0
130	-0.8	4.4	95.8	-0.7	4.4	96.5	-0.7	4.5	98.5	2.9	4.2	1.5	0.3	18.2	7.4
200	-0.6	4.5	96.7	-0.4	4.5	96.3	-0.5	4.6	97.9	3.0	2.4	3.2	0.2	16.0	6.9
230	-0.6	4.4	94.3	-0.5	4.4	94.4	-0.6	4.5	97.2	2.8	3.0	1.4	0.2	15.6	6.8
300	-0.8	4.5	98.9	-0.6	4.4	94.5	-0.7	4.5	97.4	2.4	3.4	3.2	0.2	15.8	6.8
330	-0.6	4.3	93.4	-0.4	4.4	93.9	-0.6	4.5	96.8	2.6	1.7	2.2	0.2	16.4	6.9
400	-0.4	4.2	89.6	-0.2	4.4	92.8	-0.4	4.5	96.2	2.1	3.4	1.2	0.3	19.3	7.5
430	-0.1	4.3	89.9	0.1	4.5	93.0	0.0	4.6	95.0	2.4	1.9	3.4	0.3	24.2	8.6
500	0.3	4.6	92.5	0.4	4.6	92.7	0.5	4.7	94.2	2.7	1.9	1.7	0.3	29.3	9.8
530	1.1	4.8	91.6	1.2	4.8	91.3	1.2	4.9	93.1	2.8	2.9	1.3	0.3	37.8	10.9
600	1.5	4.9	91.7	1.6	4.9	91.5	1.6	5.0	92.1	3.2	2.3	2.4	0.3	43.0	11.7
630	1.8	5.0	91.6	1.9	5.0	90.4	2.0	5.1	91.5	3.7	1.2	2.5	0.3	44.1	11.7
700	2.4	5.1	90.3	2.5	5.2	90.4	2.6	5.2	91.0	3.8	2.2	1.1	0.3	54.5	13.4
730	2.8	5.3	90.4	2.9	5.3	90.8	3.0	5.4	91.2	4.1	2.6	1.4	0.3	61.9	14.5
800	2.9	5.3	89.9	3.0	5.3	89.7	3.1	5.4	89.9	4.6	2.4	2.1	0.3	82.6	17.9
830	3.2	5.5	90.9	3.3	5.5	90.5	3.6	5.5	89.7	5.4	2.1	2.2	0.3	117.2	24.2
900	3.5	5.6	91.5	3.7	5.6	90.6	3.9	5.7	90.1	6.0	2.0	2.3	0.3	110.2	22.9
930	4.0	5.7	90.5	4.1	5.8	90.5	4.2	5.8	90.6	6.3	2.1	1.9	0.3	115.0	23.4
1000	4.2	5.8	90.7	4.3	5.9	91.0	4.5	5.9	90.4	6.6	1.9	1.9	0.3	90.3	18.7
1030	4.2	6.0	93.6	4.3	6.1	94.1	4.3	6.2	95.2	6.0	2.1	1.5	0.3	59.9	12.9
1100	4.3	6.2	95.3	4.4	6.2	95.4	4.4	6.3	96.8	5.9	1.8	1.3	0.3	65.3	13.4
1130	4.0	6.1	96.2	4.1	6.1	96.5	4.0	6.2	97.7	5.8	2.1	0.8	0.3	60.8	12.5
1200	3.6	6.0	97.5	3.7	6.1	97.8	3.7	6.1	98.8	5.5	1.9	0.9	0.3	49.0	10.7
1230	4.5	6.4	97.4	4.6	6.4	97.7	4.5	6.4	98.3	5.5	2.0	0.7	0.3	45.0	10.1
1300	4.6	6.4	96.8	4.7	6.5	97.3	4.7	6.5	98.2	5.8	2.3	0.5	0.3	78.3	14.9
1330	4.6	6.3	95.8	4.6	6.4	96.7	4.6	6.4	97.6	6.1	1.8	1.0	0.3	63.2	12.5
1400	4.4	6.3	96.9	4.4	6.3	97.3	4.4	6.4	97.8	5.7	1.6	1.6	0.3	48.0	10.2
1430	4.4	6.3	96.9	4.5	6.4	97.2	4.5	6.4	97.9	5.5	1.9	1.4	0.3	43.5	9.6
1500	4.5	6.3	97.0	4.6	6.4	97.4	4.6	6.4	97.7	5.5	1.5	1.5	0.3	46.0	10.0
1530	4.5	6.4	97.5	4.6	6.5	98.3	4.6	6.5	98.8	5.7	1.9	1.3	0.3	61.0	12.5
1600	4.6	6.5	98.3	4.7	6.5	98.3	4.7	6.6	99.0	5.7	1.9	1.3	0.3	46.1	10.4
1630	4.7	6.6	98.7	4.8	6.6	98.5	4.8	6.6	99.3	5.8	1.8	1.2	0.3	46.8	10.6
1700	4.7	6.6	98.9	4.8	6.6	98.6	4.8	6.6	99.2	5.6	2.2	1.1	0.3	32.4	8.5
1730	4.7	6.5	98.6	4.8	6.6	98.8	4.7	6.6	99.4	5.7	1.7	1.3	0.3	35.1	9.1
1800	4.7	6.6	99.1	4.8	6.6	99.0	4.8	6.6	99.3	5.7	2.0	1.4	0.3	41.0	10.1
1830	4.9	6.7	99.1	4.9	6.7	99.1	4.9	6.7	99.5	5.7	2.3	1.1	0.3	39.6	10.0
1900	5.3	6.9	99.7	5.4	6.9	99.8	5.4	6.9	99.8	5.8	2.4	1.3	0.3	40.6	10.2
1930	5.9	7.2	99.7	6.0	7.2	99.8	6.1	7.3	100.0	6.0	2.7	1.2	0.3	39.4	10.2
2000	7.8	8.1	99.3	7.8	8.2	100.0	7.7	8.1	100.0	6.5	3.6	1.1	0.3	37.3	10.0
2030	7.6	8.0	99.7	7.6	8.1	100.0	7.6	8.1	100.0	7.2	3.8	1.1	0.4	50.0	11.7
2100	7.0	7.7	99.6	7.0	7.8	100.0	7.0	7.8	100.0	8.1	6.4	5.5	0.4	62.6	13.6
2130	6.3	7.5	100.0	6.4	7.5	100.0	6.5	7.5	100.0	7.9	9.3	5.9	0.4	77.3	16.1
2200	5.8	7.1	99.6	5.9	7.2	100.0	6.0	7.3	100.0	8.1	8.3	4.4	0.3	68.3	14.5
2230	5.4	7.0	100.0	5.5	7.0	100.0	5.5	7.0	100.0	7.7	6.1	4.7	0.3	41.3	10.3
2300	4.7	6.7	100.0	4.8	6.7	100.0	4.9	6.7	100.0	6.8	6.7	4.3	0.3	31.6	8.7
2330	4.1	6.4	99.6	4.2	6.4	100.0	4.2	6.5	100.0	6.8	6.6	3.6	0.2	25.6	7.7
Max	7.8	8.1	100.0	7.8	8.2	100.0	7.7	8.1	100.0	8.1	9.3	5.9	0.4	117.2	24.2
Min	-1.6	4.2	89.6	-1.4	4.3	89.7	-1.3	4.4	89.7	2.1	1.2	0.5	0.1	15.6	6.8
Ave	3.2	5.9	96.1	3.3	5.9	96.1	3.3	6.0	96.9	5.2	3.0	2.0	0.3	48.4	11.6
Sum														4.2	1.0

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
0.5	-13.8		40.0	0.32	2.66	2.03	1.25	60	0.61	0.16	-0.014	2.93	344.9	349.8
-1.5	-15.6		24.8	0.36	2.54	1.86	1.18	57	1.92	0.19	-0.012	4.16	345.3	
0.0	-15.6		26.3	0.35	2.06	1.54	0.93	79	1.57	0.15	-0.017	3.18	345.6	350.0
-3.4	-14.6		11.9	0.41	2.06	1.40	0.89	115		0.17	-0.006	3.33	345.9	
-7.8	-13.3		7.8	0.43	1.65	1.12	0.55	108		0.16	-0.007	3.55	346.9	350.0
-4.4	-12.2		6.5	0.43	1.53	1.07	0.61	82		0.14	-0.002	2.84	347.2	
-7.0	-14.3		8.1	0.43	2.39	1.76	1.10	81	1.46	0.17	-0.005	3.23	347.0	349.9
-4.2	-12.7		8.9	0.42	2.62	1.85	1.19	86		0.20	-0.002	3.90	346.6	
-4.5	-11.5		13.5	0.39	2.47	1.73	1.09	102		0.19	0.001	3.79	346.4	349.8
1.1	-7.5		22.9	0.35	2.67	1.78	1.15	119		0.22	-0.005	4.34	346.1	
6.0	-4.8		34.7	0.34	3.08	1.96	1.32	131		0.24	-0.006	4.02	345.6	349.8
16.5	1.2		55.3	0.29	2.99	2.15	1.37	125	1.25	0.20	-0.002	3.63	345.5	
21.9	5.0		71.3	0.27	3.68	2.28	1.67	133		0.28	-0.006	4.63	345.1	349.8
19.5	6.9		77.4	0.27	3.19	2.14	1.44	128		0.24	-0.008	4.48	345.1	
26.0	11.4		103.8	0.25	3.42	2.28	1.50	142		0.27	-0.006	5.27	344.8	349.7
32.2	15.3		124.2	0.24	3.22	2.19	1.32	149		0.26	-0.005	5.23	344.5	
47.2	19.3		175.7	0.22	3.43	2.38	1.58	152		0.26	-0.008	5.33	344.1	349.4
71.2	27.5		260.4	0.21	3.65	2.45	1.73	142		0.27	-0.012	5.77	343.3	
66.9	30.0		251.2	0.21	3.64	2.28	1.70	138		0.28	-0.016	5.31	343.4	349.4
63.9	29.4		267.5	0.20	4.05	2.79	1.83	123		0.29	-0.008	5.66	343.4	
46.4	26.3		212.8	0.21	4.20	2.55	1.93	132		0.33	-0.008	5.63	343.7	349.5
30.5	18.6		134.6	0.22	3.90	2.63	1.84	124	1.93	0.28	-0.002	4.77	344.1	
39.2	19.9		146.3	0.21	4.49	3.07	2.06	118		0.33	-0.001	5.61	343.8	349.3 A
40.1	19.5		134.1	0.21	3.99	3.00	1.92	102	0.99	0.26	-0.002	4.57	343.6	
28.5	14.5		107.6	0.22	4.22	3.01	1.92	126	1.95	0.31	-0.003	5.83	343.5	349.5
24.9	17.7		95.8	0.22	4.56	2.96	2.06	121		0.34	-0.001	5.81	343.7	
45.1	23.9		179.6	0.19	5.15	3.52	2.57	126	1.37	0.35	-0.001	5.55	343.1	349.3 A
41.4	23.3		140.1	0.20	5.70	3.94	2.78	126	1.50	0.39	0.000	6.90	342.9	
30.9	17.9		103.8	0.21	6.21	3.90	2.79	131		0.47	0.000	7.92	342.7	349.3 A
26.4	17.3		90.6	0.22	6.11	3.98	2.82	129		0.45	0.000	7.39	342.5	
28.2	17.6		96.5	0.22	5.59	3.61	2.81	132	1.81	0.39	-0.001	5.82	342.3	348.9 D
37.9	21.5		133.4	0.20	6.13	3.86	2.77	137		0.46	-0.001	7.78	341.7	
26.1	20.0		94.5	0.23	5.02	3.35	2.15	128		0.38	-0.001	6.28	341.9	348.6
28.3	20.2		96.1	0.23	4.72	3.33	2.23	123	1.64	0.33	-0.001	5.88	341.9	
18.5	17.6		57.6	0.26	5.08	3.31	2.28	124		0.38	0.000	6.47	341.9	348.6
21.3	17.3		62.9	0.26	5.06	3.31	2.31	125		0.37	0.000	5.94	341.8	
22.6	18.7		76.6	0.25	4.77	3.25	2.20	129	1.93	0.34	-0.002	6.06	341.6	348.7
21.8	19.4		72.2	0.25	4.24	2.81	1.97	127		0.31	-0.002	4.87	341.6	
21.7	21.7		72.9	0.25	2.78	1.70	1.28	134		0.22	-0.006	4.21	341.9	350.4 V
21.9	24.0		68.0	0.26	1.90	1.20	0.72	170		0.17	-0.008	3.61	343.5	
24.5	32.9		60.0	0.27	4.54	3.28	2.32	260	1.10	0.30	0.001	5.17	341.4	346.3 V
34.3	36.8		89.8	0.23	5.42	4.15	2.78	270	0.23	0.28	0.000	3.71	338.3	
42.6	35.6		119.7	0.22	6.32	4.53	2.90	269	1.44	0.44	0.000	7.78	338.2	347.2 V
44.2	34.2		148.3	0.21	5.51	3.99	2.82	275	1.13	0.37	-0.003	7.19	339.1	
34.5	29.5		129.8	0.21	4.83	3.74	2.37	279	0.34	0.27	-0.003	4.00	340.4	350.0 V
22.8	22.4		67.0	0.25	4.40	3.22	2.29	285	0.95	0.28	-0.004	5.48	343.0	
16.9	16.5		43.8	0.28	4.07	3.06	2.00	296	0.89	0.26	-0.003	4.86	342.6	349.1 V
12.2	12.9		28.6	0.30	3.38	2.52	1.56	324	1.32	0.23	-0.003	4.37	342.2	
71.2	36.8		267.5	0.43	6.32	4.53	2.90	324	1.95	0.47	0.001	7.92	347.2	350.4
-7.8	-15.6		6.5	0.19	1.53	1.07	0.55	57	0.23	0.14	-0.017	2.84	338.2	346.3
24.5	13.1		92.8	0.27	3.94	2.70	1.83	147	1.30	0.28	-0.004	5.08	343.4	349.3
2.1	1.1													

Central Marsh August 1

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	3.6	6.1	99.4	3.6	6.2	100.0	3.7	6.2	100.0	6.3	4.5	3.6	0.2	25.5	8.0
030	3.5	6.1	99.7	3.6	6.2	100.0	3.6	6.2	100.0	5.9	3.4	3.6	0.2	22.2	7.6
100	3.6	6.2	100.0	3.7	6.2	100.0	3.7	6.2	100.0	5.5	3.0	3.4	0.4	17.7	6.9
130	3.9	6.3	99.8	4.0	6.3	99.1	3.9	6.3	100.0	5.3	3.7	3.5	0.4	14.7	6.4
200	3.9	6.3	99.9	4.1	6.3	98.3	4.0	6.3	100.0	5.4	5.1	4.5	0.3	14.1	6.2
230	3.9	6.2	99.0	4.0	6.3	98.7	3.9	6.3	99.9	5.3	5.5	3.9	0.3	13.7	4.0
300	3.7	6.2	99.1	3.9	6.2	98.1	3.7	6.2	100.0	5.1	3.5	2.9	0.3	13.5	6.0
330	3.5	6.1	99.8	3.6	6.1	98.5	3.6	6.2	100.0	5.1	3.6	3.1	0.3	13.4	5.9
400	3.3	6.1	100.0	3.5	6.1	100.0	3.4	6.1	100.0	5.2	4.8	3.7	0.3	13.4	6.0
430	3.5	6.2	100.0	3.6	6.2	100.0	3.6	6.2	100.0	5.1	6.0	3.7	0.5	14.5	6.3
500	3.7	6.2	100.0	3.8	6.3	100.0	3.7	6.3	100.0	5.2	4.9	3.3	0.6	14.8	6.3
530	3.8	6.3	100.0	3.9	6.4	100.0	3.9	6.4	100.0	5.2	5.8	3.2	0.6	15.5	6.4
600	5.3	6.9	99.3	5.4	7.0	100.0	5.3	7.0	100.0	5.5	4.7	2.6	0.4	16.6	7.1
630	6.3	7.3	99.5	6.3	7.5	100.0	6.2	7.4	100.0	6.3	3.3	3.0	0.4	20.1	7.1
700	5.7	7.2	100.0	5.8	7.2	100.0	5.7	7.2	100.0	6.7	5.8	4.5	0.4	25.0	7.8
730	5.1	6.9	100.0	5.2	6.9	100.0	5.2	6.9	100.0	6.6	7.7	4.4	0.4	23.8	7.7
800	5.0	6.8	100.0	5.0	6.8	100.0	5.0	6.8	100.0	6.6	7.6	2.4	0.4	24.8	7.8
830	4.6	6.7	100.0	4.7	6.7	100.0	4.7	6.7	100.0	6.9	6.7	3.6	0.4	28.1	8.2
900	3.8	6.3	100.0	4.0	6.4	100.0	4.0	6.4	100.0	6.9	6.2	4.1	0.3	52.1	11.8
930	3.2	6.1	100.0	3.3	6.1	100.0	3.4	6.2	100.0	6.9	6.5	4.3	0.3	59.8	13.0
1000	2.4	5.7	100.0	2.5	5.8	100.0	2.6	5.9	100.0	6.3	5.5	3.7	0.2	57.8	12.5
1030	2.1	5.6	100.0	2.2	5.7	100.0	2.4	5.8	100.0	6.5	5.9	3.4	0.2	69.3	14.1
1100	2.0	5.6	100.0	2.1	5.6	100.0	2.3	5.7	100.0	6.2	4.3	3.2	0.2	74.7	15.0
1130	2.2	5.7	100.0	2.4	5.7	100.0	2.6	5.8	100.0	6.0	2.7	2.6	0.3	81.7	16.2
1200	2.3	5.6	99.4	2.4	5.7	100.0	2.6	5.9	100.0	5.9	3.1	2.6	0.2	72.9	14.6
1230	2.3	5.6	99.7	2.4	5.7	100.0	2.6	5.8	100.0	5.8	2.8	2.7	0.3	72.3	14.3
1300	2.3	5.7	100.0	2.5	5.8	100.0	2.7	5.9	100.0	5.7	2.6	2.8	0.3	68.0	13.6
1330	2.3	5.7	100.0	2.4	5.7	100.0	2.6	5.8	100.0	5.7	2.7	2.8	0.3	67.9	13.5
1400	2.1	5.7	100.0	2.3	5.7	100.0	2.5	5.8	100.0	5.8	2.0	3.4	0.2	65.2	13.1
1430	2.0	5.6	100.0	2.2	5.7	100.0	2.4	5.8	100.0	5.7	2.0	2.5	0.3	68.9	13.6
1500	1.9	5.5	99.3	2.0	5.6	100.0	2.3	5.7	100.0	5.7	2.5	2.1	0.3	91.7	17.1
1530	2.2	5.5	98.5	2.3	5.7	100.0	2.6	5.9	100.0	6.2	3.5	1.9	0.3	122.9	21.9
1600	2.5	5.6	97.2	2.7	5.7	97.8	3.0	6.0	100.0	6.8	3.3	2.7	0.4	146.4	25.8
1630	3.0	5.7	96.2	3.2	5.8	96.2	3.5	6.2	100.0	7.7	3.2	2.7	0.4	206.3	34.8
1700	2.8	5.6	95.7	3.1	5.7	95.8	3.4	6.2	100.0	8.9	5.6	4.2	0.3	219.5	37.1
1730	2.9	5.6	95.4	3.3	5.7	94.5	3.6	6.2	100.0	9.8	6.2	5.0	0.3	264.8	45.7
1800	2.9	5.5	93.7	3.2	5.6	93.3	3.5	6.0	98.7	9.6	3.8	3.1	0.3	217.7	38.8
1830	2.7	5.4	93.2	2.8	5.5	93.6	3.1	5.7	95.9	8.4	3.5	3.3	0.3	128.2	24.4
1900	2.5	5.4	93.5	2.8	5.5	93.5	3.1	5.7	95.4	8.2	3.5	3.2	0.3	144.0	26.5
1930	2.3	5.2	92.7	2.5	5.4	93.6	2.8	5.6	95.3	7.9	3.9	3.5	0.2	131.1	24.8
2000	2.2	5.2	92.4	2.4	5.3	92.9	2.6	5.5	95.0	7.4	3.9	3.2	0.2	79.5	16.1
2030	2.0	5.2	94.3	2.1	5.3	95.2	2.2	5.4	96.8	6.2	3.9	2.9	0.3	32.0	8.5
2100	2.0	5.3	96.1	2.1	5.4	96.6	2.2	5.5	98.4	5.4	4.0	2.9	0.3	38.1	9.5
2130	2.0	5.3	96.3	2.1	5.4	96.2	2.2	5.5	98.1	5.4	3.0	3.8	0.3	33.5	8.8
2200	1.9	5.4	97.4	2.1	5.4	96.5	2.1	5.5	98.0	5.3	2.5	3.8	0.3	28.2	8.0
2230	1.8	5.3	96.2	2.0	5.3	96.3	2.0	5.4	98.5	5.0	2.6	2.4	0.3	21.8	7.2
2300	1.8	5.3	96.0	1.9	5.3	96.4	1.9	5.5	99.0	5.0	6.5	3.6	0.3	22.0	7.4
2330	1.8	5.3	97.3	1.9	5.3	96.9	2.0	5.5	98.9	4.8	4.4	3.7	0.3	20.6	7.3
Max	6.3	7.3	100.0	6.3	7.5	100.0	6.2	7.4	100.0	9.8	7.7	5.0	0.6	264.8	45.7
Min	1.8	5.2	92.4	1.9	5.3	92.9	1.9	5.4	95.0	4.8	2.0	1.9	0.2	13.4	4.0
Ave	3.0	5.9	98.2	3.2	5.9	98.3	3.3	6.1	99.3	6.3	4.3	3.3	0.3	64.4	13.7
Sum														5.6	1.2

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
17.8	10.6		27.0	0.31	2.32	1.72	1.05	313	0.82	0.15	-0.007	2.48	342.8	349.4 D
14.8	9.6		18.5	0.34	2.32	1.70	1.06	294		0.17	-0.010	3.68	343.1	
12.0	8.4		8.8	0.39	2.31	1.65	0.98	267		0.18	-0.009	3.63	343.7	350.3 V
9.7	7.6		3.1	0.44	1.90	1.28	0.76	276		0.16	-0.005	3.35	345.1	
8.0	8.4		1.9	0.44	2.58	1.92	1.22	283	0.79	0.16	-0.003	2.74	343.7	349.4
6.9	8.3		1.7	0.29	2.25	1.68	1.03	286	1.56	0.16	-0.001	3.03	343.7	
7.1	7.8		1.0	0.44	2.50	1.80	1.12	302		0.19	-0.002	3.85	343.6	349.2
7.4	7.3		1.1	0.44	2.01	1.45	0.98	300	1.11	0.13	-0.009	2.60	343.6	
7.3	6.5		1.5	0.44	0.89	0.42	0.33	291		0.10	-0.048	1.85	345.0	350.9 V
8.7	6.9		3.7	0.44	0.76	0.29	0.27	267		0.11	-0.083	1.52	347.7	
9.4	7.9		4.5	0.43	1.22	0.56	0.38	238		0.15	-0.009	2.27	348.4	352.9 V
11.0	9.3		6.2	0.42	1.07	0.29	0.34	230		0.16	-0.013	2.49	348.9	
11.5	14.5		7.4	0.43	3.03	2.10	1.39	264		0.23	0.002	4.12	346.4	345.7 V
13.2	25.2		18.1	0.35	6.41	4.98	3.33	275	0.21	0.33	0.001	4.65	338.8	
17.6	23.6		29.6	0.31	7.08	5.28	3.43	284	0.69	0.43	0.000	6.91	337.5	345.0 D
16.6	19.1		27.6	0.32	6.08	4.36	2.83	278	0.80	0.38	-0.001	5.77	337.5	
17.0	17.5		30.5	0.31	5.77	4.24	2.87	276	0.46	0.33	0.000	4.91	337.8	345.6 V
21.8	16.6		40.1	0.29	7.21	5.56	3.57	285	0.30	0.39	-0.001	5.45	337.8	
38.9	17.2		99.9	0.23	5.30	4.11	2.51	302	0.39	0.30	-0.002	4.10	340.6	348.9
49.2	16.9		118.8	0.22	4.93	3.67	2.39	302	0.50	0.29	-0.004	4.29	341.9	
47.8	13.4		117.6	0.22	4.46	3.28	2.07	317	0.63	0.27	-0.005	4.05	342.2	348.9 NC
55.1	14.7		146.3	0.20	4.30	3.17	1.89	326	1.39	0.30	-0.005	5.34	341.9	
59.1	17.7		160.8	0.20	3.38	2.41	1.57	326	1.84	0.24	-0.011	5.21	342.0	348.8 NC
56.9	20.7		178.1	0.20	2.79	2.09	1.35	319	0.93	0.18	-0.020	3.89	342.2	
51.8	19.8		159.2	0.20	2.91	2.19	1.36	314	1.61	0.21	-0.014	4.53	342.5	348.6 NC
53.5	18.6		161.1	0.20	2.56	2.00	1.28	303	0.62	0.16	-0.018	3.21	342.5	
48.6	17.6		150.2	0.20	2.72	2.00	1.38	292	1.27	0.18	-0.023	4.22	342.6	348.7 NC
49.9	17.5		150.6	0.20	2.94	2.18	1.42	311	0.75	0.18	-0.015	3.52	342.7	
50.9	16.2		145.7	0.20	2.58	2.00	1.20	305	0.63	0.16	-0.019	2.90	342.8	348.6 NC
54.8	16.3		155.2	0.20	3.01	2.22	1.39	301	1.18	0.20	-0.018	3.95	342.7	
99.6	19.0		209.4	0.19	2.57	1.87	1.13	300		0.19	-0.019	4.42	342.8	348.6 NC
117.6	30.9		284.0	0.18	2.40	1.84	1.17	300	0.54	0.14	-0.032	3.04	342.6	
153.3	36.0		345.2	0.18	2.22	1.73	1.10	276	0.96	0.15	-0.040	3.75	342.6	348.9 D
170.9	49.7		486.7	0.17	3.08	2.45	1.56	293	0.30	0.17	-0.021	3.15	343.3	
200.3	55.9		520.6	0.17	3.21	2.52	1.77	301	0.37	0.18	-0.028	4.23	343.3	349.2 V
145.3	63.0		621.9	0.17	3.34	2.49	1.74	303	0.57	0.20	-0.029	4.58	343.2	
109.1	54.0		507.1	0.18	3.55	2.80	1.94	297	0.13	0.17	-0.029	3.19	343.8	349.9 D
112.6	30.2		296.5	0.19	3.44	2.69	1.73	309	0.31	0.19	-0.016	3.41	344.2	
101.5	31.8		333.6	0.18	3.44	2.67	1.78	318	0.24	0.18	-0.020	3.41	344.3	350.5 D
55.6	28.7		302.5	0.19	3.18	2.47	1.59	319	0.35	0.18	-0.017	3.39	344.7	
19.1	19.8		176.3	0.20	2.79	2.19	1.43	309	0.26	0.15	-0.019	2.87	345.4	351.0 A
23.1	3.1		55.8	0.27	2.85	2.23	1.44	300	0.29	0.15	-0.012	2.50	346.4	
22.4	2.9		68.4	0.25	2.31	1.69	1.05	288		0.17	-0.013	3.93	346.3	351.0 A
17.1	3.7		56.0	0.26	2.35	1.76	1.11	301	1.27	0.16	-0.013	3.36	346.4	
12.4	2.4		42.0	0.29	2.09	1.49	0.81	311		0.17	-0.015	3.73	347.0	351.1 A
12.8	0.7		25.1	0.33	1.66	1.16	0.69	310		0.14	-0.015	3.16	347.1	
11.4	0.5		24.6	0.33	1.08	0.69	0.29	325		0.12	-0.016	2.88	347.2	350.9 A
10.3	0.9		19.1	0.35	0.62	0.31	0.28	217		0.09	-0.206	2.27	347.2	
200.3	63.0		621.9	0.44	7.21	5.56	3.57	326	1.84	0.43	0.002	6.91	348.9	352.9
6.9	0.5		1.0	0.17	0.62	0.29	0.27	217	0.13	0.09	-0.206	1.52	337.5	345.0
46.4	17.8		132.3	0.28	3.04	2.24	1.44	294	0.73	0.20	-0.019	3.66	343.5	349.2
4.0	1.5													

Central Marsh August 2

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	1.8	5.4	98.5	1.9	5.4	97.5	2.0	5.5	99.3	4.9	3.0	4.3	0.3	19.7	7.1
030	1.9	5.2	95.4	2.0	5.3	96.5	2.0	5.4	98.7	4.6	2.3	1.8	0.5	15.4	6.4
100	1.9	5.3	96.6	2.0	5.4	96.9	2.0	5.5	99.0	4.2	3.4	2.3	0.6	14.5	6.4
130	2.0	5.5	98.6	2.1	5.5	97.5	2.1	5.5	98.8	4.2	1.7	3.8	0.6	14.0	6.3
200	2.1	5.5	98.0	2.2	5.5	98.7	2.2	5.6	99.6	4.3	1.4	2.0	0.6	13.6	6.3
230	2.3	5.6	99.2	2.4	5.6	99.1	2.4	5.7	99.9	4.0	3.9	2.1	0.7	13.6	6.3
300	2.5	5.8	100.0	2.7	5.8	100.0	2.7	5.8	100.0	4.3	2.9	4.5	0.5	13.7	6.3
330	2.8	5.7	98.1	2.8	5.8	99.9	2.8	5.9	100.0	4.8	5.9	2.9	0.6	14.0	6.2
400	2.9	5.9	99.7	3.0	5.9	99.5	3.0	6.0	100.0	4.7	7.5	4.7	0.5	14.2	6.3
430	3.2	5.9	98.7	3.3	6.0	99.2	3.1	6.0	100.0	5.1	4.0	4.1	0.5	15.6	6.5
500	3.1	5.8	97.8	3.1	5.9	98.9	3.1	6.0	100.0	5.0	6.4	2.6	0.5	16.0	6.4
530	3.4	6.0	99.2	3.5	6.1	99.2	3.4	6.1	100.0	4.9	6.2	3.7	0.5	21.0	7.1
600	3.7	6.2	99.9	3.8	6.2	99.3	3.7	6.2	100.0	5.7	6.4	4.3	0.4	22.5	7.4
630	4.1	6.3	99.6	4.1	6.4	99.5	4.1	6.4	99.8	5.2	3.4	3.6	0.4	25.9	8.1
700	4.4	6.5	99.9	4.4	6.6	100.0	4.5	6.6	100.0	5.2	2.9	3.1	0.5	29.5	8.4
730	4.7	6.6	99.9	4.8	6.7	100.0	4.8	6.8	100.0	5.4	2.2	2.0	0.5	38.1	9.7
800	5.5	7.0	100.0	5.6	7.1	100.0	5.6	7.1	100.0	6.1	5.5	3.2	0.5	45.2	11.0
830	5.5	7.1	100.0	5.6	7.2	100.0	5.6	7.1	100.0	7.3	7.1	4.7	0.5	58.3	12.1
900	5.0	6.9	100.0	5.1	6.9	100.0	5.2	6.9	100.0	8.5	7.5	4.5	0.5	53.6	11.5
930	4.8	6.7	100.0	4.9	6.8	100.0	4.9	6.8	100.0	9.0	6.9	4.5	0.4	51.4	11.2
1000	4.2	6.5	100.0	4.3	6.6	100.0	4.4	6.6	100.0	9.0	6.8	4.5	0.3	60.7	12.1
1030															
1100	3.2	6.0	100.0	3.4	6.1	100.0	3.6	6.2	100.0	6.5	3.3	2.2	0.3	84.5	15.8
1130	3.0	6.0	100.0	3.3	6.1	100.0	3.5	6.2	100.0	7.0	2.9	3.2	0.2	128.9	22.0
1200	3.2	6.1	100.0	3.5	6.2	100.0	3.8	6.3	100.0	7.8	2.7	4.3	0.2	157.4	26.5
1230	2.8	5.9	100.0	3.1	6.0	100.0	3.4	6.2	100.0	8.5	2.4	3.8	0.2	175.0	28.8
1300	2.4	5.7	99.5	2.6	5.8	100.0	3.0	6.0	100.0	8.4	3.8	2.4	0.3	169.3	30.5
1330	2.5	5.8	100.0	2.8	5.9	100.0	3.1	6.0	100.0	8.5	4.6	3.6	0.3	144.6	28.8
1400	2.4	5.7	100.0	2.6	5.8	100.0	2.9	5.9	100.0	8.3	3.2	4.9	0.2	114.7	23.8
1430	2.2	5.5	98.4	2.4	5.7	99.9	2.7	5.9	100.0	8.1	4.3	2.4	0.3	128.3	24.2
1500	2.1	5.6	100.0	2.2	5.6	100.0	2.5	5.8	100.0	7.7	4.3	4.8	0.2	111.9	20.7
1530	2.2	5.6	99.0	2.4	5.7	99.7	2.7	5.9	100.0	7.9	2.7	5.7	0.2	125.1	21.9
1600	2.3	5.5	98.1	2.4	5.7	100.0	2.7	5.9	100.0	8.0	5.1	3.6	0.2	141.5	23.6
1630	1.9	5.6	100.0	2.2	5.6	100.0	2.4	5.8	100.0	8.5	6.4	0.0	0.7	116.9	20.2
1700	2.0	5.4	97.5	2.1	5.6	99.6	2.5	5.8	100.0	8.2	3.6	1.7	0.5	156.3	25.4
1730	1.9	5.5	99.3	2.1	5.6	100.0	2.4	5.8	100.0	8.0	4.2	4.5	0.3	129.5	21.6
1800	1.9	5.4	98.6	2.0	5.5	99.9	2.3	5.7	100.0	7.9	3.0	3.4	0.3	114.3	20.0
1830	2.0	5.5	98.8	2.2	5.6	100.0	2.5	5.8	100.0	7.4	4.9	3.0	0.3	103.0	18.6
1900	1.9	5.5	99.6	2.1	5.6	100.0	2.3	5.7	100.0	7.2	4.2	4.1	0.3	96.7	17.3
1930	1.8	5.4	99.5	1.9	5.5	100.0	2.1	5.7	100.0	6.9	3.5	4.5	0.3	97.0	17.6
2000	1.7	5.3	98.6	1.8	5.4	99.4	1.9	5.5	100.0	6.5	4.3	1.7	0.3	96.0	17.6
2030	1.7	5.3	98.4	1.8	5.4	99.3	1.9	5.6	100.0	6.2	3.8	4.8	0.3	82.8	16.2
2100	1.8	5.4	98.9	1.9	5.5	99.7	2.0	5.6	100.0	6.0	3.4	6.3	0.3	67.4	13.9
2130	1.5	5.3	99.5	1.6	5.4	100.0	1.7	5.5	100.0	5.9	3.0	6.0	0.4	66.0	14.7
2200	0.9	5.1	98.5	1.0	5.2	100.0	1.1	5.3	100.0	5.5	4.5		0.3	44.8	
2230	0.5	5.0	98.9	0.6	5.0	99.4	0.7	5.1	100.0	5.1	5.0		0.3	34.1	
2300	0.4	4.9	98.8	0.4	4.9	99.6	0.5	5.0	100.0	4.7	4.7		0.3	36.0	
2330	0.3	4.8	97.2	0.3	4.9	99.9	0.3	5.0	100.0	4.6	3.6		0.3	46.2	
Max	5.5	7.1	100.0	5.6	7.2	100.0	5.6	7.1	100.0	9.0	7.5	6.3	0.7	175.0	30.5
Min	0.3	4.8	95.4	0.3	4.9	96.5	0.3	5.0	98.7	4.0	1.4	0.0	0.2	13.6	6.2
Ave	2.6	5.8	99.1	2.7	5.8	99.5	2.9	5.9	99.9	6.4	4.2	3.6	0.4	71.0	14.9
Sum														6.1	1.3

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
6.2	1.4		16.6	0.36	0.70	0.38	0.26	44		0.10	-0.067	2.45	347.4	351.3 V
6.2	0.5		6.6	0.42	0.22	0.18	0.27	62		0.26			348.1	
6.1	0.1		4.0	0.44	0.24	0.18	0.29	170		0.29			347.7	351.2 V
5.4	0.1		2.7	0.45	0.38	0.24	0.29	151		0.09	-0.654	2.60	348.4	
6.2	0.2		1.1	0.46	0.85	0.45	0.29	165		0.11	-0.046	2.06	349.9	353.5 V
5.9	0.8		0.8	0.47	1.32	0.84	0.36	178		0.15	-0.011	3.17	351.7	
6.4	2.2		1.0	0.46	1.52	0.89	0.41	161		0.16	-0.017	3.07	349.6	351.2 V
7.4	3.5		1.9	0.45	2.18	1.41	0.96	152		0.17	-0.003	3.10	348.0	
8.3	4.8		2.6	0.44	2.51	1.52	1.09	143		0.20	-0.004	3.37	346.2	350.7 D
9.1	6.3		5.9	0.41	3.27	2.17	1.53	120		0.24	0.003	3.82	345.7	
14.2	6.6		7.9	0.40	3.95	2.65	1.70	122		0.30	0.002	5.28	344.9	350.2 D
13.7	9.0		20.5	0.34	4.02	2.64	1.76	125		0.31	0.000	5.19	344.2	
18.0	11.7		24.2	0.33	3.99	2.72	1.74	121		0.30	0.000	4.74	343.3	349.8 V
21.9	13.6		30.1	0.31	3.26	2.14	1.52	131		0.25	-0.002	4.31	343.2	
26.7	16.2		40.9	0.29	1.76	1.10	0.64	155		0.17	-0.006	3.32	344.1	352.6 V
38.4	18.5		62.5	0.25	1.01	0.40	0.28	145		0.14	-0.023	2.19	345.7	
48.1	24.8		80.5	0.24	2.02	1.26	0.81	264		0.17	-0.008	3.08	348.0	355.9 V
39.0	31.9		116.4	0.21	4.14	3.31	1.97	278	0.44	0.24	-0.002	3.69	349.2	
35.9	29.3		105.0	0.21	3.39	2.45	1.56	276	1.91	0.25	-0.005	5.19	347.6	352.9 V
44.2	25.7		102.4	0.22	3.09	2.26	1.47	286	1.02	0.20	-0.005	3.76	345.7	
57.2	26.4		126.8	0.20	2.52	1.77	1.12	309		0.19	-0.011	3.99	343.4	349.5 V
64.8	28.6		187.2	0.19	1.91	1.40	0.88	332	1.82	0.14	-0.034	3.78	342.4	349.6 V
106.7	39.4		293.6	0.17	2.55	2.04	1.18	328	0.57	0.16	-0.021	3.15	341.7	
134.2	49.2		364.9	0.17	3.01	2.34	1.40	292	0.62	0.19	-0.016	3.52	341.6	349.8
133.7	53.0		407.9	0.16	3.43	2.63	1.58	304	0.91	0.22	-0.015	4.36	341.7	
138.0	46.9		395.4	0.18	3.61	2.75	1.61	108	1.08	0.24	-0.012	4.61	342.0	349.9
109.7	45.6		344.4	0.20	3.33	2.59	1.44	150	0.72	0.21	-0.017	3.68	342.1	
88.8	33.3		270.6	0.21	3.81	2.82	1.60	77	1.63	0.28	-0.009	5.20	342.9	350.3 A
103.9	35.5		305.9	0.19	3.75	3.08	1.55	87	0.99	0.26	-0.007	4.37	343.0	
90.5	29.4		266.9	0.18	3.44	2.62	1.39	163	1.00	0.23	-0.010	3.76	343.5	350.3 A
95.7	32.0		289.0	0.17	2.47	2.09	1.07	75	0.82	0.17	-0.017	3.19		
110.1	40.3		339.8	0.17	2.79	2.20	1.20	50	0.94	0.19	-0.015	3.46		349.9 D
90.5	32.5		278.4	0.17	2.75	2.09	1.09	208	1.24	0.19	-0.017	3.46		
115.6	39.0		369.8	0.16	2.76	2.18	1.25	254	0.63	0.17	-0.019	3.22		349.6 D
91.9	35.5		302.9	0.17	3.18	2.37	1.37	336	0.93	0.21	-0.015	3.78		
84.0	27.7		265.4	0.18	3.22	2.51	1.56	333	0.38	0.18	-0.017	3.21		349.9 D
72.9	26.6		231.0	0.18	2.62	2.05	1.31	319	0.30	0.14	-0.030	2.78		
71.7	22.8		215.9	0.18	3.28	2.54	1.56	322	0.40	0.19	-0.015	3.20		349.6 D
77.5	21.0		216.1	0.18	4.23	3.06	1.95	326	1.93	0.31	-0.009	6.24		
70.5	17.3		214.4	0.18	4.68	3.59	2.33	325	0.31	0.26	-0.005	4.02		349.2 A
56.2	13.2		177.5	0.20	4.52	3.40	2.02	313	0.78	0.28	-0.004	4.54		
45.6	11.7		137.2	0.21	4.00	2.94	1.85	303	0.82	0.25	-0.006	4.13		349.2 A
43.4	9.9		130.6	0.22	4.06	3.08	2.01	307	0.70	0.26	-0.005	4.63		
29.3	0.7		80.5		4.74	3.35	2.07	307	1.98	0.35	-0.004	6.50		349.1 A
18.5	-3.8		50.8		3.91	3.01	1.88	312	0.51	0.23	-0.004	3.76		
13.1	-6.8		51.2		3.67	2.79	1.73	308	0.46	0.21	-0.003	3.26		349.0 A
11.4	-8.4		57.6		3.90	3.04	1.95	310	0.28	0.21	-0.001	2.90		
138.0	53.0		407.9	0.47	4.74	3.59	2.33	336	1.98	0.35	0.003	6.50	351.7	355.9
5.4	-8.4		0.8	0.16	0.22	0.18	0.26	44	0.28	0.09	-0.654	2.06	341.6	349.0
53.0	19.3		149.0	0.26	2.89	2.12	1.30	215	0.90	0.21	-0.026	3.80	345.4	350.6
4.6	1.7													

Central Marsh August 4

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000															
030															
100															
130															
200															
230															
300															
330															
400															
430															
500															
530															
600															
630															
700															
730															
800															
830															
900															
930															
1000															
1030															
1100															
1130															
1200															
1230															
1300															
1330															
1400															
1430															
1500															
1530															
1600															
1630															
1700															
1730															
1800	-0.8	4.3	93.2	-0.4	4.0	85.5	0.2	4.3	87.4	9.9	5.1	6.7	0.0	288.6	55.2
1830	-0.9	4.0	88.1	-0.5	4.0	86.2	0.1	4.3	88.2	8.9	6.8	6.0	0.1	273.6	53.3
1900	-1.0	4.0	89.9	-0.6	4.0	87.2	-0.1	4.3	89.3	9.0	5.5	5.8	0.1	246.9	48.6
1930	-1.2	4.0	90.8	-0.9	4.1	90.0	-0.4	4.4	93.4	7.9	6.1	6.7	0.0	203.4	40.3
2000	-1.3	4.1	92.0	-1.0	4.1	90.8	-0.6	4.5	97.2	7.3	6.5	4.7	0.1	164.5	33.0
2030	-1.3	4.1	93.2	-1.0	4.1	92.3	-0.7	4.4	96.8	6.9	4.9	6.5	0.1	142.5	29.2
2100	-1.4	4.1	94.1	-1.1	4.2	93.1	-0.9	4.2	92.8	6.1	5.7	6.1	0.1	120.9	25.7
2130	-1.5	4.1	94.5	-1.3	4.1	93.9	-1.1	4.2	94.0	5.3	6.4	4.4	0.1	102.8	22.6
2200	-1.7	4.1	95.8	-1.5	4.1	95.1	-1.3	4.2	95.5	5.0	5.5	4.8	0.1	77.8	18.0
2230	-1.8	4.1	96.7	-1.6	4.1	95.1	-1.5	4.2	95.9	4.7	4.6	5.0	0.1	60.3	14.8
2300	-1.8	4.1	96.8	-1.6	4.1	95.0	-1.6	4.1	95.4	4.1	4.1	5.4	0.1	48.1	12.7
2330	-1.8	4.0	93.4	-1.6	4.0	93.2	-1.6	4.0	93.0	3.4	4.3	5.0	0.2	38.3	11.3
Max	-0.8	4.3	96.8	-0.4	4.2	95.1	0.2	4.5	97.2	9.9	6.8	6.7	0.2	288.6	55.2
Min	-1.8	4.0	88.1	-1.6	4.0	85.5	-1.6	4.0	87.4	3.4	4.1	4.4	0.0	38.3	11.3
Ave	-1.4	4.1	93.2	-1.1	4.1	91.5	-0.8	4.3	93.2	6.5	5.5	5.6	0.1	147.3	30.4
Sum														3.2	0.7

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
														349.3 NC
														349.2 NC
														349.3 NC
														349.6
														349.8 NC
														349.8 NC
														349.8 NC
														350.0 A
														350.0 A
														350.1 A
														350.2 A
														350.2 A
														350.2 A
														350.1 A
														350.2 A
														350.1 A
														350.2 A
														350.1 A
233.3	39.3		635.1	0.19	5.32	4.34	2.89	311	0.15	0.27	-0.018	4.75		350.0 A
204.2	33.0		600.3	0.19	5.06	3.91	2.56	308	0.29	0.27	-0.018	4.80		
182.2	26.6		538.8	0.20	5.22	4.28	2.78	304	0.16	0.26	-0.020	4.44		350.0 A
145.2	14.9		439.5	0.20	5.40	4.10	2.82	305	0.23	0.29	-0.012	4.75		
120.2	4.8		352.3	0.20	5.51	4.23	2.78	302	0.29	0.30	-0.009	5.04		350.0 A
104.0	-1.2		301.1	0.21	5.74	4.15	2.73	305	0.92	0.37	-0.008	6.57		
87.0	-6.2		252.5	0.21	5.77	4.20	2.74	307	0.90	0.37	-0.007	6.46		350.0 A
70.5	-11.8		210.3	0.22	5.56	4.12	2.81	303	0.36	0.31	-0.007	4.82		
45.3	-16.7		150.7	0.23	5.46	4.35	2.82	300	0.22	0.28	-0.006	4.29		350.0 A
26.7	-22.0		111.7	0.25	5.67	4.28	2.59	307	0.53	0.33	-0.004	4.91		
13.6	-28.6		87.7	0.26	5.63	4.34	2.71	298	0.37	0.31	-0.003	4.55		350.0 A
4.5	-28.8		60.0	0.29	5.72	4.18	2.65	303	0.72	0.35	-0.002	5.27		
233.3	39.3		635.1	0.29	5.77	4.35	2.89	311	0.92	0.37	-0.002	6.57		350.2
4.5	-28.8		60.0	0.19	5.06	3.91	2.56	298	0.15	0.26	-0.020	4.29		349.2
103.1	0.3		311.7	0.22	5.50	4.21	2.74	304	0.43	0.31	-0.010	5.05		349.9
2.2	0.0													

Central Marsh August 5

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-1.8	4.0	94.6	-1.7	4.1	95.0	-1.7	4.1	94.8	3.0	3.9	4.5	0.2	37.7	13.2
030	-1.8	4.0	94.3	-1.7	4.1	94.9	-1.9	4.0	94.5	2.4	3.7	4.3	0.2	24.9	9.3
100	-1.8	4.1	96.6	-1.7	4.1	96.4	-1.9	4.1	96.2	2.0	3.7	3.4	0.2	19.9	7.9
130	-1.7	4.2	97.6	-1.6	4.2	96.5	-1.6	4.1	95.5	2.0	3.0	3.6	0.2	15.7	6.9
200	-1.8	4.2	98.1	-1.7	4.2	96.9	-1.7	4.1	96.2	2.0	2.9	3.2	0.2	14.5	6.6
230	-1.8	4.2	98.2	-1.6	4.2	96.7	-1.7	4.1	95.4	2.0	2.3	3.3	0.2	14.2	6.5
300	-1.7	4.2	98.4	-1.6	4.2	97.5	-1.7	4.1	96.0	1.9	1.8	3.6	0.2	14.2	6.5
330	-1.6	4.3	98.6	-1.5	4.2	97.6	-1.5	4.2	96.5	1.8	1.9	3.3	0.2	14.9	6.7
400	-1.4	4.3	98.4	-1.3	4.3	97.0	-1.4	4.2	94.8	1.7	1.6	3.6	0.2	16.2	6.8
430	-1.4	4.4	100.0	-1.4	4.3	99.1	-1.4	4.3	97.9	1.4	2.1	2.9	0.2	18.9	7.4
500	-1.6	4.3	99.8	-1.5	4.3	98.4	-1.6	4.2	98.2	1.4	1.9	2.6	0.2	25.8	9.2
530	-1.3	4.4	100.0	-1.2	4.4	98.6	-1.3	4.3	97.7	1.5	1.6	2.2	0.2	31.9	10.3
600	-1.1	4.5	100.0	-1.0	4.4	97.8	-1.0	4.3	95.4	1.8	0.5	4.0	0.1	32.8	10.0
630	-1.0	4.4	98.4	-1.0	4.4	97.6	-1.0	4.3	95.1	1.2	2.2	2.6	0.1	44.6	12.1
700	-1.1	4.4	99.2	-1.0	4.4	98.3	-1.0	4.3	95.3	1.6	1.5	2.1	0.2	84.5	22.5
730	-1.0	4.5	99.6	-0.9	4.4	97.2	-0.9	4.2	93.6	1.8	0.5	4.0	0.1	79.4	18.4
800	-0.8	4.4	97.2	-0.8	4.4	96.1	-0.8	4.2	92.2	1.4	2.2	2.1	0.1	98.4	22.1
830	-0.8	4.5	99.2	-0.7	4.5	96.5	-0.6	4.2	90.5	2.1	0.9	2.7	0.1	115.3	24.6
900	-0.8	4.6	100.0	-0.6	4.5	97.7	-0.5	4.2	90.7	2.4	0.4	4.3	0.0	144.3	29.0
930	-0.5	4.6	97.9	-0.4	4.6	96.8	-0.2	4.2	87.8	2.5	2.4	1.6	0.1	146.9	28.3
1000	-0.5	4.3	92.7	-0.4	4.4	93.9	-0.3	4.2	89.3	3.3	0.1	4.2	0.1	113.9	22.6
1030	-0.6	4.3	92.8	-0.5	4.4	93.3	-0.3	4.3	91.4	2.7	2.4	2.3	0.1	155.0	29.3
1100	-0.4	4.4	92.9	-0.1	4.3	89.6	0.1	4.5	91.5	4.1	0.7	3.3	0.0	218.9	40.1
1130	-0.2	4.3	90.0	0.0	4.3	89.4	0.4	4.5	91.4	4.0	2.8	2.5	0.1	238.9	43.3
1200	-0.1	4.3	90.5	0.1	4.4	90.1	0.4	4.5	91.2	5.0	1.1	3.5	0.0	224.7	41.0
1230	-0.1	4.4	91.2	0.0	4.4	91.6	0.3	4.6	93.2	4.4	3.1	2.7	0.0	173.8	32.5
1300	-0.4	4.6	98.4	-0.1	4.7	97.4	0.2	4.8	96.9	4.9	1.0	4.7	0.0	217.4	39.9
1330	0.1	4.5	93.1	0.4	4.6	92.2	0.9	4.8	92.7	5.6	2.7	2.7	0.0	309.0	56.4
1400	0.1	4.7	96.6	0.3	4.7	96.1	0.8	4.9	95.5	6.0	2.7	4.2	0.0	257.4	46.7
1430															
1500															
1530	0.4	4.6	93.9	0.7	4.7	93.2	1.3	4.9	93.1	7.0	1.6	3.7	0.0	336.5	61.0
1600	0.4	4.7	95.4	0.7	4.8	93.9	1.4	5.0	93.3	7.7	2.4	5.0	0.0	343.9	62.7
1630	0.3	4.7	95.4	0.7	4.8	94.4	1.3	5.0	93.8	7.9	3.6	4.1	0.0	334.9	62.0
1700	0.4	4.7	95.3	0.7	4.8	94.4	1.3	5.0	94.4	7.5	5.0	3.9	0.0	296.0	54.8
1730	0.1	4.7	97.6	0.5	4.8	95.5	1.0	4.9	95.4	7.8	3.2	5.7	0.0	236.7	43.9
1800	0.1	4.6	95.2	0.4	4.7	94.1	0.9	4.9	95.0	7.3	4.5	3.9	0.0	215.7	40.5
1830	0.2	4.7	94.9	0.5	4.7	94.4	1.0	4.9	95.1	7.0	4.8	5.0	0.0	245.6	46.2
1900	0.3	4.7	96.1	0.6	4.8	94.9	1.1	4.9	95.0	7.6	3.4	5.4	0.0	204.1	38.8
1930	0.1	4.5	93.1	0.3	4.6	93.2	0.6	4.8	94.7	6.2	5.3	4.3	0.0	105.2	21.1
2000	-0.3	4.6	97.2	0.0	4.6	95.3	0.3	4.7	96.4	6.0	3.2	6.0	0.0	111.6	22.3
2030	-0.3	4.6	96.3	-0.1	4.6	96.7	0.1	4.8	98.7	5.3	5.3	3.9	0.0	102.1	21.1
2100	-0.7	4.7	100.0	-0.5	4.7	100.0	-0.2	4.8	100.0	5.6	3.0	5.5	0.0	88.4	18.9
2130	-0.8	4.5	98.6	-0.7	4.6	99.3	-0.4	4.7	100.0	4.7	5.2	4.0	0.0	74.8	16.7
2200	-1.1	4.5	100.0	-0.9	4.7	100.0	-0.7	4.6	100.0	4.8	3.3	4.3	0.0	64.1	14.9
2230	-1.2	4.4	99.7	-1.0	4.8	100.0	-0.9	4.5	99.8	4.1	3.6	5.1	0.0	58.8	14.3
2300	-1.4	4.3	98.2	-1.3	4.6	100.0	-1.2	4.5	100.0	3.5	4.7	3.0	0.1	48.8	12.8
2330	-1.8	4.3	100.0	-1.7	4.4	100.0	-1.7	4.3	100.0	3.3	2.4	4.9	0.1	34.6	10.1
Max	0.4	4.7	100.0	0.7	4.8	100.0	1.4	5.0	100.0	7.9	5.3	6.0	0.2	343.9	62.7
Min	-1.8	4.0	90.0	-1.7	4.1	89.4	-1.9	4.0	87.8	1.2	0.1	1.6	0.0	14.2	6.5
Ave	-0.7	4.4	96.8	-0.6	4.5	96.0	-0.4	4.5	95.0	3.9	2.7	3.7	0.1	126.2	25.6
Sum														10.9	2.2

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-48.4	-34.7		54.1	0.35	5.40	3.82	2.57	283	1.07	0.35	-0.001	5.81		349.9 A
-54.7	-37.6		33.0	0.37	5.45	4.08	2.60	288	0.40	0.30	0.001	3.90		
-52.3	-34.9		18.4	0.40	5.73	4.62	2.95	284	0.22	0.30	0.001	4.36		349.9 A
-30.5	-29.0		7.1	0.44	6.68	4.99	3.27	294	0.35	0.37	-0.001	5.23		
-3.8	-24.8		3.4	0.45	6.97	5.24	3.44	298	0.37	0.39	-0.001	5.43		349.9 A
-4.1	-23.9		2.6	0.46	6.65	4.89	3.35	299	0.46	0.38	-0.001	5.81		
-11.5	-23.8		3.4	0.46	6.22	4.73	2.95	292	0.43	0.35	-0.001	4.56		349.9 A
-12.6	-21.7		4.0	0.45	6.61	5.00	3.44	291	0.22	0.34	-0.001	4.46		
-11.3	-20.9		7.6	0.42	6.62	4.94	3.28	287	0.34	0.37	0.000	5.29		349.9 A
-10.2	-19.7		13.7	0.39	6.95	5.29	3.42	291	0.32	0.38	0.000	5.32		
-36.5	-21.7		34.2	0.35	6.43	4.84	3.17	290	0.32	0.35	0.000	4.82		349.8 A
-3.7	-18.2		47.6	0.32	5.93	4.62	2.95	288	0.31	0.33	0.000	4.91		
14.8	-15.2		49.2	0.30	6.55	4.80	3.39	291	0.36	0.36	-0.001	5.10		349.6 A
15.7	-13.4		79.6	0.27	6.31	4.77	3.16	294	0.29	0.34	0.000	4.83		
42.5	-13.3		171.1	0.27	6.08	4.56	3.06	293	0.51	0.35	-0.001	5.19		349.3 D
49.1	-8.3		161.1	0.23	6.19	4.59	2.94	294	0.42	0.35	-0.001	4.77		
59.8	-4.9		205.4	0.22	6.14	4.50	2.94	294	0.44	0.35	-0.001	4.80		I
86.7	1.4		236.6	0.21	6.16	4.56	2.93	296	0.98	0.40	-0.002	6.78		
119.7	10.1		313.6	0.20	6.46	4.82	3.18	286	0.36	0.36	-0.002	5.45		349.0
107.3	16.4		322.7	0.19	6.22	4.78	3.08	282	0.32	0.34	-0.003	5.09		
87.0	13.8		247.6	0.20	6.76	5.17	3.37	281	0.29	0.37	-0.002	5.37		348.9 NC
123.8	18.4		342.6	0.19	7.43	5.46	3.60	286	0.43	0.42	-0.002	6.21		
169.9	36.6		501.0	0.18	7.28	5.55	3.84	286	0.25	0.38	-0.006	5.70		348.9 NC
192.2	43.3		548.5	0.18	6.68	5.43	3.41	285	0.23	0.36	-0.005	5.46		
180.6	43.4		510.8	0.18	7.00	5.16	3.35	286	0.52	0.41	-0.004	6.56		348.8 NC
169.2	33.5		392.5	0.19	6.65	5.12	3.35	283	0.26	0.36	-0.005	5.28		
180.7	33.6		483.9	0.18	6.66	5.07	3.14	290	0.43	0.38	-0.006	5.80		348.6 A
255.2	64.4		690.4	0.18	6.41	4.88	3.21	289	0.28	0.34	-0.012	5.05		
229.3	57.0		582.5	0.18	6.30	5.03	3.27	285	0.20	0.33	-0.010	5.11		348.6 A
														348.4 A
260.0	71.9		758.5	0.18	6.39	4.78	3.22	289	0.28	0.34	-0.012	5.34		
276.1	69.0		781.5	0.18	6.89	5.30	3.41	292	0.32	0.38	-0.010	5.92		348.4 NC
266.3	67.3		753.1	0.19	6.56	4.83	3.31	290	0.30	0.36	-0.012	5.48		
241.3	59.7		655.4	0.19	5.68	4.44	3.07	292	0.14	0.28	-0.018	4.63		348.3 NC
204.0	43.8		526.8	0.19	5.82	4.34	2.88	295	0.33	0.32	-0.012	5.11		
173.9	37.8		475.9	0.19	5.48	4.03	2.65	293	0.78	0.34	-0.012	6.31		348.4 NC
173.8	42.0		536.3	0.19	5.50	4.29	2.82	293	0.24	0.29	-0.012	4.82		
140.4	39.2		450.5	0.19	4.99	3.81	2.61	292	0.21	0.26	-0.017	4.36		348.7
75.9	13.2		227.1	0.20	4.89	3.89	2.52	294	0.22	0.26	-0.009	4.24		
86.0	7.4		237.1	0.20	4.97	3.70	2.45	300	0.69	0.30	-0.010	5.52		348.7 NC
75.4	8.7		212.1	0.21	4.47	3.36	2.03	298	0.52	0.26	-0.008	4.08		
64.1	4.2		179.1	0.21	4.24	3.21	2.05	295	0.43	0.25	-0.008	4.14		348.6 NC
47.0	1.2		145.5	0.22	3.92	3.02	1.95	297	0.30	0.21	-0.010	3.38		
34.2	-5.8		122.3	0.23	4.35	3.20	2.07	290	0.48	0.25	-0.009	3.96		348.7 NC
22.4	-10.5		107.9	0.24	4.13	3.20	2.09	290	0.27	0.22	-0.007	3.59		
-7.4	-15.4		87.3	0.26	3.43	2.55	1.64	280	0.75	0.21	-0.005	3.74		349.0
-45.4	-28.5		59.7	0.29	3.15	2.41	1.46	270	0.50	0.19	-0.004	2.97		
276.1	71.9		781.5	0.46	7.43	5.55	3.84	300	1.07	0.42	0.001	6.78		349.9
-54.7	-37.6		2.6	0.18	3.15	2.41	1.46	270	0.14	0.19	-0.018	2.97		348.3
84.6	8.9		269.2	0.26	5.91	4.47	2.93	290	0.39	0.33	-0.005	5.00		349.0
7.3	0.8													

Central Marsh August 6

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000															
030															
100															
130															
200															
230															
300															
330															
400															
430															
500															
530															
600															
630															
700															
730															
800															
830															
900															
930															
1000															
1030															
1100															
1130															
1200															
1230															
1300															
1330															
1400															
1430															
1500	0.4	4.8	97.1	0.6	4.9	98.6	1.0	5.1	97.9	5.8	3.1	3.5	0.0	219.1	38.8
1530	0.6	4.7	93.3	0.5	4.9	98.6	1.2	4.8	92.2	6.2	1.7	4.6	0.0	188.1	33.6
1600	0.6	4.6	91.9	0.6	4.9	97.8	1.2	4.8	92.4	5.7	2.9	3.2	0.0	173.7	31.3
1630	0.7	4.6	91.1	0.7	4.8	93.9	1.1	4.8	92.5	5.3	2.9	4.2	0.0	148.2	27.3
1700	0.5	4.7	93.9	0.7	4.7	91.9	0.9	4.8	92.7	5.2	2.2	4.2	0.0	129.4	24.1
1730	0.4	4.6	92.2	0.6	4.6	91.6	0.8	4.8	93.4	4.7	3.4	3.6	0.0	131.1	24.5
1800	0.4	4.7	94.1	0.7	4.7	92.0	0.9	4.8	93.3	5.2	2.0	4.8	0.0	153.8	28.1
1830	0.4	4.6	92.9	0.6	4.7	92.5	0.8	4.8	93.9	4.9	3.4	2.9	0.0	142.3	26.4
1900	0.4	4.7	93.4	0.6	4.7	92.7	0.9	4.8	93.8	5.2	2.4	4.5	0.0	156.9	28.8
1930	0.5	4.7	94.1	0.7	4.7	93.0	0.9	4.8	94.0	5.3	2.9	3.2	0.0	135.1	25.6
2000	0.4	4.6	93.7	0.5	4.7	93.9	0.6	4.8	95.7	4.3	3.8	3.3	0.0	75.6	15.9
2030	0.1	4.8	99.0	0.4	4.8	96.9	0.5	4.8	97.3	4.4	2.4	3.7	0.0	71.0	15.3
2100	0.1	4.8	99.4	0.2	4.8	98.9	0.3	5.0	100.0	3.8	3.5	3.4	0.0	62.4	14.1
2130	0.0	5.0	100.0	0.2	5.0	100.0	0.2	5.0	100.0	4.0	2.0	3.8	0.0	49.1	12.0
2200	0.0	4.7	98.2	0.1	4.8	99.3	0.2	5.0	100.0	3.4	3.4	3.3	0.0	50.3	12.3
2230	-0.2	4.9	100.0	0.0	4.9	100.0	0.0	4.9	100.0	3.8	2.2	3.4	0.0	49.4	12.3
2300	-0.2	4.7	98.2	-0.2	4.7	99.4	-0.1	4.9	100.0	3.1	3.4	3.2	0.0	35.5	9.9
2330	-0.5	4.9	100.0	-0.3	4.8	100.0	-0.3	4.8	100.0	3.3	2.2	3.4	0.0	29.5	8.8
Max	0.7	5.0	100.0	0.7	5.0	100.0	1.2	5.1	100.0	6.2	3.8	4.8	0.0	219.1	38.8
Min	-0.5	4.6	91.1	-0.3	4.6	91.6	-0.3	4.8	92.2	3.1	1.7	2.9	0.0	29.5	8.8
Ave	0.2	4.7	95.7	0.4	4.8	96.2	0.6	4.9	96.1	4.6	2.8	3.7	0.0	111.1	21.6
Sum														3.6	0.7

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
														348.9 NC
														348.8 NC
														348.9 NC
														348.9 NC
														348.9 NC
														349.8 V
														349.7 V
														349.0
														349.1 NC
														349.1 NC
														349.0 NC
														349.3 D
														348.8 D
														349.3 D
														348.9
2632.5	42.1		505.2	0.18	5.48	4.30	2.86	292	0.21	0.29	-0.010	4.70	348.7	348.8 NC
2644.2	35.0		435.5	0.18	5.98	4.68	2.86	284	0.38	0.34	-0.007	5.43	348.6	
2571.5	29.5		401.2	0.18	5.74	4.60	3.00	287	0.21	0.30	-0.007	4.96	348.2	348.6 A
2606.6	21.3		348.6	0.18	5.95	4.47	2.95	287	0.31	0.32	-0.007	4.49	348.0	
2624.9	15.6		300.0	0.19	6.10	4.57	3.05	287	0.42	0.35	-0.006	5.63	347.7	348.4 A
2615.6	16.1		300.3	0.19	6.01	4.53	2.85	292	0.42	0.34	-0.005	4.97	347.7	
2479.3	22.0		350.4	0.18	5.92	4.62	3.00	289	0.24	0.31	-0.008	4.55	347.5	348.4 A
2483.4	21.6		320.6	0.19	5.99	4.68	3.11	288	0.22	0.32	-0.005	4.91	347.7	
2490.1	24.2		352.1	0.18	6.10	4.52	2.97	291	0.71	0.38	-0.006	6.46	347.5	348.3 A
2535.1	22.4		296.5	0.19	5.85	4.66	2.99	294	0.22	0.31	-0.007	4.61	347.6	
2548.0	4.5		157.2	0.21	6.32	4.81	2.95	294	0.43	0.36	-0.003	5.10	347.9	348.3 A
2538.7	1.9		144.4	0.22	6.25	4.72	3.08	295	0.34	0.35	-0.004	5.19	347.6	
2606.8	2.1		118.8	0.23	6.05	4.65	2.99	291	0.31	0.33	-0.004	4.46	347.5	348.3 NC
2578.8	-0.6		86.1	0.24	5.86	4.53	2.95	290	0.33	0.32	-0.004	5.02	347.6	
2575.2	-1.0		85.9	0.24	6.05	4.66	2.94	294	0.34	0.34	-0.002	4.94	347.6	347.9
2531.9	-0.4		81.9	0.25	5.84	4.29	2.68	297	0.68	0.36	-0.003	5.64	347.5	
2614.6	-5.1		50.1	0.28	5.91	4.46	2.94	296	0.31	0.32	-0.001	4.54	347.5	347.8 NC
2528.5	-8.3		38.9	0.30	6.42	4.88	3.28	303	0.30	0.35	-0.003	5.31	347.5	
2644.2	42.1		505.2	0.30	6.42	4.88	3.28	303	0.71	0.38	-0.001	6.46	348.7	349.8
2479.3	-8.3		38.9	0.18	5.48	4.29	2.68	284	0.21	0.29	-0.010	4.46	347.5	347.8
2567.0	13.5		243.0	0.21	5.99	4.59	2.97	292	0.35	0.33	-0.005	5.05	347.8	348.8
83.2	0.4													

Central Marsh August 7

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-0.9	4.5	99.7	-0.8	4.6	100.0	-0.8	4.6	100.0	2.7	2.5	4.0	0.0	21.3	7.2
030	-1.1	4.5	100.0	-1.0	4.5	99.5	-1.0	4.6	100.0	2.3	3.3	2.4	0.0	16.9	6.4
100	-1.3	4.6	100.0	-1.1	4.5	100.0	-1.1	4.5	100.0	2.5	1.5	3.6	0.0	15.0	6.1
130	-1.2	4.7	100.0	-0.9	4.4	97.5	-1.1	4.6	100.0	2.2	2.1	3.9	0.0	14.0	6.3
200	-1.3	4.6	100.0	-1.2	4.8	100.0	-1.1	4.7	100.0	2.0	2.5	3.9	0.0	13.8	6.9
230	-1.4	4.4	100.0	-1.3	4.6	100.0	-1.3	4.7	100.0	1.7	2.8	2.8	0.0	13.7	6.4
300	-1.5	4.4	100.0	-1.4	4.4	100.0	-1.4	4.5	100.0	1.7	2.2	2.7	0.0	13.9	6.2
330	-1.5	4.4	100.0	-1.4	4.4	100.0	-1.4	4.5	100.0	1.7	1.8	2.9	0.0	14.2	6.4
400	-1.6	4.5	100.0	-1.4	4.4	100.0	-1.5	4.4	100.0	1.8	1.2	3.0	0.0	15.2	6.6
430	-1.7	4.4	100.0	-1.5	4.3	100.0	-1.6	4.4	100.0	1.7	0.8	3.5	0.0	17.1	6.8
500	-1.7	4.3	100.0	-1.6	4.3	99.8	-1.6	4.4	100.0	1.5	1.0	3.1	0.0	21.1	7.4
530	-1.5	4.3	98.1	-1.5	4.3	98.9	-1.5	4.4	100.0	1.4	1.2	2.9	0.0	24.8	8.0
600	-1.4	4.3	97.4	-1.4	4.3	98.5	-1.4	4.4	100.0	1.4	1.8	2.0	0.0	28.2	8.5
630	-1.4	4.4	99.2	-1.3	4.4	98.5	-1.3	4.4	100.0	1.6	1.2	2.1	0.0	34.6	9.5
700	-1.3	4.3	98.5	-1.2	4.4	99.3	-1.2	4.5	100.0	1.7	0.9	2.7	0.0	39.7	10.3
730	-1.3	4.5	100.0	-1.2	4.4	99.4	-1.2	4.5	100.0	1.9	0.7	2.5	0.0	41.4	10.6
800	-1.3	4.5	100.0	-1.1	4.4	99.5	-1.1	4.5	100.0	2.1	0.3	3.1	-0.1	53.6	12.5
830	-1.2	4.4	99.1	-1.1	4.4	98.7	-1.1	4.5	100.0	2.1	0.8	2.9	-0.1	66.1	14.5
900	-1.1	4.3	95.0	-1.1	4.4	97.1	-1.0	4.5	99.8	2.2	1.3	2.6	-0.1	72.2	15.2
930	-1.1	4.4	97.6	-1.0	4.4	98.0	-0.9	4.5	99.8	2.3	1.8	1.5	0.0	74.3	15.8
1000	-1.1	4.6	100.0	-0.9	4.5	99.5	-0.9	4.5	100.0	2.9	0.4	3.1	-0.1	72.5	15.5
1030	-1.0	4.5	99.4	-0.9	4.5	99.0	-0.8	4.6	100.0	2.7	1.1	3.4	-0.1	67.2	14.6
1100															
1130															
1200	-0.8	4.4	97.1	-0.7	4.5	97.9	-0.5	4.7	100.0	3.5	1.4	3.7	-0.1	134.2	24.9
1230	-0.6	4.4	95.2	-0.5	4.5	96.5	-0.2	4.8	100.0	4.0	2.8	2.1	-0.1	170.6	30.6
1300	-0.7	4.6	99.3	-0.4	4.6	98.5	-0.1	4.8	100.0	5.0	1.6	2.9	-0.1	175.1	32.1
1330	-0.6	4.4	95.9	-0.4	4.6	98.7	0.0	4.8	99.7	5.0	2.8	2.7	-0.1	203.6	37.4
1400	-0.7	4.6	99.4	-0.4	4.6	99.0	-0.1	4.8	100.0	5.7	2.3	2.3	-0.1	168.3	31.2
1430	-0.7	4.5	97.8	-0.5	4.6	98.5	-0.1	4.8	100.0	5.6	2.1	3.6	-0.2	197.7	35.7
1500	-0.6	4.5	96.2	-0.3	4.6	97.7	0.2	4.9	99.3	6.1	3.0	2.3	-0.1	256.6	45.4
1530	-0.4	4.5	95.1	-0.1	4.7	97.6	0.4	4.9	99.1	7.3	1.8	4.3	-0.2	300.8	53.0
1600	-0.1	4.5	93.5	0.2	4.7	95.6	0.9	5.1	99.0	8.1	3.2	2.6	-0.1	424.4	79.0
1630	-0.1	4.5	93.9	0.3	4.6	92.7	0.8	5.1	98.8	9.2	2.5	4.4	-0.2	353.6	63.7
1700	-0.5	4.4	94.7	0.0	4.5	92.9	0.4	4.9	98.9	9.1	2.3	4.3	-0.1	300.5	54.2
1730	-0.5	4.4	93.3	-0.1	4.4	92.8	0.3	4.9	99.0	8.6	3.3	3.7	-0.1	279.1	50.4
1800	-0.6	4.4	94.0	-0.3	4.4	93.6	0.1	4.8	99.4	8.2	2.8	5.1	-0.2	208.7	38.3
1830	-0.8	4.5	98.7	-0.5	4.5	95.5	-0.1	4.8	99.9	7.7	2.5	4.6	-0.2	180.2	33.7
1900	-0.9	4.5	99.8	-0.6	4.4	95.7	-0.3	4.7	100.0	6.9	3.8	3.5	-0.2	149.6	28.8
1930	-1.0	4.5	100.0	-0.8	4.5	99.2	-0.5	4.7	100.0	6.5	3.4	4.6	-0.2	132.4	26.0
2000	-1.1	4.5	100.0	-0.8	4.6	100.0	-0.5	4.6	99.9	6.5	3.0	4.1	-0.2	126.3	24.6
2030	-1.1	4.4	97.9	-1.0	4.7	100.0	-0.7	4.6	100.0	5.5	4.2	3.3	-0.2	91.3	19.0
2100	-1.3	4.4	100.0	-1.0	4.6	100.0	-0.8	4.6	99.9	5.1	2.9	4.7	-0.2	70.5	15.5
2130	-1.4	4.4	100.0	-1.2	4.4	98.1	-1.0	4.7	100.0	4.5	3.6	3.1	-0.1	56.3	13.2
2200	-1.4	4.4	100.0	-1.3	4.4	100.0	-1.1	4.8	100.0	4.1	3.0	4.4	-0.1	42.0	10.9
2230	-1.5	4.5	100.0	-1.3	4.5	100.0	-1.2	4.7	100.0	3.9	3.0	3.1	-0.1	33.2	9.6
2300	-1.5	4.4	100.0	-1.4	4.4	100.0	-1.2	4.5	100.0	3.4	3.1	3.9	-0.1	26.5	8.5
2330	-1.6	4.5	100.0	-1.4	4.5	100.0	-1.3	4.5	100.0	3.3	3.1	2.6	-0.1	21.5	7.7
Max	-0.1	4.7	100.0	0.3	4.8	100.0	0.9	5.1	100.0	9.2	4.2	5.1	0.0	424.4	79.0
Min	-1.7	4.3	93.3	-1.6	4.3	92.7	-1.6	4.4	98.8	1.4	0.3	1.5	-0.2	13.7	6.1
Ave	-1.1	4.4	98.4	-0.9	4.5	98.3	-0.7	4.6	99.8	4.1	2.2	3.3	-0.1	105.5	21.3
Sum														9.1	1.8

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
2483.6	-13.1		20.3	0.34	6.80	5.21	3.26	313	0.40	0.39	-0.001	5.67	347.6	347.8 NC
2470.9	-14.9		9.5	0.38	6.33	4.66	3.03	308	0.69	0.38	-0.002	5.82	347.7	
2439.3	-14.9		3.1	0.40	5.69	4.38	3.00	304	0.20	0.29	-0.004	3.78	347.8	347.7 NC
2482.5	-13.4		-0.1	0.45	5.62	4.19	2.78	303	0.52	0.33	-0.002	5.06	347.8	
2383.4	-15.4		0.5		6.03	4.71	3.09	304	0.35	0.33	-0.003	5.13	347.9	348.1 D
2349.0	-16.2		0.3	0.47	5.87	4.42	2.86	304	0.36	0.33	-0.001	4.82	348.3	
2279.3	-15.4		0.5	0.45	6.12	4.66	2.98	308	0.34	0.34	-0.002	4.80	349.0	348.9 A
2255.6	-13.6		0.8	0.45	6.04	4.55	3.00	310	0.64	0.37	-0.001	6.41	349.4	
2236.6	-13.3		3.0	0.43	6.32	4.94	3.23	312	0.23	0.33	-0.002	4.76	349.7	348.8 A
2145.2	-14.3		7.7	0.40	6.11	4.87	3.06	310	0.30	0.34	-0.001	5.15	349.5	
2138.9	-13.8		17.5	0.35	5.86	4.30	2.71	311	0.50	0.34	-0.001	4.83	349.3	348.3
2194.7	-11.0		25.6	0.32	5.31	3.98	2.68	310	0.30	0.29	-0.001	4.17	349.1	
2272.8	-8.7		34.0	0.30	5.82	4.56	2.93	309	0.27	0.31	-0.001	4.27	349.1	348.1 NC
2295.1	-6.4		49.1	0.27	5.43	4.42	2.81	308	0.20	0.28	-0.001	4.02	348.7	
2319.9	-4.6		61.7	0.26	5.60	4.28	2.68	310	0.38	0.31	-0.001	4.49	348.7	348.0 NC
2300.3	-3.1		67.5	0.26	5.79	4.49	2.84	314	0.32	0.32	-0.002	4.56	348.9	
2314.1	0.1		97.4	0.23	5.61	4.27	2.79	316	0.30	0.31	-0.002	4.40	348.7	348.0 NC
2340.1	4.2		128.1	0.22	5.21	4.14	2.69	320	0.24	0.28	-0.002	4.27	348.5	
2732.3	7.9		145.3	0.21	5.11	3.85	2.43	317	0.41	0.29	-0.001	4.18	348.6	347.9 NC
2354.4	8.3		150.9	0.21	4.76	3.75	2.43	316	0.24	0.25	-0.003	3.86	348.9	
2360.1	9.4		151.0	0.21	4.93	3.66	2.45	317	0.62	0.30	-0.005	5.08	348.7	347.8 NC
2411.1	7.6		139.4	0.22	4.71	3.43	2.21	312	0.67	0.29	-0.004	4.46	348.8	
														347.7 NC
2589.9	25.4		312.2	0.19	4.38	3.47	2.26	315	0.21	0.23	-0.009	3.45	348.6	347.5 NC
2720.2	37.5		392.6	0.18	4.39	3.33	2.27	321	0.23	0.23	-0.012	3.72	348.3	
2729.3	42.5		403.1	0.18	4.64	3.50	2.29	326	0.34	0.26	-0.012	4.21	348.5	347.5 NC
2865.4	46.7		462.4	0.18	4.87	3.68	2.33	330	0.41	0.28	-0.010	4.48	348.6	
2814.7	42.8		386.2	0.19	4.46	3.46	2.17	333	0.35	0.25	-0.012	4.14	348.8	347.5 A
2699.6	43.3		454.9	0.18	4.06	3.18	2.08	326	0.23	0.22	-0.018	3.81	348.7	
2660.3	59.0		586.8	0.18	4.24	3.31	2.18	324	0.23	0.22	-0.020	4.01	348.7	347.3 A
2662.9	75.9		691.8	0.18	4.13	3.23	1.98	324	0.45	0.25	-0.015	4.56	348.7	
2636.3	100.4		957.9	0.19	4.16	3.31	2.10	320	0.28	0.23	-0.023	4.48	348.7	347.3 NC
2626.6	96.6		801.2	0.18	4.59	3.47	2.22	324	0.59	0.28	-0.016	5.30	348.8	
2689.7	72.9		685.7	0.18	3.67	3.04	1.90	339	0.22	0.20	-0.026	4.00	348.8	347.3 NC
2712.6	64.6		635.9	0.18	4.22	3.37	2.10	312	0.31	0.24	-0.017	4.26	348.8	
2719.1	45.7		469.1	0.18	3.74	2.83	1.88	329	0.32	0.21	-0.020	3.83	349.0	347.2 NC
2739.4	32.0		399.9	0.19	3.59	2.87	1.73	330	0.42	0.21	-0.017	4.09	349.0	
2743.7	26.0		326.7	0.19	3.38	2.58	1.62	332	0.54	0.20	-0.020	3.90	349.1	347.3 NC
2760.8	19.1		285.8	0.20	3.33	2.57	1.65	324	0.43	0.20	-0.016	3.64	349.0	
2703.3	17.9		275.5	0.20	3.31	2.47	1.49	330	0.60	0.20	-0.016	3.63	348.9	347.3 NC
2715.0	8.4		190.8	0.21	2.99	2.29	1.48	311	0.35	0.17	-0.019	3.10	349.2	
2639.9	0.4		142.3	0.22	3.02	2.47	1.49	322	0.32	0.17	-0.019	3.26	349.3	347.3 NC
2649.0	-5.0		108.3	0.23	3.25	2.40	1.50	318	0.78	0.20	-0.014	3.81	349.6	
2685.1	-7.8		71.9	0.26	3.25	2.45	1.54	328	0.85	0.21	-0.010	3.93	349.7	347.4 NC
2734.8	-10.4		50.2	0.29	3.13	2.63	1.44	325	0.51	0.19	-0.011	3.30	349.9	
2755.6	-11.6		33.1	0.32	2.96	2.06	1.28	333		0.23	-0.011	4.82	349.9	347.4 NC
4937.1	-12.6		20.4	0.36	3.00	2.25	1.29	329	0.86	0.20	-0.010	3.39	349.9	
4937.1	100.4		957.9	0.47	6.80	5.21	3.26	339	0.86	0.39	-0.001	6.41	349.9	348.9
2138.9	-16.2		-0.1	0.13	2.96	2.06	1.28	303	0.20	0.17	-0.026	3.10	347.6	347.2
2581.5	14.2		223.0	0.26	4.69	3.61	2.31	318	0.41	0.27	-0.009	4.33	348.8	347.7
223.0	1.2													

Central Marsh August 8

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-1.6	4.4	100.0	-1.5	4.4	100.0	-1.3	4.5	100.0	3.0	2.7	3.8	-0.1	20.7	7.8
030	-1.7	4.5	100.0	-1.5	4.4	100.0	-1.5	4.5	100.0	2.9	2.7	2.5	-0.1	17.2	7.2
100	-1.7	4.4	100.0	-1.6	4.4	100.0	-1.6	4.4	100.0	2.6	2.2	3.8	-0.1	15.2	6.7
130	-1.8	4.3	100.0	-1.7	4.3	100.0	-1.7	4.4	100.0	2.3	3.1	1.9	0.0	14.5	6.6
200	-2.0	4.3	100.0	-1.8	4.3	100.0	-1.8	4.3	100.0	2.4	1.5	3.8	-0.1	13.9	6.5
230	-2.1	4.2	100.0	-2.1	4.2	100.0	-2.0	4.3	100.0	1.8	2.7	2.5	0.0	13.5	6.3
300	-2.6	4.2	100.0	-2.4	4.2	100.0	-2.3	4.2	100.0	1.9	2.3	1.9	0.0	13.5	6.3
330	-3.0	4.1	100.0	-2.8	4.0	100.0	-2.7	4.1	100.0	1.9	1.0	3.5	0.0	13.6	6.4
400	-3.0	3.9	100.0	-2.9	3.9	100.0	-2.8	4.1	100.0	1.5	2.1	2.3	-0.1	14.9	6.7
430	-3.4	3.9	100.0	-3.3	3.9	100.0	-3.3	3.9	100.0	1.5	2.0	1.9	-0.1	16.4	6.9
500	-3.3	4.0	100.0	-3.1	3.9	100.0	-3.0	4.0	100.0	1.5	1.4	1.7	0.0	20.3	8.6
530	-3.2	4.0	100.0	-3.0	3.9	100.0	-3.0	4.0	100.0	1.5	0.8	2.1	0.0	25.8	9.3
600	-3.1	4.0	100.0	-3.0	3.9	99.9	-2.9	4.0	100.0	1.4	1.0	2.2	0.0	38.2	11.8
630	-2.9	4.0	100.0	-2.7	4.0	100.0	-2.6	4.1	100.0	1.4	0.7	2.5	0.0	43.4	12.7
700	-2.5	4.1	99.8	-2.4	4.1	100.0	-2.3	4.2	100.0	1.2	1.4	1.9	0.0	43.1	12.6
730	-2.1	4.2	100.0	-1.9	4.2	100.0	-1.9	4.3	100.0	1.4	1.5	1.1	0.1	49.0	13.8
800	-1.8	4.3	100.0	-1.6	4.3	100.0	-1.6	4.4	100.0	1.6	0.8	1.6	0.1	56.5	15.2
830	-1.7	4.4	100.0	-1.5	4.4	100.0	-1.5	4.4	100.0	1.9	0.1	2.6	-0.1	60.3	15.8
900	-1.5	4.3	98.4	-1.4	4.3	99.1	-1.4	4.5	100.0	1.6	1.2	2.1	0.0	55.4	14.6
930	-1.4	4.4	99.9	-1.3	4.4	100.0	-1.3	4.5	100.0	1.8	1.6	1.0	0.0	63.4	15.2
1000	-1.4	4.5	100.0	-1.2	4.5	100.0	-1.1	4.5	100.0	2.5	0.2	2.6	-0.1	83.6	17.8
1030	-1.1	4.3	97.0	-1.0	4.4	97.8	-0.9	4.5	98.6	2.8	2.2	2.0	-0.1	148.3	27.8
1100	-1.0	4.6	100.0	-0.7	4.5	98.0	-0.3	4.3	90.1	4.3	1.9	1.9	-0.1	199.4	35.2
1130	-0.8	4.4	96.7	-0.5	4.4	93.6	0.0	4.6	94.4	4.9	2.4	2.7	-0.1	225.7	37.7
1200															
1230															
1300															
1330															
1400															
1430															
1500															
1530															
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1900															
1930															
2000															
2030															
2100															
2130															
2200															
2230															
2300															
2330															
Max	-0.8	4.6	100.0	-0.5	4.5	100.0	0.0	4.6	100.0	4.9	3.1	3.8	0.1	225.7	37.7
Min	-3.4	3.9	96.7	-3.3	3.9	93.6	-3.3	3.9	90.1	1.2	0.1	1.0	-0.1	13.5	6.3
Ave	-2.1	4.2	99.7	-2.0	4.2	99.5	-1.9	4.3	99.3	2.2	1.7	2.3	0.0	52.7	13.1
Sum														2.3	0.6

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
5841.3	-12.7		14.0	0.38	2.75	2.07	1.21	326	0.66	0.17	-0.009	2.83	349.8	347.3 NC
5835.9	-14.2		8.8	0.42	2.40	1.80	1.04	306	0.86	0.15	-0.012	2.69	350.2	
5741.6	-15.7		4.6	0.44	2.89	2.07	1.31	307		0.21	-0.008	4.46	350.2	347.2 NC
5695.9	-16.7		3.1	0.45	3.17	2.47	1.60	320	0.31	0.18	-0.005	2.83	350.1	
5589.8	-18.0		2.4	0.46	3.00	2.24	1.32	319	0.63	0.18	-0.007	2.70	350.2	347.1 NC
5622.2	-18.1		1.5	0.47	2.63	1.92	1.21	311	1.82	0.19	-0.008	3.85	350.2	
5086.2	-17.7		1.3	0.47	2.88	1.97	1.25	309		0.22	-0.013	4.92	349.9	347.1 NC
4687.6	-18.8		2.4	0.47	2.76	2.16	1.30	304	0.51	0.16	-0.014	2.78	349.8	
4585.4	-16.7		4.8	0.45	2.84	2.24	1.31	301	0.66	0.18	-0.006	2.98	349.7	347.0 NC
4769.5	-18.3		11.3	0.42	2.40	1.85	1.07	311	0.89	0.16	-0.006	2.68	350.1	
4586.7	-15.8		19.9	0.42	2.70	2.00	1.23	297	0.90	0.17	-0.013	3.17	349.8	347.0 NC
4421.7	-14.9		37.3	0.36	2.50	2.01	1.18	284	0.43	0.15	-0.013	2.62	349.5	
4228.6	-13.7		65.3	0.31	2.88	2.30	1.45	285	0.31	0.16	-0.009	2.80	349.3	346.8 NC
3967.5	-11.8		82.0	0.29	3.26	2.49	1.63	284	0.29	0.18	-0.010	2.83	349.1	
3948.5	-9.4		81.6	0.29	3.26	2.59	1.55	275	0.41	0.19	-0.007	3.07	349.2	347.0 NC
4582.4	-7.5		98.0	0.28	3.64	2.81	1.84	277	0.67	0.22	-0.006	4.14	348.9	
5578.4	-5.1		120.4	0.27	3.63	2.78	1.76	277	0.62	0.22	-0.007	3.88	348.8	346.5 D
5920.4	-2.0		132.9	0.26	4.35	3.27	2.13	286	0.51	0.25	-0.006	4.13	348.2	
6074.0	-0.8		119.4	0.26	4.30	3.24	2.04	288	0.44	0.25	-0.003	3.78	348.0	346.2 D
6311.8	0.9		132.1	0.24	4.22	3.26	2.09	290	0.32	0.23	-0.004	3.53	347.9	
6609.3	6.9		179.1	0.21	4.20	3.30	2.21	293	0.20	0.22	-0.007	3.50	347.5	345.6 D
0.0	24.1		324.5	0.19	4.24	3.37	2.17	296	0.24	0.23	-0.006	3.57	347.0	
0.0	43.5		441.3	0.18	4.18	3.36	2.27	300	0.19	0.22	-0.014	4.18	346.9	345.1 A
0.0	52.5		512.2	0.17	4.47	3.50	2.24	291	0.31	0.25	-0.015	4.32	346.7	
														344.9 A
														344.9 A
														345.1 A
														I
														345.6 A
														345.7 A
														345.6 A
														346.0 A
														346.1 A
														345.7 A
														345.9 A
														346.4 D
6609.3	52.5		512.2	0.47	4.47	3.50	2.27	326	1.82	0.25	-0.003	4.92	350.2	347.3
0.0	-18.8		1.3	0.17	2.40	1.80	1.04	275	0.19	0.15	-0.015	2.62	346.7	344.9
4570.2	-5.0		100.0	0.34	3.31	2.54	1.60	297	0.55	0.20	-0.009	3.43	349.0	346.2
197.4	-0.2													

IBP site June 15

Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000															
030															
100															
130															
200															
230															
300															
330															
400															
430															
500															
530															
600															
630															
700															
730															
800															
830															
900															
930															
1000															
1030															
1100															
1130															
1200															
1230															
1300	5.4	5.9	84.6	6.0	6.0	83.0	6.5	6.1	80.9	7.1	4.5	0.2		626.5	82.4
1330	6.1	5.9	81.5	6.8	6.1	79.9	7.4	6.1	76.6	8.3	5.2	0.3		641.3	85.0
1400	6.5	6.1	81.2	7.2	6.2	80.0	7.8	6.3	77.3	9.3	5.8	0.5		650.2	87.0
1430	6.9	6.3	81.4	7.5	6.4	80.6	8.1	6.5	78.7	10.6	6.3	0.8		651.5	87.5
1500	5.9	6.6	91.8	6.5	6.8	90.5	7.2	6.9	87.8	11.2	6.5	1.2		651.7	87.5
1530	5.4	6.5	92.8	6.1	6.5	90.0	6.7	6.7	88.3	11.0	6.8	1.5		620.4	87.2
1600	5.1	6.3	92.2	5.8	6.4	89.6	6.4	6.4	87.0	10.8	6.9	1.8		640.9	87.3
1630	4.9	6.1	90.8	5.6	6.3	89.4	6.2	6.3	86.8	11.0	7.0	2.0		596.0	82.0
1700	5.0	6.2	91.6	5.6	6.3	90.2	6.1	6.4	87.6	11.1	7.1	2.1		562.6	78.4
1730	4.5	6.0	91.1	5.0	6.1	90.4	5.4	6.1	88.1	10.3	7.1	2.2		386.1	53.0
1800	4.5	5.9	89.8	5.0	6.1	89.3	5.4	6.1	86.8	9.8	7.0	2.2		398.1	55.7
1830	4.5	5.8	88.8	5.2	6.0	88.0	5.6	6.0	85.8	9.9	7.0	2.1		474.2	68.8
1900	4.8	5.9	87.9	5.4	6.1	88.3	5.8	6.1	85.6	9.8	6.9	2.1		425.4	64.2
1930	4.9	5.9	87.2	5.3	6.1	88.2	5.6	6.0	85.5	9.6	6.8	2.1		340.8	53.3
2000	4.4	5.8	90.0	4.8	6.0	90.0	5.0	6.0	88.1	8.6	6.6	2.1		240.6	36.1
2030	4.3	5.8	90.4	4.6	6.0	91.4	4.7	5.9	89.2	7.7	6.3	2.0		203.0	30.1
2100	3.6	5.5	89.7	3.9	5.7	90.9	4.0	5.6	88.8	7.1	6.0	2.0		152.6	22.0
2130	3.0	5.3	90.0	3.3	5.5	91.5	3.4	5.4	89.8	6.0	5.7	1.9		126.6	17.7
2200	3.8	5.6	89.7	4.0	5.8	91.1	4.0	5.6	88.8	5.6	5.3	1.7		110.0	14.6
2230	4.6	5.9	89.7	4.8	6.1	91.4	4.9	6.0	89.0	5.3	5.1	1.6		110.8	14.9
2300	5.2	6.2	89.5	5.5	6.3	90.6	5.5	6.2	88.1	5.3	4.8	1.4		94.8	13.7
2330	4.8	6.1	91.0	5.0	6.3	92.3	5.0	6.1	90.0	4.8	4.6	1.3		96.5	16.3
Max	6.9	6.6	92.8	7.5	6.8	92.3	8.1	6.9	90.0	11.2	7.1	2.2		651.7	87.5
Min	3.0	5.3	81.2	3.3	5.5	79.9	3.4	5.4	76.6	4.8	4.5	0.2		94.8	13.7
Ave	4.9	6.0	88.8	5.4	6.1	88.5	5.8	6.1	86.1	8.6	6.1	1.6		400.0	55.7
Sum														15.8	2.2

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 490cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
446.9	96.8		1465.3	0.13	1.91	1.67	1.25	168	0.04	0.08	-0.214	6.54	362.7		C
462.4	95.2		1490.9	0.13	2.19	1.82	1.33	188	0.13	0.11	-0.188	6.94	362.1		
469.2	92.7		1504.9	0.13	2.24	1.84	1.54	176	0.05	0.10	-0.463	10.30	361.9		C
468.4	92.7		1506.3	0.13	2.15	1.77	1.51	156	0.04	0.09	-0.594	10.43	361.4		
470.7	91.4		1455.1	0.13	2.88	2.49	1.76	93	0.14	0.15	-0.077	6.77	361.2	360.3	A
478.9	80.6		1484.4	0.14	4.08	3.40	2.33	100	0.28	0.22	-0.037	7.71	361.6		
483.4	71.2		1470.9	0.14	4.45	3.74	2.53	97	0.33	0.25	-0.030	8.26	360.5	360.3	
441.2	68.5		1362.6	0.14	4.07	3.52	2.39	98	0.20	0.21	-0.034	7.91	360.6		
418.8	64.8		1285.4	0.14	3.92	3.30	2.19	90	0.30	0.22	-0.033	7.73	362.8	360.3	
281.7	41.7		917.2	0.14	4.25	3.47	2.31	97	0.52	0.25	-0.023	7.42	362.6		
293.3	39.5		935.3	0.14	4.03	3.39	2.31	101	0.26	0.22	-0.028	7.23	362.0	360.4	
355.6	44.6		1101.5	0.15	4.07	3.54	2.33	106	0.36	0.24	-0.025	7.91	361.8		
307.3	38.4		996.5	0.15	3.54	3.15	2.08	101	0.31	0.20	-0.029	7.25	361.9	360.4	
225.6	37.6		794.5	0.16	3.74	2.96	2.00	101	0.49	0.22	-0.029	6.48	361.4		
152.4	24.6		573.1	0.15	3.54	2.99	1.94	98	0.42	0.21	-0.019	6.43	360.4	360.4	
125.2	17.5		488.6	0.15	3.13	2.57	1.72	96	0.40	0.18	-0.024	5.47	361.3		
80.5	14.2		365.5	0.14	3.30	2.72	1.70	100	0.69	0.21	-0.012	5.96	360.2	360.5	
67.3	5.6		307.2	0.14	2.98	2.49	1.56	112	0.63	0.19	-0.014	5.45	358.7		
63.5	7.4		264.6	0.13	2.77	2.34	1.50	123	0.49	0.17	-0.015	5.00	359.2	360.6	
76.5	10.9		257.6	0.14	2.85	2.35	1.51	124	0.48	0.17	-0.013	4.93	360.6		
53.2	12.3		222.0	0.14	2.60	2.08	1.36	130	0.58	0.16	-0.015	4.31	361.9	360.7	
25.1	6.9		224.5	0.17	2.13	1.73	1.00	113	1.01	0.14	-0.007	3.99	362.2		
483.4	96.8		1506.3	0.17	4.45	3.74	2.53	188	1.01	0.25	-0.007	10.43	362.8	360.7	
25.1	5.6		222.0	0.13	1.91	1.67	1.00	90	0.04	0.08	-0.594	3.99	358.7	360.3	
284.0	48.0		930.6	0.14	3.22	2.70	1.82	117	0.37	0.18	-0.087	6.84	361.3	360.4	
11.2	1.9														

IBP site June 16

Time hhmm	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	3.6	5.7	92.9	3.8	5.9	94.3	3.8	5.7	92.1	4.4	4.3	1.2		86.1	14.2
030	4.3	5.9	91.3	4.5	6.1	92.4	4.5	5.9	90.4	4.1	4.0	1.0		116.2	23.9
100	4.0	5.8	91.7	4.3	6.0	92.3	4.2	5.8	90.2	4.0	3.8	0.9		99.6	22.7
130	3.2	5.5	91.5	3.4	5.6	92.9	3.3	5.5	91.5	3.7	3.6	0.8		84.8	19.4
200	3.1	5.5	92.6	3.3	5.7	94.0	3.3	5.6	92.2	3.4	3.4	0.8		67.8	15.9
230	3.4	5.6	92.5	3.5	5.8	94.5	3.5	5.6	92.2	3.1	3.2	0.7		62.5	14.4
300	3.2	5.5	92.1	3.4	5.7	93.6	3.3	5.5	91.6	2.8	3.0	0.6		69.5	15.5
330	3.0	5.4	91.5	3.2	5.6	93.1	3.1	5.5	91.3	2.6	2.8	0.5		73.1	15.8
400	3.5	5.5	90.7	3.6	5.7	92.1	3.6	5.5	89.9	2.3	2.6	0.4		90.9	19.4
430	4.2	5.8	90.2	4.3	5.9	91.5	4.3	5.8	89.0	2.3	2.5	0.4		112.8	22.6
500	5.2	6.3	91.4	5.4	6.4	92.9	5.3	6.2	89.9	2.5	2.4	0.3		107.6	18.5
530	5.5	6.5	92.8	5.7	6.7	93.9	5.7	6.4	90.3	2.7	2.4	0.3		125.1	22.6
600	5.1	6.4	93.9	5.2	6.6	95.5	5.0	6.3	92.6	2.7	2.3	0.3		86.9	12.5
630	4.8	6.3	94.8	5.1	6.5	95.3	4.9	6.2	92.6	2.4	2.2	0.2		107.2	15.9
700	4.6	6.2	93.6	5.0	6.4	94.4	4.9	6.2	91.8	2.3	2.2	0.2		154.0	23.8
730	3.8	5.9	95.1	4.5	6.6	100.0	4.6	6.2	93.5	2.7	2.2	0.2		251.9	43.9
800	3.5	5.7	92.4	4.1	6.3	99.4	4.2	5.8	90.3	2.9	2.2	0.1		227.8	37.4
830	4.1	5.7	89.9	4.7	6.2	92.9	4.7	5.9	87.9	2.8	2.2	0.1		219.1	32.5
900	4.8	5.9	87.6	5.5	6.2	89.0	5.5	6.0	86.0	3.0	2.2	0.1		251.9	37.5
930	6.5	6.3	84.4	7.2	6.7	85.4	7.4	6.5	82.4	3.5	2.4	0.1		349.7	52.3
1000	6.2	5.9	80.8	6.9	6.3	81.9	7.0	6.1	79.2	4.0	2.6	0.2		390.6	58.7
1030															
1100	5.8	5.5	77.2				6.7	5.8	76.1	4.8	3.2	0.4		516.3	70.0
1130	6.1	5.6	76.1				7.1	5.8	75.2	5.1	3.4	0.7		612.2	88.1
1200	5.7	5.5	77.0	6.2	6.5	89.3	6.5	5.7	76.2	5.5	3.6	0.8		558.7	80.1
1230	4.4	5.3	81.6	4.7	6.3	94.4	5.0	5.5	81.0	5.2	3.6	0.9		415.8	58.0
1300	4.5	5.3	81.6	4.7	6.3	94.5	5.2	5.5	79.6	5.5	3.9	1.0		546.3	76.8
1330	4.1	5.2	82.2	4.3	6.2	96.3	4.9	5.4	80.3	6.0	4.0	1.0		565.1	79.7
1400	4.1	5.3	82.3	4.3	6.3	97.1	5.0	5.4	80.1	6.6	4.3	1.1		682.2	97.6
1430	3.7	5.3	85.1	4.0	6.3	99.5	4.6	5.4	82.4	6.9	4.4	1.2		565.2	80.5
1500	2.6	5.3	91.6	2.8	6.3	100.0	3.3	5.4	88.9	6.8	4.3	1.3		425.3	62.0
1530	1.2	4.9	94.1	1.7	6.0	100.0	2.2	5.2	91.9	6.5	4.3	1.4		420.8	62.5
1600	0.9	4.8	94.3	1.3	5.7	100.0	1.7	5.0	91.8	6.4	4.3	1.4		392.4	56.6
1630	1.4	4.8	91.1	1.9	5.7	100.0	2.5	5.0	88.0	6.9	4.3	1.4		516.2	75.5
1700	0.7	4.8	95.0	1.1	5.7	100.0	1.6	5.0	92.8	6.6	4.3	1.4		378.1	56.1
1730	0.5	4.8	96.5	0.8	5.6	100.0	1.3	5.0	94.0	5.9	4.2	1.4		396.0	59.7
1800	0.2	4.8	97.6	0.4	5.6	100.0	0.8	4.9	96.8	5.6	4.1	1.4		352.8	53.5
1830	0.0	4.7	97.5	0.3	5.6	100.0	0.7	4.9	97.1	5.2	3.9	1.4		322.5	48.8
1900	-0.2	4.7	98.1	0.0	5.8	100.0	0.4	4.8	97.4	4.9	3.8	1.3		271.5	40.8
1930	-0.5	4.6	98.8	-0.3	5.9	100.0	0.1	4.8	98.6	4.3	3.6	1.3		231.6	34.2
2000	-0.6	4.6	99.2	-0.4	5.9	100.0	-0.1	4.7	98.7	4.1	3.4	1.2		237.9	36.6
2030	-0.9	4.6	100.0	-0.7	5.8	100.0	-0.4	4.7	99.3	3.8	3.2	1.1		206.3	31.9
2100	-1.1	4.8	100.0	-1.0	5.8	100.0	-0.7	4.6	100.0	3.3	3.0	1.1		158.8	23.4
2130	-1.2	4.6	100.0	-1.0	5.8	100.0	-0.8	4.6	100.0	2.9	2.8	1.0		134.1	19.7
2200	-1.3	4.4	99.6	-1.3	5.7	100.0	-1.0	4.6	100.0	2.5	2.6	0.9		114.9	16.3
2230	-1.4	4.4	100.0	-1.3	5.8	100.0	-1.1	4.9	100.0	2.1	2.4	0.8		93.0	13.2
2300	-1.6	4.4	100.0	-1.5	5.7	100.0	-1.3	4.8	100.0	1.7	2.2	0.6		75.9	10.5
2330	-1.7	4.3	100.0	-1.6	6.2	100.0	-1.4	4.5	100.0	1.4	2.0	0.6		66.0	9.5
Max	6.5	6.5	100.0	7.2	6.7	100.0	7.4	6.5	100.0	6.9	4.4	1.4		682.2	97.6
Min	-1.7	4.3	76.1	-1.6	5.6	81.9	-1.4	4.5	75.2	1.4	2.0	0.1		62.5	9.5
Ave	2.7	5.3	91.7	2.8	6.0	96.1	3.2	5.4	90.5	4.0	3.2	0.8		263.6	40.0
Sum														22.8	3.5

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 490cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
21.0	4.4		198.6	0.17	1.25	1.04	0.45	99		0.10	-0.016	3.58	362.1	360.9	
37.9	5.8		231.0	0.21	0.75	0.68	0.33	103	1.83	0.06	-0.064	3.01	365.0		
16.3	5.7		185.6	0.23	1.18	1.00	0.55	72	1.06	0.08	-0.033	3.13	364.5	360.9	
12.5	3.6		151.4	0.23	1.53	1.32	0.71	95	1.09	0.11	-0.015	3.59	363.8		
10.7	3.1		113.9	0.24	2.33	1.71	1.14	127	1.38	0.16	-0.014	4.26	362.1	361.0	
5.6	2.9		109.2	0.23	1.42	1.13	0.47	110		0.12	-0.009	3.64	364.2		
5.2	1.8		124.2	0.22	1.35	1.05	0.54	99	1.94	0.10	-0.014	2.98	365.7	361.4	V
4.6	1.8		135.7	0.22	0.74	0.61	0.26	84		0.06	-0.025	2.28	364.7		
4.8	1.1		165.6	0.21	0.71	0.59	0.32	137	1.77	0.06	-0.065	2.36	367.3	361.6	V
22.7	3.6		212.7	0.20	0.75	0.62	0.30	145		0.06	-0.048	2.52	367.1		
34.1	8.1		224.3	0.17	1.19	0.92	0.50	198	1.55	0.08	-0.019	2.59	369.6	365.1	V
44.7	11.7		263.8	0.18	2.07	1.70	1.02	195	0.77	0.13	-0.010	3.85	365.7		
14.4	10.6		201.4	0.14	2.74	2.05	1.39	200	1.18	0.18	0.003	4.34	364.7		I
19.1	7.9		247.1	0.15	2.45	1.85	1.29	233	0.62	0.15	-0.009	3.32	363.7		
59.2	8.4		362.6	0.15	2.16	1.69	0.84	257		0.17	-0.014	4.95	365.4	364.3	V
148.9	16.8		580.0	0.17	3.52	2.76	1.41	277		0.32	-0.014	10.87	360.9		
117.3	16.1		554.0	0.16	3.57	3.08	1.11	282		0.34	-0.006	10.68	359.6	360.8	V
114.8	16.6		546.0	0.15	2.92	2.42	0.98	279		0.28	-0.011	8.24	356.7		
141.0	24.0		625.6	0.15	3.36	2.88	1.57	270		0.34	-0.013	10.45	357.9	361.7	V
225.0	40.3		837.2	0.15	3.95	3.33	2.26	261	1.67	0.29	-0.026	9.62	358.8		
263.9	45.3		917.6	0.15	4.92	4.14	2.79	265		0.48	-0.015	11.01	357.9	361.1	V
347.4	48.3		1136.2	0.14	5.97	4.72	3.52	269	0.43	0.34	-0.020	10.25	352.8	360.0	D
447.2	60.8		1381.5	0.14	6.70	5.38	3.92	264	0.31	0.36	-0.016	10.27	351.1		
396.1	59.8		1286.8	0.14	6.92	5.48	3.96	270	0.45	0.40	-0.012	11.01	354.8	359.1	D
283.1	38.0		981.6	0.14	6.22	5.18	3.35	277	0.44	0.37	-0.006	9.88	355.3		
389.8	50.0		1255.5	0.14	6.15	5.35	2.88	285	1.31	0.44	-0.004	13.11	354.3	357.9	D
409.6	52.0		1286.3	0.14	5.95	4.98	2.65	289	1.59	0.43	-0.005	12.50	352.6		
498.4	61.5		1536.6	0.14	6.18	4.97	2.13	294		0.54	-0.004	15.05	355.0	357.5	D
404.5	54.4		1291.1	0.14	5.98	4.68	1.94	298		0.53	-0.004	14.50	355.4		
326.3	39.9		950.0	0.15	5.43	4.46	1.90	313		0.46	-0.004	13.58	354.4	359.0	V
334.9	33.3		941.7	0.15	4.72	3.84	1.63	307		0.40	-0.007	12.13	353.2		
300.7	32.1		907.2	0.14	4.92	4.10	1.89	316		0.40	-0.006	11.97	354.2	359.3	D
394.5	41.0		1150.9	0.15	4.78	3.96	1.65	304		0.42	-0.007	12.68	355.4		
293.8	31.8		840.9	0.15	5.06	4.23	1.83	313		0.43	-0.005	12.93	354.4	360.1	D
317.1	24.9		876.7	0.15	5.55	4.46	2.26	319		0.43	-0.006	11.85	354.6		
282.1	23.2		771.7	0.15	5.36	4.28	2.22	321		0.41	-0.005	11.10	353.8	360.7	
260.7	20.1		707.0	0.15	5.15	4.13	2.14	325		0.39	-0.006	10.73	355.2		
219.4	17.0		597.1	0.15	4.84	3.79	2.46	330	0.90	0.31	-0.012	8.35	356.7	360.8	
187.6	11.7		510.2	0.15	4.91	3.91	2.10	323	1.80	0.36	-0.006	9.82	355.1		
192.8	12.6		519.3	0.15	4.76	3.96	1.82	321		0.39	-0.004	11.36	355.7	360.7	
164.9	10.2		443.4	0.16	4.63	3.74	2.15	325	1.24	0.32	-0.007	8.68	355.7		
128.9	6.5		345.6	0.15	4.17	3.13	2.07	332	1.66	0.29	-0.013	8.49	357.0	360.6	
108.5	4.4		291.1	0.15	3.74	3.08	1.66	327	1.57	0.27	-0.007	7.77	357.6		
92.5	2.3		247.2	0.14	3.98	3.27	1.74	326	1.68	0.29	-0.004	8.13	357.2	360.5	
75.1	0.5		200.3	0.14	3.64	2.94	1.55	320	1.84	0.27	-0.006	7.51	358.6		
60.2	-1.1		164.1	0.14	3.45	2.84	1.44	315		0.26	-0.006	7.53	358.8	360.5	
51.6	-2.2		142.3	0.14	3.17	2.64	1.34	319		0.24	-0.005	6.94	356.7		
498.4	61.5		1536.6	0.24	6.92	5.48	3.96	332	1.94	0.54	0.003	15.05	369.6	365.1	
4.6	-2.2		109.2	0.14	0.71	0.59	0.26	72	0.31	0.06	-0.065	2.28	351.1	357.5	
176.4	20.7		590.4	0.16	3.77	3.07	1.67	251	1.25	0.29	-0.013	8.28	358.8	360.7	
15.2	1.8														

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-2.0	4.2	100.0	-1.9	5.8	100.0	-1.7	4.4	100.0	1.0	1.8	0.5		50.2	6.6
030	-2.0	4.3	100.0	-1.9	5.7	100.0	-1.7	4.4	100.0	0.7	1.6	0.4		39.2	5.0
100	-1.9	4.3	100.0	-1.8	5.7	100.0	-1.7	4.4	100.0	0.5	1.4	0.3		33.8	3.5
130	-2.1	4.2	100.0	-2.1	5.6	100.0	-1.9	4.3	100.0	0.2	1.2	0.2		28.7	3.3
200	-2.3	4.2	100.0	-2.3	5.6	100.0	-2.1	4.3	100.0	0.0	1.1	0.1		23.5	2.4
230	-2.4	4.2	100.0	-2.3	5.6	100.0	-2.2	4.2	100.0	-0.2	0.9	0.0		22.7	1.9
300	-2.4	4.2	100.0	-2.2	5.5	100.0	-2.3	4.2	100.0	-0.3	0.8	-0.1		23.7	2.4
330	-2.5	4.1	100.0	-2.3	5.6	100.0	-2.3	4.2	100.0	-0.3	0.7	-0.2		25.9	2.9
400	-2.4	4.2	100.0	-2.3	5.6	100.0	-2.2	4.2	100.0	-0.3	0.6	-0.2		31.7	3.7
430	-2.5	4.1	100.0	-2.4	5.5	100.0	-2.3	4.2	100.0	-0.4	0.4	-0.3		41.4	5.5
500	-2.6	4.1	100.0	-2.5	5.5	100.0	-2.4	4.2	100.0	-0.4	0.4	-0.3		52.2	7.0
530	-2.6	4.1	100.0	-2.5	5.5	100.0	-2.4	4.2	100.0	-0.4	0.3	-0.4		62.3	8.6
600	-2.6	4.0	100.0	-2.6	5.5	100.0	-2.4	4.2	100.0	-0.2	0.3	-0.4		78.5	11.7
630	-2.5	4.1	100.0	-2.5	5.5	100.0	-2.3	4.2	100.0	-0.1	0.3	-0.5		117.6	18.3
700	-2.5	4.1	100.0	-2.4	5.5	100.0	-2.2	4.3	100.0	0.1	0.3	-0.5		142.7	22.2
730	-2.4	4.1	100.0	-2.3	5.6	100.0	-2.0	4.3	100.0	0.4	0.4	-0.5		164.7	25.7
800	-2.2	4.2	100.0	-2.0	5.7	100.0	-1.6	4.4	100.0	1.0	0.6	-0.5		223.7	35.1
830	-2.1	4.2	100.0	-1.9	5.7	100.0	-1.6	4.4	100.0	1.2	0.7	-0.5		223.3	35.1
900	-2.0	4.2	100.0	-1.8	5.7	100.0	-1.6	4.5	100.0	1.3	0.9	-0.5		252.5	40.5
930	-1.4	4.3	98.1	-1.3	5.8	100.0	-1.0	4.6	100.0	1.6	1.1	-0.4		362.2	57.5
1000	-0.9	4.3	94.8	-1.0	5.7	100.0	-0.4	4.4	92.8	2.3	1.6	-0.4		479.5	78.7
1030	-0.3	4.2	88.5	-0.3	5.5	100.0	0.6	4.5	89.1	3.7	2.3	-0.4		555.1	85.3
1100	-0.5	4.4	93.4	-0.4	5.6	100.0	0.3	4.8	97.6	4.6	2.8	-0.3		592.6	90.8
1130															
1200															
1230															
1300															
1330	-0.1	4.1	85.8	0.5	4.5	89.7	1.4	4.8	89.9	7.3	4.9	1.5		622.0	92.1
1400	150cm			73cm			32cm								
1400	-0.1	4.1	85.9	0.4	4.5	89.6	1.4	4.7	87.9	7.6	5.1	1.6		640.9	94.9
1430	0.1	4.0	82.5	0.6	4.5	89.3	1.8	4.6	84.9	8.3	5.3	1.8		655.3	96.9
1500	0.0	4.0	83.0	0.6	4.4	88.2	1.7	4.6	83.7	8.8	5.5	2.0		658.9	98.7
1530	0.0	4.0	83.0	0.5	4.4	88.6	1.7	4.6	84.0	9.2	5.6	2.2		629.4	98.2
1600	0.2	3.9	80.4	0.6	4.5	89.6	1.8	4.6	84.3	9.5	5.8	2.3		649.9	97.6
1630	0.3	3.9	79.0	0.9	4.5	88.2	2.0	4.6	84.0	9.6	5.8	2.5		623.2	94.7
1700	0.9	4.0	78.4	1.4	4.6	86.7	2.5	4.6	81.2	10.2	6.0	2.6		611.7	93.8
1730	0.7	4.0	79.1	1.2	4.6	88.2	2.2	4.6	81.8	10.0	6.1	2.7		594.1	92.3
1800	0.6	4.1	80.8	1.1	4.7	89.2	2.1	4.5	81.5	10.2	6.2	2.8		555.1	87.8
1830	0.6	4.2	83.9	1.1	4.7	89.8	2.1	4.6	83.0	9.9	6.2	2.8		474.2	76.7
1900	0.5	4.3	86.2	1.1	4.6	87.5	2.1	4.7	84.1	9.7	6.3	2.7		414.6	68.6
1930	0.6	4.4	88.1	1.3	4.6	86.8	2.2	4.8	86.2	9.3	6.3	2.7		408.5	70.4
2000	0.2	4.4	90.9	0.8	4.6	89.4	1.8	4.8	87.2	8.9	6.3	2.6		339.8	59.3
2030	0.1	4.3	88.5	0.6	4.4	88.0	1.4	4.6	86.6	8.5	6.2	2.6		303.7	55.8
2100	0.1	4.3	87.9	0.6	4.4	86.6	1.4	4.5	84.5	7.6	6.0	2.6		292.1	56.3
2130	0.0	4.2	87.5	0.4	4.3	85.9	1.1	4.4	83.8	6.5	5.8	2.5		238.3	47.7
2200	-0.3	4.2	89.1	0.1	4.3	87.5	0.7	4.3	84.0	5.4	5.5	2.3		207.3	43.1
2230	-0.7	4.2	90.2	-0.3	4.2	88.7	0.2	4.2	85.1	4.4	5.1	2.2		190.4	41.7
2300	-0.8	4.1	90.2	-0.5	4.2	89.5	0.0	4.2	86.1	3.8	4.8	2.0		170.0	37.7
2330	-1.0	4.1	91.9	-0.8	4.2	91.0	-0.3	4.1	87.7	3.2	4.5	1.8		141.5	32.3
Max	0.9	4.4	100.0	1.4	5.8	100.0	2.5	4.8	100.0	10.2	6.3	2.8		658.9	98.7
Min	-2.6	3.9	78.4	-2.6	4.2	85.9	-2.4	4.1	81.2	-0.4	0.3	-0.5		22.7	1.9
Ave	-1.0	4.2	92.4	-0.7	5.1	94.5	-0.2	4.4	92.3	4.2	3.2	1.0		296.6	47.5
Sum														25.6	4.1

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 490cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
39.4	-4.0		108.0	0.13	3.36	2.78	1.40	320		0.26	-0.005	7.37	356.7	360.6
32.0	-5.1		85.1	0.13	3.13	2.56	1.27	316		0.24	-0.005	6.92	357.5	
29.1	-4.9		71.3	0.10	2.97	2.36	1.29	323	1.75	0.22	-0.005	5.76	358.9	360.6
23.9	-5.6		60.2	0.12	3.30	2.82	1.55	325	1.23	0.23	-0.004	6.70	359.1	
19.6	-6.6		49.8	0.10	3.28	2.74	1.42	322	1.93	0.25	-0.004	7.02	358.8	360.3 D
19.8	-6.4		47.9	0.08	2.61	2.16	1.48	310	0.34	0.15	-0.013	3.91	359.4	
19.7	-5.7		51.0	0.10	2.63	2.15	1.37	329	0.68	0.16	-0.010	4.43	358.3	360.6
22.0	-4.9		55.9	0.11	2.37	1.92	1.19	327	0.84	0.15	-0.014	4.30	358.6	
27.3	-3.6		67.5	0.12	2.20	1.84	1.27	294	0.33	0.13	-0.025	3.68	358.7	360.6
34.9	-2.3		87.5	0.13	1.94	1.59	1.43	250	0.36	0.12	-0.307	3.99	360.1	
42.2	-0.9		111.8	0.14	0.00	1.88	1.38	289	1.02	0.18	-0.033	3.46	361.6	360.6
49.8	-0.1		138.4	0.14	0.00	1.58	1.51	255		0.44	-1.938	4.60	360.8	
63.5	2.9		174.8	0.15	0.00	1.66	1.47	294	1.86	0.20	-0.197	2.86	360.0	360.7
92.0	5.5		260.5	0.16	0.00	1.95	1.59	160	0.42	0.16	-0.069	3.27	360.8	
110.5	9.2		321.0	0.16	0.00	1.87	1.55	113	0.45	0.15	-0.124	3.66	361.6	360.8
125.6	13.3		377.8	0.16	0.00	1.66	1.52	115	1.59	0.20	-0.778	4.89	361.7	
168.8	20.0		499.4	0.16	0.00	1.75	1.51	116	0.32	0.14	-0.329	4.77	360.5	360.9
160.0	19.4		516.9	0.16	0.00	1.87	1.46	33	0.07	0.10	-0.097	4.24	361.1	
161.5	20.4		605.4	0.16	0.00	1.41	1.44	27	0.07	0.10			360.9	361.0
248.3	29.8		843.5	0.16	0.00	0.96	1.33	31	0.07	0.10	-0.115		359.4	
347.1	48.1		1113.2	0.16	0.00	1.68	1.31	35	0.06	0.09	-0.140	4.48	358.9	361.1
408.6	65.2		1256.1	0.15	2.50	2.01	1.57	168	0.21	0.13	-0.163	7.93	358.7	
440.8	70.5		1330.4	0.15	2.33	2.00	1.51	39		0.00			360.8	361.0
														361.0
														361.0
454.1	70.2		1397.7	0.15	2.83	2.61	2.04	20	0.01	0.11	-0.189	6.93	360.8	
463.8	72.3		1445.3	0.15	2.79	2.34	1.75	20	0.23	0.15	-0.179	7.84	361.0	360.9
474.4	69.9		1471.9	0.15	2.73	2.33	1.89	25	0.05	0.12	-0.363	10.70	360.8	
480.3	70.4		1490.5	0.15	2.83	2.51	1.97	48	0.02	0.11	-0.240	7.58	359.8	361.0
477.9	70.9		1480.1	0.16	2.94	2.26	1.79	30	0.54	0.17	-0.313	10.50	360.5	
470.0	66.8		1446.5	0.15	2.93	2.35	1.90	60	0.17	0.15	-0.339	10.60	359.9	361.0
451.8	60.6		1415.9	0.15	3.18	2.76	2.07	30	0.08	0.15	-0.147	7.32	360.0	
436.4	61.6		1365.5	0.15	3.05	2.45	1.86	95	0.37	0.17	-0.187	9.52	360.1	361.0
417.1	54.0		1332.0	0.16	3.42	2.53	1.96	51	0.97	0.22	-0.192	9.49	360.2	
390.7	46.0		1236.0	0.16	3.23	2.75	1.94	46	0.23	0.17	-0.097	7.03	360.3	361.0
341.2	39.5		1065.3	0.16	3.44	2.97	2.15	24	0.13	0.17	-0.092	6.87	361.1	
283.8	32.9		923.6	0.17	3.29	3.00	2.24	49	0.03	0.14	-0.114	7.06	359.6	361.0
276.1	31.6		927.1	0.17	3.29	3.09	2.08	62	0.14	0.17	-0.068	7.46	361.2	
218.2	26.4		786.5	0.18	3.01	2.78	1.85	79	0.17	0.16	-0.080	7.38	360.9	361.0
185.1	19.7		700.6	0.18	3.14	2.58	1.81	71	0.53	0.18	-0.095	8.78	361.3	
172.0	11.2		691.1	0.19	3.22	2.82	1.93	58	0.20	0.17	-0.069	6.65	360.7	360.9
122.0	3.5		568.4	0.20	3.22	2.82	1.82	72	0.34	0.18	-0.046	6.40	361.0	
92.6	-2.1		503.7	0.21	3.20	2.88	1.82	83	0.34	0.18	-0.038	6.45	361.5	360.8
76.0	-6.7		443.2	0.22	3.44	3.07	2.01	84	0.25	0.19	-0.033	6.25	361.9	
55.0	-7.9		387.7	0.22	3.02	2.62	1.68	82	0.44	0.18	-0.036	5.68	361.0	360.7
27.2	-9.5		317.2	0.23	2.88	2.39	1.44	95	0.86	0.19	-0.032	5.51	361.3	
480.3	72.3		1490.5	0.23	3.44	3.09	2.24	329	1.93	0.44	-0.004	10.70	361.9	361.1
19.6	-9.5		47.9	0.08	0.00	0.96	1.19	20	0.01	0.00	-1.938	2.86	356.7	360.3
205.7	23.5		673.4	0.15	2.22	2.30	1.65	136	0.49	0.17	-0.174	6.35	360.2	360.8
17.8	2.0													

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Time h	Ta1 C 150cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-1.3	4.1	94.3	-1.2	4.2	93.3	-0.8	4.1	89.9	2.4	4.1	1.6		117.3	27.4
030	-1.5	4.1	94.6	-1.3	4.1	93.5	-1.0	4.1	90.3	1.8	3.7	1.4		100.6	23.8
100	-1.8	4.1	95.8	-1.7	4.1	95.2	-1.5	4.0	92.4	1.3	3.3	1.3		76.0	17.6
130	-2.1	4.0	96.6	-2.0	4.0	96.2	-2.1	4.0	95.1	0.6	2.9	1.1		36.4	5.1
200	-2.2	4.0	97.3	-2.2	4.0	96.9	-2.2	4.0	96.5	0.4	2.5	1.0		31.2	4.4
230	-2.5	4.0	98.6	-2.4	4.5	100.0	-2.4	3.9	96.8	0.2	2.2	0.8		27.4	3.6
300	-2.4	4.1	99.5	-2.3	4.4	100.0	-2.3	4.7	100.0	0.1	1.9	0.7		39.4	6.7
330	-2.2	4.1	98.3	-2.0	4.2	99.3	-1.8	4.1	97.1	0.1	1.8	0.5		73.4	14.5
400	-1.9	4.2	98.4	-1.7	4.2	98.3	-1.4	4.2	95.5	0.1	1.7	0.3		89.2	18.9
430	-1.6	4.1	96.0	-1.5	4.2	95.6	-1.2	4.1	93.5	0.2	1.5	0.2		105.0	22.8
500	-1.4	4.1	94.3	-1.1	4.2	92.9	-0.7	4.1	89.6	0.4	1.4	0.1		148.9	32.0
530	-1.3	4.2	94.7	-1.1	4.2	93.4	-0.9	4.2	91.5	0.6	1.4	0.0		96.0	16.5
600	-1.2	4.2	93.5	-1.0	4.2	92.5	-0.9	4.1	91.3	0.5	1.3	0.0		90.3	13.5
630	-1.0	4.2	92.5	-0.7	4.2	91.2	-0.5	4.2	89.6	0.8	1.2	-0.1		100.7	14.2
700	0.2	4.2	85.0	0.7	3.6	71.5	0.9	3.3	64.6	1.3	1.3	-0.2		112.4	15.7
730	0.0	4.2	87.9	0.4	3.9	78.0	0.6	3.6	71.6	1.8	1.4	-0.2		134.6	18.7
800	0.4	4.3	86.1	0.8	3.7	71.8	1.1	4.0	76.5	2.3	1.5	-0.2		146.7	20.3
830	0.5	4.4	87.7	1.0	4.2	81.3	1.4	4.4	83.6	2.7	1.6	-0.2		181.2	25.3
900	0.6	4.4	87.4	1.1	4.5	85.7	1.6	4.5	83.3	3.2	1.8	-0.2		196.1	27.6
930	1.0	4.5	86.6	1.6	4.6	84.5	2.3	4.6	81.1	3.8	2.1	-0.2		299.5	43.4
1000	1.4	4.5	85.1	2.1	4.6	83.1	2.8	4.6	79.6	4.2	2.4	-0.2		295.0	43.0
1030	2.0	4.6	82.5	2.8	4.7	80.1	3.5	4.7	76.9	5.0	2.7	-0.1		298.7	42.8
1100	2.7	4.8	82.1	3.5	4.9	79.7	4.4	5.0	76.0	6.2	3.2	-0.1		455.1	66.3
1130	5.0	5.0	73.1	5.9	5.2	71.8	7.3	5.1	65.2	7.8	3.9	0.0		578.2	85.8
1200	5.6	5.1	71.6	6.2	5.2	71.5	7.4	5.2	65.5	8.8	4.5	0.1		450.1	65.7
1230	3.8	5.2	82.6	4.6	5.3	81.0	5.5	5.4	77.0	8.9	4.8	0.5		448.6	64.8
1300	3.3	5.2	85.3	4.0	5.3	83.9	4.8	5.3	79.9	8.4	5.0	0.8		358.8	50.9
1330	3.0	5.2	86.9	3.7	5.4	86.0	4.5	5.3	81.6	8.0	5.1	1.0		389.3	55.2
1400	3.4	5.2	84.8	4.2	5.4	83.8	5.0	5.4	79.6	8.4	5.3	1.2		415.3	58.9
1430	3.4	5.2	84.7	4.1	5.4	83.8	5.0	5.4	79.6	8.8	5.5	1.3		476.3	69.1
1500	3.5	5.2	85.3	4.3	5.5	84.2	5.4	5.5	79.1	9.5	5.9	1.4		585.9	85.9
1530	3.4	5.2	85.2	4.2	5.4	84.8	5.1	5.5	80.2	9.5	6.0	1.6		476.0	69.6
1600	3.7	5.3	86.0	4.5	5.5	84.1	5.4	5.5	79.4	9.3	6.1	1.7		488.8	71.7
1630	4.0	5.3	83.3	4.8	5.5	82.1	5.8	5.6	77.9	9.9	6.3	1.8		560.4	82.2
1700	3.7	5.3	85.0	4.6	5.5	83.9	5.5	5.6	79.7	10.3	6.4	1.9		561.7	84.0
1730	3.7	5.3	85.3	4.6	5.6	84.5	5.6	5.6	79.7	10.9	6.6	2.1		567.6	86.0
1812	3.8	5.3	84.8	4.6	5.5	84.1	5.8	5.5	76.6	10.8	6.2	2.4		552.3	85.3
1830	130cm			73cm			32cm								
1830	3.4	5.1	84.7	4.1	5.3	82.8	5.0	5.3	79.1	10.5	6.6	2.3		444.3	68.5
1900	2.4	4.9	85.7	3.2	5.0	83.9	3.7	5.1	81.6	8.7	6.5	2.3		274.8	40.0
1930	2.3	4.9	86.3	3.1	5.0	84.7	3.6	5.0	81.6	8.0	6.4	2.4		286.4	41.9
2000	2.2	5.0	88.4	2.8	5.1	87.2	3.3	5.1	83.9	7.2	6.2	2.3		203.7	28.8
2030	1.9	5.0	90.4	2.5	5.1	88.5	2.8	5.0	85.8	6.5	5.9	2.3		141.5	19.4
2100	1.6	5.1	94.3	2.1	5.1	91.9	2.4	5.1	88.7	5.8	5.7	2.3		127.7	17.6
2130	1.4	5.0	93.7	1.9	5.1	91.9	2.3	5.0	88.8	5.5	5.5	2.2		148.6	21.9
2200	1.7	5.0	92.0	2.2	5.1	90.1	2.7	5.0	86.6	5.6	5.3	2.0		182.7	29.8
2230	2.2	4.8	85.5	2.6	4.9	84.1	2.9	4.8	82.2	5.5	5.1	1.9		111.5	16.7
2300	2.2	4.8	86.1	2.6	4.9	84.6	2.8	4.8	83.0	4.8	4.9	1.8		70.1	9.5
2330	2.2	5.0	88.1	2.6	5.0	86.3	2.7	4.9	84.6	4.3	4.7	1.7		57.2	7.4
Max	5.6	5.3	99.5	6.2	5.6	100.0	7.4	5.6	100.0	10.9	6.6	2.4		585.9	86.0
Min	-2.5	4.0	71.6	-2.4	3.6	71.5	-2.4	3.3	64.6	0.1	1.2	-0.2		27.4	3.6
Ave	1.3	4.7	88.6	1.8	4.8	86.7	2.3	4.7	83.5	5.0	3.9	1.0		254.4	38.3
Sum														22.0	3.3

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm^2	Albedo	U1 m/s 480cm	U3 m/s 150cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
4.6	-12.9		251.6	0.23	2.64	2.27	1.41	100	0.57	0.16	-0.032	5.03	362.1	360.7
-8.9	-14.0		207.0	0.24	2.51	2.08	1.38	100	0.41	0.14	-0.042	4.45	362.0	
-29.9	-15.5		156.3	0.23	2.57	2.11	1.32	107	0.69	0.16	-0.022	4.25	361.4	360.7
-38.9	-16.1		96.0	0.14	1.93	1.43	0.91	96		0.15	-0.004	3.15	361.8	
-37.7	-12.8		81.3	0.14	2.05	1.58	0.97	85		0.15	0.001	3.51	362.1	360.7
-43.3	-11.4		69.0	0.13	2.23	1.81	1.07	93	1.08	0.15	-0.001	3.21	361.6	
-21.9	-10.0		75.4	0.17	2.20	1.81	1.20	90	0.70	0.13	-0.014	3.75	361.4	360.7
12.8	-8.3		112.8	0.20	2.81	2.33	1.60	113	0.55	0.17	-0.027	5.29	361.4	
31.7	-6.7		142.9	0.21	2.49	2.01	1.37	117	0.83	0.16	-0.048	5.61	361.4	360.6
42.9	-4.9		190.0	0.22	2.79	2.30	1.48	124	0.55	0.17	-0.028	4.56	361.9	
65.6	-2.9		278.5	0.22	2.57	2.19	1.39	119	0.47	0.15	-0.046	5.17	362.7	360.7
32.1	-1.4		206.5	0.17	2.51	2.10	1.33	124	0.58	0.15	-0.030	4.44	362.4	
34.1	-1.2		205.3	0.15	2.60	2.23	1.34	135	0.69	0.16	-0.016	4.47	362.0	360.8
59.0	5.0		231.9	0.14	2.08	1.82	1.15	138	0.46	0.12	-0.043	4.21	362.1	
71.9	10.6		263.1	0.14	1.81	1.39	0.84	138		0.14	-0.098	6.42		361.0
90.3	15.6		315.5	0.14	1.65	1.34	0.77	127	1.33	0.11	-0.086	4.66		
98.4	20.1		347.3	0.14	1.42	1.08	0.66	131		0.11	-0.171	6.50		361.0
125.9	23.1		428.9	0.14	2.39	1.96	1.23	130	0.72	0.15	-0.068	5.43		
143.8	26.5		466.3	0.14	2.71	2.20	1.41	116	0.81	0.17	-0.066	6.38		361.2
213.1	35.6		710.5	0.15	2.95	2.46	1.70	100	0.29	0.16	-0.093	6.45		
213.2	37.6		709.5	0.15	2.82	2.32	1.60	110	0.48	0.16	-0.106	7.63		
223.4	39.2		709.4	0.14	2.62	2.38	1.54	123	0.31	0.15	-0.084	6.82		
337.4	51.3		1070.4	0.15	3.22	2.62	1.75	117	0.67	0.20	-0.096	8.43		361.2
406.1	75.4		1350.5	0.15	2.48	1.94	1.48	146	0.45	0.14	-0.446	12.90		
319.3	65.1		1063.4	0.15	1.94	1.69	1.18	140	0.18	0.10	-0.280	7.88		361.2
336.9	56.0		1064.7	0.15	3.56	3.07	2.01	101	0.37	0.20	-0.063	7.64		
269.1	47.4		857.6	0.14	3.60	3.08	2.12	95	0.23	0.19	-0.066	7.02		361.1
301.1	43.7		931.4	0.14	3.98	3.38	2.25	100	0.37	0.23	-0.049	7.43		
323.3	45.8		991.1	0.14	3.79	3.17	2.17	105	0.28	0.20	-0.067	7.34		361.1
369.3	51.2		1129.2	0.15	4.15	3.49	2.33	96	0.38	0.24	-0.051	7.76		
460.2	62.6		1371.7	0.15	4.48	3.86	2.67	94	0.19	0.23	-0.057	8.26		361.0
366.7	54.2		1125.9	0.15	4.48	3.87	2.43	95	0.50	0.27	-0.034	8.47		
366.6	49.1		1158.9	0.15	4.39	3.60	2.49	98	0.60	0.26	-0.058	9.71		360.9
418.5	55.9		1296.0	0.15	4.57	4.00	2.60	96	0.35	0.26	-0.038	8.52		
416.6	56.8		1299.2	0.15	4.73	3.88	2.63	93	0.45	0.28	-0.046	8.09		360.8
421.0	58.5		1299.7	0.15	4.34	3.64	2.67	90	0.29	0.24	-0.084	6.99		
409.2	51.7		1263.1	0.16	4.80	3.92	2.96	100	0.41	0.28	-0.089	7.60		360.7
318.8	46.3		998.6	0.15	4.41	3.60	2.62	94	0.28	0.24	-0.056	7.21		
190.6	24.0		655.8	0.15	4.53	3.68	2.70	99	0.41	0.26	-0.058	7.52	365.4	360.7
207.9	23.5		674.7	0.15	4.21	3.48	2.52	96	0.18	0.21	-0.054	5.99	364.0	
139.2	18.1		486.0	0.14	3.36	2.63	2.11	103	0.27	0.18	-0.107	6.73	362.6	360.7
102.4	12.8		339.5	0.14	3.45	2.79	2.12	101	0.34	0.19	-0.054	6.44	362.6	
92.7	9.2		307.5	0.14	3.35	2.65	2.05	91	0.35	0.19	-0.068	6.20	361.8	360.7
103.1	9.7		347.1	0.15	3.40	2.65	1.87	96	0.94	0.22	-0.040	6.70	362.1	
122.1	12.6		413.0	0.16	2.77	2.38	1.69	109	0.16	0.14	-0.089	5.06	362.8	360.8
69.3	11.4		257.0	0.15	2.38	1.88	1.44	116	0.40	0.13	-0.100	5.45	363.2	
42.4	7.2		164.1	0.14	1.94	1.46	1.11	118	0.81	0.12	-0.086	4.64	363.6	361.0
34.6	4.8		131.5	0.13	2.02	1.57	1.18	118	0.59	0.12	-0.077	4.43	364.3	
460.2	75.4		1371.7	0.24	4.80	4.00	2.96	146	1.33	0.28	0.001	12.90	365.4	361.2
-43.3	-16.1		69.0	0.13	1.42	1.08	0.66	85	0.16	0.10	-0.446	3.15	361.4	360.6
171.4	22.9		589.6	0.16	3.06	2.52	1.73	109	0.50	0.18	-0.072	6.29	362.4	360.9
14.8	2.0													

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	2.4	5.1	90.1	2.7	5.2	89.2	2.7	5.1	87.1	4.0	4.4	1.6		49.0	6.1
030	2.7	5.2	89.5	2.9	5.3	89.3	2.9	5.1	87.1	3.6	4.2	1.5		30.4	3.2
100	2.6	5.3	91.3	2.9	5.3	90.7	2.8	5.2	88.4	3.3	4.0	1.4		28.3	3.1
130	2.1	5.3	94.7	2.4	5.3	92.9	2.5	5.1	90.0	3.2	3.8	1.3		44.3	6.1
200	2.2	5.3	94.9	2.5	5.3	93.3	2.5	5.2	90.4	3.0	3.6	1.2		28.1	2.9
230	2.1	5.3	94.5	2.3	5.3	94.1	2.3	5.2	91.5	2.7	3.4	1.1		26.7	3.0
300	1.8	5.3	96.0	2.0	5.3	95.5	2.1	5.1	92.5	2.5	3.2	1.0		25.6	2.7
330	1.6	5.1	95.1	1.8	5.2	94.3	1.9	5.0	91.6	2.4	3.1	1.0		25.8	2.8
400	1.7	5.2	95.6	2.0	5.2	94.5	2.1	5.1	91.6	2.4	3.0	0.9		25.4	2.5
430	1.8	5.2	95.8	2.0	5.2	94.6	2.1	5.1	91.9	2.4	2.8	0.8		28.3	2.8
500	2.7	5.5	94.9	3.0	5.5	93.8	3.0	5.4	91.0	2.5	2.8	0.7		33.9	3.3
530	3.4	5.5	90.6	3.6	5.5	89.6	3.6	5.4	87.2	2.7	2.7	0.6		40.0	4.2
600	3.4	5.7	93.2	3.7	5.7	92.5	3.7	5.6	89.3	2.9	2.7	0.6		57.0	7.0
630	3.6	5.8	93.2	3.9	5.8	92.5	4.0	5.7	89.3	3.1	2.7	0.5		67.4	8.6
700	2.4	5.4	94.2	2.7	5.5	94.1	2.8	5.3	90.4	3.1	2.7	0.5		67.1	9.2
730	1.7	5.4	99.5	1.9	5.5	99.3	2.1	5.4	96.0	3.0	2.7	0.5		68.6	9.2
800	2.0	5.2	94.4	2.3	5.3	93.4	2.4	5.2	91.5	2.9	2.6	0.5		72.1	8.9
830	2.0	5.1	92.3	2.3	5.2	91.5	2.5	5.1	88.5	2.8	2.6	0.5		76.9	9.7
900	2.3	5.3	93.5	2.6	5.3	92.5	2.9	5.2	89.1	3.2	2.6	0.5		110.3	14.4
930	2.2	5.5	98.0	2.6	5.6	96.5	3.0	5.4	91.7	3.7	2.7	0.4		149.3	20.3
1000	2.4	5.6	98.3	2.9	5.7	96.5	3.4	5.6	91.9	4.3	2.8	0.4		181.8	24.6
1030	2.9	5.6	95.4	3.6	5.7	92.9	4.1	5.6	88.1	5.0	3.0	0.5		251.5	34.7
1100	2.9	5.6	94.1	3.5	5.7	92.5	4.1	5.6	87.6	5.5	3.1	0.5		278.9	39.1
1130	3.0	5.6	93.8	3.6	5.7	92.6	4.1	5.6	87.5	5.8	3.3	0.6		280.8	39.4
1200	3.0	5.6	94.2	3.6	5.7	92.7	4.3	5.6	87.5	6.0	3.5	0.7		309.2	44.4
1230	2.7	5.5	94.4	3.4	5.7	93.0	4.1	5.6	88.1	6.2	3.6	0.8		327.2	47.2
1300	2.6	5.3	91.5	3.3	5.4	90.3	3.9	5.4	86.3	6.4	3.8	0.9		322.6	45.7
1330	2.5	5.1	88.3	3.1	5.3	89.6	3.8	5.3	84.6	6.4	4.0	1.0		323.3	45.4
1400	2.6	5.1	87.5	3.2	5.3	87.7	3.9	5.3	83.4	7.0	4.2	1.1		359.7	50.6
1430	2.7	5.1	87.3	3.3	5.3	87.7	4.1	5.3	83.5	7.6	4.5	1.1		382.0	56.0
1500	2.9	5.0	84.8	3.4	5.3	87.8	4.4	5.4	82.7	7.8	4.7	1.3		457.9	65.8
1530	3.5	4.9	79.6	4.1	5.5	86.1	5.2	5.4	79.4	9.0	5.1	1.4		615.0	95.6
1600	3.2	4.9	81.2	3.7	5.5	88.2	5.0	5.5	81.7	9.6	5.4	1.6		634.8	97.7
1630	2.6	4.9	85.8	3.2	5.6	92.7	4.4	5.5	85.2	10.2	5.7	1.8		563.5	87.8
1700	1.9	5.0	90.6	2.6	5.4	94.3	3.7	5.4	87.8	9.7	6.0	2.1		472.7	74.5
1730	1.6	4.9	91.3	2.3	5.3	94.3	3.0	5.3	88.6	9.1	6.0	2.3		355.7	54.7
1800	1.1	4.9	93.4	1.6	5.2	95.4	2.3	5.1	89.9	8.7	5.9	2.5		291.5	44.4
1830	1.1	4.8	92.8	1.6	5.1	94.9	2.4	5.1	89.6	8.5	5.9	2.5		287.4	43.2
1900	0.9	4.9	95.0	1.5	5.1	96.1	2.0	5.1	91.6	8.0	5.8	2.6		238.6	36.2
1930	0.9	4.9	94.4	1.5	5.1	96.0	2.1	5.1	91.6	7.9	5.8	2.6		280.1	43.8
2000	0.7	4.9	96.3	1.1	5.1	98.2	1.7	5.1	94.2	7.5	5.7	2.6		238.1	37.8
2030	0.2	4.7	95.7	0.6	4.9	97.8	1.1	4.9	94.5	6.7	5.5	2.6		213.5	35.0
2100	0.1	4.7	95.8	0.5	4.9	98.4	1.1	4.9	94.2	6.1	5.3	2.6		201.5	32.3
2130	-0.2	4.6	97.8	0.1	4.8	99.1	0.5	4.8	95.7	5.5	5.1	2.6		132.1	21.2
2200	-0.5	4.5	96.5	-0.2	4.7	98.8	0.2	4.7	95.2	5.2	4.9	2.5		174.3	31.3
2230	-0.5	4.5	97.5	-0.3	4.7	99.1	0.1	4.6	95.3	4.9	4.7	2.3		140.7	24.9
2300	-0.6	4.5	98.2	-0.3	4.7	98.7	0.0	4.6	94.7	4.5	4.5	2.2		122.8	23.1
2330	-0.9	4.5	99.4	-0.7	4.6	100.0	-0.5	4.5	97.2	3.8	4.2	2.2		80.0	13.3
Max	3.6	5.8	99.5	4.1	5.8	100.0	5.2	5.7	97.2	10.2	6.0	2.6		634.8	97.7
Min	-0.9	4.5	79.6	-0.7	4.6	86.1	-0.5	4.5	79.4	2.4	2.6	0.4		25.4	2.5
Ave	1.9	5.1	93.2	2.3	5.3	93.7	2.7	5.2	89.7	5.3	4.0	1.4		199.4	29.6
Sum														17.2	2.6

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
28.1	4.1		111.7	0.12	2.04	1.64	1.23	135	0.42	0.12	-0.048	3.80	364.9	361.3 A
16.9	2.8		70.8	0.10	1.68	1.28	0.89	129	1.23	0.11	-0.034	3.24	365.4	
17.6	2.8		63.5	0.11	1.35	0.99	0.76	98	0.92	0.09	-0.073	2.91	365.4	361.5 A
26.2	4.1		88.7	0.14	1.50	1.24	0.84	99	0.38	0.09	-0.094	3.03	365.6	
14.5	3.1		62.5	0.10	1.35	0.98	0.66	106	1.99	0.10	-0.091	3.56	365.2	361.5 A
14.7	2.5		59.3	0.11	1.38	1.05	0.73	88	1.22	0.09	-0.051	2.91	365.9	
13.2	2.1		57.3	0.11	1.55	1.12	0.80	120	1.61	0.11	-0.050	3.24	365.4	361.3 A
20.3	2.5		57.1	0.11	1.65	1.27	0.86	99	1.33	0.11	-0.054	3.65	365.5	
24.1	4.0		56.8	0.10	1.48	1.14	0.76	110	1.34	0.10	-0.080	3.80	365.2	362.1 V
27.5	4.9		65.0	0.10	1.22	0.94	0.61	145	1.26	0.08	-0.094	3.18	365.7	
31.1	7.1		79.2	0.10	1.17	0.86	0.62	157	1.27	0.08	-0.125	3.24	366.1	362.6 V
35.1	8.9		93.0	0.10	1.66	1.35	0.98	220	0.49	0.10	-0.055	2.99	364.7	
47.1	11.4		131.1	0.12	1.74	1.33	0.96	240	0.95	0.11	-0.062	3.59	364.0	362.1 A
53.6	14.1		155.8	0.13	1.64	1.28	1.03	255	0.28	0.09	-0.147	3.82	364.4	
56.3	13.5		155.6	0.14	1.94	1.53	1.04	329	1.00	0.13	-0.073	4.16	364.2	362.2 A
58.3	12.1		161.4	0.14	1.94	1.56	1.03	329	0.55	0.12	-0.069	3.41	363.4	
62.3	11.7		173.2	0.12	2.69	2.22	1.32	328	0.97	0.18	-0.027	3.81	362.2	361.2 V
64.4	11.7		188.5	0.13	1.85	1.55	0.91	330	0.96	0.12	-0.069	3.51	362.1	
88.4	15.9		266.6	0.13	2.27	1.83	1.21	310	0.65	0.14	-0.078	4.21	362.8	360.7 D
115.2	20.9		358.0	0.14	2.17	1.88	1.46	290	0.03	0.09	-0.196	4.55	363.5	
137.9	25.2		437.6	0.14	2.73	2.44	1.64	281	0.20	0.15	-0.079	4.84	364.3	360.2 D
187.7	32.3		597.8	0.14	3.24	2.76	1.78	291	0.42	0.19	-0.064	5.42	364.0	
209.2	34.8		664.2	0.14	3.65	3.03	1.97	287	0.51	0.22	-0.043	5.78	363.3	359.2 D
215.3	35.0		667.1	0.14	4.22	3.42	2.16	291	0.73	0.26	-0.031	6.27	363.3	
244.5	36.9		725.1	0.14	4.09	3.33	2.21	305	0.47	0.24	-0.047	6.12	361.7	358.4 A
259.7	37.6		758.5	0.14	4.06	3.34	2.16	330	0.56	0.24	-0.056	6.06	361.1	
252.6	38.0		770.3	0.14	3.36	2.91	1.81	328	0.52	0.20	-0.062	5.88	360.9	358.6 A
248.4	36.9		779.1	0.14	3.26	2.66	1.78	313	0.49	0.19	-0.059	5.82	361.0	
271.3	42.0		864.9	0.14	2.67	2.13	1.39	274	0.74	0.17	-0.074	5.73	361.1	359.1 D
288.6	48.8		915.1	0.15	2.53	1.91	1.49	339	0.72	0.16	-0.125	7.49	361.5	
328.8	52.7		1049.2	0.14	2.51	2.03	1.51	299	0.39	0.14	-0.167	7.66	361.2	359.5 A
458.0	74.7		1518.8	0.16	2.80	2.16	1.65	262	0.68	0.17	-0.120	8.33	361.9	
457.7	72.0		1461.9	0.15	2.81	2.23	1.79	275	0.28	0.15	-0.169	8.56	361.5	359.5 A
412.7	65.8		1281.6	0.16	3.05	2.54	1.83	288	0.24	0.17	-0.100	6.62	362.3	
354.2	51.5		1057.4	0.16	3.25	2.55	1.78	277	0.64	0.20	-0.079	7.21	362.8	359.3 A
268.1	39.3		801.4	0.15	2.67	2.22	1.76	96	0.10	0.13	-0.149	6.38	362.8	
217.3	31.1		659.6	0.15	2.59	2.12	1.66	31	0.21	0.14	-0.150	7.10	362.5	359.5 A
214.4	31.2		650.0	0.15	2.37	1.96	1.55	33	0.12	0.12	-0.180	6.58	361.6	
178.3	25.9		542.2	0.15	2.41	1.92	1.44	30	0.47	0.14	-0.119	6.57	361.4	359.8 A
210.5	28.9		626.5	0.16	2.02	1.76	1.36	93	0.04	0.09	-0.265	5.55	361.9	
178.0	25.2		530.2	0.16	2.26	1.87	1.48	137	0.14	0.11	-0.191	6.63	361.3	359.5 A
153.5	16.9		478.7	0.16	2.71	2.16	1.70	169	0.36	0.15	-0.078	6.17	362.1	
147.8	14.0		454.9	0.16	2.56	2.12	1.61	171	0.14	0.13	-0.096	4.87	360.8	359.4 A
90.4	9.5		304.2	0.16	2.29	1.98	1.45	48	0.11	0.11	-0.091	4.15	360.6	
110.4	8.1		407.1	0.18	1.91	1.62	1.23	28	0.11	0.09	-0.130	4.37	360.1	359.8 A
80.8	5.5		327.3	0.18	1.74	1.55	1.09	82	0.12	0.09	-0.168	4.02	359.6	
59.0	3.4		282.8	0.19	1.69	1.50	1.01	32	0.23	0.09	-0.120	3.97	361.5	359.8 A
36.8	-1.4		185.8	0.17	1.68	1.44	1.01	21	0.19	0.09	-0.104	3.39	363.2	
458.0	74.7		1518.8	0.19	4.22	3.42	2.21	339	1.99	0.26	-0.027	8.56	366.1	362.6
13.2	-1.4		56.8	0.10	1.17	0.86	0.61	21	0.03	0.08	-0.265	2.91	359.6	358.4
147.6	22.5		463.6	0.14	2.32	1.89	1.33	194	0.60	0.13	-0.098	4.96	363.0	360.3
12.8	1.9													

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-1.1	4.5	99.8	-0.9	4.5	100.0	-0.8	4.5	98.1	3.1	3.9	2.0		73.0	12.8
030	-1.2	4.5	100.0	-1.1	4.5	100.0	-1.0	4.4	97.9	2.4	3.6	1.9		68.8	12.7
100	-1.3	4.6	100.0	-1.2	4.6	100.0	-1.2	4.4	98.1	1.8	3.3	1.7		63.8	12.2
130	-1.1	4.7	100.0	-1.1	4.8	100.0	-1.2	4.4	98.0	1.3	3.0	1.5		60.0	11.9
200	-1.0	4.6	100.0	-1.2	4.7	100.0	-1.4	4.3	97.5	0.8	2.8	1.3		66.2	14.0
230	-0.6	4.4	94.3	-0.9	4.5	100.0	-1.3	4.3	96.7	0.3	2.5	1.1		36.9	5.4
300	-0.5	4.4	95.0	-0.5	4.3	93.1	-0.6	4.5	98.1	0.4	2.3	1.0		31.5	3.9
330	0.2	4.7	96.5	0.2	4.4	89.5	0.1	4.7	96.8	0.8	2.2	0.9		38.3	5.0
400	0.4	4.8	96.4	0.5	4.8	96.3	0.3	4.8	96.3	0.9	2.0	0.7		42.6	5.5
430	0.6	4.8	94.7	0.7	4.8	95.0	0.6	4.8	95.4	1.0	2.0	0.6		30.4	3.1
500	0.9	4.8	93.7	1.1	4.9	93.6	1.0	4.9	94.4	1.3	1.9	0.5		52.0	6.6
530	1.3	4.9	92.3	1.6	4.9	91.9	1.5	5.0	93.3	1.8	1.9	0.4		90.1	13.0
600	1.3	4.8	90.9	1.5	4.9	91.2	1.5	4.9	91.2	1.9	1.9	0.3		76.7	10.7
630	1.3	4.9	92.0	1.6	4.9	91.8	1.7	4.9	89.4	2.1	2.0	0.3		88.7	11.9
700	1.7	4.9	89.9	2.0	5.0	89.5	2.1	4.9	87.4	2.3	2.0	0.3		82.2	10.6
730	1.7	4.8	89.3	2.0	4.9	88.8	2.2	4.8	86.4	2.4	2.1	0.3		90.1	11.9
800	1.8	4.6	84.4	2.1	4.7	84.0	2.3	4.6	81.9	2.5	2.1	0.3		87.2	11.5
830	1.8	4.5	83.1	2.1	4.6	82.5	2.2	4.5	80.6	2.5	2.1	0.4		97.1	12.9
900	2.0	4.4	79.1	2.3	4.5	79.6	2.5	4.5	78.0	2.7	2.1	0.4		106.3	14.0
930	2.0	4.4	79.7	2.3	4.5	80.0	2.5	4.5	78.1	2.8	2.2	0.4		114.7	14.9
1000	2.0	4.5	81.0	2.4	4.6	80.7	2.6	4.5	78.2	3.1	2.2	0.4		132.4	17.3
1030	2.2	4.7	83.4	2.6	4.8	83.1	2.8	4.7	80.6	3.5	2.3	0.4		170.8	23.2
1100	2.4	4.6	80.2	2.8	4.7	80.3	3.1	4.7	78.3	3.8	2.5	0.5		162.9	21.5
1130	2.3	4.6	80.9	2.6	4.7	81.5	2.9	4.6	78.7	3.9	2.6	0.5		155.5	20.6
1200	2.0	4.6	83.8	2.4	4.8	84.2	2.6	4.7	81.5	3.8	2.6	0.6		148.7	19.6
1230	1.9	4.8	86.6	2.2	4.9	86.6	2.5	4.8	84.3	3.8	2.7	0.6		152.3	20.1
1300	1.4	4.9	91.3	1.8	5.0	92.0	2.0	5.0	89.5	3.7	2.7	0.7		147.4	19.4
1330	1.1	4.8	91.9	1.5	5.0	94.2	1.8	5.0	91.4	3.7	2.7	0.8		166.1	21.9
1400	1.0	4.9	94.2	1.4	5.1	95.3	1.6	5.0	93.1	3.7	2.8	0.8		144.1	18.2
1430	0.7	4.8	93.9	1.1	4.9	94.4	1.3	4.9	92.1	3.4	2.7	0.8		143.5	18.4
1500	0.8	4.7	92.1	1.1	4.8	92.8	1.4	4.8	90.2	3.4	2.7	0.8		170.5	22.5
1530	0.8	4.6	90.1	1.1	4.7	90.7	1.4	4.7	88.3	3.5	2.8	0.8		178.4	24.0
1600	0.7	4.5	89.1	1.1	4.6	89.1	1.4	4.6	86.3	3.7	2.8	0.8		206.4	28.3
1630	0.8	4.5	88.7	1.4	4.7	87.6	1.8	4.6	84.3	4.3	3.0	0.8		282.5	39.8
1700	0.5	4.5	90.9	0.8	4.6	90.4	1.3	4.4	82.6	4.0	2.9	0.8		205.8	28.6
1710	200cm			120cm			32cm								
1730	0.4	4.5	90.3	0.6	4.5	89.7	1.2	4.3	81.2	3.9	2.9	0.8		225.7	31.2
1800	0.3	4.2	85.1	0.5	4.2	84.7	1.2	4.0	76.8	4.0	2.9	0.8		235.1	32.9
1830	0.0	4.3	88.8	0.2	4.3	88.1	0.8	4.1	80.1	3.7	2.9	0.9		211.8	29.3
1900	-0.1	4.2	87.7	0.1	4.2	86.8	0.5	4.0	79.5	3.3	2.8	0.9		162.8	22.1
1930	-0.3	4.3	90.0	-0.1	4.3	89.2	0.3	4.0	81.8	2.9	2.7	0.9		124.6	16.6
2000	-0.3	4.5	94.8	-0.2	4.5	95.4	0.1	4.2	87.3	2.4	2.6	0.9		108.4	13.9
2030	0.0	4.5	92.5	0.0	4.5	93.0	0.2	4.2	85.6	2.2	2.5	0.9		92.0	11.2
2100	0.0	4.5	92.6	0.1	4.5	92.5	0.2	4.2	85.0	1.9	2.3	0.8		73.5	8.9
2130	0.0	4.5	92.3	0.1	4.5	91.5	0.3	4.1	84.2	1.7	2.2	0.8		69.3	8.4
2200	0.0	4.5	92.8	0.1	4.5	91.9	0.2	4.2	84.8	1.5	2.1	0.7		71.9	8.7
2230	0.0	4.4	92.1	0.1	4.5	92.3	0.2	4.2	85.0	1.4	2.0	0.7		57.8	7.0
2300	0.0	4.5	92.5	0.0	4.5	92.8	0.1	4.2	85.8	1.2	1.9	0.6		36.4	3.7
2330	0.0	4.5	92.4	0.1	4.5	92.9	0.1	4.2	86.0	1.0	1.8	0.5		24.7	1.7
Max	2.4	4.9	100.0	2.8	5.1	100.0	3.1	5.0	98.1	4.3	3.9	2.0		282.5	39.8
Min	-1.3	4.2	79.1	-1.2	4.2	79.6	-1.4	4.0	76.8	0.3	1.8	0.3		24.7	1.7
Ave	0.6	4.6	90.7	0.9	4.7	90.6	1.0	4.5	87.4	2.5	2.5	0.8		113.7	15.5
Sum														9.8	1.3

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
18.6	-4.7		158.7	0.18	1.57	1.33	0.94	102	0.22	0.08	-0.074	2.91	363.4	360.3	
2.4	-9.6		142.6	0.19	1.64	1.26	0.90	177	0.91	0.11	-0.033	3.08	362.6		
-7.7	-11.7		124.6	0.19	1.31	0.94	0.64	109		0.10	-0.024	2.73	364.4	360.3	
-17.6	-13.2		111.9	0.20	1.30	0.95	0.56	284		0.10	0.017	1.91	363.8		
-30.7	-15.6		112.4	0.21	0.90	0.53	0.46	311		0.07		0.71	363.6	360.3	
-31.3	-14.9		82.0	0.15	0.94	0.48	0.42	101		0.09		0.68	366.5		
12.1	-10.4		68.9	0.12	0.73	0.42	0.42	24		0.07		0.01	366.7	360.3	
13.6	-5.5		79.9	0.13	0.66	0.46	0.43	69	0.93	0.04		0.24	365.9		
13.5	-2.8		89.0	0.13	1.03	0.66	0.43	48		0.09	0.031	1.64	364.5	360.5	V
19.7	0.3		69.3	0.10	0.68	0.55	0.45	158	0.21	0.03	0.321	0.34	364.7		
39.7	4.8		117.3	0.13	1.26	1.10	0.51	308		0.10	-0.019	1.86	364.6		I
61.2	11.0		200.1	0.15	1.63	1.42	0.85	322	0.75	0.10	-0.059	2.33	364.2		
53.6	11.7		176.0	0.14	2.29	1.84	1.21	317	0.57	0.14	-0.023	2.84	363.2		I
63.9	12.9		207.9	0.13	1.96	1.70	1.19	264	0.19	0.10	-0.061	3.39	363.8		
59.4	13.9		196.8	0.13	2.02	1.80	1.11	322	0.48	0.12	-0.052	3.33	364.5		I
66.0	14.6		215.8	0.13	1.83	1.61	0.96	332	0.67	0.12	-0.062	3.48	362.5		
68.7	14.8		211.3	0.13	2.30	1.87	1.30	299	0.35	0.13	-0.050	3.60	362.3		I
78.1	13.8		236.3	0.13	2.65	1.98	1.48	113	1.15	0.18	-0.028	5.16	361.9		
84.4	15.1		259.9	0.13	2.45	1.79	1.46	146	0.79	0.15	-0.048	4.66	361.9		I
90.7	16.2		281.6	0.13	2.35	1.88	1.31	68	0.47	0.14	-0.040	3.85	362.5		
104.4	17.7		326.0	0.13	2.87	2.40	1.70	23	0.24	0.15	-0.038	4.15	363.2		I
134.8	22.4		417.9	0.14	3.10	2.68	1.85	37	0.22	0.17	-0.040	4.55	362.9		
127.4	23.6		401.7	0.13	2.82	2.38	1.67	41	0.24	0.15	-0.045	4.30	363.2		I
121.4	22.1		385.2	0.13	3.36	2.81	2.02	41	0.20	0.18	-0.031	4.50	363.0		
117.3	20.2		371.3	0.13	2.95	2.56	1.84	34	0.13	0.15	-0.044	4.20	362.8		I
119.5	19.9		382.9	0.13	3.39	2.85	2.04	46	0.19	0.18	-0.036	4.54	362.8		
116.8	18.8		365.6	0.13	3.38	2.79	1.93	32	0.34	0.19	-0.026	4.71	362.6		I
132.3	19.5		409.0	0.13	2.96	2.39	1.66	29	0.49	0.17	-0.050	4.83	362.6		
115.6	18.8		349.6	0.13	3.62	2.93	1.96	30	0.49	0.21	-0.023	4.82	362.2		I
119.6	15.3		350.0	0.13	4.08	3.22	2.24	36	0.88	0.26	-0.020	6.34	362.2		
141.6	16.8		413.8	0.13	4.03	3.24	2.31	43	0.41	0.23	-0.023	5.51	361.3		I
147.1	17.6		432.9	0.14	4.21	3.36	2.50	44	0.45	0.24	-0.028	6.36	362.3		
168.4	19.8		500.1	0.14	4.35	3.50	2.43	42	0.40	0.25	-0.022	5.64	361.9		I
226.2	28.2		670.1	0.14	4.37	3.73	2.60	34	0.22	0.24	-0.027	5.86	362.4		
162.8	21.6		493.8	0.14	4.60	3.82	2.63	39	0.33	0.26	-0.020	6.06	365.1		I
181.1	19.8		538.0	0.14	4.73	3.62	2.61	49	0.95	0.31	-0.022	8.02	370.2		
185.5	21.2		557.4	0.14	4.99	3.96	2.94	54	0.49	0.29	-0.025	7.54	368.9		I
167.9	17.8		499.5	0.14	5.42	4.05	2.91	51	1.22	0.37	-0.013	8.91	368.6		
128.6	12.5		387.6	0.14	5.52	4.26	3.03	59	0.99	0.36	-0.010	8.68	368.6		I
98.5	9.1		294.8	0.13	4.89	3.81	2.82	69	0.67	0.30	-0.017	6.91	368.3		
90.2	6.1		257.8	0.13	5.28	3.95	2.99	59	0.97	0.34	-0.009	7.65	368.2		I
76.8	4.9		219.2	0.12	5.35	4.11	2.97	57	0.84	0.34	-0.007	7.07	368.5		
61.1	3.2		174.8	0.12	5.35	4.11	3.08	56	0.71	0.33	-0.006	7.11	367.9		I
55.7	2.2		164.5	0.12	5.28	4.10	2.95	73	0.84	0.33	-0.007	7.15	368.2		
56.8	2.6		169.1	0.12	5.08	3.85	2.87	71	0.75	0.31	-0.008	6.55	367.8		I
46.4	2.6		133.6	0.12	4.78	3.65	2.66	60	0.92	0.31	-0.006	6.27	367.3		
29.8	0.8		83.4	0.10	4.01	3.05	2.12	61	1.20	0.27	-0.003	5.86	367.3		I
19.7	-0.6		57.6	0.07	3.62	2.72	1.94	67	1.15	0.24	-0.002	4.98	366.7		
226.2	28.2		670.1	0.21	5.52	4.26	3.08	332	1.22	0.37	0.321	8.91	370.2	360.5	
-31.3	-15.6		57.6	0.07	0.66	0.42	0.42	23	0.13	0.03	-0.074	0.01	361.3	360.3	
81.5	9.3		269.8	0.14	3.12	2.47	1.76	109	0.60	0.19	-0.018	4.54	364.7	360.4	
7.0	0.8														

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Time h	Ta1 C 200cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	0.0	4.5	92.8	0.0	4.5	93.4	0.0	4.2	86.5	0.8	1.7	0.4		21.9	1.7
030	-0.3	4.5	95.4	-0.3	4.6	96.0	-0.3	4.2	88.3	0.7	1.6	0.4		18.5	1.3
100	-0.4	4.6	97.6	-0.3	4.6	97.3	-0.3	4.2	89.7	0.5	1.4	0.3		13.3	0.5
130	-0.4	4.6	97.8	-0.4	4.6	97.6	-0.4	4.2	90.0	0.4	1.3	0.3		9.3	0.0
200	-0.3	4.5	95.6	-0.3	4.5	95.5	-0.3	4.2	88.7	0.3	1.2	0.2		10.0	0.0
230	-0.4	4.5	96.1	-0.3	4.5	95.5	-0.4	4.2	88.9	0.2	1.1	0.1		9.7	0.0
300	-0.5	4.5	97.2	-0.5	4.6	97.6	-0.5	4.2	90.2	0.1	1.0	0.1		9.1	0.0
330	-0.6	4.5	97.2	-0.5	4.6	97.8	-0.6	4.2	90.4	0.0	0.9	0.0		12.0	0.1
400	-0.6	4.5	97.2	-0.5	4.5	97.8	-0.6	4.2	90.6	0.0	0.9	0.0		15.0	0.4
430	-0.6	4.5	97.8	-0.6	4.6	98.8	-0.6	4.2	91.0	0.0	0.8	-0.1		13.8	0.5
500	-0.6	4.6	98.8	-0.6	4.6	99.6	-0.6	4.3	91.8	-0.1	0.8	-0.1		14.8	0.5
530	-0.6	4.6	99.7	-0.6	4.6	99.8	-0.6	4.3	92.0	-0.1	0.7	-0.2		17.8	1.2
600	-0.6	4.6	99.0	-0.6	4.6	98.9	-0.6	4.2	91.9	-0.2	0.6	-0.2		17.9	1.1
630	-0.6	4.6	99.4	-0.5	4.6	99.2	-0.6	4.2	91.5	-0.2	0.6	-0.3		22.3	1.2
700	-0.7	4.6	100.0	-0.6	4.6	100.0	-0.5	4.3	92.1	-0.1	0.6	-0.3		37.2	3.4
730	-0.6	4.6	98.3	-0.4	4.6	97.9	-0.4	4.3	91.0	0.1	0.5	-0.3		56.2	5.8
800	-0.5	4.5	96.7	-0.3	4.6	96.6	-0.2	4.3	90.0	0.2	0.6	-0.3		69.3	7.7
830	-0.4	4.6	98.1	-0.3	4.6	98.1	-0.1	4.3	90.6	0.5	0.7	-0.4		98.9	11.6
900	-0.3	4.6	96.8	-0.1	4.6	97.0	0.1	4.4	90.1	0.9	0.8	-0.4		135.2	16.4
930	-0.2	4.5	95.5	0.0	4.6	95.9	0.4	4.4	88.7	1.5	0.9	-0.4		167.6	21.7
1000	0.0	4.5	94.1	0.2	4.6	94.3	0.8	4.4	87.2	2.0	1.1	-0.4		225.4	30.7
1030	0.3	4.5	91.4	0.6	4.6	91.0	1.3	4.5	84.4	2.7	1.5	-0.3		319.4	46.9
1100	0.4	4.5	90.4	0.7	4.5	89.8	1.5	4.4	82.1	3.2	1.8	-0.3		348.2	52.9
1130	0.7	4.3	85.9	1.1	4.4	84.2	2.4	4.3	76.5	3.9	2.5	-0.2		543.6	87.6
1200	0.9	4.4	86.8	1.3	4.5	85.3	2.5	4.4	76.5	4.4	2.8	-0.1		421.5	64.8
1230	0.6	4.6	90.7	0.9	4.6	90.1	1.8	4.4	80.6	4.4	2.9	0.1		332.7	48.3
1300	0.8	4.5	88.2	1.2	4.6	87.8	2.1	4.4	78.9	4.6	3.1	0.3		346.7	49.8
1330	0.8	4.5	88.8	1.1	4.6	88.8	2.1	4.4	79.3	4.9	3.3	0.4		358.8	52.3
1400	1.0	4.6	89.7	1.5	4.7	88.4	2.7	4.5	78.1	5.6	3.5	0.6		462.7	68.4
1430	1.4	4.6	86.9	1.8	4.7	86.5	3.2	4.5	75.7	6.3	3.8	0.7		497.5	73.7
1500	1.6	4.6	85.1	2.0	4.7	84.4	3.4	4.5	74.3	6.7	4.1	0.8		495.4	73.2
1530	1.6	4.6	84.6	2.0	4.7	84.4	3.2	4.5	74.3	6.6	4.2	1.0		470.6	70.0
1600	1.8	4.6	84.1	2.3	4.7	83.2	3.8	4.6	73.2	7.2	4.4	1.2		563.6	85.1
1630	1.8	4.6	84.3	2.2	4.7	84.3	3.6	4.5	73.3	7.6	4.6	1.3		527.2	80.4
1700	1.6	4.6	85.6	2.0	4.7	85.2	3.2	4.5	74.9	7.1	4.7	1.5		457.1	69.1
1730	1.7	4.6	85.1	2.2	4.7	84.6	3.3	4.5	73.6	7.2	4.7	1.7		495.0	77.3
1800	1.9	4.6	84.1	2.4	4.8	83.9	3.7	4.5	72.9	7.7	4.8	1.8		494.0	78.1
1830	1.7	4.5	83.6	2.1	4.6	83.3	3.1	4.4	74.0	7.1	4.8	1.9		400.9	63.4
1900	1.6	4.6	85.0	1.9	4.6	84.2	3.0	4.4	74.9	6.8	4.8	2.0		382.6	61.9
1930	2.0	4.5	81.5	2.3	4.6	81.0	3.4	4.4	72.0	6.8	4.8	2.0		424.0	73.8
2000	1.8	4.5	82.3	2.1	4.5	81.3	3.0	4.3	72.6	6.6	4.8	2.0		363.5	62.2
2030	1.3	4.4	84.1	1.5	4.5	83.3	2.1	4.2	75.4	5.6	4.7	2.1		242.0	40.7
2100	1.1	4.5	87.3	1.3	4.5	86.0	1.8	4.3	77.7	4.7	4.5	2.0		220.6	40.0
2130	0.9	4.6	89.6	1.1	4.6	88.6	1.6	4.3	79.3	4.4	4.4	2.0		215.9	40.8
2200	0.5	4.5	90.6	0.7	4.6	89.9	1.2	4.2	80.5	3.9	4.1	2.0		190.7	37.0
2230	-0.3	4.5	94.0	-0.2	4.5	94.1	0.0	4.1	85.8	2.9	3.8	1.9		110.9	20.5
2300	-0.8	4.5	99.2	-0.7	4.4	96.7	-0.8	4.1	89.1	1.8	3.5	1.8		66.2	8.7
2330	-0.7	4.5	98.4	-0.7	4.5	96.9	-0.8	4.1	89.6	1.3	3.1	1.6		66.8	9.2
Max	2.0	4.6	100.0	2.4	4.8	100.0	3.8	4.6	92.1	7.7	4.8	2.1		563.6	87.6
Min	-0.8	4.3	81.5	-0.7	4.4	81.0	-0.8	4.1	72.0	-0.2	0.5	-0.4		9.1	0.0
Ave	0.4	4.5	91.8	0.6	4.6	91.5	1.1	4.3	83.1	3.1	2.6	0.6		225.3	34.2
Sum														19.5	3.0

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 120cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
18.1	-1.0		49.1	0.08	3.62	2.71	2.05	59	0.94	0.23	-0.001	4.74	366.9	
16.4	-1.5		40.1	0.07	4.11	2.93	2.05	51	1.91	0.30	-0.001	6.31	367.1	
12.8	-2.0		28.4		3.65	2.86	2.03	57	0.86	0.23	-0.002	4.82	367.1	
9.7	-2.5		19.5		3.72	2.89	2.03	53	1.05	0.25	-0.002	5.21	367.4	
9.4	-2.4		21.3		3.74	2.72	1.95	63	1.50	0.26	0.000	4.95	367.5	
8.7	-2.3		20.4		3.73	2.92	2.15	63	0.72	0.23	0.000	4.30	367.0	
9.2	-2.2		18.6		3.56	2.73	2.00	63	0.85	0.23	0.000	4.89	366.8	
11.0	-1.9		25.9		3.60	2.79	2.05	68	0.77	0.22	0.000	4.35	366.3	
13.3	-1.4		32.8		3.68	2.88	2.11	67	0.69	0.23		4.77	365.8	
14.2	-1.1		29.9		3.73	2.88	2.13	59	0.66	0.23	0.001	4.30	365.4	
15.8	-0.7		31.8		3.67	2.69	2.09	55	0.95	0.24		4.88	364.5	
18.2	-0.4		38.9	0.07	4.01	3.11	2.29	59	0.82	0.25		5.31	363.6	
18.1	-0.4		39.4	0.06	4.16	3.21	2.35	63	0.83	0.26	0.000	5.24	364.3	
22.3	-0.3		49.8	0.05	4.19	3.02	2.25	75	1.20	0.28	-0.002	5.44	363.8	
34.0	2.0		82.9	0.09	3.83	3.08	2.15	80	0.50	0.23	-0.009	4.62	364.2	
41.7	3.8		127.3	0.10	4.06	3.21	2.28	78	0.62	0.25	-0.007	5.27	364.7	
54.6	5.7		156.1	0.11	4.16	3.20	2.26	79	1.28	0.29	-0.007	6.64	364.7	
79.3	9.1		220.9	0.12	4.60	3.60	2.63	73	0.64	0.28	-0.011	6.08	363.9	
106.7	13.2		301.1	0.12	4.60	3.49	2.61	76	0.79	0.29	-0.013	6.69	362.5	
135.3	17.0		369.6	0.13	4.67	3.71	2.57	82	0.53	0.28	-0.014	6.06	363.8	
181.6	21.8		497.7	0.14	4.87	3.78	2.66	83	0.42	0.28	-0.020	6.11	362.5	360.7
249.8	30.1		704.0	0.15	5.74	4.60	3.17	86	0.43	0.33	-0.017	7.09	363.0	
268.1	35.8		785.5	0.15	5.53	4.29	3.23	77	0.55	0.33	-0.029	8.61	363.9	360.8
419.6	49.0		1234.0	0.16	5.41	4.59	3.12	91	0.35	0.31	-0.027	8.12	364.0	
316.8	49.6		970.9	0.15	5.51	4.46	3.09	84	0.42	0.32	-0.028	7.81	363.5	360.8
263.8	33.1		774.9	0.15	5.69	4.69	3.33	78	0.31	0.31	-0.027	7.30	363.1	
271.8	33.8		810.0	0.14	5.38	4.31	3.21	81	0.53	0.32	-0.028	9.08	362.9	360.7
282.4	35.4		832.4	0.15	5.22	4.15	3.07	79	0.70	0.33	-0.029	9.20	363.2	
363.8	44.4		1070.5	0.15	5.55	4.44	3.08	79	0.37	0.31	-0.031	7.68	363.3	360.5
388.3	51.1		1140.1	0.15	5.31	4.39	3.16	73	0.24	0.28	-0.038	7.54	364.5	
383.4	51.0		1146.7	0.15	5.55	4.48	3.44	73	0.35	0.32	-0.034	9.48	364.6	360.5
360.0	45.5		1089.7	0.15	5.94	4.56	3.30	70	0.87	0.38	-0.025	10.39	364.5	
427.0	53.4		1298.1	0.15	5.17	4.18	3.14	80	0.19	0.27	-0.053	7.93	364.4	360.5
401.7	52.4		1190.2	0.15	5.97	4.68	3.52	75	0.60	0.36	-0.030	10.52	364.4	
332.1	41.3		1038.5	0.15	5.64	4.42	3.42	73	0.52	0.34	-0.032	9.57	364.1	360.6
346.9	39.5		1122.1	0.16	5.31	4.32	3.40	76	0.14	0.27	-0.039	7.84	364.3	
347.9	43.2		1106.5	0.16	5.55	4.38	3.28	74	0.45	0.32	-0.045	9.61	363.7	360.6
276.4	31.9		919.1	0.16	5.44	4.23	3.12	71	0.59	0.33	-0.031	9.07	363.3	
254.6	28.7		885.6	0.16	5.15	4.08	2.90	76	0.37	0.29	-0.029	7.13	362.9	360.6
280.3	31.5		984.8	0.17	5.18	4.23	3.00	67	0.32	0.29	-0.030	7.25	363.5	
237.4	26.1		834.4	0.17	4.99	4.17	3.09	67	0.10	0.24	-0.044	6.09	363.7	360.6
135.1	14.1		564.7	0.17	4.84	3.81	2.85	62	0.58	0.29	-0.023	7.44	365.0	
119.3	5.8		522.6	0.18	4.66	3.70	2.74	63	0.50	0.28	-0.021	7.18	364.6	360.6
115.7	5.1		516.6	0.19	4.71	3.60	2.58	57	0.76	0.30	-0.018	7.30	364.3	
100.1	3.1		433.8	0.19	4.86	3.79	2.81	51	0.63	0.30	-0.017	7.50	364.1	360.6
21.5	-5.3		268.9	0.19	4.76	3.68	2.55	53	1.25	0.33	-0.005	7.27	363.3	
-17.7	-12.9		178.4	0.13	3.72	2.84	2.10	64	0.74	0.23	0.002	4.69	363.2	360.6
-1.6	-12.4		166.6	0.14	3.68	2.74	2.06	62	0.92	0.24	0.002	4.91	362.2	
427.0	53.4		1298.1	0.19	5.97	4.69	3.52	91	1.91	0.38	0.002	10.52	367.5	360.8
-17.7	-12.9		18.6	0.05	3.56	2.69	1.95	51	0.10	0.22	-0.053	4.30	362.2	360.5
162.0	17.8		516.5	0.14	4.68	3.67	2.68	70	0.67	0.28	-0.018	6.76	364.4	360.6
14.0	1.5													

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Time h	Ta1 C 200cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-0.6	4.5	96.1	-0.6	4.5	96.9	-0.6	4.1	89.5	1.2	2.9	1.5		63.3	9.2
030	-1.0	4.7	100.0	-1.0	4.4	98.2	-1.2	4.0	91.2	0.7	2.6	1.3		43.1	5.6
100	-1.4	4.5	100.0	-1.4	4.4	99.8	-1.5	4.3	98.7	0.3	2.4	1.1		36.5	4.7
130	-1.6	4.3	98.9	-1.6	4.3	98.7	-1.8	4.3	100.0	-0.1	2.1	1.0		39.2	6.2
200	-1.8	4.2	99.6	-1.9	4.9	100.0	-2.0	3.9	92.8	-0.3	1.8	0.8		69.5	17.1
230	-2.0	4.2	99.4	-2.1	4.2	100.0	-2.2	3.9	93.2	-0.4	1.6	0.6		51.2	10.3
300	-2.1	4.2	100.0	-2.1	4.2	100.0	-2.2	3.9	93.3	-0.5	1.3	0.6		40.6	6.4
330	-1.9	4.2	98.4	-1.9	4.2	99.7	-2.0	3.9	92.3	-0.5	1.2	0.4		72.5	15.8
400	-1.9	4.2	98.5	-1.9	4.2	99.8	-2.0	3.9	92.4	-0.5	1.1	0.2		56.3	10.6
430	-1.5	4.3	97.9	-1.5	4.3	98.9	-1.5	4.0	91.7	-0.5	1.0	0.1		41.6	5.9
500	-1.3	4.3	98.0	-1.3	4.4	99.7	-1.2	4.1	91.5	-0.5	0.9	0.1		42.9	6.2
530	-1.1	4.4	98.2	-1.0	4.5	99.6	-0.9	4.2	91.9	-0.4	0.8	0.0		58.6	8.2
600	-1.0	4.4	98.0	-0.9	4.5	98.0	-0.8	4.2	90.8	-0.1	0.9	-0.1		62.2	7.5
630	-1.1	4.3	96.3	-1.0	4.3	96.4	-0.8	4.1	89.9	0.2	0.8	-0.2		71.8	8.4
700	-1.1	4.1	91.6	-1.0	4.1	92.4	-0.8	4.0	86.9	0.5	0.9	-0.2		89.4	11.3
730	-1.1	4.1	92.5	-1.0	4.2	93.0	-0.6	4.0	86.0	1.0	1.0	-0.3		93.5	11.9
800	-0.9	4.2	92.0	-0.8	4.2	91.9	-0.3	3.9	82.6	1.6	1.1	-0.3		121.6	17.0
830	-0.6	4.0	86.5	-0.4	4.1	87.4	0.1	3.7	75.4	2.2	1.3	-0.3		157.6	21.9
900	-0.7	4.0	86.1	-0.5	4.1	87.7	0.0	3.9	81.0	2.1	1.4	-0.2		215.9	32.8
930	-0.2	4.0	82.8	0.1	3.9	80.7	1.0	4.2	80.9	3.1	1.8	-0.2		414.8	66.9
1000	-0.4	4.3	91.2	-0.2	4.2	87.9	0.8	4.2	82.0	3.9	2.2	-0.2		314.1	50.1
1030	0.1	3.9	80.6	0.5	4.0	80.8	1.7	4.2	77.4	3.8	2.6	-0.1		477.3	76.7
1100	0.4	4.0	80.2	0.7	4.3	85.0	2.0	4.2	76.2	4.0	3.0	0.0		486.2	75.1
1130	0.2	4.4	90.1	0.6	4.4	87.9	2.1	4.3	77.0	4.9	3.3	0.1		481.2	72.6
1200	0.3	4.3	87.7	0.7	4.4	86.8	2.1	4.2	76.1	5.7	3.4	0.3		438.0	63.9
1230	0.1	4.3	88.9	0.5	4.4	88.7	1.9	4.3	77.6	5.9	3.6	0.5		438.7	63.5
1300	0.7	4.4	86.8	1.1	4.5	86.7	2.8	4.4	75.4	5.8	3.8	0.7		563.7	81.6
1330	0.9	4.5	87.2	1.4	4.6	85.9	2.7	4.3	74.4	6.2	3.9	1.0		459.8	67.2
1400	1.6	4.5	83.5	2.2	4.6	82.4	3.8	4.4	70.9	7.3	4.3	1.3		624.4	94.0
1430	1.5	4.6	85.8	1.8	4.6	84.7	2.5	4.3	75.4	6.4	4.1	1.5		265.7	39.1
1500	2.2	4.4	78.6	2.5	4.7	81.2	3.9	4.4	70.7	6.7	4.2	1.5		608.0	89.8
1530	1.4	4.5	85.1	1.9	4.6	83.0	3.0	4.4	74.6	6.8	4.3	1.7		370.0	55.0
1600	1.7	4.4	81.9	2.3	4.6	80.9	3.6	4.4	71.3	7.3	4.5	1.8		493.6	71.7
1630	1.2	4.4	83.7	1.6	4.5	82.7	2.5	4.2	73.8	6.3	4.4	1.9		281.6	40.3
1700	1.0	4.5	86.7	1.4	4.5	85.6	2.1	4.3	76.8	5.4	4.2	2.0		269.3	38.4
1730	0.5	4.6	92.2	0.7	4.7	92.7	1.2	4.5	85.4	4.5	4.0	2.0		193.4	28.2
1800	0.3	4.7	95.6	0.6	4.8	96.1	1.1	4.6	88.9	4.1	3.8	2.0		190.6	27.3
1830	0.3	4.7	95.7	0.5	4.8	96.3	0.7	4.6	89.9	3.7	3.6	1.9		126.1	16.5
1900	0.2	4.7	96.4	0.5	4.8	96.0	0.8	4.6	89.4	3.3	3.4	1.9		129.8	15.8
1930	0.2	4.7	96.7	0.4	4.8	96.7	0.6	4.5	89.9	3.0	3.2	1.8		116.3	14.4
2000	0.3	4.7	95.4	0.5	4.8	96.0	0.7	4.5	89.2	3.0	3.1	1.7		114.9	13.5
2030	0.2	4.7	95.1	0.4	4.7	95.6	0.5	4.4	88.7	2.6	2.9	1.6		89.9	10.9
2100	0.2	4.7	95.9	0.5	4.7	94.8	0.6	4.5	88.4	2.5	2.8	1.6		104.0	12.8
2130	0.3	4.7	95.4	0.5	4.7	94.4	0.8	4.5	88.2	2.9	2.8	1.5		129.6	18.8
2200	0.0	4.7	98.2	0.2	4.8	97.1	0.4	4.5	89.8	2.5	2.6	1.4		68.4	9.6
2230	0.0	4.7	96.9	0.2	4.7	96.4	0.3	4.4	89.3	2.1	2.5	1.3		66.7	9.0
2300	0.0	4.7	96.2	0.2	4.7	95.8	0.3	4.4	88.9	2.0	2.4	1.2		67.4	9.1
2330	-0.1	4.6	95.3	0.0	4.6	95.9	0.1	4.3	88.6	1.8	2.2	1.1		53.0	7.1
Max	2.2	4.7	100.0	2.5	4.9	100.0	3.9	4.6	100.0	7.3	4.5	2.0		624.4	94.0
Min	-2.1	3.9	78.6	-2.1	3.9	80.7	-2.2	3.7	70.7	-0.5	0.8	-0.3		36.5	4.7
Ave	-0.2	4.4	92.4	0.0	4.5	92.3	0.5	4.2	84.9	2.8	2.6	0.8		205.5	30.3
Sum														17.8	2.6

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 120cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
5.5	-8.2		147.5	0.15	4.00	3.11	2.12	53	0.70	0.25		4.79	362.9	360.6	
-28.7	-12.2		111.5	0.13	3.56	2.69	1.87	57	1.32	0.24	0.008	4.82	361.4		
-26.1	-13.5		92.0	0.13	2.86	2.16	1.47	59	1.01	0.19	0.009	3.55	361.9	360.6	
-44.7	-12.1		93.2	0.16	2.65	2.04	1.36	64	0.76	0.17	0.016	3.09	362.4		
-43.5	-10.2		117.3	0.25	2.22	1.57	1.10	54	1.85	0.16	0.019	3.04	362.1	360.6	
-39.3	-9.3		99.4	0.20	2.15	1.48	0.88	45		0.18	0.014	3.72	362.3		
-30.2	-8.3		91.6	0.16	2.63	2.07	1.41	45	0.55	0.16	0.005	2.88	361.4	360.5	
-26.6	-7.6		126.9	0.22	2.55	1.88	1.34	57	1.29	0.17	0.011	3.32	361.4		
-3.8	-6.9		111.8	0.19	1.91	1.38	0.89	55		0.15	0.008	2.97	363.1	360.6	
24.0	-6.1		99.3	0.14	1.60	1.19	0.67	51	1.82	0.12	-0.006	2.40	364.4		
38.8	-5.4		102.8	0.15	1.99	1.50	0.98	38	1.05	0.13	-0.013	2.90	363.9	360.6	
49.9	-4.6		135.5	0.14	2.03	1.59	0.96	48	1.12	0.14	-0.011	3.01	362.8		
52.5	-3.1		151.0	0.12	2.26	1.79	1.25	71	0.59	0.14	-0.020	3.31	362.2	360.7	
57.9	-0.4		169.8	0.12	2.80	2.18	1.47	87	0.64	0.17	-0.017	3.93	361.9		
72.4	4.7		212.0	0.13	2.14	1.68	1.11	68	0.77	0.14	-0.026	3.35	361.4	360.7	
79.2	12.4		222.8	0.13	1.51	1.24	0.83	101	0.38	0.09	-0.106	3.49	361.0		
100.5	17.9		289.7	0.14	1.30	1.09	0.76	78	0.22	0.07	-0.188	4.01	362.2		C
126.8	23.9		374.7	0.14	1.70	1.23	0.93	70	0.64	0.10	-0.109	4.21	361.3		
141.6	23.4		520.7	0.15	1.95	1.49	1.16	52	0.41	0.12	-0.077	4.30	360.3		C
317.5	44.5		953.4	0.16	2.27	1.85	1.23	83	0.44	0.14	-0.103	5.53	361.8		
216.6	41.6		724.0	0.16	2.20	1.75	0.86	314		0.18	-0.068	5.71	361.8		C
335.2	47.3		1103.4	0.16	2.19	1.84	1.22	264	0.36	0.13	-0.147	6.22	361.2		
325.5	52.2		1123.3	0.15	2.54	2.07	1.20	290	1.06	0.18	-0.085	6.46	361.7		C
331.7	53.6		1113.3	0.15	3.05	2.58	1.67	297	0.40	0.18	-0.105	7.04	361.7		
311.8	45.5		1044.0	0.15	3.46	2.74	1.93	298	0.34	0.19	-0.087	6.83	361.6		C
311.1	42.8		1037.4	0.15	4.44	3.45	2.32	293	0.77	0.28	-0.046	7.70	361.6		
409.1	50.2		1324.2	0.15	4.71	3.86	2.37	297	0.80	0.30	-0.037	8.20	360.3		C
322.6	44.5		1086.4	0.15	4.56	3.64	2.50	295	0.47	0.27	-0.038	7.61			
461.1	60.8		1470.8	0.15	4.57	3.62	2.39	294	0.56	0.28	-0.046	8.02			C
196.0	28.6		619.0	0.15	4.95	4.10	2.33	322	1.07	0.34	-0.014	7.69			
459.8	46.4		1427.5	0.15	4.38	3.67	2.08	330	1.10	0.31	-0.029	7.83		360.7	
283.4	35.2		889.5	0.15	4.53	3.70	2.06	327	1.38	0.33	-0.021	8.47	364.6		
382.3	41.2		1182.9	0.15	4.56	3.66	2.08	333	1.29	0.33	-0.026	8.53	361.9	360.6	
218.6	22.8		659.2	0.14	4.85	3.78	2.22	333	1.23	0.34	-0.018	7.93	360.6		
219.1	15.9		619.1	0.14	5.14	4.15	2.37	323	1.22	0.37	-0.014	8.21	360.3	360.5	
161.4	9.2		437.5	0.15	4.96	3.99	2.19	313	1.43	0.36	-0.009	7.62	361.5		
169.0	9.0		411.4	0.14	4.85	3.71	2.20	342	1.27	0.34	-0.011	7.12	360.8	360.4	
107.1	5.8		308.1	0.13	4.35	3.63	1.95	313	1.44	0.32	-0.006	6.98	363.7		
107.1	4.6		315.7	0.12	4.00	3.31	1.93	337	0.97	0.28	-0.011	6.18	362.9	360.3	
97.0	3.3		278.3	0.12	4.23	3.48	1.95	328	1.24	0.30	-0.007	6.55	361.4		
95.4	5.5		268.4	0.12	4.20	3.30	1.85	344	1.45	0.31	-0.008	6.45	361.7	360.2	
75.8	2.4		210.4	0.12	4.23	3.19	1.86	192	1.50	0.30	-0.006	6.20	363.0		
87.7	3.9		236.8	0.12	4.26	3.07	1.98	51	1.25	0.29	-0.009	5.80	362.3	360.2	
107.7	8.5		261.5	0.15	3.97	2.91	1.86	80	1.27	0.28	-0.011	6.05	362.3		
55.2	3.9		154.2	0.14	3.73	2.69	1.73	140	1.35	0.26	-0.009	5.58	360.7	360.0	A
55.4	1.2		150.6	0.14	3.98	2.80	2.10	38	1.31	0.27	-0.011	6.11	361.4		
54.3	1.8		150.1	0.14	3.92	2.74	1.93	24	1.85	0.28	-0.009	6.12	361.7	359.9	A
40.0	0.3		119.7	0.13	3.65	2.59	1.85	13	1.56	0.25	-0.009	5.57	363.0		
461.1	60.8		1470.8	0.25	5.14	4.15	2.50	344	1.85	0.37	0.019	8.53	364.6	360.7	
-44.7	-13.5		91.6	0.12	1.30	1.09	0.67	13	0.22	0.07	-0.188	2.40	360.3	359.9	
142.1	14.7		478.1	0.15	3.34	2.61	1.64	174	1.01	0.23	-0.032	5.57	361.9	360.4	
12.3	1.3														

IBP site June 23

Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-0.2	4.5	95.6	-0.1	4.6	96.1	0.0	4.3	88.5	1.5	2.1	1.1		40.5	5.1
030	-0.3	4.5	95.9	-0.2	4.6	96.4	-0.2	4.3	89.2	1.2	2.0	1.0		31.3	3.6
100	-0.4	4.6	97.3	-0.3	4.6	97.0	-0.3	4.3	89.8	1.0	1.8	0.9		27.7	3.0
130	-0.4	4.6	97.3	-0.3	4.6	97.1	-0.3	4.3	89.8	0.8	1.7	0.8		20.5	1.9
200	-0.3	4.6	96.5	-0.3	4.6	97.4	-0.3	4.3	89.5	0.7	1.6	0.8		21.1	2.0
230	-0.5	4.6	98.4	-0.4	4.6	98.2	-0.4	4.3	90.8	0.6	1.5	0.7		19.6	2.1
300	-0.5	4.6	98.0	-0.4	4.6	98.0	-0.4	4.3	90.7	0.5	1.4	0.6		26.2	2.6
330	-0.5	4.6	98.5	-0.4	4.6	98.4	-0.3	4.2	90.0	0.5	1.3	0.5		25.7	2.5
400	-0.5	4.6	98.9	-0.4	4.6	98.4	-0.4	4.3	90.6	0.4	1.2	0.4		25.7	2.4
430	-0.5	4.6	98.2	-0.4	4.6	97.7	-0.4	4.2	90.3	0.3	1.1	0.4		27.9	2.9
500	-0.5	4.6	98.6	-0.4	4.6	97.9	-0.4	4.3	90.6	0.3	1.0	0.3		27.6	2.6
530	-0.6	4.6	98.7	-0.5	4.6	98.5	-0.4	4.3	91.1	0.3	1.0	0.3		31.1	3.4
600	-0.5	4.5	96.9	-0.4	4.5	96.6	-0.4	4.2	89.5	0.3	0.9	0.2		41.2	4.6
630	-0.5	4.5	96.3	-0.4	4.5	95.8	-0.3	4.2	89.1	0.4	0.9	0.1		53.1	6.2
700	-0.5	4.4	95.1	-0.3	4.5	94.8	-0.3	4.2	88.2	0.5	0.9	0.1		60.2	7.1
730	-0.5	4.4	94.0	-0.4	4.4	93.0	-0.3	4.1	86.5	0.5	0.9	0.1		71.4	9.3
800	-0.5	4.4	95.1	-0.3	4.3	92.2	-0.1	4.1	85.4	0.8	0.9	0.0		113.7	14.7
830	-0.6	4.4	95.3	-0.3	4.4	92.6	-0.1	4.1	85.4	1.1	1.0	0.0		128.7	17.0
900	-0.6	4.4	95.3	-0.4	4.4	93.0	-0.1	4.2	86.4	1.3	1.0	0.0		130.0	17.7
930	-0.7	4.5	97.2	-0.5	4.5	95.8	-0.3	4.1	87.4	1.2	1.1	0.0		101.6	13.6
1000	-0.7	4.4	95.1	-0.6	4.5	97.0	-0.4	4.1	87.6	1.1	1.1	0.0		93.5	12.2
1030	-0.8	4.4	96.0	-0.6	4.5	98.3	-0.4	4.2	89.0	1.0	1.1	0.0		96.3	12.4
1100	-0.6	4.4	95.3	-0.5	4.4	94.3	-0.2	4.3	90.2	1.0	1.1	0.0		112.6	14.5
1130	-0.4	4.3	91.2	-0.2	4.6	95.3	0.2	4.4	89.2	1.5	1.2	0.0		159.4	21.1
1200	0.0	4.3	89.5	0.2	4.6	94.4	0.7	4.4	86.9	2.2	1.3	0.0		212.1	29.5
1230	0.4	4.7	93.9	0.8	4.7	92.9	1.5	4.5	84.4	3.2	1.6	0.1		320.7	45.8
1300	0.6	4.7	94.0	1.1	4.8	93.1	2.0	4.6	83.3	4.1	2.0	0.1		383.9	55.9
1330	0.7	4.8	94.0	1.1	4.9	93.0	2.1	4.6	82.4	4.6	2.3	0.2		374.1	54.7
1400	0.9	4.8	93.5	1.5	4.9	91.6	2.6	4.6	79.9	5.2	2.6	0.3		438.1	66.4
1430	0.7	4.8	94.8	1.1	4.9	93.7	1.9	4.6	83.4	5.0	2.8	0.5		339.1	50.7
1500	1.5	4.8	88.7	2.0	4.8	87.4	3.3	4.6	75.7	5.9	3.1	0.6		582.7	88.1
1530	1.5	4.8	89.0	2.0	4.9	88.3	3.4	4.6	75.3	6.6	3.4	0.8		550.0	84.8
1600	1.6	4.7	87.9	2.0	4.8	87.1	3.4	4.5	73.6	6.8	3.5	1.0		576.2	89.0
1630	1.8	4.6	84.9	2.2	4.7	83.8	3.5	4.4	71.2	7.3	3.7	1.1		647.1	94.2
1700	1.3	4.7	87.9	1.8	4.8	87.3	3.1	4.5	75.0	7.5	4.0	1.4		472.5	71.5
1730	0.8	4.7	92.9	1.2	4.8	91.5	2.0	4.5	80.7	6.3	4.0	1.6		315.4	47.8
1800	0.5	4.6	92.7	0.8	4.7	91.2	1.4	4.3	81.0	5.2	3.9	1.7		226.1	33.7
1830	0.4	4.6	92.1	0.7	4.6	90.9	1.3	4.3	81.0	4.5	3.7	1.9		215.7	30.8
1900	0.4	4.6	92.4	0.7	4.6	91.4	1.3	4.3	81.3	4.2	3.6	1.9		219.6	31.6
1930	0.5	4.6	92.5	0.8	4.7	91.5	1.4	4.3	81.0	4.3	3.5	1.9		255.5	38.6
2000	1.1	4.7	89.7	1.4	4.7	88.7	2.4	4.4	77.0	5.2	3.5	1.8		394.5	69.6
2030	0.9	4.6	90.3	1.1	4.7	89.3	1.9	4.3	78.2	5.1	3.5	1.8		300.7	54.4
2100	0.7	4.6	91.3	1.0	4.6	89.8	1.6	4.3	79.1	4.7	3.5	1.8		276.2	52.7
2130	0.4	4.6	92.4	0.6	4.6	91.1	1.2	4.2	80.3	4.0	3.4	1.8		238.0	46.2
2200	0.3	4.6	94.1	0.5	4.7	93.1	1.0	4.3	82.8	3.8	3.3	1.8		213.9	38.3
2230	0.2	4.8	97.1	0.3	4.8	98.0	0.7	4.5	89.2	3.6	3.3	1.7		172.8	30.6
2300	-0.1	4.7	98.0	0.0	4.7	98.0	0.2	4.4	89.5	3.1	3.1	1.6		114.2	20.3
2330	-0.3	4.6	96.4	-0.2	4.6	96.4	0.1	4.3	88.6	2.5	3.0	1.6		118.2	25.9
Max	1.8	4.8	98.9	2.2	4.9	98.5	3.5	4.6	91.1	7.5	4.0	1.9		647.1	94.2
Min	-0.8	4.3	84.9	-0.6	4.3	83.8	-0.4	4.1	71.2	0.3	0.9	0.0		19.6	1.9
Ave	0.1	4.6	94.3	0.3	4.6	93.8	0.8	4.3	84.9	2.8	2.2	0.8		196.7	29.9
Sum														17.0	2.6

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
31.7	-0.8		89.7	0.13	3.22	2.37	1.75	60	0.51	0.19	-0.010	3.66	363.2	359.7 A
24.9	-2.2		69.7	0.12	3.47	2.61	1.80	58	0.69	0.22	-0.004	4.32	363.1	
20.2	-3.0		63.3	0.11	3.36	2.59	1.60	140	1.07	0.23	-0.004	4.70	363.4	359.5 A
17.3	-3.2		43.2	0.09	3.47	2.75	1.48	284	1.82	0.27	-0.002	5.60	361.8	
17.7	-2.5		44.5	0.10	3.53	2.68	1.60	177	1.26	0.25	-0.003	4.51	360.7	359.4 A
16.6	-2.4		41.0	0.11	3.47	2.79	1.77	87	0.67	0.22	-0.003	4.36	359.0	
20.4	-1.9		54.9	0.10	3.76	2.85	1.66	139	1.46	0.27	-0.002	5.20	359.5	359.2 A
20.7	-1.3		54.3	0.10	3.76	2.86	1.75	180	1.26	0.27	-0.003	5.48	359.3	
21.0	-1.1		55.1	0.09	3.70	2.75	1.75	61	1.21	0.26	-0.003	5.20	359.1	359.2 A
22.1	-0.9		60.3	0.10	3.69	2.59	1.79	58	1.15	0.25	-0.004	4.74	359.2	
24.3	-0.6		60.7	0.09	4.04	2.90	2.14	59	0.73	0.25	-0.004	4.86	359.1	359.4 A
26.9	-0.1		69.6	0.11	3.92	2.84	2.10	39	1.07	0.26	-0.005	5.53	359.6	
33.9	1.2		92.8	0.11	3.73	2.82	2.04	19	0.82	0.23	-0.010	4.56	358.8	359.7 A
39.9	2.7		122.0	0.12	3.72	2.72	1.98	19	1.26	0.24	-0.015	4.35	359.2	
46.0	4.2		138.6	0.12	3.68	2.60	1.84	13	1.70	0.26	-0.010	5.34	360.1	360.0 A
58.3	4.8		166.6	0.13	3.87	2.74	1.99	27	1.43	0.27	-0.009	5.71	361.1	
92.5	9.2		265.7	0.13	4.05	2.76	2.07	12	1.65	0.29	-0.015	6.39	360.7	360.1 A
103.1	11.8		300.7	0.13	3.93	2.75	2.02	10	1.53	0.27	-0.018	6.37	360.6	
102.0	12.6		306.7	0.14	4.01	2.91	2.20	61	0.91	0.26	-0.021	6.16	361.0	360.3
79.6	9.5		245.6	0.13	3.66	2.60	1.83	76	0.95	0.24	-0.014	4.96	361.1	
73.0	8.0		229.7	0.13	3.79	2.85	1.80	209	1.09	0.26	-0.009	5.53	361.3	360.3
76.8	7.1		241.1	0.13	3.65	2.66	1.70	83	1.36	0.26	-0.009	5.67	361.4	
91.8	8.8		282.5	0.13	3.40	2.70	1.44	254	1.78	0.26	-0.010	5.81	361.7	360.3
130.4	14.0		384.6	0.13	3.78	2.84	1.71	240	1.39	0.27	-0.013	6.12	360.3	
171.6	19.8		488.2	0.14	4.02	3.11	1.89	176	1.19	0.28	-0.014	6.62	358.7	360.1
253.9	30.4		752.7	0.14	4.25	3.22	2.37	15	0.37	0.24	-0.040	5.85	359.5	
298.5	41.4		898.2	0.15	4.52	3.48	2.56	18	0.54	0.27	-0.048	7.74	361.5	359.9 A
291.7	39.8		871.8	0.15	4.49	3.76	2.68	20	0.30	0.24	-0.075	6.73	360.9	
343.2	45.6		1006.6	0.15	4.84	3.85	2.80	20	0.38	0.27	-0.060	7.75	360.7	360.0 A
267.6	34.7		781.6	0.15	4.91	4.06	2.90	24	0.32	0.27	-0.061	6.58	361.0	
448.3	54.3		1330.8	0.15	4.81	3.88	3.06	25	0.19	0.24	-0.119	8.59	361.3	359.9 A
422.9	56.7		1261.5	0.15	5.07	3.84	2.95	31	0.53	0.30	-0.065	9.39	361.4	
431.4	52.8		1349.7	0.15	5.54	4.32	3.20	24	0.52	0.32	-0.063	9.36	361.4	359.9 A
439.4	55.5		1462.2	0.15	5.32	4.33	2.73	22	0.82	0.34	-0.032	7.76	359.9	
346.0	48.0		1053.6	0.15	4.61	3.49	2.58	19	0.96	0.30	-0.061	9.03	360.4	360.0
236.8	28.6		716.4	0.15	4.78	3.81	2.54	19	0.61	0.29	-0.039	6.53	361.0	
171.6	15.4		534.8	0.15	5.05	3.88	2.66	22	1.32	0.34	-0.022	8.19	361.5	359.9 A
157.7	13.4		511.4	0.14	4.89	3.84	2.60	23	0.74	0.30	-0.025	6.74	361.3	
162.0	12.8		514.2	0.14	4.81	3.67	2.76	21	0.66	0.29	-0.052	6.63	361.3	360.2
182.3	15.9		585.3	0.15	4.85	3.80	2.82	26	0.60	0.29	-0.071	6.65	362.2	
280.3	24.8		912.0	0.18	5.13	4.15	3.07	27	0.35	0.28	-0.093	6.84	361.9	360.2
196.7	17.9		683.2	0.18	5.43	4.07	3.10	32	0.88	0.34	-0.061	6.90	361.4	
172.8	12.0		630.9	0.19	5.31	4.21	3.22	34	0.61	0.32	-0.107	6.18	361.6	360.1
137.9	5.8		553.1	0.19	5.34	4.13	3.18	35	0.71	0.32	-0.088	5.96	360.6	
151.0	10.3		460.2	0.18	4.85	4.09	2.96	32	0.49	0.28	-0.088	5.69	360.2	359.8 A
128.8	10.7		352.8	0.18	5.00	4.21	2.94	42	0.22	0.26	-0.021	4.84	360.0	
79.2	5.8		241.4	0.18	5.04	4.24	3.02	46	0.18	0.26	-0.014	4.71	358.9	359.7 A
67.9	0.4		238.5	0.22	4.79	3.84	2.78	47	0.27	0.26	-0.010	5.14	359.0	
448.3	56.7		1462.2	0.22	5.54	4.33	3.22	284	1.82	0.34	-0.002	9.39	363.4	360.3
16.6	-3.2		41.0	0.09	3.22	2.37	1.44	10	0.18	0.19	-0.119	3.66	358.7	359.2
146.5	15.1		451.5	0.14	4.30	3.31	2.32	66	0.89	0.27	-0.032	6.07	360.7	359.9
12.7	1.3													

IBP site June 24

Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-0.5	4.5	96.3	-0.4	4.5	96.0	-0.4	4.2	88.3	1.9	2.7	1.5		89.7	19.8
030	-0.8	4.5	97.7	-0.7	4.5	97.5	-0.7	4.1	89.5	1.4	2.5	1.4		75.5	19.0
100	-1.1	4.3	97.1	-1.1	4.3	97.1	-1.3	4.0	89.8	0.7	2.2	1.3		63.1	19.3
130	-1.4	4.4	99.2	-1.4	4.4	99.1	-1.4	4.0	91.1	0.2	2.0	1.2		41.2	7.6
200	-1.1	4.5	99.8	-1.1	4.5	99.5	-1.1	4.1	91.8	0.1	1.8	1.1		34.7	4.7
230	-1.1	4.4	97.5	-1.1	4.4	98.4	-1.1	4.1	91.4	0.2	1.6	0.9		30.5	4.1
300	-1.3	4.3	98.6	-1.3	4.4	98.8	-1.4	4.0	91.3	0.0	1.4	0.8		29.4	4.2
330	-1.5	4.4	99.8	-1.4	4.4	99.8	-1.4	4.0	91.6	-0.3	1.3	0.7		27.0	2.8
400	-1.1	4.4	99.2	-1.0	4.5	99.5	-1.0	4.1	91.5	-0.1	1.2	0.5		22.4	1.6
430	-1.0	4.5	99.8	-1.0	4.5	100.0	-0.9	4.3	94.2	0.0	1.1	0.4		23.1	2.4
500	-1.0	4.6	100.0	-0.9	4.7	100.0	-0.9	4.3	95.5	0.0	1.0	0.3		25.3	4.0
530	-0.9	4.7	100.0	-0.9	4.7	100.0	-0.8	4.3	93.8	0.0	1.0	0.2		31.3	3.4
600	-0.8	4.6	100.0	-0.7	4.6	99.7	-0.7	4.2	90.6	0.1	1.0	0.2		41.8	4.9
630	-0.6	4.5	96.8	-0.6	4.5	97.0	-0.5	4.0	86.3	0.3	1.0	0.1		55.6	7.2
700	-0.5	4.4	95.1	-0.5	4.4	94.7	-0.3	4.3	90.3	0.6	1.0	0.1		89.5	12.1
730	-0.3	4.5	95.1	-0.2	4.6	96.3	0.1	4.4	89.6	1.0	1.1	0.0		127.1	17.7
800	-0.2	4.6	96.9	0.0	4.7	96.5	0.3	4.4	88.9	1.4	1.3	0.0		165.8	23.9
830	-0.2	4.6	96.6	0.0	4.7	97.3	0.5	4.4	88.6	2.0	1.4	0.0		204.9	31.5
900	-0.1	4.6	96.6	0.2	4.7	96.8	0.8	4.5	87.7	2.5	1.6	0.1		228.9	35.4
930	-0.2	4.6	96.9	0.1	4.8	97.8	0.7	4.5	88.3	2.7	1.8	0.1		216.1	33.0
1000	-0.1	4.7	97.1	0.3	4.8	96.9	0.9	4.5	87.0	2.7	1.9	0.2		257.8	41.2
1030	0.3	4.6	93.8	0.6	4.8	94.9	1.5	4.5	84.2	3.3	2.1	0.1		313.8	49.5
1100	0.5	4.7	95.0	0.8	4.9	96.0	1.5	4.6	85.3	3.9	2.3	0.2		294.6	44.6
1130	0.6	4.7	93.5	0.9	4.8	93.6	1.7	4.5	82.6	4.2	2.4	0.4		282.5	41.9
1200	0.5	4.9	97.3	0.8	5.0	97.3	1.5	4.6	87.0	4.0	2.5	0.5		255.7	37.8
1230	0.9	4.9	95.3	1.2	5.0	95.0	2.0	4.6	83.4	4.5	2.7	0.6		303.9	45.0
1300	0.9	4.8	94.4	1.1	4.9	94.7	1.8	4.6	83.7	4.5	2.7	0.7		272.4	40.4
1330	0.8	4.9	95.4	1.1	5.0	95.3	1.8	4.6	84.2	4.4	2.8	0.8		269.3	40.2
1400	1.2	4.8	92.1	1.5	4.9	91.4	2.3	4.6	80.9	4.7	3.0	0.8		321.9	48.4
1430	2.0	4.8	86.4	2.3	4.9	86.3	3.5	4.6	75.4	5.9	3.4	0.8		522.6	78.5
1500	2.1	4.7	84.6	2.5	4.8	84.1	3.8	4.6	73.0	6.9	3.7	1.0		521.7	79.8
1530	1.6	4.7	87.9	1.9	4.8	87.7	2.8	4.5	76.8	6.3	3.8	1.2		384.0	58.3
1600	1.4	4.7	87.5	1.7	4.8	87.6	2.5	4.4	77.4	5.9	3.9	1.4		338.6	50.7
1630	1.4	4.5	85.6	1.7	4.6	84.6	2.5	4.3	74.9	5.7	3.9	1.5		321.1	47.8
1700	1.5	4.5	84.6	1.8	4.6	84.1	2.5	4.3	75.3	5.6	3.9	1.6		283.7	42.4
1730	1.5	4.5	83.5	1.8	4.5	82.0	2.7	4.3	73.4	5.6	4.0	1.6		297.4	43.8
1800	1.4	4.5	84.0	1.7	4.5	83.2	2.5	4.2	73.9	5.5	4.0	1.6		261.2	38.6
1830	1.0	4.6	88.6	1.2	4.6	87.7	1.8	4.3	78.4	5.1	3.9	1.8		206.7	30.3
1900	0.8	4.6	89.5	1.1	4.6	88.9	1.7	4.3	79.5	4.8	3.9	1.8		203.1	29.5
1930	0.5	4.6	92.9	0.7	4.7	93.6	1.2	4.4	84.9	4.4	3.7	1.8		175.2	26.1
2000	0.2	4.7	97.0	0.4	4.8	97.3	0.7	4.5	89.4	3.8	3.6	1.8		128.6	18.1
2030	0.3	4.6	93.0	0.5	4.7	93.4	0.8	4.5	87.6	3.5	3.5	1.7		137.1	19.0
2100	0.3	4.5	90.4	0.5	4.6	91.2	1.0	4.4	85.2	3.8	3.4	1.6		179.1	27.9
2130	0.0	4.4	90.6	0.1	4.5	91.4	0.5	4.2	85.0	3.4	3.3	1.6		114.3	17.2
2200	-0.2	4.3	90.2	0.0	4.3	89.7	0.2	4.1	83.6	2.7	3.1	1.6		90.3	12.9
2230	-0.3	4.4	92.3	-0.1	4.4	92.3	0.1	4.2	85.7	2.6	3.0	1.5		88.6	12.7
2300	-0.2	4.3	90.9	-0.1	4.4	91.4	0.1	4.2	85.5	2.4	2.8	1.4		95.6	14.7
2330	-0.4	4.3	92.6	-0.3	4.4	93.0	-0.2	4.1	86.0	2.0	2.7	1.3		74.0	10.8
Max	2.1	4.9	100.0	2.5	5.0	100.0	3.8	4.6	95.5	6.9	4.0	1.8		522.6	79.8
Min	-1.5	4.3	83.5	-1.4	4.3	82.0	-1.4	4.0	73.0	-0.3	1.0	0.0		22.4	1.6
Ave	0.1	4.6	93.9	0.3	4.6	93.9	0.7	4.3	85.4	2.9	2.5	0.9		179.5	27.2
Sum														15.5	2.4

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
21.0	-4.4		184.1	0.22	4.41	3.64	2.65	50	0.45	0.26	-0.007	5.39	357.5	359.5 A
1.0	-8.0		153.2	0.25	4.03	3.25	2.48	53	0.33	0.22	-0.004	4.76	359.3	
-33.5	-13.4		135.5	0.31	3.49	2.75	2.00	52	0.33	0.19	0.006	3.56	359.9	359.6 A
-21.9	-14.2		91.9	0.19	2.84	2.30	1.65	39	0.75	0.17	0.015	2.05	359.4	
-4.9	-9.7		73.0	0.14	3.56	2.98	2.28	45	0.14	0.17	0.001	2.29	360.3	359.5 A
0.9	-7.2		66.0	0.14	4.00	3.28	2.33	49	0.24	0.21	0.002	3.70	360.8	
-15.9	-8.0		65.9	0.14	3.63	2.89	2.12	48	0.59	0.22	0.003	4.42	361.4	359.8 D
-4.8	-7.8		59.8	0.10	3.32	2.73	2.05	43	0.34	0.18	-0.005	2.42	362.6	
17.3	-4.3		46.5	0.07	3.09	2.52	1.96	43	0.48	0.18	-0.032	1.86	362.9	360.2
16.1	-2.1		47.9	0.10	3.33	2.82	2.01	35	1.17	0.23	-0.062	2.28	362.9	
17.7	-1.5		53.9	0.16	3.62	2.90	2.23	35	0.69	0.22	-0.029	2.15	363.0	360.4 NC
24.1	-0.7		67.4	0.11	3.65	2.95	2.23	39	0.39	0.20	-0.013	3.03	363.7	
35.5	1.4		90.4	0.12	3.61	2.90	2.15	46	0.25	0.19	-0.006	3.54	363.4	360.4 NC
47.8	4.1		121.8	0.13	3.37	2.77	2.04	47	0.15	0.17	-0.010	3.41	364.4	
75.5	7.5		195.8	0.14	3.90	3.07	2.39	45	0.36	0.21	-0.018	4.44	362.9	360.5 NC
99.9	13.4		277.9	0.14	3.89	3.27	2.43	44	0.10	0.18	-0.031	3.86	363.3	
131.0	17.6		369.8	0.14	4.10	3.33	2.49	41	0.36	0.23	-0.036	5.35	362.7	360.6 NC
158.8	23.9		458.3	0.15	3.62	3.04	2.19	30	0.68	0.22	-0.164	5.44	363.1	
177.5	27.2		520.1	0.15	3.52	2.89	2.12	27	0.37	0.20	-0.148	5.72	363.4	360.7 NC
163.3	23.8		496.9	0.15	3.37	2.73	1.87	13	0.34	0.19	-0.046	5.17	363.7	
190.6	23.5		601.8	0.16	3.68	2.93	2.09	17	0.39	0.21	-0.060	5.86	364.3	360.6
247.5	31.5		711.1	0.16	4.17	3.06	2.08	18	1.78	0.29	-0.043	7.78	368.1	
232.6	32.2		668.5	0.15	4.17	3.03	2.19	22	1.28	0.28	-0.048	7.37	365.8	360.2
221.8	31.9		643.7	0.15	4.60	3.64	2.68	27	0.55	0.27	-0.073	7.01	366.6	
205.7	25.2		585.8	0.15	4.20	3.38	2.30	32	0.41	0.24	-0.046	5.36	365.4	360.2
242.7	32.3		693.1	0.15	4.88	3.72	2.76	35	0.77	0.30	-0.049	7.40	366.0	
219.0	28.0		620.7	0.15	4.74	3.96	2.87	36	0.21	0.24	-0.062	5.44	364.5	360.2
216.1	26.6		615.1	0.15	5.06	3.99	2.84	31	0.81	0.31	-0.047	7.00	368.2	
258.9	30.3		737.2	0.15	4.96	3.84	2.85	40	0.64	0.30	-0.042	7.65	368.0	360.1
412.3	51.7		1192.4	0.15	5.27	4.22	2.90	54	0.50	0.31	-0.028	7.66	368.2	
406.1	58.8		1170.8	0.15	5.18	4.36	3.14	46	0.15	0.26	-0.052	6.93	367.6	360.3
301.6	38.7		874.6	0.15	5.57	4.47	3.19	44	0.42	0.32	-0.025	7.72	364.7	
266.6	31.5		764.6	0.15	5.57	4.39	3.24	45	0.54	0.33	-0.029	8.27	362.1	360.4
250.5	29.5		729.6	0.15	5.05	4.09	3.01	51	0.39	0.29	-0.030	7.79	365.6	
220.9	26.9		643.0	0.15	4.69	3.79	2.84	52	0.39	0.27	-0.036	7.47	366.0	360.6 V
227.3	27.8		678.3	0.15	4.88	3.92	2.91	70	0.50	0.29	-0.036	8.24	365.4	
197.6	25.5		596.9	0.15	4.40	3.38	2.53	76	0.76	0.28	-0.035	8.00	364.2	360.4
159.4	20.5		469.6	0.15	4.20	3.48	2.53	52	0.15	0.21	-0.044	5.16	364.1	
158.0	17.8		461.6	0.15	4.30	3.47	2.62	47	0.29	0.23	-0.033	6.48	364.3	360.4
137.4	14.7		395.4	0.15	4.32	3.36	2.47	45	0.69	0.26	-0.030	6.41	364.6	
101.7	9.6		286.2	0.14	4.22	3.43	2.46	53	0.37	0.24	-0.021	5.54	365.5	360.4
103.4	8.8		309.8	0.14	3.83	3.18	2.25	76	0.44	0.22	-0.023	5.31	364.3	
131.1	12.1		394.0	0.16	3.80	2.85	2.26	75	0.65	0.23	-0.028	6.38	364.8	360.3
80.1	8.1		252.0	0.15	3.80	2.74	2.08	80	1.32	0.26	-0.018	6.13	365.8	
51.6	2.3		205.8	0.14	3.39	2.64	1.87	77	0.96	0.22	-0.018	5.48	363.2	360.3
63.7	3.9		193.4	0.14	3.34	2.55	1.81	71	1.22	0.22	-0.020	5.46	360.3	
57.0	2.6		206.4	0.15	3.26	2.64	1.91	74	0.47	0.19	-0.015	4.60	360.6	360.3
30.4	-0.2		163.5	0.15	3.29	2.51	1.81	79	1.16	0.22	-0.011	5.31	361.8	
412.3	58.8		1192.4	0.31	5.57	4.47	3.24	80	1.78	0.33	0.015	8.27	368.2	360.7
-33.5	-14.2		46.5	0.07	2.84	2.30	1.65	13	0.10	0.17	-0.164	1.86	357.5	359.5
131.2	14.4		405.0	0.15	4.07	3.25	2.38	47	0.56	0.24	-0.033	5.42	363.8	360.2
11.3	1.2													

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-0.7	4.4	95.4	-0.6	4.4	95.2	-0.5	4.1	87.7	1.5	2.5	1.3		45.6	5.7
030	-0.8	4.4	95.8	-0.7	4.4	96.7	-0.7	4.1	89.8	1.3	2.3	1.2		34.2	3.9
100	-0.9	4.3	94.1	-0.8	4.3	94.5	-0.8	4.0	87.5	1.0	2.1	1.1		35.2	4.0
130	-0.8	4.3	94.9	-0.7	4.4	94.8	-0.7	4.1	88.1	0.9	1.9	1.0		27.1	3.0
200	-0.9	4.4	96.2	-0.8	4.4	96.8	-0.8	4.1	89.6	0.9	1.8	0.9		33.8	4.5
230	-1.3	4.3	97.4	-1.2	4.4	98.4	-1.0	4.1	90.6	0.8	1.7	0.8		37.4	5.2
300	-1.6	4.3	99.2	-1.5	4.3	99.1	-1.2	4.0	90.8	0.6	1.6	0.7		40.9	5.4
330	-1.5	4.4	100.0	-1.4	4.4	100.0	-1.2	4.1	92.0	0.6	1.5	0.6		36.7	3.8
400	-1.7	4.3	100.0	-1.6	4.3	100.0	-1.4	4.1	92.3	0.5	1.4	0.5		32.9	3.4
430	-1.9	4.9	100.0	-1.9	4.2	100.0	-1.7	4.0	92.2	0.2	1.2	0.4		37.9	4.2
500	-1.9	4.3	100.0	-1.8	4.5	100.0	-1.6	4.0	92.4	0.2	1.2	0.3		63.2	8.0
530	-1.8	4.3	100.0	-1.8	4.8	100.0	-1.5	4.0	92.3	0.4	1.1	0.2		68.6	10.1
600	-2.2	4.2	100.0	-2.1	4.3	100.0	-1.8	3.9	92.1	0.1	1.0	0.2		65.0	9.2
630	-2.2	4.2	100.0	-2.1	4.3	100.0	-1.8	4.2	98.1	0.0	1.0	0.1		109.3	19.4
700	-2.0	4.3	100.0	-1.8	4.3	100.0	-1.4	4.5	100.0	0.4	1.0	0.0		148.7	24.1
730	-1.5	4.3	97.5	-1.3	4.3	98.5	-0.9	4.1	91.1	0.9	1.1	0.0		166.7	27.5
800	-1.3	4.3	96.7	-1.1	4.4	98.0	-0.6	4.1	88.2	1.4	1.2	-0.1		201.0	34.1
830	-1.2	4.3	95.6	-1.0	4.4	96.9	-0.4	3.9	83.4	2.0	1.3	-0.1		228.7	35.6
900	-1.0	4.4	96.4	-0.7	4.4	96.1	-0.1	4.1	84.4	2.6	1.6	-0.1		212.9	30.9
930	-0.5	4.3	92.5	-0.2	4.2	89.3	0.5	4.4	88.1	3.1	1.8	0.0		232.1	33.6
1000	-0.2	4.2	88.4	0.0	4.4	90.3	0.8	4.4	86.7	3.5	2.0	0.0		257.2	38.3
1030	-0.5	4.4	94.4	-0.3	4.5	95.7	0.4	4.2	84.4	3.4	2.1	0.2		210.8	31.0
1100	-0.5	4.4	93.9	-0.3	4.5	94.9	0.3	3.9	78.6	2.7	2.1	0.2		190.7	27.3
1130	0.0	4.3	90.1	0.3	4.6	92.6	1.3	4.0	74.6	3.7	2.3	0.0		327.5	51.7
1200	0.4	4.5	90.4	0.7	4.6	90.5	1.9	4.0	72.9	4.7	2.7	0.1		391.2	59.4
1230	0.5	4.5	90.0	0.9	4.6	89.0	1.9	4.6	84.2	5.3	3.3	0.5		352.7	52.5
1300	0.8	4.4	87.1	1.1	4.5	86.6	2.3	4.6	81.4	5.5	3.4	0.3		407.0	59.0
1330	1.2	4.4	83.4	1.6	4.5	83.1	2.8	4.6	78.8	6.2	3.1	0.1		454.1	69.2
1400	1.3	4.4	82.7	1.6	4.5	82.5	2.6	4.5	78.1	5.8	3.7	0.7		371.1	53.1
1430	1.4	4.4	81.8	1.8	4.4	81.2	2.8	4.5	76.9	5.8	4.0	1.0		389.8	52.9
1500	1.7	4.4	80.7	2.1	4.5	80.5	3.1	4.5	76.2	5.9	3.7	1.1		433.8	62.9
1530	1.9	4.5	81.9	2.3	4.6	81.6	3.3	4.7	76.7	6.5	3.5	0.9		443.7	68.0
1600	1.7	4.5	83.4	2.1	4.6	82.6	3.0	4.7	79.0	6.4	3.9	0.9		403.6	60.9
1630	1.7	4.5	83.4	2.0	4.6	83.3	3.0	4.6	78.3	6.5	4.2	1.5		418.7	63.8
1700	1.7	4.6	84.0	2.0	4.7	84.2	3.0	4.7	79.4	6.5	4.1	1.7		440.6	68.2
1730	0.7	4.5	88.8	0.9	4.6	88.6	1.8	4.6	83.7	5.6	3.8	1.7		284.9	43.2
1800	0.2	4.4	90.2	0.5	4.5	89.6	1.2	4.5	85.2	5.0	4.5	1.4		258.6	36.2
1830	-0.4	4.4	93.6	-0.1	4.5	93.8	0.4	4.5	89.7	4.2	3.3	2.2		206.9	29.0
1900	-0.3	4.4	94.1	-0.1	4.5	94.3	0.5	4.5	90.2	4.2	3.4	1.5		232.0	33.9
1930	-0.4	4.5	96.3	-0.2	4.6	96.3	0.3	4.5	92.1	3.8	3.1	2.2		181.5	25.4
2000	-0.5	4.4	94.6	-0.3	4.5	94.5	0.2	4.4	90.4	3.5	3.5	1.5		182.0	24.5
2030	-0.7	4.5	97.3	-0.5	4.6	98.1	-0.1	4.5	94.1	3.0	3.0	1.4		139.1	19.9
2100	-0.7	4.5	97.5	-0.6	4.6	98.1	-0.2	4.5	94.2	2.6	2.9	1.5		127.4	16.7
2130	-0.7	4.5	98.1	-0.6	4.6	98.9	-0.4	4.5	95.7	2.3	2.4	1.2		98.8	14.7
2200	-0.9	4.5	99.7	-0.8	4.6	100.0	-0.6	4.5	96.3	2.0	2.3	1.2		71.2	10.0
2230	-1.1	4.4	99.4	-1.0	4.5	99.6	-0.8	4.4	96.4	1.6	2.7	1.0		68.8	7.5
2300	-1.4	4.3	98.7	-1.3	4.4	99.5	-1.1	4.3	96.8	1.3	2.3	0.9		47.0	4.0
2330	-1.4	4.4	99.4	-1.3	4.4	99.7	-1.2	4.3	96.9	1.0	1.4	1.2		48.3	5.0
Max	1.9	4.9	100.0	2.3	4.8	100.0	3.3	4.7	100.0	6.5	4.5	2.2		454.1	69.2
Min	-2.2	4.2	80.7	-2.1	4.2	80.5	-1.8	3.9	72.9	0.0	1.0	-0.1		27.1	3.0
Ave	-0.5	4.4	93.6	-0.3	4.5	93.8	0.3	4.3	87.5	2.9	2.4	0.8		193.7	28.4
Sum														16.7	2.5

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
20.0	-3.8		102.4	0.13	3.15	2.48	1.74	77	0.66	0.19	-0.010	4.31	360.1	360.3
18.7	-3.3		74.4	0.11	3.18	2.40	1.70	67	1.20	0.21	-0.004	4.74	360.4	
14.3	-4.5		74.4	0.11	3.22	2.36	1.66	80	1.69	0.23	-0.004	5.10	361.1	360.2
21.3	-3.1		54.0	0.11	3.10	2.43	1.79	75	0.64	0.19	-0.009	4.31	360.1	
25.4	-1.8		63.7	0.13	3.14	2.52	1.77	80	0.83	0.20	-0.009	4.55	359.4	360.2
25.6	-1.8		70.6	0.14	3.21	2.37	1.89	106	0.64	0.19	-0.018	4.59	359.4	
21.4	-2.7		80.0	0.13	2.74	2.01	1.59	99	0.82	0.17	-0.026	4.55	361.0	360.2
27.9	-1.3		72.0	0.10	2.66	2.04	1.47	100	0.96	0.17	-0.027	4.65	360.2	
18.8	-2.1		67.1	0.10	2.82	2.20	1.63	102	0.67	0.17	-0.024	4.63	362.1	360.2
17.0	-5.0		81.6	0.11	3.01	2.50	1.83	100	0.23	0.16	-0.018	3.70	363.1	
44.1	-2.2		131.3	0.13	2.97	2.34	1.69	106	0.90	0.19	-0.020	5.04	364.0	360.2
42.6	0.2		142.8	0.15	2.97	2.34	1.82	114	0.42	0.17	-0.028	4.67	364.6	
24.2	-3.0		144.6	0.14	2.87	2.28	1.78	113	0.29	0.16	-0.031	4.40	364.2	360.3
56.4	-3.0		239.8	0.18	2.92	2.28	1.70	110	0.42	0.17	-0.031	4.58	362.8	
88.8	3.0		286.3	0.16	3.32	2.55	1.95	122	0.50	0.19	-0.036	5.64	362.8	360.2
114.8	8.2		346.0	0.17	3.45	2.74	2.21	125	0.26	0.18	-0.039	5.46	363.1	
141.6	13.4		427.8	0.17	3.58	3.13	2.29	122	0.08	0.17	-0.036	4.79	363.9	360.2
167.7	16.7		496.2	0.16	3.52	3.06	2.22	129	0.24	0.20	-0.025	5.62	363.7	
164.7	19.6		464.3	0.15	3.68	3.02	2.19	122	0.22	0.19	-0.046	5.29	361.9	360.3
181.6	23.4		506.5	0.15	4.21	3.28	2.37	122	0.66	0.26	-0.027	7.06	365.6	
204.2	23.9		565.8	0.15	4.46	3.75	2.68	115	0.23	0.24	-0.029	6.05	366.1	360.2
167.5	22.9		464.7	0.15	4.98	4.01	2.81	108	0.44	0.29	-0.018	6.74	366.7	
156.8	15.2		431.5	0.14	4.96	3.89	2.70	105	0.89	0.32	-0.016	7.86		360.0
273.8	30.9		682.4	0.16	5.00	3.92	2.96	106	0.54	0.29	-0.051	8.25		
309.4	39.2		867.9	0.15	4.61	3.92	3.05	114	0.06	0.21	-0.063	6.51		359.8
286.5	36.6		789.5	0.15	5.18	4.32	3.11	112	0.25	0.29	-0.027	7.46	368.2	
319.9	36.4		934.3	0.15	5.33	4.23	3.24	110	0.42	0.32	-0.026	8.80	369.0	359.8
350.5	43.4		1043.6	0.15	5.39	4.52	3.35	116	0.18	0.28	-0.036	7.43	370.1	
289.3	33.7		875.3	0.14	5.57	4.57	3.27	112	0.28	0.31	-0.021	7.61	370.5	359.7
301.5	34.5		922.0	0.14	5.83	4.90	3.55	108	0.19	0.31	-0.023	7.61	369.6	
340.5	35.6		1024.8	0.15	6.35	5.17	3.77	103	0.53	0.39	-0.016	9.60	369.8	359.7
349.8	39.7		1010.1	0.15	6.31	5.11	3.88	111	0.27	0.35	-0.017	8.49	369.7	
319.8	33.8		920.1	0.15	6.23	4.85	3.71	110	0.92	0.41	-0.016	10.90	369.4	359.9
329.6	35.2		949.4	0.15	6.49	5.07	4.00	109	0.49	0.39	-0.019	10.46	369.1	
349.6	34.2		1004.0	0.16	6.67	5.46	4.00	104	0.43	0.40	-0.013	9.35	368.6	360.0
221.5	22.2		661.9	0.15	6.61	5.22	3.81	101	0.63	0.41	-0.012	9.94	367.0	
203.0	18.1		598.0	0.14	6.49	5.15	3.92	107	0.65	0.41	-0.012	10.54	366.6	360.1
165.8	10.3		479.8	0.14	6.34	5.06	3.76	109	0.52	0.38	-0.013	9.20	367.1	
186.7	12.8		533.8	0.15	6.15	4.91	3.47	113	0.79	0.40	-0.009	9.27	365.4	360.0
144.7	9.7		412.8	0.14	6.16	4.82	3.49	108	0.86	0.41	-0.008	9.64	365.7	
142.5	8.5		413.7	0.14	6.50	5.17	3.78	115	0.79	0.41	-0.010	9.66	367.6	360.1
112.2	4.8		317.4	0.14	6.51	5.10	3.73	111	0.75	0.41	-0.007	9.70	367.5	
102.8	3.1		289.2	0.13	6.99	5.36	4.08	118	0.79	0.44	-0.007	9.48	367.6	360.0
82.2	1.2		223.3	0.15	6.74	5.50	4.12	119	0.36	0.39	-0.004	8.45	366.8	
60.3	-0.7		157.1	0.14	6.32	5.20	3.79	115	0.53	0.38	-0.006	8.45	365.4	360.0
57.6	-1.4		152.2	0.11	6.17	4.87	3.72	116	0.47	0.36	-0.006	8.49	365.9	
38.1	-3.7		109.5	0.09	6.20	5.00	3.68	120	0.56	0.38	-0.003	8.39	366.5	360.0
40.6	-4.2		107.8	0.10	6.01	4.84	3.69	116	0.62	0.38	-0.003	8.83	366.7	
350.5	43.4		1043.6	0.18	6.99	5.50	4.12	129	1.69	0.44	-0.003	10.90	370.5	360.3
14.3	-5.0		54.0	0.09	2.66	2.01	1.47	67	0.06	0.16	-0.063	3.70	359.4	359.7
148.8	13.0		434.7	0.14	4.80	3.84	2.84	108	0.56	0.29	-0.020	7.10	365.2	360.1
12.9	1.1													

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-1.5	4.3	98.6	-1.4	4.4	99.7	-1.3	4.3	97.6	0.9	1.9	0.6		69.5	10.1
030	-1.5	4.3	99.0	-1.5	4.3	99.4	-1.3	4.3	97.0	0.8	1.5	0.7		57.9	8.3
100	-1.5	4.3	99.5	-1.4	4.4	100.0	-1.3	4.3	97.4	0.6	1.0	0.6		28.6	3.5
130	-1.6	4.3	99.8	-1.5	4.3	99.7	-1.5	4.3	97.8	0.3	1.4	0.6		23.0	0.7
200	-1.8	4.3	100.0	-1.7	4.3	100.0	-1.6	4.3	98.6	0.2	0.6	0.8		20.0	1.7
230	-1.9	4.2	98.7	-1.8	4.2	99.5	-1.8	4.5	100.0	0.0	0.8	0.4		25.6	1.9
300	-2.0	4.1	98.7	-2.0	4.2	100.0	-1.9	4.6	100.0	-0.2	1.3	0.2		24.7	
330	-2.1	4.8	100.0	-2.0	4.2	99.1	-2.0	4.2	99.1	-0.3	0.3	0.1		29.5	4.4
400	-2.1	4.1	99.4	-2.0	4.1	98.4	-1.9	4.2	98.6	-0.3	-0.1	0.3		32.4	4.4
430	-2.1	4.1	99.2	-2.0	4.1	98.3	-1.9	4.1	97.8	-0.4	0.2	0.1		36.5	3.5
500	-1.8	4.2	97.4	-1.7	4.1	95.7	-1.6	4.1	95.8	-0.2	0.0	0.1		68.8	9.4
530	-1.7	4.1	96.8	-1.7	4.2	96.9	-1.5	4.1	94.7	-0.1	-0.4	0.0		75.6	12.6
600	-1.7	4.1	96.1	-1.6	4.1	95.1	-1.5	4.1	94.3	-0.1	-0.2	-0.3		65.6	10.0
630	-1.7	4.1	95.5	-1.6	4.1	95.5	-1.4	4.1	93.9	0.0	0.1	-0.3		84.9	11.8
700	-1.5	4.1	94.8	-1.4	4.1	94.8	-1.2	4.1	92.9	0.1	0.3	-0.7		111.7	16.0
730	-1.5	4.1	94.9	-1.3	4.2	94.5	-1.0	4.1	92.1	0.4	-0.5	-0.5		118.1	18.9
800	-1.4	4.1	94.8	-1.3	4.1	93.9	-1.0	4.1	91.5	0.5	-0.1	-0.1		112.4	15.2
830	-1.3	4.2	94.8	-1.1	4.2	94.3	-0.8	4.2	91.4	0.5	0.0	-0.4		100.3	14.4
900	-1.2	4.2	95.1	-1.0	4.3	94.5	-0.7	4.2	91.8	0.6	0.4	-0.3		169.5	23.0
930	-0.7	4.2	92.4	-0.6	4.3	93.5	-0.1	4.0	84.1	1.2	0.2	-0.5		170.5	24.8
1000	-0.4	4.2	89.6	-0.2	4.4	91.6	0.2	4.1	82.9	1.3	0.5	-0.5		145.5	19.4
1030	-0.1	4.1	84.9	0.1	4.4	91.2	0.5	4.4	87.8	1.4	0.5	-0.6		148.5	21.2
1100	0.0	4.3	88.6	0.2	4.5	92.6	0.7	4.5	89.8	1.9	0.2	-0.1		223.6	31.1
1130	0.8	4.6	89.6	1.2	4.7	88.8	2.0	4.7	84.0	2.8	1.2	-0.3		447.6	66.7
1200	1.4	4.7	87.7	1.8	4.7	86.4	2.7	4.7	81.2	3.9	2.3	-0.6		465.4	69.1
1230	1.2	4.6	87.5	1.6	4.7	86.3	2.4	4.6	81.3	4.2	2.1	-0.1		417.3	60.5
1300	1.5	4.7	86.9	1.9	4.7	85.6	2.8	4.7	80.6	4.5	3.1	0.2		442.8	62.5
1330	2.1	4.7	85.0	2.5	4.8	83.6	3.5	4.8	78.5	5.2	3.7	-0.2		522.6	75.8
1400	2.1	4.8	85.5	2.6	4.8	84.1	3.6	4.9	78.9	5.5	3.0	0.6		489.3	70.4
1430	2.6	4.9	84.8	3.0	5.0	83.6	4.1	5.0	78.4	5.8	3.5	0.1		507.9	75.1
1500	3.6	5.1	82.5	4.2	5.2	80.8	5.6	5.3	75.2	7.4	3.6	0.4		775.1	117.0
1530	3.5	5.1	83.6	4.0	5.2	82.4	5.3	5.3	76.3	8.1	3.8	1.0		652.3	100.0
1600	3.0	5.1	86.5	3.5	5.2	85.3	4.5	5.2	79.2	7.9	4.2	1.2		517.0	79.9
1630	3.2	5.2	86.5	3.5	5.3	86.1	4.5	5.3	80.2	7.8	4.4	1.5		531.9	82.9
1700	3.0	5.2	87.3	3.4	5.3	86.9	4.4	5.2	80.6	8.0	3.9	1.7		560.3	90.6
1730	2.5	5.1	89.3	2.9	5.2	88.7	3.9	5.2	82.3	7.8	4.4	1.9		410.2	64.2
1800	2.7	5.1	88.4	3.1	5.3	88.1	4.2	5.3	82.2	7.9	4.6	1.9		485.7	78.3
1830	2.2	5.0	89.7	2.6	5.2	89.0	3.6	5.1	83.0	7.7	5.0	1.8		382.9	61.1
1900	1.9	5.0	90.2	2.2	5.1	90.1	3.0	5.0	85.0	6.8	4.3	2.4		310.9	47.8
1930	1.3	4.9	92.9	1.6	5.0	92.4	2.3	4.9	87.5	6.2	4.4	2.1		229.2	35.9
2000	0.3	4.7	96.3	0.4	4.8	96.0	0.7	4.7	92.6	4.4	4.7	2.2		61.5	4.9
2030	0.2	4.8	98.3	0.3	4.9	99.0	0.5	4.8	95.9	3.4	3.7	2.1		65.1	4.5
2100	0.8	5.0	97.8	0.9	5.1	98.3	1.2	5.1	97.0	3.5	3.7	2.0		188.5	25.6
2130	0.6	4.9	97.7	0.8	5.0	97.8	1.0	5.0	96.4	3.7	3.6	1.8		129.5	17.1
2200	0.5	4.8	97.1	0.6	4.9	97.8	0.8	4.9	95.3	3.3	3.6	1.6		111.5	14.3
2230	0.5	4.8	96.8	0.7	5.0	98.1	0.9	4.9	95.5	3.2	2.8	1.8		105.5	12.4
2300	0.9	4.9	96.2	1.0	5.0	97.7	1.2	5.0	94.9	3.1	3.1	1.5		69.5	8.4
2330	1.0	4.9	95.8	1.1	5.0	96.6	1.2	5.0	94.6	2.9	3.1	1.4		89.0	13.2
Max	3.6	5.2	100.0	4.2	5.3	100.0	5.6	5.3	100.0	8.1	5.0	2.4		775.1	117.0
Min	-2.1	4.1	82.5	-2.0	4.1	80.8	-2.0	4.0	75.2	-0.4	-0.5	-0.7		20.0	0.7
Ave	0.2	4.6	93.1	0.4	4.6	93.1	0.9	4.6	89.7	3.0	2.1	0.6		227.3	34.1
Sum														19.6	2.9

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
57.8	-2.7		140.3	0.15	6.76	5.28	4.08	122	0.61	0.41	-0.003	9.00	365.7	360.1
47.6	-2.3		114.2	0.14	6.35	4.90	3.49	123	0.86	0.41	-0.003	8.92	365.9	
25.8	-4.1		57.9	0.12	5.88	4.57	3.48	125	0.35	0.33	-0.003	6.94	365.4	360.2
19.8	-5.3		44.5	0.03	5.95	4.75	3.46	125	0.59	0.37	-0.002	7.87	365.5	
18.0	-5.2		37.8	0.08	5.19	4.33	3.10	121	0.28	0.29	-0.003	6.26	364.9	360.2
14.9	-6.0		51.2	0.08	5.84	4.82	3.32	126	0.43	0.35	-0.001	7.14	365.1	
20.7	-5.4		46.4		5.67	4.37	3.39	121	0.81	0.36	-0.002	7.96	364.9	360.1
23.0	-4.9		58.9	0.15	5.54	4.28	3.22	116	0.69	0.35	-0.002	7.87	365.4	
23.7	-4.4		66.5	0.14	5.67	4.34	3.28	119	0.89	0.37	-0.003	8.45	365.4	360.0
24.0	-4.5		78.3	0.10	6.03	4.72	3.48	124	0.81	0.39	-0.002	8.88	365.0	
51.8	-1.3		142.2	0.14	5.90	4.69	3.37	126	0.46	0.36	-0.002	7.50	364.3	359.9
57.9	0.4		161.5	0.17	5.71	4.58	3.53	119	0.30	0.33	-0.003	7.01	364.5	
55.6	0.9		149.6	0.15	5.95	4.92	3.81	119	0.38	0.35	-0.004	8.03	364.5	359.9
69.0	2.3		193.5	0.14	5.72	4.62	3.34	120	0.51	0.35	-0.003	7.59	364.6	
93.3	5.1		254.9	0.14	5.91	4.75	3.61	116	0.43	0.35	-0.005	8.04	364.4	359.8
98.3	8.2		273.1	0.16	6.00	4.66	3.55	115	0.75	0.38	-0.007	9.10	362.4	
95.8	7.4		265.0	0.14	5.99	4.93	3.56	118	0.39	0.35	-0.005	7.62	362.1	359.9
85.3	7.1		241.7	0.14	6.28	4.77	3.60	119	1.03	0.42	-0.006	9.40	363.1	
141.9	8.8		399.2	0.14	6.63	5.34	3.85	125	0.72	0.42	-0.006	9.60	362.3	360.0
145.3	15.0		401.7	0.15	5.77	4.85	3.40	123	0.31	0.33	-0.009	6.98	361.2	
126.7	13.8		353.5	0.13	5.93	4.90	3.49	120	0.32	0.33	-0.009	7.02	361.5	360.0
129.7	12.4		365.0	0.14	5.61	4.61	3.41	121	0.19	0.29	-0.012	6.26	362.1	
187.6	17.7		537.8	0.14	6.68	5.16	3.68	120	0.76	0.42	-0.008	9.39	360.8	360.1
347.6	32.0		1013.0	0.15	7.25	5.81	4.16	119	0.62	0.45	-0.012	10.53	361.8	
358.4	42.0		1054.6	0.15	7.75	6.05	4.46	123	0.49	0.46	-0.011	10.58	363.0	360.1
332.9	33.4		977.5	0.15	7.45	6.08	4.34	125	0.28	0.41	-0.013	8.75	361.5	
353.5	33.8		1048.6	0.14	7.27	5.68	4.12	123	0.81	0.46	-0.013	11.53	362.3	359.9
406.4	42.1		1232.9	0.15	7.50	5.94	4.45	120	0.50	0.44	-0.016	11.19	361.8	
381.5	40.4		1153.0	0.14	6.86	5.52	4.05	121	0.33	0.38	-0.023	9.02	362.0	359.7
397.0	41.6		1231.6	0.15	6.78	5.46	4.14	120	0.46	0.40	-0.019	10.81	362.1	
599.1	65.5		1737.3	0.15	6.92	5.73	4.14	116	0.21	0.37	-0.022	9.15	362.8	359.6
497.0	60.1		1502.5	0.15	6.67	5.52	4.37	118	0.14	0.33	-0.033	9.75	361.7	
394.0	43.9		1201.8	0.16	6.96	5.83	4.41	117	0.13	0.35	-0.020	8.25	360.7	359.3
416.7	39.9		1215.7	0.16	7.66	6.12	4.30	118	0.65	0.48	-0.010	10.82	360.5	
445.8	40.0		1290.6	0.16	7.90	5.99	4.29	119	1.11	0.53	-0.011	12.90	359.3	359.2 A
319.9	33.6		947.3	0.16	6.61	5.08	3.95	119	0.60	0.40	-0.023	9.97	357.2	
381.4	34.4		1121.4	0.16	6.47	5.17	3.84	118	0.51	0.38	-0.023	10.37	357.1	359.1 A
292.7	31.6		890.1	0.16	6.08	4.85	3.61	113	0.57	0.37	-0.022	10.07	356.6	
236.3	21.1		726.6	0.15	6.33	5.01	3.54	118	0.71	0.40	-0.012	9.33	356.6	359.0 A
174.6	17.7		522.9	0.16	5.56	4.47	3.34	110	0.41	0.32	-0.018	8.20	356.5	
46.7	1.0		150.3	0.08	4.62	3.71	2.58	116	0.77	0.30	-0.011	6.72	355.5	359.0 A
61.9	-4.0		166.1	0.07	6.13	4.72	3.31	118	1.10	0.41	-0.005	8.80	355.9	
153.6	4.8		441.0	0.14	7.31	5.58	3.93	121	1.22	0.50	-0.004	11.01	354.9	358.8 A
109.8	6.0		297.4	0.13	6.45	5.32	3.55	125	0.46	0.38	-0.005	7.61	353.5	
88.8	3.7		259.5	0.13	5.38	4.30	3.09	118	0.72	0.34	-0.008	7.74	353.2	358.7 A
78.7	3.8		238.3	0.12	4.98	3.91	2.79	127	0.89	0.32	-0.008	7.51	353.0	
57.2	3.3		161.0	0.12	4.08	3.21	2.33	127	0.95	0.27	-0.007	6.59	353.1	358.7 A
55.6	2.7		201.2	0.15	4.54	3.66	2.58	131	0.46	0.27	-0.005	5.55	353.0	
599.1	65.5		1737.3	0.17	7.90	6.12	4.46	131	1.22	0.53	-0.001	12.90	365.9	360.2
14.9	-6.0		37.8	0.03	4.08	3.21	2.33	110	0.13	0.27	-0.033	5.55	353.0	358.7
179.2	15.2		525.3	0.14	6.22	4.96	3.63	120	0.58	0.38	-0.009	8.66	361.0	359.6
15.5	1.3													

IBP site June 27

Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	1.0	4.9	95.9	1.1	5.0	96.8	1.3	5.0	93.9	2.9	2.8	1.3		125.9	23.9
030	1.0	5.0	96.5	1.1	5.0	97.2	1.2	5.0	94.9	2.8	2.3	1.3		72.4	11.8
100	0.9	5.0	96.9	1.0	5.0	97.4	1.0	4.9	95.2	2.3	2.6	1.0		41.6	6.2
130	0.8	5.0	97.8	0.9	5.1	98.6	0.8	4.9	96.9	1.8	2.3	0.9		28.6	3.3
200	0.5	5.0	100.0	0.6	5.1	100.0	0.6	4.9	98.1	1.7	1.8	1.0		21.1	2.3
230	0.6	5.1	100.0	0.7	5.1	100.0	0.8	5.0	97.8	1.7	1.8	0.8		19.8	2.1
300	0.8	5.2	100.0	1.0	5.2	100.0	1.0	5.1	98.0	1.7	1.9	0.7		20.5	1.3
330	1.0	5.2	99.7	1.1	5.2	99.2	1.2	5.1	96.9	1.7	2.1	0.7		24.5	0.7
400	1.2	5.2	98.6	1.2	5.2	98.8	1.3	5.1	96.9	1.8	1.9	0.7		36.8	3.1
430	1.2	5.2	98.8	1.3	5.3	99.6	1.4	5.2	97.2	1.9	2.0	0.4		43.8	5.4
500	1.2	5.2	99.7	1.3	5.3	100.0	1.4	5.2	97.7	1.9	2.1	0.6		53.1	5.3
530	1.1	5.2	99.8	1.2	5.3	100.0	1.4	5.2	97.8	2.0	1.8	0.5		69.3	8.6
600	1.1	5.2	100.0	1.2	5.3	100.0	1.5	5.3	98.8	2.3	1.7	0.4		85.2	11.5
630	1.2	5.3	100.0	1.4	5.3	100.0	1.7	5.4	99.1	2.8	2.0	0.4		105.7	13.5
700	1.5	5.4	100.0	1.6	5.5	100.0	2.0	5.5	98.7	3.2	1.7	0.3		132.7	19.6
730	1.6	5.4	100.0	1.8	5.5	100.0	2.1	5.5	98.9	3.6	2.0	0.2		164.8	24.0
800	2.0	5.5	99.8	2.1	5.6	100.0	2.6	5.7	98.7	4.2	2.0	0.9		177.9	22.8
830	2.3	5.6	99.7	2.4	5.8	100.0	3.0	5.8	97.7	5.0	2.6	0.4		228.4	33.1
900	2.4	5.7	100.0	2.6	5.8	100.0	3.2	5.9	97.5	5.7	3.0	0.6		261.3	38.3
930	3.1	6.0	100.0	3.3	6.1	100.0	3.9	6.1	97.2	6.7	3.3	0.2		267.8	41.1
1000	3.8	6.2	99.2	4.0	6.3	99.4	4.9	6.1	90.7	6.7	3.7	0.6		362.4	56.7
1030	4.1	6.3	98.2	4.6	6.3	95.2	5.8	6.2	86.0	7.0	4.8	0.5		492.8	74.3
1100	4.9	6.6	97.9	5.5	6.5	92.3	6.6	6.2	82.7	7.0	4.6	1.4		417.9	59.9
1130	4.7	6.4	96.6	5.3	6.3	91.0	6.5	6.1	82.0	7.1	5.3	1.0		461.1	68.0
1200	3.6	6.0	97.0	4.3	5.8	90.6	5.4	5.7	82.5	6.6	5.0	1.5		396.0	56.9
1230	4.2	5.9	92.7	4.9	5.8	86.4	6.5	5.8	77.5	7.7	5.6	1.4		670.3	99.5
1300	3.6	5.6	91.6	4.2	5.6	87.0	5.7	5.6	79.1	8.3	6.0	2.3		543.7	77.8
1330	4.4	5.7	87.0	4.9	5.6	83.4	6.2	5.7	77.5	9.2	5.9	2.1		586.4	86.6
1400	5.2	5.6	81.3	5.7	5.7	79.9	7.2	5.7	73.4	10.4	6.8	2.2		515.1	76.0
1430	4.3	5.5	85.5	4.8	5.5	82.1	5.6	5.5	78.5	9.8	6.0	2.4		298.1	44.7
1500	5.6	5.7	80.1	6.0	5.7	79.3	6.9	5.7	74.6	10.2	7.2	2.7		360.1	49.7
1530	6.4	5.5	73.5	6.7	5.4	71.6	7.6	5.5	68.0	11.3	6.5	3.0		449.5	64.7
1600	7.0	5.4	70.3	7.4	5.5	69.1	8.3	5.5	65.6	11.7	6.7	3.3		411.3	60.0
1630	7.8	5.7	70.5	8.0	5.9	71.1	9.1	5.9	67.1	12.7	7.0	2.7		480.4	75.0
1700	7.8	5.9	72.4	8.1	6.0	72.6	9.3	6.1	67.6	13.5	7.6	3.5		527.9	81.4
1730	7.9	5.9	72.3	8.3	6.1	72.3	9.6	6.0	66.3	13.8	8.5	3.1		470.7	74.2
1800	7.9	5.9	72.0	8.4	6.0	70.8	10.0	6.0	64.3	14.2	8.5	3.7		583.9	95.6
1830	8.1	5.8	69.3	8.7	5.9	68.2	10.1	5.8	62.0	14.5	8.0	4.0		530.1	90.5
1900	8.1	5.7	68.1	8.7	5.7	66.3	9.8	5.7	61.4	13.5	7.8	4.3		449.8	79.7
1930	8.7	6.2	71.8	9.1	6.2	69.9	10.1	6.1	64.1	12.2	8.4	4.4		413.0	73.9
2000	8.5	5.8	68.5	8.8	5.9	68.2	9.5	5.7	63.0	11.2	8.4	4.3		301.3	55.6
2030	7.4	5.9	74.7	7.6	6.2	76.7	8.3	5.7	68.0	9.8	8.0	4.7		258.6	47.9
2100	6.7	5.8	76.8	6.9	6.0	78.8	7.4	5.5	70.1	8.6	7.4	4.7		218.4	40.4
2130	6.9	5.9	76.6	7.1	6.1	78.8	7.6	5.8	72.1	8.1	7.5	4.3		217.0	44.2
2200	6.2	5.7	78.1	6.4	5.8	78.9	7.0	5.8	75.2	7.5	7.4	4.0		196.9	41.2
2230	5.6	5.6	79.7	5.7	5.7	80.1				6.4	6.4	3.6		91.8	18.3
2300	6.0	5.5	76.7	6.0	5.6	77.1				5.7	6.5	4.1		82.5	11.9
2330	4.3	5.5	84.3	4.3	5.5	84.2				5.1	5.6	3.5		63.3	12.0
Max	8.7	6.6	100.0	9.1	6.5	100.0	10.1	6.2	99.1	14.5	8.5	4.7		670.3	99.5
Min	0.5	4.9	68.1	0.6	5.0	66.3	0.6	4.9	61.4	1.7	1.7	0.2		19.8	0.7
Ave	4.1	5.6	88.5	4.4	5.6	87.7	5.0	5.6	83.7	6.8	4.8	2.0		267.3	41.5
Sum														23.1	3.6

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
77.8	3.3		248.9	0.19	4.45	3.53	2.58	133	0.46	0.26	-0.010	5.93	353.8	358.7 A
36.4	2.4		149.3	0.16	4.11	3.41	2.35	140	0.34	0.23	-0.006	4.62	354.4	
9.8	-1.6		98.4	0.15	3.88	3.11	2.31	146	0.47	0.23	-0.003	4.96	353.4	358.9 D
4.5	-3.4		72.8	0.11	3.90	3.13	2.21	145	0.47	0.23	0.001	4.51	355.2	
18.6	-1.6		50.3	0.11	3.35	2.67	1.89	146	0.36	0.19	-0.007	3.87	355.6	359.2
19.8	-0.1		46.5	0.10	3.19	2.51	1.85	153	0.36	0.18	-0.009	3.89	353.7	
24.1	1.7		45.2	0.06	2.95	2.26	1.71	149	0.71	0.18	-0.011	4.58	353.3	359.4
26.6	2.7		54.5	0.03	2.83	2.29	1.70	155	0.28	0.16	-0.010	3.55	355.0	
32.8	3.7		79.4	0.09	2.67	2.06	1.49	169	0.60	0.16	-0.010	3.68	355.1	359.8
32.2	4.6		99.8	0.12	2.00	1.54	1.17	189	0.64	0.12	-0.029	3.46	355.8	
34.6	4.4		121.4	0.10	1.88	1.48	1.02	179	0.60	0.12	-0.020	2.89	355.1	359.9
46.6	5.8		155.8	0.12	1.33	1.07	0.75	201	0.56	0.08	-0.053	2.75	355.7	
62.2	9.0		191.8	0.14	1.28	1.01	0.78	194	0.21	0.07	-0.187	3.58	355.5	359.7
78.0	12.6		236.4	0.13	0.87	0.75	0.63	195	0.01	0.03	-1.374	5.96	355.3	
88.7	15.5		301.9	0.15	0.90	0.74	0.61	247	0.42	0.05	-0.678	5.60	356.8	359.7
105.2	17.1		380.1	0.15	0.70	0.61	0.60	200		0.02	-5.970	9.19	357.0	
133.0	22.7		396.2	0.13	1.22	0.98	0.73	215	0.20	0.06	-0.263	4.07	355.7	360.1 D
168.9	29.4		512.7	0.15	0.93	0.91	0.73	283	0.02	0.04	-0.882	5.39	355.6	
195.7	35.4		591.6	0.15	0.99	0.89	0.69	155	0.03	0.04	-0.562	5.33	356.2	359.8 D
190.8	40.9		617.0	0.15	0.70	0.59	0.60	208	0.02	0.03	-3.255	10.00	357.7	
260.1	42.1		879.5	0.16	0.91	0.79	0.64	248	0.02	0.04	-1.151	7.25	358.7	360.3 D
327.5	57.0		1163.0	0.15	1.73	1.44	1.07	123	0.26	0.10	-0.229	6.81	359.3	
255.3	55.5		998.2	0.14	1.22	1.03	0.82	93	0.04	0.05	-0.830	8.06	358.1	359.8 D
301.1	56.3		1103.7	0.15	1.83	1.55	1.17	148	0.32	0.11	-0.188	6.81	358.5	
249.2	41.5		965.3	0.14	2.41	2.15	1.32	331	0.56	0.16	-0.100	6.63	359.6	360.3 A
461.5	77.0		1548.8	0.15	2.12	1.90	1.43	125	0.04	0.10	-0.337	8.13	358.7	
356.4	68.7		1293.1	0.14	2.18	1.82	1.36	264	0.11	0.11	-0.274	7.56	358.9	360.1 A
400.9	69.6		1398.0	0.15	1.92	1.62	1.20	213	0.24	0.11	-0.212	6.95	358.2	
369.5	66.9		1252.4	0.15	2.33	2.11	1.65	144	0.04	0.11	-0.212	7.03	360.6	359.9 A
214.2	38.2		721.5	0.15	1.46	1.11	0.88	111	0.42	0.08	-0.480	8.42		
258.9	44.0		867.1	0.14	1.70	1.28	1.00	183	0.54	0.11	-0.162	5.62	354.2	359.6
317.0	55.6		1087.4	0.14	1.08	0.93	0.65	239		0.11	-0.169	5.59	354.2	
283.4	54.7		997.1	0.15	1.29	1.19	0.95	251	0.07	0.07	-0.457	6.16	354.4	359.8 A
333.4	64.2		1103.4	0.16	1.81	1.52	1.39	65	0.36	0.11	-0.264	7.79	353.7	
378.0	67.9		1246.8	0.15	1.92	1.56	1.36	68	0.10	0.10	-0.234	6.26	355.0	359.4 A
332.9	63.5		1082.6	0.16	2.47	2.19	1.74	89	0.04	0.11	-0.170	6.39	353.9	
412.3	63.7		1344.3	0.16	3.08	2.68	2.08	100	0.10	0.15	-0.118	7.15	353.8	359.4 A
354.2	58.4		1249.5	0.17	3.20	2.73	2.14	93	0.16	0.17	-0.088	6.98	353.4	
289.7	44.8		1086.1	0.18	3.61	3.03	2.31	103	0.23	0.20	-0.053	6.85	353.2	359.0 A
263.6	39.0		1002.8	0.18	4.17	3.42	2.48	111	0.32	0.24	-0.036	6.81	353.5	
172.3	26.8		753.2	0.19	3.92	3.06	2.43	101	0.40	0.23	-0.037	7.12	353.4	358.8
144.9	16.9		637.5	0.19	3.78	3.18	2.33	89	0.23	0.21	-0.032	5.56	352.8	
119.3	10.3		544.8	0.19	3.91	3.36	2.39	100	0.27	0.22	-0.023	5.33	353.3	358.6
115.5	8.2		543.7	0.20	3.50	2.98	2.06	101	0.30	0.20	-0.024	5.32	352.3	
96.1	6.5		479.7	0.21	3.35	2.83	2.07	101	0.25	0.19	-0.032	5.17	352.7	358.7
12.1	-0.5		236.2	0.20	3.10	2.32	1.78	116	1.40	0.22	-0.004	5.15	352.7	
8.3	-2.7		209.1	0.14	3.19	2.27	1.71	109	1.99	0.24	0.004	5.28	352.5	358.7
-1.3	-3.8		164.4	0.19	2.56	2.10	1.60	94	0.53	0.16	0.003	3.33	352.5	
461.5	77.0		1548.8	0.21	4.45	3.53	2.58	331	1.99	0.26	0.00	10.00	360.6	360.3
-1.3	-3.8		45.2	0.03	0.70	0.59	0.60	65	0.01	0.02	-5.97	2.75	352.3	358.6
176.5	29.1		633.5	0.15	2.37	1.95	1.47	157	0.35	0.14	-0.40	5.82	355.3	359.5
15.3	2.5													

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	2.8	5.3	89.9	2.8	5.3	90.9	2.7	2.9	49.6	4.3	5.3	3.7		48.8	7.0
030	2.7	5.2	89.5	2.8	5.2	89.7	2.9			4.4	5.1	3.3		47.2	6.9
100	2.1	5.1	91.4	2.2	5.1	91.6	2.1			3.9	4.9	2.8		40.2	8.0
130	2.3	5.1	90.8	2.4	5.2	90.8	2.4			3.6	4.2	3.2		43.2	5.8
200	2.7	5.2	90.5	2.8	5.2	89.8	2.8			3.6	4.6	2.5		51.8	8.6
230	2.5	5.2	91.0	2.5	5.2	91.3	2.5			3.5	3.9	2.6		43.5	7.5
300	2.3	5.2	91.3	2.4	5.2	91.6	2.4			3.1	4.3	2.5		53.8	11.3
330	3.4	5.4	88.5	3.5	5.4	88.1	3.4			3.1	3.5	2.3		65.0	13.7
400	3.6	5.4	87.7	3.6	5.5	88.6	3.4			2.9	3.3	2.2		78.6	18.0
430	4.1	5.2	81.7	4.1	5.3	82.5	3.8			2.6	3.1	2.4		76.7	14.8
500	4.4	4.8	73.6	4.4	4.9	74.5	4.2			2.4	3.2	1.4		105.6	24.8
530	4.4	4.9	74.9	4.4	4.9	75.5	4.2			2.5	2.8	1.8		99.5	19.4
600	5.6	4.9	70.0	5.7	5.0	70.0	5.6			2.6	2.6	1.4		152.2	32.1
630	6.7	4.7	61.6	6.9	4.7	61.5	6.8			2.9	2.3	1.1		184.0	39.6
700	7.2	4.5	57.2	7.3	4.5	57.3	7.4			3.2	2.3	1.5		215.0	41.8
730	7.4	4.3	54.6	7.6	4.4	54.5	7.7			3.4	2.8	1.3		250.2	47.0
800	8.0	4.4	53.1	8.3	4.4	52.7	8.5			3.7	3.0	1.1		287.2	51.8
830	7.7	4.8	60.0	7.9	4.8	59.1	8.3			4.1	2.3	1.1		329.0	59.1
900	8.1	5.1	61.2	8.4	5.1	60.5	8.9			4.5	2.9	1.4		373.0	62.3
930	8.6	5.1	59.4	9.0	5.2	58.9	9.5			4.9	3.2	1.2		418.7	67.3
1000	9.5	4.9	54.0	10.0	5.0	53.1	10.6			5.4	3.6	1.4		461.8	71.3
1030	10.0	4.6	49.0	10.4	4.6	48.1	11.1			5.7	3.8	0.7		503.4	79.1
1100	10.6	5.0	51.0	11.1	5.0	49.4	11.9			6.3	4.3	1.1		541.4	82.5
1130	10.6	5.2	53.2	11.1	5.1	51.1	12.2			7.0	4.5	1.4		571.3	85.3
1200	11.2	5.2	51.3	11.7	5.1	49.4	12.9			7.7	4.6	1.7		599.2	88.7
1230	11.0	5.4	54.4	11.6	5.3	51.3	13.0			8.7	5.3	2.1		624.4	89.8
1300	10.8	5.2	53.2	11.4	5.1	50.2	12.9			9.5	6.0	1.9		645.1	94.5
1330	11.1	5.4	53.4	11.7	5.3	50.4	13.4			10.4	6.7	2.3		658.3	94.0
1400	10.8	5.3	53.3	11.4	5.1	50.1	13.1			11.3	6.7	2.3		668.3	98.1
1430	10.9	5.3	53.7	11.5	5.2	50.7	13.2			12.3	7.6	2.4		669.1	97.0
1500	11.5	5.2	50.5	12.1	5.1	47.6	13.8			13.4	7.4	3.4		665.1	94.7
1530	13.1	5.3	46.6	13.7	5.2	44.1	15.1			14.7	8.3	2.9		649.8	92.1
1600	15.0	5.7	44.4	15.6	5.5	41.3	16.8			15.9	8.2	3.5		631.1	92.3
1630	15.4	6.1	46.3	16.0	5.8	43.1	17.2			16.5	8.5	4.0		606.6	90.4
1700	13.8	6.3	52.6	14.3	6.4	52.0	15.4			16.3	8.7	4.3		583.9	93.3
1730	13.2	6.0	52.3	13.7	6.0	50.7	14.8			15.7	8.7	4.6		552.9	88.4
1800	13.3	6.0	52.2	13.8	6.1	51.2	15.0			15.7	8.9	5.3		545.1	87.9
1830	13.8	6.3	52.7	14.3	6.4	51.8	15.4			15.6	9.3	5.2		482.1	78.5
1900	11.9	6.3	59.7	12.2	6.5	59.9	12.9			14.0	9.3	5.5		303.2	49.6
1930	13.5	6.8	58.6	13.8	6.8	57.6	13.9			11.9	9.1	5.4		205.1	31.2
2000	11.5	7.0	67.3	11.7	7.0	66.7	11.8			11.1	8.9	4.9		138.9	21.2
2030	8.0	6.0	73.1	8.3	6.1	72.5	8.6			10.3	8.5	5.1		173.2	28.2
2100	7.5	5.9	74.2	7.8	6.0	73.2	8.1			9.4	8.4	5.2		150.7	21.6
2130	8.3	6.0	71.9	8.5	6.1	71.4	8.8			9.1	7.7	4.8		133.5	20.8
2200	8.8	6.2	72.1	9.0	6.3	71.2	9.2			8.9	7.6	4.9		111.6	15.3
2230	8.1	6.1	73.5	8.3	6.1	73.0	8.5			8.4	7.4	4.4		97.4	15.6
2300	7.8	6.1	74.9	8.0	6.1	73.8	8.1			8.0	7.3	4.7		76.4	9.8
2330	7.4	6.0	76.2	7.5	6.1	76.0	7.6			7.5	7.3	4.7		52.9	4.8
Max	15.4	7.0	91.4	16.0	7.0	91.6	17.2	2.9	49.6	16.5	9.3	5.5		669.1	98.1
Min	2.1	4.3	44.4	2.2	4.4	41.3	2.1	2.9	49.6	2.4	2.3	0.7		40.2	4.8
Ave	8.4	5.4	65.5	8.7	5.4	64.6	9.3	2.9	49.6	7.8	5.7	2.9		313.8	49.2
Sum														27.1	4.3

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
3.0	-7.8		122.1	0.14	2.66	1.94	1.45	94		0.22	0.002	4.91	352.8	358.8
23.1	-1.7		109.1	0.15	2.50	2.04	1.53	67	0.89	0.18	-0.008	4.00	352.6	
5.3	-5.1		92.1	0.20	3.32	2.43	1.82	74	0.86	0.22	-0.002	4.56	351.9	358.9
18.4	-3.7		95.6	0.13	2.14	1.71	1.24	50	0.78	0.15	-0.009	3.38	352.7	
17.6	-0.7		113.0	0.17	1.29	0.99	0.64	116	1.69	0.10	-0.019	2.70	352.9	359.2 V
9.7	-1.2		93.6	0.17	1.99	1.60	0.93	314		0.18	-0.002	4.05	353.6	
-0.7	-3.7		96.1	0.21	1.91	1.48	0.95	280		0.16	-0.001	3.39	354.4	359.3 V
3.6	-1.1		126.1	0.21	2.23	1.74	1.30	260		0.19	-0.001	4.34	354.2	
-21.2	-3.6		155.6	0.23	2.46	1.83	1.26	250		0.22	0.008	5.15	354.0	358.8 V
-20.9	-5.3		163.8	0.19	2.76	1.97	1.49	271		0.23	0.014	4.84	352.9	
-1.4	-4.1		223.1	0.24	3.22	2.41	1.74	272		0.25	0.006	5.69	353.3	357.6 V
4.6	-1.6		229.4	0.20	2.76	2.16	1.74	248	0.78	0.18	0.011	3.71	352.0	
36.8	1.6		346.2	0.21	3.41	2.72	1.85	235	0.72	0.22	-0.002	4.47	351.2	356.7 D
60.7	5.9		426.1	0.22	3.82	3.10	2.15	251	1.67	0.29	-0.002	6.45	352.1	
85.2	9.3		505.8	0.20	4.19	3.37	2.58	251	0.64	0.26	-0.007	5.99	351.8	356.4 D
117.1	12.2		595.0	0.19	5.12	4.00	3.02	247	1.23	0.36	-0.007	7.63	351.8	
150.7	17.8		687.1	0.18	5.83	4.60	3.39	253	1.31	0.41	-0.007	8.73	352.2	358.4 V
186.3	22.7		789.6	0.18	5.92	4.93	3.69	258	1.07	0.41	-0.011	8.49	352.9	
222.7	29.0		894.6	0.17	6.03	4.83	3.62	254	1.18	0.41	-0.014	8.90	353.1	357.6 V
260.3	35.7		998.1	0.16	6.26	5.10	3.81	245	0.40	0.36	-0.019	8.60	353.0	
292.8	41.9		1090.4	0.15	5.83	4.56	3.61	246	0.52	0.35	-0.022	8.88	352.7	357.1 D
326.6	46.8		1177.9	0.16	6.27	5.06	3.97	250	0.56	0.38	-0.019	9.22	352.9	
353.8	55.6		1257.8	0.15	5.87	4.70	3.67	258	0.76	0.37	-0.028	9.06	352.5	358.0 V
373.5	65.1		1327.9	0.15	4.98	4.11	3.23	271	0.74	0.32	-0.041	9.28	352.8	
392.0	71.1		1393.1	0.15	4.61	3.85	2.99	267	0.42	0.27	-0.048	9.16	352.7	357.9 A
404.1	76.0		1446.3	0.14	4.02	3.39	2.64	278	0.38	0.24	-0.058	8.48	353.2	
419.1	77.6		1491.3	0.15	3.84	3.33	2.36	290	0.21	0.21	-0.065	7.49	354.8	357.7 A
428.2	81.0		1524.2	0.14	3.49	2.93	2.16	290	0.36	0.21	-0.072	7.58	354.6	
435.4	80.9		1546.6	0.15	3.40	2.94	2.13	294	0.27	0.20	-0.075	7.62	355.2	357.6 A
436.9	82.2		1556.5	0.15	3.02	2.57	1.90	290	0.23	0.17	-0.099	7.45	355.4	
431.7	84.1		1551.2	0.14	2.50	2.10	1.73	291	0.37	0.16	-0.132	7.45	355.1	357.6 A
419.6	87.4		1528.1	0.14	1.93	1.90	1.55	277	0.10	0.11	-0.285	7.23	354.8	
407.0	87.3		1495.0	0.15	2.07	1.87	1.48	272	0.71	0.15	-0.127	6.66	354.0	357.4
395.5	83.0		1446.9	0.15	2.03	1.85	1.31	309	0.81	0.15	-0.097	6.63	355.7	
392.7	68.6		1389.1	0.16	3.65	3.26	2.56	97	0.05	0.17	-0.078	6.31	354.4	357.3
383.2	58.8		1334.4	0.16	4.02	3.47	2.56	106	0.19	0.22	-0.050	6.84	352.6	
380.0	57.9		1305.6	0.16	4.14	3.49	2.66	93	0.16	0.22	-0.052	6.87	351.2	356.7 D
338.1	55.7		1160.9	0.16	3.40	2.92	2.24	89	0.12	0.17	-0.072	6.36	350.5	
197.3	36.7		729.6	0.16	3.58	2.93	2.21	65	0.16	0.18	-0.046	5.23	350.5	355.7 D
117.8	23.6		516.3	0.15	3.37	2.73	1.85	97	0.63	0.21	-0.013	4.85	349.0	
96.9	19.3		337.8	0.15	2.73	2.12	1.61	49	0.60	0.17	-0.014	4.32	349.8	355.4 A
123.4	15.9		410.8	0.16	3.33	2.57	2.05	19	0.49	0.20	-0.031	6.10	349.9	
109.8	12.8		356.0	0.14	3.05	2.67	1.99	23	0.06	0.14	-0.047	4.16	349.2	355.3 A
97.8	13.3		318.0	0.16	3.28	2.74	2.08	34	0.23	0.17	-0.038	5.05	348.3	
78.5	14.1		265.6	0.14	2.21	1.77	1.45	24	0.14	0.11	-0.060	3.93	348.4	355.2 A
67.2	11.9		228.8	0.16	2.19	1.77	1.27	30	0.49	0.14	-0.024	3.73	349.4	
50.9	9.9		178.7	0.13	1.68	1.48	1.12	21	0.10	0.08	-0.048	2.76	349.5	355.6 D
37.6	7.5		124.3	0.09	1.55	1.25	0.94	36	0.15	0.08	-0.065	2.56	350.0	
436.9	87.4		1556.5	0.24	6.27	5.10	3.97	314	1.69	0.41	0.014	9.28	355.7	359.3
-21.2	-7.8		92.1	0.09	1.29	0.99	0.64	19	0.05	0.08	-0.285	2.56	348.3	355.2
190.6	31.7		736.5	0.16	3.45	2.82	2.12	187	0.57	0.22	-0.039	6.07	352.4	357.3
16.5	2.7													

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	8.1	6.4	76.8	8.1	6.4	77.4	8.2			7.2	7.0	4.6		49.0	4.1
030	8.4	6.7	79.0	8.4	6.8	79.8	8.5			7.0	6.4	4.5		45.7	4.5
100	8.3	6.7	80.0	8.3	6.8	81.0	8.1			6.6	6.1	4.1		41.4	4.9
130	7.4	6.6	83.8	7.2	6.6	84.9	6.6			5.6	5.8	4.2		40.5	5.4
200	7.5	6.8	85.2	7.4	6.8	86.2	7.4			5.4	6.2	3.8		65.5	14.6
230	8.5	6.9	81.5	8.5	7.0	82.6	8.7			5.7	5.7	3.4		68.1	17.0
300	8.9	7.1	81.1	9.0	7.2	82.0	9.1			5.9	5.9	3.1		63.2	14.5
330	8.9	7.2	81.9	8.9	7.2	83.0	8.7			5.8	5.2	3.1		40.2	6.2
400	9.3	7.3	81.6	9.0	7.4	83.8	8.4			5.5	5.5	2.9		44.7	6.0
430	9.3	7.2	80.1	8.9	7.4	84.9	7.0			5.0	5.4	3.1		40.2	3.0
500	8.7	7.4	85.9	8.5	7.6	89.3	7.7			4.5	4.8	2.9		102.7	19.6
530	9.2	7.3	82.2	9.1	7.4	83.5	8.9			5.0	4.5	2.9		78.7	11.6
600	9.5	7.4	81.9	9.5	7.5	82.9	9.5			5.3	4.7	2.7		91.7	12.9
630	9.0	7.5	85.1	9.0	7.6	86.4	8.9			5.4	4.6	2.6		76.1	9.6
700	9.5	7.4	81.1	9.7	7.5	81.7	9.9			5.4	4.5	2.3		189.5	33.9
730	11.8	7.2	68.5	11.8	7.3	69.3	12.2			6.2	4.7	1.9		238.5	41.3
800	12.4	7.0	64.4	12.5	7.1	64.6	13.0			6.9	4.7	2.2		277.8	44.7
830	11.5	7.4	71.4	11.7	7.4	71.0	12.4			7.2	5.3	2.1		320.3	52.6
900	14.0	7.4	61.5	14.1	7.4	61.2	15.0			8.0	5.2	1.7		359.7	57.9
930	15.3	6.1	47.0	15.5	6.1	46.0	16.5			8.4	5.5	2.3		406.7	63.7
1000	14.5	6.8	54.6	14.8	6.7	53.3	15.8			8.8	5.7	2.3		448.6	70.1
1030	15.9	5.8	42.9	16.2	5.7	41.8	17.4			9.2	6.1	2.3		490.0	75.2
1100	16.4	5.6	40.3	16.7	5.4	38.4	18.0			9.3	5.9	2.0		525.9	78.5
1130	16.9	6.2	43.0	17.2	6.1	41.6	18.6	1.8	11.6	10.1	7.4	2.8		557.1	81.2
1200	17.3	6.8	45.9	17.6	6.6	44.0	19.0	7.0	42.9	11.0	7.7	2.5		589.8	88.1
1230	17.6	6.6	44.1	17.9	6.4	42.2	19.3	6.7	40.5	11.6	7.7	3.8		611.2	89.3
1300	17.5	6.2	42.0	17.8	6.1	40.7	19.1	6.4	39.1	11.7	8.4	3.8		637.7	92.1
1330	17.3	6.8	46.6	17.7	6.8	45.2	19.1	7.0	42.5	12.3	8.8	4.0		651.9	94.2
1400	16.5	6.7	47.9	16.9	6.6	45.9	18.5	6.8	43.2	13.1	8.9	4.1		662.6	96.2
1430	15.7	6.8	51.2	16.1	6.7	49.1	18.0	6.9	45.2	14.0	9.4	4.1		662.6	97.8
1500	15.4	6.6	50.4	15.8	6.4	47.9	17.7	6.6	43.8	14.6	9.6	4.8		657.6	94.6
1530	15.7	6.4	47.6	16.1	6.2	45.7	17.9	6.4	42.4	15.2	9.7	4.6		643.0	93.3
1600	15.4	6.3	48.3	15.9	6.2	46.1	17.7	6.4	42.3	15.8	9.2	5.3		623.6	92.7
1630	15.3	6.5	49.6	15.7	6.4	47.6	17.5	6.5	43.6	16.4	9.5	5.2		598.1	91.4
1700	15.0	6.5	51.0	15.4	6.4	48.7	17.2	6.6	45.1	16.7	9.7	5.9		569.2	88.2
1730	14.7	6.4	51.0	15.1	6.3	49.1	16.8	6.6	46.1	16.6	9.9	5.4		535.2	88.0
1800	14.8	6.1	48.4	15.1	6.0	46.9	16.7	6.3	44.5	16.8	10.3	5.6		499.1	82.8
1830	15.0	6.0	46.8	15.1	5.8	45.3	16.3	6.2	44.5	16.9	9.8	5.7		463.1	79.8
1900	14.3	5.7	46.4	14.5	5.5	44.4	15.7	5.8	43.2	16.3	10.7	6.0		428.1	76.4
1930	13.8	5.5	46.3	14.0	5.3	44.4	15.1	5.7	44.3	15.2	10.1	6.0		352.0	61.1
2000	13.5	5.4	46.7	13.6	5.3	45.0	14.3	5.6	45.7	14.0	10.7	6.2		227.9	35.5
2030	13.2	5.8	50.7	13.3	5.8	50.6	14.2	6.1	50.1	13.5	10.4	6.1		276.8	49.5
2100	13.0	5.4	47.7	13.1	5.3	46.7	13.5	5.6	47.5	12.8	10.1	6.3		162.4	25.6
2130	11.7	5.9	56.7	11.7	5.9	56.2	11.9	6.1	57.2	11.0	9.7	6.2		87.1	12.6
2200	11.4	5.9	57.3	11.4	5.8	56.9	11.7	6.1	58.3	10.3	9.4	6.1		75.8	9.9
2230	11.4	6.6	64.9	11.4	6.8	66.9	11.1	7.5	74.7	9.7	9.1	6.0		68.0	8.1
2300	10.9	7.3	73.4	10.7	7.7	78.7	10.4	8.3	86.6	9.1	8.7	5.9		54.1	5.8
2330	11.1	6.9	69.2	11.0	7.3	73.7	10.7	8.3	84.7	9.0	8.5	5.8		33.8	3.6
Max	17.6	7.5	85.9	17.9	7.7	89.3	19.3	8.3	86.6	16.9	10.7	6.3		662.6	97.8
Min	7.4	5.4	40.3	7.2	5.3	38.4	6.6	1.8	11.6	4.5	4.5	1.7		33.8	3.0
Ave	12.6	6.6	61.5	12.8	6.6	61.3	13.4	6.4	48.4	10.1	7.5	4.1		309.0	47.7
Sum														26.7	4.1

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
31.1	7.5		115.2	0.08	0.89	0.62	0.45	57	1.19	0.06	-0.120	2.40	351.2	355.2	A
24.8	7.7		106.0	0.10	0.70	0.52	0.40	71	0.68	0.05	-0.104	1.89	351.4		
6.9	5.3		98.6	0.12	0.59	0.49	0.32	61		0.05	0.072	1.20	352.6	355.0	A
-5.3	-2.9		101.8	0.13	1.04	0.48	0.31	88		0.12	0.321	1.69	354.9		
10.4	0.2		130.5	0.22	0.26	0.28	0.32	94		0.12	0.345		359.0	355.1	V
13.6	5.5		123.4	0.25	0.71	0.57	0.37	134	0.88	0.05	-0.108	2.19	354.2		
16.2	7.7		111.4	0.23	0.67	0.53	0.35	150	1.33	0.05	-0.110	2.46	354.0	354.9	D
12.4	7.4		89.7	0.15	0.31	0.22	0.26	150	1.33	0.05	0.590		355.7		
14.0	5.4		106.2	0.13	0.21	0.22	0.29	198	1.33	0.05	1.879		358.4	355.3	V
-9.0	0.3		109.8	0.07	0.16	0.26	0.30	167	1.33	0.05	2.280		357.9		
20.4	-0.9		226.4	0.19	0.17	0.22	0.23	230	1.33	0.05	5.947		369.4	355.9	V
15.3	6.2		192.4	0.15	0.74	0.49	0.32	288		0.07	0.191	1.41	361.9		
36.0	8.9		220.3	0.14	0.23	0.26	0.27	329		0.07	0.076		359.6	355.5	V
15.3	10.0		206.5	0.13	0.40	0.26	0.27	184	1.93	0.03			359.1		
79.4	8.4		475.0	0.18	0.24	0.30	0.33	210	1.93	0.03	-0.669		358.2	356.5	V
110.4	15.6		600.0	0.17	0.26	0.27	0.38	225	1.93	0.03	-0.865		355.5		
138.1	23.1		693.6	0.16	0.54	0.50	0.47	227	0.00	0.02			352.9		C
171.6	30.1		795.0	0.16	0.86	0.89	0.56	238	1.23	0.07	-0.279	5.45	353.5		
199.9	40.8		898.0	0.16	0.87	0.74	0.55	219	0.83	0.06	-0.461	6.30	352.1		C
231.2	50.1		993.9	0.16	2.32	2.04	1.56	268	0.43	0.15	-0.086	6.14	351.5		
265.7	56.8		1086.5	0.16	2.04	1.76	1.35	229	0.16	0.11	-0.146	6.32	353.5		C
295.8	60.8		1172.9	0.15	3.19	2.76	2.08	270	0.14	0.16	-0.096	6.76	350.8		
324.7	65.7		1248.5	0.15	3.46	2.82	2.30	255	0.36	0.20	-0.083	8.47	350.2		C
349.0	71.5		1323.1	0.15	3.24	2.63	1.91	225	0.26	0.18	-0.096	7.13	350.6		
374.6	78.4		1400.5	0.15	3.15	2.66	1.92	219	0.25	0.17	-0.080	7.19	350.9		C
399.0	76.9		1474.3	0.15	5.03	4.35	3.37	263	0.19	0.26	-0.062	9.07	349.8		
420.8	72.0		1488.4	0.14	6.01	4.93	3.80	264	0.46	0.35	-0.048	9.32	349.6		C
429.5	74.7		1518.0	0.14	5.72	4.68	3.52	263	0.51	0.34	-0.044	9.99	350.4		
437.0	74.0		1537.5	0.15	5.46	4.53	3.24	277	0.29	0.30	-0.035	8.83	350.1		C
431.6	79.4		1542.3	0.15	4.22	3.47	2.53	289	0.30	0.24	-0.060	8.61	352.0		
436.4	75.5		1533.1	0.14	4.70	3.80	2.69	289	0.42	0.28	-0.047	9.05	353.4	354.3	A
430.0	73.5		1489.8	0.15	4.49	3.76	2.57	290	0.43	0.27	-0.047	8.74	352.7		
419.3	71.8		1472.6	0.15	4.21	3.53	2.48	291	0.35	0.25	-0.055	8.68	353.5	354.4	A
402.6	70.7		1425.3	0.15	3.68	3.13	2.35	288	0.11	0.18	-0.108	8.15	350.8		
383.3	67.1		1364.3	0.16	3.38	3.01	2.03	299	0.42	0.21	-0.067	8.43	350.2	354.5	V
362.1	61.6		1297.2	0.16	3.17	2.58	1.81	312	0.45	0.19	-0.084	7.86	350.5		
333.2	56.6		1224.1	0.17	2.25	1.93	1.35	323	0.43	0.14	-0.131	7.43	351.1	355.6	D
303.7	54.3		1146.4	0.17	2.09	1.81	1.10	320	1.19	0.16	-0.075	6.58	351.0		
281.8	47.0		1063.5	0.18	2.34	1.94	1.18	318	0.92	0.16	-0.128	6.65	350.7	355.2	
237.6	41.6		822.0	0.17	2.39	2.03	1.26	266	0.79	0.16	-0.078	6.33	351.2		
147.8	30.6		560.3	0.16	1.25	0.88	0.84	81	0.35	0.07	-1.420	8.47	350.7	355.1	
182.0	29.2		677.2	0.18	2.03	1.81	1.48	64	0.01	0.08	-0.297	5.71	349.6		
87.0	22.8		390.9	0.16	1.49	1.13	0.86	64	0.41	0.08	-0.235	4.09	349.5	355.1	
44.8	9.9		210.3	0.14	2.16	1.63	1.15	165	0.91	0.14	-0.024	3.43	348.3		
42.3	10.5		185.0	0.13	0.76	0.54	0.58	125	1.84	0.06			349.8	355.7	V
22.0	7.6		173.7	0.12	0.47	0.38	0.31	206	0.74	0.03	7.508	0.22	351.4		
23.4	6.5		134.6	0.11	0.41	0.20	0.29	117		0.09	5.789		357.4	357.4	V
21.6	8.6		84.2	0.11	0.66	0.45	0.32	239		0.05	0.697	0.80	358.4		
437.0	79.4		1542.3	0.25	6.01	4.93	3.80	329	1.93	0.35	7.508	9.99	369.4	357.4	
-9.0	-2.9		84.2	0.07	0.16	0.20	0.23	57	0.00	0.02	-1.420	0.22	348.3	354.3	
187.9	35.3		738.3	0.15	1.99	1.65	1.23	212	0.74	0.13	0.430	5.93	353.4	355.3	
16.2	3.0														

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	11.0	7.2	72.1	10.9	7.3	73.9	10.8	7.8	78.9	8.7	8.3	5.6		49.4	7.6
030	10.8	6.9	70.5	10.6	7.3	74.4	10.4	7.7	80.2	8.5	8.0	5.4		37.8	4.3
100	10.6	6.3	64.8	10.4	6.5	67.5	9.8	7.0	75.7	7.9	7.7	5.3		21.2	1.1
130	10.3	6.1	63.8	9.8	6.3	68.5	7.9	6.8	83.4	6.9	7.4	5.2		34.1	3.4
200	8.7	7.4	85.2	8.2	7.4	88.3	6.4	6.7	90.2	5.9	7.1	5.0		26.4	2.2
230	8.3	6.9	82.8	7.9	7.1	87.1	6.2	6.7	91.2	5.5	6.7	4.9		19.0	0.8
300	8.1	6.1	73.3	8.0	6.2	75.1	7.7	6.4	78.6	6.0	6.5	4.7		15.5	0.4
330	6.6	6.0	79.2	6.5	6.0	80.6	6.2	6.1	82.8	5.5	6.3	4.6		23.3	3.0
400	5.2	5.9	85.3	5.2	5.9	86.2	5.0	5.9	87.6	5.2	6.0	4.4		34.1	4.7
430	5.0	5.9	87.6	4.9	6.0	88.4	4.7	6.0	89.6	4.6	5.7	4.2		53.6	8.6
500	4.9	5.9	87.5	4.9	5.9	87.9	4.8	5.9	88.9	4.3	5.4	3.9		85.6	17.0
530	4.5	5.9	89.6	4.6	5.9	89.8	4.7	5.9	89.5	4.1	5.1	3.7		130.2	27.1
600	4.1	5.8	90.9	4.2	5.9	90.9	4.4	5.9	90.6	4.1	4.9	3.6		159.4	32.2
630	3.7	5.6	90.7	3.8	5.6	90.5	4.1	5.7	89.5	4.0	4.7	3.4		189.2	37.8
700	2.8	5.3	91.1	3.0	5.4	90.5	3.5	5.4	89.0	3.9	4.5	3.3		222.8	43.2
730	2.2	5.3	94.9	2.4	5.4	95.0	3.1	5.5	92.3	4.1	4.4	3.2		246.8	44.3
800	1.9	5.4	99.0	2.1	5.6	99.5	2.9	5.7	96.2	4.7	4.4	3.0		276.5	47.2
830	1.5	5.4	100.0	1.7	5.5	100.0	2.4	5.6	97.6	4.8	4.4	2.9		188.9	28.9
900	1.8	5.4	98.2	2.1	5.5	98.8	3.0	5.6	94.3	5.0	4.4	2.8		259.0	40.0
930	1.5	5.3	98.9	1.8	5.4	98.9	2.6	5.5	95.2	5.3	4.4	2.8		236.2	36.7
1000	1.2	5.2	99.5	1.4	5.3	100.0	2.3	5.5	97.3	5.4	4.4	2.7		224.2	34.1
1030	1.1	5.1	98.3	1.3	5.2	98.9	2.4	5.3	94.2	5.4	4.4	2.7		264.9	40.3
1100	1.2	5.1	97.3	1.5	5.2	97.7	2.9	5.3	90.4	6.0	4.5	2.6		326.7	49.7
1130	1.4	5.1	96.8	1.7	5.3	96.9	3.3	5.3	88.8	6.8	4.7	2.6		361.6	55.2
1200	1.4	5.1	96.0	1.8	5.1	94.1	3.1	5.3	88.3	7.1	4.8	2.6		334.2	51.6
1230	1.4	5.1	96.0	1.8	5.1	93.7	3.1	5.3	88.1	7.2	4.9	2.7		349.2	53.4
1300	1.5	5.0	94.0	1.8	5.1	94.0	3.1	5.3	88.5	7.2	4.9	2.7		331.1	50.9
1330	1.5	5.0	93.2	1.9	5.1	92.6	3.2	5.2	87.4	7.2	5.0	2.8		345.9	53.5
1400	1.5	4.9	92.6	1.8	5.0	91.4	3.1	5.2	87.5	7.3	5.1	2.8		373.9	57.5
1430	1.3	4.9	92.8	1.7	5.0	92.2	3.2	5.2	86.9	7.8	5.2	2.8		417.0	64.3
1500	1.7	4.9	89.7	2.0	5.0	89.6	3.3	5.2	86.1	8.5	5.5	2.9		414.3	64.4
1530	1.5	4.8	88.6	1.9	4.9	88.8	3.4	5.2	85.2	9.1	5.7	3.0		481.3	75.0
1600	1.7	4.9	89.7	2.1	5.0	89.0	3.4	5.2	85.9	9.2	5.8	3.1		447.6	70.9
1630	2.1	4.8	86.6	2.5	5.0	86.7	3.9	5.2	83.4	9.4	6.0	3.2		435.0	69.1
1700	2.4	4.8	84.7	2.9	5.0	84.8	4.2	5.2	81.5	9.6	6.1	3.3		425.1	67.8
1730	2.3	4.9	86.3	2.6	5.0	86.9	3.8	5.3	84.6	9.4	6.1	3.5		361.9	57.3
1800	2.2	4.9	87.6	2.6	5.0	87.2	3.6	5.3	84.9	8.8	6.2	3.6		341.8	53.7
1830	2.4	4.9	86.1	2.7	5.0	86.4	3.8	5.2	82.8	9.1	6.2	3.6		351.1	56.9
1900	2.2	4.9	87.7	2.5	5.1	88.4	3.5	5.2	85.0	8.9	6.2	3.7		312.9	50.2
1930	1.8	5.0	90.9	2.1	5.1	90.8	2.9	5.2	88.0	8.1	6.1	3.5		228.7	35.9
2000	1.2	5.0	94.4	1.4	5.0	94.5	2.2	5.1	91.1	7.2	6.0	3.1		194.0	30.8
2030	0.9	4.9	94.8	1.1	5.0	95.2	1.9	5.0	91.8	6.8	5.7	3.4		192.3	30.2
2100	0.3	4.8	97.8	0.5	4.9	98.6	1.1	5.0	95.4	6.0	5.0	3.7		147.7	21.4
2130	0.1	4.8	98.5	0.2	4.9	99.0	0.7	4.9	97.3	5.3	5.0	3.3		126.7	20.0
2200	-0.1	4.8	99.3	0.0	4.8	100.0	0.4	4.9	98.5	4.6	4.7	3.3		110.6	17.8
2230	-0.1	4.8	100.0	0.0	4.8	100.0	0.3	4.9	99.4	4.3	4.4	3.3		98.7	14.9
2300	-0.1	4.8	100.0	-0.1	4.9	100.0	0.2	4.9	100.0	3.7	4.3	3.1		65.8	7.8
2330	-0.2	4.8	100.0	-0.2	4.8	100.0	0.0	4.9	100.0	3.2	3.7	3.4		41.2	4.6
Max	11.0	7.4	100.0	10.9	7.4	100.0	10.8	7.8	100.0	9.6	8.3	5.6		481.3	75.0
Min	-0.2	4.8	63.8	-0.2	4.8	67.5	0.0	4.9	75.7	3.2	3.7	2.6		15.5	0.4
Ave	3.1	5.4	90.1	3.3	5.5	90.6	3.8	5.6	89.2	6.4	5.5	3.5		217.0	34.4
Sum														18.7	3.0

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
32.7	9.2		110.3	0.15	0.55	0.24	0.32	277		0.08	2.514		359.7	357.3 V
24.8	9.0		89.0	0.11	0.31	0.15	0.29	223		0.08	1.023		359.5	
-1.0	4.7		60.8	0.05	0.12	0.12	0.29	280		0.08	0.757		358.0	358.8 V
-7.9	-2.6		91.0	0.10	0.35	0.42	0.33	181		0.04			360.0	
-19.2	-9.5		74.4	0.08	0.81	0.48	0.29	180		0.07	1.711	1.24	376.4	358.1 V
4.7	-7.8		52.6	0.04	0.88	0.46	0.31	258		0.10	1.379	1.28	375.9	
7.3	2.5		43.8	0.03	2.10	1.32	0.96	282		0.17	0.067	2.69	361.3	355.7 V
-8.4	-2.9		58.9	0.13	3.47	2.56	1.87	278	1.10	0.23	0.023	4.54	351.8	
-7.6	-3.1		79.1	0.14	3.25	2.35	1.57	287	1.34	0.22	0.010	4.12	354.7	355.3
-13.8	-6.1		121.9	0.16	2.61	1.99	1.31	287	1.32	0.18	0.022	3.20	355.0	
-11.4	-6.7		189.8	0.20	3.25	2.45	1.62	289	1.07	0.21	0.008	3.81	353.6	355.2
9.8	-5.1		286.5	0.21	3.08	2.30	1.70	287	0.87	0.19	-0.009	4.08	352.3	
33.3	-3.4		361.8	0.20	3.72	2.98	1.96	296	0.79	0.24	-0.009	5.26	353.2	354.4 V
60.4	-1.9		441.0	0.20	4.82	3.76	2.65	315	0.53	0.29	-0.011	6.10	352.5	
92.9	-1.1		532.1	0.19	4.81	3.93	2.85	318	0.24	0.26	-0.021	5.91	351.5	354.2 V
139.8	5.5		566.8	0.18	4.77	3.57	2.53	300	0.81	0.30	-0.025	6.96	350.4	
171.5	16.3		632.0	0.17	4.37	3.46	2.48	292	0.54	0.26	-0.028	6.95	348.2	353.7 A
118.0	15.6		442.0	0.15	3.71	2.95	2.17	296	0.29	0.20	-0.048	5.71	347.7	
182.5	18.9		593.9	0.15	3.80	3.01	2.14	308	0.40	0.22	-0.055	6.50	348.9	353.9 A
178.1	20.9		531.7	0.16	4.01	3.27	2.25	313	0.42	0.23	-0.041	6.69	349.3	
171.5	19.4		508.4	0.15	4.19	3.15	2.23	313	0.69	0.26	-0.034	6.69	348.9	I
202.6	20.9		602.6	0.15	4.13	3.45	2.31	315	0.43	0.24	-0.042	7.03	349.9	
243.2	27.4		748.4	0.15	3.83	3.15	2.16	311	0.48	0.23	-0.051	7.80	347.9	354.1 D
263.3	36.1		830.4	0.15	3.11	2.57	1.80	304	0.31	0.17	-0.128	7.66	349.0	
246.6	34.2		760.2	0.15	3.39	2.83	1.91	316	0.43	0.20	-0.074	7.49	350.1	354.5 A
262.0	32.0		794.5	0.15	3.67	3.04	2.00	312	0.51	0.22	-0.086	7.54	351.3	
249.5	31.5		753.9	0.15	3.42	2.89	1.91	314	0.47	0.21	-0.064	7.37	350.0	354.6 A
264.3	30.8		789.9	0.15	3.78	3.31	2.09	328	0.57	0.24	-0.052	7.83	350.1	
283.2	33.1		849.2	0.15	3.81	3.01	1.88	286	1.13	0.26	-0.039	8.10	349.6	355.1
314.0	38.7		958.1	0.15	3.36	2.63	1.82	262	0.78	0.22	-0.095	7.71	350.3	
304.1	43.7		955.2	0.16	3.05	2.42	2.04	48	0.12	0.15	-0.362	9.55	348.9	355.0
359.1	48.3		1112.7	0.16	3.43	2.86	2.24	35	0.08	0.16	-0.358	8.27	348.7	
333.4	46.4		1044.7	0.16	3.27	2.57	1.95	55	0.24	0.17	-0.136	7.40	349.6	355.2
323.6	44.9		1003.5	0.16	3.48	2.93	2.18	34	0.15	0.17	-0.238	7.72	349.9	
319.9	40.8		981.6	0.16	4.02	3.21	2.64	41	0.15	0.20	-0.251	9.49	349.7	355.3
272.4	34.8		830.2	0.16	4.25	3.34	2.45	30	0.69	0.26	-0.120	8.38	350.1	
256.9	29.4		785.3	0.16	4.17	3.36	2.75	38	0.28	0.22	-0.341	8.82	349.7	355.5
258.9	29.3		810.3	0.16	4.37	3.62	2.97	52	0.04	0.18	-0.146	6.73	350.4	
231.1	27.3		726.4	0.16	4.13	3.34	2.75	51	0.12	0.20	-0.113	7.88	349.7	355.6
170.3	19.9		519.3	0.16	4.18	3.35	2.73	57	0.16	0.21	-0.107	7.20	350.2	
146.5	13.3		441.7	0.16	4.51	3.44	2.67	70	0.56	0.27	-0.039	7.68	349.8	355.9 D
146.2	12.1		432.8	0.16	4.70	3.80	2.83	72	0.35	0.26	-0.029	7.10	350.5	
111.2	6.5		337.7	0.14	4.67	3.83	2.82	78	0.24	0.25	-0.023	6.38	350.8	355.7
97.1	3.4		288.2	0.16	4.95	4.18	3.01	79	0.21	0.26	-0.018	6.27	350.3	
86.7	0.7		251.2	0.16	5.05	3.98	3.21	83	0.26	0.27	-0.021	6.81	349.8	355.6
79.4	0.6		216.8	0.15	5.16	4.13	3.23	83	0.17	0.26	-0.015	6.01	350.5	
54.5	-2.8		144.2	0.12	5.11	4.12	3.05	88	0.26	0.27	-0.009	5.90	350.6	355.6
34.8	-5.2		91.8	0.11	5.41	4.30	3.12	96	0.41	0.31	-0.005	6.31	350.5	
359.1	48.3		1112.7	0.21	5.41	4.30	3.23	328	1.34	0.31	2.514	9.55	376.4	358.8
-19.2	-9.5		43.8	0.03	0.12	0.12	0.29	30	0.04	0.04	-0.362	1.24	347.7	353.7
147.4	15.6		498.5	0.15	3.53	2.80	2.06	202	0.49	0.21	0.091	6.46	352.4	355.4
12.7	1.4													

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-0.2	4.8	100.0	-0.2	4.8	100.0	0.0	4.9	100.0	2.8	3.4	2.7		44.9	5.9
030	-0.3	4.7	99.9	-0.3	4.8	100.0	-0.2	4.8	100.0	2.7	3.6	2.6		36.8	4.1
100	-0.4	4.7	99.8	-0.4	4.8	100.0	-0.2	4.8	100.0	2.4	3.0	2.6		34.8	4.6
130	-0.3	4.7	98.7	-0.3	4.7	99.5	-0.2	4.8	99.6	2.3	3.0	2.6		36.2	4.2
200	-0.2	4.7	98.1	-0.2	4.7	98.8	-0.1	4.8	99.1	2.2	3.1	2.0		36.1	4.6
230	-0.1	4.7	97.8	-0.1	4.7	98.5	0.0	4.8	99.2	2.0	2.4	2.4		42.8	5.7
300	-0.1	4.7	98.6	-0.1	4.8	99.1	0.0	4.8	99.8	1.9	2.9	1.7		31.2	4.2
330	-0.2	4.7	99.9	-0.2	4.8	100.0	-0.2	4.8	100.0	1.7	2.1	2.1		29.3	3.1
400	-0.2	4.7	99.3	-0.2	4.7	99.3	-0.1	4.8	100.0	1.6	2.3	1.5		38.0	5.8
430	-0.2	4.7	98.5	-0.2	4.7	98.8	-0.1	4.8	99.6	1.6	2.4	1.2		27.9	4.8
500	-0.1	4.6	97.0	-0.1	4.7	98.5	0.0	4.8	98.9	1.5	2.3	1.5		29.9	2.4
530	0.1	4.7	96.0	0.1	4.7	96.6	0.2	4.8	97.7	1.6	2.1	1.3		40.9	5.1
600	0.1	4.7	96.2	0.1	4.7	97.1	0.2	4.8	97.4	1.6	1.7	1.7		65.2	7.4
630	0.4	4.7	95.1	0.4	4.8	96.2	0.7	4.8	95.9	1.8	2.0	1.1		110.9	18.5
700	0.6	4.7	94.2	0.7	4.8	94.9	0.9	4.9	94.6	2.0	2.2	1.4		134.4	22.0
730	0.8	4.8	94.2	0.9	4.8	93.8	1.3	4.9	93.3	2.4	2.3	1.3		123.2	17.7
800	0.9	4.8	93.2	1.0	4.9	94.0	1.4	4.9	92.2	2.7	2.5	1.4		144.9	21.0
830	1.0	4.8	92.3	1.1	4.8	92.5	1.5	4.9	91.8	2.7	2.5	1.3		146.0	20.4
900	1.5	4.9	90.8	1.7	4.9	90.8	2.2	5.0	89.0	3.3	2.7	1.3		176.8	25.2
930	2.1	4.9	88.5	2.3	5.0	88.4	2.9	5.1	86.4	3.9	2.8	1.2		235.2	34.1
1000	2.8	5.0	85.9	3.1	5.1	85.2	3.8	5.1	82.5	4.6	3.1	1.2		258.5	37.9
1030	3.6	5.1	82.4	3.8	5.1	82.3	4.6	5.2	78.7	5.4	3.4	1.1		350.0	51.7
1100	3.5	5.0	82.0	3.7	5.1	81.9	4.7	5.2	78.3	5.7	3.6	1.2		406.0	60.8
1130	3.9	5.0	80.1	4.0	5.1	80.6	5.0	5.2	76.9	6.1	4.0	1.3		419.5	63.4
1200	3.1	5.0	82.8	3.3	5.0	82.5	3.9	5.0	79.9	5.9	4.0	1.5		283.9	41.6
1230	3.6	5.0	81.2	3.7	5.0	80.8	4.6	5.1	77.9	6.1	4.0	1.6		364.7	52.8
1300	4.0	5.0	79.0	3.9	5.1	80.1	4.7	5.1	77.2	6.5	4.2	1.7		384.1	56.1
1330	5.0	5.2	76.4	5.0	5.2	76.4	6.2	5.3	72.3	7.5	4.8	1.6		600.6	89.3
1400	5.7	5.3	74.5	5.8	5.3	74.5	7.0	5.4	70.0	8.4	5.1	1.8		656.5	97.4
1430	5.6	5.3	74.8	5.5	5.3	75.3	6.8	5.4	71.2	8.9	5.4	2.0		643.3	95.0
1500	5.8	5.3	74.3	5.9	5.3	74.2	7.2	5.5	69.8	9.6	5.7	2.2		681.5	99.2
1530	5.4	5.3	76.1	5.5	5.3	76.0	6.7	5.4	71.4	9.6	5.9	2.4		611.1	89.1
1600	5.8	5.3	74.7	5.8	5.3	74.7	7.1	5.5	70.6	10.4	6.1	2.6		642.5	95.1
1630	6.0	5.3	73.9	5.9	5.4	74.6	7.1	5.5	70.4	10.7	6.1	2.8		624.0	95.2
1700	6.2	5.3	72.8	5.8	5.3	74.7	6.8	5.4	70.9	10.6	6.2	3.0		584.6	91.3
1730	6.0	5.3	73.1	5.8	5.3	74.6	6.8	5.4	70.8	10.5	6.4	3.1		544.0	86.5
1800	5.9	5.3	73.4	5.6	5.3	75.4	6.6	5.4	71.2	10.4	6.4	3.3		510.9	84.4
1830	5.8	5.3	74.2	5.6	5.3	75.6	6.5	5.4	71.8	10.1	6.4	3.4		478.3	81.7
1900	5.8	5.3	74.1	5.5	5.3	75.7	6.4	5.3	71.9	9.8	6.5	3.4		439.5	77.8
1930	6.0	5.3	72.6	5.5	5.3	75.7	6.2	5.3	72.2	8.9	6.3	3.5		403.4	74.9
2000	5.7	5.3	74.3	5.3	5.3	76.8	5.9	5.3	73.9	8.3	6.2	3.5		362.9	69.9
2030	5.8	5.6	79.0	5.3	5.6	81.5	5.7	5.3	74.6	7.8	6.1	3.5		320.3	64.2
2100	5.4	6.1	88.0	4.8	6.3	93.8	5.2	5.4	78.4	7.0	5.9	3.4		271.7	57.5
2130	5.4	6.4	93.0	4.6	6.7	100.0	4.8	6.0	89.4	6.0	5.6	3.4		231.3	52.3
2200	4.4	5.7	86.7	3.8	5.9	93.4	4.3	5.8	89.9	5.0	5.3	3.3		180.5	41.2
2230	4.2	5.3	82.3	3.7	5.5	88.2	4.1	5.8	90.1	4.5	5.1	3.2		187.2	44.2
2300	3.9	5.1	81.0	3.7	5.2	83.3	3.9	5.5	88.2	4.2	4.8	3.1		164.6	39.5
2330	3.4	5.0	82.9	3.2	5.1	84.9	3.3	5.2	85.5	3.7	4.5	2.9		138.4	34.7
Max	6.2	6.4	100.0	5.9	6.7	100.0	7.2	6.0	100.0	10.7	6.5	3.5		681.5	99.2
Min	-0.4	4.6	72.6	-0.4	4.7	74.2	-0.2	4.8	69.8	1.5	1.7	1.1		27.9	2.4
Ave	3.0	5.1	86.1	2.9	5.1	87.3	3.5	5.2	85.0	5.4	4.1	2.2		277.3	44.7
Sum														24.0	3.9

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
38.7	-5.3		94.5	0.13	5.09	3.89	2.82	90	0.94	0.33	-0.005	7.00	351.1	355.6
32.1	-4.7		76.1	0.11	4.73	3.68	2.72	101	0.85	0.31	-0.004	7.20	350.8	
27.6	-5.4		72.8	0.13	4.13	3.00	2.34	103	0.91	0.26	-0.007	5.40	349.4	355.4
31.7	-4.2		72.9	0.11	4.33	3.43	2.41	99	0.57	0.26	-0.005	5.34	350.1	
21.4	-4.3		72.9	0.13	4.25	3.22	2.29	111	1.13	0.29	-0.003	6.38	351.2	355.4
23.6	-4.8		80.5	0.13	3.90	3.14	2.32	101	0.26	0.21	-0.004	4.26	350.4	
16.1	-3.7		64.9	0.13	3.63	2.87	2.23	103	0.39	0.21	-0.006	4.68	350.2	355.3
17.7	-4.4		62.2	0.10	4.35	3.48	2.43	105	0.47	0.26	-0.002	5.23	350.8	
27.7	-3.1		81.9	0.15	4.23	3.36	2.48	101	0.53	0.25	-0.004	5.33	350.9	355.2
24.5	-2.4		65.9	0.17	4.37	3.43	2.48	100	0.48	0.25	-0.003	5.03	352.1	
30.5	-1.7		67.4	0.08	4.51	3.43	2.55	104	0.75	0.28	-0.002	6.23	354.3	355.2
40.2	0.1		94.9	0.12	4.69	3.56	2.54	107	0.87	0.30	-0.003	6.26	353.4	
31.5	-0.7		155.8	0.11	4.47	3.38	2.55	101	0.76	0.28	-0.004	5.77	352.0	355.0
76.2	4.3		250.1	0.17	5.33	4.06	3.04	102	0.72	0.33	-0.007	7.08	353.6	
78.9	5.1		295.2	0.16	5.03	4.00	3.01	101	0.46	0.29	-0.013	6.24	351.0	355.0
102.2	10.4		285.8	0.14	4.96	4.07	3.09	93	0.16	0.25	-0.014	5.87	353.1	
106.8	12.8		340.3	0.14	5.18	4.20	3.10	101	0.26	0.28	-0.014	6.04	351.9	355.0
107.7	10.8		349.6	0.14	5.40	4.56	3.29	106	0.28	0.30	-0.010	6.54	352.0	
153.5	17.6		421.3	0.14	5.65	4.30	3.50	105	0.44	0.32	-0.019	7.68	352.5	355.0
194.5	21.9		558.1	0.14	6.10	4.89	3.94	109	0.20	0.31	-0.027	7.73	352.4	
214.7	23.7		609.6	0.15	6.83	5.36	4.01	117	0.48	0.40	-0.014	9.57	352.5	355.0
275.6	31.3		812.8	0.15	6.33	4.87	3.77	111	0.49	0.37	-0.022	9.09	353.0	
311.4	33.9		963.7	0.15	6.41	5.03	3.60	108	0.84	0.41	-0.018	10.30	353.0	355.3 D
315.6	41.0		1036.0	0.15	7.28	5.63	4.17	108	0.85	0.47	-0.011	11.59	352.7	
223.3	25.8		695.0	0.15	7.11	5.63	4.11	108	0.47	0.41	-0.012	8.91	353.2	355.7
296.8	29.7		901.6	0.14	6.87	5.32	4.17	106	0.45	0.40	-0.017	9.90	352.9	
302.8	34.0		923.3	0.15	7.94	6.18	4.64	106	0.42	0.46	-0.007	10.00	353.0	355.8
471.0	51.4		1419.0	0.15	7.64	6.28	4.52	106	0.27	0.41	-0.018	8.78	352.6	
513.3	52.4		1560.8	0.15	8.35	6.41	4.69	110	0.78	0.52	-0.017	11.18	352.7	355.6
482.3	55.0		1497.7	0.15	7.95	6.07	4.65	104	0.66	0.48	-0.015	10.96	352.7	
501.3	60.3		1587.6	0.15	7.87	6.07	4.53	104	0.37	0.44	-0.014	9.81	352.5	355.7
451.6	50.8		1440.9	0.15	7.85	6.17	4.40	108	0.44	0.45	-0.014	9.79	352.5	
476.1	55.6		1511.0	0.15	7.58	6.13	4.63	105	0.37	0.43	-0.017	10.80	352.4	355.6 A
466.0	51.7		1471.3	0.15	8.08	6.61	4.70	108	0.35	0.46	-0.010	10.13	351.9	
437.7	45.6		1390.5	0.16	8.14	6.59	4.75	103	0.36	0.46	-0.006	10.05	351.5	355.5 A
406.7	43.2		1305.8	0.16	7.60	6.23	4.42	99	0.31	0.42	-0.009	9.21	351.5	
380.9	37.6		1238.3	0.17	7.84	5.85	4.72	100	0.54	0.46	-0.011	9.78	351.5	355.2
354.9	30.9		1165.5	0.17	7.81	6.37	4.62	100	0.26	0.42	-0.008	8.75	351.0	
320.2	28.2		1075.5	0.18	7.56	6.18	4.48	103	0.27	0.41	-0.008	8.20	350.6	355.0
288.5	25.5		992.3	0.19	7.79	6.03	4.59	101	0.57	0.46	-0.003	9.73	350.1	
253.8	20.3		897.6	0.19	7.57	6.18	4.43	103	0.33	0.42	-0.002	8.53	350.3	355.0
217.2	13.5		800.4	0.20	8.20	6.47	4.66	105	0.38	0.46	0.001	8.48	350.4	
175.5	7.8		681.4	0.21	8.36	6.43	4.72	106	0.83	0.53	0.002	11.09	349.7	355.0
140.0	1.8		591.7	0.23	8.52	6.67	4.98	102	0.47	0.49	0.005	9.89	349.7	
92.1	-1.7		455.3	0.23	8.17	6.40	4.55	100	0.59	0.49	0.002	8.53	349.6	355.0
94.0	-1.2		454.3	0.24	7.69	6.27	4.33	99	0.43	0.45	0.000	8.71	348.8	
68.3	-0.8		381.5	0.24	7.53	5.96	4.27	101	0.41	0.43	0.001	7.92	349.2	354.9
40.4	-2.8		306.2	0.25	7.25	5.82	4.09	103	0.88	0.46	0.001	9.32	349.1	
513.3	60.3		1587.6	0.25	8.52	6.67	4.98	117	1.13	0.53	0.005	11.59	354.3	355.8
16.1	-5.4		62.2	0.08	3.63	2.87	2.23	90	0.16	0.21	-0.027	4.26	348.8	354.9
203.2	18.4		661.0	0.16	6.43	5.07	3.74	104	0.53	0.38	-0.008	8.13	351.5	355.3
17.6	1.6													

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	3.0	5.0	83.9	2.8	5.0	85.6	2.9	5.0	85.8	3.2	4.2	2.8		109.1	29.2
030	2.7	4.9	84.7	2.5	5.0	86.5	2.6	5.0	86.5	2.7	3.9	2.7		90.7	24.6
100	2.7	4.9	85.0	2.4	4.9	87.2	2.3	4.9	87.3	2.4	3.5	2.5		75.1	21.8
130	2.4	4.9	86.1	2.2	4.9	87.5	2.1	4.9	88.1	2.1	3.3	2.4		62.5	18.4
200	2.4	4.8	85.4	2.1	4.9	87.1	2.1	4.9	87.3	1.9	3.1	2.2		57.2	16.3
230	2.3	4.8	85.9	2.1	4.8	86.5	2.0	4.9	87.5	1.7	3.0	2.1		58.0	15.8
300	2.0	4.9	87.6	1.9	4.8	88.3	1.8	4.8	88.8	1.6	2.8	2.0		57.5	15.0
330	1.9	4.8	86.8	1.7	4.8	89.1	1.6	4.8	89.6	1.4	2.6	1.8		67.6	17.3
400	1.9	4.8	87.3	1.7	4.8	88.7	1.6	4.8	89.1	1.3	2.4	1.7		77.2	19.2
430	2.2	4.8	85.6	1.8	4.8	87.6	1.8	4.8	88.0	1.3	2.2	1.6		93.4	22.4
500	2.6	4.9	84.7	2.1	4.9	87.9	2.0	4.9	88.0	1.3	2.2	1.4		111.2	25.4
530	3.0	5.0	84.7	2.4	5.0	87.9	2.5	5.0	87.5	1.5	2.5	1.3		142.2	30.6
600	3.1	5.0	84.3	2.5	5.0	88.0	2.6	5.0	87.4	1.6	2.4	1.2		152.6	32.1
630	3.3	5.0	83.0	2.6	5.1	87.8	2.6	5.1	87.3	1.6	2.4	1.2		156.0	31.9
700	3.9	5.0	79.8	3.0	5.1	86.2	3.1	5.1	85.1	1.8	2.4	1.1		212.0	42.6
730	4.3	5.1	79.5	3.3	5.2	85.5	3.5	5.2	84.1	2.1	2.5	1.0		241.5	46.0
800	4.4	5.2	79.4	3.8	5.2	83.7	4.0	5.2	81.7	2.4	2.6	1.0		283.7	52.2
830	4.8	5.2	77.6	4.2	5.2	81.5	4.3	5.2	80.5	2.8	2.7	0.9		329.7	59.0
900	4.0	5.2	81.7	3.7	5.2	83.4	4.0	5.2	81.6	3.0	2.7	1.0		303.0	51.4
930	5.0	5.2	76.9	4.4	5.2	80.6	4.7	5.2	78.6	3.5	2.9	0.9		412.6	68.4
1000	4.3	5.2	80.4	4.1	5.2	82.2	4.6	5.2	79.4	4.2	3.2	1.0		370.4	59.7
1030	4.5	5.2	78.9	3.9	5.2	82.1	4.2	5.2	80.7	4.5	3.3	1.1		363.5	56.5
1100	4.3	5.2	80.1	3.8	5.2	83.4	4.1	5.2	81.9	4.8	3.4	1.2		328.2	49.8
1130	4.5	5.2	79.5	3.8	5.3	83.9	4.1	5.3	82.5	5.0	3.5	1.3		351.2	53.5
1200	4.7	5.2	78.0	4.0	5.2	82.8	4.1	5.3	82.3	5.3	3.6	1.4		365.3	55.9
1230	4.4	5.2	80.5	3.8	5.3	84.8	4.1	5.3	82.9	5.4	3.7	1.4		374.6	57.5
1300	4.1	5.5	85.5	3.8	5.5	87.9	4.2	5.5	85.9	5.8	3.8	1.5		361.0	55.1
1330	4.2	5.5	85.1	4.0	5.5	87.3	4.4	5.5	84.6	6.1	3.9	1.5		381.6	57.8
1400	4.9	5.4	80.0	4.6	5.4	82.5	4.7	5.5	82.3	6.4	4.0	1.6		447.0	68.6
1430	4.7	5.3	80.2	4.4	5.4	83.5	4.6	5.4	82.6	6.7	4.1	1.7		462.2	71.0
1500	4.5	5.4	81.4	4.5	5.4	82.6	4.8	5.4	80.9	7.0	4.3	1.8		481.4	74.7
1530	4.7	5.3	80.1	4.5	5.4	81.9	4.6	5.4	81.8	7.0	4.3	1.9		464.4	72.2
1600	4.3	5.3	82.4	4.1	5.3	84.0	4.4	5.3	82.3	7.1	4.3	1.9		432.1	67.1
1630	4.1	5.3	82.8	3.8	5.3	85.1	4.2	5.3	83.0	7.0	4.4	2.0		427.7	66.3
1700	4.0	5.3	83.2	3.7	5.3	85.6	4.1	5.3	83.0	7.2	4.5	2.1		411.9	64.7
1730	3.4	5.2	85.1	3.1	5.2	88.0	3.6	5.3	85.3	6.9	4.5	2.2		377.2	59.9
1800	3.2	5.1	85.5	2.6	5.2	90.2	3.0	5.2	88.0	6.4	4.4	2.3		337.2	53.6
1830	2.7	5.1	88.2	2.3	5.2	91.4	2.7	5.2	89.7	5.9	4.3	2.3		289.2	44.8
1900	2.3	5.1	90.1	2.1	5.2	92.8	2.5	5.2	90.4	5.7	4.2	2.3		275.7	42.9
1930	1.9	5.0	91.8	1.7	5.1	94.2	2.2	5.1	91.5	5.3	4.1	2.3		235.2	36.5
2000	1.5	5.0	94.0	1.5	5.1	95.2	1.9	5.1	93.3	4.9	4.0	2.3		205.3	31.4
2030	1.5	5.0	93.2	1.3	5.1	96.3	1.6	5.1	94.6	4.5	3.8	2.2		183.0	27.4
2100	1.3	5.1	96.0	1.2	5.1	97.5	1.5	5.2	96.4	4.1	3.6	2.2		154.5	23.4
2130	1.2	5.0	95.7	1.0	5.1	98.3	1.2	5.1	97.2	3.7	3.5	2.1		134.6	20.4
2200	1.0	5.0	97.3	0.8	5.1	99.1	1.0	5.1	98.7	3.3	3.3	2.0		110.7	16.4
2230	0.7	4.9	97.8	0.6	5.0	99.6	0.7	5.0	98.9	3.0	3.0	2.0		88.4	13.0
2300	0.6	4.9	97.8	0.4	5.0	99.9	0.6	5.0	99.8	2.6	2.9	1.9		75.4	9.9
2330	0.4	4.9	97.9	0.2	4.9	100.0	0.3	4.9	99.9	2.3	2.7	1.8		62.7	8.4
Max	5.0	5.5	97.9	4.6	5.5	100.0	4.8	5.5	99.9	7.2	4.5	2.8		481.4	74.7
Min	0.4	4.8	76.9	0.2	4.8	80.6	0.3	4.8	78.6	1.3	2.2	0.9		57.2	8.4
Ave	3.1	5.1	85.4	2.8	5.1	88.1	3.0	5.1	87.1	3.9	3.4	1.7		242.6	40.8
Sum														21.0	3.5

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
12.0	-5.1		234.0	0.27	6.94	5.60	4.27	98	0.18	0.36	0.002	6.82	348.7	355.0
-6.0	-6.1		187.7	0.27	7.57	5.69	4.10	95	1.20	0.51	0.002	10.37	348.8	
-17.5	-6.4		154.8	0.29	7.81	6.01	4.41	99	0.75	0.48	0.004	9.94	348.3	354.6 D
-24.4	-6.6		128.6	0.29	7.71	6.25	4.46	95	0.37	0.43	0.003	8.22	348.5	
-27.2	-6.7		114.7	0.29	7.83	6.01	4.42	98	0.84	0.50	0.003	10.63	348.0	354.4 A
-25.9	-6.2		112.6	0.27	7.49	5.97	4.27	102	0.38	0.42	0.003	7.90	348.1	
-25.3	-6.1		112.9	0.26	8.01	5.71	4.26	102	1.47	0.55	0.002	10.33	347.9	354.3 A
-25.5	-6.0		128.8	0.26	8.01	6.09	4.45	96	0.97	0.51	0.004	9.75	347.8	
-20.7	-5.6		151.2	0.25	7.65	6.07	4.33	95	0.74	0.47	0.004	9.03	347.2	354.2 A
-6.6	-4.3		189.4	0.24	8.24	6.22	4.70	99	0.88	0.53	0.003	10.92	346.9	
10.4	-2.9		234.1	0.23	8.68	6.83	5.04	99	0.47	0.50	0.005	9.91	347.1	354.6 D
41.6	0.0		307.8	0.21	8.86	6.68	4.95	99	0.95	0.58	0.004	12.44	347.2	
53.3	1.0		338.0	0.21	8.89	6.92	5.09	99	0.68	0.54	0.005	10.49	347.3	355.0
61.5	1.0		366.9	0.20	9.25	7.16	5.15	98	0.60	0.56	0.004	11.14	347.5	
112.4	3.7		506.1	0.20	9.63	7.46	5.53	97	0.72	0.59	0.006	11.84	347.6	355.1
143.2	7.0		577.8	0.19	9.93	7.57	5.42	98	0.95	0.64	0.006	12.91	347.4	
178.7	11.2		680.9	0.18	9.29	7.26	5.33	103	0.36	0.52	0.003	9.73	347.8	355.0
222.0	16.3		792.2	0.18	10.20	7.45	5.91	104	0.86	0.64	0.003	12.76	347.2	
202.8	17.0		746.9	0.17	9.85	7.56	5.44	110	0.86	0.62	0.000	12.41	347.8	354.9
296.4	23.8		985.9	0.17	9.88	8.01	5.76	109	0.29	0.54	0.003	9.75	347.4	
278.1	25.8		847.4	0.16	9.14	7.58	5.30	108	0.33	0.51	-0.002	10.15	347.3	354.9
285.5	23.6		840.2	0.16	10.24	7.83	5.89	106	0.68	0.62	0.002	12.64	347.0	
264.4	23.0		758.2	0.15	9.52	7.65	5.59	106	0.28	0.52	0.001	9.87	346.9	354.9
286.2	23.6		801.3	0.15	10.33	8.14	5.90	107	0.37	0.58	0.003	10.44	346.5	
296.8	24.7		834.7	0.15	10.85	8.19	6.10	106	0.82	0.67	0.004	12.19	346.5	354.9
305.6	24.9		872.3	0.15	9.93	8.11	6.03	107	0.21	0.52	0.002	10.23	346.3	
294.6	24.7		823.9	0.15	10.11	8.10	6.05	114	0.46	0.58	0.000	11.18	346.6	354.9
311.6	25.1		865.0	0.15	10.04	7.95	5.98	114	0.25	0.54	-0.001	10.47	346.3	
362.2	28.0		1051.9	0.15	11.05	8.83	6.41	111	0.32	0.62	0.001	12.04	346.1	354.9
372.6	30.0		1060.0	0.15	10.65	8.44	6.25	111	0.29	0.58	0.001	10.62	346.1	
391.8	30.0		1092.4	0.16	10.81	8.61	6.45	114	0.24	0.57	-0.002	10.11		354.8
373.7	27.8		1072.5	0.16	11.42	9.25	7.26	111	0.29	0.62	0.000	13.27	351.1	
347.4	25.7		988.1	0.16	10.82	8.23	6.36	110	0.55	0.64	-0.001	13.29	352.0	354.6
344.3	25.1		973.8	0.15	10.32	8.48	6.25	107	0.19	0.53	-0.001	9.60	352.3	
330.6	26.3		928.9	0.16	9.83	7.82	6.16	104	0.27	0.52	-0.002	10.63	352.8	354.5
302.1	23.4		849.2	0.16	9.86	7.89	5.66	98	0.37	0.55	-0.002	10.29	352.6	
272.8	19.6		773.9	0.16	9.89	7.61	5.77	98	0.55	0.58	0.001	11.45	352.8	354.5
236.1	15.5		659.6	0.15	10.02	7.46	5.68	98	0.85	0.63	0.000	12.04	353.7	
223.6	15.0		623.7	0.16	9.28	7.41	5.45	99	0.29	0.50	-0.002	9.45	353.9	354.7
191.3	12.2		528.4	0.16	9.13	6.99	5.17	99	0.76	0.57	-0.002	12.28	353.7	
168.3	9.6		465.6	0.15	9.00	7.18	5.33	101	0.29	0.49	-0.003	9.29	353.9	354.8
150.4	7.6		404.0	0.15	9.05	7.30	5.67	97	0.28	0.48	-0.001	9.12	353.6	
126.8	6.5		350.3	0.15	8.38	6.61	5.09	96	0.38	0.47	-0.003	9.99	353.5	354.8
111.3	4.5		303.3	0.15	9.09	7.18	5.64	98	0.30	0.49		9.10	353.3	
92.2	2.6		250.6	0.15	9.16	7.11	5.10	99	0.72	0.56		10.76	353.6	354.9
74.5	1.0		195.3	0.15	8.97	6.60	5.17	100	0.79	0.55	-0.001	10.34	353.3	
63.7	0.0		167.0	0.13	8.79	6.93	5.23	93	0.45	0.50	0.001	9.46	353.2	355.1
52.4	-1.2		138.6	0.13	8.88	6.75	5.10	93	0.74	0.54	0.002	9.54	353.5	
391.8	30.0		1092.4	0.29	11.42	9.25	7.26	114	1.47	0.67	0.006	13.29	353.9	355.1
-27.2	-6.7		112.6	0.13	6.94	5.60	4.10	93	0.18	0.36	-0.003	6.82	346.1	354.2
168.0	10.9		553.6	0.19	9.30	7.27	5.40	102	0.56	0.54	0.001	10.57	349.4	354.8
14.5	0.9													

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	0.1	4.8	98.2	0.0	4.8	100.0	0.1	4.9	100.0	2.0	2.5	1.7		50.4	6.9
030	-0.1	4.8	99.8	-0.1	4.8	100.0	0.0	4.8	100.0	1.7	2.4	1.6		41.3	5.7
100	-0.1	4.7	99.3	-0.1	4.8	100.0	-0.1	4.8	100.0	1.6	2.2	1.5		31.3	3.0
130	-0.1	4.8	99.2	-0.1	4.8	100.0	0.0	4.9	100.0	1.4	2.1	1.4		22.8	2.3
200	-0.1	4.7	99.2	-0.2	4.8	100.0	-0.1	4.8	100.0	1.3	1.9	1.3		22.8	2.3
230	-0.2	4.8	99.9	-0.2	4.8	100.0	-0.2	4.8	100.0	1.1	1.8	1.2		22.4	1.2
300	-0.2	4.8	100.0	-0.2	4.8	100.0	-0.1	4.8	100.0	1.0	1.7	1.2		20.7	2.5
330	-0.2	4.8	100.0	-0.2	4.8	100.0	-0.1	4.8	100.0	1.0	1.6	1.1		23.1	2.1
400	-0.1	4.8	100.0	0.0	4.9	100.0	0.0	4.9	100.0	1.0	1.6	1.0		25.7	1.7
430	0.0	4.8	100.0	0.0	4.9	100.0	0.0	4.9	100.0	1.0	1.6	0.9		29.6	3.3
500	-0.1	4.8	100.0	0.0	4.9	100.0	0.0	4.9	100.0	1.0	1.6	0.9		38.6	4.1
530	0.0	4.8	100.0	0.0	4.9	100.0	0.1	4.9	100.0	1.1	1.6	0.8		47.2	5.5
600	0.1	4.9	100.0	0.2	4.9	100.0	0.3	5.0	100.0	1.2	1.7	0.7		60.2	7.2
630	0.3	4.9	100.0	0.3	5.0	100.0	0.5	5.0	100.0	1.3	1.6	0.7		73.7	9.1
700	0.6	5.0	99.9	0.6	5.1	100.0	0.8	5.1	100.0	1.6	1.7	0.6		94.9	12.3
730	0.7	5.1	99.9	0.7	5.1	100.0	0.9	5.2	100.0	1.8	1.8	0.6		109.9	14.1
800	0.8	5.1	100.0	0.9	5.2	100.0	1.1	5.3	100.0	2.1	1.8	0.6		122.8	16.1
830	1.0	5.2	100.0	1.1	5.3	100.0	1.3	5.3	100.0	2.4	1.9	0.6		144.6	19.9
900	1.2	5.2	99.4	1.2	5.3	100.0	1.6	5.4	100.0	2.9	2.0	0.6		172.9	24.3
930	1.3	5.2	99.6	1.4	5.3	100.0	1.7	5.4	100.0	3.3	2.2	0.6		182.7	26.0
1000	1.3	5.3	99.4	1.5	5.4	100.0	1.8	5.5	99.9	3.5	2.3	0.7		180.8	26.0
1030	1.4	5.2	98.6	1.5	5.3	100.0	1.9	5.4	98.9	3.8	2.4	0.7		200.9	29.0
1100	1.5	5.2	98.2	1.6	5.4	99.5	2.1	5.4	98.0	4.1	2.6	0.7		214.9	30.6
1130	1.8	5.3	96.2	1.9	5.4	97.8	2.4	5.5	96.0	4.5	2.7	0.8		248.9	36.8
1200	2.1	5.3	94.5	2.2	5.4	95.7	2.9	5.5	93.5	5.1	3.0	0.8		312.1	47.4
1230	2.4	5.3	93.4	2.6	5.4	93.8	3.4	5.5	89.8	5.7	3.2	0.9		359.0	55.2
1300	2.7	5.3	91.5	2.7	5.4	92.5	3.6	5.4	87.8	6.3	3.5	1.0		389.6	60.2
1330	2.7	5.4	92.6	2.8	5.5	93.0	3.8	5.5	87.6	6.6	3.8	1.1		395.0	60.9
1400	2.6	5.3	92.3	2.9	5.4	92.2	3.7	5.4	87.0	6.8	3.9	1.2		357.3	55.1
1430	2.7	5.3	92.1	2.8	5.4	92.3	3.7	5.4	87.2	6.7	4.1	1.4		330.6	50.0
1500	2.7	5.4	92.4	2.9	5.4	92.3	3.7	5.4	87.4	6.8	4.2	1.5		325.0	49.5
1530	2.9	5.3	90.2	3.1	5.4	90.6	4.0	5.4	85.6	7.0	4.4	1.6		351.2	53.4
1600	3.0	5.3	89.1	3.3	5.4	88.7	4.4	5.4	82.9	7.7	4.6	1.6		409.1	63.3
1630	3.0	5.3	88.6	3.3	5.3	88.1	4.4	5.4	82.4	8.2	4.8	1.7		403.5	62.7
1700	2.9	5.2	88.8	3.1	5.3	89.1	4.2	5.3	82.9	8.3	4.9	1.8		374.9	57.5
1730	2.9	5.2	88.3	3.2	5.3	88.2	4.3	5.3	82.1	8.5	5.1	2.0		381.0	60.1
1800	2.7	5.2	89.4	3.0	5.3	89.9	4.1	5.3	83.3	8.4	5.2	2.1		341.0	53.9
1830	2.8	5.1	87.1	3.0	5.2	87.1	4.1	5.1	80.6	8.5	5.3	2.2		369.7	60.4
1900	2.5	5.1	88.3	2.6	5.1	89.5	3.5	5.2	84.2	7.9	5.2	2.3		322.1	52.7
1930	2.3	5.0	88.6	2.4	5.1	89.4	3.3	5.1	83.9	7.5	5.2	2.4		287.1	46.8
2000	2.1	5.0	90.2	2.2	5.1	91.2	3.0	5.1	86.1	7.0	5.1	2.4		260.2	42.5
2030	2.3	5.1	90.7	2.4	5.2	90.8	3.0	5.2	86.7	6.5	5.0	2.4		207.6	32.7
2100	2.0	5.1	92.1	2.1	5.2	92.8	2.6	5.1	89.1	5.7	4.8	2.5		141.9	21.3
2130	1.8	5.2	95.2	1.8	5.3	96.1	2.2	5.2	92.9	5.1	4.6	2.4		117.7	17.2
2200	1.7	5.3	97.5	1.8	5.3	98.1	2.1	5.3	95.5	4.7	4.3	2.4		108.0	15.8
2230	1.5	5.3	98.2	1.6	5.3	99.5	1.8	5.3	97.6	4.3	4.1	2.4		88.0	13.4
2300	1.4	5.2	98.5	1.5	5.3	99.6	1.7	5.3	97.4	3.9	3.9	2.3		68.3	9.8
2330	1.3	5.2	98.8	1.4	5.3	100.0	1.6	5.3	98.9	3.5	3.7	2.2		52.7	6.4
Max	3.0	5.4	100.0	3.3	5.5	100.0	4.4	5.5	100.0	8.5	5.3	2.5		409.1	63.3
Min	-0.2	4.7	87.1	-0.2	4.8	87.1	-0.2	4.8	80.6	1.0	1.6	0.6		20.7	1.2
Ave	1.4	5.1	95.7	1.5	5.2	96.2	2.0	5.2	93.9	4.3	3.2	1.4		186.2	27.9
Sum														16.1	2.4

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
43.0	-2.2		108.5	0.14	7.73	6.10	4.66	96	0.56	0.46	0.001	9.26	352.7	355.2
35.4	-2.7		88.7	0.14	7.36	5.67	4.28	96	0.71	0.45	-0.001	8.85	352.7	
28.9	-3.1		64.5	0.10	7.15	5.48	4.10	106	0.96	0.47	-0.001	9.82	352.5	355.1
22.5	-3.0		46.2	0.10	6.54	4.93	3.50	107	1.21	0.44	-0.001	9.30	352.9	
22.3	-2.9		46.2	0.10	6.97	5.28	3.93	96	0.99	0.45	0.000	8.76	353.0	355.0
22.4	-2.8		44.7		7.03	5.38	3.89	94	1.01	0.46	0.000	10.04	352.4	
21.0	-2.3		42.2		5.88	4.59	3.38	101	0.72	0.36	-0.001	7.58	352.9	354.9
23.5	-1.8		46.8		6.27	4.88	3.68	93	0.67	0.39	-0.001	8.35	351.5	
25.9	-0.9		52.1		6.13	4.51	3.40	98	1.12	0.40	-0.001	8.16	352.7	354.8
29.2	-0.2		61.8	0.11	6.11	4.98	3.68	97	0.23	0.32	-0.001	6.10	352.2	
36.1	0.7		79.8	0.11	6.28	4.71	3.60	91	1.13	0.42	-0.002	8.00	352.0	354.6
42.8	2.4		97.5	0.12	5.59	4.28	3.21	88	0.83	0.35	-0.003	7.07	351.8	
53.7	3.8		128.4	0.12	5.85	4.86	3.24	91	0.56	0.36	-0.002	7.03	351.2	354.5
64.7	5.7		157.4	0.12	6.22	4.99	3.71	88	0.62	0.38	-0.002	8.68	351.4	
81.1	8.0		200.3	0.13	6.10	4.93	3.60	92	0.34	0.34	-0.003	7.08	351.4	354.4
93.3	9.6		235.7	0.13	6.54	5.31	3.85	92	0.38	0.37	-0.003	7.51	351.6	
103.8	10.8		261.1	0.13	6.18	4.76	3.42	93	1.11	0.41	-0.005	9.31	351.1	354.3
120.3	12.9		306.9	0.14	6.14	4.77	3.46	94	0.80	0.39	-0.006	8.41	351.5	
140.9	16.0		368.3	0.14	5.91	4.50	3.45	95	0.63	0.35	-0.009	7.66	351.1	354.3
147.3	17.8		390.4	0.14	5.80	4.57	3.41	99	0.73	0.36	-0.010	8.22	350.6	
146.1	17.8		392.8	0.14	5.52	4.45	3.28	102	0.59	0.33	-0.012	7.97	349.9	354.4
162.0	18.9		436.7	0.14	5.72	4.50	3.36	97	0.93	0.38	-0.007	9.56	350.3	
171.6	20.3		466.4	0.14	5.67	4.43	3.34	94	0.58	0.34	-0.012	8.38	350.1	354.5
197.0	23.3		548.4	0.15	5.76	4.55	3.25	94	0.45	0.33	-0.011	7.25	350.9	
245.0	28.5		685.2	0.15	6.21	5.01	3.67	91	0.33	0.35	-0.013	7.72	351.3	354.5
281.7	32.1		797.3	0.15	6.60	5.06	3.93	94	0.55	0.39	-0.018	9.37	351.3	
303.9	36.4		853.5	0.15	6.74	5.31	4.03	91	0.61	0.41	-0.014	10.31	351.0	354.6
311.8	35.7		891.7	0.15	6.83	5.04	3.73	91	1.09	0.45	-0.015	10.54	351.1	
280.5	32.6		812.5	0.15	6.41	5.12	3.74	97	0.49	0.38	-0.019	9.20	351.6	354.5
263.3	29.8		747.2	0.15	6.09	4.90	3.69	94	0.46	0.35	-0.020	9.34	351.8	
258.6	28.7		736.8	0.15	6.33	4.86	3.63	94	0.90	0.41	-0.017	9.82	351.4	354.5
279.5	31.5		801.1	0.15	6.07	4.96	3.49	90	0.48	0.36	-0.017	8.22	351.4	
321.7	36.8		938.4	0.15	5.83	4.68	3.55	99	0.39	0.33	-0.027	9.35	351.7	354.4
311.4	37.3		932.7	0.16	5.52	4.49	3.60	97	0.19	0.29	-0.029	8.40	352.0	
288.6	35.0		860.6	0.15	5.29	4.06	3.37	96	0.36	0.29	-0.050	8.44	352.1	354.5
291.2	36.4		882.2	0.16	5.06	3.98	3.22	90	0.27	0.27	-0.062	8.36	352.1	
260.4	33.5		774.2	0.16	4.65	3.74	2.91	83	0.31	0.25	-0.085	8.12	351.7	354.5
274.9	33.2		872.3	0.16	5.30	4.30	3.44	76	0.23	0.27	-0.132	7.70	351.8	
243.7	26.7		742.2	0.16	5.77	4.62	3.17	82	1.12	0.38	-0.022	9.00	351.4	354.7
211.1	22.7		671.4	0.16	5.57	4.22	3.15	85	0.75	0.34	-0.026	8.60	351.4	
189.0	19.0		603.5	0.16	5.33	4.06	3.07	84	0.67	0.32	-0.026	8.24	351.8	354.7
154.2	15.9		478.3	0.16	5.19	4.06	2.95	86	0.81	0.33	-0.019	8.21	352.4	
110.6	11.3		325.5	0.15	5.12	3.94	2.69	82	1.36	0.35	-0.017	7.65	351.8	354.8
92.8	8.3		270.5	0.15	5.00	3.82	2.68	80	1.27	0.34	-0.013	7.51	350.1	
85.4	7.0		247.1	0.15	4.98	3.95	2.75	79	0.97	0.32	-0.021	6.09	350.6	354.9
70.9	5.5		197.7	0.15	4.73	3.83	2.73	77	0.37	0.26	-0.011	5.39	351.1	
55.8	3.9		151.3	0.14	4.46	3.57	2.85	77	0.29	0.24	-0.028	4.60	350.8	354.9
44.6	2.1		115.9	0.12	4.54	3.48	2.63	83	0.70	0.27	-0.010	5.39	350.6	
321.7	37.3		938.4	0.16	7.73	6.10	4.66	107	1.36	0.47	0.001	10.54	353.0	355.2
21.0	-3.1		42.2	0.10	4.46	3.48	2.63	76	0.19	0.24	-0.132	4.60	349.9	354.3
147.2	15.3		417.9	0.14	5.92	4.63	3.45	92	0.68	0.36	-0.017	8.21	351.5	354.7
12.7	1.3													

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	1.2	5.2	99.1	1.2	5.3	100.0	1.3	5.3	99.8	3.1	3.5	2.1		39.6	5.1
030	1.0	5.2	100.0	1.1	5.3	100.0	1.2	5.2	100.0	2.8	3.3	2.1		34.2	4.4
100	1.1	5.2	99.4	1.2	5.3	100.0	1.2	5.3	100.0	2.6	3.1	2.0		27.5	2.9
130	1.0	5.1	99.2	1.0	5.2	100.0	1.1	5.2	100.0	2.4	2.9	1.9		20.4	2.2
200	1.0	5.1	99.7	1.0	5.2	100.0	1.0	5.2	100.0	2.2	2.8	1.8		20.2	1.7
230	1.0	5.2	100.0	1.0	5.2	100.0	1.0	5.2	100.0	2.1	2.7	1.7		18.9	1.2
300	0.8	5.1	100.0	0.8	5.1	100.0	0.9	5.2	100.0	2.0	2.6	1.6		17.7	0.7
330	0.8	5.1	99.9	0.8	5.2	100.0	0.9	5.2	100.0	1.9	2.5	1.5		20.6	1.6
400	0.8	5.1	100.0	0.8	5.1	100.0	0.8	5.2	100.0	1.9	2.4	1.5		25.6	2.6
430	0.8	5.1	99.6	0.8	5.1	100.0	0.9	5.2	100.0	1.9	2.3	1.4		33.1	3.3
500	0.8	5.1	99.7	0.8	5.1	100.0	0.9	5.2	100.0	1.9	2.3	1.3		37.8	4.2
530	0.9	5.1	99.5	0.9	5.2	100.0	1.0	5.2	100.0	2.0	2.2	1.3		55.4	6.8
600	0.9	5.1	99.8	1.0	5.2	100.0	1.1	5.2	100.0	2.2	2.2	1.2		56.0	6.7
630	1.1	5.2	100.0	1.2	5.3	100.0	1.4	5.3	100.0	2.3	2.2	1.1		57.3	6.7
700	1.4	5.3	100.0	1.6	5.4	100.0	1.8	5.5	100.0	2.6	2.2	1.1		73.6	9.2
730	1.8	5.5	100.0	2.0	5.6	100.0	2.3	5.6	99.9	3.0	2.3	1.0		91.4	11.7
800	2.6	5.8	100.0	2.8	5.9	100.0	3.1	5.9	99.6	3.5	2.3	1.0		108.6	14.1
830	3.0	5.9	100.0	3.2	6.1	100.0	3.6	6.1	99.3	4.0	2.4	1.0		119.2	16.3
900	3.4	6.1	99.4	3.6	6.2	100.0	4.1	6.2	97.8	4.6	2.6	1.0		140.9	19.7
930	3.2	5.7	95.7	3.3	5.9	97.2	3.9	6.0	95.6	5.3	2.8	1.1		185.2	28.6
1000	3.1	5.6	94.0	3.3	5.7	94.5	3.9	5.8	92.9	5.7	3.1	1.1		216.9	32.8
1030	3.1	5.3	89.4	3.4	5.5	89.6	4.2	5.6	86.6	6.3	3.4	1.2		278.5	42.1
1100	4.2	5.4	83.8	4.5	5.5	83.3	5.6	5.6	80.1	7.3	3.9	1.2		362.9	56.0
1130	4.9	5.4	81.0	5.1	5.5	81.2	6.6	5.7	75.8	7.9	4.6	1.3		519.2	80.8
1200	5.6	5.5	77.6	6.0	5.6	77.4	7.4	5.7	72.3	8.2	5.4	1.4		579.0	86.9
1230	5.4	5.4	77.9	5.8	5.5	77.5	7.4	5.7	71.4	8.8	6.1	1.7		601.4	90.0
1300	4.5	5.3	80.0	5.0	5.4	79.4	6.8	5.5	71.8	9.3	6.5	2.0		642.0	95.6
1330	4.0	5.2	81.4	4.4	5.3	81.6	5.5	5.3	75.9	8.8	6.5	2.3		352.1	50.3
1400	4.9	5.3	78.4	5.3	5.4	77.6	6.9	5.5	71.5	9.0	6.6	2.6		614.3	90.1
1430	5.2	5.3	77.8	5.7	5.4	75.6	7.5	5.5	69.1	10.9	7.1	2.7		659.7	97.5
1500	4.7	5.3	79.2	5.1	5.3	77.4	6.9	5.4	70.4	11.7	7.3	3.0		655.5	96.3
1530	4.3	5.2	79.7	4.6	5.2	78.6	6.4	5.3	71.7	12.2	7.4	3.3		640.4	94.2
1600	4.2	5.2	80.3	4.6	5.2	79.0	6.3	5.3	72.1	12.6	7.5	3.5		622.8	92.7
1630	5.1	5.2	76.7	5.6	5.3	74.5	7.4	5.4	68.9	13.2	7.6	3.7		597.1	89.9
1700	5.7	5.2	73.5	6.2	5.3	73.0	7.9	5.5	66.8	14.0	7.8	3.9		570.4	89.1
1730	5.1	5.2	75.6	5.6	5.3	74.9	7.2	5.3	67.9	14.0	8.1	4.1		540.6	87.6
1800	5.1	5.1	74.8	5.5	5.2	74.4	7.1	5.2	67.4	13.8	8.3	4.2		504.8	83.5
1830	4.8	5.1	76.5	5.1	5.2	75.7	6.6	5.1	68.4	13.3	8.4	4.4		469.3	81.0
1900	4.9	5.1	76.3	5.2	5.2	75.3	6.6	5.1	68.4	12.7	8.3	4.6		432.0	76.5
1930	4.4	5.1	77.7	4.7	5.1	76.6	6.0	5.0	69.6	11.5	8.3	4.6		392.1	72.2
2000	4.2	4.9	77.2	4.4	5.0	76.3	5.6	5.0	70.3	11.0	8.1	4.6		352.0	67.7
2030	3.8	5.1	81.1	4.1	5.1	79.3	5.3	4.9	71.4	10.4	7.9	4.6		310.6	62.9
2100	3.5	5.3	86.8	3.7	5.5	89.1	4.8	4.9	74.0	9.6	7.8	4.5		267.8	57.5
2130	3.2	5.3	88.9	3.5	5.6	92.4	4.4	5.4	82.8	8.5	7.5	4.5		230.8	52.0
2200	2.6	5.0	85.8	2.8	5.4	92.2	3.8	5.3	85.1	7.3	7.2	4.5		201.9	47.2
2230	2.2	4.8	85.3	2.4	5.1	89.2	3.2	5.2	87.1	6.4	6.9	4.3		172.5	41.1
2300	1.7	4.7	86.6	1.8	4.8	87.9	2.2	5.1	90.0	5.5	6.4	4.2		144.5	36.0
2330	1.2	4.5	86.9	1.3	4.7	88.4	1.6	4.7	87.5	4.8	6.1	4.1		119.9	29.8
Max	5.7	6.1	100.0	6.2	6.2	100.0	7.9	6.2	100.0	14.0	8.4	4.6		659.7	97.5
Min	0.8	4.5	73.5	0.8	4.7	73.0	0.8	4.7	66.8	1.9	2.2	1.0		17.7	0.7
Ave	3.0	5.2	88.8	3.2	5.3	88.9	4.1	5.4	85.4	6.9	5.0	2.5		275.7	44.4
Sum														23.8	3.8

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
34.8	0.8		84.9	0.13	4.43	3.56	2.76	76	0.44	0.25	-0.018	3.65	350.8	354.8
30.4	0.0		73.7	0.13	4.35	3.58	2.56	79	0.59	0.26	-0.009	5.01	350.6	
25.0	-0.4		58.2	0.10	4.33	3.26	2.42	85	0.87	0.27	-0.003	5.29	351.2	354.8
18.9	-0.9		41.8	0.11	3.64	2.71	1.98	89	1.21	0.24	-0.002	5.01	351.1	
19.6	-0.9		41.7		3.84	3.18	2.27	80	0.28	0.21	-0.005	3.56	350.0	354.7
18.7	-0.8		38.0		3.68	2.86	2.17	91	0.67	0.22	-0.004	4.64	350.5	
17.2	-0.8		35.6		3.38	2.59	1.96	98	0.79	0.21	-0.003	4.49	351.1	354.7
19.9	-0.5		42.4		3.40	2.45	1.77	100	1.78	0.24	-0.003	5.15	351.1	
23.6	0.5		53.3	0.10	3.40	2.54	1.95	97	0.74	0.21	-0.005	4.49	350.7	354.6
28.8	1.3		70.7	0.10	3.40	2.65	1.93	93	0.99	0.23	-0.004	5.29	350.0	
33.9	2.2		80.9	0.11	3.70	2.87	2.08	95	0.85	0.24	-0.004	5.24	350.4	354.5
46.8	3.6		115.4	0.12	4.01	3.11	2.34	104	0.65	0.25	-0.006	5.81	350.5	
46.9	4.3		120.6	0.12	3.95	3.05	2.28	118	0.86	0.25	-0.010	6.09	350.6	354.4
49.7	4.8		125.9	0.12	3.76	2.95	2.14	127	0.47	0.22	-0.016	4.98	350.7	
62.2	7.8		160.0	0.13	3.19	2.59	1.92	119	0.26	0.17	-0.024	4.41	350.8	354.3
76.3	10.7		196.7	0.13	3.64	2.68	2.06	119	0.89	0.23	-0.025	5.87	350.6	
90.6	13.5		234.0	0.13	3.76	2.94	2.24	132	0.54	0.22	-0.023	6.23	350.3	354.3
97.9	16.1		261.6	0.14	3.41	2.67	1.97	138	0.58	0.21	-0.031	5.87	350.9	
112.0	20.2		310.7	0.14	2.81	2.23	1.63	123	0.44	0.16	-0.047	4.96	350.4	354.2
144.0	25.4		408.9	0.15	3.07	2.38	1.76	92	0.79	0.19	-0.062	6.07	350.1	
167.7	28.7		481.6	0.15	3.24	2.73	1.92	94	0.26	0.17	-0.060	5.35	350.4	354.2
207.6	32.9		619.2	0.15	3.31	2.81	2.15	88	0.14	0.16	-0.102	6.46	350.5	
254.1	45.3		810.3	0.15	2.52	2.21	1.65	85	0.08	0.12	-0.364	7.13	350.1	354.3
336.2	65.5		1179.9	0.16	2.71	2.17	1.68	82	0.19	0.14	-0.267	8.27	350.4	
370.9	75.9		1447.3	0.15	2.92	2.47	1.99	74	0.15	0.14	-0.885	11.75	351.8	354.6
399.0	76.4		1454.5	0.15	3.44	2.93	2.23	68	0.24	0.18	-0.427	10.77	352.7	
436.8	74.0		1492.6	0.15	3.84	2.98	2.40	73	0.35	0.21	-0.302	10.88	353.7	354.7
209.9	50.1		851.5	0.14	3.39	2.78	2.16	68	0.31	0.18	-0.330	8.82	352.4	
430.0	58.7		1444.3	0.15	3.58	3.10	2.31	84	0.11	0.17	-0.231	8.17	352.2	354.8
458.4	72.4		1529.7	0.15	3.96	3.29	2.42	91	0.18	0.20	-0.115	8.42	352.1	
461.7	67.3		1520.0	0.15	4.44	3.59	2.87	87	0.26	0.24	-0.116	10.17	352.4	354.9
454.9	62.6		1494.7	0.15	4.60	3.72	2.72	90	0.29	0.25	-0.064	8.34	352.4	
443.4	60.7		1462.2	0.15	4.76	3.84	2.89	86	0.51	0.28	-0.076	10.16	352.0	354.9
420.7	60.8		1417.7	0.15	3.98	3.34	2.51	93	0.19	0.21	-0.078	8.44	352.2	
395.0	61.2		1364.3	0.16	3.58	3.03	2.22	83	0.15	0.18	-0.165	8.16	351.7	354.9
376.7	55.6		1299.8	0.16	3.93	3.26	2.41	79	0.22	0.20	-0.180	8.51	351.6	
351.0	46.7		1226.5	0.17	3.81	3.15	2.30	86	0.20	0.20	-0.126	7.92	351.9	355.0
326.0	37.3		1143.2	0.17	4.23	3.51	2.71	88	0.10	0.20	-0.125	7.77	352.6	
296.7	32.7		1058.3	0.18	4.43	3.65	2.55	83	0.36	0.25	-0.061	7.50	351.9	354.9
262.9	29.4		966.5	0.18	4.17	3.32	2.52	87	0.31	0.23	-0.099	8.40	352.1	
228.7	23.6		874.0	0.19	4.01	3.08	2.34	87	0.68	0.24	-0.070	8.45	352.2	355.0
194.6	16.1		781.4	0.20	3.91	2.97	2.29	88	0.61	0.23	-0.078	8.37	352.0	
161.4	9.0		683.9	0.21	3.65	2.83	2.09	86	0.40	0.21	-0.057	6.72	351.6	355.0
131.3	2.8		592.2	0.23	3.46	2.83	1.92	87	0.54	0.21	-0.067	6.27	351.8	
103.5	-1.4		507.0	0.23	3.47	2.85	2.05	80	0.30	0.19	-0.122	6.00	351.9	355.0
74.8	-3.9		420.0	0.24	3.30	2.62	1.91	93	0.76	0.21	-0.055	7.14	351.4	
49.3	-6.9		336.8	0.25	3.82	2.92	2.06	88	1.12	0.26	-0.019	6.65	351.4	355.1
27.9	-8.1		269.2	0.25	2.86	2.28	1.49	88	0.98	0.19	-0.023	4.91	351.0	
461.7	76.4		1529.7	0.25	4.76	3.84	2.89	138	1.78	0.28	-0.002	11.75	353.7	355.1
17.2	-8.1		35.6	0.10	2.52	2.17	1.49	68	0.08	0.12	-0.885	3.56	350.0	354.2
188.1	25.7		651.7	0.16	3.68	2.94	2.19	92	0.51	0.21	-0.104	6.83	351.3	354.7
16.3	2.2													

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	1.3	4.6	86.9	1.3	4.7	88.8	1.6	4.7	87.6	4.2	5.7	3.9		99.7	25.8
030	0.6	4.5	90.3	0.6	4.6	91.9	0.8	4.6	91.0	3.6	5.6	3.7		82.5	22.1
100	0.2	4.5	91.3	0.2	4.5	92.0	0.4	4.5	91.7	3.1	5.4	3.5		64.9	18.2
130	0.1	4.4	91.5	0.1	4.5	93.0	0.1	4.5	92.7	2.6	5.0	3.4		52.8	15.1
200	-0.2	4.4	92.9	-0.2	4.5	94.5	-0.2	4.5	94.3	2.2	4.6	3.2		48.0	12.9
230	-0.2	4.5	93.5	-0.2	4.5	95.5	-0.3	4.5	95.2	1.8	4.3	3.0		46.8	12.2
300	-0.1	4.5	93.0	-0.2	4.5	95.0	-0.2	4.5	94.9	1.6	4.0	2.8		50.2	12.8
330	-0.1	4.5	94.0	-0.1	4.6	95.2	-0.1	4.6	95.3	1.4	3.7	2.6		56.1	13.3
400	0.0	4.5	94.1	0.0	4.6	94.7	-0.1	4.6	95.4	1.3	3.4	2.4		66.3	15.9
430	0.1	4.6	95.0	0.2	4.6	94.8	0.3	4.7	94.7	1.3	3.2	2.2		82.3	17.8
500	0.4	4.6	93.7	0.5	4.7	93.4	0.6	4.7	93.1	1.4	3.1	1.9		98.3	19.8
530	0.8	4.7	91.3	0.9	4.7	91.5	1.1	4.7	90.8	1.6	3.0	1.8		116.5	22.9
600	1.5	4.8	89.2	1.6	4.8	88.4	1.9	4.8	87.5	1.9	2.9	1.7		132.9	26.3
630	1.9	4.9	89.2	2.0	4.9	89.1	2.2	4.9	87.7	2.1	2.9	1.8		109.5	19.9
700	2.3	5.2	91.7	2.5	5.2	91.2	2.8	5.3	89.9	2.3	2.9	1.7		142.8	23.2
730	2.5	5.2	90.3	2.8	5.2	89.0	3.7	5.3	84.4	3.3	3.0	1.6		282.3	50.9
800	2.4	4.9	86.7	2.8	5.0	84.7	3.8	5.0	80.1	3.8	3.0	1.5		314.8	58.5
830	2.1	4.9	86.9	2.5	4.9	85.3	3.5	4.9	80.7	3.7	3.1	1.5		327.2	58.8
900	2.1	4.8	86.3	2.4	4.8	84.9	3.5	4.9	79.9	3.8	3.2	1.5		333.4	56.8
930	2.1	4.7	84.8	2.5	4.8	83.4	3.5	4.8	78.6	4.0	3.3	1.5		309.0	49.0
1000	2.0	4.7	85.3	2.3	4.8	85.1	3.5	4.8	78.5	4.8	3.5	1.6		325.7	51.5
1030	1.8	4.7	85.8	2.1	4.7	84.0	3.4	4.8	78.5	4.6	3.5	1.7		337.2	52.1
1100	2.0	4.7	84.9	2.3	4.7	83.4	3.7	4.8	77.1	5.9	3.8	1.7		350.6	53.7
1130	1.9	4.7	85.7	2.3	4.8	84.8	3.8	4.8	77.5	6.6	4.0	1.8		375.9	58.1
1200	1.5	4.9	92.0	1.8	5.0	91.9	3.2	5.0	83.3	6.6	4.0	2.1		331.8	50.6
1230	1.5	5.0	94.1	1.9	5.1	92.1	3.1	5.1	84.5	6.4	4.2	1.5		326.2	48.8
1300	1.8	5.0	91.4	2.3	5.0	88.3	3.9	5.0	80.1	7.4	4.3	2.1		463.8	71.7
1330	1.6	5.0	93.2	1.9	5.1	92.4	3.5	5.1	83.3	7.5	4.3	2.2		391.5	60.4
1400	1.5	5.1	95.2	2.0	5.2	93.1	3.5	5.1	83.6	7.5	4.4	2.3		389.8	60.1
1430	1.6	4.9	91.1	2.1	4.9	88.5	3.5	5.0	80.9	7.3	4.5	2.4		377.9	57.3
1500	1.4	4.8	90.0	1.8	4.8	88.5	3.5	4.9	80.5	7.6	4.5	2.5		444.7	69.1
1530	1.2	4.8	91.9	1.6	4.9	89.8	3.3	4.9	81.2	8.0	4.7	2.6		450.3	70.5
1600	1.3	4.8	90.2	1.8	4.8	87.9	3.4	4.9	80.1	8.0	4.8	2.7		452.3	69.4
1630	1.2	4.8	91.1	1.8	4.8	87.7	3.2	4.8	80.6	7.8	4.9	2.8		394.0	62.0
1700	1.4	4.7	89.0	1.9	4.8	86.6	3.6	4.9	79.4	8.5	5.0	2.8		478.3	76.4
1730	1.2	4.8	90.5	1.7	4.8	88.7	3.1	4.9	81.8	8.4	5.2	2.9		366.3	56.6
1800	1.5	4.8	90.1	2.0	4.8	87.1	3.5	4.9	79.5	8.2	5.2	3.0		410.9	65.6
1830	1.6	4.7	88.1	2.0	4.8	86.2	3.5	4.8	78.9	8.3	5.2	2.9		371.6	60.7
1900	1.4	4.7	88.7	1.7	4.7	87.3	2.8	4.8	82.3	7.5	5.5	2.8		261.4	40.3
1930	1.3	4.7	89.4	1.6	4.7	87.9	2.4	4.7	83.5	6.3	5.1	2.6		163.2	22.9
2000	1.4	4.7	89.2	1.7	4.8	89.1	2.5	4.8	84.8	5.8	4.8	3.1		177.7	25.3
2030	1.2	5.0	95.3	1.5	5.1	95.1	2.2	5.2	91.5	5.8	4.3	3.1		178.2	27.3
2100	1.1	5.1	98.5	1.2	5.3	100.0	1.9	5.3	96.5	5.5	4.5	3.1		156.4	23.7
2130	1.0	5.1	99.0	1.1	5.2	100.0	1.8	5.2	96.3	5.0	4.0	3.4		141.0	21.3
2200	1.1	5.2	99.3	1.2	5.2	99.8	1.7	5.3	96.6	4.7	3.7	3.2		120.1	18.9
2230	1.1	5.0	97.1	1.2	5.2	98.3	1.7	5.1	94.5	4.4	3.7	3.5		121.0	20.4
2300	0.9	5.0	98.1	1.0	5.1	99.5	1.3	5.1	96.2	3.8	3.8	2.2		84.7	13.0
2330	1.1	5.2	100.0	1.2	5.3	100.0	1.4	5.3	100.0	3.6	3.5	2.7		64.5	8.3
Max	2.5	5.2	100.0	2.8	5.3	100.0	3.9	5.3	100.0	8.5	5.7	3.9		478.3	76.4
Min	-0.2	4.4	84.8	-0.2	4.5	83.4	-0.3	4.5	77.1	1.3	2.9	1.5		46.8	8.3
Ave	1.2	4.8	91.4	1.5	4.9	90.8	2.3	4.9	86.6	4.9	4.1	2.5		235.9	38.9
Sum														20.4	3.4

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
10.9	-8.7		214.5	0.26	2.87	2.28	1.50	75	1.02	0.19	-0.037	3.73	351.5	355.2 A
-1.6	-9.9		170.9	0.27	2.67	2.20	1.51	80	0.50	0.16	-0.044	3.00	352.2	
-13.0	-11.4		137.3	0.28	2.28	1.70	1.14	88	1.84	0.16	-0.015	3.96	352.0	355.2 A
-18.1	-12.5		113.6	0.29	2.05	1.49	0.90	80		0.16	-0.003	2.98	352.4	
-19.7	-13.1		100.5	0.27	1.77	1.26	0.78	62		0.15	0.014	1.65	353.1	355.3 A
-17.6	-13.1		96.4	0.26	1.47	0.93	0.48	38		0.14	0.007	2.81	353.1	
-19.1	-12.7		98.8	0.25	1.79	1.23	0.82	61		0.14	0.028	1.94	352.4	355.0
-19.1	-11.8		109.9	0.24	2.01	1.32	0.86	69		0.17	0.011	2.01	352.0	
-15.0	-10.7		133.5	0.24	1.55	1.05	0.60	80		0.13	0.005	2.18	352.1	354.9
-2.4	-8.8		171.7	0.22	0.64	0.33	0.32	103				3.81	353.2	
8.7	-7.0		213.7	0.20	0.36	0.26	0.24	73	0.72				354.6	354.8
24.3	-5.1		263.4	0.20	0.36	0.25	0.30	224					355.3	
39.5	-2.6		308.2	0.20	0.71	0.25	0.36	304				4.77	355.5	355.1
31.2	0.4		265.6	0.18	2.05	1.61	0.93	312	1.69	0.15	-0.023	4.20	355.5	
77.0	6.3		337.9	0.16	2.76	2.16	1.32	312	1.27	0.19	-0.024	5.04	355.5	354.9
177.7	18.8		656.1	0.18	3.34	2.55	1.70	305	0.91	0.22	-0.051	6.75	355.3	
194.9	20.6		742.9	0.19	3.56	2.97	1.76	311	1.11	0.25	-0.038	7.41	355.8	354.6
206.4	22.4		786.9	0.18	3.33	2.71	1.63	329	1.21	0.24	-0.039	7.32	355.9	
210.5	27.4		815.6	0.17	3.05	2.61	1.61	322	0.91	0.21	-0.049	7.39	356.2	354.7
200.4	28.2		741.0	0.16	3.16	2.56	1.58	309	1.07	0.22	-0.048	7.29	356.1	
220.6	31.3		773.6	0.16	3.27	2.80	1.74	296	0.67	0.21	-0.062	7.28	355.6	354.6
237.2	28.9		803.9	0.15	3.49	2.89	1.94	302	0.51	0.21	-0.062	7.44	354.7	
259.5	37.7		813.5	0.15	3.26	2.73	1.77	292	0.65	0.21	-0.067	7.64	354.3	354.2
279.3	38.6		860.7	0.15	3.88	3.15	1.98	288	0.95	0.26	-0.048	8.25	354.4	
249.4	32.3		766.5	0.15	4.20	3.36	2.27	291	0.56	0.25	-0.065	7.59	354.7	354.3
249.4	29.1		761.7	0.15	4.40	3.58	2.52	295	0.35	0.25	-0.055	7.69	355.2	
352.0	41.6		1059.6	0.15	4.54	3.76	2.58	299	0.39	0.26	-0.056	8.70	356.3	354.4
295.4	35.7		892.9	0.15	4.40	3.45	2.55	291	0.45	0.26	-0.055	8.33	355.7	
295.1	35.1		888.9	0.15	4.70	3.70	2.44	293	0.77	0.30	-0.042	8.74	356.0	354.4
288.9	31.7		865.8	0.15	4.69	3.83	2.66	298	0.43	0.27	-0.059	8.10	356.5	
336.3	37.8		1035.1	0.16	4.54	3.50	2.45	300	0.69	0.28	-0.049	8.73	357.4	354.5
333.9	39.6		1044.1	0.16	4.15	3.45	2.27	299	0.55	0.26	-0.058	8.58	357.4	
335.5	39.5		1078.8	0.15	4.10	3.36	2.42	309	0.28	0.23	-0.071	8.30	357.3	354.6
297.4	33.2		927.2	0.16	4.16	3.41	2.34	313	0.46	0.25	-0.055	8.48	357.3	
360.3	41.3		1117.2	0.16	3.75	3.09	1.97	312	0.72	0.24	-0.068	8.58	357.8	354.7
259.7	33.1		838.5	0.15	3.95	3.38	2.09	312	0.82	0.27	-0.040	8.53	357.8	
303.4	30.5		972.8	0.16	4.33	3.44	2.43	304	0.45	0.26	-0.057	8.48	357.1	354.7
279.3	29.7		861.9	0.16	3.89	3.23	2.28	305	0.32	0.22	-0.063	8.09	356.9	
194.4	20.9		613.2	0.15	3.80	3.10	1.98	315	0.97	0.26	-0.031	7.91	356.6	354.5
122.2	10.2		391.9	0.14	3.56	2.88	1.92	304	0.81	0.23	-0.032	7.05	356.9	
133.8	10.0		420.0	0.14	3.49	2.94	1.85	305	1.03	0.24	-0.026	7.12	356.4	354.6
133.9	11.7		413.9	0.15	3.42	2.84	1.90	315	0.70	0.22	-0.032	6.64	355.9	
116.5	9.4		359.8	0.15	3.64	2.81	1.86	312	0.95	0.24	-0.027	6.37	356.5	354.5
103.5	6.9		328.8	0.15	3.72	2.96	1.97	302	0.85	0.25	-0.022	6.60	356.2	
85.4	5.6		281.7	0.16	3.44	2.79	1.81	297	0.87	0.23	-0.021	6.11	355.8	354.5
65.2	1.9		293.7	0.17	3.49	2.70	1.86	300	0.75	0.22	-0.029	5.64	356.2	
50.1	-0.6		202.0	0.15	3.36	2.68	1.70	299	0.99	0.23	-0.016	5.65	356.3	354.4
47.8	0.9		143.2	0.13	3.36	2.65	1.69	295	1.00	0.22	-0.013	5.09	356.5	
360.3	41.6		1117.2	0.29	4.70	3.83	2.66	329	1.84	0.30	0.028	8.74	357.8	355.3
-19.7	-13.1		96.4	0.13	0.36	0.25	0.24	38	0.28	0.13	-0.071	1.65	351.5	354.2
152.9	14.6		547.7	0.18	3.14	2.50	1.66	250	0.80	0.22	-0.036	6.30	355.3	354.7
13.2	1.3													

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	0.9	5.2	100.0	1.0	5.2	100.0	1.2	5.3	100.0	3.3	3.3	2.5		66.2	10.6
030	0.8	5.1	99.2	0.9	5.1	99.9	1.0	5.1	99.5	2.8	2.8	2.8		50.0	7.9
100	0.9	5.1	99.5	1.0	5.2	99.6	1.0	5.1	98.5	2.4	3.0	2.5		36.4	4.0
130	0.8	5.1	99.5	0.9	5.1	99.0	0.9	5.1	98.5	2.2	2.9	1.9		34.0	3.9
200	0.8	5.1	99.5	1.0	5.1	98.8	1.0	5.1	98.6	2.1	2.4	2.6		38.0	4.5
230	1.1	5.2	99.3	1.2	5.2	98.8	1.3	5.2	98.4	2.2	2.1	2.5		27.7	3.1
300	1.0	5.2	99.3	1.2	5.2	99.1	1.2	5.2	98.4	2.1	2.6	1.7		25.9	2.1
330	0.9	5.2	100.0	1.0	5.2	100.0	1.1	5.2	99.9	2.0	2.1	1.6		31.4	5.1
400	1.1	5.2	99.7	1.2	5.3	100.0	1.3	5.3	99.8	2.0	2.3	1.5		35.9	3.8
430	1.1	5.2	99.9	1.2	5.3	100.0	1.3	5.3	100.0	2.0	2.3	1.4		33.8	3.2
500	1.1	5.2	100.0	1.1	5.3	100.0	1.2	5.3	100.0	2.0	1.9	1.6		50.3	7.1
530	0.8	5.1	99.9	0.9	5.2	100.0	1.0	5.2	100.0	2.0	2.2	1.1		50.1	6.3
600	0.8	5.1	99.6	0.8	5.2	100.0	1.0	5.2	100.0	2.0	1.9	1.3		59.0	8.1
630	0.9	5.1	100.0	1.0	5.3	100.0	1.2	5.3	100.0	2.2	1.8	1.4		72.5	9.4
700	0.9	5.1	100.0	1.0	5.2	100.0	1.3	5.3	100.0	2.5	1.9	1.9		113.1	15.6
730	0.8	5.1	100.0	0.9	5.3	100.0	1.4	5.3	100.0	2.8	2.0	1.5		135.3	19.9
800	0.8	5.1	100.0	1.0	5.2	100.0	1.5	5.4	99.9	3.3	2.1	1.2		175.3	26.9
830	0.7	5.1	100.0	0.9	5.2	100.0	1.6	5.3	98.5	3.5	2.4	1.7		230.3	36.7
900	0.7	5.0	98.3	1.0	5.1	98.9	1.9	5.3	95.5	3.8	2.5	1.5		298.0	49.5
930	0.8	5.0	97.5	1.2	5.1	96.1	2.6	5.1	88.4	3.7	2.6	1.4		381.1	62.5
1000	1.5	5.1	94.9	2.0	5.2	93.2	3.8	5.1	80.9	4.7	3.1	1.4		493.2	79.4
1030	1.8	5.1	93.4	2.3	5.2	91.9	4.3	5.1	79.1	5.8	3.7	1.4		588.4	94.6
1100	1.9	5.1	92.6	2.3	5.1	90.9	4.3	5.1	78.3	6.1	4.1	1.6		545.3	85.7
1130	2.0	5.0	90.7	2.3	5.1	91.1	4.5	5.0	76.8	6.2	4.6	1.7		559.7	85.9
1200	1.7	4.8	88.8	2.0	5.0	90.1	4.0	4.9	77.4	6.2	4.9	2.0		522.5	79.6
1230	1.4	4.8	90.3	1.7	5.0	91.9	3.7	4.9	79.5	6.3	5.0	2.2		551.0	82.3
1300	1.7	4.9	89.4	2.0	5.1	91.4	4.0	5.0	79.5	6.9	5.3	2.3		533.8	79.7
1330	1.3	4.8	90.7	1.6	4.9	91.0	3.5	5.0	81.2	7.4	5.3	2.6		513.5	77.8
1400	1.8	4.9	89.2	2.3	4.9	87.5	4.1	5.1	79.3	8.1	5.5	2.6		575.6	85.6
1430	2.4	5.0	87.7	3.0	4.9	83.4	4.9	5.2	77.0	9.3	5.8	2.8		665.7	99.3
1500	2.7	4.9	84.9	3.3	5.0	82.5	5.2	5.2	75.4	10.3	6.1	3.0		680.2	101.4
1530	2.9	5.0	84.7	3.4	5.0	82.6	5.4	5.2	74.5	11.1	6.5	3.2		633.9	94.2
1600	2.8	4.9	84.0	3.2	5.0	82.4	4.8	5.1	76.5	10.3	6.5	3.4		489.0	72.5
1630	2.4	4.9	85.2	2.9	4.9	84.2	4.2	5.1	78.6	9.6	6.5	3.6		398.0	58.1
1700	2.3	4.9	86.3	2.6	4.9	85.1	3.9	5.1	81.0	9.2	6.4	3.8		388.1	57.5
1730	2.5	4.9	85.1	2.8	5.0	84.7	4.1	5.1	79.7	9.5	6.4	3.9		372.2	55.5
1800	1.5	4.8	89.1	1.8	4.8	88.7	2.4	4.9	86.8	7.7	5.8	3.7		167.1	25.5
1830	1.2	4.8	91.4	1.5	4.9	91.8	2.0	5.0	91.0	6.2	5.8	3.4		137.9	19.1
1900	1.3	4.9	92.2	1.5	4.9	91.8	1.9	5.0	90.1	5.4	5.3	3.8		99.8	12.8
1930	1.1	4.8	92.9	1.3	4.9	92.4	1.6	4.9	90.6	4.7	5.0	3.6		87.9	11.5
2000	0.9	4.9	94.7	1.0	4.9	95.2	1.4	5.0	94.7	4.4	4.7	3.1		83.3	10.6
2030	0.7	4.9	96.6	0.9	5.0	98.1	1.0	5.1	98.6	3.9	4.4	3.7		56.3	5.9
2100	0.6	5.0	98.5	0.7	5.0	98.4	0.9	5.1	98.6	3.3	4.2	3.2		41.9	4.7
2130	0.5	4.9	99.0	0.6	5.0	99.7	0.8	5.0	98.5	3.0	4.0	3.1		37.6	3.9
2200	0.4	5.0	100.0	0.6	5.0	100.0	0.7	5.1	100.0	2.9	3.6	3.4		40.0	3.4
2230	0.5	5.0	99.7	0.6	5.1	100.0	0.7	5.1	100.0	2.8	3.4	3.3		49.8	3.4
2300	0.5	5.0	99.5	0.6	5.1	100.0	0.8	5.1	100.0	2.7	3.4	2.6		50.7	5.8
2330	0.4	4.9	99.4	0.5	5.0	99.9	0.6	5.0	100.0	2.5	3.1	3.0		32.0	1.9
Max	2.9	5.2	100.0	3.4	5.3	100.0	5.4	5.4	100.0	11.1	6.5	3.9		680.2	101.4
Min	0.4	4.8	84.0	0.5	4.8	82.4	0.6	4.9	74.5	2.0	1.8	1.1		25.9	1.9
Ave	1.3	5.0	95.0	1.5	5.1	94.8	2.3	5.1	91.2	4.7	3.9	2.4		236.2	35.2
Sum														20.4	3.0

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
35.5	-0.7		142.5	0.16	3.41	2.63	1.87	299	0.63	0.21	-0.013	4.92	355.9	354.5	
14.9	-4.7		108.1	0.16	3.35	2.58	1.79	300	0.77	0.21	-0.007	4.57	356.8		
7.6	-5.4		85.2	0.11	2.83	2.16	1.46	295	0.99	0.19	-0.006	4.15	357.0	354.5	
5.4	-6.0		77.6	0.11	3.10	2.35	1.59	289	0.95	0.20	-0.005	4.24	357.2		
13.6	-4.5		80.9	0.12	3.27	2.43	1.55	297	1.57	0.23	-0.006	4.93	356.9	354.4	
22.2	-1.0		56.7	0.11	3.21	2.25	1.53	295		0.25	-0.008	5.94	357.6		
16.7	-1.3		56.4		3.21	2.36	1.72	298	1.39	0.22	-0.009	5.21	357.3	354.4	
16.7	-1.5		68.9	0.16	3.25	2.51	1.67	301	0.96	0.22	-0.006	4.81	357.2		
26.6	0.1		77.0	0.11	3.40	2.68	1.85	304	0.57	0.21	-0.007	4.40	357.5	354.4	
24.7	0.7		76.0	0.09	3.33	2.60	1.81	298	0.71	0.21	-0.006	4.52	357.6		
38.9	2.0		108.1	0.14	3.64	2.95	1.99	309	0.64	0.23	-0.006	5.17	357.2	354.4	
41.1	3.0		108.4	0.13	3.36	2.53	1.76	315	0.89	0.22	-0.008	4.67	357.7		
48.1	3.4		134.8	0.14	3.21	2.60	1.55	316	1.39	0.24	-0.007	5.64	357.1	354.1	
58.9	5.9		162.7	0.13	3.70	2.86	1.87	310	0.94	0.24	-0.010	5.39	357.8		
91.2	9.0		246.6	0.14	3.69	2.94	1.87	319	1.03	0.25	-0.012	5.97	357.2	354.2	
107.5	12.0		298.8	0.15	3.70	2.83	1.86	317	1.01	0.25	-0.018	5.92	357.5		
131.8	15.5		391.9	0.15	3.08	2.50	1.61	324	0.79	0.20	-0.032	5.81	357.9	354.3	
160.5	16.9		521.7	0.16	3.23	2.68	1.68	329	0.82	0.21	-0.032	6.26	357.6		
190.3	21.3		719.4	0.17	3.13	2.57	1.72	329	0.57	0.20	-0.051	6.60	359.7		C
252.7	25.4		922.6	0.16	3.23	2.70	1.71	332	0.70	0.21	-0.069	7.59	359.4		
340.3	42.6		1171.7	0.16	3.04	2.46	1.62	307	0.72	0.20	-0.099	8.51	359.5		C
410.2	56.4		1377.9	0.16	2.57	2.23	1.66	320	0.13	0.13	-0.245	9.25	360.3		
366.2	57.6		1288.7	0.16	2.63	2.15	1.52	326	0.35	0.15	-0.188	8.81	360.5		C
379.9	57.2		1329.8	0.15	2.94	2.42	1.75	318	0.23	0.16	-0.196	8.98	359.9		
344.6	52.9		1234.3	0.15	3.18	2.73	1.90	304	0.25	0.18	-0.133	8.47	359.0		C
377.9	50.9		1308.7	0.15	3.27	2.70	1.83	315	0.52	0.20	-0.094	8.62	358.3		
360.8	54.5		1260.3	0.15	3.10	2.52	1.70	321	0.51	0.19	-0.114	8.36	358.7		C
372.9	41.7		1223.6	0.15	3.36	2.82	1.82	319	0.64	0.22	-0.078	8.44	357.3		
403.0	51.4		1379.2	0.15	3.34	2.78	1.93	327	0.39	0.20	-0.099	8.54	357.8		C
470.0	65.3		1593.7	0.15	3.23	2.76	1.78	318	0.56	0.20	-0.102	9.00	358.1		
490.8	64.8		1641.4	0.15	3.22	2.78	1.80	326	0.61	0.21	-0.085	8.94	357.3		C
458.3	62.8		1536.6	0.15	3.44	2.90	1.87	332	0.66	0.23	-0.079	9.12	356.4		
359.9	42.8		1204.7	0.15	3.54	2.85	1.99	328	0.46	0.21	-0.079	8.16	357.0	353.8	A
290.2	31.8		984.4	0.15	3.44	2.75	1.79	338	0.97	0.24	-0.050	8.11	356.8		
291.9	29.2		962.8	0.15	3.25	2.59	1.74	329	0.76	0.21	-0.058	7.57	356.9	353.7	A
280.5	33.3		919.6	0.15	3.35	2.66	1.97	245	0.30	0.19	-0.084	7.20	357.0		
126.6	11.6		417.2	0.15	3.62	2.76	2.05	79	0.91	0.25	-0.024	6.88	355.6	354.0	A
112.1	3.2		347.9	0.14	3.81	2.84	2.10	115	0.95	0.26	-0.017	6.77	355.3		
81.4	0.9		250.4	0.13	3.72	2.79	1.93	347	1.08	0.26	-0.016	6.58	353.6	354.2	A
72.3	-2.3		222.7	0.13	3.47	2.69	1.75	307	1.39	0.26	-0.013	6.72	353.9		
67.0	-0.7		211.2	0.13	3.50	2.52	1.71	276	1.59	0.26	-0.012	6.26	355.8	354.3	
47.0	-3.6		140.1	0.11	3.56	2.56	1.64	305		0.28	-0.006	6.42	355.6		
38.2	-5.5		106.7	0.11	3.91	2.78	1.82	344	1.85	0.29	-0.006	6.44	355.3	354.3	
34.0	-5.9		94.8	0.10	3.40	2.21	1.66	283		0.27	-0.009	6.58	355.7		
33.0	-4.5		92.1		3.32	2.17	1.65	197		0.27	-0.009	6.53	355.3	354.4	
41.6	-2.9		114.0		3.46	2.31	1.77	162		0.27	-0.008	6.42	356.3		
43.7	-1.6		118.7	0.11	3.87	2.49	1.87	282		0.33	-0.005	7.61	356.0	354.5	
29.3	-3.3		70.3		4.01	2.78	2.03	147		0.31	-0.004	7.24	354.9		
490.8	65.3		1641.4	0.17	4.01	2.95	2.10	347	1.85	0.33	-0.004	9.25	360.5	354.5	
5.4	-6.0		56.4	0.09	2.57	2.15	1.46	79	0.13	0.13	-0.245	4.15	353.6	353.7	
167.3	18.1		563.5	0.14	3.35	2.60	1.77	294	0.81	0.22	-0.046	6.73	357.2	354.3	
14.5	1.6														

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	0.2	4.9	99.3	0.2	4.9	100.0	0.3	4.9	100.0	2.1	3.0	2.8		12.1	0.0
030	0.2	4.8	97.8	0.2	4.9	100.0	0.2	4.9	100.0	1.9	3.1	2.3		11.0	0.6
100	0.1	4.8	98.2	0.2	4.9	100.0	0.2	4.9	100.0	1.9	2.5	2.7		18.7	1.4
130	0.0	4.8	98.7	0.0	4.9	100.0	0.1	4.9	100.0	1.7	2.8	2.2		11.0	0.5
200	-0.1	4.8	99.0	0.0	4.8	99.9	0.0	4.8	99.8	1.6	2.5	2.2		8.8	0.0
230	-0.1	4.8	100.0	-0.1	4.9	100.0	0.0	4.8	100.0	1.5	2.2	2.5		10.8	0.0
300	-0.2	4.8	100.0	-0.1	4.8	100.0	-0.1	4.9	100.0	1.4	2.4	2.3		11.0	0.0
330	-0.2	4.8	100.0	-0.2	4.8	100.0	-0.1	4.9	100.0	1.3	2.4	2.0		8.9	0.0
400	-0.2	4.8	100.0	-0.1	4.9	100.0	-0.1	4.9	100.0	1.2	2.3	1.9		10.9	0.0
430	-0.2	4.8	100.0	-0.1	4.8	100.0	0.0	4.9	100.0	1.2	2.2	1.8		13.8	0.0
500	-0.1	4.8	100.0	0.0	4.9	100.0	0.1	4.9	100.0	1.3	2.2	1.7		20.9	1.1
530	-0.2	4.8	100.0	-0.1	4.9	100.0	0.1	4.9	100.0	1.4	2.1	1.6		24.6	1.8
600	0.0	4.8	99.9	0.0	4.9	100.0	0.2	5.0	100.0	1.5	2.1	1.5		29.4	2.3
630	0.1	4.9	99.9	0.2	5.0	100.0	0.5	5.0	100.0	1.9	2.0	1.2		64.7	8.0
700	0.4	5.0	100.0	0.5	5.1	100.0	0.9	5.1	99.4	2.6	2.0	1.6		80.5	7.8
730	0.5	4.9	97.0	0.6	5.0	98.9	0.8	5.1	100.0	2.7	1.7	1.6		78.2	7.4
800	0.5	4.9	98.2	0.7	5.0	100.0	1.1	5.3	100.0	3.1	2.0	1.0		111.3	13.5
830	0.9	5.0	97.9	1.1	5.1	98.8	1.5	5.4	100.0	3.7	2.2	1.0		96.3	11.6
900	1.4	5.2	96.8	1.6	5.2	96.2	1.8	5.5	100.0	3.9	2.5	1.6		107.5	9.6
930	1.9	5.2	94.7	2.0	5.3	95.7	2.3	5.6	98.4	4.9	2.6	1.8		152.9	17.4
1000	1.8	5.3	96.6	2.0	5.5	98.9	2.4	5.6	98.9	4.8	2.7	1.5		137.2	16.0
1030	2.4	5.4	94.8	2.6	5.5	95.3	3.3	5.7	95.0	5.4	3.0	1.3		182.0	24.9
1100	1.7	5.3	97.9	1.9	5.5	99.7	2.5	5.7	99.2	5.8	2.9	2.2		194.7	24.5
1130	1.8	5.4	98.3	2.0	5.5	98.3	2.5	5.7	98.6	5.7	3.6	1.2		188.0	23.1
1200	2.1	5.4	96.9	2.3	5.6	98.7	2.8	5.8	98.5	5.8	3.6	1.0		189.5	25.9
1230	2.3	5.4	95.8	2.5	5.6	97.8	3.0	5.9	98.6	6.2	4.0	0.6		220.3	30.8
1300	2.3	5.5	97.3	2.5	5.6	98.3	3.1	5.8	97.9	6.3	3.6	1.2		212.7	31.4
1330	2.4	5.5	96.6	2.6	5.6	98.1	3.2	5.8	97.1	6.3	4.0	1.3		260.1	37.9
1400	3.2	5.7	94.7	3.5	5.8	95.3	4.3	5.9	91.4	7.4	3.9	1.5		294.8	44.6
1430	3.3	5.6	92.9	3.5	5.7	93.2	4.2	5.8	89.5	7.3	4.4	1.7		241.3	35.1
1500	3.5	5.5	89.6	3.9	5.7	90.2	4.8	5.7	85.4	7.8	4.6	1.8		311.4	45.1
1530	3.7	5.5	88.1	4.0	5.6	88.3	4.9	5.7	84.3	7.9	4.7	2.6		310.1	45.0
1600	3.6	5.4	87.8	3.9	5.5	88.1	4.7	5.6	84.0	7.9	4.8	2.2		280.0	40.7
1630	3.6	5.4	88.1	3.8	5.5	87.3	4.7	5.5	83.4	8.0	5.3	1.9		309.7	44.4
1700	3.8	5.4	86.4	4.1	5.5	86.1	5.1	5.6	81.8	8.5	5.3	3.0		343.0	47.8
1730	3.8	5.4	86.4	4.0	5.5	86.1	4.9	5.5	81.6	8.7	5.1	3.4		323.7	45.6
1800	3.8	5.3	85.1	4.1	5.4	84.7	5.0	5.4	80.3	8.4	5.5	2.7		343.8	53.0
1830	4.2	5.3	82.1	4.5	5.4	81.8	5.6	5.4	76.4	9.1	5.5	2.9		424.4	70.0
1900	4.1	5.3	82.5	4.3	5.3	82.3	5.5	5.3	76.0	9.8	5.7	2.8		382.7	64.9
1930	4.2	5.2	81.4	4.4	5.3	80.9	5.5	5.3	74.8	9.1	5.8	2.9		404.3	72.9
2000	3.7	5.2	83.6	3.9	5.2	83.0	5.0	5.2	77.1	8.8	5.7	2.9		345.1	64.9
2030	3.7	5.3	85.2	3.9	5.3	83.6	4.9	5.2	76.9	8.4	5.7	3.0		304.6	59.3
2100	3.2	5.2	87.1	3.5	5.3	86.3	4.0	5.3	83.3	7.3	5.4	2.9		177.1	29.4
2130	2.4	5.1	89.2	2.5	5.1	88.6	2.9	5.2	87.3	6.4	5.6	2.9		103.3	14.2
2200	1.7	5.0	91.6	1.8	5.0	91.2	2.2	5.0	89.1	5.4	5.1	2.4		80.3	12.0
2230	1.5	4.9	92.0	1.6	5.0	92.1	1.9	5.0	90.6	5.0	4.4	2.7		97.2	16.0
2300	1.1	4.8	93.0	1.2	4.9	94.3	1.5	5.0	94.3	4.1	4.5	2.4		106.1	21.3
2330	1.1	5.0	95.9	1.2	5.1	96.7	1.5	5.1	95.3	4.0	4.4	2.6		94.8	16.4
Max	4.2	5.7	100.0	4.5	5.8	100.0	5.6	5.9	100.0	9.8	5.8	3.4		424.4	72.9
Min	-0.2	4.8	81.4	-0.2	4.8	80.9	-0.1	4.8	74.8	1.2	1.7	0.6		8.8	0.0
Ave	1.8	5.1	94.0	1.9	5.2	94.5	2.4	5.3	93.0	5.0	3.7	2.1		161.4	23.7
Sum														13.9	2.1

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
12.4	-5.7		26.7		3.35	2.29	1.80	18		0.26	-0.004	5.80	355.0	354.9
12.6	-6.0		26.6		2.81	2.18	1.52	11	1.10	0.19	-0.003	4.26	357.2	
17.0	-4.7		36.4		2.75	2.09	1.49	32	1.52	0.20	-0.006	4.85	357.0	354.9
12.4	-4.8		23.2		2.38	1.74	1.29	107	0.93	0.16	-0.005	3.48	356.7	
10.7	-5.2		18.1		2.86	1.91	1.55	70		0.22	-0.006	5.10	356.9	354.9
10.6	-4.9		17.5		2.41	1.78	1.24	57	1.37	0.17	-0.008	4.10	356.6	
12.2	-4.5		20.4		2.63	1.86	1.36	182	1.80	0.19	-0.008	4.74	356.3	355.0
10.7	-4.5		17.5		2.47	1.86	1.37	75	1.15	0.17	-0.008	4.19	356.9	
13.2	-4.0		21.9		2.91	2.29	1.64	29	0.64	0.18	-0.006	3.98	357.1	355.2 A
15.4	-3.0		28.1		2.29	1.78	1.32	23	0.45	0.13	-0.016	3.24	357.3	
21.3	-1.2		43.4		1.62	1.23	0.86	35	0.82	0.11	-0.030	2.93	357.3	355.2 A
24.0	0.1		51.5		1.78	1.36	1.03	60	0.60	0.11	-0.039	3.36	357.5	
28.5	1.3		63.4		1.76	1.30	1.00	31	0.97	0.11	-0.048	3.63	357.2	355.1 A
59.0	6.2		138.9	0.12	1.43	1.06	0.81	40	0.91	0.09	-0.092	4.06	356.8	
66.8	12.6		172.2	0.10	1.49	1.21	0.87	74	0.33	0.08	-0.140	4.11	356.6	354.9
63.1	10.9		165.2	0.09	2.26	1.80	1.27	90	0.63	0.14	-0.023	3.86	355.1	
94.3	13.6		245.8	0.12	1.92	1.52	1.06	117	1.05	0.13	-0.055	4.57	353.3	354.8
79.7	15.4		214.2	0.12	1.34	1.02	0.82	158	0.47	0.08	-0.193	4.34	354.0	
89.7	16.0		246.0	0.09	0.91	0.65	0.48	117	1.48	0.06	-0.185	4.05	355.1	354.8
120.8	24.7		339.6	0.11	1.19	0.93	0.68	95	0.45	0.07	-0.171	3.97	355.3	
110.8	19.7		313.9	0.12	2.13	1.77	1.24	82	0.30	0.12	-0.093	4.08	348.1	354.8
146.1	24.7		424.3	0.14	2.26	1.86	1.32	75	0.33	0.12	-0.204	5.32		
154.3	27.0		439.3	0.13	2.86	2.38	1.75	75	0.16	0.14	-0.086	4.95	362.6	354.7
152.2	24.0		429.8	0.12	3.10	2.61	1.87	83	0.29	0.17	-0.051	5.27	361.8	
154.7	23.4		443.7	0.14	3.04	2.46	1.84	89	0.40	0.18	-0.034	5.35	361.8	354.6
179.8	27.3		523.2	0.14	3.28	2.57	1.86	81	0.72	0.20	-0.059	6.05	361.4	
174.5	25.6		507.1	0.15	4.00	3.14	2.33	84	0.56	0.24	-0.036	6.78	360.8	354.6
215.1	25.6		612.1	0.15	4.34	3.42	2.41	88	0.67	0.27	-0.022	6.70	360.7	
237.6	35.7		693.8	0.15	3.71	3.07	2.24	87	0.28	0.20	-0.057	6.29	361.2	354.6
194.7	29.4		571.4	0.15	4.06	3.30	2.33	89	0.46	0.24	-0.027	6.64	361.5	
251.0	34.9		732.3	0.14	4.10	3.29	2.45	84	0.50	0.24	-0.055	8.02	361.1	354.6
248.7	33.2		728.6	0.15	4.38	3.63	2.59	92	0.35	0.25	-0.031	7.07	362.4	
223.3	31.1		666.9	0.15	4.25	3.60	2.55	87	0.32	0.24	-0.031	6.93	362.5	354.5
248.9	31.1		739.1	0.14	4.49	3.67	2.65	90	0.34	0.25	-0.035	6.83	362.2	
274.2	35.5		826.1	0.14	4.52	3.59	2.70	90	0.58	0.27	-0.044	8.44	362.3	354.4
241.2	34.4		801.6	0.14	4.41	3.68	2.71	87	0.23	0.24	-0.036	7.04	362.1	
242.9	29.2		869.9	0.15	5.16	3.82	2.79	95	1.46	0.36	-0.021	9.65	361.9	354.4
305.8	31.9		1070.5	0.16	4.64	3.76	2.65	93	0.44	0.27	-0.039	7.51	361.9	
267.2	36.3		938.4	0.17	4.63	3.84	2.83	83	0.40	0.26	-0.058	8.36	362.7	354.5
282.9	33.5		1015.5	0.18	4.82	3.99	2.94	88	0.24	0.26	-0.038	7.28	364.1	
230.4	24.8		870.5	0.19	4.87	3.95	2.93	96	0.48	0.28	-0.041	8.44	364.2	354.3
200.3	18.9		771.0	0.19	4.56	3.77	2.81	90	0.18	0.23	-0.046	6.67	363.7	
123.4	12.9		432.7	0.17	4.19	3.45	2.45	98	0.38	0.24	-0.025	6.17	363.1	354.4
85.9	10.7		243.1	0.14	3.61	3.12	2.10	92	0.70	0.24	-0.014	6.37	362.9	
72.5	5.5		192.1	0.15	3.78	3.13	2.26	86	0.33	0.21	-0.019	5.49	358.1	354.4
56.3	4.9		242.1	0.16	3.57	2.79	2.05	75	0.81	0.22	-0.027	5.71	357.1	
40.1	-2.9		265.5	0.20	3.65	2.80	2.16	88	0.84	0.24	-0.014	6.11	357.7	354.5
46.7	0.5		215.8	0.17	3.02	2.46	1.97	88	0.48	0.18	-0.024	5.45	358.7	
305.8	36.3		1070.5	0.20	5.16	3.99	2.94	182	1.80	0.36	-0.003	9.65	364.2	355.2
10.6	-6.0		17.5	0.09	0.91	0.65	0.48	11	0.16	0.06	-0.204	2.93	348.1	354.3
123.7	15.0		385.4	0.14	3.17	2.52	1.84	80	0.65	0.19	-0.048	5.57	359.0	354.7
10.7	1.3													

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	0.6	5.0	99.0	0.6	5.1	100.0	0.8	5.1	99.5	3.6	4.0	2.8		58.9	8.1
030	0.5	5.0	99.6	0.6	5.0	100.0	0.7	5.1	99.9	3.3	3.8	2.2		51.6	8.4
100	0.5	5.0	99.6	0.5	5.1	100.0	0.7	5.0	99.7	3.0	3.7	2.2		32.0	2.7
130	0.8	5.0	98.1	0.8	5.1	100.0	0.9	5.1	98.7	2.9	3.4	2.1		24.4	2.4
200	0.9	5.0	97.4	1.0	5.1	97.9	1.1	5.1	97.7	2.8	3.0	2.9		20.6	0.1
230	1.0	4.9	95.6	1.0	5.0	96.3	1.1	5.0	95.6	2.6	3.4	1.4		16.7	1.9
300	1.0	4.9	94.4	1.0	4.9	95.4	1.1	5.0	95.3	2.6	2.9	2.5		18.7	0.9
330	1.2	4.9	93.7	1.3	5.0	95.0	1.4	5.0	94.0	2.6	3.0	1.4		19.0	1.3
400	1.6	5.1	94.1	1.7	5.1	93.4	1.9	5.1	92.9	2.6	3.0	1.9		20.9	0.2
430	1.8	5.0	92.4	1.8	5.1	93.6	1.9	5.1	92.5	2.6	3.0	1.5		17.2	0.3
500	1.6	5.0	92.4	1.7	5.1	93.2	1.9	5.1	92.2	2.6	2.5	2.0		18.2	0.2
530	2.5	5.2	90.9	2.6	5.3	91.5	2.7	5.3	90.5	2.7	2.4	1.8		22.0	1.5
600	3.0	5.4	90.8	3.2	5.4	89.7	3.4	5.4	88.7	2.9	2.6	2.4		24.8	
630	4.0	5.6	88.0	4.2	5.6	88.1	4.3	5.6	86.8	3.2	2.2	1.7		42.6	5.3
700	4.5	5.8	88.3	4.7	5.8	87.6	4.8	5.7	85.7	3.5	2.8	1.5		49.0	4.6
730	5.3	6.0	87.2	5.5	6.1	86.7	5.6	6.0	84.9	3.8	2.7	1.6		56.4	6.4
800	6.0	6.2	85.8	6.2	6.2	84.9	6.4	6.1	82.8	4.2	2.8	1.4		64.6	8.3
830	6.5	6.3	83.8	6.7	6.3	83.2	6.9	6.2	80.8	4.7	3.1	1.2		86.4	11.2
900	7.3	6.4	82.1	7.5	6.5	81.1	7.8	6.4	78.7	5.5	2.9	1.8		122.2	15.9
930	8.1	6.7	81.2	8.3	6.8	80.2	8.7	6.7	77.4	6.1	3.8	1.0		129.8	16.5
1000	8.9	7.0	79.7	9.2	7.0	78.8	9.7	6.9	75.4	6.9	3.8	1.4		171.9	25.1
1030	9.4	7.1	79.3	9.6	7.2	78.6	10.0	7.0	74.9	7.4	3.7	2.2		190.1	25.8
1100	10.0	7.2	76.9	10.3	7.3	76.1	10.8	7.1	72.3	7.9	4.4	2.1		228.4	31.8
1130	10.3	7.3	76.8	10.7	7.4	75.9	11.1	7.2	72.1	8.3	4.3	1.5		224.8	32.0
1200	9.5	7.2	78.7	9.8	7.2	77.5	10.2	7.0	73.3	8.2	5.0	0.0		208.5	33.5
1230	6.3	6.2	83.9	6.6	6.3	83.7	7.4	6.2	78.4	8.0	5.1	2.0		258.0	39.2
1300	6.6	6.3	83.7	7.0	6.3	82.1	8.0	6.3	76.4	8.3	5.1	2.6		303.5	44.4
1330	5.9	6.3	87.4	6.2	6.4	86.7	7.0	6.3	82.0	8.0	5.1	2.5		224.1	33.0
1400	5.8	6.5	91.4	6.1	6.6	90.4	6.8	6.5	86.1	7.7	5.0	2.8		168.3	23.7
1430	5.3	6.4	93.0	5.5	6.6	93.4	6.0	6.5	89.7	7.0	4.9	3.4		130.8	15.3
1500	5.4	6.5	94.4	5.7	6.7	94.0	6.3	6.7	91.3	7.2	4.7	3.2		183.8	25.2
1530	6.3	6.6	88.8	6.7	6.7	88.2	7.6	6.7	83.9	8.5	5.2	2.7		281.2	40.2
1600	6.8	6.5	85.4	7.1	6.6	84.4	8.1	6.6	79.5	9.2	5.2	3.1		291.3	41.1
1630	6.7	6.4	84.0	7.0	6.4	83.5	8.0	6.4	78.3	9.4	5.5	2.8		255.8	36.9
1700	6.4	6.5	87.0	6.7	6.5	86.2	7.6	6.5	81.7	9.0	5.6	2.8		242.1	34.6
1730	7.0	6.5	84.3	7.3	6.5	82.1	8.4	6.6	77.8	9.9	6.0	1.9		321.7	47.5
1800	7.4	6.5	82.3	7.8	6.6	81.3	8.7	6.7	77.4	10.6	6.5	2.9		321.3	47.6
1830	7.6	6.5	80.6	7.9	6.6	80.5	8.7	6.6	77.1	10.8	6.3	3.3		307.4	46.7
1900	7.7	6.5	80.1	8.0	6.6	80.6	8.8	6.7	76.7	10.9	6.5	3.3		274.0	41.7
1930	8.6	6.7	78.0	8.9	6.8	77.5	9.7	6.7	73.4	11.1	6.7	3.8		266.6	39.7
2000	8.3	6.6	78.9	8.6	6.7	77.5	9.2	6.6	74.3	10.6	6.8	3.5		219.2	33.6
2030	8.4	6.6	77.9	8.8	6.6	76.7	9.3	6.6	73.7	10.4	6.8	3.6		191.1	28.9
2100	8.4	6.6	77.9	8.7	6.7	77.4	9.0	6.6	74.7	9.6	6.7	3.7		169.2	25.9
2130	8.6	6.8	79.7	9.0	6.9	78.2	9.4	6.8	75.0	9.3	6.7	3.8		154.8	24.6
2200	9.1	7.1	79.9	9.4	7.2	80.2	9.8	7.0	75.4	8.9	6.8	4.1		175.6	34.9
2230	8.6	6.9	81.0	8.8	7.0	80.9	8.8	6.9	79.6	7.5	6.3	3.8		121.5	25.7
2300	8.3	6.7	80.0	8.6	6.8	79.3	8.6	6.9	80.6	6.8	5.9	4.0		142.3	34.7
2330	8.2	6.6	79.7	8.4	6.7	78.6	8.3	6.5	77.7	6.2	5.7	3.7		117.8	30.2
Max	10.3	7.3	99.6	10.7	7.4	100.0	11.1	7.2	99.9	11.1	6.8	4.1		321.7	47.6
Min	0.5	4.9	76.8	0.5	4.9	75.9	0.7	5.0	72.1	2.6	2.2	0.0		16.7	0.1
Ave	5.7	6.1	86.4	5.9	6.2	86.0	6.4	6.2	83.4	6.5	4.5	2.5		146.7	22.1
Sum														12.7	1.9

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
30.3	-0.8		133.8	0.14	2.97	2.31	1.82	87	0.92	0.20	-0.013	5.18	358.4	354.6
37.0	-0.3		109.6	0.16	3.29	2.65	2.07	85	0.42	0.19	-0.015	5.06	358.6	
29.6	-0.8		68.4	0.08	3.59	2.75	2.06	91	0.97	0.23	-0.009	5.21	358.5	354.6
28.7	0.1		52.1	0.10	3.21	2.50	1.87	88	0.69	0.20	-0.010	4.60	358.1	
26.7	0.5		42.0		3.07	2.36	1.80	86	0.77	0.19	-0.014	4.67	358.8	354.5
27.8	0.5		37.6	0.11	3.07	2.52	1.92	95	0.31	0.17	-0.011	4.15	359.5	
28.5	0.7		37.0		3.33	2.58	2.03	98	0.52	0.20	-0.009	4.46	359.9	354.7
29.7	1.2		40.3		3.31	2.57	1.81	108	1.23	0.23	-0.006	5.40	359.6	
29.3	2.5		43.7		2.59	1.99	1.54	114	0.74	0.16	-0.022	4.42	359.9	354.6
27.0	3.5		36.7		1.99	1.55	1.23	92	0.50	0.12	-0.032	3.42	360.7	
27.0	3.6		39.2		1.71	1.33	1.06	110	0.41	0.10	-0.053	3.55	360.8	354.9 D
29.5	4.9		49.7		1.75	1.38	1.11	115	0.54	0.11	-0.043	3.67	361.0	
30.3	5.8		55.8		2.10	1.65	1.22	139	0.50	0.13	-0.033	3.78	361.8	354.8 V
44.0	8.9		102.3	0.12	2.44	1.91	1.49	126	0.93	0.16	-0.023	4.81	361.8	
47.5	11.0		116.4	0.09	3.20	2.44	1.94	121	0.68	0.20	-0.021	5.19	361.8	356.1 D
52.6	12.8		137.3	0.11	3.17	2.56	1.88	135	0.50	0.19	-0.019	4.78	360.9	
57.7	15.4		158.9	0.13	2.73	2.13	1.50	137	0.77	0.18	-0.024	4.59	359.0	355.5 D
74.6	18.4		212.6	0.13	2.54	2.06	1.51	127	0.31	0.14	-0.036	4.30	358.8	
99.6	22.6		292.7	0.13	3.07	2.47	1.70	138	0.61	0.19	-0.025	5.40	357.8	354.7
104.1	25.9		312.2	0.13	2.76	2.25	1.65	147	0.37	0.16	-0.035	5.09	357.0	
136.3	31.0		412.0	0.15	3.09	2.49	1.86	158	0.34	0.18	-0.034	5.49	355.9	354.6
146.7	33.1		449.8	0.14	3.44	2.89	1.93	174	0.57	0.22	-0.021	6.00	356.2	
176.6	35.7		541.4	0.14	4.04	3.22	2.32	171	0.46	0.24	-0.021	6.44	355.7	353.1 V
171.9	35.9		534.0	0.14	4.25	3.42	2.50	176	0.33	0.24	-0.024	6.20	355.8	
159.1	34.4		498.5	0.16	4.32	3.43	2.40	222	0.54	0.26	-0.022	6.23	355.9	353.9 V
205.4	32.8		614.3	0.15	4.36	3.38	2.31	292	0.88	0.29	-0.023	7.79	358.9	
239.1	37.9		719.4	0.15	4.30	3.33	2.29	303	0.70	0.27	-0.036	7.56	358.1	354.8 V
177.9	30.3		533.7	0.15	3.44	2.83	1.86	315	0.66	0.22	-0.036	6.70	358.6	
132.9	25.8		403.6	0.14	3.76	3.03	2.00	303	0.88	0.25	-0.026	6.76	358.5	355.1 V
106.3	18.9		321.5	0.12	2.98	2.42	1.62	315	0.95	0.21	-0.022	5.97	359.3	
149.1	23.6		454.1	0.14	2.10	1.76	1.16	307	0.73	0.14	-0.065	5.50	358.2	354.8 D
219.4	38.4		682.1	0.14	2.95	2.27	1.61	292	0.58	0.18	-0.075	6.41	358.1	
224.2	41.2		706.2	0.14	2.85	2.31	1.48	292	0.80	0.19	-0.067	6.72	358.2	354.6 V
191.6	37.7		621.2	0.14	2.26	1.97	1.37	294	0.24	0.13	-0.117	6.16	358.8	
183.1	32.6		594.8	0.14	2.02	1.73	1.17	322	0.45	0.13	-0.131	6.08	359.4	354.6 V
240.8	43.6		787.2	0.15	2.09	1.81	1.25	319	0.44	0.13	-0.115	6.58	357.9	
232.2	46.4		777.7	0.15	2.02	1.64	1.11	246	0.71	0.13	-0.107	6.28	356.9	354.1
225.2	43.1		741.1	0.15	2.04	1.65	1.30	104	0.23	0.11	-0.123	5.72	357.7	
195.6	42.1		650.4	0.15	2.35	1.81	1.51	52	0.27	0.13	-0.173	7.19	359.0	354.1
185.0	40.9		634.4	0.15	1.86	1.59	1.25	66	0.04	0.08	-0.406	6.37	359.0	
152.3	31.2		520.3	0.15	2.15	1.85	1.41	91	0.08	0.10	-0.150	5.39	358.6	354.2
122.9	28.1		455.6	0.15	2.14	1.85	1.42	101	0.09	0.10	-0.127	5.05	358.4	
106.4	22.0		403.2	0.15	2.51	2.06	1.48	94	0.29	0.14	-0.056	4.60	357.5	354.2
102.7	19.2		367.2	0.16	2.87	2.28	1.70	121	0.30	0.16	-0.055	5.21	357.3	
74.1	13.7		429.1	0.20	3.45	2.62	1.85	116	0.74	0.22	-0.030	5.74	356.7	354.2
18.4	4.0		305.7	0.21	3.04	2.32	1.74	119	0.82	0.19	-0.016	5.03	356.6	
23.8	2.0		334.1	0.24	3.06	2.34	1.57	112	1.13	0.21	-0.010	5.02	357.3	354.2
0.7	0.8		266.4	0.26	3.12	2.30	1.64	119	1.00	0.20	-0.008	4.44	357.6	
240.8	46.4		787.2	0.26	4.36	3.43	2.50	322	1.23	0.29	-0.006	7.79	361.8	356.1
0.7	-0.8		36.7	0.08	1.71	1.33	1.06	52	0.04	0.08	-0.406	3.42	355.7	353.1
107.5	20.1		350.8	0.15	2.89	2.30	1.67	163	0.58	0.18	-0.053	5.42	358.5	354.6
9.3	1.7													

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Time h	Ta1 C 130cm	AH1 g/m3	RH1 %	Ta2 C 73cm	AH2 g/m3	RH2 %	Ta3 C 32cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	7.7	6.6	81.7	7.8	6.7	82.5	7.7	6.7	82.8	5.6	5.4	4.1		97.5	25.2
030	7.2	6.8	86.6	7.3	6.8	87.0	7.2	6.8	86.8	5.1	5.2	3.7		78.6	22.0
100	6.4	6.6	88.7	6.4	6.6	89.6	6.3	6.6	89.0	4.5	5.0	3.4		63.2	19.6
130	5.3	6.3	91.8	5.2	6.4	93.0	5.0	6.3	93.3	4.0	4.6	3.5		53.8	16.6
200	4.9	6.4	95.1	4.8	6.4	96.2	4.7	6.4	95.9	3.6	4.4	3.4		50.1	13.7
230	4.7	6.4	96.6	4.7	6.5	97.4	4.5	6.3	96.9	3.2	4.1	3.2		51.0	13.2
300	5.0	6.5	95.5	5.0	6.6	96.9	5.0	6.5	95.9	3.2	4.0	3.1		63.5	14.8
330	6.0	6.8	94.2	6.1	6.9	95.2	6.0	6.8	94.6	3.5	3.9	2.9		67.3	15.3
400	6.0	6.9	95.3	6.0	7.0	96.9	6.0	6.9	96.2	3.7	3.9	2.8		82.1	18.6
430	6.4	7.0	95.2	6.4	7.2	96.3	6.5	7.1	95.2	4.0	3.8	2.6		98.5	21.8
500	7.3	7.3	92.3	7.5	7.4	93.1	7.6	7.4	91.8	4.4	3.9	2.6		116.7	25.4
530	7.2	7.1	91.1	7.3	7.2	92.0	7.4	7.2	90.9	4.4	3.8	2.5		123.7	25.7
600	8.5	7.3	85.9	8.7	7.4	85.8	8.9	7.4	84.5	4.5	3.9	2.5		129.0	26.1
630	9.6	7.6	83.1	9.7	7.7	83.3	9.9	7.7	82.4	4.9	4.0	2.4		151.5	29.5
700	10.2	7.6	80.5	10.3	7.8	81.4	10.5	7.8	80.5	5.4	4.1	2.4		171.6	31.3
730	10.5	7.7	80.2	10.6	7.8	80.1	10.9	7.8	78.9	5.8	4.2	2.4		190.9	34.6
800	11.1	7.8	77.4	11.3	7.9	77.3	11.8	7.9	75.3	5.8	4.3	2.3		230.2	42.0
830	12.7	7.8	70.0	12.8	7.8	69.7	13.5	7.9	67.7	6.4	4.4	2.2		304.0	55.0
900	13.4	7.6	65.9	13.4	7.6	65.5	14.1	7.7	63.4	6.7	4.7	2.4		349.0	61.9
930	13.9	7.4	61.9	14.0	7.4	61.3	14.8	7.5	59.1	7.1	4.9	2.3		393.7	67.2
1000	14.4	7.5	60.8	14.5	7.4	60.0	15.4	7.5	57.5	7.5	5.3	2.4		436.5	72.2
1030	15.0	7.2	56.1	15.1	7.0	54.6	16.1	7.2	52.4	7.8	5.6	2.5		476.8	76.5
1100	15.5	7.0	53.0	15.6	6.8	51.1	16.7	6.9	48.9	8.3	6.0	2.5		514.7	81.0
1130	15.8	7.0	52.2	16.0	6.7	49.4	17.1	6.9	47.2	8.7	6.4	2.7		549.1	85.2
1200	16.3	6.9	50.1	16.5	6.7	47.8	17.8	6.9	45.5	9.3	6.8	2.8		580.3	88.6
1230	16.5	7.0	49.8	16.7	6.7	47.3	18.0	6.9	44.8	9.9	7.2	3.1		601.2	90.8
1300	16.9	7.0	48.9	17.1	6.7	45.9	18.5	6.9	43.4	10.5	7.6	3.2		630.3	94.6
1330	17.1	7.2	49.9	17.4	7.0	47.5	18.7	6.9	43.2	11.1	7.8	3.5		582.6	87.2
1400	17.1	7.1	48.9	17.3	7.0	47.9	18.3	6.8	43.8	11.5	7.9	3.7		504.2	74.5
1430	17.0	7.2	49.6	17.2	7.2	49.3	18.2	7.0	45.3	11.7	8.0	3.9		505.4	74.7
1500	17.1	7.3	50.6	17.2	7.5	51.2	18.2	7.0	45.5	12.0	8.1	4.1		476.7	69.7
1530	17.4	7.5	50.7	17.4	8.4	56.9	18.3	7.2	46.4	12.3	8.2	4.2		400.3	58.5
1600	16.8	7.7	54.1	16.9	8.3	58.1	17.4	7.4	50.2	11.8	8.2	4.4		304.9	43.7
1630	14.6	7.1	56.7	14.8	7.2	57.1	15.6	7.1	53.0	12.0	8.3	4.6		356.6	54.5
1700	12.3	6.9	64.2	12.5	6.8	62.4	13.4	6.9	59.8	12.2	8.4	4.8		254.9	37.2
1730	11.5	7.2	69.9	11.7	7.1	68.4	12.2	7.2	67.1	10.7	8.1	4.9		138.0	19.2
1800	11.3	7.3	72.2	11.4	7.3	71.4	11.9	7.4	70.3	10.2	7.9	4.9		126.7	17.4
1830	11.1	7.7	76.3	11.2	7.7	76.4	11.4	7.7	75.0	9.7	7.7	4.9		102.7	14.1
1900	12.4	7.8	71.5	12.4	8.0	73.4	12.7	8.2	73.5	10.1	7.7	4.8		141.4	19.4
1930	13.3	7.9	68.6	13.3	8.1	70.4	13.7	8.2	69.3	10.4	7.7	4.7		157.6	22.0
2000	14.2	7.4	60.9	14.3	8.3	67.7	14.7	7.7	61.5	10.3	7.7	4.7		146.9	21.1
2030	13.7	7.3	61.9	13.8	7.5	62.6	14.4	7.4	59.9	10.7	7.5	4.6		190.1	28.7
2100	13.1	7.3	64.6	13.2	7.4	64.7	13.5	7.5	64.0	11.1	7.6	4.8		160.7	23.5
2130	13.4	6.9	59.6	13.5	7.0	59.7	13.7	6.9	58.7	10.5	7.5	4.6		171.8	31.8
2200	11.8	6.9	66.0	12.0	7.0	66.2	12.4	6.9	63.5	9.8	7.3	4.7		174.3	37.2
2230	10.4	6.7	69.4	10.5	6.7	69.8	10.7	6.8	69.2	8.8	7.1	4.7		101.2	17.9
2300	9.6	6.9	75.1	9.6	6.9	75.5	9.4	7.0	77.1	7.7	6.9	4.7		41.1	5.2
2330	9.6	7.0	76.2	9.7	7.0	76.5	9.6	7.1	77.9	7.5	6.7	4.7		27.5	2.2
Max	17.4	7.9	96.6	17.4	8.4	97.4	18.7	8.2	96.9	12.3	8.4	4.9		630.3	94.6
Min	4.7	6.3	48.9	4.7	6.4	45.9	4.5	6.3	43.2	3.2	3.8	2.2		27.5	2.2
Ave	11.6	7.2	70.8	11.7	7.2	71.0	12.2	7.2	69.1	7.9	6.1	3.6		244.2	40.2
Sum														21.1	3.5

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-18.4	-0.8	16.5	211.9	0.26	3.32	2.56	1.88	113	0.82	0.21	0.000	3.95	356.6	354.1
-35.2	-2.0	16.5	167.7	0.28	3.28	2.52	1.82	118	0.31	0.18	0.003	3.06	357.2	
-40.9	-3.1	16.5	136.0	0.31	3.66	2.62	1.71	123	1.96	0.27	0.004	4.91	357.2	354.0
-41.0	-6.0	16.5	112.8	0.31	3.19	2.22	1.69	112	1.22	0.21	0.028	2.87	358.3	
-41.8	-6.3	16.5	98.5	0.27	3.52	2.58	1.95	118	0.71	0.21	0.014	3.49	358.3	354.2
-37.8	-5.5	16.5	97.2	0.26	3.72	2.74	1.90	123	1.20	0.25	0.006	4.62	358.2	
-18.1	-2.0	16.5	116.1	0.23	3.57	2.70	1.84	126	1.16	0.24	0.002	4.26	358.3	354.1 V
-22.9	1.7	16.5	123.9	0.23	4.05	3.00	2.25	125	0.72	0.25	0.002	4.18	357.3	
4.7	5.1	16.5	152.3	0.23	4.28	3.17	2.29	113	0.92	0.27	0.001	4.73	356.9	352.9 D
15.6	8.0	16.5	189.6	0.22	4.52	3.59	2.56	127	0.23	0.24	-0.005	4.03	355.6	
27.1	11.3	16.5	231.3	0.22	4.59	3.62	2.62	120	0.36	0.26	-0.008	4.94	354.4	351.6 D
25.2	8.9	16.5	267.7	0.21	4.42	3.37	2.59	123	0.46	0.25	-0.010	4.56	353.6	
33.2	10.0	5.5	289.7	0.20	4.69	3.65	2.49	132	0.39	0.26	-0.010	4.78		350.9 A
49.8	13.6	0.0	353.1	0.20	4.71	3.75	2.59	135	0.29	0.26	-0.008	4.55		
91.2	18.6	0.0	400.5	0.18	5.14	4.27	2.87	149	0.24	0.28	-0.007	5.01		350.8 A
92.9	20.2	0.0	468.2	0.18	5.26	4.01	2.89	154	0.34	0.29	-0.009	5.43		
114.9	19.5	0.0	574.7	0.18	5.16	4.08	2.81	152	0.41	0.29	-0.013	5.79		351.2 D
174.6	27.2	0.0	752.2	0.18	6.16	4.91	3.37	159	0.31	0.34	-0.011	6.74		
211.0	32.3	0.0	861.4	0.18	6.67	5.32	3.93	170	0.14	0.33	-0.014	5.85		351.8 A
247.9	37.1	0.0	966.6	0.17	7.24	5.68	3.86	166	0.37	0.41	-0.010	7.40		
282.7	40.9	0.0	1061.3	0.17	7.16	5.70	4.01	170	0.26	0.39	-0.011	7.44		351.6 A
314.0	45.0	0.0	1149.5	0.16	7.20	5.89	4.01	175	0.25	0.39	-0.012	7.54		
343.4	50.4	0.0	1226.9	0.16	7.52	6.13	4.28	177	0.20	0.39	-0.016	7.02		351.6 A
371.8	53.1	0.0	1304.8	0.16	8.24	6.57	4.70	181	0.21	0.43	-0.013	7.89		
393.8	57.4	0.0	1381.1	0.15	7.79	6.08	4.52	176	0.28	0.41	-0.021	8.41		351.5 A
409.6	56.9	0.0	1426.1	0.15	8.36	6.60	4.65	180	0.26	0.45	-0.014	8.32		
430.9	57.8	0.0	1484.3	0.15	8.30	6.60	4.97	183	0.12	0.40	-0.020	7.58		351.4 A
395.9	54.9	0.0	1384.2	0.15	7.96	6.29	4.63	192	0.18	0.40	-0.028	6.86		
345.4	47.6	0.0	1203.3	0.15	8.50	6.23	4.68	194	0.72	0.52	-0.016	9.49		351.4 A
351.6	45.6	0.0	1211.6	0.15	8.24	6.30	4.63	201	0.56	0.48	-0.017	9.10		
337.2	44.9	0.0	1154.8	0.15	7.95	6.24	4.33	197	0.77	0.49	-0.020	8.40		I
280.7	42.7	0.0	906.5	0.15	7.18	5.75	4.29	200	0.12	0.34	-0.018	5.87		
220.7	33.0	0.0	747.1	0.14	7.50	6.06	4.18	195	0.29	0.40	-0.012	5.77		I
258.8	37.7	0.0	877.5	0.15	6.16	5.01	3.41	247	0.29	0.33	-0.019	6.33		
172.7	37.2	0.0	617.7	0.15	3.96	3.07	2.08	278	0.41	0.22	-0.047	5.08		351.3 D
93.2	21.9	0.0	350.5	0.14	3.26	2.53	1.59	295	0.74	0.20	-0.029	4.43		
84.8	20.1	0.0	322.4	0.14	2.55	2.00	1.13	313	1.15	0.17	-0.032	4.08		351.6 V
63.9	18.1	0.0	264.5	0.14	0.55	0.33	0.14	153		0.05	-0.158	2.35		
78.3	24.5	0.0	361.8	0.14	0.44	0.32	0.22	126	1.12	0.03		4.92		350.8 A
86.5	27.0	0.0	403.0	0.14	0.13	0.15	0.09	202	1.05	0.01		6.20		
86.8	24.4	0.0	378.8	0.14	2.35	1.73	1.20	214	1.11	0.15	-0.057	4.30		350.8 A
116.3	28.0	0.1	467.3	0.15	1.40	1.05	0.75	173	0.41	0.08	-0.291	3.86		
76.9	23.9	-12.3	400.4	0.15	1.64	1.39	0.92	169	0.25	0.09	-0.076	2.91	357.1	350.8 A
82.6	18.3	21.4	429.6	0.19	3.15	2.23	1.84	235	0.69	0.19	-0.043	3.74	354.9	
68.1	12.1	21.7	417.3	0.21	3.24	2.52	1.77	278	0.41	0.18	-0.038	4.28	355.4	350.4 D
30.3	9.6	13.6	245.3	0.18	1.56	1.10	0.85	266	1.55	0.11	-0.090	2.91	356.7	
12.8	4.8	0.5	106.2	0.13	0.80	0.28	0.28	205		0.09	0.324	0.75	357.7	351.3 V
11.8	6.7	-6.9	67.4	0.08	0.77	0.46	0.29	192		0.07	0.136	0.73	358.6	
430.9	57.8	21.7	1484.3	0.31	8.50	6.60	4.97	313	1.96	0.52	0.324	9.49	358.6	354.2
-41.8	-6.3	-12.3	67.4	0.08	0.13	0.15	0.09	112	0.12	0.01	-0.291	0.73	353.6	350.4
138.2	23.6	5.0	581.7	0.18	4.69	3.65	2.59	176	0.58	0.27	-0.015	5.24	356.8	351.8
11.9	2.0	0.4												

IBP site July 10

Time h	Ta1 C	AH1 g/m3	RH1 %	Ta2 C	AH2 g/m3	RH2 %	Ta3 C	AH3 g/m3	RH3 %	Ts1 C	Ts2 C	Ts3 C	Ts4 C	Rsd W/m2	Rsu W/m2
	130cm			73cm			32cm			-1cm	-5cm	-10cm	-20cm		
000	9.8	7.0	75.6	9.8	7.0	76.1	9.7	7.1	76.9	7.3	6.5	4.5		26.9	2.3
030	9.7	7.1	77.3	9.7	7.2	77.8	9.6	7.1	78.3	7.0	6.3	4.5		24.1	2.4
100	9.1	6.9	78.5	9.0	7.0	79.2	8.8	7.0	80.1	6.4	6.1	4.4		21.1	1.8
130	9.0	7.2	82.3	9.0	7.3	83.1	8.8	7.2	83.4	6.3	5.9	4.3		18.7	1.9
200	8.8	7.3	83.8	8.8	7.3	84.9	8.5	7.3	85.3	6.0	5.7	4.2		35.1	5.2
230	5.9	6.3	87.7	5.8	6.4	88.7	5.5	6.3	89.2	5.0	5.4	4.1		28.3	5.6
300	5.5	6.3	90.4	5.0	6.3	92.3	4.5	6.1	93.4	4.4	5.1	4.0		23.7	2.8
330	6.2	6.6	89.5	6.1	6.6	90.5	5.7	6.5	92.2	4.3	4.9	3.9		36.0	5.5
400	7.1	6.8	88.1	7.1	6.9	88.9	6.8	6.9	90.2	4.6	4.7	3.6		60.3	12.1
430	7.5	7.0	87.6	7.4	7.1	89.4	7.1	7.0	89.8	4.5	4.6	3.5		58.5	10.5
500	8.1	6.7	81.0	8.1	6.8	82.6	7.8	6.8	84.0	4.6	4.5	3.4		67.5	12.2
530	8.9	6.6	75.6	8.8	6.7	77.5	8.6	6.7	78.4	5.0	4.4	3.2		79.1	13.8
600	9.1	6.7	75.6	9.1	6.8	76.7	9.0	6.8	77.5	5.6	4.5	3.1		58.0	8.0
630	8.9	6.7	76.6	8.9	6.8	77.9	8.8	6.8	78.5	5.6	4.5	3.1		42.5	5.4
700	8.8	6.7	77.3	8.9	6.8	78.1	8.8	6.8	78.7	5.8	4.5	3.0		61.9	7.8
730	8.5	6.8	79.8	8.5	6.9	80.8	8.4	6.9	81.6	5.8	4.5	3.0		42.5	5.2
800	7.8	7.1	87.3	7.8	7.3	89.4	7.7	7.3	90.5	5.8	4.5	3.0		56.0	6.7
830	8.1	7.1	85.7	8.1	7.2	87.1	8.1	7.3	88.3	6.3	4.5	2.9		107.7	13.6
900	7.9	7.0	85.1	8.0	7.1	86.8	8.0	7.2	87.5	6.2	4.5	2.9		90.6	11.7
930	8.5	7.1	83.8	8.6	7.3	84.9	8.8	7.4	85.0	7.8	4.8	2.5		177.2	23.9
1000	210cm			120cm			30cm								
1000	9.3	7.2	80.6	9.4	7.3	80.9	9.7	7.4	80.6	10.0	4.8	2.9		299.4	48.9
1030	9.4	7.2	79.8	9.5	7.2	79.9	9.5	7.3	80.2	10.8	5.4	2.3		313.2	48.0
1100	10.5	7.4	76.3	10.6	7.4	76.6	10.5	7.5	77.0	12.8	5.6	2.7		395.7	60.6
1130	11.3	7.4	72.9	11.4	7.5	73.2	11.4	7.5	73.2	14.2	6.0	2.5		452.6	68.2
1200	12.5	7.5	68.3	12.6	7.5	67.5	12.6	7.5	68.3	17.0	6.0	3.7		644.2	98.5
1230	13.3	7.5	65.1	13.3	7.5	64.9	13.3	7.6	65.7	17.3	6.7	3.6		594.6	89.0
1300	13.8	7.6	63.5	13.8	7.5	63.4	13.9	7.6	64.0	18.0	7.2	3.4		591.9	87.6
1330	14.4	7.6	61.6	14.3	7.5	61.1	14.3	7.6	61.9	18.7	8.0	2.3		578.6	86.4
1400	14.3	7.6	62.5	14.3	7.6	61.9	14.3	7.5	61.1	21.8	7.6	3.6		628.7	96.4
1430	12.5	7.5	68.3	12.5	7.6	69.0	12.5	7.4	67.9	23.5	8.4	3.2		630.3	97.1
1500	11.2	7.5	73.8	11.1	7.4	73.8	11.1	7.4	73.5	21.5	8.8	4.2		613.3	91.9
1530	11.1	7.6	75.2	11.1	7.6	75.3	11.1	7.5	74.7	21.5	8.3	4.5		599.1	89.3
1600	11.8	7.7	73.8	11.7	7.7	73.8	11.8	7.6	72.7	22.1	9.0	3.8		582.8	87.6
1630	12.2	7.8	72.5	12.1	7.8	72.5	12.0	7.7	72.9	22.1	8.7	5.0		583.3	89.9
1700	12.1	7.8	72.6	12.1	7.8	73.1	12.0	7.7	72.7	21.1	9.0	4.9		572.2	90.2
1730	11.2	7.7	76.4	11.2	7.7	76.7	11.4	7.7	75.1	19.0	9.2	5.1		521.2	85.4
1800	10.5	7.6	79.0	10.9	7.6	77.0	11.8	7.6	72.5	17.2	8.9	5.3		458.1	80.8
1830	9.9	7.5	80.8	10.2	7.6	79.5	11.2	7.5	74.6	13.1	9.1	4.9		336.5	57.0
1900	9.7	7.4	80.9	10.0	7.5	80.1	10.7	7.5	76.8	11.5	8.9	5.6		240.0	37.8
1930	9.6	7.4	81.3	9.9	7.4	80.0	10.5	7.4	77.0	11.4	9.0	5.4		210.8	31.7
2000	9.7	7.4	81.0	9.9	7.5	80.6	10.4	7.5	78.2	10.4	8.5	4.5		158.1	25.6
2030	9.9	7.6	81.5	10.0	7.6	80.7	10.4	7.6	78.9	10.0	8.2	5.5		171.7	25.8
2100	9.4	7.5	83.3	9.5	7.6	83.3	9.8	7.5	81.6	9.4	7.7	5.5		125.8	18.6
2130	9.2	7.5	84.9	9.2	7.6	85.3	9.4	7.5	83.7	8.7	7.7	5.2		83.7	11.2
2200	9.4	7.7	85.1	9.5	7.7	85.1	9.7	7.6	82.9	8.6	7.5	5.0		106.7	17.6
2230	9.3	7.7	86.0	9.4	7.8	86.2	9.5	7.7	85.3	8.2	6.9	5.3		67.5	8.8
2300	9.8	7.9	85.1	9.9	8.0	85.9	9.9	7.9	85.0	8.1	6.8	5.0		57.0	7.7
2330	10.4	8.1	84.1	10.5	8.2	84.7	10.5	8.1	84.4	8.1	6.8	5.0		27.8	1.2
Max	14.4	8.1	90.4	14.3	8.2	92.3	14.3	8.1	93.4	23.5	9.2	5.6		644.2	98.5
Min	5.5	6.3	61.6	5.0	6.3	61.1	4.5	6.1	61.1	4.3	4.4	2.3		18.7	1.2
Ave	9.8	7.3	78.9	9.8	7.3	79.3	9.9	7.3	79.0	11.1	6.6	4.0		245.0	37.4
Sum														21.2	3.2

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
13.4	6.5	-11.4	63.5	0.09	1.40	0.82	0.43	173		0.13	0.018	2.00	359.9	351.4	V
3.8	6.0	-12.7	57.0	0.10	2.07	1.43	0.91	160		0.15	0.016	2.56	360.3		
-4.1	3.6	-14.6	48.0	0.09	2.64	1.75	1.25	177		0.19	0.029	2.79	358.6	353.8	V
1.6	4.6	-17.2	37.8	0.10	2.60	1.85	1.29	177	1.41	0.18	0.016	3.02	360.0		
-11.2	4.0	-21.4	73.1	0.15	2.73	2.02	1.47	184	0.79	0.17	0.032	2.67	358.8	351.1	V
-19.9	-2.5	-28.2	58.2	0.20	2.34	1.44	1.05	273		0.18	0.053	2.44	357.3		
-5.8	-5.3	-47.6	53.9	0.12	1.39	0.72	0.26	191		0.16	0.133	2.57	361.0	351.3	V
-9.4	-3.0	-54.5	75.3	0.15	1.88	0.94	0.55	206		0.19	0.060	2.63	359.8		
-7.6	1.1	-44.2	113.1	0.20	2.73	1.84	1.41	197	1.56	0.18	0.037	2.33	357.3	351.8	D
-22.9	1.8	-22.2	121.6	0.18	3.13	2.01	1.60	208	1.87	0.22	0.028	3.34	356.5		
-15.9	2.7	-15.3	141.7	0.18	4.76	3.62	2.60	230	0.72	0.29	0.013	4.61	355.4	350.7	D
4.2	7.5	-6.8	164.8	0.17	6.13	4.60	3.51	233	0.59	0.36	0.006	6.09	354.9		
21.9	11.5	0.3	135.2	0.14	6.28	4.93	3.67	235	0.43	0.35	0.002	6.29	355.0	351.2	D
13.9	10.7	2.4	102.2	0.13	6.18	4.67	3.51	238	0.86	0.39	0.003	6.37	355.6		
34.5	12.2	1.1	148.4	0.13	6.35	5.00	3.73	240	0.37	0.35	0.001	5.83	355.7	351.6	D
20.3	11.7	13.4	103.7	0.12	6.06	5.04	3.67	241	0.47	0.35	0.002	5.91	355.7		
41.1	11.8	24.2	137.5	0.12	5.48	4.49	3.30	240	0.40	0.31	0.002	5.84	356.2		I
81.3	16.9	24.8	259.5	0.13	5.91	4.84	3.46	244	0.57	0.35	-0.002	6.12	355.4		
63.1	14.8	13.7	227.3	0.13	6.28	4.65	3.52	246	1.01	0.40	-0.001	6.62	356.2		I
111.4	20.0	3.5	437.6	0.13	6.09	4.81	4.25	237	0.37	0.34	-0.014	4.59	354.9		
186.7	30.9	0.3	718.3	0.16	4.95	5.66	5.42	250	0.37	0.34		10.05	354.7	353.1	V
203.3	26.4	0.4	770.4	0.15	4.31	5.26	5.13	245	0.37	0.34	-0.213		355.3		
279.1	44.7	0.5	935.3	0.15	5.06	6.22	6.26	250	0.37	0.34	-0.014		356.0	352.9	V
310.7	49.2	0.6	1103.9	0.15	4.78	5.76	5.52	251	0.37	0.34	-0.294	1.47	355.6		
464.1	67.2	0.7	1486.0	0.15	5.28	6.38	6.55	251	0.37	0.34	-0.047		355.9	352.4	
405.0	66.7	0.8	1382.9	0.15	5.11	6.14	5.86	247	0.37	0.34	0.021	0.52	356.0		
399.6	65.7	0.8	1388.4	0.15	4.73	5.53	5.42	250	0.37	0.34	-0.048	0.83	356.1	352.4	
385.2	66.8	0.8	1350.9	0.15	4.65	5.43	5.06	253	0.37	0.34	0.027	1.06	356.0		
417.9	73.3	0.9	1462.2	0.15	4.03	4.35	4.31	268	0.37	0.34	0.005	0.69	356.5	352.2	
416.8	75.6	0.9	1474.6	0.15	3.77	3.63	3.71	282		0.04		0.03	359.7		
416.0	66.4	0.9	1430.0	0.15	4.70	4.57	4.73	287		0.04	0.066		357.1	353.1	D
413.7	61.2	0.9	1420.2	0.15	4.21	4.13	4.13	282		0.02	0.000	0.19	356.5		
396.2	69.1	0.9	1384.3	0.15	3.62	3.59	3.62	282		0.03		2.66	357.2	353.7	A
408.9	61.5	0.8	1392.4	0.15	4.17	4.45	4.27	287		0.03			357.2		
406.3	57.7	0.8	1362.6	0.16	4.91	4.96	4.99	288		0.03			355.7	353.7	A
365.0	48.5	0.7	1246.5	0.16	4.81	4.71	4.54	284		0.05		2.93	355.6		
330.7	38.0	0.6	1101.5	0.18	5.70	3.65	1.22	276		0.65	-0.009	12.33	353.9	353.3	D
226.8	29.2	0.4	823.7	0.17	5.18	4.16	3.14	285	0.18	0.26	-0.036	6.61	355.3		
175.3	23.0	0.3	583.9	0.16	4.35	3.40	2.59	282	0.36	0.24	-0.037	6.58	357.7	353.0	A
147.5	23.4	0.2	492.0	0.15	4.52	3.73	2.58	275	0.19	0.23	-0.030	5.04	356.5		
115.7	15.7	0.2	383.0	0.16	4.94	3.86	2.75	267	0.40	0.28	-0.019	5.78	355.1	353.0	A
120.8	16.2	0.2	406.7	0.15	6.09	4.98	3.36	276	0.28	0.33	-0.009	5.99	355.0		
90.1	13.0	0.1	295.8	0.15	5.90	4.81	3.29	270	0.26	0.32	-0.007	5.57	354.8	353.3	D
58.7	8.5	0.1	201.7	0.13	6.48	5.14	3.68	267	0.21	0.34	-0.004	5.74	355.1		
83.0	10.5	0.1	253.1	0.17	6.52	5.21	3.51	260	0.36	0.36	-0.005	6.27	354.8	354.2	V
48.9	8.4	0.0	157.1	0.13	6.50	5.16	3.37	257	0.51	0.38	-0.002	6.73	354.7		
33.7	9.0	0.0	135.7	0.14	6.78	4.84	3.46	261	1.19	0.45	-0.001	7.81	354.0	354.2	V
21.0	9.3	0.0	65.2	0.04	5.52	4.21	2.84	253	0.73	0.34	0.000	5.93	355.4		
464.1	75.6	24.8	1486.0	0.20	6.78	6.38	6.55	288	1.87	0.65	0.133	12.33	361.0	354.2	
-22.9	-5.3	-54.5	37.8	0.04	1.39	0.72	0.26	160	0.18	0.02	-0.294	0.03	353.9	350.7	
159.2	26.5	-4.1	578.5	0.14	4.67	4.07	3.35	246	0.57	0.27	-0.005	4.41	356.4	352.6	
13.8	2.3	-0.4													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	10.8	8.4	84.9	10.8	8.4	85.8	10.7	8.4	85.4	7.9	6.7	5.0		15.9	
030	10.5	8.4	87.1	10.4	8.5	88.1	10.4	8.4	87.3	7.7	6.3	5.0		18.3	1.6
100	10.0	8.3	88.2	10.0	8.3	88.9	10.1	8.3	88.0	7.5	6.7	3.7		21.0	3.8
130	9.8	8.2	88.5	9.8	8.2	89.2	9.8	8.2	88.5	7.4	6.3	4.5		13.1	0.4
200	8.7	7.8	90.3	8.8	7.8	90.6	8.7	7.8	90.5	7.1	6.2	4.7		20.9	1.7
230	9.6	8.0	88.0	9.6	8.1	89.2	9.5	8.1	89.0	6.8	5.9	4.3		24.1	2.1
300	9.9	8.3	88.8	9.9	8.3	89.8	9.8	8.3	90.0	6.9	5.6	4.5		15.5	0.5
330	10.5	8.5	87.3	10.5	8.6	88.7	10.4	8.5	88.4	7.0	6.0	4.2		15.5	
400	11.1	8.1	80.7	11.1	8.2	81.2	11.0	8.1	81.6	7.4	6.2	3.3		22.2	2.2
430	10.0	8.0	85.2	10.0	8.0	85.3	9.9	8.0	86.1	7.4	6.0	3.6		21.7	3.5
500	10.0	7.9	84.7	10.0	8.0	85.6	10.0	8.0	85.5	7.4	5.6	4.0		41.5	5.4
530	9.7	7.9	86.0	9.7	8.0	87.0	9.7	8.0	86.7	7.4	5.8	3.6		27.1	3.9
600	9.6	7.9	86.8	9.6	8.0	87.7	9.6	8.0	87.6	7.3	5.7	3.6		41.5	4.6
630	10.1	8.1	86.1	10.1	8.2	86.7	10.1	8.2	86.3	7.6	5.8	3.9		89.1	12.1
700	10.0	8.0	85.5	10.0	8.1	86.1	10.1	8.1	85.7	7.7	5.8	3.9		94.5	13.3
730	10.0	8.0	85.1	10.0	8.0	85.4	10.0	8.0	85.5	7.5	6.0	3.2		132.9	20.0
800	10.4	8.0	82.9	10.5	8.0	83.1	10.8	8.0	81.4	8.1	5.4	4.3		239.7	42.1
830	10.2	7.8	82.9	10.3	7.9	82.8	10.6	7.9	80.8	8.1	6.0	3.6		285.5	49.5
900	9.9	7.7	82.3	10.1	7.7	81.5	10.6	7.7	79.2	8.2	6.0	3.5		337.1	58.2
930	9.8	7.5	81.6	9.9	7.6	81.2	10.3	7.6	78.9	8.4	6.5	2.6		305.8	50.8
1000	8.8	7.3	84.1	9.0	7.3	83.6	9.3	7.3	81.7	7.8	5.7	4.0		260.9	39.4
1030	8.7	7.2	84.3	8.8	7.3	83.6	9.3	7.3	81.0	7.9	6.0	3.9		317.3	47.5
1100	8.0	7.1	85.6	8.2	7.1	85.7	8.7	7.1	82.9	7.8	5.9	4.1		313.8	45.2
1130	7.4	6.9	87.7	7.6	7.0	86.8	8.1	6.9	83.9	7.5	6.2	3.2		289.8	42.9
1200	7.5	6.9	87.3	7.7	6.9	85.9	8.3	7.0	83.2	7.5	5.9	4.4		360.5	50.7
1230	7.5	6.9	85.9	7.9	6.9	84.2	8.6	6.9	80.5	8.0	5.9	3.9		504.7	73.7
1300	7.8	6.8	83.7	8.2	6.8	81.8	9.2	6.9	77.3	8.8	6.3	3.9		598.6	87.8
1330	7.5	6.7	84.0	8.0	6.7	81.8	9.1	6.7	76.5	9.2	6.4	3.8		631.0	93.8
1400	7.5	6.7	83.7	8.0	6.7	80.9	9.1	6.7	75.5	9.6	6.8	4.3		643.0	92.9
1430	7.4	6.6	83.3	7.8	6.6	80.5	9.0	6.6	75.4	9.8	6.8	3.8		645.9	95.2
1500	6.6	6.4	85.1	7.2	6.3	81.0	8.6	6.4	74.4	10.0	6.8	4.2		644.6	95.3
1530	7.3	6.5	82.0	7.8	6.4	78.7	9.1	6.5	73.0	10.3	6.9	4.3		634.6	93.3
1600	7.8	6.5	80.1	8.2	6.5	77.4	9.4	6.5	72.4	10.3	7.2	3.5		618.4	94.2
1630	8.3	6.6	78.8	8.7	6.6	76.7	9.8	6.7	71.8	10.5	7.3	4.1		598.2	92.0
1700	8.1	6.5	78.7	8.5	6.5	76.4	9.6	6.5	71.5	10.4	7.2	4.7		566.8	90.8
1730	7.6	6.4	80.2	8.0	6.4	78.1	9.1	6.4	73.0	10.4	7.6	4.3		537.4	89.6
1800	6.5	6.2	83.0	6.9	6.2	81.0	8.1	6.2	75.0	10.1	7.5	4.6		504.7	85.6
1830	6.4	6.2	83.2	6.8	6.2	80.8	7.9	6.2	75.2	10.0	7.3	4.4		456.9	80.8
1900	6.7	6.3	82.6	7.1	6.2	80.4	8.0	6.2	75.6	9.9	7.5	5.1		423.5	76.3
1930	6.6	6.3	83.9	6.9	6.3	81.9	7.8	6.3	77.0	9.8	7.5	4.6		393.0	74.1
2000	6.9	6.5	84.0	7.2	6.4	82.0	8.0	6.5	78.4	10.0	7.2	4.6		350.2	68.8
2030	6.8	6.5	85.0	7.0	6.4	83.7	7.6	6.5	80.3	9.7	7.0	4.7		302.9	63.1
2100	7.0	6.6	84.8	7.2	6.5	82.9	7.7	6.5	80.0	9.5	7.1	4.7		259.1	56.3
2130	7.1	6.9	88.2	7.2	6.9	88.0	7.6	6.5	80.8	9.1	6.9	4.6		227.1	52.8
2200	6.5	7.0	93.8	6.7	7.1	94.1	7.1	6.4	82.5	8.4	6.9	4.3		194.1	45.6
2230	6.3	6.9	93.5	6.5	7.0	94.1	6.9	6.4	83.7	7.7	6.5	4.2		164.5	41.0
2300	6.3	6.5	88.5	6.4	6.7	90.3	6.7	6.6	87.2	6.9	6.2	4.2		134.4	34.7
2330	6.1	6.4	87.8	6.2	6.4	87.5	6.5	6.7	90.0	6.1	6.1	4.5		112.3	27.4
Max	11.1	8.5	93.8	11.1	8.6	94.1	11.0	8.5	90.5	10.5	7.6	5.1		645.9	95.3
Min	6.1	6.2	78.7	6.2	6.2	76.4	6.5	6.2	71.5	6.1	5.4	2.6		13.1	0.4
Ave	8.4	7.2	85.1	8.6	7.3	84.4	9.1	7.2	81.5	8.4	6.4	4.1		280.6	48.0
Sum														24.2	4.1

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
9.2	9.7		36.7		4.62	3.23	2.27	218.5		0.34	0.002	5.55	357.4	355.0 V
10.1	9.4		39.6	0.09	4.18	3.15	2.39	184.3	0.61	0.25	0.001	4.92	358.4	
15.0	9.6		45.2	0.18	4.99	3.82	3.09	184.2	0.24	0.26	-0.002	4.18	357.2	354.9 V
7.8	9.4		25.5	0.03	4.84	3.69	2.83	222.7	0.41	0.27	0.001	4.90	357.7	
11.0	6.7		41.5	0.08	3.75	2.75	1.84	248.5	0.79	0.23	-0.001	3.97	357.3	354.5 D
-5.4	6.6		54.3	0.09	4.25	2.98	2.03	223.8		0.32	0.005	4.98	357.3	
7.8	9.1		33.8		4.05	2.94	1.87	215.5		0.32	0.003	5.74	357.4	355.9 D
8.3	11.1		36.0		4.67	3.44	2.30	216.7	1.77	0.33	0.003	5.67	356.7	
14.5	13.4		49.8	0.10	7.89	5.99	3.91	244.5	0.65	0.48	0.001	7.61	356.3	354.5 D
15.8	12.0		48.1	0.16	7.65	6.01	3.95	250.3	0.49	0.45	0.001	7.67	355.0	
32.9	12.7		91.0	0.13	7.62	5.86	3.84	251.5	0.60	0.46	0.000	7.96	355.1	355.2 V
22.5	12.8		61.2	0.14	7.92	6.61	4.42	251.4	0.25	0.43	0.000	7.70	355.4	
30.4	11.9		101.0	0.11	8.64	6.78	4.43	250.7	0.49	0.51	0.000	8.27	356.0	355.2 D
42.2	14.2		213.0	0.14	9.56	7.63	5.06	248.4	0.39	0.54	0.000	9.07	355.1	
44.8	15.2		232.8	0.14	10.31	8.23	5.24	248.6	0.58	0.62	0.000	10.72	354.9	354.1 V
53.5	12.8		347.6	0.15	10.82	8.13	5.93	248.4	0.34	0.59	0.000	8.98	353.3	
126.0	19.3		587.1	0.18	11.23	8.83	5.87	248.3	0.46	0.66	-0.001	11.58	352.1	353.0 D
169.1	21.2		705.9	0.17	11.31	8.79	5.98	249.8	0.41	0.64	-0.002	10.52	353.2	
214.0	25.6		823.5	0.17	11.37	9.32	6.15	254.8	0.34	0.64	-0.003	10.94	351.9	352.3 D
198.7	27.5		738.7	0.17	11.05	9.33	6.35	256.2	0.18	0.57	-0.003	10.11	351.1	
166.6	20.6		638.6	0.15	11.17	8.92	6.20	256.5	0.26	0.60	-0.003	9.70	351.2	352.1 V
214.8	25.7		766.4	0.15	10.78	8.78	6.21	261.2	0.20	0.56	-0.003	10.18	350.1	
214.7	26.0		758.8	0.14	10.71	8.46	5.76	259.1	0.35	0.59	-0.004	9.22	350.1	351.2 D
195.7	24.1		708.3	0.15	9.65	7.75	5.36	263.8	0.26	0.52	-0.004	9.33	349.9	
252.3	28.9		872.6	0.14	10.28	8.24	5.34	263.0	0.46	0.60	-0.004	10.61	349.7	350.8
365.5	40.8		1207.5	0.15	10.11	7.92	5.44	269.7	0.37	0.57	-0.006	10.32	350.3	
437.9	52.3		1417.8	0.15	10.23	7.98	5.47	270.9	0.37	0.57	-0.008	10.06	350.9	350.6
462.8	53.4		1483.5	0.15	10.11	7.87	5.80	273.1	0.27	0.54	-0.012	9.89	350.4	
470.4	54.6		1508.9	0.14	9.57	7.57	5.22	280.8	0.32	0.52	-0.011	9.48	351.4	350.8
472.2	55.1		1517.6	0.15	8.89	7.26	4.69	283.5	0.45	0.52	-0.010	9.95	352.1	
467.7	56.4		1509.4	0.15	7.53	5.83	4.40	286.5	0.40	0.42	-0.031	10.01	353.9	351.3
467.8	52.8		1492.3	0.15	8.38	6.81	4.80	278.4	0.19	0.43	-0.018	8.39	352.5	
464.0	47.3		1459.1	0.15	9.67	7.70	5.52	275.2	0.24	0.51	-0.010	9.94	351.8	351.2 A
450.7	45.9		1416.7	0.15	9.66	7.79	5.40	273.9	0.25	0.51	-0.010	9.60	351.4	
427.9	41.3		1349.9	0.16	9.34	7.36	5.18	277.9	0.27	0.50	-0.011	9.35	351.5	350.8 D
403.5	38.0		1288.3	0.17	8.73	6.79	4.69	281.3	0.52	0.51	-0.011	10.11	352.1	
375.0	34.4		1217.4	0.17	7.80	5.97	4.23	289.5	0.86	0.48	-0.024	9.60	352.5	351.1 D
335.9	26.5		1110.9	0.18	7.66	5.69	4.51	284.4	0.50	0.44	-0.023	9.45	353.8	
305.6	24.4		1029.5	0.18	7.41	5.80	4.48	284.4	0.28	0.40	-0.022	8.91	353.8	351.3 A
278.0	23.3		962.3	0.19	7.00	5.46	4.29	282.8	0.34	0.39	-0.022	8.84	354.1	
238.4	20.5		863.9	0.20	6.87	5.31	3.88	285.7	0.57	0.41	-0.014	9.29	353.6	351.5 A
196.6	14.6		757.8	0.21	6.64	5.00	3.72	287.9	0.61	0.40	-0.014	8.60	353.2	
157.5	9.6		658.5	0.22	5.88	4.83	3.42	277.5	0.16	0.29	-0.015	5.57	352.2	351.8 A
127.1	5.6		575.5	0.23	5.65	4.52	3.24	279.9	0.20	0.29	-0.013	5.10	352.3	
94.8	2.5		483.5	0.24	5.15	3.98	2.83	274.7	0.35	0.29	-0.013	5.51	352.1	352.0 A
65.4	1.2		399.9	0.25	4.91	3.90	2.93	273.4	0.27	0.26	-0.018	5.79	352.3	
37.4	-0.3		316.2	0.26	4.85	3.98	2.79	270.4	0.17	0.25	-0.012	4.51	352.2	352.4 D
16.2	-1.6		254.0	0.24	5.00	3.88	2.61	273.1	0.90	0.32	-0.008	6.39	352.4	
472.2	56.4		1517.6	0.26	11.37	9.33	6.35	289.5	1.77	0.66	0.005	11.58	358.4	355.9
-5.4	-1.6		25.5	0.03	3.75	2.75	1.84	184.2	0.16	0.23	-0.031	3.97	349.7	350.6
191.5	22.8		673.7	0.16	7.92	6.23	4.34	259.1	0.43	0.45	-0.007	8.22	353.4	352.6
16.5	2.0													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	6.0	6.3	88.0	6.0	6.4	88.1	6.3	6.6	90.2	5.5	5.6	4.8		90.5	23.4
030	5.6	6.4	90.9	5.6	6.4	91.1	5.6	6.6	93.1	5.1	5.1	4.5		65.8	17.5
100	5.4	6.5	93.9	5.4	6.5	94.1	5.4	6.6	95.3	4.6	4.8	4.6		52.1	13.1
130	5.7	6.7	94.4	5.7	6.7	94.6	5.6	6.7	94.7	4.4	5.2	2.9		41.4	13.3
200	5.8	6.8	94.8	5.7	6.8	95.7	5.6	6.8	95.9	4.3	4.4	3.6		38.8	10.4
230	5.8	6.9	96.6	5.8	6.9	97.0	5.6	6.8	97.1	4.2	4.5	3.1		39.0	11.3
300	5.5	6.8	97.6	5.5	6.8	97.7	5.3	6.8	97.5	4.0	4.1	3.7		42.5	10.5
330	5.3	6.8	98.3	5.3	6.7	97.3	5.1	6.7	98.6	3.7	4.2	3.4		45.2	9.7
400	5.3	6.8	97.9	5.2	6.8	98.9	5.0	6.7	98.9	3.6	3.9	3.0		54.0	12.9
430	5.3	6.8	98.3	5.3	6.8	98.0	5.2	6.7	97.9	3.5	3.7	2.6		61.0	14.0
500	5.8	6.9	96.7	5.9	7.0	97.1	5.8	6.9	96.6	3.6	3.8	2.6		80.5	15.9
530	6.7	7.1	94.0	6.8	7.2	94.3	6.8	7.2	94.3	3.9	3.6	3.1		102.8	18.1
600	7.9	7.5	90.8	8.1	7.5	90.0	8.1	7.5	90.5	4.4	3.6	2.9		125.2	23.8
630	9.0	7.6	86.4	9.2	7.7	86.3	9.3	7.7	85.5	4.9	3.9	2.8		146.2	25.4
700	10.1	7.6	80.7	10.2	7.7	80.6	10.7	7.7	79.0	5.6	3.9	2.1		169.2	31.8
730	11.1	7.8	77.8	11.2	7.8	77.1	11.8	7.9	75.0	6.5	3.9	2.2		188.0	33.1
800	11.4	7.8	76.0	11.7	7.8	74.8	12.5	7.8	71.4	6.8	4.7	1.9		242.4	42.3
830	12.1	8.0	75.1	12.4	8.0	74.0	13.3	8.1	70.0	7.4	4.4	2.6		259.6	44.1
900	13.3	8.2	70.7	13.6	8.2	69.6	14.6	8.1	65.2	8.1	5.4	1.4		324.7	56.7
930	14.4	8.3	67.3	14.8	8.2	65.4	15.8	8.3	61.6	8.9	5.2	2.7		370.1	60.7
1000	15.0	8.3	65.0	15.3	8.2	63.1	16.4	8.3	59.2	9.4	6.2	2.1		413.3	66.5
1030	15.4	8.4	64.5	15.8	8.5	62.9	17.0	8.4	58.4	9.8	6.5	2.2		453.0	71.8
1100	16.0	8.7	63.5	16.5	8.6	61.6	17.7	8.6	57.1	10.5	7.0	3.0		486.1	75.3
1130	16.7	8.8	61.9	17.2	8.7	59.6	18.3	8.7	55.8	11.1	7.4	2.8		525.3	80.5
1200	17.6	8.9	59.6	18.1	8.8	57.3	19.1	8.9	54.2	11.9	8.2	2.5		553.8	84.4
1230	18.3	9.1	58.0	18.8	9.0	56.0	19.8	9.0	52.6	12.7	8.4	4.0		581.6	84.5
1300	19.0	9.3	57.4	19.4	9.2	55.1	20.4	9.2	51.9	13.5	8.9	3.4		576.5	84.8
1330	19.6	9.4	55.8	20.1	9.3	53.4	21.2	9.3	50.2	14.3	9.5	3.7		618.0	90.8
1400	20.1	9.4	54.0	20.7	9.2	51.3	21.9	9.3	48.2	15.4	9.8	3.7		627.3	92.7
1430	20.6	9.3	52.1	21.1	9.2	50.0	22.3	9.2	46.7	16.3	10.4	3.7		629.1	93.6
1500	21.2	9.2	50.0	21.6	9.1	47.9	22.9	9.1	44.5	17.3	10.5	4.5		611.5	89.4
1530	16.6	9.1	64.8	17.1	9.1	62.4	18.5	9.1	58.1	16.4	10.6	5.4		591.7	90.0
1600	16.2	9.2	66.7	16.8	9.1	63.8	18.1	9.2	60.0	16.5	10.6	5.6		600.0	91.7
1630	14.9	9.0	70.7	15.3	9.0	68.9	16.7	9.2	64.7	16.3	10.7	5.8		577.4	90.6
1700	14.9	9.1	71.2	15.3	9.0	69.5	16.5	9.2	65.7	16.4	10.7	6.0		550.1	88.6
1730	12.9	8.2	72.9	13.2	8.2	71.8	14.3	8.5	68.9	16.2	10.9	6.3		522.8	87.7
1800	13.5	8.0	68.7	13.8	8.1	68.4	14.6	8.4	66.8	16.6	11.0	6.3		487.1	82.6
1830	14.3	8.0	65.2	14.4	8.0	65.3	15.0	8.3	65.1	17.0	11.1	6.3		452.7	79.6
1900	14.1	7.9	64.9	14.2	8.0	65.6	14.6	8.1	65.0	16.6	11.1	6.5		414.5	76.4
1930	14.2	7.9	64.8	14.2	7.9	65.1	14.2	7.8	64.3	16.3	11.1	6.6		380.5	72.7
2000	14.4	8.2	66.2	14.4	8.1	65.9	14.2	8.0	65.5	15.4	11.0	6.7		234.8	45.4
2030	14.6	8.8	70.5	14.8	9.0	71.3	15.0	9.0	70.3	14.1	10.8	6.6		196.8	38.1
2100	15.0	8.9	69.3	15.3	9.1	69.9	16.3	9.6	69.7	15.6	10.7	6.4		256.0	56.2
2130	14.5	9.2	74.4	14.6	9.8	78.4	15.7	9.5	71.4	15.0	10.5	6.5		215.8	49.7
2200	13.5	9.2	79.0	13.8	10.0	84.4	14.7	9.4	74.6	13.4	10.4	6.6		145.1	31.9
2230	11.5	8.2	79.5	11.7	8.6	81.7	12.6	8.5	77.3	12.2	10.1	6.5		123.5	27.1
2300	9.8	7.4	80.4	10.0	7.9	84.6	10.8	8.9	90.0	11.2	9.7	6.4		136.6	33.8
2330	10.3	7.6	79.2	10.4	7.8	80.9	11.2	9.2	91.1	10.2	9.2	6.2		99.5	24.9
Max	21.2	9.4	98.3	21.6	10.0	98.9	22.9	9.6	98.9	17.3	11.1	6.7		629.1	93.6
Min	5.3	6.3	50.0	5.2	6.4	47.9	5.0	6.6	44.5	3.5	3.6	1.4		38.8	9.7
Ave	12.3	8.0	75.3	12.6	8.1	75.0	13.2	8.2	73.2	10.4	7.5	4.2		304.2	51.4
Sum														26.3	4.4

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-4.7	-2.7		199.8	0.26	4.11	3.36	2.23	270	0.33	0.23	-0.010	4.47	352.3	353.0 D
-22.8	-4.0		146.9	0.27	4.32	3.28	2.28	257	0.55	0.25	-0.002	4.33	352.4	
-28.8	-4.6		116.5	0.25	4.42	3.57	2.31	253	0.45	0.26	0.001	4.67	352.4	353.4 V
-31.5	-4.0		94.0	0.32	4.33	3.42	2.24	256	0.49	0.26	0.002	4.45	351.6	
-32.5	-3.1		82.9	0.27	4.53	3.43	2.30	247	0.58	0.27	0.003	4.65	352.3	352.5 V
-32.3	-2.0		79.7	0.29	4.36	3.34	2.17	250	0.65	0.27	0.004	4.51	352.8	
-30.0	-3.1		82.6	0.25	2.95	2.45	1.51	258	0.57	0.18	0.008	3.38	352.2	353.0 V
-29.3	-4.2		88.3	0.22	2.45	1.77	1.00	256		0.19	0.014	3.27	353.2	
-26.0	-3.7		111.5	0.24	2.50	1.72	0.90	255		0.21	0.013	3.82	353.0	352.8 D
-17.8	-2.2		133.1	0.23	2.14	1.38	0.72	247		0.19	0.008	3.53	353.5	
-4.2	-0.2		175.6	0.20	1.43	0.91	0.39	219		0.15	0.000	3.06	352.4	352.0 V
10.7	3.8		230.4	0.18	1.73	1.16	0.64	220		0.16	-0.006	3.05	351.6	
29.1	8.0		292.3	0.19	1.68	1.29	0.72	229		0.14	-0.022	3.25	350.8	349.8 V
47.9	13.2		352.4	0.17	2.00	1.52	0.99	219		0.15	-0.037	3.70	350.3	
70.8	16.5		424.0	0.19	1.45	1.22	0.80	204	0.52	0.09	-0.086	3.41	349.7	349.3 V
94.0	22.4		476.1	0.18	1.60	1.41	1.17	170	0.02	0.07	-0.270	4.45	348.6	
129.8	24.0		621.7	0.17	2.04	1.84	1.27	176	0.10	0.10	-0.146	4.62	349.2	350.1 V
144.0	30.2		669.7	0.17	1.85	1.73	1.42	176	0.01	0.07	-0.262	5.11	350.4	
193.8	37.6		826.1	0.17	2.41	2.02	1.55	154	0.06	0.11	-0.140	5.02	349.5	350.0
226.9	44.3		936.0	0.16	3.05	2.56	2.07	151	0.02	0.12	-0.174	5.21	348.8	
263.6	47.7		1031.2	0.16	3.95	3.31	2.54	145	0.10	0.19	-0.072	6.27	350.2	350.2
295.9	53.2		1116.8	0.16	4.54	3.60	2.79	160	0.25	0.24	-0.071	7.62	348.8	
323.4	59.2		1183.2	0.15	4.96	3.99	3.13	157	0.08	0.23	-0.077	6.26	349.1	349.9
355.7	63.3		1270.3	0.15	5.61	4.57	3.34	167	0.12	0.27	-0.042	6.21	349.5	
377.2	66.4		1335.1	0.15	6.14	4.88	3.57	174	0.33	0.34	-0.027	8.06	348.7	348.7 D
399.3	66.7		1388.7	0.15	6.69	5.46	4.17	173	0.18	0.34	-0.030	8.25	349.1	
395.5	65.8		1363.9	0.15	6.84	5.59	4.20	169	0.25	0.36	-0.026	8.62	349.8	348.5 D
420.9	70.9		1463.8	0.15	6.21	5.04	3.91	174	0.07	0.28	-0.038	6.46	349.5	
420.9	75.6		1484.9	0.15	5.28	4.43	3.37	181	0.07	0.24	-0.052	6.48	349.3	349.1 D
425.2	75.0		1491.3	0.15	5.09	4.44	3.36	169	0.03	0.22	-0.056	6.13	350.0	
412.4	75.8		1438.0	0.15	4.70	3.85	3.11	173	0.09	0.22	-0.077	7.78	349.8	348.8 A
399.7	71.5		1374.3	0.15	4.81	3.74	2.86	328	0.32	0.26	-0.089	7.98		
409.2	71.8		1430.3	0.15	4.57	3.45	2.93	337	0.18	0.23	-0.119	7.92		348.8 A
394.8	69.0		1385.0	0.16	4.29	2.93	2.59	342	0.63	0.26	-0.097	7.84		
375.8	65.8		1327.8	0.16	4.05	3.08	2.62	289	0.19	0.21	-0.093	7.52		349.1 A
352.5	59.4		1264.7	0.17	3.31	2.51	2.10	316	0.21	0.17	-0.130	7.01		
321.6	55.0		1189.7	0.17	2.79	2.04	1.76	282	0.32	0.15	-0.123	6.15		349.3
289.3	48.5		1108.8	0.18	2.50	1.99	1.61	251	0.07	0.12	-0.092	3.92		
259.1	42.4		1021.8	0.18	2.50	2.21	1.63	79	0.05	0.12	-0.040	3.19		349.4
233.6	39.3		941.3	0.19	2.46	2.04	1.53	31	0.09	0.12	0.001	2.21		
120.2	26.6		629.6	0.19	2.33	1.89	1.31	24	0.27	0.13	0.028	2.05		349.0 A
99.0	16.5		526.4	0.19	2.39	1.90	1.29	45	0.33	0.13	-0.039	3.01		
139.8	20.9		656.4	0.22	2.35	2.00	1.47	68	0.06	0.11	-0.203	5.12		349.0 A
105.2	15.3		548.0	0.23	2.17	1.73	1.17	70	0.44	0.13	-0.111	4.80		
53.1	9.5		378.3	0.22	1.91	1.48	1.00	64	0.46	0.11	-0.157	4.92		349.7
43.9	7.3		307.5	0.22	2.53	1.95	1.29	80	1.28	0.17	-0.072	6.05		
50.9	4.7		312.6	0.25	2.48	1.85	1.24	88	1.29	0.17	-0.079	5.88		349.7
18.5	2.5		228.2	0.25	2.13	1.48	0.94	94		0.16	-0.098	5.72		
425.2	75.8		1491.3	0.32	6.84	5.59	4.20	342	1.29	0.36	0.028	8.62	353.5	353.4
-32.5	-4.6		79.7	0.15	1.43	0.91	0.39	24	0.01	0.07	-0.270	2.05	348.6	348.5
175.9	31.5		736.2	0.19	3.44	2.73	1.99	190	0.30	0.19	-0.066	5.24	350.7	350.2
15.2	2.7													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	10.3	7.7	80.6	10.3	7.7	81.0	10.3	8.0	83.6	9.3	8.8	6.0		77.9	22.1
030	9.8	7.8	84.2	9.8	7.8	84.1	9.7	7.9	86.4	8.7	8.8	5.4		60.9	17.9
100	8.7	7.4	86.5	8.7	7.4	86.5	8.5	7.5	87.7	7.9	8.3	5.5		48.5	14.8
130	8.9	7.7	88.0	8.8	7.7	88.4	8.5	7.6	89.4	7.4	7.9	5.3		38.4	10.4
200	8.2	7.5	89.4	8.1	7.5	90.5	7.9	7.4	90.8	7.0	7.5	5.2		35.5	9.9
230	7.6	7.3	90.4	7.5	7.3	91.1	7.3	7.2	91.8	6.6	6.9	5.4		34.4	8.4
300	7.3	7.2	91.6	7.3	7.2	92.0	7.1	7.2	92.7	6.3	6.7	5.2		35.4	8.5
330	8.5	7.8	91.6	8.5	7.9	92.5	8.2	7.8	93.3	6.1	6.8	4.5		36.2	8.3
400	10.3	8.6	90.0	10.3	8.7	90.7	10.0	8.6	91.4	6.4	6.7	4.6		43.7	10.0
430	12.0	9.3	87.4	12.0	9.3	87.9	11.8	9.2	88.2	6.8	6.1	5.1		53.9	10.2
500	13.1	9.7	84.9	13.1	9.7	85.2	12.9	9.6	85.3	7.3	6.5	4.6		62.1	12.1
530	13.7	9.9	84.4	13.6	10.0	85.1	13.6	9.9	84.3	7.5	7.0	3.7		83.4	19.6
600	14.9	10.2	80.5	14.9	10.3	81.2	15.0	10.2	79.5	8.3	6.7	4.3		133.1	28.0
630	15.1	10.3	80.4	15.1	10.4	81.0	15.2	10.3	79.7	8.8	7.2	4.0		100.2	17.8
700	15.8	10.7	79.7	15.8	10.7	80.1	15.9	10.7	79.2	9.3	7.2	3.9		86.0	12.3
730	15.5	10.7	81.4	15.5	10.9	82.5	15.6	10.8	81.7	9.6	7.4	3.7		112.0	16.8
800	15.0	11.0	85.9	15.0	11.2	87.5	14.9	11.2	87.6	9.8	7.5	4.1		52.9	8.1
830	15.0	11.5	89.9	14.9	11.7	92.1	14.7	11.7	93.2	9.9	7.6	4.1		48.1	4.9
900	15.8	11.8	87.9	15.9	12.1	89.6	15.9	12.2	90.1	10.7	7.7	4.0		169.2	23.7
930	17.7	11.9	79.0	17.7	12.1	79.9	17.8	12.2	80.6	11.5	8.0	4.1		217.1	32.3
1000	19.1	12.0	73.3	19.3	12.1	73.4	19.7	12.3	72.2	11.6	8.5	4.1		355.3	55.0
1030	20.5	11.4	64.4	20.7	11.4	63.5	21.4	11.5	61.6	12.2	9.0	4.0		447.6	73.6
1100	19.2	11.0	67.0	19.5	11.0	66.0	20.2	11.1	63.8	12.7	9.4	4.2		479.6	78.6
1130	19.0	10.7	65.9	19.2	10.7	64.8	20.0	10.8	62.6	13.6	9.9	4.3		514.6	81.9
1200	17.4	9.8	66.2	17.7	9.8	65.1	18.8	10.0	62.2	14.4	10.5	4.0		540.2	85.3
1230	21.7	10.9	57.1	22.1	10.8	55.4	22.9	11.0	53.5	15.7	11.0	4.4		561.4	81.9
1300	23.5	10.6	50.0	23.9	10.2	47.4	24.7	10.2	45.1	15.9	11.5	4.5		583.2	87.8
1330	24.9	10.5	45.8	25.1	10.1	43.5	25.8	9.8	40.6	15.8	11.7	4.5		595.0	90.1
1400	25.4	10.5	44.8	25.6	10.1	42.3	26.3	9.7	39.4	16.3	12.0	5.3		615.6	92.0
1430	25.8	10.3	42.7	26.1	10.0	40.7	27.0	9.8	38.1	16.8	12.2	5.4		614.8	91.7
1500	24.2	10.9	49.5	24.6	10.9	48.7	25.7	11.1	46.2	17.7	12.2	5.7		605.9	91.4
1530	23.7	11.0	51.3	24.1	11.0	50.5	25.2	11.2	48.0	18.0	12.3	5.9		599.3	89.8
1600	24.0	11.0	50.7	24.3	11.0	49.9	25.5	11.2	47.4	18.5	12.5	6.1		583.7	88.9
1630	24.2	10.9	49.6	24.6	10.9	48.4	25.8	11.0	45.5	19.1	12.8	6.3		617.2	97.0
1700	24.3	10.6	47.9	24.6	10.6	47.4	25.6	10.7	45.2	18.8	12.9	6.5		534.0	85.6
1730	22.2	10.7	54.8	22.2	10.7	54.6	22.3	10.7	54.6	16.6	12.6	6.9		163.5	25.4
1800	19.7	10.0	59.0	19.7	10.0	58.9	19.9	10.4	60.7	15.9	12.1	7.8		198.3	26.9
1830	20.6	11.1	61.9	20.7	11.2	62.1	21.0	11.6	63.4	17.4	12.5	6.8		224.3	33.3
1900	22.1	10.5	54.0	22.3	10.4	53.0	22.9	10.8	52.8	18.8	12.5	6.6		315.6	50.9
1930	22.1	10.7	55.1	22.2	10.5	53.8	22.3	10.7	54.4	17.3	12.3	6.7		186.5	28.5
2000	19.8	11.2	66.0	19.8	11.2	65.7	20.0	11.2	65.1	16.5	12.6	6.6		201.9	32.7
2030	19.8	11.4	66.9	19.9	11.3	66.0	20.1	11.3	65.1	16.8	12.4	6.7		187.5	28.8
2100	19.6	11.3	66.9	19.6	11.2	66.2	19.7	11.2	66.1	16.2	12.3	7.1		138.1	19.5
2130	18.7	11.2	70.3	18.7	11.2	70.1	18.6	11.2	70.4	15.0	11.8	7.2		99.4	14.9
2200	18.2	10.2	65.3	18.3	10.0	64.4	18.5	9.7	61.7	15.4	11.7	7.0		171.0	37.2
2230	14.2	8.7	70.7	14.3	8.6	69.9	14.3	8.5	68.8	13.9	11.4	7.0		103.2	22.3
2300	10.6	7.2	73.9	10.6	7.1	72.9	10.6	7.1	73.2	11.6	11.1	7.1		60.8	11.7
2330	8.9	6.4	72.5	9.0	6.3	71.1	9.1	6.3	71.5	10.6	10.2	7.7		51.0	8.4
Max	25.8	12.0	91.6	26.1	12.1	92.5	27.0	12.3	93.3	19.1	12.9	7.8		617.2	97.0
Min	7.3	6.4	42.7	7.3	6.3	40.7	7.1	6.3	38.1	6.1	6.1	3.7		34.4	4.9
Ave	17.0	10.0	70.4	17.1	10.0	70.1	17.4	10.0	69.5	12.6	9.8	5.4		247.4	39.7
Sum														21.4	3.4

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
-2.0	1.3		174.1	0.28	2.26	1.74	1.34	95	0.21	0.12	-0.007	2.08		349.6	
-13.8	0.5		136.9	0.29	2.56	1.96	1.44	97	0.54	0.15	0.015	2.45	344.3		
-16.4	-1.5		109.3	0.31	2.58	1.90	1.40	104	0.81	0.16	0.015	2.82	343.5	349.6	
-16.6	-2.3		89.0	0.27	2.10	1.35	0.91	111		0.16	0.037	2.71	343.8		
-16.8	-2.2		77.8	0.28	2.61	1.90	1.29	106	1.52	0.18	0.044	2.47	344.9	350.0	D
-14.5	-2.4		72.7	0.24	3.03	2.21	1.52	106	1.46	0.20	0.022	3.20	345.4		
-11.0	-2.3		73.6	0.24	2.56	1.76	1.26	106	1.78	0.18	0.029	2.67	345.6	350.4	D
-14.4	-0.5		78.3	0.23	2.74	1.78	1.35	121		0.20	0.052	2.46	346.5		
-18.0	4.8		94.7	0.23	3.38	2.36	1.72	132	1.52	0.23	0.023	3.47	345.4	351.2	D
-16.0	10.1		115.8	0.19	3.83	2.86	2.19	142	0.56	0.22	0.018	3.51	345.0		
-8.6	15.0		141.1	0.20	4.55	3.47	2.66	146	0.40	0.25	0.009	4.05	343.4	352.5	D
1.8	16.7		190.6	0.24	5.01	3.63	2.89	146	0.55	0.29	0.002	4.72	345.5		
63.6	23.9		283.1	0.21	5.64	4.49	3.46	151	0.09	0.26	-0.005	4.11	344.3	352.9	A
45.6	26.1		230.5	0.18	5.36	4.10	3.12	155	0.44	0.31	-0.002	6.01	345.3		
59.8	29.9		203.2	0.14	5.19	4.01	3.07	166	0.34	0.28	-0.003	5.39	344.4	352.9	A
81.5	31.7		271.0	0.15	5.06	4.01	3.16	182	0.15	0.25	-0.003	4.27	344.4		
37.1	28.7		129.3	0.15	4.55	3.51	2.56	177	0.47	0.26	0.004	4.35	345.6		C
39.6	24.4		120.8	0.10	2.67	2.01	1.47	146	0.65	0.16	0.032	2.66	348.6		
133.6	34.9		407.7	0.14	4.40	3.44	2.58	135	0.28	0.23	-0.004	3.67	346.7		C
142.2	41.7		551.5	0.15	4.58	3.69	2.53	134	0.26	0.25	-0.002	4.13	344.5		
248.5	47.7		892.7	0.15	5.13	4.07	3.18	139	0.19	0.26	-0.023	5.67	341.2		C
319.1	57.9		1098.3	0.16	6.39	5.02	3.81	150	0.33	0.35	-0.019	7.45	339.6		
337.2	62.1		1160.1	0.16	5.78	4.49	3.40	126	0.36	0.32	-0.027	7.00	341.0		C
364.0	66.8		1242.1	0.16	5.51	4.24	3.19	123	0.44	0.31	-0.024	7.49	342.3		
377.5	72.0		1299.6	0.16	4.46	3.37	2.73	104	0.32	0.24	-0.069	7.13	342.4		C
396.6	76.9		1357.8	0.15	5.36	4.24	3.20	126	0.33	0.29	-0.037	7.28	340.2		
413.3	70.4		1395.6	0.15	7.25	5.58	4.74	136	0.12	0.35	-0.030	7.43	341.0		C
424.2	63.0		1416.4	0.15	8.96	6.88	5.45	157	0.28	0.48	-0.009	9.69	343.7		
440.1	65.0		1465.6	0.15	8.70	6.80	5.38	155	0.22	0.45	-0.010	9.57	343.4		C
437.2	66.5		1463.1	0.15	8.18	6.61	5.07	150	0.08	0.38	-0.014	7.23			
427.1	71.5		1442.6	0.15	7.29	5.57	4.16	120	0.54	0.43	-0.019	9.77		346.4	A
425.3	70.5		1430.1	0.15	7.35	5.61	4.17	113	0.53	0.43	-0.019	9.69			
413.9	68.6		1402.4	0.15	7.28	5.17	3.81	122	1.21	0.48	-0.016	10.31		346.4	A
454.8	69.5		1477.3	0.16	7.20	5.45	4.05	129	0.60	0.43	-0.023	9.49			
377.7	60.2		1281.1	0.16	7.92	5.99	4.55	138	0.44	0.45	-0.013	9.72		347.1	D
91.3	29.8		409.1	0.16	6.06	4.53	3.18	172	1.09	0.40	-0.001	8.15			
137.4	30.4		510.3	0.14	2.26	1.59	1.20	214	1.23	0.15	-0.041	3.14		349.3	V
161.5	42.1		572.5	0.15	2.23	1.85	1.42	143	0.05	0.10	-0.052	2.62	343.8		
220.9	50.9		782.8	0.16	2.82	2.27	1.74	153	0.09	0.13	-0.121	3.86	342.1	350.0	V
104.7	35.2		482.9	0.15	2.50	1.93	1.45	129	0.41	0.14	-0.020	3.17	343.2		
127.9	33.6		497.9	0.16	3.81	2.91	2.25	100	0.40	0.21	-0.012	4.54	342.6	348.5	D
121.3	36.5		463.8	0.15	2.40	1.82	1.39	121	0.49	0.14	-0.047	3.95	341.3		
76.6	32.5		339.1	0.14	1.44	1.18	0.90	97	0.08	0.07	-0.058	1.75	339.6	348.7	D
45.9	22.6		251.2	0.15	1.09	0.77	0.59	78	1.24	0.07	0.020	1.21	338.8		
82.5	22.5		406.7	0.22	2.70	2.15	1.72	93	0.18	0.14	-0.032	3.62	337.9	349.1	D
27.4	12.2		249.1	0.22	2.80	2.11	1.60	92	0.59	0.17	-0.006	3.30	338.0		
18.6	1.7		149.0	0.19	3.81	2.78	2.02	90	0.97	0.24	-0.002	4.25	340.1	349.6	
35.0	1.1		114.2	0.17	4.12	3.14	2.24	91	0.80	0.26	-0.006	4.97	340.0		
454.8	76.9		1477.3	0.31	8.96	6.88	5.45	214	1.78	0.48	0.052	10.31	348.6	352.9	
-18.0	-2.4		72.7	0.10	1.09	0.77	0.59	78	0.05	0.07	-0.121	1.21	337.9	346.4	
157.6	33.7		595.9	0.18	4.49	3.42	2.59	130	0.56	0.25	-0.009	5.10	343.1	349.7	
13.6	2.9														

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	7.0	6.0	77.6	7.1	6.0	76.6	7.2	6.0	77.0	9.6	10.0	7.0		23.8	4.4
030	6.3	6.0	80.5	6.5	6.0	79.7	6.6	6.0	79.8	9.0	9.4	6.6		38.5	5.2
100	6.2	5.9	80.6	6.3	5.9	79.3	6.5	5.9	79.7	8.7	8.6	6.8		29.5	3.2
130	6.3	5.9	80.7	6.4	5.9	79.5	6.5	6.0	80.1	8.3	8.8	6.2		17.7	1.7
200	6.2	6.2	84.2	6.2	6.2	84.1	6.3	6.3	85.4	7.9	8.1	6.2		10.9	0.4
230	5.5	6.3	89.6	5.6	6.3	89.3	5.6	6.4	90.7	7.3	8.1	6.0		8.7	0.6
300	5.3	6.1	88.9	5.3	6.2	89.1	5.2	6.2	90.9	6.9	8.0	5.5		15.6	2.6
330	6.6	6.6	87.5	6.6	6.6	87.4	6.5	6.7	89.6	6.9	7.3	5.5		19.8	1.0
400	7.4	6.8	86.0	7.4	6.9	86.7	7.3	6.9	87.7	7.0	7.2	5.6		20.3	0.8
430	7.9	7.2	87.9	7.9	7.2	88.3	7.8	7.2	88.3	6.8	7.0	5.2		26.8	2.1
500	9.7	7.7	83.5	9.8	7.8	83.7	9.8	7.9	84.7	7.4	6.8	5.1		32.6	3.1
530	12.8	8.8	79.1	12.5	8.9	81.4	11.8	8.7	83.0	7.8	7.1	4.7		29.3	1.4
600	11.5	8.6	83.5	11.3	8.6	84.6	10.9	8.6	86.0	7.4	6.8	4.7		75.1	13.0
630	12.0	8.5	80.1	12.0	8.6	80.8	12.0	8.5	80.1	8.0	6.9	4.7		134.3	27.9
700	10.3	8.0	83.9	10.4	8.0	83.0	10.5	8.0	82.5	7.8	6.9	4.5		145.9	30.6
730	9.5	7.5	82.7	9.8	7.5	81.3	10.0	7.5	80.1	7.9	6.6	4.8		185.9	35.4
800	9.0	7.3	83.1	9.2	7.3	82.3	9.4	7.3	81.5	7.9	6.7	4.3		144.0	25.6
830	8.7	7.0	81.4	9.0	7.0	80.1	9.2	7.0	78.5	7.5	6.6	4.3		173.4	29.4
900	9.9	7.2	77.2	10.2	7.1	75.1	10.6	7.2	73.8	8.0	7.0	3.7		242.8	43.5
930	11.3	7.4	72.8	11.6	7.4	71.2	12.1	7.5	69.7	9.6	7.2	4.0		252.8	42.1
1000	10.8	7.5	76.2	11.0	7.5	74.8	11.3	7.5	74.4	9.6	6.8	4.5		130.2	18.2
1030	11.3	7.8	76.4	11.5	7.8	75.3	11.8	7.8	74.4	10.0	7.1	3.9		156.6	23.0
1100	15.2	9.4	72.8	15.4	9.5	72.0	15.9	9.5	70.2	11.4	7.3	4.6		232.2	29.6
1130	17.9	11.0	72.2	18.1	11.1	71.9	18.5	11.0	69.8	11.8	7.8	4.0		212.2	27.7
1200	19.3	11.6	70.4	19.5	11.7	70.2	19.8	11.7	68.4	12.3	8.2	3.7		254.1	35.2
1230	20.5	11.1	62.5	20.8	11.1	61.7	21.4	11.2	59.6	13.7	8.5	4.1		408.5	59.1
1300	17.2	10.5	71.5	17.5	10.6	70.8	18.5	10.5	66.5	14.6	8.9	4.8		553.6	86.3
1330	13.3	9.2	79.9	13.8	9.2	77.8	14.9	9.3	72.9	13.5	9.2	5.3		609.3	94.2
1400	12.4	8.7	80.0	12.9	8.8	78.1	14.0	8.8	72.7	13.3	9.7	5.0		611.8	91.7
1430	11.7	8.5	81.1	12.1	8.5	79.4	13.2	8.5	74.2	13.0	9.5	4.8		583.2	88.9
1500	11.1	8.4	84.2	11.5	8.5	82.6	12.6	8.5	77.2	12.7	9.4	6.0		535.3	78.0
1530	11.2	8.6	85.3	11.7	8.7	83.0	13.0	8.6	76.4	13.5	9.2	5.5		636.6	98.6
1600	10.1	8.3	88.8	10.5	8.4	87.1	11.7	8.4	80.5	13.0	9.3	5.3		521.2	80.6
1630	9.5	8.3	91.4	10.0	8.2	88.0	11.3	8.3	81.1	13.0	9.8	5.4		540.0	85.4
1700	10.3	8.3	86.7	10.7	8.3	84.8	12.0	8.3	78.5	13.1	9.2	5.8		531.0	85.5
1730	10.4	7.8	81.5	10.8	7.9	79.8	12.1	7.9	73.7	13.1	9.5	5.2		509.8	86.2
1800	9.9	7.7	82.9	10.3	7.7	80.8	11.5	7.8	75.6	12.6	9.1	6.0		451.9	80.0
1830	9.3	7.7	85.7	9.7	7.8	84.3	10.7	7.8	79.2	12.4	9.4	6.0		395.4	70.8
1900	9.3	7.7	85.9	9.6	7.8	85.3	10.5	7.8	81.3	12.2	9.5	5.6		342.6	60.4
1930	8.8	7.7	88.6	9.1	7.7	86.8	9.8	7.7	83.8	11.4	9.3	5.4		245.5	42.4
2000	8.4	7.4	88.4	8.6	7.5	87.5	9.2	7.6	84.7	10.9	9.1	6.0		256.8	45.9
2030	8.3	7.5	88.8	8.6	7.4	87.0	9.1	7.5	85.0	11.5	8.7	6.2		289.3	58.8
2100	8.5	7.4	87.6	8.6	7.4	87.1	9.0	7.5	85.8	11.0	8.6	5.7		238.0	51.5
2130	8.7	7.6	87.4	8.7	7.6	88.1	9.0	7.4	84.5	10.5	8.5	5.3		199.5	44.6
2200	8.6	7.6	88.6	8.7	7.7	89.5	8.8	7.4	85.6	9.7	8.0	6.1		144.1	31.0
2230	8.3	7.6	90.5	8.4	7.7	91.1	8.5	7.5	88.3	8.8	7.8	6.0		113.4	23.9
2300	8.0	7.4	90.3	8.0	7.6	91.5	8.0	7.5	90.8	8.1	7.7	5.4		89.2	19.7
2330	7.7	7.5	92.6	7.7	7.5	93.2	7.7	7.6	93.9	7.5	7.2	5.8		77.8	17.7
Max	20.5	11.6	92.6	20.8	11.7	93.2	21.4	11.7	93.9	14.6	10.0	7.0		636.6	98.6
Min	5.3	5.9	62.5	5.3	5.9	61.7	5.2	5.9	59.6	6.8	6.6	3.7		8.7	0.4
Ave	10.1	7.9	82.7	10.3	7.9	81.9	10.7	7.9	80.0	10.1	8.2	5.3		239.5	39.3
Sum														20.7	3.4

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
27.4	-3.1		51.7	0.19	3.74	3.07	2.32	99	0.08	0.17	-0.016	2.86	339.2	349.4
35.1	-2.6		82.2	0.14	3.39	2.55	1.93	99	0.51	0.20	-0.021	3.90	339.7	
35.0	-1.2		59.6	0.11	3.11	2.47	1.82	99	0.15	0.15	-0.021	2.98	340.8	349.5
24.8	-0.4		36.9	0.10	1.65	1.36	0.92	106	0.27	0.09	-0.049	2.19	342.0	
20.8	-0.1		19.7		2.32	1.91	1.47	84	0.05	0.10	-0.024	1.92	341.8	349.4
23.7	-1.2		27.4		3.27	2.74	1.95	70	0.12	0.16	-0.008	2.96	342.2	
17.8	-3.3		37.3	0.17	4.04	3.10	2.30	108	0.47	0.23	0.003	3.28	341.2	349.4
23.4	-0.5		45.6		3.47	2.75	1.98	114	0.20	0.18	0.003	2.63	340.6	
18.8	2.8		48.2		3.47	2.78	2.13	116	0.09	0.16	0.008	2.35	341.3	350.0 V
7.1	1.8		67.5		1.89	1.25	0.78	118		0.15	0.015	2.51	343.4	
33.8	8.6		72.1	0.10	2.12	1.57	1.20	147	0.69	0.13	-0.009	1.72	343.9	350.9 V
3.8	10.7		81.9		1.24	0.73	0.44	80		0.11	0.315	1.58	344.2	
25.7	8.4		185.2	0.17	2.55	1.56	1.06	101		0.21	0.051	3.13	345.0	350.2 D
47.7	13.9		309.5	0.21	3.51	2.66	2.17	110	0.25	0.18	-0.002	2.94	343.1	
63.9	12.1		355.1	0.21	4.39	3.45	2.59	119	0.32	0.24	-0.009	4.62	343.4	350.5 D
108.7	14.0		447.8	0.19	4.55	3.46	2.66	121	0.38	0.25	-0.019	5.56	343.2	
83.3	13.9		360.7	0.18	3.97	3.22	2.47	123	0.08	0.18	-0.024	3.34	342.7	350.0
104.7	13.6		438.7	0.17	4.71	3.82	2.73	127	0.17	0.24	-0.017	4.54	343.3	
163.4	21.3		615.4	0.18	3.88	3.05	2.35	122	0.13	0.19	-0.038	4.44	342.0	349.8
196.0	34.6		608.4	0.17	4.50	3.41	2.71	116	0.31	0.24	-0.043	5.95	342.5	
107.0	24.3		322.4	0.14	3.96	3.09	2.31	122	0.18	0.20	-0.026	3.62	342.6	349.4 V
126.7	26.6		387.6	0.15	3.27	2.56	1.93	124	0.15	0.16	-0.039	3.66	341.7	
178.8	40.5		572.9	0.13	3.95	3.31	2.47	144	0.07	0.18	-0.052	4.04	340.7	348.2 V
147.8	44.9		528.0	0.13	4.08	3.24	2.58	161	0.08	0.19	-0.034	4.22	340.7	
181.7	51.4		626.1	0.14	4.65	3.73	2.79	190	0.11	0.22	-0.019	4.32	346.0	355.3 V
299.8	66.7		992.4	0.14	5.80	4.70	3.32	238	0.22	0.30	-0.015	6.00	343.6	
395.4	76.3		1298.0	0.16	7.57	5.77	4.03	271	0.44	0.44	-0.010	8.56	349.3	356.7 V
446.0	64.2		1436.0	0.15	8.26	6.49	4.72	265	0.42	0.47	-0.020	9.64	347.2	
447.1	62.9		1432.2	0.15	8.49	6.57	4.82	275	0.52	0.49	-0.017	10.52	353.1	353.6 V
432.6	56.2		1377.2	0.15	9.15	7.12	4.96	276	0.50	0.53	-0.011	10.17	352.7	
418.6	47.2		1275.2	0.15	8.24	6.55	5.01	277	0.26	0.44	-0.017	10.01	352.0	353.6 V
488.9	61.4		1490.9	0.15	8.21	6.50	4.56	286	0.69	0.51	-0.016	11.44	352.7	
390.7	51.6		1228.4	0.15	7.35	5.60	4.09	286	0.75	0.45	-0.022	9.95	353.3	353.0 A
409.8	53.8		1288.5	0.16	6.15	4.97	3.60	292	0.18	0.32	-0.030	7.34	351.1	
386.9	53.2		1257.5	0.16	6.05	4.91	3.69	298	0.12	0.30	-0.030	6.96	351.1	353.0 A
367.0	47.6		1206.5	0.17	6.49	4.88	3.64	298	0.60	0.39	-0.030	9.19	352.2	
314.7	38.5		1049.0	0.18	5.95	4.77	3.65	309	0.20	0.31	-0.042	8.09	351.7	353.6 A
263.4	31.8		899.0	0.18	5.10	4.07	3.40	318	0.07	0.23	-0.078	7.02	352.6	
223.5	28.8		798.6	0.18	4.85	3.83	3.04	322	0.27	0.26	-0.132	6.34	352.2	353.6 A
175.6	22.4		564.9	0.17	4.83	3.99	3.11	324	0.16	0.24	-0.089	5.75	351.8	
182.2	19.0		598.9	0.18	4.81	3.68	3.07	329	0.21	0.24	-0.089	5.61	352.1	353.2 A
174.6	16.6		685.2	0.20	5.24	3.73	3.35	336	0.33	0.28	-0.052	5.78	351.8	
130.3	11.1		556.3	0.22	5.07	3.73	3.06	338	0.38	0.28	-0.016	6.08	351.3	353.0 A
98.3	7.3		468.8	0.22	4.22	3.40	2.63	231	0.08	0.19	-0.014	3.75	351.5	
51.4	4.8		324.0	0.22	4.08	3.12	2.22	26	0.84	0.25	-0.009	4.66	352.3	352.8 A
27.7	3.1		242.8	0.21	3.32	2.44	1.86	33	0.71	0.20	-0.011	4.03	352.7	
6.6	0.3		187.3	0.22	2.56	2.04	1.34	50	0.67	0.16	-0.005	2.91	352.4	352.8 A
-6.1	-1.1		154.8	0.23	2.80	2.23	1.53	53	0.55	0.17	-0.002	3.10	352.6	
488.9	76.3		1490.9	0.23	9.15	7.12	5.01	338	0.84	0.53	0.315	11.44	353.3	356.7
-6.1	-3.3		19.7	0.10	1.24	0.73	0.44	26	0.05	0.09	-0.132	1.58	339.2	348.2
165.2	24.1		566.7	0.17	4.59	3.58	2.68	180	0.31	0.25	-0.017	5.17	346.7	351.7
14.3	2.1													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	6.9	7.4	96.5	6.9	7.4	96.6	6.8	7.5	97.8	6.7	7.2	4.7		56.3	13.9
030	6.3	7.3	98.9	6.3	7.3	99.6	6.2	7.3	99.7	6.4	6.6	4.8		41.1	9.0
100	5.7	7.1	100.0	5.7	7.1	100.0	5.5	7.0	100.0	5.8	6.6	4.6		33.0	5.3
130	5.1	6.7	99.1	4.8	6.8	100.0	4.3	6.5	100.0	5.0	6.2	4.5		29.7	3.8
200	4.9	6.8	100.0	4.8	6.7	99.9	4.3	6.5	100.0	4.7	5.8	4.3		23.8	3.4
230	5.1	6.9	100.0	5.2	6.9	100.0	5.0	6.9	100.0	5.0	5.6	4.0		21.0	2.5
300	4.8	6.8	100.0	4.8	6.7	100.0	4.6	6.7	100.0	4.6	5.1	4.2		20.1	2.8
330	5.7	7.2	100.0	5.8	7.2	100.0	5.8	7.2	100.0	5.0	5.2	3.7		28.2	4.0
400	6.5	7.5	100.0	6.5	7.6	100.0	6.5	7.5	100.0	5.4	5.3	3.9		23.9	1.9
430	7.0	7.7	100.0	7.0	7.7	100.0	6.9	7.7	100.0	5.3	5.4	3.6		26.9	2.5
500	6.6	7.6	100.0	6.7	7.6	100.0	6.7	7.6	100.0	5.7	4.9	4.4		29.8	2.6
530	6.2	7.3	100.0	6.2	7.4	100.0	6.3	7.5	100.0	5.7	5.3	3.4		38.7	4.6
600	6.3	7.4	100.0	6.4	7.5	100.0	6.5	7.4	99.9	5.8	5.5	3.3		50.3	6.2
630	6.2	7.3	100.0	6.3	7.4	99.8	6.5	7.4	98.8	6.2	4.9	4.2		63.2	7.9
700	6.1	7.2	98.6	6.2	7.2	98.9	6.5	7.3	97.5	6.5	5.2	3.3		103.0	16.7
730	6.1	7.1	98.1	6.3	7.3	98.6	6.6	7.2	96.4	6.9	5.1	3.3		118.3	19.9
800	6.1	7.1	97.5	6.2	7.2	98.0	6.5	7.2	96.2	6.9	5.1	3.6		124.7	18.5
830	7.2	7.3	93.5	7.7	7.3	90.5	8.2	7.5	90.3	7.7	5.9	3.0		273.7	46.9
900	8.1	7.6	91.4	8.3	7.7	90.8	9.0	7.8	89.0	8.8	5.8	3.2		148.6	23.1
930	7.8	7.6	93.1	8.0	7.7	93.2	8.4	7.7	91.4	8.3	5.8	3.3		104.9	15.3
1000	7.7	7.5	93.3	7.8	7.6	93.6	8.2	7.6	91.8	7.9	5.8	3.3		98.7	13.7
1030	8.1	7.6	91.7	8.3	7.7	92.1	8.7	7.8	90.1	8.2	5.9	3.3		128.9	18.2
1100	8.5	7.7	90.4	8.6	7.8	90.9	9.0	7.8	88.9	8.4	6.0	3.3		143.2	20.5
1130	8.1	7.5	90.5	8.2	7.6	90.8	8.6	7.6	89.3	7.9	6.0	3.4		109.5	15.4
1200	7.4	7.5	95.2	7.5	7.7	96.2	7.7	7.7	95.7	7.6	6.0	3.5		87.2	11.3
1230	7.1	7.6	98.2	7.2	7.8	99.4	7.5	7.9	99.1	8.0	6.0	3.5		135.2	16.4
1300	6.8	7.5	98.9	6.9	7.6	99.5	7.0	7.7	99.4	7.4	5.9	3.5		79.6	9.5
1330	7.8	8.1	99.2	8.0	8.2	99.8	8.5	8.4	98.1	8.3	6.0	3.4		249.2	31.8
1400	8.5	8.1	95.5	8.8	8.3	95.9	9.5	8.5	93.6	9.7	6.4	3.3		342.7	47.0
1430	9.0	7.9	90.3	9.3	8.1	90.3	10.2	8.3	87.5	10.5	6.8	3.3		397.8	56.2
1500	10.1	7.9	84.1	10.5	8.1	84.2	11.7	8.3	79.9	11.7	7.3	3.3		632.3	92.1
1530	9.6	7.7	84.2	10.0	7.8	83.8	11.0	8.0	79.9	11.6	7.6	3.5		508.3	75.1
1600	9.4	7.5	83.8	9.7	7.7	83.8	10.8	7.9	79.7	12.1	7.8	3.7		446.2	66.6
1630	9.3	7.4	82.7	9.7	7.6	82.2	11.1	7.7	77.0	12.9	8.0	3.8		552.5	84.5
1700	9.3	7.5	83.5	9.7	7.6	82.6	10.6	7.6	78.6	12.6	8.0	4.0		432.7	66.2
1730	9.0	7.4	83.8	9.4	7.4	82.1	10.2	7.5	78.8	12.6	8.1	4.2		447.1	69.4
1800	9.1	7.3	82.3	9.5	7.3	80.8	10.3	7.4	77.8	13.1	8.3	3.7		482.1	79.8
1830	9.2	7.2	80.5	9.4	7.2	79.5	10.2	7.2	76.3	13.4	8.6	3.6		369.1	61.0
1900	8.8	7.0	81.1	9.1	7.0	79.6	10.0	7.1	75.9	12.8	8.6	4.4		453.7	77.3
1930	8.6	6.9	80.5	8.9	6.9	78.8	9.8	6.9	74.6	13.5	8.9	3.3		440.5	80.6
2000	7.7	6.7	83.1	7.8	6.7	82.8	8.4	6.7	79.6	12.1	8.6	4.7		271.0	49.9
2030	6.4	6.5	88.1	6.5	6.6	88.2	6.7	6.6	87.0	9.5	8.1	4.5		124.6	20.8
2100	6.0	6.5	89.3	6.1	6.5	88.8	6.4	6.5	87.9	8.7	8.1	4.5		123.2	17.7
2130	5.9	6.5	90.3	6.0	6.5	89.4	6.3	6.5	88.6	8.2	7.8	4.1		113.8	16.4
2200	5.8	6.5	90.7	5.9	6.5	90.4	6.1	6.5	89.9	7.6	7.3	4.2		83.4	11.3
2230	5.6	6.5	92.2	5.7	6.5	91.8	5.7	6.5	91.1	7.0	6.9	4.3		76.0	12.4
2300	5.1	6.4	93.8	5.2	6.5	94.5	5.3	6.5	93.7	6.4	6.5	4.5		79.1	14.9
2330	4.7	6.3	95.5	4.7	6.3	95.3	4.7	6.3	95.2	5.7	6.3	4.0		48.6	7.8
Max	10.1	8.1	100.0	10.5	8.3	100.0	11.7	8.5	100.0	13.5	8.9	4.8		632.3	92.1
Min	4.7	6.3	80.5	4.7	6.3	78.8	4.3	6.3	74.6	4.6	4.9	3.0		20.1	1.9
Ave	7.1	7.2	92.9	7.3	7.3	92.8	7.6	7.3	91.3	8.3	6.5	3.8		183.7	28.2
Sum														15.9	2.4

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-15.0	-4.0		120.8	0.25	2.56	1.94	1.42	58	0.75	0.16	0.008	2.93	352.5	353.0 A
-6.4	-3.5		94.7	0.22	2.00	1.53	1.04	61	1.10	0.13	0.014	2.57	353.6	
-15.7	-5.1		76.6	0.16	1.90	1.28	0.86	77		0.15	0.027	2.49	354.6	352.7 A
-15.8	-8.2		64.2	0.13	1.03	0.35	0.40	99		0.13	0.944	0.87	355.7	
6.0	-6.4		51.4	0.14	0.98	0.46	0.36	90		0.10	0.948	0.77	358.4	352.9 A
-6.7	-2.5		45.8	0.12	1.62	1.13	0.60	87		0.13	0.017	2.22	357.1	
-1.6	-3.9		43.3	0.14	1.92	1.25	0.84	116		0.15	0.030	2.37	357.3	353.0 A
19.4	2.4		49.0	0.14	2.67	2.14	1.52	132	0.21	0.14	-0.004	2.24	355.5	
14.5	5.9		49.0	0.08	2.77	2.11	1.68	130	0.31	0.15	-0.003	2.28	356.2	352.9 A
7.3	5.0		60.1	0.09	1.86	1.23	0.92	118	1.94	0.13	0.029	1.69	357.0	
24.6	8.2		61.4	0.09	1.91	1.61	1.12	97	0.19	0.10	-0.016	2.24	356.1	352.5 D
28.5	8.8		88.5	0.12	3.09	2.37	1.80	95	0.39	0.17	-0.012	3.20	355.1	
42.9	9.7		114.0	0.12	3.38	2.59	2.00	86	0.34	0.19	-0.015	3.84	353.8	352.1 D
54.8	12.3		139.6	0.12	3.10	2.42	1.97	86	0.16	0.15	-0.054	3.54	353.2	
85.0	14.8		235.6	0.16	3.74	2.93	2.14	81	0.35	0.21	-0.022	4.43	352.8	351.7 D
96.3	17.5		271.4	0.17	4.17	3.37	2.46	86	0.15	0.21	-0.022	4.09	351.9	
98.3	16.4		295.0	0.15	4.25	3.35	2.41	90	0.22	0.22	-0.018	4.20	351.7	351.2 A
200.2	25.6		633.4	0.17	4.12	3.34	2.37	92	0.19	0.21	-0.039	5.03		
121.7	29.9		345.0	0.16	3.91	3.01	2.09	105	0.39	0.22	-0.036	5.01		351.1 A
94.7	21.6		252.7	0.15	4.13	3.08	2.18	107	1.00	0.27	-0.020	6.07		
92.8	18.7		241.9	0.14	4.66	3.55	2.40	102	0.59	0.28	-0.013	5.12		351.0 A
117.7	22.4		314.5	0.14	5.23	4.01	2.81	106	0.65	0.32	-0.012	6.59		
127.0	24.3		347.8	0.14	6.26	4.64	3.36	107	0.93	0.39	-0.012	7.10		350.6
96.9	19.2		271.8	0.14	5.41	4.05	2.82	113	0.60	0.32	-0.010	5.71		
79.7	16.2		224.3	0.13	4.74	3.42	2.60	111	0.79	0.29	-0.010	5.54		350.4
118.1	21.0		328.3	0.12	5.47	3.84	2.97	107	0.93	0.34	-0.013	6.07		
75.4	14.5		199.6	0.12	5.55	4.23	2.97	101	0.77	0.34	-0.006	6.50		350.4
215.1	28.1		596.7	0.13	5.88	4.40	3.17	99	0.81	0.37	-0.013	7.96		
281.5	39.7		831.6	0.14	6.48	4.74	3.61	106	0.75	0.40	-0.015	8.69		349.3 V
323.7	45.4		950.5	0.14	6.68	5.23	3.69	104	0.34	0.37	-0.017	7.22		
487.6	62.6		1459.3	0.15	7.80	5.79	4.25	114	0.76	0.48	-0.020	10.13		349.0 D
401.3	49.6		1205.2	0.15	7.59	5.48	4.10	117	0.87	0.47	-0.018	9.66		
353.8	47.2		1052.9	0.15	6.82	5.05	3.75	109	0.82	0.42	-0.023	9.15		348.7 A
433.6	56.4		1360.7	0.15	6.10	4.63	3.46	109	0.74	0.38	-0.028	9.65		
316.7	45.1		1068.3	0.15	6.20	4.70	3.61	109	0.42	0.35	-0.032	7.82		348.9 A
334.8	42.9		1066.8	0.16	5.61	4.40	3.56	108	0.16	0.28	-0.045	7.00	351.7	
353.5	43.4		1161.0	0.17	5.79	4.62	3.40	100	0.29	0.31	-0.031	7.02	348.2	349.2 D
255.9	39.0		885.2	0.17	5.58	4.37	3.29	99	0.39	0.31	-0.026	7.37	345.6	
346.0	35.8		1090.4	0.17	5.99	4.88	3.72	98	0.19	0.31	-0.033	7.47	345.1	349.5 D
327.9	42.0		1043.0	0.18	5.92	4.84	3.62	95	0.24	0.31	-0.035	7.69	344.8	
170.8	22.3		665.7	0.18	6.09	4.64	3.54	100	0.51	0.35	-0.015	7.23	345.3	349.8 D
60.2	5.3		322.3	0.17	5.50	4.15	3.07	102	0.66	0.33	-0.006	6.54	345.7	
82.2	6.3		301.8	0.14	5.46	4.00	3.16	104	0.53	0.31	-0.011	5.66	345.9	350.1 A
73.2	7.2		277.5	0.14	5.26	3.96	2.91	103	0.67	0.32	-0.011	5.98	345.9	
54.1	5.4		203.7	0.14	5.07	3.72	2.85	109	0.77	0.31	-0.007	5.93	346.3	350.3 A
21.0	1.7		190.0	0.16	4.32	3.06	2.43	107	0.86	0.27	-0.006	4.72	345.5	
20.5	-0.3		186.9	0.19	4.64	3.39	2.66	98	0.63	0.28	-0.007	5.13	345.7	350.5
-0.9	-2.7		123.4	0.16	3.28	2.49	1.80	91	0.85	0.21	-0.004	3.80	346.8	
487.6	62.6		1459.3	0.25	7.80	5.79	4.25	132	1.94	0.48	0.948	10.13	358.4	353.0
-15.8	-8.2		43.3	0.08	0.98	0.35	0.36	58	0.15	0.10	-0.054	0.77	344.8	348.7
134.4	18.8		438.8	0.15	4.47	3.37	2.49	100	0.59	0.26	0.027	5.34	351.2	350.9
11.6	1.6													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	4.5	6.4	97.1	4.5	6.3	96.6	4.5	6.3	96.7	5.1	6.0	4.0		32.9	3.8
030	4.2	6.4	100.0	4.4	6.5	99.6	4.4	6.4	98.8	5.1	5.4	4.1		36.8	5.9
100	3.7	6.2	100.0	3.7	6.2	100.0	3.7	6.2	100.0	4.7	5.3	4.4		23.7	1.7
130	3.3	6.1	100.0	3.3	6.1	100.0	3.3	6.1	100.0	4.2	5.1	4.6		22.3	1.1
200	3.3	6.1	99.9	3.4	6.0	99.2	3.3	6.0	99.8	3.7	5.1	3.2		21.9	2.4
230	3.3	5.9	98.1	3.3	5.9	98.1	3.1	5.9	98.8	3.2	4.7	3.7		24.3	2.3
300	3.6	5.9	96.1	3.6	5.9	96.1	3.5	5.9	97.2	3.1	4.2	3.5		33.6	7.3
330	4.3	6.0	92.6	4.4	6.0	92.4	4.3	6.1	93.8	3.7	4.1	3.8		27.4	5.5
400	4.2	5.8	90.4	4.3	5.8	89.7	4.2	5.8	91.0	3.5	4.5	2.8		31.3	5.9
430	4.2	5.8	89.8	4.3	5.7	88.5	4.3	5.8	89.3	3.7	3.9	3.0		33.6	6.0
500	4.2	5.8	89.9	4.3	5.7	88.9	4.3	5.8	89.5	3.9	3.9	3.0		43.9	7.6
530	4.2	5.8	89.4	4.4	5.7	88.2	4.4	5.8	88.6	3.9	3.8	2.6		48.5	8.9
600	4.6	5.8	87.9	4.8	5.8	86.5	4.9	5.8	86.1	4.2	3.9	2.3		89.2	21.5
630	4.5	5.7	87.6	4.6	5.7	86.3	4.6	5.7	86.8	4.2	3.8	2.6		60.4	10.4
700	4.3	5.7	88.1	4.4	5.6	86.8	4.5	5.7	87.3	4.3	3.6	2.1		83.2	14.0
730	4.3	5.7	88.1	4.5	5.7	86.8	4.6	5.7	86.7	4.6	3.9	2.8		105.6	15.4
800	4.4	5.8	88.4	4.6	5.7	87.1	4.6	5.8	87.8	4.7	4.0	1.9		64.2	7.8
830	4.8	5.9	88.3	5.0	5.9	87.2	5.4	6.0	85.8	5.3	4.3	1.7		192.3	29.8
900	5.2	5.9	86.1	5.6	5.9	84.2	6.2	6.0	81.3	5.6	4.8	1.9		296.0	51.4
930	5.5	6.0	85.6	5.8	6.0	83.2	6.6	6.0	79.9	5.8	4.5	2.0		340.0	61.5
1000	5.6	6.1	86.0	6.0	5.9	82.2	6.8	6.0	78.6	6.6	4.7	2.9		404.1	68.7
1030	6.0	6.1	84.6	6.3	6.0	81.1	7.5	6.1	76.4	7.5	5.0	2.8		497.5	83.3
1100	5.9	6.1	84.2	6.4	5.9	79.9	7.4	6.0	76.0	8.0	5.8	2.8		513.0	85.0
1130	6.9	6.2	80.8	7.4	6.1	76.9	8.6	6.2	72.5	9.7	6.5	2.3		503.8	80.3
1200	7.0	6.2	80.9	7.6	6.1	76.8	8.8	6.3	72.5	10.5	6.9	2.5		535.3	84.7
1230	6.6	6.2	82.2	7.1	6.1	78.5	8.2	6.3	75.0	10.2	7.1	3.2		513.1	78.0
1300	6.9	6.3	81.8	7.5	6.2	77.2	8.7	6.3	73.8	11.2	7.3	3.4		511.5	77.3
1330	6.3	6.3	84.8	6.8	6.2	80.8	7.9	6.3	76.7	11.5	7.8	2.8		463.4	71.4
1400	6.5	6.4	85.3	7.1	6.2	80.2	8.4	6.4	76.1	12.1	8.0	3.5		624.9	95.7
1430	6.1	6.3	86.7	6.7	6.2	82.0	8.0	6.4	77.7	12.7	8.3	3.3		614.8	93.9
1500	6.0	6.3	87.9	6.5	6.2	83.3	7.8	6.4	78.7	12.8	8.5	3.9		574.9	87.2
1530	5.6	6.3	88.7	6.1	6.1	84.6	7.1	6.2	80.4	12.4	8.6	3.7		424.8	65.4
1600	6.1	6.2	85.3	6.7	6.1	81.1	8.1	6.4	77.0	14.4	8.5	4.5		664.4	102.0
1630	5.6	6.2	88.0	6.0	6.1	84.7	6.9	6.3	81.8	13.4	8.8	4.5		343.0	51.1
1700	4.9	6.2	91.3	5.3	6.1	88.0	5.9	6.2	86.0	11.5	8.6	4.8		214.0	30.3
1730	5.0	6.2	91.1	5.3	6.1	87.7	6.0	6.2	85.1	11.3	8.8	4.4		241.9	35.1
1800	4.9	6.2	91.7	5.2	6.1	88.7	5.7	6.2	87.0	10.6	8.3	4.6		168.6	24.9
1830	4.9	6.2	91.7	5.3	6.1	88.6	5.9	6.2	86.7	10.3	8.2	4.3		230.6	35.0
1900	6.1	6.2	85.7	6.4	6.2	83.0	7.4	6.4	80.8	13.1	8.1	4.7		385.7	62.4
1930	5.8	6.3	87.8	6.1	6.2	84.6	6.7	6.3	83.7	11.9	8.3	4.3		220.0	36.3
2000	5.5	6.3	90.1	5.8	6.2	87.1	6.3	6.3	85.9	11.4	8.2	4.8		202.9	32.7
2030	5.3	6.4	91.9	5.6	6.3	88.9	6.0	6.4	87.9	10.4	8.4	4.5		144.0	23.4
2100	5.3	6.2	90.6	5.4	6.2	88.8	5.9	6.3	87.6	9.7	8.1	4.5		172.8	32.5
2130	5.3	6.3	91.2	5.5	6.2	88.7	5.9	6.3	87.7	9.6	7.6	4.8		142.7	24.4
2200	5.1	6.3	92.0	5.3	6.2	89.3	5.6	6.3	89.0	8.8	7.6	4.5		95.1	16.0
2230	4.9	6.3	93.8	5.1	6.2	91.3	5.3	6.3	90.8	8.3	7.3	4.6		80.6	10.8
2300	4.9	6.4	94.9	5.1	6.3	92.1	5.2	6.3	92.1	7.4	7.1	4.1		49.8	7.4
2330	4.8	6.4	96.1	5.0	6.3	92.8	5.2	6.3	92.3	6.7	6.6	4.5		47.9	6.2
Max	7.0	6.4	100.0	7.6	6.5	100.0	8.8	6.4	100.0	14.4	8.8	4.8		664.4	102.0
Min	3.3	5.7	80.8	3.3	5.6	76.8	3.1	5.7	72.5	3.1	3.6	1.7		21.9	1.1
Ave	5.1	6.1	89.8	5.4	6.0	87.4	5.9	6.1	85.9	7.9	6.3	3.5		233.3	36.9
Sum														20.2	3.2

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-1.0	-3.2		82.7	0.12	3.64	2.98	2.12	98	0.34	0.20	0.001	3.63	347.0	350.8 D
20.6	0.9		82.1	0.16	4.57	3.52	2.60	94	0.58	0.27	-0.007	4.51	347.1	
2.3	-1.4		50.5	0.07	3.90	2.96	2.12	88	0.99	0.25	-0.001	4.22	347.6	351.0
-9.0	-3.9		46.9	0.05	4.00	3.13	2.24	81	0.25	0.21	-0.001	3.26	347.3	
-21.3	-6.1		52.0	0.11	3.77	2.86	2.15	83	0.57	0.22	0.004	4.03	346.6	351.1
-29.5	-8.3		52.4	0.09	3.10	2.33	1.65	94	0.87	0.19	0.017	3.34	347.3	
1.9	-5.3		61.8	0.22	2.60	1.81	1.41	99	1.05	0.17	0.017	2.39	347.5	351.0
4.1	1.0		48.0	0.20	3.44	2.71	2.01	81	0.39	0.19	0.002	3.26	346.7	
0.1	-0.3		53.7	0.19	3.71	2.97	1.95	80	0.45	0.22	0.001	3.70	347.1	350.9
17.9	2.5		66.0	0.18	4.68	3.42	2.53	74	0.97	0.30	-0.002	5.39	347.2	
28.5	4.4		90.7	0.17	4.87	3.62	2.70	76	0.73	0.29	-0.004	5.18	347.1	351.0
42.2	5.8		103.0	0.18	5.25	4.15	2.98	83	0.51	0.31	-0.004	6.00	347.0	
59.3	7.9		161.2	0.24	6.24	4.65	3.43	92	0.74	0.38	-0.005	7.25	347.1	351.2
42.0	6.8		133.7	0.17	5.20	4.22	3.16	105	0.10	0.25	-0.003	4.32	347.6	
59.4	8.3		195.6	0.17	5.24	3.77	2.80	107	0.92	0.33	-0.005	6.10	347.4	351.2
73.2	9.6		243.8	0.15	4.82	3.66	2.85	107	0.41	0.27	-0.014	4.64	347.3	
54.0	9.2		158.9	0.12	3.70	2.99	2.29	113	0.08	0.17	-0.017	2.92	347.1	351.1
150.2	16.7		479.1	0.15	4.78	3.65	2.68	94	0.66	0.29	-0.019	6.52	346.8	
193.1	23.1		728.1	0.17	4.97	3.93	3.06	101	0.23	0.26	-0.043	6.54	346.8	350.9
231.7	28.2		833.9	0.18	5.88	4.58	3.43	90	0.42	0.33	-0.024	7.87	349.9	
291.0	34.3		975.8	0.17	5.53	4.27	3.25	95	0.37	0.31	-0.032	7.86	341.7	351.1
364.2	45.2		1185.7	0.17	5.79	4.58	3.41	100	0.29	0.31	-0.036	7.84	342.9	
369.8	49.0		1207.2	0.17	5.57	4.37	3.38	107	0.25	0.29	-0.045	8.08	343.3	351.2
360.8	60.3		1190.5	0.16	4.61	3.84	2.92	103	0.06	0.21	-0.071	6.00	343.2	
389.3	60.1		1266.4	0.16	4.47	3.66	2.85	99	0.05	0.19	-0.090	6.06	342.8	351.0
367.2	57.8		1216.3	0.15	4.71	3.66	2.91	93	0.10	0.22	-0.065	5.81	343.7	
372.8	61.6		1223.7	0.15	4.21	3.37	2.60	89	0.22	0.22	-0.086	7.95	343.0	351.0
353.2	49.3		1103.3	0.15	4.51	3.72	2.75	92	0.10	0.22	-0.057	5.98	343.5	
449.9	69.7		1468.9	0.15	4.64	3.80	2.76	96	0.13	0.23	-0.061	6.50	343.4	351.0
440.8	68.7		1444.0	0.15	4.39	3.58	2.72	94	0.08	0.20	-0.078	6.32	343.5	
416.7	60.1		1334.8	0.15	4.77	3.93	2.89	85	0.13	0.24	-0.051	6.54	343.4	350.9
305.1	45.2		1016.9	0.15	4.64	3.82	2.85	91	0.09	0.22	-0.059	5.71	343.6	
498.8	68.7		1572.8	0.15	3.72	2.96	2.13	90	0.22	0.20	-0.086	6.43	343.2	350.9
233.6	44.3		834.0	0.15	3.74	3.07	2.22	87	0.16	0.19	-0.057	5.40	343.8	
149.5	22.3		510.9	0.14	3.46	2.83	2.13	91	0.08	0.16	-0.076	4.58	343.8	350.8
176.4	22.8		590.6	0.15	3.08	2.57	1.92	95	0.07	0.14	-0.122	4.68	343.6	
116.6	18.0		413.9	0.15	3.32	2.71	1.96	94	0.16	0.17	-0.051	4.41	343.9	350.9
171.9	19.9		566.5	0.15	2.65	2.21	1.72	94	0.04	0.11	-0.143	4.49	343.5	
269.0	41.8		924.9	0.16	2.04	1.85	1.32	90	0.06	0.10	-0.356	5.48	343.8	350.8
126.4	26.2		553.1	0.17	1.94	1.53	1.18	77	0.27	0.10	-0.195	5.56	344.1	
135.4	23.6		502.3	0.16	1.27	1.10	0.88	85	0.03	0.05	-0.831	5.03	343.9	350.8
94.5	18.8		356.4	0.16	1.68	1.53	1.12	60	0.03	0.07	-0.201	3.85	343.8	
95.2	14.0		427.6	0.19	1.90	1.55	1.17	46	0.08	0.09	-0.127	3.50	343.6	350.9
79.7	13.0		338.8	0.17	1.15	1.01	0.74	47	0.05	0.05	-0.317	3.68	344.1	
60.3	12.9		227.7	0.17	0.93	0.80	0.63	61	0.02	0.04	-1.305	4.35	344.2	351.1
43.3	9.2		189.4	0.13	0.51	0.54	0.42	126		0.06		5.71	344.3	
26.7	5.8		118.0	0.15	0.47	0.37	0.37	287	0.56	0.03		10.01	344.4	351.3
28.1	4.5		105.9	0.13	1.56	1.30	1.02	323	0.05	0.07	-0.292	2.71	345.5	
498.8	69.7		1572.8	0.24	6.24	4.65	3.43	323	1.05	0.38	0.017	10.01	349.9	351.3
-29.5	-8.3		46.9	0.05	0.47	0.37	0.37	46	0.02	0.03	-1.305	2.39	341.7	350.8
160.5	23.4		554.0	0.16	3.74	2.97	2.22	99	0.32	0.20	-0.109	5.32	345.1	351.0
13.9	2.0													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	4.3	6.3	97.5	4.5	6.2	94.6	4.6	6.2	93.7	6.1	6.1	4.8		33.1	3.4
030	3.6	6.1	99.3	3.7	6.0	97.0	3.7	6.0	96.4	5.3	6.1	4.1		11.3	1.4
100	3.2	6.0	99.8	3.3	5.9	97.1	3.4	5.9	96.9	4.8	5.8	4.5		8.6	0.2
130	2.9	5.8	99.1	3.0	5.7	96.0	3.1	5.7	96.3	4.4	5.5	4.2		9.7	1.1
200	2.7	5.8	99.8	2.9	5.7	96.5	2.9	5.8	98.6	4.3	5.1	3.9		8.5	0.6
230	2.9	5.8	99.1	2.9	5.7	97.2	3.0	5.8	97.3	4.1	4.9	3.7		6.9	0.0
300	2.4	5.7	99.9	2.5	5.6	98.0	2.5	5.7	98.8	3.7	4.8	3.6		5.8	0.7
330	2.4	5.7	100.0	2.4	5.6	98.8	2.5	5.7	99.4	3.5	4.6	3.6		5.6	0.3
400	2.3	5.7	100.0	2.3	5.6	99.0	2.4	5.6	99.2	3.3	4.4	3.5		6.3	0.4
430	2.3	5.7	100.0	2.3	5.6	98.8	2.4	5.6	99.2	3.3	4.2	3.4		7.6	0.3
500	2.4	5.7	100.0	2.5	5.6	98.5	2.5	5.7	99.2	3.3	4.0	3.2		10.0	0.4
530	2.4	5.7	100.0	2.4	5.6	98.7	2.5	5.7	99.2	3.3	3.9	3.1		19.6	1.9
600	2.3	5.7	100.0	2.4	5.6	98.3	2.4	5.6	99.0	3.3	3.8	3.0		19.1	1.9
630	2.2	5.6	100.0	2.3	5.5	98.0	2.4	5.6	98.9	3.4	3.7	2.9		38.0	4.5
700	2.7	5.8	100.0	2.8	5.7	97.7	3.0	5.8	98.6	3.9	3.7	2.7		76.0	8.7
730	2.7	5.8	100.0	2.8	5.7	97.3	2.9	5.8	98.4	4.0	3.7	2.7		59.5	6.8
800	2.8	5.9	99.9	3.0	5.8	97.7	3.1	5.8	98.1	4.2	3.7	2.6		97.9	12.0
830	3.1	5.9	98.3	3.2	5.8	97.0	3.3	5.9	97.2	4.4	3.8	2.6		74.2	9.1
900	2.9	5.8	98.0	3.0	5.7	96.6	3.2	5.9	97.7	4.1	3.7	2.3		64.9	7.2
930	3.3	5.9	97.3	3.4	5.8	95.7	3.7	6.0	96.9	4.4	3.8	2.2		115.7	14.0
1000	3.8	6.0	96.3	4.0	6.0	94.1	4.5	6.2	95.0	5.4	3.8	2.4		210.2	26.1
1030	3.7	6.0	96.6	4.1	6.0	94.1	4.5	6.2	95.2	6.3	4.3	2.2		250.4	32.6
1100	4.0	6.0	94.8	4.3	6.0	92.3	4.9	6.3	93.7	7.0	4.4	2.7		335.9	43.1
1130	4.4	6.0	92.4	4.8	6.1	90.8	5.6	6.4	90.5	7.9	5.0	2.5		387.0	50.9
1200	4.7	6.2	92.9	5.1	6.2	90.5	5.9	6.5	90.8	8.1	5.2	2.3		418.2	59.0
1230	5.1	6.2	91.3	5.7	6.2	88.1	6.8	6.7	88.0	8.8	6.1	2.8		546.0	74.8
1300	5.8	6.4	89.9	6.3	6.4	86.9	7.4	6.9	87.0	9.4	6.7	2.5		516.3	72.3
1330	6.1	6.4	87.5	6.8	6.4	83.7	7.9	6.8	83.5	9.8	7.1	3.0		601.0	87.4
1400	6.0	6.4	89.2	6.6	6.4	85.1	7.7	6.7	83.5	10.0	7.4	3.1		613.4	91.2
1430	5.5	6.4	90.5	6.2	6.3	86.0	7.3	6.6	83.8	10.6	7.7	3.1		584.5	87.6
1500	5.8	6.3	87.9	6.4	6.2	83.3	7.5	6.6	82.1	11.0	8.0	3.5		590.4	86.4
1530	6.1	6.4	87.8	6.7	6.3	83.4	7.8	6.7	81.8	11.4	7.6	3.8		610.3	90.9
1600	6.0	6.5	90.5	6.5	6.4	86.1	7.4	6.6	83.4	11.2	8.1	3.5		564.5	87.6
1630	6.1	6.5	89.3	6.5	6.4	85.7	7.5	6.6	82.9	11.3	8.1	4.1		539.6	83.2
1700	5.4	6.4	92.2	5.8	6.4	89.1	6.6	6.5	87.0	11.3	8.4	4.6		392.8	60.4
1730	5.3	6.3	91.1	5.7	6.3	88.4	6.5	6.5	86.3	11.1	8.1	4.7		400.4	63.8
1800	6.1	6.3	86.2	6.6	6.3	84.5	7.3	6.5	82.9	10.9	8.0	4.6		448.9	74.9
1830	6.5	6.3	84.9	6.8	6.4	83.6	7.5	6.5	82.0	10.9	8.3	4.2		428.0	74.1
1900	6.8	6.4	83.8	7.0	6.4	82.7	7.7	6.5	80.8	10.7	8.3	4.4		384.3	66.4
1930	6.7	6.4	84.3	6.9	6.4	83.5	7.4	6.4	81.0	10.3	8.1	4.6		342.7	62.7
2000	6.2	6.3	85.4	6.3	6.3	85.8	6.8	6.3	83.1	9.9	8.0	4.6		290.4	53.4
2030	6.3	6.3	84.9	6.4	6.3	84.8	6.7	6.3	82.9	9.3	7.4	4.9		264.4	50.8
2100	6.8	6.4	83.9	6.3	6.3	86.1	6.6	6.2	82.4	8.9	7.3	4.2		250.6	57.3
2130	6.6	6.7	88.8	6.0	6.8	94.4	6.3	6.1	82.7	8.3	7.5	4.1		215.5	49.0
2200	6.1	7.2	99.2	5.8	7.2	100.0	6.2	6.1	83.8	7.5	7.2	4.1		185.2	45.0
2230	5.8	7.2	100.0	5.7	7.0	99.5	5.9	6.3	87.1	6.7	6.7	4.3		157.7	39.6
2300	5.7	6.4	89.7	5.6	6.5	92.4	5.8	6.6	91.9	6.0	6.7	3.7		128.5	33.7
2330	5.6	6.1	86.5	5.5	6.1	87.7	5.6	6.4	91.3	5.2	6.0	3.8		104.7	28.7
Max	6.8	7.2	100.0	7.0	7.2	100.0	7.9	6.9	99.4	11.4	8.4	4.9		613.4	91.2
Min	2.2	5.6	83.8	2.3	5.5	82.7	2.4	5.6	80.8	3.3	3.7	2.2		5.6	0.0
Ave	4.5	6.1	93.9	4.7	6.1	92.1	5.1	6.2	90.9	7.0	5.9	3.5		238.3	37.7
Sum														20.6	3.3

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
22.0	3.0		70.3	0.10	2.32	1.97	1.42	319	0.11	0.11	-0.080	2.48	345.7	351.4
10.4	-0.6		24.5	0.13	2.20	1.73	1.34	303	0.11	0.10	-0.042	2.09	346.0	
11.8	-1.5		18.5		2.14	1.74	1.34	295	0.07	0.10	-0.029	2.20	346.1	351.5 A
15.6	-1.7		18.2		2.51	1.92	1.53	320	0.33	0.14	-0.058	2.70	345.9	
10.8	-1.6		14.6		1.04	0.78	0.64	267	0.29	0.06	-0.212	2.34	346.4	351.8 V
10.9	-1.4		11.4		2.00	1.63	1.28	291	0.04	0.09	-0.033	1.78	347.5	
14.3	-1.7		10.6		2.71	1.99	1.53	313	0.63	0.16	-0.014	3.27		351.6 A
15.3	-1.8		9.1		2.96	2.14	1.58	309	1.06	0.19	-0.009	3.54		
15.0	-1.6		10.9		2.45	1.69	1.20	319	1.88	0.17	-0.012	3.06		351.6 A
16.8	-1.3		14.8		2.57	1.75	1.26	293	1.82	0.18	-0.008	3.69		
17.6	-0.4		20.8		2.80	1.79	1.36	272		0.20	-0.008	3.33		351.4 A
25.3	1.0		42.7	0.10	3.20	2.11	1.57	190		0.24	-0.004	4.51		
24.1	1.6		41.9	0.10	3.05	1.89	1.69	305	1.88	0.22	-0.012	3.57		351.4
39.2	3.0		86.6	0.12	2.96	2.09	1.49	194	1.65	0.21	-0.011	4.19		
65.0	10.3		173.9	0.11	2.69	2.02	1.37	149	1.34	0.19	-0.019	4.58		351.4
54.4	8.6		140.1	0.11	3.07	2.19	1.62	105	1.10	0.20	-0.019	4.18		
85.3	11.0		226.7	0.12	3.99	2.98	2.27	25	0.58	0.23	-0.013	4.71		351.3
64.4	11.7		176.2	0.12	3.76	2.83	2.01	31	0.86	0.24	-0.009	4.90		
62.3	8.8		162.4	0.11	3.38	2.51	1.95	30	0.50	0.19	-0.023	4.24	364.0	351.1
104.9	12.4		287.3	0.12	3.53	2.82	2.09	37	0.25	0.19	-0.030	4.34	362.1	
172.9	23.3		505.5	0.12	3.26	2.61	2.06	42	0.06	0.15	-0.071	3.89	359.9	350.9
200.5	29.7		605.2	0.13	3.62	2.95	2.32	30	0.13	0.18	-0.063	5.46	358.9	
269.9	37.5		823.8	0.13	3.60	2.88	2.24	23	0.18	0.18	-0.080	5.93	356.3	350.7
308.5	45.6		939.9	0.13	4.09	3.41	2.64	28	0.04	0.17	-0.085	5.03	354.8	
326.7	47.3		1016.1	0.14	4.09	3.34	2.71	30	0.07	0.18	-0.095	6.52	353.6	350.1 A
429.1	63.3		1341.6	0.14	3.97	3.21	2.68	51	0.06	0.18	-0.136	7.57	353.9	
395.3	68.8		1261.9	0.14	3.87	3.26	2.53	45	0.04	0.17	-0.093	5.72	353.0	350.2 A
458.5	74.0		1432.9	0.15	4.76	4.06	3.10	51	0.04	0.20	-0.085	6.04	353.4	
465.2	71.9		1433.7	0.15	4.86	4.05	3.11	61	0.05	0.21	-0.077	6.03	352.1	350.3 A
446.6	64.8		1414.2	0.15	5.00	4.19	3.17	70	0.06	0.23	-0.055	6.41	352.6	
446.7	65.6		1365.6	0.15	4.84	4.00	3.12	67	0.04	0.21	-0.083	5.96	353.1	350.9
464.5	63.4		1434.6	0.15	5.61	4.52	3.41	70	0.11	0.27	-0.040	6.49	353.2	
439.3	52.5		1303.1	0.16	6.42	5.17	3.78	74	0.14	0.32	-0.027	6.57	353.3	350.9
415.6	51.4		1285.7	0.15	6.08	4.93	3.55	76	0.17	0.31	-0.028	6.50	353.3	
311.3	40.0		888.5	0.15	5.63	4.48	3.29	67	0.20	0.29	-0.030	6.29	353.2	350.9
316.5	36.6		917.8	0.16	5.62	4.46	3.40	67	0.13	0.28	-0.027	6.12	352.9	
341.0	37.1		1076.8	0.17	5.96	4.72	3.69	61	0.22	0.31	-0.029	7.71	352.7	350.9
312.7	32.3		1014.4	0.17	6.44	5.13	3.81	63	0.25	0.34	-0.019	7.27	352.5	
269.4	27.5		956.5	0.17	6.40	4.72	3.61	70	0.68	0.39	-0.016	8.26	352.7	351.1
232.4	23.5		820.1	0.18	6.29	4.96	3.73	72	0.16	0.32	-0.012	6.17	352.9	
191.0	18.7		696.1	0.18	6.87	5.11	3.69	74	0.92	0.43	-0.009	8.41	353.5	351.2
153.6	10.9		658.5	0.19	6.75	5.41	3.93	80	0.29	0.36	-0.007	6.60	353.4	
137.3	5.2		622.5	0.23	7.53	5.75	4.24	82	0.59	0.45	0.003	8.20	353.3	351.3 A
102.0	1.4		535.1	0.23	7.03	5.50	4.05	83	0.43	0.40	0.005	6.82	353.1	
69.6	-0.8		446.3	0.24	7.36	5.50	4.09	87	0.80	0.46	-0.001	8.33	353.1	351.3 A
40.6	-1.9		366.4	0.25	7.68	5.77	4.26	88	0.71	0.47	-0.001	8.33	353.1	
12.9	-2.9		278.7	0.26	6.98	5.39	4.12	90	0.41	0.39	-0.002	7.23	353.0	351.5 A
-10.0	-3.8		220.5	0.27	7.11	5.69	3.93	91	0.64	0.43	-0.001	7.70	352.9	
465.2	74.0		1434.6	0.27	7.68	5.77	4.26	320	1.88	0.47	0.005	8.41	364.0	351.8
-10.0	-3.8		9.1	0.10	1.04	0.78	0.64	23	0.04	0.06	-0.212	1.78	345.7	350.1
175.1	21.7		567.2	0.16	4.44	3.45	2.60	128	0.48	0.24	-0.038	5.36	353.0	351.1
15.1	1.9													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	5.2	6.0	87.6	5.2	6.1	88.6	5.2	6.4	92.9	4.7	5.9	3.5		81.0	21.0
030	5.1	6.2	90.6	5.0	6.2	91.6	4.9	6.4	95.2	4.3	5.4	3.6		60.3	18.2
100	4.8	6.2	93.4	4.8	6.3	94.1	4.6	6.3	95.2	4.0	5.0	3.7		46.6	14.1
130	4.7	6.3	94.8	4.6	6.3	95.9	4.5	6.3	96.9	3.7	4.9	2.7		34.4	9.4
200	4.6	6.3	95.9	4.6	6.4	96.7	4.5	6.4	97.4	3.9	4.7	2.9		18.9	1.4
230	4.3	6.2	96.4	4.3	6.3	97.3	4.1	6.3	98.6	3.7	4.6	2.8		18.7	0.0
300	4.0	6.2	97.4	4.0	6.3	98.5	3.9	6.2	99.4	3.6	4.1	3.4		19.3	2.2
330	4.0	6.1	96.8	4.0	6.2	98.0	3.9	6.2	98.3	3.4	4.4	2.9		22.3	0.5
400	4.1	6.1	96.0	4.1	6.2	96.7	3.9	6.2	98.2	3.4	3.6	2.4		25.4	5.5
430	4.1	6.1	95.1	4.1	6.1	96.4	3.9	6.1	97.5	3.2	4.1	2.4		57.2	11.2
500	4.3	6.0	92.5	4.3	6.1	94.0	4.0	6.1	95.2	2.7	4.1	2.5		77.8	16.4
530	4.7	6.1	92.1	4.7	6.1	92.7	4.5	6.1	93.5	2.7	3.4	3.0		98.4	22.2
600	4.8	6.1	91.6	4.9	6.1	91.6	4.8	6.2	92.9	2.9	3.6	2.4		123.7	26.6
630	5.2	6.2	90.3	5.2	6.2	90.7	5.2	6.3	91.2	3.1	3.2	2.3		150.5	33.1
700	5.5	6.3	89.3	5.6	6.3	89.7	5.6	6.3	89.6	3.4	3.2	2.5		181.9	37.2
730	5.8	6.3	88.5	6.0	6.4	88.6	6.1	6.4	87.7	3.7	4.0	1.9		215.3	42.0
800	6.2	6.4	86.9	6.4	6.4	86.5	6.6	6.4	85.5	4.0	3.2	2.2		248.2	49.5
830	6.5	6.4	85.4	6.7	6.4	84.9	7.1	6.5	83.5	4.4	3.5	2.3		286.1	54.6
900	6.7	6.4	84.6	6.9	6.4	83.4	7.4	6.5	81.8	4.8	3.8	2.7		326.7	60.7
930	6.9	6.4	83.0	7.2	6.4	82.0	7.8	6.5	79.6	5.3	4.5	1.4		365.7	65.6
1000	7.0	6.4	82.9	7.4	6.4	81.1	8.1	6.5	78.6	5.9	4.8	2.1		409.1	69.7
1030	7.3	6.4	82.1	7.6	6.5	80.2	8.5	6.6	77.2	6.5	4.7	2.4		450.8	76.6
1100	7.4	6.4	81.1	7.8	6.4	79.1	8.7	6.6	76.2	7.0	5.5	2.9		490.3	78.7
1130	7.5	6.4	80.7	7.9	6.5	79.2	8.8	6.6	75.8	7.7	5.9	2.5		525.5	84.6
1200	7.8	6.5	79.5	8.2	6.5	78.0	9.3	6.7	75.0	8.7	6.7	2.4		543.6	83.6
1230	8.3	6.5	77.7	8.7	6.6	76.4	9.6	6.8	74.0	9.5	6.9	3.0		533.6	80.7
1300	8.5	6.6	77.7	9.0	6.7	75.8	10.1	6.9	72.8	10.6	6.8	2.9		610.0	96.1
1330	8.8	6.7	77.4	9.2	6.8	76.2	10.2	7.0	73.7	10.9	7.2	3.6		514.7	79.1
1400	9.9	6.9	74.5	10.4	7.0	72.8	11.5	7.2	69.8	12.0	8.2	3.1		619.4	92.4
1430	10.2	7.0	74.0	10.6	7.1	72.8	11.8	7.3	69.5	12.9	8.1	3.8		608.1	91.6
1500	10.3	7.2	75.0	10.8	7.2	73.1	11.9	7.4	69.9	13.7	8.6	3.3		544.4	82.8
1530															
1600															
1630															
1700															
1730															
1800															
1830															
1900															
1930															
2000															
2030															
2100															
2130															
2200															
2230															
2300															
2330															
Max	10.3	7.2	97.4	10.8	7.2	98.5	11.9	7.4	99.4	13.7	8.6	3.8		619.4	96.1
Min	4.0	6.0	74.0	4.0	6.1	72.8	3.9	6.1	69.5	2.7	3.2	1.4		18.7	0.0
Ave	6.3	6.4	86.8	6.5	6.4	86.5	6.8	6.5	85.9	5.8	5.1	2.8		268.0	45.4
Sum														15.0	2.5

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-30.1	-4.8		165.1	0.26	5.83	4.46	3.47	94	0.43	0.32	0.002	4.90	353.5	351.7 A
-41.8	-5.3		123.5	0.30	5.63	4.11	3.04	95	1.00	0.36	0.003	6.23	354.2	
-43.1	-5.6		94.9	0.30	5.63	4.23	3.18	96	0.60	0.33	0.004	6.01	353.5	351.7 A
-23.0	-4.7		69.2	0.27	5.23	3.93	2.94	101	0.59	0.31	0.006	5.14	352.7	
-1.4	-0.4		42.0		5.56	3.94	2.96	107	1.20	0.37	0.002	6.48	354.3	351.6 A
-13.3	-1.1		41.1		5.65	3.99	2.94	111	1.22	0.37	0.005	6.15	353.7	
-7.7	-1.0		41.1	0.11	5.76	4.04	3.02	111	1.26	0.38	0.003	6.66	353.5	351.4 A
-6.1	-1.1		47.4	0.02	5.07	3.61	2.64	110	1.18	0.33	0.004	5.42	353.4	
-4.0	-0.5		57.3	0.22	4.79	3.43	2.62	113	0.90	0.30	0.006	4.90	353.0	351.2
-26.7	-1.5		103.9	0.20	4.62	3.35	2.64	113	0.68	0.27	0.009	4.23	351.8	
-38.8	-4.8		148.4	0.21	4.18	3.07	2.20	112	1.13	0.27	0.012	4.67	352.1	350.9
-24.0	-3.2		196.7	0.23	4.65	3.47	2.54	109	0.77	0.28	0.007	4.91	351.9	
-2.1	-0.8		259.2	0.21	5.55	4.03	2.86	108	1.13	0.36	0.001	6.46	351.9	350.7
22.9	1.7		297.5	0.22	5.65	4.12	3.10	107	0.85	0.35	0.000	6.02	351.6	
54.0	4.6		205.4	0.20	6.10	4.34	3.31	111	0.98	0.39	-0.002	6.76	351.2	350.5
89.1	8.1		466.0	0.19	6.05	4.53	3.54	116	0.48	0.35	-0.006	6.41	351.1	
123.7	12.9		603.5	0.20	5.82	3.98	3.07	118	1.25	0.39	-0.008	7.22	350.7	350.5
161.8	19.0		701.0	0.19	5.69	4.09	3.24	115	0.80	0.35	-0.018	6.41	349.9	
202.6	23.1		804.9	0.19	6.10	4.62	3.39	109	0.82	0.38	-0.015	7.45	350.7	350.5
239.3	28.4		903.7	0.18	5.53	4.28	3.13	106	0.64	0.33	-0.020	7.61	349.7	
277.7	33.3		1002.0	0.17	5.47	4.40	3.23	101	0.19	0.28	-0.038	5.88	350.7	I
314.8	40.7		1090.8	0.17	5.74	4.60	3.53	102	0.24	0.30	-0.031	7.73	350.4	
346.7	48.8		1166.9	0.16	5.80	4.47	3.38	99	0.43	0.33	-0.033	7.93	350.7	I
378.5	54.3		1249.1	0.16	6.18	4.55	3.74	101	0.41	0.34	-0.044	7.64	350.6	
391.9	58.7		1286.9	0.15	5.89	4.41	3.56	102	0.39	0.33	-0.039	7.92	350.6	I
380.4	57.8		1273.1	0.15	5.33	4.20	3.08	108	0.24	0.28	-0.036	6.45	349.6	
444.7	66.1		1439.0	0.16	5.48	4.24	3.31	104	0.31	0.30	-0.044	8.20	350.2	I
360.9	56.2		1217.1	0.15	5.01	3.85	3.12	102	0.23	0.26	-0.052	7.53	349.0	
445.5	68.5		1456.8	0.15	5.01	4.19	3.13	103	0.09	0.24	-0.040	6.30	348.5	349.9 A
435.8	69.4		1431.5	0.15	5.02	4.04	3.00	98	0.32	0.27	-0.055	7.98	348.4	
385.3	64.0		1285.0	0.15	4.55	3.91	2.85	93	0.07	0.21	-0.080	5.73	346.9	349.8 A
														349.9 A
														349.8 A
														349.9 A
														349.9 A
														350.0 A
														350.2 A
														350.3 A
														350.5
445.5	69.4		1456.8	0.30	6.18	4.62	3.74	118	1.26	0.39	0.012	8.20	354.3	351.7
-43.1	-5.6		41.1	0.02	4.18	3.07	2.20	93	0.07	0.21	-0.080	4.23	346.9	349.8
154.6	22.0		621.6	0.19	5.44	4.08	3.09	106	0.67	0.32	-0.016	6.43	351.3	350.5
8.6	1.2													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	6.9	6.8	88.6				6.7	6.8	90.5	6.8	3.2			33.3	6.7
030	6.6	6.7	89.2				6.5	6.8	91.0	6.5	3.1			25.0	6.2
100	6.4	6.7	90.5				6.3	6.8	91.6	6.1	2.8			18.4	4.0
130	6.2	6.7	91.5				6.2	6.8	92.8	5.8	2.7			12.1	3.9
200	6.1	6.7	92.1				6.0	6.8	93.9	5.6	2.7			10.1	2.3
230	6.0	6.7	92.9				5.8	6.8	94.7	5.5	2.6			11.7	4.3
300	6.0	6.7	92.8				5.7	6.7	94.7	5.3	2.5			9.9	3.1
330	6.2	6.7	91.7				6.1	6.8	93.3	5.1	2.4			8.2	2.4
400	6.2	6.7	91.4				6.1	6.8	93.2	4.9	2.2			9.7	3.0
430	5.9	6.6	92.5				5.8	6.7	93.7	4.7	2.2			19.0	3.8
500	5.7	6.5	92.2				5.7	6.6	93.2	4.6	2.0			22.3	4.2
530	5.4	6.4	92.4				5.5	6.5	93.2	4.5	1.9			26.4	5.6
600	5.3	6.4	92.0				5.5	6.5	92.8	4.5	1.9			32.1	6.4
630	4.9	6.2	92.3				5.1	6.4	93.2	4.4	1.8			57.0	10.2
700	4.7	6.2	92.8				4.9	6.3	94.0	4.4	1.7			48.7	7.8
730	4.7	6.1	91.5				5.0	6.3	92.6	4.4	1.7			65.9	11.2
800	4.5	6.0	91.2				4.9	6.2	91.7	4.3	1.6			86.6	15.4
830	4.6	6.0	90.2				5.3	6.2	89.6	4.2	1.3			115.9	20.5
900	4.4	5.8	89.5				5.0	6.1	89.4	4.2	1.0			131.8	23.0
930	4.5	5.8	88.8				5.2	6.0	87.9	4.4	0.9			151.6	25.5
1000	4.4	5.8	88.5				5.3	6.0	87.4	4.6	0.8			187.5	29.7
1030	4.5	5.7	86.9				5.5	6.0	85.7	4.7	0.6			228.3	38.4
1100	4.5	5.5	83.3				6.0	5.9	81.5	4.8	0.1			371.0	63.8
1130	4.1	5.2	81.5				5.8	5.7	79.5	5.0	-0.5			511.0	87.4
1200	3.8	5.1	80.6				5.5	5.5	78.8	5.4	-1.1			465.0	77.8
1230	4.0	5.1	80.9				5.3	5.6	80.7	6.3	-0.7			312.3	51.9
1300	4.6	5.3	81.1				6.1	5.8	79.5	7.3	0.3			375.0	60.9
1330	4.8	5.3	79.2				6.4	5.8	77.7	7.4	-0.2			437.6	71.6
1400	5.1	5.3	78.3				6.3	5.7	77.7	7.7	-0.1			338.3	55.1
1430	6.1	5.5	75.2				7.6	5.9	73.3	8.1	-0.1			494.0	79.1
1500	6.1	5.4	74.1				7.9	5.9	71.8	8.0	-0.8			580.2	92.0
1530	6.1	5.4	74.6				8.0	5.9	71.8	8.6	-1.0			530.4	85.4
1600	7.1	5.7	73.5				8.5	6.2	72.7	9.6	0.1			402.9	63.6
1630	7.5	5.8	72.4				9.3	6.3	70.4	9.8	0.1			541.9	87.3
1700	7.5	5.7	71.8				9.0	6.2	70.6	9.9	0.0			465.7	76.8
1730	7.7	5.9	73.3				9.1	6.3	71.9	10.5	0.7			374.2	64.0
1800	8.0	6.1	73.9				9.1	6.5	73.5	11.0	1.5			308.7	51.3
1830	8.1	6.2	74.3				9.4	6.6	72.6	11.1	2.0			363.9	64.1
1900	7.6	6.1	76.4				8.7	6.5	75.4	11.0	2.2			268.2	46.4
1930	7.9	6.4	78.8				8.6	6.7	78.1	10.9	2.7			167.5	29.9
2000	8.0	6.4	77.5				9.1	6.7	75.6	10.6	2.8			330.3	66.6
2030	7.7	6.1	75.6				8.3	6.4	75.9	10.0	2.2			139.3	24.6
2100	8.0	6.5	78.6				8.5	6.7	79.0	10.2	2.9			106.1	19.9
2130	7.8	6.7	82.0				8.1	6.9	83.0	10.0	3.4			67.1	12.8
2200	7.8	6.7	83.0				8.0	6.9	83.6	9.7	3.6			38.7	7.2
2230	8.0	6.7	81.5				8.2	6.9	82.3	9.3	3.5			37.9	6.9
2300	7.9	6.6	80.5				7.9	6.8	82.3	8.7	3.4			15.1	2.9
2330	7.5	6.6	82.8				7.5	6.8	84.9	8.3	3.4			9.2	3.8
Max	8.1	6.8	92.9				9.4	6.9	94.7	11.1	3.6			580.2	92.0
Min	3.8	5.1	71.8				4.9	5.5	70.4	4.2	-1.1			8.2	2.3
Ave	6.1	6.1	83.9				6.8	6.4	83.8	7.1	1.5			195.1	33.1
Sum														16.9	2.9

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-0.7	-2.4			0.20										350.6
10.5	-1.3			0.25										
7.3	-0.4			0.22										350.7
6.0	-0.4			0.32										
4.7	-0.4			0.23										351.2 V
4.5	-0.5			0.36										
5.6	-1.1			0.31										350.8 D
7.2	0.4			0.29										
8.8	1.5			0.31										350.4
12.6	2.3			0.20										
14.6	2.9			0.19										350.4
19.6	3.7			0.21										
26.3	3.9			0.20										350.4
42.4	7.3			0.18										
28.4	5.4			0.16										350.3 A
51.3	6.4			0.17										
69.2	10.6			0.18										350.2 A
97.5	16.3			0.18										
107.0	18.8			0.17										350.1 A
115.9	22.5			0.17										
149.9	26.1			0.16										350.2 V
174.9	31.4			0.17										
272.2	47.0			0.17										350.3 A
366.2	65.2			0.17										
333.1	68.7			0.17										350.5
238.7	52.8			0.17										
290.5	47.8			0.16										350.8
336.2	63.0			0.16										
258.2	51.4			0.16										350.6
357.2	60.8			0.16										
411.1	79.3			0.16										350.8
394.7	76.1			0.16										
287.5	52.4			0.16										351.4
372.9	62.7			0.16										
331.8	60.4			0.16										351.6
277.6	48.1			0.17										
218.9	40.5			0.17										352.0 D
267.1	33.6			0.18										
183.8	28.7			0.17										351.7
129.0	18.5			0.18										
258.2	30.4			0.20										351.7
98.8	22.5			0.18										
80.3	13.2			0.19										351.9 V
48.4	8.0			0.19										
30.4	2.8			0.19										352.3 V
31.1	3.4			0.18										
17.8	1.7			0.19										352.3 V
12.7	-0.1			0.41										
411.1	79.3			0.41										352.3
-0.7	-2.4			0.16										350.1
143.1	24.8			0.20										351.0
12.4	2.1													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	7.2	7.0	89.5				7.2	7.1	90.8	8.1	3.4			8.1	2.1
030	7.4	7.0	88.4				7.4	7.1	90.4	7.7	3.4			8.1	2.5
100	7.6	7.0	87.5				7.5	7.1	89.7	7.4	3.2			7.0	2.0
130	7.6	7.0	87.1				7.5	7.1	89.5	7.0	3.1			4.2	1.2
200	7.6	7.0	86.9				7.4	7.1	89.7	6.8	2.9			2.6	1.9
230	7.3	7.0	88.9				7.2	7.1	90.7	6.6	2.8			2.7	2.3
300	7.5	7.1	89.5				7.3	7.1	90.5	6.5	2.8				
330	7.8	7.2	88.6				7.5	7.2	90.4	6.3	2.7			4.2	1.9
400	7.2	7.0	90.0				7.1	7.1	91.3	6.1	2.7			19.1	6.3
430	6.8	6.9	91.0				6.5	7.0	93.4	6.1	2.8			28.4	6.9
500	7.0	7.0	90.9				6.9	7.1	92.6	6.0	2.7			23.4	4.3
530	7.4	7.1	89.5				7.3	7.2	91.0	5.7	2.4			19.0	4.3
600	7.6	7.1	88.8				7.6	7.2	90.2	5.4	2.1			21.3	3.7
630	8.1	7.3	87.4				8.1	7.4	88.9	5.3	1.9			35.7	6.5
700	8.3	7.4	88.3				8.2	7.5	89.5	5.3	1.9			43.9	7.5
730	8.2	7.5	89.8				7.6	7.4	91.9	5.4	2.0			40.6	6.4
800	8.8	7.7	89.0				8.6	7.7	89.5	5.4	2.1			62.8	9.7
830	9.4	7.8	86.4				9.6	7.9	86.5	5.0	1.5			109.2	17.1
900	10.5	7.4	76.3				10.6	7.6	78.7	5.0	0.9			129.1	20.2
930	11.1	7.0	69.5				11.1	7.2	72.1	5.2	0.8			152.1	24.4
1000	11.1	7.1	70.3				11.3	7.4	72.6	5.5	0.7			175.6	28.7
1030	11.2	7.4	73.4				11.6	7.7	73.9	5.7	0.7			227.0	37.6
1100	11.1	7.2	71.8				11.7	7.5	71.6	6.0	0.4			251.7	40.5
1130	11.2	5.9	58.5				12.3	6.4	59.4	5.4	-0.7			432.2	72.8
1200	11.0	4.9	48.4				12.2	5.5	51.1	5.3	-1.9			428.8	70.7
1230	13.3	5.5	47.7				14.5	6.1	49.4	7.5	-0.3			495.4	79.1
1300	13.9	5.1	43.0				15.5	6.0	45.1	8.1	-0.7			579.1	94.9
1330	14.3	5.1	42.0				15.9	6.1	45.2	9.0	-0.6			568.8	93.0
1400	14.6	5.1	40.8				15.8	5.8	43.1	10.1	0.1			481.6	77.1
1430	15.6	5.4	41.1				16.8	6.1	42.7	10.5	0.3			500.0	78.5
1500	16.3	6.4	46.3				17.7	7.3	48.1	10.6	-0.2			642.6	104.3
1530	13.3	6.5	56.4				14.5	7.0	56.4	10.8	-0.4			482.8	77.5
1600	14.9	6.8	53.5				16.3	7.4	53.1	11.5	0.2			618.7	100.0
1630	15.7	7.4	55.5				16.5	7.8	55.5	12.8	1.9			388.5	66.0
1700	16.8	7.7	53.9				17.5	8.1	54.3	12.6	2.1			370.4	63.9
1730	17.7	6.8	45.5				18.4	7.4	47.1	11.9	1.3			381.2	64.2
1800	17.1	6.6	45.4				17.7	7.2	47.5	12.5	2.0			286.5	50.4
1830	16.2	6.8	49.0				16.3	7.2	52.3	13.4	3.6			161.1	29.5
1900	14.8	7.6	59.9				14.9	7.8	61.5	13.5	4.4			119.0	21.3
1930	13.7	8.2	69.4				14.1	8.3	68.4	13.0	4.7			214.8	39.5
2000	14.5	7.2	58.0				15.1	7.6	59.0	11.9	3.7			292.1	59.0
2030	13.6	7.0	59.1				14.2	7.4	60.6	11.2	3.0			310.3	69.0
2100	10.1	7.2	76.2				10.7	7.4	75.4	11.9	4.1			257.2	62.7
2130	8.4	7.0	82.7				8.8	7.2	82.4	12.5	5.5			174.7	45.9
2200	7.8	6.8	84.0				8.2	7.0	83.2	11.9	5.6			144.6	37.1
2230	6.1	6.4	88.3				6.3	6.6	89.2	11.2	5.7			66.2	16.1
2300	5.1	6.4	94.2				5.1	6.6	96.0	10.6	5.7			30.0	6.5
2330	4.4	6.2	95.8				4.5	6.4	97.3	9.7	5.3			31.9	6.9
Max	17.7	8.2	95.8				18.4	8.3	97.3	13.5	5.7			642.6	104.3
Min	4.4	4.9	40.8				4.5	5.5	42.7	5.0	-1.9			2.6	1.2
Ave	10.7	6.8	72.0				11.1	7.1	73.3	8.5	2.2			209.2	36.7
Sum														18.1	3.2

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
12.6	-1.0			0.26										352.3 V
14.6	0.5			0.31										
13.9	1.2			0.28										353.5 V
14.4	2.5			0.30										
14.0	2.6			0.73										352.9 V
13.3	2.4													
9.6	2.1													356.6 V
7.9	2.4			0.45										
14.3	2.5			0.33										351.7 V
7.1	1.1			0.24										
19.3	2.0			0.19										354.2 V
27.0	6.1			0.23										
27.9	7.8			0.17										359.4 V
31.2	10.2			0.18										
18.6	9.4			0.17										360.8 V
-0.8	3.4			0.16										
33.6	6.2			0.15										C
84.6	20.0			0.16										
99.4	29.7			0.16										C
118.7	31.4			0.16										
134.2	34.3			0.16										C
173.0	39.2			0.17										
176.8	47.1			0.16										C
320.7	63.6			0.17										
305.4	73.5			0.16										C
345.1	76.5			0.16										
398.5	92.5			0.16										C
392.2	87.9			0.16										
320.0	70.8			0.16										C
330.7	73.6			0.16										
441.5	88.4			0.16										351.5 V
328.4	67.2			0.16										
428.9	84.4			0.16										349.6 V
251.8	50.8			0.17										
272.5	52.0			0.17										348.3 V
280.9	61.2			0.17										
204.6	47.0			0.18										347.4 V
110.5	25.3			0.18										
89.6	16.0			0.18										353.1 V
142.7	16.4			0.18										
196.4	25.4			0.20										349.1 V
234.3	26.8			0.22										
176.3	14.5			0.24										350.9 D
95.3	-4.9			0.26										
71.2	-8.3			0.26										349.3 V
42.9	-11.1			0.24										
28.4	-13.9			0.22										347.0 D
30.1	-13.2			0.22										
441.5	92.5			0.73										360.8
-0.8	-13.9			0.15										347.0
143.8	27.6			0.21										352.2
12.4	2.4													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	3.7	6.0	97.1				3.8	6.2	99.2	8.9	5.0			16.9	4.0
030	3.2	5.9	97.3				3.3	6.0	99.5	8.0	4.6			15.8	5.2
100	2.8	5.8	98.5				2.9	5.9	100.0	7.4	4.3			12.2	3.5
130	2.3	5.6	99.8				2.4	5.8	100.0	6.9	4.1			7.4	1.8
200	2.2	5.6	99.3				2.3	5.8	100.0	6.4	3.8			4.5	2.0
230	2.0	5.5	100.0				2.1	5.8	100.0	5.9	3.5			4.8	2.8
300	1.8	5.5	100.0				1.9	5.7	100.0	5.4	3.3			4.3	0.9
330	1.7	5.4	100.0				1.8	5.6	100.0	5.1	3.1			4.6	1.0
400	1.6	5.4	100.0				1.7	5.6	100.0	4.8	3.0			6.0	1.3
430	1.5	5.4	100.0				1.6	5.6	100.0	4.5	2.9			9.1	2.7
500	1.4	5.4	100.0				1.5	5.6	100.0	4.4	2.7			12.0	2.8
530	1.3	5.3	100.0				1.5	5.6	100.0	4.1	2.6			18.4	3.6
600	1.3	5.3	100.0				1.5	5.6	100.0	3.9	2.4			23.4	5.2
630	1.2	5.3	100.0				1.5	5.6	100.0	3.8	2.3			31.1	5.8
700	1.2	5.3	100.0				1.5	5.6	100.0	3.7	2.2			39.5	7.0
730	1.2	5.3	100.0				1.5	5.5	100.0	3.7	2.0			50.4	8.6
800	1.2	5.3	100.0				1.5	5.6	100.0	3.6	1.9			61.5	10.7
830	1.1	5.3	100.0				1.6	5.6	100.0	3.5	1.8			82.5	14.0
900	1.2	5.3	100.0				1.6	5.6	100.0	3.5	1.7			88.0	15.2
930	1.2	5.3	100.0				1.7	5.6	100.0	3.6	1.5			95.7	16.4
1000	1.2	5.3	100.0				1.6	5.6	100.0	3.6	1.6			88.8	14.4
1030	1.3	5.4	100.0				1.8	5.6	100.0	3.7	1.6			109.5	17.2
1100	1.3	5.3	100.0				1.8	5.6	100.0	3.5	1.4			114.1	19.3
1130	1.3	5.4	100.0				1.9	5.7	100.0	3.6	1.3			131.4	21.1
1200	1.5	5.4	100.0				2.1	5.7	100.0	3.6	1.1			170.1	27.5
1230	1.5	5.4	100.0				2.2	5.8	100.0	3.6	0.8			208.8	34.4
1300	1.4	5.4	100.0				2.2	5.7	100.0	3.8	0.9			205.0	34.3
1330	1.6	5.4	100.0				2.3	5.8	100.0	4.0	0.9			223.5	39.0
1400	1.5	5.4	100.0				2.1	5.8	100.0	4.1	0.8			218.4	38.2
1430	1.6	5.4	100.0				2.2	5.8	100.0	4.3	1.0			214.3	36.9
1500	1.7	5.5	100.0				2.4	5.8	100.0	4.3	0.9			226.0	38.8
1530	1.9	5.5	100.0				2.6	5.9	100.0	4.2	0.7			264.3	46.1
1600	1.9	5.5	100.0				2.7	5.9	100.0	4.2	0.5			243.7	42.1
1630	2.0	5.5	100.0				2.7	5.9	100.0	4.4	0.6			239.5	42.6
1700	2.0	5.6	100.0				2.7	5.9	100.0	4.6	0.8			211.8	37.9
1730	2.7	5.7	99.0				3.3	6.0	99.8	4.7	1.0			226.2	37.5
1800	2.8	5.8	99.1				3.4	6.1	99.5	4.6	0.9			218.2	38.3
1830	3.3	5.9	97.8				3.9	6.2	98.3	4.6	1.0			221.1	38.6
1900	3.0	5.8	98.5				3.4	6.1	99.5	4.6	0.9			151.9	27.6
1930	3.5	6.0	97.5				3.9	6.2	98.9	4.8	1.2			136.4	24.1
2000	3.5	5.9	97.2				3.8	6.2	99.0	4.8	1.3			125.0	22.8
2030	3.4	5.9	97.3				3.6	6.2	99.5	4.7	1.4			105.4	20.0
2100	3.3	5.9	97.0				3.6	6.1	99.4	4.8	1.6			99.1	17.9
2130	3.2	5.8	97.2				3.4	6.1	100.0	4.6	1.6			71.9	13.3
2200	2.9	5.7	97.6				3.1	6.0	100.0	4.5	1.8			60.8	11.4
2230	2.8	5.7	97.9				3.0	5.9	100.0	4.3	1.7			56.7	10.7
2300	2.6	5.7	98.4				2.8	5.9	100.0	4.1	1.7			43.4	10.1
2330	2.2	5.6	99.0				2.4	5.8	100.0	3.9	1.8			35.8	8.2
Max	3.7	6.0	100.0				3.9	6.2	100.0	8.9	5.0			264.3	46.1
Min	1.1	5.3	97.0				1.5	5.5	98.3	3.5	0.5			4.3	0.9
Ave	2.0	5.5	99.3				2.4	5.8	99.8	4.6	1.9			104.4	18.4
Sum														9.0	1.6

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
19.2	-14.6			0.24										345.8 D
18.3	-14.6			0.33										
13.7	-14.5			0.29										345.4 A
9.6	-15.4			0.24										
8.3	-15.0			0.46										345.6 A
8.2	-14.0			0.59										
8.8	-13.2			0.22										345.7 A
9.4	-12.2			0.23										
10.3	-11.4			0.22										346.0 D
13.5	-10.3			0.30										
16.1	-9.4			0.24										346.4 D
22.0	-8.2			0.19										
26.1	-7.0			0.22										346.8 A
31.6	-5.2			0.19										
39.9	-3.6			0.18										347.0 A
49.5	-1.4			0.17										
59.7	0.7			0.17										I
77.4	3.5			0.17										
83.2	5.0			0.17										346.9 D
89.8	6.6			0.17										
83.9	5.8			0.16										346.5 A
102.1	7.1			0.16										
105.9	10.2			0.17										346.5 A
121.5	11.3			0.16										
155.2	18.8			0.16										346.8 D
188.8	25.0			0.16										
184.8	24.4			0.17										349.5 V
201.2	25.1			0.17										
194.8	23.9			0.17										351.0 D
190.4	21.8			0.17										
201.1	21.6			0.17										351.8
232.4	26.1			0.17										
212.3	27.1			0.17										351.7 A
208.6	25.5			0.18										
186.1	20.2			0.18										350.6
200.2	21.5			0.17										
191.9	22.7			0.18										350.4
194.3	21.7			0.17										
134.0	16.8			0.18										351.0 D
124.1	13.3			0.18										
114.0	12.3			0.18										351.7 D
96.9	9.5			0.19										
93.2	7.1			0.18										350.3 V
68.7	4.8			0.18										
59.7	1.6			0.19										349.2 D
55.5	1.1			0.19										
43.3	0.0			0.23										350.0 D
35.9	-1.6			0.23										
232.4	27.1			0.59										351.8
8.2	-15.4			0.16										345.4
95.7	5.6			0.21										348.4
8.3	0.5													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	2.0	5.5	99.1				2.1	5.7	100.0	3.7	1.7			25.0	6.0
030	1.7	5.5	100.0				1.8	5.6	100.0	3.6	1.7			17.5	4.8
100	1.8	5.4	99.0				1.9	5.6	100.0	3.3	1.7			11.1	3.3
130	1.8	5.5	100.0				1.9	5.6	100.0	3.1	1.5			9.1	2.9
200	1.7	5.4	100.0				1.8	5.6	100.0	2.8	1.4			8.2	2.6
230	1.4	5.3	100.0				1.5	5.6	100.0	2.7	1.4			7.6	2.6
300	1.2	5.3	100.0				1.3	5.5	100.0	2.6	1.3			8.8	3.3
330	0.9	5.2	100.0				1.0	5.4	100.0	2.4	1.3			8.8	3.3
400	0.6	5.1	100.0				0.8	5.4	100.0	2.3	1.3			10.8	3.6
430	0.5	5.1	100.0				0.6	5.3	100.0	2.2	1.2			14.3	3.7
500	0.3	5.1	100.0				0.6	5.3	100.0	2.0	1.1			19.1	4.7
530	0.3	5.0	100.0				0.6	5.3	100.0	1.8	1.0			25.8	5.4
600	0.4	5.1	100.0				0.7	5.3	100.0	1.6	0.8			34.8	6.8
630	0.5	5.1	100.0				0.8	5.4	100.0	1.6	0.7			48.4	9.3
700	0.4	5.0	100.0				0.8	5.3	100.0	1.6	0.6			66.0	11.9
730	0.4	5.0	100.0				0.9	5.3	100.0	1.6	0.4			77.5	13.3
800	0.5	5.0	100.0				1.1	5.4	100.0	1.6	0.4			102.0	17.6
830	0.6	5.0	99.7				1.1	5.4	100.0	1.6	0.2			99.8	17.0
900	0.8	5.1	99.3				1.4	5.4	100.0	1.7	0.3			110.7	19.1
930	0.8	5.1	99.2				1.4	5.5	100.0	1.8	0.1			146.5	25.5
1000	0.8	5.0	98.3				1.6	5.4	100.0	1.9	0.0			187.2	33.2
1030															
1100															
1130															
1200															
1230															
1300															
1330															
1400															
1430															
1500	2.1	4.9	87.7				3.9	5.2	83.6	5.4	0.0			458.1	77.9
1530	2.1	4.9	87.6				4.0	5.3	83.5	5.6	-0.1			472.6	80.8
1600	2.7	4.9	85.3				4.6	5.4	80.9	6.1	0.3			553.2	94.4
1630	2.8	5.0	85.6				4.7	5.4	81.1	6.3	0.6			506.6	87.4
1700	2.9	5.1	87.0				4.6	5.5	82.9	6.6	0.7			456.0	81.3
1730	3.4	5.2	86.0				5.0	5.5	82.1	7.0	1.5			416.7	73.6
1800	3.4	5.2	85.8				4.8	5.5	82.7	6.7	1.5			363.0	66.1
1830	4.1	5.3	83.0				5.4	5.6	80.5	7.0	2.1			337.4	62.8
1900	4.3	5.4	84.3				5.3	5.7	82.8	7.2	2.5			266.9	49.0
1930	4.4	5.5	84.1				5.3	5.7	82.8	7.1	2.8			226.7	41.4
2000	4.1	5.5	86.3				4.9	5.7	85.4	6.9	2.9			169.5	31.1
2030	4.0	5.5	87.0				4.7	5.8	87.0	6.7	3.1			158.8	28.4
2100	3.7	5.5	89.1				4.2	5.7	89.3	6.3	2.9			111.4	21.5
2130	3.4	5.5	89.6				3.9	5.7	90.4	5.9	2.8			98.1	17.1
2200	3.3	5.5	91.1				3.7	5.7	91.8	5.7	2.9			90.0	18.2
2230	2.9	5.5	94.3				3.2	5.7	95.5	5.3	2.9			66.5	12.7
2300	2.8	5.5	93.6				3.0	5.7	95.5	5.1	2.9			68.6	16.8
2330	2.9	5.6	95.4				3.1	5.8	97.1	4.8	2.8			49.8	9.9
Max	4.4	5.6	100.0				5.4	5.8	100.0	7.2	3.1			553.2	94.4
Min	0.3	4.9	83.0				0.6	5.2	80.5	1.6	-0.1			7.6	2.6
Ave	2.0	5.2	94.3				2.7	5.5	93.7	4.1	1.4			151.5	27.4
Sum														13.1	2.4

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
27.0	-3.4			0.24										350.3
21.4	-4.8			0.28										
16.0	-5.6			0.30										350.4
14.7	-4.8			0.32										
12.9	-4.4			0.32										350.0 D
11.9	-4.6			0.33										
12.3	-5.1			0.38										349.7 D
12.9	-5.4			0.38										
13.6	-6.0			0.33										349.2 A
17.2	-5.7			0.26										
22.6	-4.2			0.25										349.2 A
27.1	-2.8			0.21										
34.3	-0.9			0.19										349.1 A
45.7	1.5			0.19										
59.3	4.3			0.18										349.1 A
68.6	7.0			0.17										
86.7	10.7			0.17										349.1 A
86.3	12.1			0.17										
95.4	13.5			0.17										349.2 A
124.2	15.6			0.17										
153.4	20.7			0.18										349.2 A
														349.1 A
														349.3 A
														349.2 A
														349.1 A
334.0	44.9			0.17										349.0 A
348.8	48.3			0.17										
411.2	48.7			0.17										349.1 A
381.9	46.4			0.17										
336.5	40.1			0.18										349.4 D
303.2	30.4			0.18										
257.7	25.5			0.18										349.8
253.9	21.6			0.19										
199.9	17.9			0.18										349.7
173.6	14.1			0.18										
131.0	9.9			0.18										349.7
124.2	6.2			0.18										
87.8	3.5			0.19										349.7
76.1	0.5			0.17										
68.4	-1.2			0.20										349.6
47.3	-3.2			0.19										
25.2	-6.8			0.25										350.0
28.6	-8.3			0.20										
411.2	48.7			0.38										350.4
11.9	-8.3			0.17										349.0
116.7	9.4			0.22										349.5
10.1	0.8													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	2.7	5.5	95.0				2.7	5.7	97.6	4.4	2.6			32.7	8.5
030	2.4	5.6	97.8				2.4	5.7	100.0	4.0	2.5			19.9	5.1
100	2.2	5.5	98.3				2.2	5.7	100.0	3.7	2.3			17.9	5.3
130	2.6	5.6	97.2				2.7	5.8	99.8	3.3	2.1			9.3	1.6
200	2.5	5.6	97.9				2.6	5.8	100.0	2.9	1.6			8.2	3.5
230	2.4	5.6	97.9				2.5	5.8	100.0	2.8	1.6			7.1	3.5
300	2.4	5.6	98.2				2.5	5.8	100.0	2.8	1.6			6.8	3.5
330	2.6	5.6	98.0				2.6	5.8	100.0	2.6	1.5			6.9	2.0
400	2.9	5.7	96.1				2.9	5.9	99.6	2.5	1.3			8.6	2.0
430	3.0	5.5	93.8				2.9	5.7	97.9	2.5	1.3			18.0	5.3
500	3.1	5.6	93.4				2.9	5.8	98.0	2.5	1.5			25.6	6.4
530	3.6	5.6	90.6				3.5	5.8	95.7	2.3	1.2			32.0	7.1
600	3.7	5.6	90.4				3.6	5.9	95.0	2.1	0.9			47.0	9.6
630	3.8	5.6	90.3				3.9	5.9	94.3	2.1	0.8			55.3	10.9
700	4.0	5.8	91.4				4.2	6.0	93.7	2.2	0.6			62.4	12.1
730	4.3	5.9	90.7				4.6	6.1	92.5	2.3	0.5			72.9	13.8
800	4.8	5.9	88.0				5.2	6.1	89.3	2.3	0.4			90.1	16.1
830	5.0	6.0	87.7				5.5	6.2	88.1	2.5	0.3			106.7	19.1
900	5.1	6.0	87.8				5.6	6.2	88.1	2.8	0.3			133.4	24.4
930	5.1	5.9	87.3				5.9	6.2	86.3	3.0	0.3			180.5	34.0
1000	5.3	6.2	89.0				6.0	6.4	88.0	3.4	0.5			169.8	30.2
1030	6.4	6.1	81.8				7.2	6.3	80.9	3.4	0.1			221.0	38.5
1100	7.1	5.7	73.4				8.4	6.1	71.8	3.3	-0.6			410.3	72.9
1130	7.5	5.5	69.2				9.0	5.9	66.9	3.6	-0.9			489.0	85.6
1200	8.0	5.7	69.2				9.4	6.0	66.7	4.5	-0.8			480.6	83.0
1230	8.2	5.7	67.9				9.9	6.0	65.2	5.2	-0.8			539.6	91.5
1300	9.0	5.6	63.2				10.6	6.0	61.8	5.9	-0.8			544.3	90.6
1330	9.5	5.5	61.2				11.0	6.0	60.0	6.6	-0.6			518.1	86.4
1400	10.4	5.7	59.4				12.0	6.1	57.7	7.5	-0.1			620.1	103.9
1430	10.4	5.6	58.7				12.0	6.1	57.2	8.0	0.0			607.5	99.9
1500	10.8	5.7	57.9				12.4	6.1	56.3	8.6	0.3			619.0	99.1
1530	11.1	5.6	55.3				12.7	6.1	55.0	8.8	0.3			617.1	97.5
1600	11.2	5.8	56.8				12.8	6.2	55.6	9.0	0.5			603.1	97.8
1630	11.8	6.0	57.5				13.3	6.5	55.9	9.8	1.3			582.7	96.1
1700	11.5	6.4	62.6				12.9	6.8	60.3	10.0	1.8			554.3	94.4
1730	11.0	7.0	70.5				12.1	7.3	67.7	10.1	2.4			518.4	91.7
1800	11.5	7.2	69.9				12.6	7.4	66.9	10.0	2.8			475.3	86.2
1830	11.4	7.2	70.0				12.5	7.4	67.2	9.8	3.0			442.5	84.0
1900	10.7	7.1	72.6				11.6	7.2	69.9	9.7	3.3			382.8	75.8
1930	10.5	7.1	73.2				11.5	7.2	70.2	9.5	3.4			383.5	76.4
2000	9.9	7.1	75.8				10.4	7.2	74.8	9.5	3.7			229.4	49.1
2030	9.9	7.0	75.5				10.5	7.1	73.6	9.4	3.9			260.9	59.3
2100	9.6	7.0	76.4				10.1	7.0	74.6	8.9	3.9			223.3	56.2
2130	9.4	7.0	77.5				9.7	7.0	76.5	8.6	4.0			182.2	47.9
2200	9.0	7.0	79.5				9.1	7.1	79.8	8.3	4.1			130.7	36.4
2230	8.5	7.1	83.1				8.4	7.1	83.6	8.1	4.3			104.0	31.1
2300	8.1	6.9	83.7				7.9	6.9	84.8	7.9	4.3			73.0	22.4
2330	7.3	6.7	85.8				7.0	6.8	87.8	7.4	4.2			46.1	13.2
Max	11.8	7.2	98.3				13.3	7.4	100.0	10.1	4.3			620.1	103.9
Min	2.2	5.5	55.3				2.2	5.7	55.0	2.1	-0.9			6.8	1.6
Ave	6.9	6.1	80.1				7.6	6.3	80.3	5.6	1.5			249.4	45.6
Sum														21.5	3.9

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
7.9	-9.0			0.26										350.1 A
2.2	-9.0			0.26										
-18.3	-11.8			0.29										350.0
10.0	-8.7			0.17										
12.0	-3.8			0.43										350.2 A
8.9	-3.6			0.50										
7.5	-4.2			0.51										350.3 A
10.7	-2.7			0.29										
10.8	-1.3			0.23										350.6 A
-4.8	-2.9			0.29										
-0.8	-5.0			0.25										350.4 A
17.7	-0.8			0.22										
26.7	2.9			0.20										350.1 D
44.5	7.1			0.20										
55.4	10.9			0.19										349.7 D
64.6	13.5			0.19										
78.2	17.0			0.18										349.4 D
91.3	18.4			0.18										
111.6	19.8			0.18										348.9 A
149.1	24.8			0.19										
142.6	24.0			0.18										348.6 A
181.4	29.1			0.17										
290.4	44.2			0.18										348.8 A
324.3	59.8			0.18										
333.1	57.1			0.17										349.0 A
365.2	67.5			0.17										
364.3	70.6			0.17										349.5
335.2	67.7			0.17										
416.8	65.2			0.17										349.7
394.3	66.4			0.16										
402.9	64.5			0.16										349.6
399.0	62.6			0.16										
388.1	58.9			0.16										349.7 A
380.1	49.5			0.16										
360.9	45.5			0.17										349.9 A
349.3	30.3			0.18										
315.7	24.5			0.18										349.9 A
289.2	20.1			0.19										
247.4	15.4			0.20										350.0 A
258.9	20.6			0.20										
126.0	9.9			0.21										350.5 A
155.8	7.6			0.23										
118.5	2.8			0.25										350.4 A
84.4	-1.1			0.26										
39.4	-3.3			0.28										350.2 D
18.0	-5.1			0.30										
-4.8	-6.5			0.31										349.8 A
-20.9	-8.2			0.29										
416.8	70.6			0.51										350.6
-20.9	-11.8			0.16										348.6
161.3	20.6			0.23										349.8
13.9	1.8													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	6.2	6.6	89.5				5.8	6.6	92.4	7.2	4.3			25.6	5.6
030	5.3	6.4	92.9				4.8	6.4	95.9	6.7	4.2			14.5	4.6
100	5.3	6.4	92.7				5.1	6.5	95.5	6.0	3.8			7.9	0.9
130	5.5	6.4	91.5				5.4	6.5	94.1	5.4	3.2			2.1	1.6
200	5.3	6.4	91.8				5.3	6.5	94.0	5.0	2.8			0.6	0.0
230	5.5	6.3	90.5				5.4	6.5	93.3	4.8	2.6			0.1	0.0
300	5.6	6.4	90.4				5.6	6.5	92.7	4.6	2.4			0.0	0.0
330	5.7	6.4	90.5				5.7	6.6	93.2	4.5	2.3			0.2	0.0
400	5.8	6.5	91.1				5.7	6.7	94.0	4.5	2.3			1.2	0.0
430	5.9	6.6	92.4				5.8	6.7	94.0	4.4	2.1			3.7	2.0
500	6.0	6.7	91.9				5.9	6.8	94.6	4.3	2.0			4.3	1.7
530	6.1	6.7	92.5				6.0	6.8	94.6	4.2	1.9			6.8	2.0
600	6.2	6.8	92.2				6.2	6.9	93.7	4.2	1.9			10.8	2.9
630	6.7	6.9	91.6				6.6	7.0	93.3	4.1	1.7			19.9	3.9
700	6.9	7.0	91.0				6.8	7.1	93.0	4.0	1.5			15.2	3.3
730	6.6	6.9	91.5				6.6	7.0	92.9	4.1	1.5			22.4	3.9
800	5.8	6.7	93.3				5.9	6.8	94.8	4.3	1.6			26.2	5.1
830	5.8	6.6	92.4				5.9	6.8	94.2	4.4	1.7			36.5	6.8
900	3.9	6.1	96.2				4.1	6.2	98.0	4.6	2.0			36.9	8.0
930	3.6	5.9	95.4				3.8	6.1	97.8	4.9	2.4			46.2	8.0
1000	3.3	5.8	96.2				3.4	6.0	99.0	4.7	2.4			41.4	7.2
1030	2.8	5.7	97.2				3.0	5.9	100.0	4.5	2.4			56.0	9.0
1100	2.5	5.6	97.8				2.7	5.8	100.0	4.3	2.3			63.1	9.9
1130	2.2	5.5	98.8				2.5	5.8	100.0	4.0	2.1			70.4	11.3
1200	2.0	5.4	96.9				2.3	5.6	99.7	3.8	1.9			88.7	13.8
1230	1.9	5.3	95.5				2.4	5.6	98.8	3.5	1.6			188.3	28.7
1300	1.3	5.1	96.7				1.9	5.5	99.1	3.3	1.1			185.2	29.1
1330	1.1	5.1	98.4				1.6	5.5	100.0	3.6	1.3			208.3	33.8
1400	0.5	5.0	100.0				1.3	5.4	100.0	3.6	1.1			246.7	40.7
1430	0.2	5.0	100.0				1.3	5.4	100.0	3.7	1.0			299.0	51.6
1500	-0.1	4.7	98.6				1.1	5.2	99.3	3.6	0.6			354.1	62.9
1530	-0.1	4.6	96.0				1.3	5.1	97.0	3.8	0.4			421.4	73.2
1600	-0.3	4.6	96.8				0.9	5.0	97.5	4.0	0.2			351.0	63.2
1630	-0.1	4.6	95.0				1.1	5.0	96.2	4.4	0.5			339.6	61.2
1700	0.0	4.6	95.1				1.2	5.0	96.1	4.7	0.7			327.0	56.8
1730	0.2	4.6	93.9				1.4	5.0	94.9	5.0	0.8			310.8	56.0
1800	0.4	4.6	93.4				1.5	5.1	94.9	5.1	1.0			273.8	48.1
1830	0.3	4.6	93.7				1.3	5.0	95.0	5.0	1.1			242.5	44.4
1900	0.5	4.6	92.7				1.4	5.0	92.9	5.0	1.2			225.2	39.7
1930	0.6	4.6	90.8				1.6	5.0	92.7	5.0	1.3			232.1	43.7
2000	0.4	4.6	92.3				1.2	5.0	94.8	4.9	1.4			163.2	29.8
2030	0.6	4.7	92.5				1.2	5.0	96.3	4.9	1.7			112.3	20.7
2100	0.7	4.7	93.1				1.3	5.0	94.9	4.7	1.7			110.9	20.8
2130	0.7	4.7	93.3				1.3	5.0	94.7	4.5	1.7			89.7	16.9
2200	0.5	4.9	97.3				1.1	5.0	96.3	4.3	1.7			62.2	12.3
2230	0.4	5.1	100.0				0.9	5.0	98.3	4.1	1.8			47.6	10.2
2300	0.3	5.1	100.0				0.7	5.1	100.0	3.9	1.8			32.7	6.4
2330	0.3	5.1	100.0				0.6	5.1	100.0	3.8	1.9			23.0	5.0
Max	6.9	7.0	100.0				6.8	7.1	100.0	7.2	4.3			421.4	73.2
Min	-0.3	4.6	89.5				0.6	5.0	92.4	3.3	0.2			0.0	0.0
Ave	2.9	5.6	94.4				3.2	5.8	96.1	4.5	1.8			113.5	20.1
Sum														9.8	1.7

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-31.6	-11.9			0.22										350.0 A
-19.5	-13.5			0.31										
-6.8	-9.0			0.12										350.6 D
9.3	-3.6													
9.2	-1.0													351.3 V
10.7	0.5													
12.1	1.5													352.4 V
9.6	2.2													
9.8	2.6													353.7 V
10.4	3.0													
10.6	3.4			0.40										350.7 V
13.2	4.2			0.30										
18.0	5.6			0.27										349.1 A
24.5	8.5			0.20										
21.2	9.9			0.22										349.0 A
26.3	9.5			0.17										
30.4	8.8			0.20										349.1 V
39.3	9.6			0.18										
38.6	5.2			0.22										349.7 D
52.4	2.7			0.17										
43.9	2.0			0.17										347.9 V
58.5	0.5			0.16										
64.5	1.3			0.16										347.4 D
70.2	2.9			0.16										
87.7	3.7			0.16										349.0 V
178.3	12.1			0.15										
169.8	16.8			0.16										350.3 D
190.0	13.6			0.16										
217.8	20.8			0.17										350.6 D
259.6	25.7			0.17										
298.6	33.2			0.18										351.3 A
345.1	39.2			0.17										
286.3	36.2			0.18										351.3 A
275.5	31.0			0.18										
263.4	29.7			0.17										351.4 A
251.5	27.8			0.18										
221.6	21.4			0.18										351.4 A
195.6	19.7			0.18										
175.2	15.6			0.18										351.3 A
185.1	16.3			0.19										
127.5	9.1			0.18										351.2 A
90.6	4.8			0.18										
89.1	3.7			0.19										351.1 A
71.4	2.7			0.19										
48.4	0.7			0.20										351.1 A
37.0	-2.0			0.21										
26.2	-3.8			0.20										351.1 A
19.7	-5.9			0.22										
345.1	39.2			0.40										353.7
-31.6	-13.5			0.12										347.4
96.6	8.7			0.19										350.5
8.3	0.8													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	0.1	5.0	100.0				0.4	5.0	100.0	3.5	1.8			15.9	3.8
030	0.1	5.1	100.0				0.4	5.1	100.0	3.3	1.7			11.6	2.9
100	0.2	5.0	100.0				0.3	5.1	100.0	3.1	1.8			9.8	3.3
130	0.2	5.0	100.0				0.3	5.1	100.0	2.8	1.7			7.3	3.0
200	0.1	5.0	100.0				0.2	5.2	100.0	2.7	1.6			4.7	1.9
230	0.1	5.0	100.0				0.2	5.1	100.0	2.5	1.6			3.8	1.7
300	0.0	5.0	100.0				0.1	5.1	100.0	2.4	1.5			4.1	1.3
330	-0.1	5.0	100.0				0.0	5.2	100.0	2.1	1.4			6.0	0.8
400	-0.1	5.0	100.0				0.0	5.2	100.0	1.8	1.2			7.4	2.0
430	0.0	5.0	100.0				0.1	5.2	100.0	1.7	1.1			10.0	2.2
500	-0.1	5.0	100.0				0.1	5.2	100.0	1.5	0.9			13.7	2.9
530	0.0	5.0	100.0				0.2	5.2	100.0	1.4	0.8			19.5	4.9
600	0.0	5.0	100.0				0.3	5.1	100.0	1.3	0.7			27.7	6.4
630	0.2	4.7	96.8				0.6	5.0	99.1	1.3	0.5			48.0	8.7
700	0.2	4.7	95.4				0.5	5.0	99.6	1.3	0.4			43.3	8.0
730	0.5	4.7	94.5				1.0	5.0	97.3	1.3	0.4			81.2	14.2
800	0.4	4.6	93.1				1.0	5.0	95.9	1.4	0.4			98.8	18.6
830	0.3	4.6	93.7				1.0	4.9	95.1	1.6	0.4			110.9	20.5
900	0.3	4.6	93.5				1.2	5.0	94.5	1.7	0.4			151.1	26.1
930	0.5	4.5	90.9				1.6	4.9	91.1	1.8	0.3			219.8	39.9
1000	0.3	4.5	90.8				1.6	4.8	88.9	1.7	-0.2			297.1	55.7
1030	0.3	4.4	90.4				1.5	4.8	89.9	2.0	-0.4			271.7	47.8
1100	0.7	4.5	89.3				1.9	4.9	88.6	2.6	0.1			288.2	50.3
1130	1.1	4.7	90.6				2.2	5.1	90.3	3.1	0.5			246.8	42.5
1200	1.6	4.6	85.5				3.3	5.0	82.8	2.7	-0.2			443.3	77.5
1230	1.5	4.5	84.2				3.3	4.9	81.8	2.8	-0.7			448.1	77.8
1300	1.9	4.6	83.4				3.6	5.0	81.2	3.3	-0.7			475.8	82.5
1330	1.9	4.8	86.3				3.5	5.1	82.9	3.8	-0.4			453.5	77.1
1400	2.3	4.8	85.7				3.9	5.2	82.3	4.1	-0.2			476.7	81.7
1430	2.3	4.9	87.3				3.7	5.3	84.9	4.6	0.2			417.0	71.5
1500	3.1	5.0	83.9				4.7	5.4	80.9	5.1	0.7			538.4	90.9
1530	3.2	5.0	83.7				4.8	5.4	80.9	5.3	0.7			541.0	89.4
1600	3.5	5.1	82.9				5.2	5.5	79.7	5.3	0.7			600.0	102.4
1630	3.4	5.1	83.2				5.0	5.4	80.2	5.3	0.8			552.3	93.7
1700	4.0	5.2	82.9				5.4	5.6	79.9	5.9	1.5			521.5	91.1
1730	4.2	5.3	83.2				5.6	5.6	80.3	6.0	1.7			498.1	88.8
1800	4.4	5.4	84.0				5.6	5.7	81.1	6.0	2.0			424.4	79.9
1830	4.4	5.5	84.6				5.6	5.7	81.5	5.9	2.1			413.0	78.3
1900	4.5	5.6	85.5				5.5	5.9	84.0	6.2	2.7			340.1	66.1
1930	4.5	5.7	86.7				5.3	5.9	85.7	6.1	2.8			268.7	51.2
2000	4.5	5.7	86.7				5.2	5.9	85.9	5.9	3.0			250.0	50.2
2030	4.5	5.7	87.0				5.1	5.9	86.4	5.6	2.8			220.8	48.4
2100	4.5	5.7	86.4				5.0	5.8	85.3	5.3	2.9			212.5	53.3
2130	4.1	5.7	89.2				4.4	5.8	89.2	5.1	3.0			141.1	33.5
2200	4.0	5.6	88.7				4.3	5.8	89.8	4.7	2.9			126.4	31.1
2230	3.7	5.7	91.4				3.9	5.8	92.7	4.4	2.7			89.4	21.3
2300	3.6	5.7	91.9				3.7	5.8	93.5	4.2	2.6			69.2	17.5
2330	3.4	5.7	93.3				3.4	5.8	95.2	3.9	2.5			47.3	10.9
Max	4.5	5.7	100.0				5.6	5.9	100.0	6.2	3.0			600.0	102.4
Min	-0.1	4.4	82.9				0.0	4.8	79.7	1.3	-0.7			3.8	0.8
Ave	1.8	5.1	91.4				2.6	5.3	90.8	3.5	1.2			220.1	40.3
Sum														19.0	3.5

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
13.0	-6.4			0.24										351.2 A
10.6	-7.3			0.25										
7.6	-7.8			0.34										351.2 A
3.3	-8.0			0.41										
2.0	-8.9			0.41										351.2 A
0.8	-9.2			0.46										
-2.1	-10.1			0.32										351.2 A
-0.8	-9.1			0.13										
0.5	-8.5			0.27										351.2 A
8.2	-6.6			0.22										
13.4	-4.6			0.21										351.1 A
18.7	-2.6			0.25										
25.0	-0.7			0.23										351.0 A
38.5	2.5			0.18										
34.8	3.0			0.18										350.9 A
65.2	6.1			0.18										
78.9	8.4			0.19										350.8 A
87.6	9.7			0.19										
119.4	14.3			0.17										350.7 A
169.0	20.3			0.18										
219.3	27.5			0.19										350.6 A
200.1	27.3			0.18										
220.5	25.6			0.17										350.6 A
192.9	18.2			0.17										
335.2	39.4			0.17										350.5 A
329.5	45.2			0.17										
351.4	46.4			0.17										350.4 A
334.3	41.4			0.17										
354.8	43.3			0.17										350.5 A
311.9	36.2			0.17										
388.8	38.3			0.17										350.4 A
386.6	37.7			0.17										
438.3	39.0			0.17										350.4 A
394.8	36.6			0.17										
383.1	29.4			0.17										350.4 A
359.5	23.6			0.18										
314.7	20.2			0.19										350.3 A
308.5	17.9			0.19										
257.1	13.1			0.19										350.3 A
204.9	9.4			0.19										
177.1	4.5			0.20										350.4 A
147.8	2.7			0.22										
116.7	-5.0			0.25										350.6 A
72.6	-5.8			0.24										
64.3	-4.3			0.25										350.7 A
39.8	-5.0			0.24										
17.3	-6.4			0.25										350.7 A
14.3	-6.2			0.23										
438.3	46.4			0.46										351.2
-2.1	-10.1			0.13										350.3
158.9	11.8			0.22										350.7
13.7	1.0													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	3.0	5.6	95.3				3.1	5.8	97.0	3.6	2.4			28.9	6.9
030	2.8	5.7	96.5				2.9	5.8	98.8	3.3	2.2			17.0	5.0
100	2.7	5.6	96.6				2.8	5.8	98.9	3.1	2.1			12.8	4.2
130	2.7	5.6	95.5				2.7	5.7	98.9	2.9	1.9			11.2	3.9
200	2.5	5.5	96.0				2.3	5.6	99.8	2.8	1.9			10.8	4.8
230	2.4	5.5	96.6				2.3	5.6	99.7	2.6	1.9			8.4	2.4
300	2.5	5.5	96.7				2.4	5.7	100.0	2.2	1.5			6.5	1.9
330	2.5	5.5	96.6				2.6	5.7	99.4	2.0	1.2			8.8	3.3
400	2.7	5.7	97.8				2.8	5.8	100.0	1.8	1.1			5.4	3.1
430	3.1	5.8	97.1				3.1	5.9	99.5	1.8	0.8			6.1	1.1
500	3.3	5.8	96.0				3.3	5.9	98.0	1.8	0.8			10.0	4.1
530	3.6	5.9	96.2				3.6	6.1	98.0	1.9	0.7			16.3	5.1
600	4.3	5.9	91.7				4.4	6.1	93.7	1.8	0.5			27.7	5.5
630	4.5	6.0	91.2				4.7	6.1	92.2	1.8	0.4			38.3	8.0
700	4.9	6.1	90.5				5.0	6.2	90.9	2.1	0.4			49.9	9.5
730	5.3	6.1	88.8				5.5	6.2	88.6	2.2	0.4			101.7	19.1
800	5.6	6.2	88.0				5.9	6.2	86.8	2.3	0.3			123.3	23.7
830	6.0	6.3	86.7				6.3	6.3	85.1	2.5	0.3			154.2	29.1
900	6.3	6.3	86.0				6.9	6.3	82.2	2.7	0.1			227.5	46.1
930	6.5	6.4	85.7				7.2	6.4	81.6	3.1	0.0			254.3	50.4
1000	7.1	6.5	83.3				7.8	6.4	78.8	3.3	-0.1			291.2	55.8
1030	7.7	6.4	79.5				8.6	6.4	75.0	3.5	-0.5			359.9	67.5
1100	8.3	6.5	76.7				9.3	6.4	71.7	3.9	-0.6			402.2	73.1
1130	9.1	6.4	72.7				10.2	6.4	67.8	4.3	-0.6			436.9	77.8
1200	9.8	6.4	69.7				10.9	6.5	65.3	4.8	-0.8			459.5	78.6
1230	10.5	6.5	67.7				11.6	6.6	63.1	5.3	-0.7			492.5	83.8
1300	11.2	6.6	64.7				12.5	6.6	60.6	5.8	-0.8			526.9	88.9
1330	11.8	6.7	64.2				13.0	6.8	59.7	6.5	-0.6			515.3	87.1
1400	12.7	6.9	62.4				13.9	6.9	57.9	7.0	-0.5			530.6	89.6
1430	13.4	7.1	61.2				14.5	7.1	57.4	7.6	-0.2			512.7	85.5
1500	14.1	7.2	59.9				15.2	7.3	56.2	8.0	0.0			516.8	86.7
1530	14.8	7.3	58.3				15.9	7.4	54.6	8.3	0.1			531.8	87.8
1600	15.5	7.5	57.3				16.6	7.5	53.2	8.6	0.2			514.2	84.8
1630	16.1	7.7	56.4				17.2	7.6	52.2	8.8	0.3			496.0	82.8
1700	16.7	7.9	55.7				17.7	7.7	51.5	9.1	0.5			474.6	80.6
1730	17.2	8.1	55.2				18.1	7.9	51.1	9.4	0.6			449.6	80.5
1800	17.7	8.3	54.7				18.5	8.1	51.1	9.7	1.0			410.9	74.7
1830	18.3	8.5	54.6				18.9	8.3	51.2	9.9	1.4			379.6	72.2
1900	18.7	8.6	54.0				19.1	8.4	51.3	10.1	1.7			336.8	66.0
1930	18.9	8.7	54.1				19.1	8.5	51.7	10.2	2.1			293.2	60.8
2000	19.0	8.9	54.6				19.0	8.6	52.7	10.3	2.4			246.0	54.1
2030	18.0	8.9	58.1				17.9	8.6	56.4	10.4	2.7			196.3	45.6
2100	13.9	8.5	70.8				14.2	8.3	67.8	10.3	2.9			177.5	44.4
2130	13.7	8.5	72.4				13.7	8.4	70.8	10.3	3.3			136.3	32.6
2200	13.7	8.7	73.6				13.5	8.4	72.2	10.0	3.4			110.7	27.6
2230	13.6	8.7	74.3				13.3	8.5	73.8	9.7	3.6			85.0	22.5
2300	12.0	8.4	78.7				11.7	8.2	78.3	9.4	3.7			66.0	17.7
2330	11.6	8.2	79.4				11.0	8.0	79.9	9.2	4.0			48.0	14.5
Max	19.0	8.9	97.8				19.1	8.6	100.0	10.4	4.0			531.8	89.6
Min	2.4	5.5	54.0				2.3	5.6	51.1	1.8	-0.8			5.4	1.1
Ave	9.6	6.9	76.9				10.1	6.9	75.5	5.7	1.0			231.6	42.9
Sum														20.0	3.7

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
11.8	-5.8			0.24										350.7 A
8.7	-5.3			0.29										
1.6	-5.7			0.33										350.9 A
-15.6	-6.8			0.35										
-43.0	-9.9			0.44										351.2 A
-26.0	-9.9			0.29										
-7.2	-6.0			0.30										351.4 A
4.3	-2.8			0.37										
12.2	0.2													351.4 A
13.9	2.0			0.18										
18.9	3.4			0.41										351.2 A
24.6	4.7			0.32										
33.4	7.8			0.20										350.0 V
44.1	10.5			0.21										
47.2	11.9			0.19										349.9 A
56.7	12.1			0.19										
75.9	14.3			0.19										349.8 A
104.6	16.3			0.19										
160.4	23.2			0.20										349.8 A
185.9	26.1			0.20										
202.7	28.3			0.19										349.3 D
253.4	37.6			0.19										
284.9	44.7			0.18										348.5 V
306.9	50.9			0.18										
319.4	53.8			0.17										347.0 V
341.6	57.6			0.17										
367.6	61.3			0.17										346.0 D
352.9	59.1			0.17										
361.7	60.6			0.17										345.4 D
346.3	57.6			0.17										
349.5	57.3			0.17										344.7 D
362.6	56.8			0.17										
345.8	55.5			0.16										343.9 A
331.8	55.1			0.17										
317.2	53.4			0.17										344.1 A
298.1	49.1			0.18										
269.3	43.3			0.18										344.3
246.5	38.1			0.19										
212.0	34.5			0.20										344.4
177.6	31.5			0.21										
140.0	27.3			0.22										344.4
98.4	23.1			0.23										
87.2	17.9			0.25										343.5 D
57.8	13.2			0.24										
38.9	10.8			0.25										343.1 V
19.9	7.4			0.27										
6.2	3.3			0.27										342.9 D
-4.5	-1.2			0.30										
367.6	61.3			0.44										351.4
-43.0	-9.9			0.16										342.9
150.1	24.3			0.23										347.4
13.0	2.1													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	11.3	8.3	81.9				9.9	7.8	84.4	8.9	4.2			30.6	10.6
030	9.9	7.9	85.5				8.4	7.5	89.1	8.6	4.4			17.3	5.9
100	9.0	7.7	87.5				6.7	7.0	93.0	8.3	4.5			11.9	5.0
130	9.9	8.0	85.6				6.4	7.0	94.3	7.8	4.7			8.8	3.9
200	10.4	8.4	87.4				6.8	7.2	94.0	7.3	4.4			6.8	4.0
230	10.7	8.3	84.7				9.0	7.9	89.6	6.3	3.7			6.5	4.2
300	9.1	8.0	90.4				6.5	7.2	96.2	6.0	3.5			7.2	3.8
330	9.3	8.2	90.9				5.3	6.8	97.8	6.0	3.9			8.5	5.2
400	7.2	7.3	92.9				4.5	6.5	98.6	5.8	3.9			12.2	7.6
430	7.3	7.3	92.9				4.3	6.4	98.4	5.5	3.8			17.5	10.6
500	7.0	7.3	94.3				5.1	6.6	97.3	5.1	3.5			27.6	13.5
530	6.9	7.3	94.8				5.5	6.7	96.5	4.7	3.0			42.7	17.5
600	7.0	7.3	94.0				6.4	7.0	94.7	4.4	2.5			56.3	20.1
630	7.8	7.6	92.9				7.6	7.5	93.0	4.1	2.0			74.7	25.2
700	8.8	8.0	92.6				8.7	7.9	91.6	3.8	1.3			112.4	34.0
730	9.3	8.1	90.9				9.3	8.1	90.3	3.6	0.7			142.2	34.0
800	10.1	8.0	85.5				9.9	8.3	88.6	3.9	0.4			209.4	47.9
830	8.4	7.2	85.3				8.6	7.5	88.1	4.4	0.1			186.7	38.2
900	7.7	7.1	87.4				8.4	7.1	83.4	5.3	0.7			188.9	36.5
930	8.5	7.0	82.3				9.2	7.0	79.0	5.9	1.2			203.5	37.1
1000	9.5	7.1	78.2				10.1	7.2	76.2	6.2	1.2			172.3	28.9
1030	9.7	7.3	80.0				10.5	7.4	76.2	6.3	0.9			218.3	38.8
1100	8.6	7.3	85.8				9.5	7.3	80.9	6.5	1.0			295.1	53.4
1130	7.4	7.0	89.0				8.3	7.1	84.6	7.1	1.4			233.9	42.2
1200	8.6	7.2	84.6				9.6	7.3	79.7	7.4	1.5			350.6	59.1
1230	8.9	7.2	82.3				9.8	7.3	78.6	7.4	1.2			266.4	44.0
1300	9.2	7.2	80.8				10.0	7.3	77.6	7.7	1.4			271.9	47.6
1330	9.4	7.1	78.5				10.4	7.2	75.1	7.8	1.3			392.4	68.3
1400	8.8	6.7	77.8				10.1	6.9	73.4	7.7	0.9			545.6	90.8
1430	8.6	6.7	77.7				10.0	6.8	72.8	8.1	1.0			557.8	92.7
1500	8.8	6.7	77.4				10.2	6.9	72.3	8.5	1.0			497.6	84.0
1530	9.1	6.7	75.5				10.7	6.8	69.9	8.8	1.1			580.5	93.8
1600	8.9	6.6	76.2				10.5	6.8	70.6	9.0	1.1			554.8	90.6
1630	9.2	6.7	75.1				10.8	6.8	69.4	9.3	1.0			553.2	90.6
1700	9.1	6.7	75.4				10.7	6.8	69.7	9.7	1.3			530.3	91.1
1730	9.3	6.8	75.7				10.8	6.8	69.4	10.0	1.7			491.2	87.2
1800	9.4	6.8	75.9				10.4	6.9	71.9	10.3	2.1			316.4	58.3
1830	9.8	7.1	76.0				10.4	7.1	74.2	10.7	3.0			187.8	33.7
1900	10.3	7.1	74.1				10.7	7.2	73.1	10.5	3.3			183.7	32.1
1930	9.8	6.9	75.1				10.0	7.0	75.4	10.2	3.5			98.2	16.6
2000	9.6	7.0	76.0				9.9	7.1	76.0	9.7	3.6			114.7	20.5
2030	9.5	6.9	76.3				9.6	7.0	76.7	9.2	3.4			92.7	17.2
2100	9.3	7.0	77.7				9.4	7.0	78.2	8.8	3.3			42.7	7.0
2130	9.2	7.1	79.7				9.1	7.1	80.3	8.4	3.4			23.0	5.4
2200	9.2	7.1	80.0				9.1	7.1	80.8	8.2	3.4			17.3	3.4
2230	9.3	7.3	81.2				9.1	7.3	82.0	7.8	3.3			18.4	3.6
2300	9.3	7.4	82.3				9.1	7.4	83.0	7.5	3.2			18.7	4.2
2330	9.4	7.5	82.7				9.1	7.4	83.8	7.3	3.2			22.8	6.6
Max	11.3	8.4	94.8				10.8	8.3	98.6	10.7	4.7			580.5	93.8
Min	6.9	6.6	74.1				4.3	6.4	69.4	3.6	0.1			6.5	3.4
Ave	9.0	7.3	83.1				8.8	7.2	82.7	7.3	2.4			187.9	34.9
Sum														16.2	3.0

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-14.3	-4.9			0.35										342.1 D
-18.9	-8.8			0.34										
-16.3	-11.7			0.42										346.0 V
-15.5	-13.1			0.44										
-20.6	-13.1													347.3 V
-33.0	-7.7													
-19.8	-11.3													348.8 V
-15.8	-12.4													
-11.7	-11.9													349.1 D
-7.9	-10.8													
-4.2	-8.3			0.49										349.7 V
3.3	-4.8			0.41										
10.5	-0.1			0.36										351.6 V
18.3	4.4			0.34										
35.2	10.8			0.30										347.9 V
57.2	18.5			0.24										
125.3	33.3			0.23										346.0 V
121.5	40.0			0.20										
127.5	31.2			0.19										C
141.9	31.6			0.18										
129.2	31.0			0.17										C
161.3	37.1			0.18										
206.7	40.9			0.18										C
192.1	32.1			0.18										
277.8	44.1			0.17										C
210.4	40.1			0.17										
227.0	36.5			0.18										C
316.6	44.0			0.17										
399.3	57.4			0.17										C
408.2	54.6			0.17										
382.3	53.7			0.17										C
410.9	57.1			0.16										
380.1	53.1			0.16										351.7 D
384.3	53.6			0.16										
364.0	47.5			0.17										351.2 D
333.5	42.3			0.18										
221.5	31.9			0.18										350.7 D
155.1	21.2			0.18										
148.2	19.1			0.17										349.7 D
84.1	9.8			0.17										
96.6	9.7			0.18										349.1 A
76.1	10.0			0.19										
39.3	5.1			0.16										349.2 A
22.5	2.3			0.24										
16.2	2.1			0.20										349.6 V
17.6	2.9			0.19										
11.7	3.4			0.23										349.6 D
-8.8	2.0			0.29										
410.9	57.4			0.49										351.7
-33.0	-13.1			0.16										342.1
127.6	18.6			0.23										348.8
11.0	1.6													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	10.0	7.6	80.9				9.8	7.6	81.9	6.9	3.0			15.1	1.9
030	9.9	7.5	80.2				9.7	7.5	81.3	6.7	2.8			4.0	1.5
100	9.0	7.3	83.7				8.8	7.3	84.6	6.7	2.9			5.5	4.1
130	9.0	7.5	85.1				8.7	7.4	85.9	6.8	3.2			5.5	2.3
200	8.6	7.4	86.5				8.4	7.4	87.8	6.6	3.2			5.0	2.8
230	7.7	7.1	87.8				7.5	7.1	88.9	6.6	3.3			6.2	3.1
300	6.6	6.9	91.9				6.5	6.9	92.5	6.6	3.6			5.0	3.1
330	5.6	6.5	93.0				5.5	6.6	94.3	6.4	3.6			6.2	3.2
400	4.4	6.1	93.4				4.4	6.2	95.3	6.2	3.6			7.6	3.4
430	3.8	6.0	95.5				3.8	6.1	97.4	6.0	3.7			11.8	4.4
500	3.1	5.8	97.4				3.2	5.9	98.9	5.6	3.5			14.6	4.5
530	2.3	5.6	99.5				2.4	5.8	100.0	5.2	3.2			17.3	5.9
600	2.4	5.6	97.7				2.5	5.8	100.0	4.7	2.9			18.6	4.1
630	2.4	5.4	95.3				2.5	5.6	98.4	4.4	2.6			23.2	3.9
700	2.2	5.3	94.9				2.5	5.5	97.0	4.1	2.5			29.7	7.5
730	2.1	5.3	95.3				2.4	5.5	96.6	4.0	2.3			27.3	5.8
800	2.0	5.3	95.5				2.3	5.5	96.9	3.9	2.2			32.9	5.2
830	1.9	5.3	95.5				2.3	5.4	96.4	3.7	2.1			42.3	8.3
900	1.9	5.2	95.4				2.2	5.4	96.4	3.7	2.0			43.6	8.3
930	1.9	5.2	94.9				2.4	5.4	95.8	3.6	1.9			59.6	11.6
1000	2.1	5.3	94.6				2.8	5.5	93.8	3.5	1.6			138.3	21.9
1030	1.8	5.2	95.0				2.7	5.4	93.4	3.3	1.0			186.2	30.6
1100	1.7	5.2	95.7				2.7	5.4	93.0	3.5	0.7			204.9	34.8
1130	1.6	5.2	95.7				2.6	5.4	93.6	3.9	0.7			184.4	32.1
1200	2.0	5.2	94.8				3.1	5.5	92.3	4.2	0.7			242.1	40.5
1230	1.9	5.3	97.2				2.8	5.6	96.2	4.4	0.7			220.2	37.6
1300	2.4	5.5	95.9				3.3	5.8	95.4	4.9	1.0			187.2	31.8
1330	2.8	5.5	94.0				3.5	5.8	94.2	5.2	1.2			128.4	21.6
1400	3.2	5.6	93.8				3.8	5.9	95.3	5.3	1.7			114.5	17.7
1430	3.5	5.6	92.3				3.9	5.9	94.0	5.3	1.8			91.3	15.2
1500	3.5	5.7	92.9				3.9	6.0	94.7	5.2	1.8			77.6	12.3
1530	3.5	5.8	94.3				3.9	6.0	96.3	5.1	1.9			67.8	11.3
1600	3.5	5.8	94.9				3.9	6.1	96.8	4.9	1.9			63.3	9.8
1630	3.8	5.9	94.9				4.1	6.2	96.9	4.7	1.8			66.5	9.3
1700	3.8	5.9	94.8				4.1	6.2	96.9	4.6	1.7			78.0	11.8
1730	4.0	6.0	95.0				4.3	6.2	96.3	4.5	1.7			61.8	9.9
1800	4.1	6.0	93.8				4.3	6.2	95.9	4.4	1.7			54.2	10.0
1830	4.2	6.0	93.9				4.5	6.3	95.3	4.3	1.6			88.1	13.0
1900	4.2	6.0	93.8				4.5	6.2	95.1	4.3	1.5			80.6	13.2
1930	4.2	6.0	94.0				4.5	6.2	95.0	4.3	1.6			68.5	10.7
2000	4.3	6.1	94.1				4.6	6.3	95.5	4.2	1.6			56.5	10.4
2030	4.5	6.1	93.6				4.7	6.3	94.8	4.2	1.6			44.2	7.6
2100	4.8	6.2	92.9				5.0	6.4	94.3	4.1	1.6			51.1	8.2
2130	4.9	6.2	93.0				5.1	6.4	94.4	4.1	1.5			57.8	10.2
2200	4.9	6.2	92.5				5.1	6.4	93.6	4.1	1.6			62.2	11.3
2230	5.1	6.3	92.6				5.2	6.5	93.9	4.1	1.5			45.0	8.0
2300	5.4	6.4	92.9				5.4	6.5	93.6	4.0	1.5			29.8	5.8
2330	5.6	6.6	94.2				5.6	6.7	94.8	3.9	1.4			10.1	2.2
Max	10.0	7.6	99.5				9.8	7.6	100.0	6.9	3.7			242.1	40.5
Min	1.6	5.2	80.2				2.2	5.4	81.3	3.3	0.7			4.0	1.5
Ave	4.1	6.0	93.3				4.4	6.2	94.2	4.8	2.1			65.5	11.5
Sum														5.7	1.0

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
6.1	4.5			0.13										349.7 V
5.7	5.7			0.36										
-0.1	4.4													349.4 D
-10.3	2.0			0.43										
-16.4	1.7													347.7 V
-14.1	-0.6													
-15.8	-4.1													346.6 A
-0.7	-4.4													
1.2	-7.1			0.44										346.6 A
1.3	-8.6			0.37										
13.5	-7.4			0.31										346.6 A
18.7	-6.7			0.34										
20.1	-5.3			0.22										346.8 A
22.7	-4.4			0.17										
28.1	-3.1			0.25										347.8 D
25.9	-2.0			0.21										
30.2	-1.9			0.16										348.8 D
38.3	0.0			0.20										
39.1	1.1			0.19										I
53.2	3.7			0.19										
118.5	12.2			0.16										349.3 D
157.8	25.6			0.16										
172.4	26.4			0.17										349.6 A
156.9	23.9			0.17										
205.6	28.5			0.17										349.5 A
182.1	30.0			0.17										
155.7	27.3			0.17										349.6 A
109.4	19.1			0.17										
100.5	13.8			0.15										349.8 A
81.9	10.7			0.17										
68.6	8.6			0.16										350.0 A
62.5	6.6			0.17										
60.0	6.5			0.15										350.2 A
61.5	6.8			0.14										
71.3	7.8			0.15										349.9 D
57.5	7.2			0.16										
48.9	6.9			0.18										349.4 D
79.6	8.8			0.15										
71.9	10.7			0.16										348.5 V
63.0	8.7			0.16										
53.7	7.6			0.18										347.0
44.8	6.6			0.17										
51.7	6.4			0.16										346.9
57.1	8.8			0.18										
61.7	8.4			0.18										346.6
44.1	7.5			0.18										
30.4	6.3			0.20										346.9
17.2	4.7			0.21										
205.6	30.0			0.44										350.2
-16.4	-8.6			0.13										346.6
56.1	6.7			0.20										348.4
4.8	0.6													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	6.0	6.9	95.1				5.9	6.9	95.4	3.8	1.4			5.5	1.6
030	6.4	7.0	94.0				6.4	7.0	94.6	3.7	1.2			6.6	1.7
100	6.6	7.0	93.6				6.5	7.1	94.7	3.5	1.1			5.8	2.4
130	6.5	7.0	94.4				6.3	7.0	95.1	3.7	1.2			4.8	1.5
200	6.3	7.0	94.9				6.2	7.0	95.2	3.9	1.5			3.2	2.6
230	6.2	6.9	94.3				5.9	6.9	95.6	4.1	1.8			3.1	1.7
300	7.8	7.5	91.7				7.4	7.4	92.9	3.7	1.4			0.7	0.0
330	8.2	7.4	88.5				7.7	7.5	92.5	3.0	0.6			2.0	0.6
400	8.6	7.4	86.4				8.0	7.5	91.4	3.2	0.5			3.2	3.1
430	8.9	7.5	85.8				8.3	7.6	89.8	3.5	0.7			5.1	2.5
500	9.2	7.6	85.2				8.9	7.5	86.5	3.7	0.7			9.3	3.2
530	9.5	7.6	83.6				9.2	7.5	84.7	3.9	0.8			18.8	4.7
600	9.7	7.6	82.0				9.4	7.5	83.5	4.1	0.8			12.8	3.1
630	9.9	7.5	80.2				9.5	7.5	82.5	4.4	1.0			11.9	3.7
700	9.7	7.6	82.2				9.3	7.6	84.7	4.7	1.2			11.3	3.3
730	9.5	7.7	85.2				9.1	7.7	87.3	5.0	1.4			12.1	2.8
800	9.5	7.7	85.1				9.2	7.8	87.1	5.2	1.3			11.5	3.0
830	9.4	7.8	86.4				9.2	7.8	88.0	5.2	1.3			10.9	2.4
900	7.8	7.3	89.8				7.6	7.3	91.0	5.4	1.6			18.3	6.7
930	5.3	6.5	93.9				5.4	6.6	95.2	6.0	2.5			65.6	11.3
1000	5.0	6.3	93.8				5.2	6.5	95.2	5.8	2.6			181.7	27.1
1030	5.0	6.1	90.2				5.3	6.3	92.2	5.3	2.1			218.2	34.5
1100	5.7	5.8	81.3				6.2	6.2	84.1	4.9	1.5			382.5	62.7
1130	6.1	5.4	75.0				6.7	5.8	76.4	4.6	0.8			463.6	76.0
1200	5.4	5.6	80.6				5.4	5.8	82.7	5.0	1.0			110.0	20.5
1230	4.9	5.7	84.9				5.1	5.9	86.4	5.5	1.9			186.5	29.4
1300	5.3	5.8	84.6				5.7	6.0	84.3	5.0	1.4			352.8	54.1
1330	4.8	5.7	85.7				5.1	5.9	86.8	5.0	1.3			275.7	44.6
1400	4.9	5.6	83.5				5.4	5.8	84.2	5.2	1.4			334.0	50.5
1430	5.4	5.6	80.9				5.8	5.7	80.2	5.0	1.3			395.7	63.6
1500	5.0	5.4	80.3				5.4	5.6	80.7	4.9	1.0			338.8	54.0
1530	4.9	5.5	81.8				5.2	5.7	82.4	5.3	1.6			335.6	54.2
1600	4.6	5.5	82.8				4.8	5.7	85.6	5.4	1.8			346.2	55.4
1630	4.3	5.3	81.8				4.7	5.6	84.7	5.1	1.7			499.9	85.0
1700	3.5	5.2	85.0				3.8	5.5	88.0	5.1	1.7			348.3	60.7
1730	3.3	5.3	86.7				3.6	5.5	89.2	5.2	2.1			219.7	37.0
1800	3.2	5.2	86.9				3.3	5.4	89.2	5.0	2.1			188.3	30.6
1830	2.9	5.1	86.9				3.1	5.3	89.4	4.6	2.0			189.7	33.0
1900	2.7	5.0	86.7				3.1	5.3	88.7	4.1	1.6			304.8	57.6
1930	2.2	5.0	89.5				2.5	5.3	92.3	4.0	1.6			200.0	37.5
2000	2.3	5.1	90.7				2.5	5.4	94.2	4.1	1.8			160.7	28.6
2030	2.1	5.1	92.6				2.3	5.4	95.4	3.9	1.8			119.1	21.3
2100	2.0	5.1	92.7				2.2	5.3	94.6	3.7	1.8			56.1	10.4
2130	1.9	5.1	92.2				2.1	5.2	93.9	3.4	1.7			54.1	10.2
2200	1.7	5.0	92.4				1.9	5.2	94.3	3.1	1.6			53.6	12.2
2230	1.5	4.9	91.6				1.6	5.2	95.3	2.9	1.5			33.1	4.2
2300	1.4	4.9	92.6				1.5	5.1	96.0	2.7	1.5			28.2	7.1
2330	1.2	4.9	94.1				1.4	5.1	97.1	2.5	1.4			23.4	5.4
Max	9.9	7.8	95.1				9.5	7.8	97.1	6.0	2.6			499.9	85.0
Min	1.2	4.9	75.0				1.4	5.1	76.4	2.5	0.5			0.7	0.0
Ave	5.5	6.2	87.5				5.5	6.3	89.4	4.4	1.4			138.0	23.5
Sum														11.9	2.0

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
13.1	4.7			0.30										347.8 D
12.9	6.2			0.26										
3.1	6.6			0.41										347.9 V
0.5	5.5			0.32										
-9.9	4.6													348.6 D
-32.1	0.0													
-34.9	1.3													351.6 V
-28.6	8.7													
-23.9	11.1													352.6 D
-20.6	12.6			0.48										
-15.6	13.5			0.35										351.6 D
-2.5	15.2			0.25										
4.3	16.4			0.24										352.0 V
8.3	16.3			0.31										
14.3	16.2			0.30										350.9 V
19.0	16.8			0.23										
18.1	17.2			0.26										350.7 V
19.0	16.5			0.22										
19.9	12.5			0.36										345.6 D
58.0	4.4			0.17										
135.8	8.9			0.15										346.1 V
134.7	16.5			0.16										
284.9	33.2			0.16										348.6 V
368.5	50.4			0.16										
94.4	16.6			0.19										348.9 A
170.3	9.6			0.16										
303.8	26.7			0.15										349.1 A
243.2	23.3			0.16										
290.9	25.7			0.15										349.1 A
335.3	26.7			0.16										
286.1	27.4			0.16										348.9 A
286.1	18.2			0.16										
293.6	14.7			0.16										347.9 A
388.3	18.4			0.17										
285.8	13.7			0.17										348.0 A
192.4	6.3			0.17										
164.9	3.3			0.16										348.8 D
170.3	1.6			0.17										
243.6	5.8			0.19										349.1
164.5	3.5			0.19										
139.2	1.7			0.18										349.3
104.5	-0.2			0.18										
51.8	-5.2			0.18										349.2
49.1	-6.1			0.19										
47.2	-5.9			0.23										349.2
31.1	-6.7			0.13										
22.0	-8.4			0.25										349.2
19.8	-7.8			0.23										
388.3	50.4			0.48										352.6
-34.9	-8.4			0.13										345.6
110.9	10.8			0.22										349.2
9.6	0.9													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	1.1	4.9	93.6				1.2	5.1	97.6	2.3	1.3			14.6	1.3
030	0.8	4.9	95.8				1.0	5.1	99.0	2.2	1.3			10.4	3.1
100	0.9	4.9	95.8				0.9	5.1	99.7	2.0	1.2			5.2	0.0
130	0.8	4.9	95.0				0.9	5.1	98.9	1.8	1.1			2.8	0.0
200	0.8	4.9	96.0				0.8	5.1	99.5	1.6	1.1			2.3	0.0
230	0.6	4.9	98.4				0.7	5.1	100.0	1.5	1.0			1.5	0.0
300	0.5	4.9	98.2				0.6	5.1	100.0	1.4	1.0			0.4	0.0
330	0.5	4.9	97.3				0.6	5.0	100.0	1.3	0.9			1.5	0.8
400	0.5	4.8	95.8				0.6	5.0	98.9	1.2	0.8			2.6	2.0
430	0.6	4.8	94.5				0.7	4.9	97.7	1.1	0.7			3.5	1.8
500	0.6	4.7	92.3				0.7	4.9	96.1	1.0	0.6			9.5	2.9
530	0.6	4.6	91.9				0.7	4.9	96.4	0.9	0.6			19.1	5.9
600	0.3	4.7	95.4				0.4	5.0	100.0	0.9	0.6			52.9	9.0
630	-0.3	4.7	100.0				0.0	5.0	100.0	1.0	0.6			45.9	8.2
700	0.2	4.7	95.9				0.4	5.0	100.0	0.9	0.4			51.5	9.1
730	0.4	4.7	94.3				0.6	5.0	99.0	0.7	0.2			45.6	6.6
800	0.5	4.7	93.7				0.8	5.0	97.6	0.7	0.2			64.1	12.7
830	0.8	4.7	91.8				1.1	5.0	95.9	0.7	0.1			94.5	15.6
900	0.9	4.7	91.7				1.4	5.0	94.5	0.8	-0.1			164.1	27.0
930	0.9	4.7	91.5				1.5	5.0	93.3	0.9	-0.3			179.5	31.3
1000	1.0	4.7	90.8				1.7	5.0	92.6	1.2	-0.2			176.9	28.1
1030	1.3	4.8	90.5				1.9	5.1	92.5	1.5	-0.2			157.9	25.3
1100	1.7	4.8	88.6				2.7	5.1	88.2	1.5	-0.5			285.7	43.8
1130	1.6	4.8	88.2				2.3	5.1	89.9	1.9	-0.6			161.3	26.1
1200	2.2	4.9	87.2				2.9	5.2	88.5	2.2	-0.3			156.6	26.7
1230	2.3	4.9	86.9				2.9	5.2	88.4	2.4	-0.3			139.6	20.2
1300	2.5	4.9	86.1				2.9	5.2	88.8	2.6	0.0			105.0	16.7
1330	2.6	5.1	88.4				3.1	5.4	90.9	2.7	0.2			121.1	20.2
1400	3.1	5.2	88.0				4.1	5.7	89.4	2.7	-0.2			317.4	48.1
1430	3.2	5.1	84.7				4.0	5.5	85.8	3.1	-0.4			209.4	33.6
1500															
1530															
1600															
1630															
1700	2.7	5.1	87.0				3.6	5.5	88.5	4.7	0.0			184.9	30.4
1730	3.1	5.0	84.5				4.2	5.5	85.6	4.8	0.1			239.3	43.5
1800	2.8	4.9	84.0				3.8	5.4	86.1	4.8	-0.1			155.2	26.0
1830	3.0	5.0	84.9				3.9	5.5	87.2	5.1	0.5			163.4	27.4
1900	3.1	5.1	85.5				4.1	5.5	86.9	5.1	0.6			216.9	39.5
1930	3.0	5.1	86.1				3.9	5.5	87.6	4.9	0.4			219.6	36.4
2000	2.2	5.1	90.4				3.1	5.5	92.0	4.9	0.5			214.9	40.1
2030	2.4	5.1	89.8				3.3	5.5	91.3	4.9	0.6			225.1	44.9
2100	1.0	5.1	98.5				1.8	5.5	99.8	4.9	0.9			164.5	38.4
2130	0.5	5.1	100.0				1.1	5.4	100.0	5.1	1.6			99.0	19.3
2200	0.2	5.1	100.0				0.8	5.4	100.0	5.0	1.8			87.9	19.8
2230	-0.1	5.0	100.0				0.4	5.3	100.0	4.8	2.0			65.8	13.9
2300	0.1	5.0	100.0				0.5	5.3	100.0	4.6	2.1			32.4	6.5
2330	0.0	5.0	100.0				0.4	5.3	100.0	4.1	2.0			24.1	5.5
Max	3.2	5.2	100.0				4.2	5.7	100.0	5.1	2.1			317.4	48.1
Min	-0.3	4.6	84.0				0.0	4.9	85.6	0.7	-0.6			0.4	0.0
Ave	1.3	4.9	92.5				1.8	5.2	94.6	2.6	0.5			106.7	18.6
Sum														9.2	1.6

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
9.7	-8.7			0.09										349.4
4.6	-9.3			0.30										
0.4	-9.6													349.6 A
-2.4	-9.6													
-2.0	-9.5													349.6 A
-2.6	-9.0													
-2.2	-8.6													349.6 A
-2.9	-8.3													
-2.2	-8.0													349.7 A
0.2	-7.4													
3.5	-6.7			0.31										349.9 A
8.6	-5.7			0.31										
10.6	-6.6			0.17										349.8 A
43.0	-1.6			0.18										
47.5	-0.2			0.18										350.0 A
42.3	1.3			0.14										
55.5	2.9			0.20										349.9 A
82.8	6.8			0.16										
126.3	15.5			0.16										349.9 A
136.2	20.6			0.17										
135.4	21.6			0.16										349.6 A
115.6	20.3			0.16										
222.8	35.9			0.15										349.7 A
126.5	25.6			0.16										
118.9	19.0			0.17										349.6 A
106.2	19.2			0.14										
78.1	15.5			0.16										350.0 D
99.4	11.1			0.17										
251.1	38.2			0.15										350.0 V
161.8	35.4			0.16										
														350.0 V
														350.0 D
153.8	21.5			0.16										349.6
190.5	34.2			0.18										
119.4	28.0			0.17										349.7
133.5	20.2			0.17										
172.6	23.1			0.18										349.6
171.6	23.6			0.17										
169.5	20.2			0.19										349.6
154.9	15.9			0.20										
104.9	7.6			0.23										349.6
74.8	2.2			0.19										
61.5	3.2			0.23										349.6
36.4	-2.5			0.21										
17.3	-8.5			0.20										349.7
20.3	-7.5			0.23										
251.1	38.2			0.31										350.0
-2.9	-9.6			0.09										349.4
80.8	8.2			0.19										349.7
7.0	0.7													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-0.1	4.9	100.0				0.1	5.2	100.0	3.7	1.9			14.5	4.3
030	-0.2	4.9	100.0				0.0	5.2	100.0	3.4	1.8			7.5	2.3
100	-0.3	4.9	100.0				-0.1	5.2	100.0	2.9	1.7			9.8	3.1
130	0.1	5.0	100.0				0.2	5.2	100.0	2.6	1.5			2.7	1.9
200	0.0	4.9	100.0				0.0	5.2	100.0	2.3	1.3			0.9	0.0
230	0.1	5.0	100.0				0.2	5.2	100.0	2.1	1.3			0.1	0.0
300	0.1	4.9	100.0				0.1	5.2	100.0	1.9	1.2			0.8	0.0
330	0.1	5.0	100.0				0.2	5.2	100.0	1.8	1.1			0.7	0.0
400	0.2	4.9	100.0				0.2	5.2	100.0	1.6	1.0			2.8	0.0
430	0.4	5.0	100.0				0.5	5.2	100.0	1.4	0.9			8.5	3.8
500	0.8	5.0	99.0				0.9	5.3	100.0	1.3	0.7			12.8	3.4
530	1.2	5.2	98.5				1.4	5.4	100.0	1.2	0.5			22.6	4.6
600	1.6	5.2	96.4				1.8	5.4	99.1	1.0	0.3			31.7	8.7
630	1.9	5.2	94.5				2.0	5.4	97.6	1.1	0.2			27.6	5.9
700	2.3	5.3	92.9				2.5	5.5	95.3	1.2	0.2			37.9	7.8
730	2.7	5.3	91.7				3.0	5.5	93.8	1.2	0.1			45.7	8.2
800	3.0	5.4	90.7				3.3	5.6	92.3	1.3	0.2			67.1	11.9
830	3.4	5.5	89.9				3.9	5.7	90.5	1.4	-0.1			104.1	17.3
900	3.7	5.5	89.1				4.1	5.8	90.1	1.5	-0.2			96.2	16.2
930	4.0	5.7	89.9				4.4	5.9	90.6	1.7	-0.2			92.0	16.3
1000	4.4	5.8	89.1				4.7	6.0	90.6	1.9	0.0			68.4	12.6
1030	4.6	6.1	92.2				4.7	6.3	94.5	2.3	0.2			42.3	7.8
1100	4.9	6.2	92.4				5.0	6.4	95.3	2.4	0.3			50.4	7.9
1130	5.0	6.3	92.3				5.1	6.5	94.9	2.5	0.4			49.5	7.4
1200	5.0	6.3	93.4				5.1	6.5	95.5	2.7	0.5			34.8	6.1
1230	5.2	6.5	94.3				5.2	6.6	95.5	2.9	0.6			29.2	4.6
1300	5.3	6.5	93.6				5.3	6.6	95.4	2.9	0.5			54.5	7.4
1330	5.2	6.4	93.2				5.3	6.6	95.2	2.9	0.5			49.9	7.3
1400	5.3	6.5	93.5				5.3	6.6	94.9	3.2	0.8			34.5	5.5
1430	5.3	6.4	93.2				5.3	6.6	95.3	3.2	0.8			28.5	3.4
1500	5.3	6.5	93.7				5.4	6.6	95.5	3.1	0.8			30.6	4.4
1530	5.4	6.5	94.0				5.4	6.7	95.9	3.1	0.7			42.7	6.8
1600	5.5	6.6	93.7				5.5	6.7	95.7	3.1	0.6			27.9	3.8
1630	5.5	6.6	94.4				5.5	6.7	95.5	3.2	0.7			31.0	4.4
1700	5.4	6.6	94.2				5.5	6.7	95.4	3.2	0.7			16.5	3.0
1730	5.5	6.6	94.4				5.5	6.7	95.6	3.2	0.7			20.8	2.8
1800	5.6	6.6	94.4				5.6	6.8	95.8	3.2	0.7			23.3	5.2
1830	5.8	6.7	94.1				5.8	6.8	95.9	3.1	0.7			20.5	4.0
1900	6.2	6.8	93.2				6.2	7.0	94.8	3.0	0.5			20.1	3.2
1930	7.1	7.2	92.9				7.1	7.3	93.7	3.0	0.4			18.0	1.4
2000	7.8	7.6	93.2				7.8	7.6	93.1	2.7	-0.2			24.2	4.2
2030	7.5	7.4	93.0				7.5	7.5	93.6	3.1	0.1			38.2	7.8
2100	7.4	7.3	92.3				7.4	7.4	93.6	3.5	0.4			50.4	7.8
2130	7.0	7.1	92.3				7.1	7.3	94.0	3.9	0.7			53.5	8.8
2200	6.6	7.0	92.4				6.7	7.1	94.2	4.1	1.0			42.1	7.5
2230	6.4	6.9	92.7				6.4	7.0	94.6	4.1	1.1			25.6	6.2
2300	5.8	6.7	93.2				5.9	6.8	95.0	4.1	1.2			14.8	4.6
2330	5.4	6.5	93.7				5.4	6.7	95.9	4.0	1.2			6.9	4.0
Max	7.8	7.6	100.0				7.8	7.6	100.0	4.1	1.9			104.1	17.3
Min	-0.3	4.9	89.1				-0.1	5.2	90.1	1.0	-0.2			0.1	0.0
Ave	3.9	6.0	94.6				4.0	6.2	95.9	2.6	0.7			32.0	5.7
Sum														2.8	0.5

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
3.0	-10.4			0.30										349.8
0.6	-11.7			0.30										
2.4	-10.7			0.32										350.0
-1.6	-9.8													
-6.8	-9.9													350.0
-2.8	-9.1													
-5.9	-9.1													349.9
-2.6	-8.2													
-2.8	-7.9													349.8
3.6	-5.8			0.44										
9.4	-3.9			0.27										349.8
21.7	-0.2			0.20										
28.1	2.9			0.27										349.8
25.2	3.8			0.21										
32.8	5.3			0.20										349.7
40.1	7.6			0.18										
57.7	10.3			0.18										349.4
85.7	17.0			0.17										
80.7	19.0			0.17										349.4
77.2	18.4			0.18										
56.7	15.7			0.18										349.5
38.1	10.6			0.18										
48.3	11.5			0.16										349.3 A
49.3	12.2			0.15										
35.8	10.5			0.17										349.5
31.5	9.8			0.16										
55.1	11.7			0.14										349.3 A
50.9	12.7			0.15										
38.6	9.8			0.16										349.3 A
33.2	9.0			0.12										
35.4	9.4			0.14										348.9 D
46.8	11.1			0.16										
33.0	10.9			0.14										348.6
35.5	10.6			0.14										
24.0	9.0			0.18										348.6
27.3	8.9			0.13										
28.8	9.7			0.22										348.7
27.9	10.6			0.19										
27.8	11.4			0.16										350.4 V
28.1	13.0			0.08										
31.0	18.2			0.17										346.3 V
42.6	18.5			0.20										
52.3	19.2			0.15										347.2 V
54.1	17.8			0.16										
42.8	15.1			0.18										350.0 V
29.0	11.9			0.24										
22.1	8.2			0.31										349.1 V
16.6	5.9			0.58										
85.7	19.2			0.58										350.4
-6.8	-11.7			0.08										346.3
31.0	6.7			0.20										349.3
2.7	0.6													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	5.0	6.4	94.1				5.0	6.5	96.3	3.9	1.3			10.2	3.5
030	4.9	6.3	93.5				4.9	6.5	96.2	3.8	1.3			5.9	3.3
100	5.0	6.3	93.6				4.9	6.5	96.3	3.7	1.3			2.1	2.0
130	5.1	6.4	93.7				5.0	6.5	95.8	3.5	1.2			0.0	0.0
200	5.0	6.3	93.4				4.9	6.5	95.8	3.3	1.2			0.0	0.0
230	4.9	6.3	93.8				4.8	6.4	96.3	3.2	1.1			0.0	0.0
300	4.8	6.2	93.3				4.7	6.4	96.4	3.1	1.1			0.0	0.0
330	4.6	6.2	94.7				4.5	6.4	96.8	3.0	1.1			0.0	0.0
400	4.4	6.3	96.3				4.5	6.4	98.0	3.0	1.1			0.0	0.0
430	4.5	6.3	96.4				4.5	6.4	98.0	2.9	1.0			0.0	0.0
500	4.5	6.3	96.0				4.5	6.4	97.8	2.8	1.0			0.0	0.0
530	5.1	6.5	95.2				5.0	6.6	97.4	2.7	0.9			0.0	0.0
600	6.6	7.1	94.3				6.5	7.1	94.7	2.4	0.4			0.0	0.0
630	6.4	7.0	93.9				6.3	7.0	95.4	2.3	0.2			4.2	1.4
700	6.2	6.9	93.9				6.1	7.0	95.5	2.7	0.5			9.4	3.6
730	5.8	6.7	94.6				5.7	6.8	96.2	3.1	0.8			9.6	3.0
800	5.8	6.7	94.5				5.8	6.8	95.8	3.3	1.0			9.5	1.9
830	5.5	6.6	94.8				5.5	6.8	96.5	3.3	1.1			14.2	2.8
900	5.0	6.4	94.7				5.0	6.6	96.6	3.3	1.1			35.3	6.3
930	4.4	6.2	94.4				4.5	6.4	97.1	3.4	1.2			49.0	8.2
1000	3.7	6.0	95.6				3.9	6.2	98.1	3.4	1.2			46.0	8.4
1030	3.4	5.8	95.7				3.6	6.1	98.6	3.4	1.2			53.7	8.8
1100	3.2	5.7	95.7				3.4	6.0	99.0	3.3	1.1			57.4	8.8
1130	3.1	5.7	95.2				3.4	6.0	99.0	3.2	1.0			59.2	9.3
1200	3.1	5.7	95.5				3.4	6.0	98.6	3.2	0.9			54.8	8.4
1230	3.1	5.8	96.3				3.5	6.0	98.3	3.2	0.9			55.7	8.9
1300	3.2	5.8	96.2				3.5	6.0	98.7	3.2	0.9			51.0	7.8
1330	3.1	5.8	96.6				3.4	6.0	98.8	3.2	0.9			51.9	8.0
1400	2.9	5.7	96.2				3.2	6.0	99.6	3.2	0.9			52.2	8.5
1430	3.0	5.7	96.4				3.3	6.0	99.0	3.3	0.9			56.7	8.4
1500															
1530	2.8	5.6	96.9				3.4	6.0	99.1	3.3	0.8			110.4	15.5
1600	3.0	5.6	95.4				3.6	6.1	98.7	3.3	0.5			131.4	17.8
1630	3.3	5.7	94.1				3.9	6.2	97.5	3.4	0.4			172.7	23.2
1700	2.9	5.6	94.7				3.7	6.0	97.0	3.6	0.1			204.1	30.2
1730	3.0	5.5	93.4				4.0	6.0	94.6	4.0	0.2			238.5	36.7
1800	2.9	5.5	93.2				3.8	5.9	94.5	4.4	0.3			176.9	26.4
1830	3.1	5.6	93.2				3.7	5.9	94.4	4.7	0.7			126.0	19.6
1900	3.1	5.6	93.1				3.8	5.9	94.1	4.8	0.8			131.1	20.0
1930	2.9	5.5	93.4				3.5	5.8	94.5	4.7	0.9			116.5	17.1
2000	2.9	5.5	93.5				3.3	5.8	95.0	4.6	1.0			62.6	10.2
2030	2.9	5.5	94.2				3.0	5.8	97.4	4.6	1.3			16.8	3.5
2100	3.0	5.6	94.4				3.2	5.9	97.7	4.5	1.6			20.5	4.5
2130	3.0	5.6	94.7				3.1	5.8	97.8	4.2	1.5			19.2	4.2
2200	2.8	5.5	94.2				3.0	5.8	98.1	3.9	1.4			12.4	3.7
2230	2.8	5.5	95.1				2.9	5.8	98.4	3.7	1.4			7.5	2.8
2300	2.7	5.6	95.9				2.8	5.8	99.6	3.5	1.4			7.7	2.4
2330	2.6	5.6	96.3				2.7	5.8	99.5	3.3	1.3			5.7	1.8
Max	6.6	7.1	96.9				6.5	7.1	99.6	4.8	1.6			238.5	36.7
Min	2.6	5.5	93.1				2.7	5.8	94.1	2.3	0.1			0.0	0.0
Ave	3.9	6.0	94.8				4.1	6.2	97.1	3.5	1.0			47.8	7.7
Sum														4.1	0.7

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
17.8	5.1			0.34										349.4 D
14.8	4.6													
12.0	3.8													350.3 V
9.7	3.5													
8.0	3.5													349.4
6.9	3.3													
7.1	3.0													349.2
7.4	2.9													
7.3	2.8													350.9 V
8.7	2.9													
9.4	3.3													352.9 V
11.0	4.5													
11.5	9.5													345.7 V
13.2	12.2			0.34										
17.6	11.7			0.39										345.0 D
16.6	9.2			0.31										
17.0	8.1			0.20										345.6 V
21.8	7.7			0.20										
38.9	8.8			0.18										348.9
49.2	10.0			0.17										
47.8	8.3			0.18										348.9 NC
55.1	8.2			0.16										
59.1	9.8			0.15										348.8 NC
56.9	10.9			0.16										
51.8	11.0			0.15										348.6 NC
53.5	10.6			0.16										
48.6	10.3			0.15										348.7 NC
49.9	10.3			0.16										
50.9	9.3			0.16										348.6 NC
54.8	10.0			0.15										
														348.6 NC
99.6	18.6			0.14										
117.6	23.1			0.14										348.9 D
153.3	28.9			0.13										
170.9	35.4			0.15										349.2 V
200.3	39.6			0.15										
145.3	30.9			0.15										349.9 D
109.1	20.1			0.16										
112.6	20.7			0.15										350.5 D
101.5	17.3			0.15										
55.6	12.5			0.16										351.0 A
19.1	1.2			0.21										
23.1	-0.1			0.22										351.0 A
22.4	0.8			0.22										
17.1	-0.4			0.29										351.1 A
12.4	-1.5			0.37										
12.8	-1.4			0.31										350.9 A
11.4	-1.3			0.32										
200.3	39.6			0.39										352.9
6.9	-1.5			0.13										345.0
47.2	9.9			0.20										349.2
4.1	0.9													

IBP site August 2

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	2.6	5.5	96.4				2.7	5.8	99.3	3.1	1.2			5.0	1.4
030	2.5	5.6	97.4				2.7	5.8	99.3	3.0	1.2			0.7	0.0
100	2.6	5.6	97.6				2.7	5.8	99.9	2.9	1.2			0.0	0.0
130	2.7	5.6	97.0				2.8	5.8	99.9	2.8	1.1			0.0	0.0
200	2.7	5.6	96.8				2.8	5.8	99.9	2.7	1.2			0.0	0.0
230	2.9	5.7	97.3				2.9	5.9	100.0	2.6	1.1			0.0	0.0
300	3.0	5.8	97.3				3.0	5.9	99.3	2.4	1.1			0.0	0.0
330	3.2	5.8	97.0				3.2	5.9	99.0	2.4	0.9			0.0	0.0
400	3.3	5.9	96.8				3.3	6.0	98.8	2.3	0.9			0.0	0.0
430	3.5	5.9	97.1				3.5	6.1	99.1	2.3	0.9			0.7	0.0
500	3.8	6.1	96.9				3.9	6.1	97.6	2.2	0.7			0.8	0.0
530	4.0	6.1	96.5				4.0	6.2	97.3	2.1	0.6			5.2	1.8
600	4.2	6.1	95.6				4.1	6.2	97.6	2.2	0.6			5.6	1.7
630	4.4	6.2	95.8				4.4	6.3	97.1	2.2	0.6			10.0	1.4
700	4.6	6.4	96.1				4.7	6.4	96.8	2.2	0.5			13.6	3.5
730	5.1	6.5	95.6				5.1	6.6	96.7	2.2	0.4			17.7	2.3
800	6.4	7.0	94.2				6.4	7.0	95.0	2.0	0.0			28.8	3.8
830	5.4	6.6	95.1				5.5	6.8	96.7	2.2	0.1			45.4	8.4
900	5.4	6.6	95.3				5.5	6.7	96.4	2.8	0.4			36.8	7.1
930	5.3	6.6	95.6				5.5	6.7	96.6	3.0	0.6			32.3	6.0
1000	5.0	6.5	95.6				5.2	6.6	96.6	3.1	0.7			43.5	6.3
1030	4.2	6.2	96.3				4.6	6.4	97.4	3.3	0.8			58.4	9.7
1100	4.0	6.1	96.8				4.4	6.4	98.0	3.4	0.8			66.0	9.6
1130	3.8	6.1	97.0				4.4	6.4	98.0	3.5	0.7			113.7	16.3
1200	3.6	6.0	97.0				4.2	6.3	98.3	3.6	0.6			146.0	19.6
1230	3.3	5.9	98.1				3.9	6.2	98.6	3.8	0.5			147.2	20.2
1300	3.1	5.9	98.2				3.8	6.2	99.5	4.1	0.7			148.4	21.3
1330	3.2	5.9	97.8				3.7	6.2	99.2	4.2	0.7			117.4	16.3
1400	3.1	5.9	98.2				3.6	6.1	99.6	4.3	0.9			94.7	14.7
1430	3.0	5.8	97.9				3.5	6.1	99.8	4.3	1.0			109.9	15.9
1500	2.9	5.8	98.1				3.4	6.1	100.0	4.3	1.1			94.8	12.7
1530	2.9	5.8	97.8				3.5	6.1	99.6	4.2	1.1			103.6	13.8
1600	2.9	5.8	98.4				3.5	6.1	99.6	4.1	0.8			124.5	14.9
1630	2.4	5.7	99.2				3.0	6.0	100.0	4.2	0.8			101.8	14.4
1700	2.5	5.6	98.7				3.1	6.0	100.0	4.2	0.9			130.4	17.0
1730	2.5	5.7	99.2				3.1	6.0	100.0	4.3	0.9			105.1	15.2
1800	2.6	5.6	97.8				3.1	6.0	100.0	4.4	1.0			95.1	15.3
1830	2.8	5.7	96.7				3.2	6.0	100.0	4.3	1.1			84.2	13.2
1900	2.8	5.6	95.8				3.1	6.0	100.0	4.3	1.2			81.6	11.2
1930	2.5	5.6	98.0				3.0	5.9	100.0	4.2	1.2			86.8	11.5
2000	2.5	5.6	97.9				2.8	5.9	100.0	4.2	1.3			77.6	11.5
2030	2.6	5.5	95.9				2.8	5.9	100.0	4.2	1.3			61.9	9.5
2100	2.8	5.6	94.6				3.0	5.9	99.4	4.0	1.3			49.0	9.0
2130	2.4	5.5	96.9				2.6	5.8	99.9	3.8	1.3			49.8	6.8
2200	1.9	5.4	98.4				2.1	5.6	100.0	3.7	1.3			31.5	6.6
2230	1.6	5.3	98.8				1.8	5.6	100.0	3.6	1.5			18.5	3.8
2300	1.5	5.2	97.9				1.6	5.5	100.0	3.4	1.4			17.0	4.2
2330	1.4	5.1	95.4				1.5	5.4	100.0	3.1	1.4			21.9	11.4
Max	6.4	7.0	99.2				6.4	7.0	100.0	4.4	1.5			148.4	21.3
Min	1.4	5.1	94.2				1.5	5.4	95.0	2.0	0.0			0.0	0.0
Ave	3.3	5.9	97.0				3.5	6.1	98.9	3.3	0.9			53.8	8.1
Sum														4.6	0.7

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
10.3	-0.6			0.28										351.3 V
6.2	-1.2													
6.2	-1.6													351.2 V
6.1	-1.4													
5.4	-1.3													353.5 V
6.2	-1.2													
5.9	-0.5													351.2 V
6.4	0.2													
7.4	0.9													350.7 D
8.3	1.9													
9.1	3.1													350.2 D
14.2	4.5			0.35										
13.7	5.1			0.30										349.8 V
18.0	6.1			0.14										
21.9	7.7			0.26										352.6 V
26.7	9.3			0.13										
38.4	14.8			0.13										355.9 V
48.1	16.7			0.18										
39.0	15.6			0.19										352.9 V
35.9	13.1			0.19										
44.2	13.6			0.14										349.5 V
57.2	14.8			0.17										
64.8	15.2			0.15										349.6 V
106.7	22.0			0.14										
134.2	27.3			0.13										349.8
133.7	28.1			0.14										
138.0	24.3			0.14										349.9
109.7	23.2			0.14										
88.8	16.4			0.16										350.3 A
103.9	15.4			0.14										
90.5	13.4			0.13										350.3 A
95.7	14.5			0.13										
110.1	20.4			0.12										349.9 D
90.5	16.3			0.14										
115.6	18.2			0.13										349.6 D
91.9	16.9			0.14										
84.0	13.2			0.16										349.9 D
72.9	12.9			0.16										
71.7	10.9			0.14										349.6 D
77.5	10.3			0.13										
70.5	7.3			0.15										349.2 A
56.2	5.5			0.15										
45.6	3.8			0.18										349.2 A
43.4	3.4			0.14										
29.3	0.2			0.21										349.1 A
18.5	-2.6			0.20										
13.1	-4.7			0.25										349.0 A
11.4	-5.6			0.52										
138.0	28.1			0.52										355.9
5.4	-5.6			0.12										349.0
52.1	9.3			0.18										350.6
4.5	0.8													

IBP site August 3

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	1.1	5.1	97.3				1.2	5.3	100.0	2.9	1.3			17.9	6.4
030	0.6	5.1	100.0				0.6	5.3	100.0	2.8	1.4			11.6	1.5
100	0.2	5.0	100.0				0.4	5.2	100.0	2.6	1.4			5.1	2.4
130	-0.2	4.9	100.0				0.0	5.2	100.0	2.3	1.3			2.1	0.0
200	-0.6	5.1	100.0				-0.4	5.1	100.0	2.1	1.2			0.0	0.0
230	-0.5	4.9	100.0				-0.3	5.1	100.0	1.8	1.1			0.0	0.0
300	-0.7	4.9	100.0				-0.5	5.2	100.0	1.6	0.9			0.0	0.0
330	-0.8	4.8	100.0				-0.6	5.1	100.0	1.5	0.9			0.0	0.0
400	-0.7	4.8	100.0				-0.5	5.1	100.0	1.4	0.9			0.0	0.0
430	-0.5	4.8	100.0				-0.4	5.1	100.0	1.2	0.9			2.6	0.0
500	-0.4	4.8	100.0				-0.3	5.1	100.0	1.1	0.8			6.0	1.4
530	-0.4	4.8	100.0				-0.3	5.1	100.0	1.0	0.7			17.1	5.3
600	-0.3	4.8	100.0				-0.3	5.1	100.0	0.9	0.6			18.0	6.1
630	-0.3	4.8	100.0				-0.2	5.1	100.0	0.8	0.5			27.2	6.3
700	-0.2	4.8	100.0				-0.1	5.2	100.0	0.8	0.4			47.8	7.8
730	-0.1	4.8	99.2				0.2	5.2	100.0	0.9	0.3			58.9	8.8
800	0.1	4.8	98.3				0.5	5.3	100.0	0.8	0.0			76.5	10.8
830	0.0	4.7	96.4				0.4	5.2	100.0	0.9	-0.2			78.5	8.5
900	0.1	4.3	89.3				0.5	4.9	97.8	1.0	-0.3			114.6	14.8
930	0.2	4.2	85.0				0.7	4.7	93.0	1.2	-0.5			118.7	18.0
1000															
1030	0.6	4.2	82.9				1.0	4.7	90.1	1.9	-0.1			65.6	11.2
1100	0.6	4.4	86.7				1.0	4.8	92.5	2.0	0.0			110.9	17.0
1130	0.3	4.5	92.0				0.8	4.9	96.7	2.0	-0.1			104.3	14.8
1200	0.4	4.6	93.5				0.9	5.0	97.7	2.2	0.0			98.8	15.3
1230	0.6	4.7	94.0				1.0	5.1	98.2	2.3	0.2			92.7	13.4
1300	0.6	4.8	96.0				1.1	5.2	100.0	2.4	0.2			119.7	16.3
1330	0.7	4.8	95.6				1.3	5.3	99.3	2.4	0.0			184.6	26.5
1400	0.5	4.8	95.8				1.3	5.3	99.9	2.2	-0.6			211.0	29.6
1430	0.6	4.9	97.1				1.3	5.3	100.0	2.6	-0.7			169.9	23.1
1500	1.3	5.0	95.1				2.0	5.5	98.8	3.2	-0.3			190.3	27.8
1530	1.7	5.0	93.0				2.3	5.4	96.1	3.5	-0.1			155.8	22.1
1600	1.9	5.1	92.9				2.6	5.5	95.7	3.6	-0.1			190.4	25.7
1630	2.1	5.2	92.9				2.9	5.6	95.5	3.8	-0.1			202.9	29.8
1700	2.3	5.2	92.1				3.0	5.6	94.4	4.0	0.0			167.1	25.6
1730	2.5	5.2	91.1				3.2	5.7	94.3	4.3	0.3			151.8	22.8
1800	2.7	5.3	91.4				3.3	5.7	93.7	4.3	0.3			154.2	23.7
1830	2.1	5.2	93.6				2.7	5.6	96.8	4.4	0.5			87.7	13.1
1900	2.3	5.3	93.6				2.8	5.7	96.7	4.6	1.1			80.0	10.7
1930	2.4	5.4	94.0				2.9	5.8	98.1	4.5	1.2			84.0	13.0
2000	2.4	5.4	95.1				2.9	5.8	97.9	4.3	1.1			94.7	14.9
2030	2.6	5.4	93.9				3.2	5.7	95.7	4.1	0.9			106.4	17.0
2100	2.9	5.4	92.6				3.2	5.7	95.2	4.0	0.9			76.9	11.8
2130	3.2	5.5	91.8				3.4	5.8	95.2	4.1	1.1			80.5	12.6
2200	3.2	5.5	91.4				3.5	5.8	94.8	4.0	1.3			54.2	9.4
2230	3.4	5.5	90.4				3.6	5.8	94.3	3.9	1.2			43.8	8.0
2300	3.6	5.6	91.5				3.8	5.9	93.9	3.8	1.3			21.5	5.1
2330	3.2	5.6	92.6				3.4	5.8	96.0	3.7	1.4			15.3	3.9
Max	3.6	5.6	100.0				3.8	5.9	100.0	4.6	1.4			211.0	29.8
Min	-0.8	4.2	82.9				-0.6	4.7	90.1	0.8	-0.7			0.0	0.0
Ave	1.0	5.0	95.1				1.4	5.3	97.6	2.6	0.5			79.1	12.0
Sum														6.8	1.0

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
1.3	-6.7			0.36										349.0 A
-20.5	-12.7			0.13										
-3.5	-12.0													348.9 A
2.4	-10.1													
1.1	-10.1													349.5
-1.2	-9.7													
-1.9	-9.3													349.6
-9.4	-10.1													
-7.4	-9.7													349.7
-11.2	-9.6													
-5.6	-8.8			0.23										349.7 NC
-7.0	-8.1			0.31										
4.5	-7.0			0.34										349.7 NC
17.0	-4.0			0.23										
38.5	0.8			0.16										349.7
49.5	5.0			0.15										
64.0	11.5			0.14										C
60.6	13.0			0.11										
90.4	19.0			0.13										C
96.2	24.2			0.15										
														C
53.8	14.7			0.17										
94.7	16.0			0.15										C
91.7	16.1			0.14										
86.3	13.0			0.15										C
83.1	10.0			0.14										
109.0	11.1			0.14										C
160.9	23.3			0.14										
177.9	37.2			0.14										C
141.9	34.5			0.14										
164.0	33.9			0.15										349.1 A
129.7	29.7			0.14										
159.1	31.7			0.13										349.0 NC
170.0	32.6			0.15										
137.2	31.7			0.15										349.1 NC
125.5	24.8			0.15										
127.0	26.6			0.15										349.3 NC
71.6	17.8			0.15										
70.8	9.3			0.13										349.1 NC
73.3	10.7			0.16										
82.9	12.3			0.16										349.0 A
87.4	16.5			0.16										
52.4	10.3			0.15										349.0 NC
34.2	4.6			0.16										
40.9	5.2			0.17										348.9 A
32.0	4.9			0.18										
15.8	2.9			0.24										349.3
14.5	0.2			0.25										
177.9	37.2			0.36										349.7
-20.5	-12.7			0.11										348.9
62.7	9.1			0.17										349.3
5.4	0.8													

IBP site August 4

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
0	2.2	5.4	97.0				2.4	5.7	99.9	3.5	1.4			7.4	4.0
30	2.3	5.4	96.2				2.5	5.7	99.2	3.4	1.4			3.8	1.7
100	2.4	5.4	95.9				2.5	5.7	99.0	3.2	1.4			0.5	0.5
130	2.1	5.2	93.0				2.2	5.5	97.3	3.0	1.3			0.5	1.4
200	1.6	5.1	93.6				1.7	5.3	98.7	2.9	1.4			0.0	0.0
230	0.8	5.1	100.0				0.9	5.4	100.0	2.7	1.3			0.0	0.0
300	0.2	5.0	100.0				0.4	5.3	100.0	2.6	1.4			0.0	0.0
330	0.0	5.0	100.0				0.1	5.2	100.0	2.3	1.4			0.0	0.0
400	-0.3	4.8	100.0				-0.1	5.1	100.0	2.1	1.3			0.0	0.0
430	-0.3	4.6	97.5				-0.2	4.9	100.0	1.9	1.2			2.0	0.0
500	-0.4	4.5	96.1				-0.2	4.8	100.0	1.6	1.1			5.9	2.3
530	-0.6	4.5	96.9				-0.4	4.9	100.0	1.4	1.0			7.2	2.6
600	-0.7	4.6	99.4				-0.5	4.9	100.0	1.3	0.9			20.1	3.3
630	-0.8	4.6	100.0				-0.6	5.0	100.0	1.1	0.8			30.7	4.6
700	-1.4	4.6	100.0				-1.1	4.9	100.0	1.0	0.7			47.4	9.5
730	-1.8	4.5	100.0				-1.4	4.8	100.0	1.0	0.7			60.6	9.5
800	-1.9	4.5	100.0				-1.6	4.8	100.0	1.0	0.6			61.7	11.1
830	-1.8	4.5	100.0				-1.3	4.9	100.0	0.9	0.6			146.6	28.7
900	-2.1	4.5	100.0				-1.4	4.9	100.0	0.8	0.3			138.5	24.0
930	-2.4	4.5	100.0				-1.4	4.8	100.0	0.8	0.1			218.4	36.6
1000	-2.6	4.4	100.0				-1.4	4.8	100.0	0.8	-0.3			258.2	43.5
1030	-2.7	4.4	100.0				-1.6	4.8	100.0	1.1	-0.5			247.9	39.6
1100	-2.5	4.4	100.0				-1.2	4.9	100.0	1.5	-0.6			305.8	49.4
1130	-2.9	4.4	100.0				-1.5	4.8	100.0	1.9	-0.7			326.7	56.6
1200	-2.6	4.4	100.0				-1.3	4.9	100.0	2.4	-0.6			283.8	43.0
1230	-2.3	4.5	100.0				-1.0	5.0	100.0	2.8	-0.3			264.9	40.5
1300	-2.3	4.5	100.0				-0.7	5.0	100.0	3.0	-0.4			360.7	55.2
1330	-2.4	4.5	100.0				-0.8	4.9	100.0	3.1	-0.8			328.6	50.3
1400	-2.2	4.5	100.0				-0.5	5.0	100.0	3.8	-0.3			386.4	58.2
1430	-2.0	4.5	100.0				-0.3	5.0	100.0	4.0	-0.4			391.8	63.2
1500	-2.0	4.5	100.0				-0.1	4.7	97.2	4.2	-0.5			478.4	75.1
1530	-1.7	4.6	100.0				0.2	4.8	97.3	4.7	-0.4			471.1	76.4
1600	-1.5	4.6	100.0				0.3	4.8	97.1	5.2	-0.1			445.1	70.3
1630	-1.2	4.7	100.0				0.4	4.8	96.2	5.4	0.2			413.5	69.9
1700	-0.7	4.8	100.0				0.9	4.9	95.0	5.5	0.4			414.2	67.5
1730	-0.6	4.9	100.0				0.8	4.4	86.4	5.5	0.3			349.0	58.9
1800	-0.3	4.9	100.0				1.0	4.1	79.4	5.6	0.7			291.6	47.0
1830	-0.1	4.9	100.0				1.0	4.1	79.9	5.5	0.8			253.5	43.3
1900	-0.2	4.9	100.0				0.8	4.2	83.2	5.3	1.0			231.2	37.6
1930	-0.3	4.9	100.0				0.6	4.4	88.1	5.2	1.1			182.1	32.4
2000	-0.2	4.9	100.0				0.5	4.5	89.4	5.0	1.3			147.7	24.1
2030	-0.3	4.9	100.0				0.3	4.6	93.5	4.7	1.4			126.9	21.7
2100	-0.4	4.9	100.0				0.1	4.7	97.3	4.3	1.3			111.0	20.7
2130	-0.7	4.8	100.0				-0.2	5.0	100.0	4.0	1.3			94.7	15.3
2200	-0.8	4.8	100.0				-0.4	5.1	100.0	3.7	1.3			62.7	13.0
2230	-0.9	4.8	100.0				-0.6	5.2	100.0	3.5	1.5			41.8	6.7
2300	-0.8	4.8	100.0				-0.6	5.2	100.0	3.1	1.4			31.9	6.5
2330	-0.8	4.8	100.0				-0.7	5.3	100.0	2.8	1.3			20.6	5.6
Max	2.4	5.4	100.0				2.5	5.7	100.0	5.6	1.5			478.4	76.4
Min	-2.9	4.4	93.0				-1.6	4.1	79.4	0.8	-0.8			0.0	0.0
Ave	-0.9	4.7	99.3				-0.1	4.9	97.4	3.0	0.6			168.2	27.7
Sum														14.5	2.4

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
11.4	-2.1													349.3 NC
8.9	-3.1													
6.4	-3.2													349.2 NC
5.2	-4.2													
2.4	-6.0													349.3 NC
3.9	-8.3													
3.9	-9.5													349.6
2.1	-10.6													
1.7	-11.0													349.8 NC
4.4	-10.8													
7.2	-10.2			0.39										349.8 NC
8.4	-10.2			0.36										
16.2	-9.1			0.16										349.8 NC
24.8	-7.6			0.15										
35.0	-6.2			0.20										350.0 A
45.4	-4.6			0.16										
31.0	-5.7			0.18										350.0 A
95.3	-0.2			0.20										
102.2	5.2			0.17										350.1 A
175.6	15.0			0.17										
208.3	32.2			0.17										350.2 A
198.1	33.9			0.16										
244.4	37.8			0.16										350.2 A
262.3	39.7			0.17										
226.3	35.7			0.15										350.2 A
213.1	29.8			0.15										
287.2	40.6			0.15										350.1 A
253.9	49.8			0.15										
301.3	40.7			0.15										350.2 A
297.2	43.3			0.16										
353.5	55.9			0.16										350.1 A
353.2	51.0			0.16										
337.0	42.9			0.16										350.2 A
316.5	36.1			0.17										
319.5	34.0			0.16										350.1 A
275.7	31.2			0.17										
233.3	25.9			0.16										350.0 A
204.2	20.9			0.17										
182.2	16.0			0.16										350.0 A
145.2	10.1			0.18										
120.2	6.5			0.16										350.0 A
104.0	2.8			0.17										
87.0	-0.4			0.19										350.0 A
70.5	-3.6			0.16										
45.3	-7.4			0.21										350.0 A
26.7	-11.4			0.16										
13.6	-13.8			0.20										350.0 A
4.5	-15.4			0.27										
353.5	55.9			0.39										350.2
1.7	-15.4			0.15										349.2
130.7	11.7			0.18										349.9
11.3	1.0													

IBP site August 5

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-0.8	4.8	100.0				-0.8	5.0	100.0	2.4	1.3			17.0	8.2
030	-0.7	4.8	100.0				-0.7	5.0	100.0	2.3	1.4			8.7	4.5
100	-0.8	4.8	100.0				-0.8	5.0	100.0	1.9	1.2			4.2	0.7
130	-0.7	4.8	100.0				-0.7	5.1	100.0	1.7	1.1			0.4	1.1
200	-1.1	4.8	100.0				-0.9	5.5	100.0	1.2	0.8			0.0	0.0
230	-1.1	4.8	100.0				-1.0	5.5	100.0	1.0	0.8			0.0	0.0
300	-1.0	4.8	100.0				-0.9	5.1	100.0	0.9	0.8			0.0	0.0
330	-1.0	4.8	100.0				-0.9	5.0	100.0	0.8	0.7			0.0	0.0
400	-0.8	4.8	100.0				-0.7	5.0	100.0	0.7	0.6			0.3	0.0
430	-0.9	4.8	100.0				-0.8	7.1	100.0	0.7	0.5			3.6	0.5
500	-0.9	4.8	100.0				-0.9	5.0	100.0	0.7	0.5			10.6	2.8
530	-0.6	4.9	100.0				-0.5	5.2	100.0	0.7	0.6			13.9	2.7
600	-0.5	4.9	100.0				-0.4	5.1	100.0	0.4	0.3			18.7	5.0
630	-0.6	4.9	100.0				-0.5	5.1	100.0	0.3	0.2			32.2	7.1
700	-0.5	4.9	100.0				-0.3			0.2	0.2			65.8	14.9
730	-0.4	4.9	100.0				-0.2	5.0	100.0	0.1	0.1			65.6	11.7
800	-0.4	4.9	100.0				-0.1	4.9	100.0	0.1	0.0			68.9	13.0
830	-0.3	4.9	100.0				0.0	5.0	100.0	0.1	0.0			97.2	15.7
900	-0.3	4.7	98.8				0.1	5.2	100.0	0.1	-0.3			143.4	25.4
930	-0.2	4.8	99.9				0.2	5.3	100.0	0.3	-0.3			123.3	18.9
1000	-0.1	4.8	100.0				0.3	5.2	100.0	0.5	-0.2			97.5	14.0
1030	-0.1	4.9	100.0				0.4	5.2	100.0	0.7	-0.2			136.1	21.4
1100	0.0	4.7	97.0				0.7	5.1	99.9	0.7	-0.4			198.8	30.6
1130	0.1	4.6	93.6				0.9	5.0	97.5	0.8	-0.6			230.8	36.7
1200	0.1	4.6	94.0				0.9	5.0	97.8	1.1	-0.7			213.1	35.3
1230	0.2	4.6	95.1				0.9	5.1	98.8	1.5	-0.5			195.1	29.6
1300	0.3	4.8	98.0				1.0	5.2	100.0	1.8	-0.2			201.7	30.0
1330	0.6	4.7	93.8				1.6	5.2	95.6	1.7	-0.5			299.8	44.8
1400	0.2	4.8	97.1				1.2	5.2	98.2	1.9	-0.7			267.2	43.1
1430	0.5	4.9	97.5				1.6	5.3	98.3	2.3	-0.5			305.3	49.4
1500	0.7	4.8	95.6				1.9	5.3	95.6	2.7	-0.4			331.7	51.8
1530	0.7	4.8	94.9				1.8	5.2	95.7	2.9	-0.5			309.6	49.2
1600	0.9	4.8	93.6				2.0	5.3	95.0	3.2	-0.4			328.8	53.4
1630	0.9	4.9	94.7				2.0	5.3	95.6	3.4	-0.3			319.1	52.1
1700	0.9	4.8	93.9				2.0	5.3	95.8	3.6	-0.2			290.4	46.6
1730	1.0	4.9	94.6				1.9	5.3	97.0	4.0	0.1			240.7	38.8
1800	1.0	5.0	95.9				1.9	5.4	97.9	4.1	0.3			205.9	34.2
1830	1.1	5.0	96.2				1.9	5.4	97.6	4.1	0.4			203.5	34.8
1900	1.0	5.0	96.2				1.7	4.8	88.1	4.1	0.4			166.8	27.9
1930	0.8	5.0	97.1				1.3	5.3	100.0	4.1	0.6			91.5	16.0
2000	0.8	5.0	98.5				1.3	5.3	100.0	3.9	0.8			99.5	19.4
2030	0.5	5.0	100.0				1.1	4.5	87.4	3.7	0.8			88.8	16.0
2100	0.2	4.9	100.0				0.8	5.2	100.0	3.5	0.7			82.2	13.7
2130	0.1	4.9	100.0				0.6	5.2	100.0	3.3	0.8			62.6	12.8
2200	-0.1	4.8	100.0				0.3	5.1	100.0	3.1	0.8			51.2	9.2
2230	-0.2	4.8	100.0				0.1	5.1	100.0	2.9	0.8			48.5	9.1
2300	-0.4	4.8	100.0				-0.3	5.1	100.0	2.8	0.9			32.5	6.9
2330	-0.7	4.8	100.0				-0.7	5.0	100.0	2.5	1.2			18.7	4.9
Max	1.1	5.0	100.0				2.0	7.1	100.0	4.1	1.4			331.7	53.4
Min	-1.1	4.6	93.6				-1.0	4.5	87.4	0.1	-0.7			0.0	0.0
Ave	-0.1	4.8	98.3				0.4	5.2	98.5	1.9	0.3			120.6	20.1
Sum														10.4	1.7

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-48.4	-17.9													349.9 A
-54.7	-19.3													
-52.3	-17.8													349.9 A
-30.5	-16.5													
-3.8	-14.4													349.9 A
-4.1	-13.2													
-11.5	-12.7													349.9 A
-12.6	-12.1													
-11.3	-11.4													349.9 A
-10.2	-10.8			0.14										
-36.5	-10.7			0.26										349.8 A
-3.7	-10.0			0.19										
14.8	-9.0			0.27										349.6 A
15.7	-7.9			0.22										
42.5	-6.7			0.23										349.3 D
49.1	-4.8			0.18										
59.8	-1.4			0.19										I
86.7	2.4			0.16										
119.7	11.9			0.18										349.0
107.3	13.2			0.15										
87.0	11.8			0.14										348.9 NC
123.8	12.2			0.16										
169.9	23.6			0.15										348.9 NC
192.2	30.9			0.16										
180.6	32.1			0.17										348.8 NC
169.2	27.4			0.15										
180.7	20.1			0.15										348.6 A
255.2	39.1			0.15										
229.3	37.0			0.16										348.6 A
264.7	36.5			0.16										
280.7	38.6			0.16										348.4 A
260.0	39.3			0.16										
276.1	36.2			0.16										348.4 NC
266.3	36.9			0.16										
241.3	34.5			0.16										348.3 NC
204.0	28.0			0.16										
173.9	23.2			0.17										348.4 NC
173.8	21.3			0.17										
140.4	18.9			0.17										348.7
75.9	9.4			0.17										
86.0	4.7			0.20										348.7 NC
75.4	5.4			0.18										
64.1	3.4			0.17										348.6 NC
47.0	1.5			0.20										
34.2	-1.5			0.18										348.7 NC
22.4	-4.4			0.19										
-7.4	-9.7			0.21										349.0
-45.4	-17.8			0.26										
280.7	39.3			0.27										349.9
-54.7	-19.3			0.14										348.3
92.4	7.7			0.18										349.0
8.0	0.7													

IBP site August 6

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-0.6	4.8	100.0				-0.7	5.0	100.0	2.3	1.3			10.7	2.3
030	-0.6	4.8	100.0				-0.6	5.0	100.0	1.9	1.2			5.4	0.9
100	-0.8	4.7	100.0				-0.9	5.0	100.0	1.5	1.0			1.3	1.9
130	-1.2	4.9	100.0				-1.3	4.9	100.0	1.4	0.9			0.3	1.5
200	-0.7	4.7	100.0				-0.8	5.0	100.0	1.3	0.9			0.0	0.0
230	-1.2	4.7	100.0				-1.2	4.9	100.0	1.0	0.7			0.0	0.0
300	-1.4	4.7	100.0				-1.4	4.8	100.0	0.8	0.6			0.0	0.0
330	-1.3	4.7	100.0				-1.3	4.8	100.0	0.7	0.7			0.0	0.0
400	-1.5	4.7	100.0				-1.3	4.8	100.0	0.5	0.5			0.6	0.8
430	-1.7	4.6	100.0				-1.5	4.8	100.0	0.3	0.3			2.2	0.9
500	-1.6	4.6	100.0				-1.4	4.8	100.0	0.1	0.1			5.3	1.8
530	-1.2	4.7	100.0				-1.0	4.8	100.0	0.0	0.0			7.7	2.1
600	-0.6	4.8	100.0				-0.5	4.8	100.0	-0.2	-0.1			13.6	3.3
630	-0.1	4.7	97.8				-0.1	5.0	100.0	-0.4	-0.3			19.1	3.8
700	0.2	5.0	100.0				0.3	5.0	100.0	-0.5	-0.5			40.4	7.1
730	0.0	5.0	100.0				0.4	0.6	12.8	-0.6	-0.5			73.4	12.2
800	0.0	4.9	100.0				0.3	4.6	93.0	-0.5	-0.5			78.2	12.2
830	0.4	5.1	100.0							-0.4	-0.3			95.1	14.8
900	0.6	5.0	100.0				0.9	5.0	96.4	-0.4	-0.4			119.9	19.1
930	0.6	5.1	100.0				1.3	4.1	78.2	-0.1	-0.5			155.5	26.0
1000	0.5	5.0	100.0				1.6	5.4	99.3	0.1	-0.6			238.0	41.7
1030	0.1	4.8	99.4				1.2	5.2	99.5	0.5	-0.7			256.1	44.7
1100	-0.8	4.7	100.0				0.2	5.0	100.0	0.4	-1.4			274.8	45.8
1130	0.1	4.9	100.0				0.9	5.2	100.0	1.7	-0.4			180.5	27.6
1200	0.7	4.9	97.1				1.6	5.3	97.9	1.9	-0.4			213.6	32.5
1230	0.8	4.9	96.3				1.6	5.3	97.9	2.0	-0.5			191.7	30.2
1300	0.9	4.9	95.9				1.8	5.3	97.3	2.2	-0.4			211.7	34.1
1330	1.1	4.9	95.2				1.9	5.3	96.7	2.3	-0.4			238.9	37.7
1400	1.1	4.9	94.2				2.1	5.4	95.9	2.4	-0.5			288.9	46.6
1430	1.1	4.9	94.6				1.9	5.3	96.6	2.8	-0.3			204.3	33.6
1500	1.6	4.9	90.3				2.4	5.3	93.2	3.0	-0.1			203.4	31.5
1530	1.5	4.9	91.4				2.2	5.3	94.7	3.0	-0.2			179.4	27.8
1600	1.5	4.9	91.6				2.1	5.3	95.5	3.0	0.0			163.6	23.5
1630	1.4	5.0	93.1				2.0	5.3	96.6	3.1	0.2			123.6	19.8
1700	1.4	4.9	93.0				1.8	5.3	97.5	3.1	0.3			100.4	16.1
1730	1.3	5.0	93.6				1.8	5.3	97.4	2.9	0.3			120.3	19.5
1800	1.3	5.0	94.0				1.8	5.3	96.2	2.8	0.2			146.0	21.7
1830	1.1	4.9	94.7				1.6	5.3	97.5	2.7	0.2			129.8	21.2
1900	1.1	5.0	95.6				1.7	5.3	97.1	2.6	0.2			135.2	22.4
1930	1.1	5.0	95.5				1.6	5.3	98.0	2.6	0.1			120.1	19.3
2000	1.1	5.1	97.3				1.4	5.3	100.0	2.7	0.4			61.6	10.3
2030	1.2	5.1	97.9				1.5	5.4	100.0	2.6	0.4			56.4	11.4
2100	1.0	5.1	99.0				1.4	5.4	100.0	2.4	0.4			49.7	7.1
2130	0.9	5.2	100.0				1.2	5.4	100.0	2.3	0.4			36.2	5.9
2200	0.9	5.2	100.0				1.1	5.4	100.0	2.2	0.5			37.4	8.5
2230	0.8	5.2	100.0				1.0	5.4	100.0	2.1	0.4			35.3	7.4
2300	0.7	5.2	100.0				0.9	5.4	100.0	2.0	0.5			21.9	6.2
2330	0.6	5.1	100.0				0.8	5.3	100.0	1.9	0.5			15.2	3.6
Max	1.6	5.2	100.0				2.4	5.4	100.0	3.1	1.3			288.9	46.6
Min	-1.7	4.6	90.3				-1.5	0.6	12.8	-0.6	-1.4			0.0	0.0
Ave	0.3	4.9	97.9				0.7	5.0	96.3	1.5	0.1			97.1	16.0
Sum														8.4	1.4

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-56.6	-17.7			0.22										348.9 NC
-45.5	-15.5			0.18										
-53.3	-14.7													348.8 NC
-64.1	-13.8													
-56.0	-13.0													348.9 NC
-53.2	-12.2													
-42.6	-11.5													348.9 NC
-31.8	-10.8													
-17.6	-10.2													348.9 NC
-1.4	-9.5													
2.7	-8.9			0.34										349.8 V
13.9	-8.3			0.27										
23.3	-7.7			0.24										349.7 V
28.0	-7.3			0.20										
46.2	-6.8			0.18										349.0
71.5	-6.2			0.17										
74.2	-3.8			0.16										349.1 NC
79.0	-1.3			0.16										
86.8	3.6			0.16										349.1 NC
128.8	15.8			0.17										
188.4	28.9			0.18										349.0 NC
183.8	37.4			0.17										
233.0	41.0			0.17										349.3 D
156.6	33.1			0.15										
186.8	29.7			0.15										348.8 D
164.8	29.0			0.16										
184.4	26.2			0.16										349.3 D
206.9	29.2			0.16										
247.8	34.5			0.16										348.9
176.2	29.3			0.16										
175.2	23.4			0.16										348.8 NC
152.6	23.4			0.15										
140.4	19.4			0.14										348.6 A
106.2	12.8			0.16										
88.6	8.4			0.16										348.4 A
100.9	8.8			0.16										
123.1	12.8			0.15										348.4 A
111.7	12.7			0.16										
115.9	12.6			0.17										348.3 A
99.4	13.0			0.16										
53.3	4.1			0.17										348.3 A
50.3	1.4			0.20										
48.1	1.9			0.14										348.3 NC
36.9	0.7			0.16										
39.1	-0.4			0.23										347.9
35.6	0.5			0.21										
24.9	-2.0			0.28										347.8 NC
14.5	-3.6			0.24										
247.8	41.0			0.34										349.8
-64.1	-17.7			0.14										347.8
74.5	6.4			0.18										348.8
6.4	0.6													

IBP site August 7

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	0.2	5.0	100.0				0.4	5.2	100.0	1.8	0.6			6.0	2.6
030	-0.1	4.9	100.0				0.1	5.2	100.0	1.6	0.7			2.7	1.7
100	-0.1	5.1	100.0				0.0	5.2	100.0	1.4	0.6			0.0	0.0
130	-0.3	4.9	100.0				-0.2	5.1	100.0	1.2	0.5			0.0	0.0
200	-0.4	4.9	100.0				-0.2	5.1	100.0	1.1	0.4			0.0	0.0
230	-0.4	4.8	100.0				-0.3	5.1	100.0	0.9	0.4			0.0	0.0
300	-0.5	4.8	100.0				-0.4	5.1	100.0	0.8	0.3			0.0	0.0
330	-0.7	4.8	100.0				-0.5	5.1	100.0	0.7	0.3			0.0	0.0
400	-0.8	4.8	100.0				-0.6	5.1	100.0	0.5	0.2			0.0	0.0
430	-0.8	4.7	100.0				-0.7	5.0	100.0	0.5	0.1			1.4	1.0
500	-0.8	4.7	100.0				-0.7	5.0	100.0	0.4	0.1			5.3	0.8
530	-0.8	4.7	100.0				-0.6	5.0	100.0	0.4	0.1			8.6	2.7
600	-0.7	4.7	100.0				-0.5	5.0	100.0	0.2	-0.1			11.3	2.4
630	-0.7	4.8	100.0				-0.5	5.0	100.0	0.1	-0.1			18.5	3.9
700	-0.7	4.8	100.0				-0.5	5.1	100.0	0.1	-0.2			23.3	5.1
730	-0.7	4.8	100.0				-0.4	5.1	100.0	0.1	-0.2			28.2	5.0
800	-0.7	4.8	100.0				-0.4	5.1	100.0	0.1	-0.2			41.2	7.1
830	-0.7	4.8	100.0				-0.3	5.1	100.0	0.1	-0.3			56.3	10.3
900	-0.6	4.8	100.0				-0.2	5.1	100.0	0.2	-0.3			55.4	9.0
930	-0.6	4.8	100.0				-0.2	5.2	100.0	0.3	-0.4			59.6	8.6
1000	-0.5	4.8	100.0				-0.2	5.2	100.0	0.3	-0.3			56.1	7.9
1030															
1100	-0.4	4.8	100.0				0.0	5.1	100.0	0.4	-0.3			56.6	8.0
1130	-0.5	4.8	100.0				0.0	5.1	100.0	0.4	-0.4			60.4	8.9
1200	-0.4	4.8	100.0				0.2	5.1	100.0	0.4	-0.4			89.3	13.4
1230	-0.4	4.8	100.0				0.4	5.1	100.0	0.4	-0.6			139.4	20.6
1300	-0.5	4.7	100.0				0.4	5.1	100.0	0.6	-0.8			169.5	24.7
1330	-0.5	4.7	100.0				0.6	5.1	100.0	0.8	-0.9			219.1	34.2
1400	-0.6	4.7	100.0				0.4	5.0	100.0	1.1	-1.0			190.3	29.1
1430	-0.5	4.7	100.0				0.5	5.1	100.0	1.5	-0.8			164.6	23.4
1500	-0.3	4.7	99.6				0.8	5.1	99.7	1.8	-0.7			226.5	34.7
1530	-0.4	4.7	99.8				0.9	5.1	98.6	1.9	-1.0			260.0	39.7
1600	-0.4	4.7	99.0				1.3	5.1	96.1	2.1	-1.2			399.5	64.8
1630	-0.8	4.6	100.0				0.9	5.1	99.2	2.4	-1.4			349.1	59.6
1700	-0.6	4.7	100.0				0.9	5.1	99.4	3.2	-1.0			258.8	41.8
1730	-0.2	4.8	99.9				1.1	5.2	99.0	3.7	-0.5			236.7	38.9
1800	0.0	4.8	98.8				1.2	5.2	98.2	3.9	-0.2			233.4	37.2
1830	0.0	4.8	99.3				1.1	5.2	99.6	4.0	0.0			195.7	31.7
1900	-0.2	4.9	100.0				0.8	5.2	100.0	4.1	0.1			152.6	25.6
1930	-0.2	4.9	100.0				0.7	5.1	100.0	4.0	0.3			139.9	23.1
2000	-0.4	4.9	100.0				0.3	5.3	100.0	3.9	0.4			97.6	16.9
2030	-0.3	4.9	100.0				0.2	5.2	100.0	3.8	0.6			78.8	13.5
2100	-0.4	4.9	100.0				0.0	5.2	100.0	3.6	0.6			56.7	10.7
2130	-0.5	4.8	100.0				-0.1	5.1	100.0	3.3	0.7			42.6	7.5
2200	-0.6	4.8	100.0				-0.2	5.1	100.0	3.0	0.7			24.5	4.4
2230	-0.6	4.8	100.0				-0.3	5.1	100.0	2.7	0.7			20.8	3.9
2300	-0.7	4.8	100.0				-0.4	5.0	100.0	2.4	0.7			13.2	3.9
2330	-0.8	4.8	100.0				-0.6	5.0	100.0	2.2	0.6			8.2	1.7
Max	0.2	5.1	100.0				1.3	5.3	100.0	4.1	0.7			399.5	64.8
Min	-0.8	4.6	98.8				-0.7	5.0	96.1	0.1	-1.4			0.0	0.0
Ave	-0.5	4.8	99.9				0.1	5.1	99.8	1.6	-0.1			90.6	14.7
Sum														7.8	1.3

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2	B-CO2 ppm
6.4	-6.5			0.42										347.8 NC
4.5	-8.1													
4.2	-8.1													347.7 NC
2.1	-8.1													
0.4	-8.0													348.1 D
-4.1	-8.3													
-1.6	-8.1													348.9 A
3.2	-7.1													
3.6	-6.8													348.8 A
1.0	-6.9													
0.3	-6.7			0.16										348.3
9.2	-6.0			0.31										
15.2	-4.6			0.22										348.1 NC
22.6	-3.3			0.21										
26.5	-2.2			0.22										348.0 NC
30.6	-1.1			0.18										
41.7	1.1			0.17										348.0 NC
54.7	3.7			0.18										
52.7	5.3			0.16										347.9 NC
57.2	5.8			0.14										
53.2	6.2			0.14										347.8 NC
53.6	5.7			0.14									386.1	347.7 NC
56.8	5.9			0.15									383.0	
80.8	9.6			0.15									380.9	347.5 NC
122.6	17.5			0.15									378.5	
144.3	25.2			0.15									375.2	347.5 NC
189.0	28.1			0.16									373.0	
161.6	30.5			0.15									370.4	347.5 A
140.7	22.7			0.14									368.6	
191.8	28.3			0.15									365.7	347.3 A
216.5	34.6			0.15									365.1	
315.7	46.5			0.16									363.2	347.3 NC
282.5	51.2			0.17									360.8	
211.7	38.7			0.16									359.0	347.3 NC
196.1	31.0			0.16									358.5	
192.1	28.7			0.16									358.7	347.2 NC
159.1	24.1			0.16									359.2	
123.5	17.9			0.17									359.3	347.3 NC
112.0	14.8			0.17									360.3	
80.7	9.3			0.17									361.2	347.3 NC
61.9	5.1			0.17									362.2	
45.3	1.8			0.19									363.2	347.3 NC
29.7	-2.2			0.17									366.0	
21.8	-4.8			0.18									367.7	347.4 NC
15.1	-6.6			0.19									368.6	
8.2	-7.9			0.30									369.6	347.4 NC
4.2	-9.0			0.21									370.7	
315.7	51.2			0.42									386.1	348.9
-4.1	-9.0			0.14									358.5	347.2
76.6	7.8			0.18									367.5	347.7
6.6	0.7													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-0.8	4.8	100.0				-0.6	5.1	100.0	1.9	0.6			5.8	0.4
030	-0.8	4.8	100.0				-0.7	5.0	100.0	1.7	0.5			2.4	1.7
100	-0.9	4.8	100.0				-0.7	5.0	100.0	1.5	0.5			0.0	0.0
130	-1.0	4.8	100.0				-0.9	5.0	100.0	1.4	0.5			0.0	0.0
200	-1.1	4.8	100.0				-1.0	5.1	100.0	1.2	0.4			0.0	0.0
230	-1.3	4.7	100.0				-1.2	5.0	100.0	1.1	0.5			0.0	0.0
300	-1.6	4.6	100.0				-1.3	4.8	100.0	1.0	0.5			0.0	0.0
330	-2.0	4.6	100.0				-1.7	4.8	100.0	0.8	0.5			0.0	0.0
400	-2.2	4.5	100.0				-2.0	4.8	100.0	0.7	0.5			0.0	0.0
430	-2.3	4.5	100.0				-2.2	4.7	100.0	0.7	0.6			1.3	2.0
500	-2.0	4.5	100.0				-1.8	4.8	100.0	0.5	0.4			4.1	0.8
530	-2.2	4.5	100.0				-1.9	4.8	100.0	0.4	0.3			9.2	2.8
600	-2.2	4.5	100.0				-1.9	4.8	100.0	0.2	0.2			16.3	4.1
630	-2.1	4.5	100.0				-1.8	4.8	100.0	0.0	0.0			25.5	7.7
700	-1.9	4.6	100.0				-1.5	4.9	100.0	-0.1	-0.1			27.3	6.1
730	-1.6	4.7	100.0				-1.2	4.9	100.0	-0.2	-0.3			34.1	8.0
800	-1.5	4.7	100.0				-1.1	4.9	100.0	-0.3	-0.4			37.8	9.0
830	-1.3	4.7	100.0				-0.9	5.0	100.0	-0.4	-0.5			46.0	9.8
900	-1.1	4.7	100.0				-0.8	5.0	100.0	-0.3	-0.4			39.7	9.5
930	-1.0	4.8	100.0				-0.7	5.0	100.0	-0.3	-0.5			43.3	8.4
1000	-0.9	4.8	100.0				-0.5	5.1	100.0	-0.2	-0.5			59.3	10.3
1030	-0.8	4.8	100.0				-0.4	5.2	100.0	-0.1	-0.6			113.2	17.6
1100	-0.8	4.8	100.0				-0.1	5.2	100.0	-0.1	-0.8			170.9	26.3
1130	-0.8	4.8	100.0				0.2	5.2	100.0	0.2	-1.1			187.3	28.5
1200	-0.6	4.8	100.0				0.3	5.3	100.0	0.6	-1.1			223.3	34.7
1230	-0.6	4.8	100.0				0.4	5.2	100.0	1.0	-1.1			218.4	34.5
1300	-0.4	4.9	100.0				0.6	5.2	100.0	1.4	-1.0			186.9	29.3
1330	-0.1	5.0	100.0				1.1	5.3	100.0	1.7	-0.8			274.0	43.5
1400	0.0	4.8	100.0				1.8	5.2	94.9	1.7	-1.4			432.4	69.7
1430	-0.2	4.7	99.1				1.0	5.1	98.4	2.3	-1.4			247.5	40.7
1500	0.5	4.9	96.9				1.7	5.2	96.2	3.1	-0.8			274.4	42.1
1530	0.6	5.0	98.4				1.6	5.3	98.6	3.3	-0.5			202.9	32.1
1600	0.8	5.0	97.8				1.7	5.3	98.1	3.5	-0.2			161.9	25.8
1630	1.1	5.0	96.8				2.0	5.3	96.6	3.6	-0.1			166.3	26.6
1700	1.2	5.0	96.3				2.2	5.4	95.1	3.4	-0.2			231.5	36.5
1730	0.8	5.0	97.9				1.9	5.3	97.0	3.3	-0.3			238.8	39.3
1800	0.8	5.1	99.3				1.7	5.4	99.4	3.6	-0.1			195.3	33.0
1830	0.9	5.1	99.2				1.7	5.4	99.1	3.8	0.1			158.1	25.8
1900	1.1	5.2	99.6				1.8	5.4	99.9	3.8	0.3			132.2	20.8
1930	1.5	5.2	97.2				2.2	5.5	98.0	3.7	0.4			115.0	17.7
2000															
2030															
2100															
2130															
2200															
2230															
2300															
2330															
Max	1.5	5.2	100.0				2.2	5.5	100.0	3.8	0.6			432.4	69.7
Min	-2.3	4.5	96.3				-2.2	4.7	94.9	-0.4	-1.4			0.0	0.0
Ave	-0.7	4.8	99.5				-0.1	5.1	99.3	1.4	-0.2			107.1	17.6
Sum														7.7	1.3

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm^2	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2	B-CO2 ppm
5.1	-8.4												371.9	347.3 NC
-1.6	-8.5												373.2	
-4.5	-9.0												373.5	347.2 NC
-6.2	-9.6												373.5	
-9.8	-10.1												374.4	347.1 NC
-19.5	-10.7												374.9	
-12.7	-9.5												376.1	347.1 NC
-15.7	-9.0												377.7	
-31.7	-8.8												378.8	347.0 NC
-39.6	-8.5												380.7	
-14.4	-8.0			0.21									381.0	347.0 NC
-8.2	-7.5			0.30									381.7	
2.5	-7.1			0.25									381.3	346.8 NC
18.3	-6.6			0.30									379.8	
29.7	-6.1			0.22									379.3	347.0 NC
39.7	-5.4			0.23									378.2	
46.7	-4.3			0.24									377.3	346.5 D
56.6	-1.8			0.21									375.6	
49.8	1.1			0.24									374.5	346.2 D
51.9	2.4			0.19									374.3	
68.3	5.2			0.17									373.7	345.6 D
119.7	13.2			0.16									373.9	
159.6	26.5			0.15									371.5	345.1 A
165.5	32.9			0.15									370.4	
192.9	37.4			0.16									367.1	344.9 A
187.9	35.2			0.16									365.0	
161.5	28.3			0.16									363.6	344.9 A
235.2	32.0			0.16									362.5	
351.6	57.8			0.16									361.5	345.1 A
204.1	41.3			0.16									359.9	
227.9	36.5			0.15									359.0	I
170.8	29.6			0.16									359.9	
139.5	23.2			0.16									360.1	345.6 A
145.8	19.0			0.16									359.6	
198.4	27.3			0.16									359.7	345.7 A
202.8	29.8			0.16									358.8	
168.8	24.7			0.17									358.6	345.6 A
137.5	20.1			0.16									358.8	
118.7	13.6			0.16									359.6	346.0 A
103.7	12.4			0.15									361.8	
														346.1 A
														345.7 A
														345.9 A
														346.4 D
351.6	57.8			0.30									381.7	347.3
-39.6	-10.7			0.15									358.6	344.9
89.9	10.3			0.19									370.1	346.2
6.5	0.7													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000															
030															
100	-1.2	4.3	96.2	-1.2	4.6	100.0	-0.8	4.4	97.1	7.5	6.6			19.9	26.3
130	-1.1	4.9	100.0	-0.9	4.7	100.0	-1.0	4.2	94.0	7.0	6.0			25.2	22.3
200	-1.0	4.3	96.4	-0.9	4.9	100.0	-0.8	4.4	97.7	6.3	5.8			23.0	27.6
230	-1.0	4.6	100.0	-0.7	4.4	94.6	-0.4	3.9	83.6	6.2	5.5			21.7	25.5
300	-1.1	4.8	100.0	-0.9	4.6	100.0	-0.5	4.2	91.0	6.4	5.7			23.4	27.0
330	-0.9	4.5	98.4	-0.5	4.6	99.9	-0.4	4.3	92.5	6.2	5.7			22.9	24.9
400	-0.4	4.2	88.5	-0.4	4.7	99.5	-0.6	4.6	99.5	5.9	5.4			21.9	27.5
430	-0.7	4.3	92.8	-0.5	4.4	94.4	-0.4	4.2	89.7	5.8	5.2			23.2	27.4
500	-0.9	4.7	100.0	-1.0	4.3	96.6	-1.0	4.8	100.0	6.2	5.8			26.0	21.9
530	-1.1	4.5	100.0	-1.1	4.4	98.5	-0.8	4.2	92.3	5.7	5.4			26.1	27.6
600	-0.7	4.2	92.1	-1.1	4.4	98.0	-0.6	4.3	93.7	5.8	5.4			31.2	27.6
630	-1.0	4.3	95.6	-1.1	4.6	100.0	-1.1	4.5	100.0	6.0	5.8			35.0	29.4
700	-1.3	4.5	100.0	-1.1	4.6	100.0	-0.8	4.3	94.5	5.8	5.6			54.9	27.8
730	-1.1	4.4	97.6	-0.9	4.6	100.0	-0.5	4.2	90.5	5.5	5.1			68.1	31.2
800	-0.9	4.3	94.4	-1.0	4.4	98.0	-0.6	4.4	95.4	5.8	5.6			81.4	38.1
830	-0.7	4.4	95.9	-0.6	4.4	95.6	-0.6	4.3	92.8	6.1	5.1			96.5	33.7
900	-0.5	4.1	87.3	-0.5	4.3	93.0	-0.5	4.7	100.0	6.2	5.5			61.8	35.7
930	-0.7	4.5	98.4	-0.5	4.4	95.0	-0.2	4.8	100.0	6.1	5.3			114.3	41.6
1000	-0.6	4.3	92.6	-0.3	4.4	91.9	-0.2	4.3	89.6	6.1	5.4			102.4	38.0
1030	-0.8	4.4	95.4	-0.6	4.4	95.4	-0.4	4.4	93.1	6.7	5.3			112.5	39.3
1100															
1130															
1200															
1230															
1300															
1330															
1400															
1430															
1500															
1530															
1600															
1630															
1700															
1730															
1800															
1830															
1900															
1930															
2000															
2030															
2100															
2130															
2200															
2230															
2300															
2330															
Max	-0.4	4.9	100.0	-0.3	4.9	100.0	-0.2	4.8	100.0	7.5	6.6			114.3	41.6
Min	-1.3	4.1	87.3	-1.2	4.3	91.9	-1.1	3.9	83.6	5.5	5.1			19.9	21.9
Ave	-0.9	4.4	96.1	-0.8	4.5	97.5	-0.6	4.4	94.3	6.2	5.6			49.6	30.0
Sum														1.8	1.1

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
														346.1 A
11.5	10.1	-65.0			4.33	3.17	2.18	292	0.40	0.25	-0.013	4.13	448.5	346.0 A
10.0	10.8	-70.7			4.66	3.42	2.44	288	0.79	0.29	-0.004	5.69	418.3	
9.5	11.1	0.0			4.59	3.44	2.29	283	0.40	0.26	-0.005	3.94	394.0	346.1 A
9.1	11.5	0.0			4.17	3.00	2.09	286	1.53	0.30	-0.012	7.09	382.6	
8.4	11.5	0.0			3.85	2.80	1.83	280	1.25	0.26	-0.015	5.62	372.6	346.3
7.8	12.1	0.0			3.91	2.72	1.94	281	1.50	0.27	-0.015	6.02	365.8	
5.2	12.5	0.0			3.50	2.56	1.78	281	1.16	0.23	0.008	4.56	362.9	346.1 V
8.1	13.2	0.0			4.11	3.12	2.26	269	0.20	0.21	-0.011	3.57	357.0	
10.7	12.2	0.0			5.21	3.87	2.42	273	0.62	0.32	0.001	4.69	350.6	345.7 A
13.5	12.8	0.0			5.25	3.66	2.62	278	1.33	0.36	-0.006	7.28	350.6	
16.1	13.9	0.0			5.15	3.69	2.60	279	1.23	0.35	-0.002	6.94	347.8	345.7 A
19.6	13.5	0.0			5.10	3.57	2.65	279	1.03	0.33	0.002	5.58	349.3	
30.5	15.5	0.0		0.51	5.14	3.91	2.68	272	0.30	0.28	-0.010	4.73	350.0	345.3 A
45.1	19.3	0.0		0.46	5.37	4.16	2.81	270	0.32	0.30	-0.010	5.35	347.3	
56.5	21.1	0.0		0.47	5.99	4.53	3.05	274	0.36	0.34	-0.005	5.46	348.0	345.1 A
68.6	23.9	100.0		0.35	6.23	4.48	3.01	277	0.92	0.40	-0.002	7.19	345.7	
62.4	23.5	55.5		0.58	5.73	4.18	2.89	281	0.43	0.33	-0.001	5.16	341.6	345.5 D
82.7	26.4	46.7		0.36	5.39	3.90	2.53	278	0.63	0.33	-0.006	5.36	340.2	
74.5	27.8	57.6		0.37	5.61	4.10	2.76	279	0.71	0.34	-0.006	5.94	340.2	345.8 D
81.9	26.8	41.6		0.35	5.65	4.16	2.77	283	0.47	0.33	-0.005	5.12	342.7	
														I
														346.4
														346.4 NC
														345.8 A
														345.6 A
														345.6 A
														345.8 A
														346.2 D
														346.9 D
														347.2 D
														347.5 A
														347.4 NC
														347.3 NC
82.7	27.8	100.0		0.58	6.23	4.53	3.05	292	1.53	0.40	0.008	7.28	448.5	347.5
5.2	10.1	-70.7		0.35	3.50	2.56	1.78	269	0.20	0.21	-0.015	3.57	340.2	345.1
31.6	16.5	8.3		0.43	4.95	3.62	2.48	279	0.78	0.30	-0.006	5.47	362.8	346.2
1.1	0.6													

IBP site August 12

Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000															
030															
100															
130															
200															
230															
300															
330															
400															
430															
500															
530															
600															
630															
700															
730															
800															
830															
900															
930															
1000															
1030															
1100															
1130															
1200															
1230															
1300															
1330															
1400															
1430															
1500															
1530															
1600															
1630															
1700															
1730															
1800															
1830															
1900	-0.7	3.9	84.2	-0.8	3.9	85.3	-0.5	3.7	78.1	3.6	0.8			135.1	20.0
1930	-0.5	3.8	80.3	-0.8	4.1	90.1	-0.7	3.8	82.6	1.5	-1.0			137.0	23.3
2000	-0.7	3.9	84.6	-0.7	3.8	82.5	-0.8	3.8	83.2	0.9	-1.5			109.5	22.2
2030	-0.9	3.9	86.5	-1.2	4.2	93.9	-0.6	3.5	76.0	2.6	0.5			97.8	16.0
2100	-1.0	4.3	94.9	-1.2	4.2	94.2	-0.8	3.7	81.5	4.7	2.7			65.6	13.0
2130	-0.6	4.4	95.6	-0.5	3.7	79.3	-0.7	4.2	91.3	1.4	-0.3			59.8	14.1
2200	-0.7	4.6	99.1	-0.5	4.1	88.0	-0.6	4.5	97.8	0.5	-1.0			53.1	10.9
2230	-0.9	4.0	88.7	-1.3	4.2	94.5	-1.1	3.9	88.1	0.3	-1.0			34.4	7.2
2300	-1.5	4.2	96.6	-1.6	4.1	96.0	-1.9	4.2	99.1	0.3	-0.7			27.5	6.8
2330	-1.9	3.8	90.8	-1.6	3.9	91.1	-1.8	4.3	100.0	0.4	-0.3			13.5	3.8
Max	-0.5	4.6	99.1	-0.5	4.2	96.0	-0.5	4.5	100.0	4.7	2.7			137.0	23.3
Min	-1.9	3.8	80.3	-1.6	3.7	79.3	-1.9	3.5	76.0	0.3	-1.5			13.5	3.8
Ave	-0.9	4.1	90.1	-1.0	4.0	89.5	-0.9	4.0	87.8	1.6	-0.2			73.3	13.7
Sum														1.3	0.2

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
														347.8 NC
														347.8 NC
														347.8 NC
														347.6 NC
														347.6 NC
														348.0 V
														348.4 A
														348.2 A
														348.3 A
														347.8 D
														I
														347.3
														347.3 NC
														347.1 A
														347.5
														347.7 NC
														347.9 NC
														347.9 NC
														347.8 NC
111.8	8.3			0.15	6.85	5.22	3.78	224		4.93	-0.003	5.06		347.8 NC
110.6	5.3			0.17	6.54	4.90	3.29	228		9.80	0.002	5.39		
86.8	4.3			0.20	5.90	4.34	3.10	226		9.80	0.003	4.34		347.8 NC
71.8	2.8			0.16	5.57	3.97	2.90	227		2.05	-0.006	4.33		
50.4	-0.8			0.20	5.16	3.83	2.69	216	0.35	0.28	-0.008	3.51		347.7 NC
42.0	-0.7			0.24	4.28	3.28	2.21	211	0.38	0.24	0.004	2.49		
19.7	-4.5			0.21	4.81	3.58	2.52	224	0.30	0.26	-0.002	3.82		347.7 NC
-17.0	-12.9			0.21	5.41	3.93	2.68	226	0.47	0.32	0.004	4.78		
-40.0	-15.2			0.25	6.18	4.34	2.92	227	1.66	0.44	0.005	7.83		347.9 NC
-53.7	-14.5			0.28	6.67	4.93	3.41	232	0.60	0.40	-0.001	6.51		
111.8	8.3			0.28	6.85	5.22	3.78	232	1.66	9.80	0.005	7.83		348.4
-53.7	-15.2			0.15	4.28	3.28	2.21	211	0.30	0.24	-0.008	2.49		347.1
38.2	-2.8			0.21	5.74	4.23	2.95	224	0.63	2.85	0.000	4.80		347.8
0.7	-0.1													

IBP site August 13

Time h	Ta1 C 200cm	AH1 g/m3	RH1 %	Ta2 C 112cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-1.8	4.0	93.1	-1.6	4.0	91.8	-1.8	4.2	99.7	0.5	-0.1			8.1	3.0
030	-1.9	3.8	89.7	-1.5	3.7	86.1	-1.8	4.1	97.4	0.3	-0.1			0.0	0.0
100	-2.0	3.9	91.6	-1.7	3.9	91.9	-1.9	4.0	94.7	0.1	-0.1			0.0	0.0
130	-1.9	3.8	90.0	-1.5	3.9	90.4	-1.9	4.0	95.0	0.5	0.4			0.0	0.0
200	-1.7	4.3	99.3	-1.7	4.5	100.0	-1.9	4.2	100.0	0.2	0.2			0.0	0.0
230	-1.0	3.6	78.8	-1.6	4.2	97.2	-1.7	4.1	96.5	0.2	0.3			0.0	0.0
300	-0.9	3.4	75.9	-1.0	3.9	86.8	-1.0	4.3	95.9	-0.1	0.1			0.0	0.0
330	-0.7	3.6	78.1	-0.7	4.2	92.2	-0.7	4.5	98.3	-0.1	0.2			0.0	0.0
400	-0.6	4.2	90.2	-0.8	4.5	97.5	-0.8	4.4	97.1	-0.2	0.1			0.0	0.0
430	-0.4	4.2	88.8	-0.5	4.5	96.3	-0.8	4.6	99.8	0.0	0.3			0.0	0.0
500	-0.6	4.4	96.0	-0.3	4.3	91.6	-0.5	4.6	98.3	-0.1	0.1			0.0	0.0
530	-0.6	4.5	97.4	-0.2	4.6	97.1	-0.4	4.8	100.0	-0.2	0.1			5.4	3.2
600	-0.5	4.4	94.0	-0.3	4.5	95.1	-0.4	4.6	97.6	-0.4	-0.1			4.5	2.7
630	-0.6	3.6	78.6	-0.5	4.4	93.8	-0.8	4.8	100.0	-0.5	-0.2			11.3	3.5
700	-0.8	3.6	78.0	-0.9	4.5	99.2	-0.9	4.5	98.9	-0.4	-0.1			25.4	7.2
730	-0.5	3.9	83.8	-0.7	4.6	99.9	-0.8	4.8	100.0	-0.9	-0.7			40.8	4.8
800	-0.6	4.2	89.9	-0.2	4.5	95.5	-0.4	4.5	95.8	-1.0	-0.7			62.5	10.9
830	-0.5	4.6	99.4	-0.3	4.8	100.0	-0.7	4.8	100.0	-0.7	-0.5			82.7	13.9
900	-0.6	4.8	100.0	-0.3	4.3	90.3	-0.4	4.2	89.5	-0.8	-0.7			103.6	18.3
930	-0.6	4.8	100.0	-0.2	4.1	85.8	-0.3	4.4	94.3	-1.1	-1.0			117.5	19.2
1000	0.1	4.3	87.7	-0.1	3.9	81.4	0.3	4.0	80.2	-0.6	-0.8			126.9	20.4
1030	0.4	4.0	80.1	0.7	3.8	75.7	0.9	4.0	77.0	-0.2	-0.6			179.8	29.4
1100	0.8	3.6	71.6	1.0	3.7	71.4	1.2	4.2	79.9	0.5	-0.2			197.9	31.0
1130	1.1	4.0	77.4	1.1	4.0	77.6	1.5	4.4	82.0	1.0	-0.1			200.0	30.6
1200				1.2	4.5	86.3	1.5	4.6	85.3	0.9	-0.5			236.1	38.5
1230	0.7	5.0	98.6	1.4	4.9	91.5	2.4	4.4	76.6	0.8	-1.0			393.0	67.7
1300	0.3	5.0	100.0	1.5	4.4	82.4	2.1	4.6	81.4	1.0	-1.5			358.2	59.6
1330				0.9	4.4	86.4	1.4	4.6	86.1	1.1	-1.8			339.5	58.8
1400	0.0	4.4	90.7	1.1	4.1	78.9	2.3	4.2	74.5	1.3	-2.0			525.8	89.0
1430	0.0	4.2	88.0	0.6	4.1	81.5	1.3	3.6	69.0	1.7	-2.0			356.0	56.4
1500	0.0	4.0	83.3	0.8	3.8	73.4	1.5	4.2	79.1	2.0	-1.8			472.2	75.8
1530	0.0	4.1	85.4	0.8	3.7	72.6	1.5	4.2	78.7	2.4	-1.7			422.3	71.3
1600	0.0	4.1	83.9	0.9	3.9	75.1	1.3	4.2	79.9	2.7	-1.4			418.8	71.2
1630				0.7	3.2	62.8	1.0	3.6	70.1	3.1	-1.2			334.5	60.9
1700				0.5	3.1	61.3	1.1	3.5	66.4	3.3	-0.8			356.8	62.7
1730	0.0	3.2	67.3	0.5	3.2	63.4	1.1	3.4	66.2	3.3	-0.7			323.5	58.1
1800	0.0	3.1	64.8	0.7	3.0	59.1	1.2	3.3	63.1	3.5	-0.3			284.2	51.5
1830	0.0	3.9	79.8	0.8	3.1	61.0	1.2	3.3	63.1	3.7	0.1			278.2	51.6
1900	0.0	3.9	81.8	0.7	3.2	63.0	1.2	3.3	63.1	3.3	-0.1			249.1	47.5
1930	0.0	3.4	69.4	0.6	3.0	59.2	1.2	3.3	63.1	3.2	0.0			163.7	30.3
2000	0.0	3.5	72.8	0.6	2.9	58.4	1.2	3.3	63.1	3.1	0.2			116.4	20.6
2030	0.0	3.4	71.3	0.3	2.8	57.0				2.7	0.0			101.0	19.7
2100	0.0	3.9	81.5	0.6	3.4	67.7				2.5	0.2			140.6	34.7
2130	0.0	3.5	72.0	0.2	3.0	61.5				2.3	0.3			75.3	17.5
2200	0.0	3.5	72.1	-0.4	3.2	68.9				2.6	0.9			73.0	19.1
2230	0.0	3.5	72.0	-0.3	3.2	68.4				2.5	1.2			46.0	14.3
2300	0.0	3.6	75.5	-0.1	3.1	63.7				1.4	0.5			17.6	5.0
2330	0.0	4.1	85.0	-0.1	3.0	63.1				0.7	0.0			8.6	5.0
Max	1.1	5.0	100.0	1.5	4.9	100.0	2.4	4.8	100.0	3.7	1.2			525.8	89.0
Min	-2.0	3.1	64.8	-1.7	2.8	57.0	-1.9	3.3	63.1	-1.1	-2.0			0.0	0.0
Ave	-0.4	4.0	84.2	0.0	3.9	80.2	0.2	4.2	85.3	1.1	-0.4			151.2	26.8
Sum														13.1	2.3

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-29.2	-13.1			0.37	6.21	4.67	3.38	221	0.27	0.33	0.001	4.27	345.2	348.1 NC
-48.6	-12.2				5.90	4.29	3.00	221	0.39	0.33	-0.001	4.80	345.4	
-48.3	-11.5				6.57	4.91	3.51	219	0.30	0.36	-0.001	4.17	345.5	348.0 NC
-72.6	-10.9				6.25	4.61	3.33	214	0.61	0.37	-0.001	4.57	345.6	
-26.2	-10.2				6.41	4.62	3.38	213	0.93	0.41	0.004	5.71	345.1	348.0 NC
-11.9	-9.4				5.83	4.38	3.05	210	0.48	0.34	0.030	2.92	345.4	
-11.1	-8.8				6.40	4.85	3.50	211	0.36	0.36	0.003	2.87	345.2	347.9 NC
-9.6	-8.2				6.57	5.10	3.71	210	0.29	0.35	0.005	2.65	344.9	
-10.0	-7.7				6.27	4.44	3.39	206	1.09	0.40	0.006	4.18	344.8	348.1 NC
-6.1	-7.3			0.16	5.63	4.45	3.15	206	0.27	0.30	0.018	2.55	345.0	
-5.8	-6.9			0.13	6.30	4.74	3.13	205	0.88	0.40	-0.005	4.03	345.2	348.0 NC
-5.2	-6.6			0.59	6.09	4.59	3.41	207	0.92	0.39	-0.012	4.10	344.8	
-4.0	-6.2			0.60	6.19	4.72	3.44	216	0.28	0.33	-0.004	3.17	344.2	348.0 NC
10.3	-5.9			0.30	6.51	5.02	3.51	208	0.26	0.34	0.006	3.72	344.3	
18.2	-5.7			0.29	6.28	4.56	3.26	217	0.89	0.40	0.002	5.51	343.7	348.0 NC
31.6	-5.4			0.12	6.33	4.41	3.37	217	0.95	0.40	0.007	5.80	344.0	
42.3	-5.1			0.17	5.70	4.21	3.05	213	0.86	0.36	-0.009	5.17	343.3	347.9 NC
58.7	-4.9			0.17	5.89	4.49	3.08	212	0.32	0.32	0.007	3.57	343.0	
79.7	-3.2			0.18	5.85	4.48	3.21	215	0.40	0.33	-0.006	5.37	343.0	348.0 NC
87.0	2.3			0.16	6.01	4.24	3.11	213	1.09	0.39	-0.008	6.23	343.4	
95.8	10.4			0.16	6.26	4.91	3.55	211	0.21	0.33	-0.008	3.43	343.3	347.9 NC
142.5	20.4			0.16	6.21	4.89	3.50	211	0.24	0.34	-0.013	4.15	343.1	
153.7	26.9			0.16	7.01	5.35	3.62	206	0.35	0.39	-0.008	4.75	342.2	347.7 NC
160.0	26.9			0.15	7.38	5.31	4.05	209	0.87	0.47	-0.009	6.47	342.8	
190.6	32.2			0.16	7.21	5.79	3.94	209	0.21	0.38	-0.084	8.33	342.3	347.7 NC
308.7	48.5			0.17	7.81	5.90	4.25	218	0.25	0.41	-0.029	5.97	342.5	
284.5	49.9			0.17	7.23	5.35	3.94	220	0.24	0.38	-0.031	6.15	342.8	347.7 NC
262.0	38.8			0.17	6.65	4.99	3.47	234	0.42	0.38	-0.290		341.7	
391.4	57.3			0.17	6.57	5.21	3.74	238	0.13	0.32	-0.032	6.79	340.9	348.3 V
256.3	48.2			0.16	5.70	4.38	3.06	239	0.22	0.30	-0.024	5.56	341.4	
316.7	44.4			0.16	5.75	4.16	3.00	228	0.95	0.37	-0.025	8.95	342.4	348.5
296.7	45.2			0.17	6.43	4.77	3.47	229	0.25	0.34	-0.023	5.96	342.3	
309.7	36.7			0.17	6.84	4.96	3.51	231	0.74	0.42	-0.016	8.54	342.4	348.7 NC
257.5	30.3			0.18	7.25	5.51	4.01	233	0.21	0.38	-0.315		342.7	
277.8	27.1			0.18	7.53	5.57	4.01	233	0.27	0.40			342.6	348.5 NC
249.0	23.9			0.18	7.01	5.12	3.71	230	0.64	0.42	-0.016	7.90	341.2	
218.9	19.4			0.18	6.68	5.27	3.66	218	0.20	0.34	-0.025	5.26	337.5	348.4 NC
202.3	15.7			0.19	6.65	4.95	3.61	218	0.28	0.36	-0.017	6.43	339.3	
183.0	12.2			0.19	6.97	5.29	3.82	219	0.24	0.36	-0.020	5.99	340.0	348.6 NC
121.4	6.8			0.19	6.31	4.79	3.29	218	0.29	0.34	-0.019	5.76	339.9	
91.1	4.5			0.18	5.84	4.22	3.10	218	0.95	0.37	-0.040	7.13	339.5	348.6 NC
79.0	0.9			0.20	6.32	4.61	3.11	224	0.46	0.36	1.059	5.13	340.7	
67.9	-3.9			0.25	6.00	4.48	3.24	217	0.32	0.33	3.190	4.52	340.0	348.5 NC
41.8	-5.1			0.23	5.94	4.45	3.12	213	0.53	0.35	0.655	4.24	340.6	
3.8	-11.3			0.26	5.54	4.05	2.93	209	0.95	0.35	0.321	4.60	340.0	348.6 NC
-33.2	-17.7			0.31	4.81	3.71	2.52	211	0.33	0.26	0.119	2.77	340.7	
-10.5	-15.8			0.29	5.11	3.84	2.67	217	0.38	0.28	0.195	3.78	339.8	348.6 NC
-16.5	-12.1				4.87	3.48	2.43	216	1.20	0.32	0.044	5.16	340.1	
391.4	57.3			0.60	7.81	5.90	4.25	239	1.20	0.47	3.190	8.95	345.6	348.7
-72.6	-17.7			0.12	4.81	3.48	2.43	205	0.13	0.26	-0.315	2.55	337.5	347.7
102.9	8.6			0.21	6.31	4.73	3.38	217	0.50	0.36	0.097	5.09	342.6	348.2
8.9	0.7													

IBP site August 14

Time h	Ta1 C 200cm	AH1 g/m3	RH1 %	Ta2 C 112cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	0.0	3.6	75.5	-0.3	3.2	67.5	-7.0	5.9	100.0	0.5	-0.1				4.3
030	0.0	3.4	70.2	-1.4	4.6	100.0	-1.7	4.5	100.0	1.1	0.8			2.0	3.0
100				-0.5	3.3	70.3	-0.7	3.2	70.2	0.5	0.2			0.0	0.0
130				-0.7	3.3	72.6	-1.0	3.2	70.2	0.1	0.0			0.0	0.0
200	0.0	4.1	85.3	-0.7	3.6	77.9	-1.2	3.8	86.4	0.3	0.2			0.0	0.0
230	0.0	4.1	85.9	-0.3	3.3	68.6	-0.7	3.7	81.1	-0.2	-0.2			0.0	0.0
300	0.0	4.2	87.7	-0.3	3.1	65.9	-0.8	3.7	80.3	0.5	0.6			0.0	0.0
330				-1.5	4.1	95.0	-1.9	4.0	95.1	0.8	1.0			0.0	0.0
400	0.0	4.0	83.7	-0.8	3.5	75.6	-1.0	3.4	75.9	0.1	0.3			0.0	0.0
430	0.0	4.1	83.9	-0.8	3.6	78.0	-1.0	3.4	76.7	-0.8	-0.6			0.0	0.0
500	0.0	4.1	83.9	-0.5	3.3	71.7	-0.9	3.4	73.7	-0.7	-0.4			2.4	0.7
530	0.0	4.2	86.1	-0.5	3.3	70.4				-1.1	-0.8			1.9	5.6
600	0.0	4.1	85.9	-0.9	3.5	76.2				-1.3	-0.9			8.2	5.7
630	0.0	4.2	87.0	-0.8	3.8	82.3	-0.9	4.1	89.7	-1.2	-0.9			18.7	3.7
700	0.0	3.9	81.7	-1.0	3.9	86.0				0.5	0.8			32.0	6.3
730	0.0	3.5	72.6	-1.8	4.3	100.0				-0.5	-0.2			65.6	20.2
800	0.0	3.9	80.3	-0.3	4.0	85.6				-1.6	-1.3			125.5	32.7
830	0.0	3.6	74.1	-0.1	3.8	79.2				-2.0	-1.7			165.6	43.2
900	0.0	3.3	68.0	0.6	2.9	57.5				-1.6	-1.3			190.7	44.7
930	0.0	3.5	71.5	0.8	3.0	57.8				-1.5	-1.5			218.6	53.8
1000	0.0	3.5	73.2	0.8	3.6	69.7				-1.3	-2.0			236.0	48.0
1030	0.0	3.8	78.3	0.8	4.1	80.0				-0.9	-2.2			205.0	35.9
1100	0.0	4.1	84.6	0.7	4.0	78.4				1.4	-0.4			194.8	33.1
1130	0.7	4.1	81.5	0.8	3.1	61.2	1.1	3.7	71.2	3.0	0.7			232.4	38.7
1200	0.6	4.7	92.8	0.9	3.1	60.3	1.0	3.8	74.4	1.9	-0.9			244.4	41.3
1230	0.8	3.7	72.4	0.9	3.3	63.8	1.5	3.9	73.6	1.1	-2.3			241.6	40.2
1300	0.9	3.4	67.2	0.9	3.7	71.0	1.2	4.2	79.8	1.8	-1.8			188.6	32.4
1330	0.3	3.7	73.9	0.6	3.5	70.0	0.8	3.7	73.5	2.2	-1.2			127.1	21.0
1400	-0.4	4.2	89.3	-0.2	4.0	84.3	0.0	4.3	87.9	3.5	0.3			157.5	26.9
1430	0.0	3.7	75.7	0.2	4.3	87.0	0.7	4.8	94.3	1.5	-1.7			250.4	26.2
1500	0.4	3.8	76.8	0.7	3.9	77.5	1.0	4.8	92.0	1.3	-2.2			252.0	39.7
1530	0.6	3.5	70.2	0.7	4.0	78.5	1.0	4.3	82.5	2.2	-1.6			135.2	25.7
1600	0.4	3.9	77.6	0.6	4.0	79.4	1.1	4.2	80.7	6.2	2.8			132.7	22.4
1630	0.6	3.7	74.2	0.8	3.9	76.0	0.8	4.1	79.9	7.2	4.1			138.9	21.7
1700	0.7	3.4	67.5	0.8	3.2	62.0	0.8	3.5	69.5	6.4	3.6			132.8	24.1
1730	0.7	3.4	67.1	1.0	3.5	68.2	1.2	3.9	73.6	5.3	2.5			183.7	30.9
1800	0.7	3.7	72.5	1.0	3.9	74.5	1.3	4.1	77.7	5.1	2.3			187.1	29.4
1830	0.7	3.7	73.5	1.1	3.8	73.3	0.9	4.5	87.3	4.5	1.8			119.4	21.0
1900	0.5	3.9	77.5	0.8	3.9	77.3	0.9	3.5	68.5	4.1	1.6			75.3	12.4
1930	0.5	3.9	77.9	0.5	4.0	80.3	1.0	3.6	68.8	4.6	2.5			65.6	10.6
2000	0.3	3.7	74.9	0.1	4.0	82.5	0.5	4.0	78.9	4.7	2.9			45.6	7.3
2030	0.1	4.0	82.3	-0.1	4.1	85.1	0.2	4.2	86.8	4.3	2.7			43.5	8.5
2100	0.2	3.8	78.1	0.1	3.7	76.1	0.3	3.7	75.3	4.2	2.8			58.1	9.4
2130	0.3	3.7	74.1	0.0	3.8	77.7	0.1	3.9	80.7	4.0	2.7			36.5	8.5
2200	-0.4	3.6	76.4	-0.3	3.2	66.7	-0.3	3.8	80.0	3.9	2.9			14.3	4.1
2230	-0.6	4.1	88.3	-0.5	3.5	75.0	-0.6	4.0	85.7	3.9	3.1			7.8	5.7
2300	-1.0	4.4	98.0	-1.5	4.7	100.0	-1.5	5.1	100.0	3.6	3.0			8.5	2.4
2330	-1.3	3.8	86.7	-1.6	4.4	100.0	-1.9	4.4	100.0	3.2	2.9			1.2	4.0
Max	0.9	4.7	98.0	1.1	4.7	100.0	1.5	5.9	100.0	7.2	4.1			252.0	53.8
Min	-1.3	3.3	67.1	-1.8	2.9	57.5	-7.0	3.2	68.5	-2.0	-2.3			0.0	0.0
Ave	0.1	3.8	78.8	0.0	3.7	76.5	-0.1	4.0	81.7	1.8	0.5			96.7	17.8
Sum														8.4	1.5

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-26.7	-13.8				4.69	3.55	2.32	214	0.44	0.27	0.226	3.30	340.2	348.8 NC
-58.7	-12.5				3.72	2.67	1.79	205	0.63	0.22	0.100	2.46	341.1	
-22.3	-11.2				4.12	2.99	2.14	216	0.92	0.26			340.6	348.9 V
-27.7	-10.4				3.21	2.30	1.48	206	1.79	0.23			341.0	
-51.9	-9.8				3.57	2.67	1.67	212	0.57	0.21	0.047	2.95	341.7	348.7 D
-21.4	-9.5				3.88	2.77	1.85	207	1.69	0.27	0.043	3.67	340.9	
-19.6	-8.7				2.89	2.16	1.24	198	0.90	0.19	0.035	2.79	341.5	349.2 D
-54.9	-8.5				3.22	2.34	1.51	201	0.97	0.21			341.6	
-30.1	-8.1				4.38	3.12	2.04	215	1.71	0.31	0.029	5.13	340.8	348.7
-24.8	-7.7				3.55	2.55	1.63	216	1.91	0.25	0.046	4.26	340.4	
-14.8	-7.4				3.90	2.91	2.07	217	0.76	0.24	0.040	4.18	340.5	348.6 NC
-19.0	-7.0				4.33	3.08	1.91	233	1.66	0.31	0.020	5.55	339.8	
-1.4	-6.7				3.51	2.71	1.69	232	0.49	0.21	0.460	3.28	340.2	348.5 NC
5.9	-6.2			0.20	2.72	1.93	1.24	215	1.67	0.19	0.066	3.12		
-13.2	-5.9			0.20	2.90	2.21	1.43	231	0.72	0.18				348.4 NC
-26.7	-5.8			0.31	2.18	1.38	0.96	246	3.24	0.17			342.2	
8.9	-5.6			0.26	2.13	1.57	1.02	230	0.62	0.13			342.4	348.2 NC
37.8	-5.3			0.26	2.65	2.02	1.30	216	0.45	0.15			341.6	
63.9	-5.2			0.23	2.61	2.14	1.41	205	0.24	0.14			341.3	348.4 NC
114.8	-3.8			0.25	2.61	2.03	1.43	216	0.19	0.13			341.9	
143.2	12.3			0.20	2.88	2.19	1.62	238	0.17	0.15			341.3	348.4 NC
145.8	30.1			0.18	2.72	1.98	1.49	243	0.88	0.18			342.4	
142.2	38.0			0.17	2.27	1.78	1.27	238	0.18	0.12			342.3	348.5 NC
168.9	41.7			0.17	1.97	1.39	1.04	225	1.27	0.14	-0.054	4.19	341.8	
178.2	44.6			0.17	1.27	0.96	0.65	219	0.74	0.08	-0.060	2.50	342.5	348.4 NC
173.5	44.8			0.17	1.63	1.37	1.09	241	0.02	0.07	-0.162	3.03	342.4	
141.2	31.4			0.17	1.45	1.12	0.71	166	0.93	0.10	-0.043	2.58	341.7	348.4 NC
97.0	18.4			0.17	1.32	1.01	0.84	156	0.48	0.08	-0.138	3.78	343.4	
131.1	12.2			0.17	1.35	1.05	0.86	38	0.55	0.08	-0.118	3.87	343.6	348.2 NC
214.6	31.0			0.11	1.93	1.56	1.13	284	0.11	0.09	-0.095	3.11	342.8	
205.2	38.5			0.16	2.62	2.16	1.62	287	0.05	0.12	-0.054	3.13	340.1	348.2 NC
103.1	24.8			0.19	2.92	2.16	1.63	172	0.69	0.18	-0.028	4.72	341.4	
108.7	10.7			0.17	3.23	2.49	1.87	26	0.12	0.16	-0.040	3.56	340.5	348.2 NC
112.8	11.5			0.16	3.56	2.69	1.93	37	0.53	0.21	-0.009	4.33	340.8	
103.8	9.9			0.18	3.42	2.46	1.83	23	0.93	0.22	-0.007	4.30	340.5	348.3 NC
148.9	18.1			0.17	3.14	2.35	1.66	11	0.48	0.18	-0.027	4.10	340.0	
142.2	21.7			0.16	3.61	2.76	1.93	9	0.40	0.21	-0.024	4.46	339.3	348.5 NC
88.8	13.1			0.18	3.38	2.50	1.88	2	0.59	0.20	-0.013	4.32	339.6	
52.9	5.8			0.17	3.31	2.60	1.81	3	0.22	0.17	-0.019	3.36	339.6	348.5 NC
47.3	1.8			0.16	3.54	2.63	1.96	20	0.66	0.22	-0.021	5.29	339.3	
31.2	-1.2			0.16	3.69	2.78	1.90	21	0.57	0.22	-0.010	4.19	339.1	348.3 NC
29.4	-2.5			0.20	3.22	2.51	1.78	30	0.18	0.17	-0.004	2.74	339.5	
38.0	-1.4			0.16	3.68	2.81	2.07	27	0.16	0.18	-0.005	2.79	339.9	348.2 NC
19.7	-2.8			0.23	3.87	2.83	1.91	24	0.53	0.23	0.008	3.48	340.2	
2.8	-7.8			0.28	4.12	2.96	2.01	29	0.77	0.26	-0.001	4.25	340.3	348.4 NC
-0.5	-8.9			0.74	4.30	3.11	2.11	27	1.00	0.28	-0.001	4.66	339.8	
0.3	-10.0			0.28	3.81	3.02	2.10	28	0.17	0.20	0.019	3.03	340.2	348.5 NC
-2.5	-9.9				3.56	2.74	1.85	20	0.34	0.20	0.019	3.22	340.1	
214.6	44.8			0.74	4.69	3.55	2.32	287	3.24	0.31	0.460	5.55	343.6	349.2
-58.7	-13.8			0.11	1.27	0.96	0.65	2	0.02	0.07	-0.162	2.46	339.1	348.2
53.9	5.4			0.21	3.09	2.31	1.60	149	0.74	0.19	0.006	3.71	341.0	348.5
4.7	0.5													

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Time h	Ta1 C 200cm	AH1 g/m3	RH1 %	Ta2 C 112cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-1.5	3.9	90.2	-1.6	4.2	98.5	-1.8	4.3	100.0	2.8	2.5			0.0	0.0
030	-1.4	3.9	88.3	-1.6	4.4	100.0	-1.7	4.1	96.8	2.3	2.2			0.0	0.0
100	-1.3	3.8	87.3	-1.6	4.3	98.6	-1.7	4.3	99.2	2.2	2.1			0.0	0.0
130	-1.7	4.2	98.7	-1.5	4.2	95.9	-1.8	4.3	100.0	2.0	2.0			0.0	0.0
200	-1.7	4.2	98.0	-1.6	4.3	98.7	-1.8	4.3	100.0	1.9	1.9			0.0	0.0
230	-1.7	4.2	98.7	-1.6	4.2	97.6	-1.7	4.2	98.2	1.8	1.8			0.0	0.0
300	-1.8	4.3	100.0	-1.6	4.3	98.8	-1.7	4.2	98.3	0.9	1.0			0.0	0.0
330	-1.7	4.2	98.4	-1.6	4.4	100.0	-1.7	4.1	96.3	0.2	0.4			0.0	0.0
400	-1.9	4.4	100.0	-1.6	4.4	100.0	-1.8	4.2	98.4	0.1	0.3			0.0	0.0
430	-2.0	4.5	100.0	-1.6	4.3	100.0	-1.7	4.2	97.6	0.2	0.4			0.0	0.0
500	-1.7	4.3	100.0	-1.7	4.4	100.0	-1.9	4.3	100.0	0.5	0.6			0.0	0.0
530	-1.8	4.3	100.0	-1.8	4.4	100.0	-1.7	4.1	96.8	0.9	1.1			1.3	-2.2
600	-2.0	4.5	100.0	-1.7	4.4	100.0	-1.8	4.2	99.8	1.2	1.4			3.2	3.8
630	-1.8	4.4	100.0	-1.6	4.2	96.1	-1.8	4.3	100.0	1.3	1.5			9.7	8.9
700	-1.8	4.3	100.0	-1.8	4.4	100.0	-1.7	4.2	97.7	1.3	1.5			22.8	19.1
730	-1.9	4.4	100.0	-1.6	4.2	97.5	-1.8	4.3	100.0	1.1	1.3			46.5	34.6
800	-1.8	4.3	99.8	-1.5	4.2	96.5	-1.9	4.4	100.0	0.9	1.1			70.6	51.5
830	-1.7	4.1	95.4	-1.7	4.4	100.0	-2.0	4.3	100.0	0.9	1.1			93.7	66.8
900	-1.8	4.3	100.0	-1.7	4.3	99.3	-2.0	4.4	100.0	0.6	0.7			130.3	91.3
930	-1.6	4.1	93.8	-1.6	4.2	96.8	-1.7	4.0	94.2	0.5	0.6			207.8	131.7
1000	-1.6	4.0	92.7	-1.6	4.4	100.0	-1.9	4.2	99.4	0.4	0.6			137.5	86.2
1030	-1.9	4.3	100.0	-1.6	4.3	100.0	-1.9	4.3	100.0	0.4	0.5			99.5	57.7
1100	-1.6	4.1	96.2	-1.8	4.4	100.0	-1.9	4.1	97.5	-0.2	-0.2			175.1	101.8
1130	-1.1	3.7	83.7	-1.1	3.9	87.4	-0.9	3.8	83.1	-0.6	-0.8			309.4	152.5
1200	-1.2	3.8	86.3	-1.1	3.9	86.6	-0.8	4.2	91.3	-1.0	-1.6			242.4	94.4
1230	-1.0	4.2	92.1	-0.9	4.1	89.6	-0.7	4.4	94.9	-0.2	-1.3			261.8	72.2
1300	-0.4	3.0	64.3	-0.7	4.0	85.7	-0.6	4.2	91.4	0.4	-1.2			240.0	49.9
1330	-1.2	4.6	100.0	-0.8	4.2	91.7	-0.2	4.1	86.4	1.0	-0.8			246.2	40.8
1400	-1.0	3.9	87.3	-0.9	4.2	92.8	-0.3	4.0	85.0	1.6	-0.5			257.6	41.3
1430	-1.1	4.2	93.6	-0.6	3.9	85.4	-0.2	4.2	88.5	1.8	-0.5			271.1	46.6
1500	-0.7	4.0	88.0	-0.4	3.6	77.8	-0.1	3.9	80.8	1.9	-0.5			251.1	43.3
1530	-0.8	4.3	94.6	-0.7	3.7	81.1	-0.4	4.3	91.0	2.2	-0.4			278.0	45.1
1600	-0.9	4.3	95.0	-0.5	4.0	85.9	0.2	4.0	82.0	2.3	-0.4			325.1	51.7
1630	-0.5	4.4	94.8	-0.1	4.0	83.8	0.5	3.9	77.4	2.3	-0.7			339.4	56.2
1700	-0.8	4.0	86.8	-0.4	3.9	81.9	0.1	4.0	81.7	2.6	-0.5			256.7	43.8
1730	-1.0	3.6	80.3	-0.6	4.1	88.8	-0.6	4.2	89.6	2.8	-0.1			214.3	35.1
1800	-1.0	3.5	78.0	-1.0	4.3	96.2	-0.5	3.6	77.1	3.1	0.4			140.0	23.4
1830	-1.2	3.9	86.8	-0.8	4.1	89.2	-0.6	3.8	83.0	2.6	0.2			159.3	24.5
1900	-1.0	3.5	78.3	-0.8	4.5	98.2	-0.6	3.8	82.8	2.3	-0.1			145.8	26.7
1930	-1.4	4.2	95.6	-0.9	4.3	94.6	-0.3	3.5	74.9	2.3	0.2			123.2	20.2
2000	-1.0	3.7	80.8	-1.0	4.2	94.4	-0.7	3.5	76.3	2.2	0.3			93.4	16.0
2030	-1.0	3.9	86.5	-1.0	4.4	96.9	-0.7	3.5	76.1	2.2	0.5			97.9	17.9
2100	-1.3	3.9	89.1	-1.5	4.3	99.4	-1.3	3.6	82.5	2.3	0.8			76.4	14.1
2130	-1.5	3.9	90.3	-1.7	4.2	98.0	-1.5	3.9	89.3	1.5	0.3			59.4	12.6
2200	-1.5	4.0	91.8	-1.9	4.4	100.0	-2.0	4.2	99.2	0.9	-0.1			39.2	11.2
2230	-1.6	4.0	92.4	-1.8	4.5	100.0	-2.0	4.1	97.1	0.9	0.2			24.4	7.1
2300	-2.0	4.3	100.0	-1.5	4.2	96.1	-1.8	3.6	84.7	0.4	-0.1			13.3	3.9
2330	210cm			120cm			30cm								
2330	-1.9	4.3	100.0	-1.7	4.2	98.0	-1.8	3.6	84.0	-0.2	-0.4			7.7	3.9
Max	-0.4	4.6	100.0	-0.1	4.5	100.0	0.5	4.4	100.0	3.1	2.5			339.4	152.5
Min	-2.0	3.0	64.3	-1.9	3.6	77.8	-2.0	3.5	74.9	-1.0	-1.6			0.0	-2.2
Ave		4.1	92.8	-1.3	4.2	94.9	-1.2	4.1	91.7	1.3	0.4			114.0	33.4
Sum														9.8	2.9

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-3.9	-9.4				3.52	2.57	1.72	12	0.52	0.21	0.011	3.18	339.7	348.4 NC
-2.0	-8.8				3.49	2.57	1.81	5	0.74	0.22	0.016	3.85	339.7	
-2.5	-8.4				3.72	2.77	2.05	0	0.61	0.22	0.018	3.97	339.2	348.4 NC
-4.3	-7.8				3.74	2.76	2.04	-1	0.70	0.23	0.002	4.37	339.7	
-4.2	-7.3				3.76	2.81	2.07	0	0.24	0.20	0.005	3.05	339.7	348.4 NC
-2.6	-6.8				4.06	2.79	2.10	-8	1.18	0.27	-0.002	5.14	339.9	
2.0	-6.2				3.74	2.84	2.07	-4	0.27	0.20	-0.001	3.34	341.3	348.3 NC
0.4	-5.8				3.82	2.81	2.02	60	0.54	0.23	0.002	3.98	341.6	
0.3	-5.5				3.73	2.82	1.91	7	0.81	0.24	-0.004	4.64	341.5	348.3 NC
2.2	-5.2				3.77	2.86	2.15	109	0.44	0.22	-0.014	4.84	341.5	
1.7	-4.9				4.04	3.15	2.21	40	0.20	0.21	0.005	3.21	341.0	348.2 NC
2.2	-4.6				3.75	2.95	2.21	9	0.09	0.18	-0.001	2.76	341.5	
3.1	-4.5				3.91	3.05	2.16	-6	0.20	0.21	-0.007	3.64	341.5	348.2 NC
5.7	-4.2				3.81	2.96	2.09	-21	0.26	0.20	0.001	3.35	341.6	
7.7	-3.9				3.86	2.98	2.12	34	0.23	0.21	-0.001	3.34	341.5	348.2 NC
12.6	-3.7			0.75	3.77	2.87	2.10	4	0.47	0.22	-0.002	4.25	341.4	
21.3	-3.4			0.73	3.91	3.04	2.13	-20	0.26	0.21	0.006	3.45	341.6	348.2 NC
27.0	-3.1			0.71	3.88	3.10	2.31	-5	0.13	0.19	0.015	3.18	341.3	
34.5	-2.8			0.70	3.72	3.08	2.38	-20	0.03	0.15	0.017	2.26	341.5	348.1 NC
69.1	-2.2			0.63	4.35	3.28	2.63	11	0.35	0.24	0.010	3.49	339.7	
46.0	-2.3			0.63	4.27	3.42	2.58	-16	0.06	0.19	0.017	2.52	339.9	348.1 NC
39.0	-2.4			0.58	3.69	2.83	2.32	22	0.19	0.19	0.001	3.61	340.4	
67.8	-1.7			0.58	3.47	2.70	2.11	33	0.11	0.17	0.014	2.76	340.3	348.0 NC
136.5	0.4			0.49	3.30	2.58	2.09	142	0.08	0.16	-0.016	3.16	340.9	
152.9	2.4			0.39	3.17	2.51	1.91	167	0.10	0.15	-0.023	3.30	340.6	347.9 NC
202.3	7.5			0.28	3.40	2.79	2.08	67	0.06	0.16	-0.013	2.96	340.6	
205.8	20.7			0.21	3.78	2.96	2.24	32	0.10	0.18	0.012	2.62	340.1	347.8 NC
210.5	27.2			0.17	3.86	3.00	2.13	21	0.19	0.20	-0.033	4.41	340.2	
216.2	34.6			0.16	4.23	3.39	2.38	28	0.15	0.21	-0.022	4.36	339.8	348.0 NC
225.5	38.3			0.17	4.43	3.51	2.66	33	0.07	0.20	-0.031	4.14	339.3	
214.4	35.0			0.17	4.58	3.45	2.72	23	0.27	0.25	-0.026	5.33	339.5	347.8 NC
235.7	33.0			0.16	4.60	3.61	2.90	36	0.16	0.23	-0.019	5.36	339.3	
267.2	37.5			0.16	4.60	3.55	2.59	16	0.31	0.25	-0.028	5.97	338.5	347.8 NC
261.0	40.1			0.17	4.47	3.33	2.59	25	0.36	0.25	-0.031	6.10	339.7	
205.2	31.2			0.17	4.43	3.43	2.54	30	0.12	0.22	-0.028	4.22	339.8	347.8 NC
167.4	21.5			0.16	4.11	3.42	2.45	27	0.11	0.20	-0.014	4.08	340.0	
95.4	9.3			0.17	3.93	3.07	2.15	31	0.18	0.20	-0.020	3.50	339.9	347.8 NC
126.2	11.8			0.15	4.16	3.18	2.30	24	0.20	0.22	-0.017	4.06	340.1	
117.8	12.1			0.18	4.18	3.30	2.43	20	0.11	0.20	-0.013	3.59	339.1	347.8 NC
95.1	8.2			0.16	4.46	3.48	2.36	34	0.33	0.25	-0.025	5.22	339.5	
67.9	4.2			0.17	4.14	2.99	2.25	26	0.78	0.26	-0.011	5.33	339.3	347.9 NC
64.4	2.2			0.18	3.90	2.93	2.12	30	0.58	0.23	-0.010	4.82	339.7	
33.8	-2.7			0.18	3.42	2.66	1.92	36	0.15	0.17	-0.001	2.66	339.9	347.9 NC
18.0	-6.0			0.21	3.02	2.23	1.57	31	0.96	0.19	0.000	3.66	340.8	
7.3	-8.4			0.29	3.44	2.56	1.79	27	0.74	0.21	0.020	3.88	339.7	347.9 NC
-4.0	-10.8			0.29	3.58	2.49	1.78	43	1.44	0.24	0.019	4.29	340.1	
-12.8	-13.1			0.30	3.04	2.24	1.64	26	0.76	0.19	-0.008	3.84	340.3	347.9 NC
-17.4	-12.5			0.50	3.00	2.27	1.57	33	0.49	0.18	-0.004	3.22	340.6	
267.2	40.1			0.75	4.60	3.61	2.90	167	1.44	0.27	0.020	6.10	341.6	348.4
-17.4	-13.1			0.15	3.00	2.23	1.57	-21	0.03	0.15	-0.033	2.26	338.5	347.8
75.3	4.4			0.33	3.85	2.96	2.18	26	0.36	0.21	-0.005	3.88	340.3	348.0
6.5	0.4													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-2.0	4.1	97.6	-1.7	4.3	100.0	-1.8	3.6	83.6	-0.7	-0.8			0.0	0.0
030	-2.0	4.1	97.5	-1.9	4.4	100.0	-1.8	3.6	84.0	-0.9	-0.9			0.0	0.0
100	-1.9	4.0	95.7	-2.0	4.3	100.0	-1.8	3.5	82.2	-0.8	-0.7			0.0	0.0
130	-2.0	4.1	96.9	-1.7	4.2	99.0	-2.0	3.8	89.8	-0.6	-0.5			0.0	0.0
200	-1.9	4.3	100.0	-1.7	4.1	95.8	-2.0	3.9	92.8	-0.7	-0.5			0.0	0.0
230	-2.0	4.3	100.0	-1.6	4.0	92.6	-1.9	3.7	87.2	-0.3	0.0			0.0	0.0
300	-2.0	4.3	100.0	-1.7	4.4	100.0	-1.9	3.6	84.8	-0.6	-0.2			0.0	0.0
330	-1.9	4.3	100.0	-1.7	4.1	96.7	-1.9	3.5	82.6	-0.4	-0.1			0.0	0.0
400	-2.0	4.2	100.0	-2.1	4.4	100.0	-2.1	3.7	88.8	-0.6	-0.3			0.0	0.0
430	-2.6	4.0	99.4	-3.2	4.2	100.0	-3.3	3.6	94.2	-0.5	-0.1			0.0	0.0
500	-2.7	3.9	97.0	-3.3	4.0	100.0	-3.3	4.1	100.0	-0.6	-0.2			0.0	0.0
530	-2.8	4.2	100.0	-3.4	3.8	100.0	-3.6	3.5	94.2	-1.6	-1.2			1.5	2.7
600	-2.5	3.8	94.8	-2.9	3.9	99.0	-3.0	3.7	95.6	-1.9	-1.4			13.0	5.5
630	-2.2	4.1	98.7	-2.3	4.2	100.0	-2.4	3.8	92.8	-2.0	-1.5			16.6	4.9
700	-1.9	4.2	99.4	-1.8	4.2	99.4	-1.7	3.3	77.4	-2.0	-1.5			26.6	6.4
730	-2.0	4.1	98.3	-1.7	3.6	84.7	-1.8	3.7	87.4	-1.3	-0.9			35.2	6.4
800	-2.0	4.1	98.3	-1.7	3.6	84.7	-1.8	3.7	87.4	1.0	1.4			49.2	9.8
830	-2.0	4.1	98.3	-1.7	3.6	84.7	-1.8	3.7	87.4	2.0	2.3			76.5	13.1
900	-2.0	4.1	98.3	-1.7	3.6	84.7	-1.8	3.7	87.4	1.9	2.1			128.6	22.2
930	-2.0	4.1	98.3	-1.7	3.6	84.7	-1.8	3.7	87.4	1.4	1.7			150.7	26.2
1000	-2.0	4.1	98.3	-1.7	3.6	84.7	-1.8	3.7	87.4	1.4	1.6			165.6	27.7
1030	-2.0	4.1	98.3	-1.7	3.6	84.7	-1.8	3.7	87.4	1.4	1.6			195.4	32.2
1100	-2.0	4.1	98.3	-1.7	3.6	84.7	-1.8	3.7	87.4	1.3	1.2			231.2	37.4
1130	-2.0	4.1	98.3	-1.7	3.6	84.7	-1.8	3.7	87.4	1.5	0.9			278.1	44.3
1200	-0.7	4.0	87.8	-0.5	4.4	94.0	-0.1	3.6	75.5	0.2	-0.9			285.4	43.9
1230	0.0	4.0	82.5	0.3	4.8	96.8	0.8	3.5	68.1	-0.6	-2.1			278.4	43.0
1300	0.0	4.1	84.5	0.4	4.8	97.8	0.8	3.6	69.5	-0.2	-2.0			272.1	44.0
1330	0.2	3.9	79.9	0.6	4.7	94.2	0.7	3.6	71.5	0.6	-1.4			268.4	45.3
1400	0.5	4.4	87.4	1.0	4.3	83.7	1.4	3.3	62.9	1.3	-0.8			318.2	52.1
1430	0.7	4.2	82.5	1.0	3.3	64.2	1.6	3.3	61.1	1.6	-0.7			337.5	53.3
1500	0.9	3.4	66.7	1.0	3.2	62.3	1.5	3.3	61.9	2.0	-0.5			333.8	52.6
1530	0.8	4.2	83.1	1.0	3.3	62.9	1.6	3.6	67.4	2.2	-0.3			338.3	56.1
1600	0.8	4.4	85.6	1.0	3.2	62.4	1.3	3.5	67.3	2.3	-0.1			282.5	45.9
1630	0.6	3.7	73.5	1.0	3.5	68.2	1.4	3.6	68.6	2.9	0.4			288.8	45.8
1700	0.7	3.7	72.0	0.8	3.9	77.1	1.6	4.0	74.4	3.1	0.8			297.7	47.7
1730	0.8	3.6	71.4	0.9	3.9	75.1	1.7	4.0	73.2	3.3	1.0			280.4	43.8
1800	0.7	3.7	72.4	1.0	3.8	72.7	1.5	3.9	72.1	3.4	1.2			251.2	44.2
1830	0.6	3.7	73.5	1.0	3.9	75.0	0.8	4.6	90.4	3.5	1.4			228.9	38.1
1900	0.5	3.8	76.7	1.0	3.8	73.3	0.9	4.2	82.0	2.9	0.9			213.8	38.0
1930	0.2	3.9	80.2	0.1	4.1	83.9	0.6	3.9	77.6	2.9	1.2			104.5	21.2
2000	0.2	3.9	79.2	0.2	4.1	84.5	0.5	3.9	77.6	3.0	1.6			105.7	17.3
2030	0.5	4.0	80.1	0.3	4.4	90.1	0.6	3.9	78.1	2.7	1.4			82.6	16.6
2100	0.3	4.0	80.3	0.2	4.4	89.7	0.5	3.8	75.9	2.5	1.4			64.3	11.1
2130	0.4	4.2	85.0	0.6	4.2	82.5	0.6	4.2	83.8	2.1	1.2			48.7	9.8
2200	0.5	4.2	84.7	0.5	4.4	87.6	0.6	4.4	86.7	2.1	1.3			35.8	9.1
2230	0.3	4.4	89.4	0.0	4.6	96.0	-0.1	4.4	90.9	2.3	1.5			26.3	6.7
2300	0.7	4.6	90.2	0.2	4.7	95.7	0.2	4.6	93.4	1.9	1.3			12.3	2.8
2330	0.6	4.5	89.8	0.5	4.7	94.4	0.4	4.7	93.7	1.9	1.5			0.3	4.6
Max	0.9	4.6	100.0	1.0	4.8	100.0	1.7	4.7	100.0	3.5	2.3			338.3	56.1
Min	-2.8	3.4	66.7	-3.4	3.2	62.3	-3.6	3.3	61.1	-2.0	-2.1			0.0	0.0
Ave	-0.8	4.1	89.6	-0.7	4.0	87.7	-0.6	3.8	82.1	1.0	0.2			127.6	21.5
Sum														11.0	1.9

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
-25.7	-10.3				2.36	1.75	1.21	40	1.09	0.15	-0.019	3.44	341.1	347.9	NC
-27.9	-9.2				2.63	1.81	1.23	152		0.20	-0.008	3.95	342.0		
-26.6	-8.6				2.59	1.85	1.27	228	1.61	0.18	-0.011	3.90	341.7	348.0	NC
-24.9	-8.1				2.83	2.08	1.41	152	1.37	0.19	-0.001	3.70	342.1		
-13.7	-7.6				2.98	2.26	1.41	47	0.95	0.19	0.001	3.31	341.5	348.0	NC
-15.9	-7.3				2.93	2.18	1.47	16	1.26	0.20	-0.006	3.99	342.0		
-14.9	-6.9				3.00	2.17	1.60	14	0.92	0.19	-0.007	3.49	341.8	347.9	NC
-13.0	-6.6				3.11	2.32	1.61	11	1.09	0.21	-0.003	4.11	341.8		
-34.8	-6.3				3.19	2.31	1.60	27	1.38	0.22	0.001	4.05	341.9	348.0	NC
-54.9	-6.2				2.36	1.55	0.93	28		0.20	0.048	3.43	343.2		
-35.0	-5.9				1.97	1.18	0.61	30		0.19	0.046	3.23	344.1	348.1	NC
-30.2	-5.6				1.58	0.68	0.28	28		0.21	0.061	3.09	345.9		
-14.1	-5.5			0.42	1.54	0.38	0.31	34		0.22	0.052	2.82	346.3	347.9	NC
-2.0	-5.0			0.29	1.50	0.33	0.43	28		0.22	0.018	2.70	345.8		
5.7	-4.8			0.24	1.59	1.06	0.61	33		0.14	-0.023	3.40	344.7	347.8	NC
12.4	-4.5			0.18	0.87	0.63	0.44	31		0.08	-0.059	2.25			
22.9	-4.2			0.20				30		0.08				347.8	NC
49.4	-4.0			0.17				23		0.08					
86.1	-3.8			0.17				23		0.08				347.8	NC
90.0	-3.8			0.17				34		0.08					
113.4	-3.9			0.17				45		0.08					I
142.4	2.3			0.17				60		0.08					
174.5	22.5			0.16				59		0.08				347.7	
213.6	39.5			0.16				70		0.08					
219.6	41.4			0.15	3.73	3.06	2.23	64	0.08	0.18	-0.027	3.70		347.7	NC
205.4	39.5			0.16	3.80	2.98	2.29	70	0.08	0.18	-0.042	3.79	343.6		
210.2	32.7			0.16	3.98	3.13	2.19	81	0.21	0.21	-0.026	4.34	342.3	347.8	NC
211.5	29.0			0.17	4.39	3.40	2.46	94	0.16	0.22	-0.015	3.76	341.6		
247.7	31.1			0.16	4.55	3.65	2.59	96	0.12	0.22	-0.027	4.35	340.9	347.7	NC
259.7	32.5			0.16	5.12	3.95	2.86	93	0.16	0.26	-0.023	4.61	340.3		
256.3	29.5			0.16	5.35	3.98	2.82	94	0.37	0.30	-0.013	5.18	340.1	347.7	NC
256.0	28.9			0.17	5.45	4.08	2.95	92	0.24	0.29	-0.016	4.82	340.1		
214.8	23.3			0.16	5.48	4.08	2.83	91	0.60	0.33	-0.009	6.08	339.4	347.7	NC
215.7	20.0			0.16	5.45	4.24	2.93	99	0.21	0.28	-0.017	4.67	339.9		
221.7	19.2			0.16	5.75	4.27	3.09	105	0.36	0.32	-0.017	5.63	338.4	347.6	NC
207.1	17.1			0.16	5.77	4.20	3.34	105	0.49	0.34	-0.021	7.25	338.7		
188.6	14.4			0.18	5.96	4.40	3.25	105	0.57	0.35	-0.016	7.34	338.0	347.5	NC
182.7	12.1			0.17	6.38	4.70	3.57	101	0.55	0.37	-0.005	6.41	339.5		
153.6	10.4			0.18	6.52	4.65	3.48	96	0.86	0.41	-0.006	7.28	339.8	347.5	NC
74.9	0.1			0.20	6.13	4.58	3.39	101	0.50	0.36	-0.007	6.67	339.9		
85.9	0.6			0.16	5.73	4.21	2.96	104	0.49	0.33	-0.005	5.36	339.6	347.4	NC
68.4	1.7			0.20	5.77	4.24	3.08	101	0.76	0.35	-0.003	5.97	339.2		
46.9	-1.4			0.17	5.63	4.08	3.02	103	0.74	0.35	-0.004	6.33	339.0	347.1	NC
38.5	-1.5			0.20	5.15	3.87	2.81	99	0.31	0.28	-0.005	4.46	338.8		
17.5	-3.1			0.26	5.60	4.15	3.06	104	0.64	0.33	-0.001	5.60	339.0	347.0	NC
-0.4	-7.0			0.26	5.59	4.14	3.13	103	0.51	0.33	0.010	5.54	339.0		
-24.4	-8.0			0.23	5.41	3.88	2.85	99	0.89	0.34	0.010	6.10	338.6	347.0	NC
-28.9	-9.4				5.31	3.70	2.74	110	1.14	0.35	0.005	6.05	338.1		
259.7	41.4			0.42	6.52	4.70	3.57	228	1.61	0.41	0.061	7.34	346.3	348.1	
-54.9	-10.3			0.15	0.87	0.33	0.28	11	0.08	0.08	-0.059	2.25	338.0	347.0	
85.5	6.0			0.19	4.13	3.00	2.16	74	0.65	0.23	-0.005	4.65	341.0	347.7	
7.4	0.5														

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	0.7	4.7	91.6	0.9	4.4	86.2	0.9	4.8	93.7	2.3	2.0			1.5	2.0
030	0.4	4.7	94.0	0.6	4.3	84.4	0.5	4.9	97.7	2.7	2.4			0.0	0.0
100	0.6	4.9	97.0	0.8	4.8	94.5	0.6	4.8	96.2	2.2	2.0			0.0	0.0
130	0.8	5.1	100.0	1.1	4.8	93.3	0.9	5.0	96.9	2.0	1.8			0.0	0.0
200	0.8	5.1	100.0	1.1	4.9	94.7	1.0	4.8	92.3	2.3	2.1			0.0	0.0
230	1.0	4.9	94.7	1.2	4.7	90.1	1.0	5.1	97.8	2.0	1.8			0.0	0.0
300	1.1	4.9	94.0	1.1	5.2	99.7	0.9	5.3	100.0	1.8	1.7			0.0	0.0
330	1.1	4.7	90.5	1.0	5.1	99.0	0.6	5.4	100.0	1.7	1.6			0.0	0.0
400	1.1	4.9	93.9	1.1	5.1	97.3	0.6	5.1	100.0	1.6	1.3			0.0	0.0
430	1.5	4.7	88.2	1.2	5.3	100.0	1.0	4.9	95.1	1.4	1.1			0.0	0.0
500	1.6	5.0	92.0	1.5	5.1	94.8	1.8	5.2	96.1	1.0	0.7			0.0	0.0
530	1.7	5.2	96.1	1.8	4.9	89.8	1.7	5.5	100.0	1.1	0.8			0.0	0.0
600	2.1	5.0	89.9	1.9	5.3	95.8	1.7	5.2	96.0	1.2	0.8			6.9	4.7
630	2.9	4.8	81.5	2.6	5.1	88.4	2.2	5.4	95.3	1.4	1.0			4.7	2.3
700				1.6	5.3	98.1	2.5	5.6	96.9	1.8	1.2			10.5	1.8
730	2.5	5.7	99.1	1.9	5.8	100.0	2.0	4.9	89.2	1.6	1.0			23.4	4.3
800	3.7	4.7	75.7	2.4	5.2	90.8	2.6	5.2	90.5	2.0	1.3			54.2	10.0
830	4.0	4.4	69.6	2.5	5.2	90.7	2.8	5.7	97.9	2.1	1.2			78.2	14.1
900	3.6	4.4	70.8	3.0	5.3	88.8	2.9	5.6	94.8	1.8	0.7			92.7	15.2
930	3.7	5.0	81.1	3.6	5.4	88.4	3.6	5.5	88.9	1.7	0.4			109.9	20.4
1000				4.2	5.4	83.6	4.7	5.6	83.6	1.8	0.2			145.3	23.7
1030	5.3	5.2	75.6	5.4	5.4	77.7	5.7	5.5	77.9	1.9	0.0			250.8	43.3
1100	6.8	5.2	68.8	7.0	5.8	75.6	7.9	5.9	71.2	2.1	-0.5			404.8	72.3
1130	7.3	5.4	68.9	7.8	5.6	68.4	8.4	5.4	63.4	2.4	-1.0			321.9	57.7
1200	8.0	5.2	62.9	8.3	5.2	62.4	9.2	5.0	56.0	2.7	-1.3			414.9	75.1
1230	7.6	5.1	63.3	8.0	5.2	62.8	8.7	5.2	59.9	2.8	-1.8			443.4	76.6
1300	7.4	5.0	62.8	7.6	5.2	64.2	8.6	5.3	62.3	3.6	-1.6			472.3	80.7
1330	7.1	5.2	67.2	7.3	5.5	70.0	8.5	5.2	61.1	3.9	-1.7			489.4	83.8
1400	7.3	5.1	65.1	7.4	5.6	70.6	8.6	5.3	61.2	4.1	-1.9			501.8	86.0
1430	7.0	5.4	69.9	7.5	5.6	70.4	8.7	5.2	60.2	4.5	-1.8			506.8	85.2
1500	7.1	5.8	74.3	7.3	6.1	76.9	8.5	5.6	65.1	4.4	-2.1			512.0	82.9
1530	6.8	6.0	78.2	7.2	6.0	76.5	8.4	5.7	67.2	4.7	-2.1			498.4	84.5
1600	4.6	5.5	83.6	4.7	5.6	84.3	5.8	6.0	84.3	5.2	-1.5			450.2	80.0
1630	3.4	5.2	86.0	3.6	5.5	89.3	5.0	5.1	75.3	5.3	-1.2			465.8	81.5
1700	2.7	5.2	89.3	3.0	5.2	87.5	4.2	4.7	73.6	5.2	-1.1			448.2	79.5
1730	2.7	4.9	85.2	3.1	5.1	85.2	3.9	4.9	77.5	5.0	-0.9			426.7	80.6
1800	2.8	4.5	77.5	3.0	4.9	82.7	3.3	5.4	88.5	5.0	-0.8			298.0	54.0
1830	2.7	4.5	77.1	2.6	4.9	85.2	3.1	5.2	87.5	4.8	-0.6			280.9	56.5
1900	2.3	4.3	76.3	2.4	4.6	81.0	2.8	4.9	84.1	4.3	-0.8			204.9	40.7
1930	2.3	4.6	81.1	2.5	4.7	82.3	2.9	5.1	87.2	4.0	-0.6			249.9	52.0
2000	2.3	4.6	81.2	2.3	4.8	83.9	2.9	5.1	85.9	3.8	-0.6			215.6	50.5
2030	2.1	4.2	74.8	2.2	4.4	79.0	2.5	4.9	85.5	3.7	-0.4			184.2	45.1
2100	1.7	4.5	82.1	1.6	5.1	94.3	2.1	4.6	81.8	3.8	0.1			141.8	41.3
2130	1.2	5.0	96.0	1.2	5.2	99.6	1.5	4.6	85.8	4.5	1.3			111.2	35.1
2200	0.8	5.0	97.4	1.3	4.6	86.8	1.0	5.3	100.0	4.4	1.7			72.0	24.9
2230	1.2	4.4	84.6	1.1	4.8	92.3	1.0	4.7	89.9	4.4	2.1			38.8	12.6
2300	0.7	4.8	95.0	0.6	4.9	97.6	0.5	4.9	97.5	4.2	2.2			4.6	3.7
2330	1.0	4.7	91.7	1.0	4.9	95.3	0.7	5.0	98.2	3.8	2.1			1.2	2.9
Max	8.0	6.0	100.0	8.3	6.1	100.0	9.2	6.0	100.0	5.3	2.4			512.0	86.0
Min	0.4	4.2	62.8	0.6	4.3	62.4	0.5	4.6	56.0	1.0	-2.1			0.0	0.0
Ave	3.2	4.9	82.9	3.2	5.1	86.0	3.6	5.2	85.2	3.0	0.3			186.2	34.7
Sum														16.1	3.0

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
-10.5	-5.3				6.53	4.39	3.16	108	1.63	0.46	-0.002	7.85	337.4	347.1	NC
-11.2	-5.0				6.91	5.05	3.51	113	0.69	0.42	-0.001	6.95	338.4		
-12.6	-4.8				5.79	4.43	3.24	112	0.31	0.31	0.001	4.55	337.7	347.1	NC
-11.2	-3.8				6.41	4.99	3.76	113	0.11	0.30	-0.003	4.25	337.9		
-20.5	-3.9				6.52	4.84	3.51	115	0.25	0.35	-0.003	5.08	337.5	346.7	A
-23.8	-4.1				6.46	4.58	3.26	113	0.85	0.41	0.000	6.91	337.6		
-9.6	-2.3				6.27	4.79	3.45	119	0.32	0.34	0.003	5.24	337.2	346.9	NC
-6.0	-1.2				5.95	4.37	3.35	121	0.48	0.35	0.009	6.11	337.2		
-12.3	-1.0				5.07	3.74	2.74	120	0.71	0.31	0.014	5.58	336.4	347.5	D
-8.5	-0.9				4.94	3.52	2.69	120	0.85	0.31	0.014	5.16	337.4		
-6.3	0.1				4.86	3.56	2.64	128	0.69	0.30	-0.003	5.86	337.0	348.2	D
-1.5	1.7				4.70	3.50	2.50	124	0.29	0.26	0.001	3.80	337.4		
-2.2	1.9				5.56	4.20	2.97	129	0.24	0.29	0.007	4.16	337.3	348.6	A
5.8	4.1			0.50	5.60	4.36	2.99	128	0.23	0.29	0.011	4.34	337.8		
10.7	4.6			0.17	5.33	3.97	2.98	123	0.19	0.27	-0.055	5.40	338.1	348.5	A
14.8	5.1			0.18	5.66	4.21	2.88	129	0.74	0.35	0.009	5.78	337.5		
42.8	7.8			0.18	5.88	4.44	3.13	123	0.25	0.31	0.019	4.43	337.6		C
59.9	11.8			0.18	6.83	4.94	3.67	122	0.77	0.42	0.018	7.06	337.1		
69.4	12.9			0.16	6.62	5.08	3.62	140	0.21	0.34	0.008	5.23	335.5		C
81.6	14.4			0.19	5.89	4.40	3.28	146	0.19	0.30	0.001	4.04	334.8		
106.3	19.0			0.16	6.03	4.65	3.14	154	0.29	0.33	-0.018	6.16	334.6		C
194.1	27.5			0.17	5.70	4.64	3.19	156	0.14	0.28	-0.008	4.39	334.9		
297.6	48.8			0.18	5.42	4.34	2.98	172	0.19	0.28	-0.019	5.41	334.5		C
204.3	51.3			0.18	4.40	3.27	2.14	210	1.15	0.29	-0.029	6.77	334.8		
277.5	59.2			0.18	4.81	3.77	2.47	239	0.31	0.26	-0.030	5.02	335.5		C
284.3	63.9			0.17	4.97	3.50	2.48	254	0.74	0.31	-0.022	6.20	338.4		
304.0	65.2			0.17	4.99	3.86	2.63	250	0.27	0.27	-0.022	5.24	338.3		C
318.7	64.4			0.17	5.25	4.13	2.83	265	0.20	0.27	-0.029	5.29	339.4		
326.7	64.2			0.17	5.40	3.93	2.95	262	0.51	0.32	-0.028	6.99	339.6		C
332.0	61.6			0.17	5.35	4.08	3.13	271	0.12	0.26	-0.051	5.15	340.3		
327.1	60.6			0.16	4.81	3.66	2.51	278	0.33	0.27	-0.027	5.48	341.0	349.7	D
327.4	56.9			0.17	5.48	4.17	2.94	271	0.24	0.29	-0.029	5.76	339.9		
309.3	43.6			0.18	6.54	5.04	3.25	279	0.40	0.37	-0.012	6.53	340.3	347.5	V
315.6	38.3			0.17	6.19	4.80	3.40	294	0.18	0.31	-0.026	5.95	340.1		
298.0	32.6			0.18	6.03	4.72	3.61	303	0.19	0.31	-0.033	7.18	340.3	346.8	
293.6	27.5			0.19	5.88	4.49	3.32	304	0.16	0.29	-0.031	5.14	340.1		
210.3	20.6			0.18	5.62	4.41	3.11	310	0.17	0.28	-0.009	4.72	339.2	346.9	NC
189.0	13.4			0.20	4.91	4.06	2.97	315	0.05	0.22	-0.014	3.74	339.1		
122.2	8.3			0.20	5.02	3.88	2.70	334	0.31	0.27	-0.012	4.76	338.6	346.9	NC
180.8	10.1			0.21	4.40	3.60	2.55	340	0.13	0.22	-0.016	4.42	338.8		
145.8	11.0			0.23	4.92	3.89	2.82	331	0.12	0.24	-0.016	4.17	338.3	346.9	NC
98.9	0.5			0.24	4.65	3.51	2.65	131	0.54	0.27	-0.013	5.80	339.6		
64.5	-3.2			0.29	4.28	3.36	2.41	22	0.36	0.24	-0.012	4.96	342.2	346.7	NC
30.4	-8.4			0.32	4.45	3.33	2.38	18	0.82	0.28	-0.008	5.69	342.3		
18.4	-10.4			0.35	4.71	3.63	2.53	35	0.32	0.26	-0.006	4.37	341.9	346.5	NC
4.5	-9.5			0.32	5.00	3.76	2.62	31	0.72	0.31	0.002	5.65	341.6		
-15.5	-13.1				4.65	3.33	2.30	38	1.42	0.32	0.005	5.79	341.5	347.1	D
-12.8	-11.8				4.97	3.67	2.71	50	0.66	0.30	0.007	5.30	341.8		
332.0	65.2			0.50	6.91	5.08	3.76	340	1.63	0.46	0.019	7.85	342.3	349.7	
-23.8	-13.1			0.16	4.28	3.27	2.14	18	0.05	0.22	-0.055	3.74	334.5	346.5	
118.8	17.2			0.21	5.47	4.14	2.96	174	0.44	0.30	-0.010	5.41	338.4	347.4	
10.3	1.5														

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	0.7	5.0	99.0	0.8	5.0	96.8	0.7	4.9	97.4	3.5	2.2			0.0	0.0
030	0.9	5.1	98.1	0.9	5.4	100.0	0.8	5.0	98.3	3.1	2.0			0.0	0.0
100	0.6	5.3	100.0	1.1	5.0	96.6	0.8	5.1	100.0	2.6	1.6			0.0	0.0
130	1.0	4.9	94.1	1.0	5.0	97.3	0.8	5.2	100.0	2.3	1.4			0.0	0.0
200	1.5	4.8	90.5	1.2	5.6	100.0	1.2	5.0	96.1	2.2	1.3			0.0	0.0
230	1.4	4.9	91.6	1.3	5.1	97.3	1.3	5.0	94.1	2.0	1.3			0.0	0.0
300	1.4	5.2	97.3	1.6	5.0	92.4	1.6	4.9	91.3	1.9	1.2			0.0	0.0
330	1.6	4.9	91.5	1.5	5.0	93.4	1.6	4.8	89.6	1.9	1.2			0.0	0.0
400	1.5	4.9	91.8	1.5	5.1	94.6	1.5	4.9	91.0	1.8	1.2			0.0	0.0
430	1.5	4.7	88.5	1.5	4.9	91.8	1.7	4.7	87.8	1.9	1.2			0.0	0.0
500	1.4	4.8	91.0	1.5	5.1	94.8	1.6	4.7	86.1	2.1	1.5			0.0	0.0
530	1.5	4.7	87.2	1.2	5.2	98.7	1.1	4.8	92.9	2.8	2.2			0.0	0.0
600	1.5	4.7	87.0	1.5	5.0	93.5	1.5	4.6	86.4	3.0	2.5			0.0	0.0
630	2.1	4.8	85.7	2.0	4.6	84.2	1.6	5.0	92.5	2.8	2.3			4.1	2.6
700	2.1	4.7	84.6	1.8	4.6	83.6	1.4	5.2	96.9	2.6	2.1			6.2	4.1
730	1.7	5.0	92.7	1.7	4.8	87.9	1.6	5.2	95.5	2.2	1.6			40.5	7.5
800	2.3	4.8	84.9	2.2	4.9	86.8	2.7	4.6	80.0	2.2	1.6			96.7	22.9
830	2.9	4.2	71.9	3.0	4.7	79.2	3.1	5.0	83.2	2.2	1.2			64.4	13.1
900	2.8	5.0	84.9	3.2	4.8	79.2	2.9	5.6	95.7	2.1	1.1			96.7	18.3
930	3.0	5.3	90.0	3.3	5.3	87.9	3.0	5.6	94.9	2.2	0.9			114.6	17.9
1000	4.0	5.3	82.9	4.2	5.5	85.0	4.7	5.4	81.0	2.2	0.7			202.6	35.6
1030	4.8	4.9	73.2	5.0	5.1	75.1	5.2	5.5	80.3	2.3	0.3			166.2	29.4
1100	5.7	5.6	79.4	6.0	5.6	77.7	6.1	5.9	80.4	2.2	0.0			203.9	36.3
1130							7.5	6.1	75.9	2.9	0.3			302.6	54.3
1200	8.1	5.6	67.8	8.6	5.7	66.5	9.4	6.0	67.2	3.0	-0.5			394.8	74.1
1230	9.2	5.8	65.7	9.5	6.2	67.9	10.3	6.7	70.1	3.7	-0.6			448.0	76.8
1300	9.7	6.4	69.3	10.2	6.4	67.7	11.6	6.7	64.8	4.4	-0.8			456.2	78.0
1330	9.9	6.2	66.8	10.3	6.4	67.6	11.4	7.0	68.0	4.6	-1.4			456.8	80.0
1400	10.6	6.3	64.9	11.1	6.5	65.1	12.0	6.9	65.4	4.8	-1.8			476.8	82.8
1430	11.7	6.5	62.4	12.2	6.6	61.2	12.8	6.9	61.5	6.5	-0.6			498.5	84.4
1500	12.0	7.0	66.2	12.1	7.1	66.2	13.4	6.7	58.3	7.5	0.0			480.7	80.3
1530	12.3	6.6	60.6	12.6	6.3	57.3	13.6	6.7	57.2	7.9	0.3			486.5	81.1
1600	10.6	6.8	70.3	10.8	6.7	68.1	11.8	6.9	65.6	6.9	-1.0			472.6	82.0
1630	9.5	6.3	69.3	9.7	6.5	70.2	11.1	7.1	70.8	7.8	0.0			449.5	80.2
1700	9.0	5.9	67.0	9.1	6.1	69.0	9.9	7.0	75.1	8.4	0.9			420.7	75.4
1730	8.6	6.1	71.2	8.7	5.9	68.9	9.5	6.8	75.4	8.3	1.2			388.2	71.8
1800	7.6	5.9	74.0	7.6	6.2	77.4	8.5	6.3	74.0	8.1	1.4			256.7	49.4
1830	7.4	5.9	74.0	7.6	6.4	79.5	8.4	6.6	77.6	8.0	1.7			289.8	55.4
1900	7.4	6.1	77.7	7.2	6.4	81.3	8.1	6.3	75.4	7.5	1.6			219.8	46.8
1930	5.9	6.1	85.5	6.0	6.3	87.5	6.4	6.6	89.1	7.4	2.0			162.4	35.6
2000	4.8	5.6	84.5	5.0	5.5	80.8	5.2	5.7	82.2	7.4	2.5			112.8	22.9
2030	4.1	5.2	81.8	4.1	5.5	87.0	4.2	5.7	88.0	7.2	2.8			73.7	13.9
2100	3.2	5.7	94.3	3.3	6.0	100.0	3.1	5.7	95.7	6.9	3.0			51.3	10.3
2130	2.8	5.4	92.9	3.2	5.3	87.9	3.1	5.7	95.6	6.7	3.3			38.0	7.3
2200	3.0	5.2	88.7	2.6	5.5	95.9	2.9	5.4	92.0	6.3	3.3			21.9	6.3
2230	3.0	5.4	91.2	2.9	5.5	92.9	2.7	5.5	94.3	5.8	3.1			16.3	4.5
2300	3.0	5.2	88.1	2.8	5.5	94.9	2.6	5.7	98.9	5.2	2.9			2.5	0.0
2330	2.9	5.2	88.8	2.7	5.5	94.8	2.6	5.7	98.4	4.7	2.6			1.1	0.0
Max	12.3	7.0	100.0	12.6	7.1	100.0	13.6	7.1	100.0	8.4	3.3			498.5	84.4
Min	0.6	4.2	60.6	0.8	4.6	57.3	0.7	4.6	57.2	1.8	-1.8			0.0	0.0
Ave	4.8	5.5	82.1	4.9	5.6	83.6	5.2	5.7	83.9	4.4	1.2			166.1	30.0
Sum														14.4	2.6

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-21.9	-12.1				5.20	3.90	2.86	46	0.61	0.31	0.001	5.22	341.8	347.8 D
-3.2	-9.6				5.38	4.03	2.97	51	0.56	0.32	0.003	5.39	342.2	
-3.7	-7.6				5.28	3.99	3.09	59	0.39	0.30	-0.004	5.85	342.8	348.8 D
-10.4	-7.6				5.36	3.93	2.87	68	0.76	0.33	0.005	5.90	343.8	
-13.6	-7.1				5.50	4.18	2.94	70	0.24	0.29	0.006	3.81	343.9	348.1 V
-7.5	-6.3				6.32	4.82	3.23	70	0.33	0.35	0.002	4.99	343.0	
2.1	-4.0				6.68	4.92	3.40	75	0.51	0.39	-0.003	6.31	342.3	346.9
-4.0	-4.0				6.83	5.20	3.62	79	0.25	0.36	0.000	5.09	342.1	
0.2	-3.9				7.73	5.52	3.81	79	1.29	0.52	0.000	9.22	341.5	346.9 NC
-1.5	-3.6				7.46	5.78	3.90	82	0.27	0.40	-0.002	5.97	341.6	
-5.3	-3.7				7.39	5.39	3.83	92	0.96	0.48	-0.002	8.97	341.4	346.6
-11.6	-5.0				8.29	5.75	4.26	99	1.16	0.54	0.004	8.59	341.7	
0.9	-3.6				7.76	5.84	4.32	105	0.28	0.41	0.000	6.24	341.1	346.4 NC
4.8	-1.8				7.04	5.02	3.53	110	1.19	0.47	0.005	8.30	340.3	
10.8	-0.7			0.66	6.52	4.68	3.40	112	0.92	0.41	0.011	6.90	340.1	346.1 D
38.7	2.0			0.18	5.76	4.46	3.02	122	0.26	0.31	0.001	4.32	339.3	
73.3	8.0			0.24	6.48	4.73	3.31	118	0.77	0.40	-0.004	7.39	339.0	346.5 D
51.0	8.6			0.20	5.88	4.34	3.23	121	0.41	0.33	-0.004	5.61	338.7	
74.1	10.4			0.19	5.64	4.31	3.06	127	0.22	0.30	0.000	4.47	338.4	346.9
73.4	12.0			0.16	5.24	3.81	2.80	129	0.75	0.33	0.001	5.91	338.2	
164.1	25.7			0.18	5.06	3.83	2.82	128	0.39	0.28	-0.016	5.77	337.4	346.8 NC
112.8	27.2			0.18	4.88	3.56	2.70	125	0.70	0.30	-0.010	6.22	337.4	
121.1	26.1			0.18	4.62	3.51	2.68	133	0.28	0.25	-0.017	4.85	337.4	
189.9	33.7			0.18	4.07	3.38	2.47	146	0.07	0.19	-0.107	6.58	335.7	
250.2	54.2			0.19	4.23	3.38	2.45	148	0.11	0.20	-0.043	4.55	334.4	347.1 D
276.6	65.2			0.17	3.47	2.99	2.07	169	0.11	0.18	-0.041	4.30	334.9	
284.3	67.2			0.17	3.28	2.83	2.04	163	0.05	0.15	-0.114	5.10	334.6	346.8
286.5	70.6			0.18	2.17	1.70	1.33	148	0.07	0.10	-0.225	4.67	336.7	
298.3	70.8			0.17	2.26	1.94	1.37	155	0.06	0.10	-0.152	4.27	336.8	346.6 NC
313.0	67.2			0.17	3.16	2.63	1.89	178	0.08	0.15	-0.060	4.05	335.9	
301.5	60.9			0.17	3.31	2.77	1.99	166	0.07	0.15	-0.081	4.44	335.1	346.5 NC
304.7	60.6			0.17	2.59	2.17	1.71	183	0.02	0.10	-0.142	4.10	334.8	
293.8	63.7			0.17	2.58	2.04	1.48	42	0.13	0.13	-0.098	4.08	339.6	346.5 NC
280.3	55.8			0.18	2.56	2.10	1.68	60	0.02	0.10	-0.193	4.69	341.4	
260.2	45.4			0.18	2.77	2.28	1.77	66	0.03	0.12	-0.084	3.56	342.2	346.8 D
241.9	38.3			0.19	2.74	2.15	1.58	74	0.49	0.16	-0.058	5.33	343.0	
142.1	21.6			0.19	2.77	2.20	1.65	76	0.08	0.13	-0.075	3.57	342.7	347.7 A
177.5	19.3			0.19	2.80	2.21	1.65	77	0.10	0.13	-0.080	3.89	342.1	
121.6	15.7			0.21	3.06	2.32	1.80	77	0.39	0.17	-0.052	5.20	342.3	347.8 A
78.0	6.8			0.22	3.42	2.70	1.91	79	0.19	0.18	-0.024	3.62	341.6	
48.4	2.3			0.20	3.63	2.71	2.04	75	0.43	0.21	-0.022	4.52	340.4	347.6 D
32.5	-0.1			0.19	3.36	2.65	1.93	65	0.15	0.17	-0.004	2.79	339.3	
24.3	-3.0			0.20	3.96	2.88	2.15	69	0.71	0.24	0.004	4.11	337.7	346.9
13.2	-6.5			0.19	4.04	2.98	2.16	81	0.76	0.25	-0.012	4.90	337.7	
-0.2	-8.8			0.29	3.92	2.94	2.00	87	0.63	0.24	0.003	4.00	336.9	346.8 NC
-6.7	-10.0			0.28	3.88	2.83	1.97	86	1.07	0.25	0.011	4.61	336.9	
-8.6	-9.5				3.65	2.72	1.90	81	1.03	0.24	0.015	4.58	337.0	346.9 NC
-9.6	-9.6				3.75	2.67	1.90	88	1.18	0.25	0.011	4.48	337.4	
313.0	70.8			0.66	8.29	5.84	4.32	183	1.29	0.54	0.015	9.22	343.9	348.8
-21.9	-12.1			0.16	2.17	1.70	1.33	42	0.02	0.10	-0.225	2.79	334.4	346.1
100.8	16.9			0.21	4.66	3.53	2.55	101	0.45	0.26	-0.034	5.23	339.4	347.0
8.7	1.5													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	2.8	5.4	93.0	2.5	5.5	96.0	2.7	5.5	94.5	4.4	2.6			0.0	0.0
030	2.8	5.3	90.9	2.5	5.4	94.9	2.4	5.6	98.2	4.2	2.6			0.0	0.0
100	2.6	5.1	88.3	2.3	5.2	92.4	2.0	5.3	95.4	3.9	2.5			0.0	0.0
130	2.6	5.0	86.8	2.3	5.3	94.1	2.0	5.4	96.7	3.7	2.4			0.0	0.0
200	2.6	5.0	86.6	2.1	5.5	99.2	1.8	5.3	97.6	3.5	2.5			0.0	0.0
230	2.4	5.0	88.1	2.1	5.2	93.2	1.7	5.3	98.4	3.8	2.9			0.0	0.0
300	2.5	4.9	86.5	2.0	5.2	93.5	2.1	5.1	91.1	3.8	2.8			0.0	0.0
330	2.7	4.6	79.5	2.3	5.1	90.5	2.2	4.9	87.8	3.2	2.3			0.0	0.0
400	2.8	4.9	83.2	2.8	4.8	82.7	2.6	5.0	85.8	2.8	2.0			0.0	0.0
430	2.8	4.6	78.3	2.1	5.3	94.7	2.2	5.0	89.5	2.8	2.1			0.0	0.0
500	2.3	4.8	85.6	2.1	5.0	89.1	1.8	5.2	95.3	3.2	2.5			0.0	0.0
530	2.2	4.8	85.9	1.8	5.2	94.6	1.5	5.4	100.0	3.4	2.7			0.1	-1.9
600	2.2	4.9	87.8	2.2	5.0	89.6	1.6	5.3	98.9	3.4	2.8			5.5	1.8
630	2.3	4.9	86.4	2.0	5.1	91.9	1.5	5.5	100.0	3.6	3.0			10.1	3.1
700	2.2	4.9	88.1	2.0	5.1	92.7	2.0	5.0	90.8	3.6	3.0			25.4	4.0
730	2.8	5.3	91.0	3.0	5.5	91.8	3.0	5.4	91.2	3.3	2.6			49.0	9.1
800	2.9	5.8	98.9	3.1	5.7	95.6	3.0	5.8	98.2	3.2	2.3			57.0	11.1
830	2.9	4.9	83.6	2.7	5.2	90.5	2.8	5.2	89.1	3.5	2.5			57.7	13.2
900	2.9	5.5	93.2	3.1	5.7	95.1	3.3	5.5	91.0	3.1	2.1			161.1	36.7
930	3.1	5.7	95.1	3.4	5.7	94.4	3.4	5.5	90.0	3.1	1.8			178.5	40.0
1000	3.1	5.8	98.0	3.4	5.9	97.1	3.3	5.8	95.1	3.6	2.1			171.5	31.7
1030	3.1	5.6	93.5	2.9	6.5	100.0	3.2	6.2	100.0	6.9	5.0			106.1	27.0
1100															
1130	2.8	6.0	100.0	3.2	5.9	98.3	3.1	5.6	94.2	3.2	1.9			80.0	8.9
1200	3.1	5.6	93.3	3.4	5.8	96.2	3.5	5.5	90.1	1.2	-0.8			152.6	24.4
1230	3.6	5.8	93.2	4.0	5.7	90.5	4.6	5.3	80.4	1.1	-1.0			294.4	48.4
1300	3.8	5.7	91.3	4.1	5.6	87.9	5.0	5.2	76.8	1.8	-0.6			305.9	51.4
1330	5.0	5.2	77.2	5.4	5.1	73.2	5.7	5.5	78.0	2.1	-0.7			397.2	74.9
1400	4.3	5.2	80.3	4.5	5.3	80.7	5.1	5.5	80.6	2.9	0.0			264.3	42.4
1430				4.5	5.2	79.0	5.0	5.4	79.3	6.0	3.0			233.7	37.7
1500	4.4	5.4	82.8	4.5	5.4	82.0	5.2	5.3	78.0	4.5	1.5			227.7	36.5
1530	5.0	5.8	85.2	5.5	5.3	75.6	6.1	5.8	80.4	3.9	1.0			239.6	37.8
1600	4.8	5.3	78.9	5.1	5.3	77.4	5.2	5.8	84.8	4.3	1.3			133.8	22.3
1630	4.8	5.5	83.1	5.1	5.4	79.8	5.3	5.7	83.1	4.7	1.9			128.3	21.1
1700	5.6	6.2	88.3	6.0	6.4	88.0	6.1	6.4	88.2	4.6	1.8			123.3	20.3
1730	6.5	6.7	89.2	6.4	7.1	95.3	7.0	6.5	84.0	4.5	1.5			120.3	19.8
1800	5.9	6.3	88.2	5.9	6.6	91.4	6.0	6.7	92.1	5.0	1.9			111.2	19.0
1830	7.3	6.2	78.6	7.3	6.6	84.1	7.8	6.3	77.3	5.1	2.0			152.7	25.6
1900	9.1	6.7	75.8	9.3	6.8	76.4	9.3	7.3	81.7	5.0	1.5			207.5	37.3
1930	9.5	7.6	83.5	9.5	7.9	87.3	9.9	7.4	79.8	5.1	1.5			107.0	17.9
2000	9.7	7.5	81.2	9.7	8.0	86.9	10.2	7.8	82.5	5.2	1.5			145.3	28.8
2030	10.1	7.9	83.8	10.3	7.6	79.6	10.5	7.9	81.9	5.7	1.7			158.2	37.2
2100	9.1	7.1	79.6	9.2	7.3	82.1	9.3	7.3	82.0	7.7	3.9			127.5	35.8
2130	9.1	7.3	82.0	9.2	7.1	79.0	9.2	7.1	79.9	6.4	2.8			80.6	28.3
2200	7.3	6.9	87.4	7.4	6.8	86.2	7.3	6.7	84.7	6.0	2.6			44.6	18.1
2230	5.7	6.8	96.0	5.7	6.4	90.9	5.4	6.7	96.2	5.5	2.5			28.7	14.3
2300	4.5	6.2	94.1	4.4	6.0	92.0	4.1	6.1	95.7	4.9	2.3			12.5	8.8
2330	3.8	5.7	91.8	3.3	6.0	98.3	3.0	5.8	98.1	4.6	2.4			3.2	3.8
Max	10.1	7.9	100.0	10.3	8.0	100.0	10.5	7.9	100.0	7.7	5.0			397.2	74.9
Min	2.2	4.6	75.8	1.8	4.8	73.2	1.5	4.9	76.8	1.1	-1.0			0.0	-1.9
Ave	4.4	5.7	87.2	4.4	5.8	89.2	4.5	5.8	89.0	4.1	2.0			100.0	19.1
Sum														8.6	1.6

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
-12.2	-9.1				3.88	2.78	1.89	85	1.18	0.26	0.004	4.53	337.2	346.9	NC
-26.0	-10.0				3.92	2.84	1.99	90	1.14	0.26	0.014	4.78	337.4		
-35.3	-12.1				4.05	2.97	2.04	88	1.14	0.27	0.021	4.86	338.0	347.5	D
-31.4	-11.2				4.23	2.92	2.11	91	1.36	0.28	0.022	4.74	338.2		
-41.7	-12.4				4.56	3.25	2.22	93	1.55	0.32	0.019	5.58	338.6	346.8	V
-18.9	-9.5				5.27	3.84	2.83	99	0.68	0.32	0.015	5.65	338.2		
-12.1	-6.4				5.41	3.80	2.92	97	0.87	0.34	0.009	5.81	336.9	346.6	D
-11.2	-5.9				4.28	2.95	2.11	90	1.45	0.29	0.015	4.76	337.2		
-21.0	-6.7				4.29	3.07	2.18	92	1.16	0.28	0.007	4.91	337.5		I
-16.6	-6.6				4.33	3.25	2.27	82	0.83	0.27	0.019	4.89	337.6		
-18.5	-6.6				5.12	3.64	2.58	74	1.26	0.34	0.013	5.46	336.4	346.1	A
-26.1	-7.7				5.37	3.93	2.86	86	0.83	0.33	0.019	5.51	336.1		
-22.1	-7.4			0.33	5.90	4.33	3.07	86	0.92	0.38	0.009	6.92	335.8	346.0	A
-8.4	-5.0			0.31	6.43	4.97	3.28	84	0.33	0.35	0.010	5.14	335.1		
7.1	-2.4			0.16	6.70	4.89	3.58	80	0.78	0.41	0.004	7.20	335.0	346.2	A
29.7	2.7			0.19	6.68	4.86	3.41	83	1.04	0.43	-0.002	7.86	334.5		
35.2	5.6			0.20	7.22	5.31	4.16	84	0.46	0.41	-0.001	6.96	334.7	346.5	D
4.6	0.6			0.23	7.42	5.54	4.09	92	0.21	0.38	0.001	5.02	335.0		
74.0	5.6			0.23	7.75	5.80	4.02	95	0.31	0.42	-0.003	6.13	334.4		I
102.5	12.5			0.22	8.23	6.07	4.35	97	0.31	0.45	-0.002	6.92	334.4		
115.8	16.5			0.19	8.43	6.67	4.69	100	0.15	0.42	-0.002	6.16	334.5	346.8	
70.5	18.4			0.25											
														347.0	NC
71.9	9.3			0.11											
135.5	14.3			0.16									334.7	347.3	A
226.4	30.5		626.6	0.16	9.43	6.08	4.59	115	1.93	0.66	-0.008	10.46	334.0		
240.9	27.3		732.5	0.17	8.79	6.61	4.92	123	0.18	0.44	-0.012	6.93	333.6	347.4	A
284.5	35.6		978.2	0.19	9.34	6.99	5.21	122	0.22	0.48	-0.006	7.22	333.7		
215.9	24.9		662.2	0.16	9.01	6.69	4.94	125	0.30	0.49	-0.007	7.68	333.8	347.3	NC
187.9	21.3		586.9	0.16	8.29	6.11	4.55	125	0.48	0.48	-0.006	8.23	329.1		
186.7	19.0		580.6	0.16	7.99	5.95	4.38	126	0.33	0.44	-0.008	7.25	326.8	347.1	NC
190.5	23.5		619.0	0.16	7.53	5.56	4.12	129	0.42	0.43	-0.013	7.77	326.1		
112.0	13.7		361.0	0.17	7.49	5.45	4.03	132	0.74	0.46	-0.005	8.46	326.1	347.1	NC
112.6	11.6		344.4	0.16	6.85	5.00	3.72	131	0.71	0.42	-0.008	7.96	326.1		
110.4	16.2		348.1	0.16	5.59	4.09	3.04	134	0.68	0.34	-0.010	6.66	325.5		I
98.6	18.4		320.5	0.16	4.73	3.48	2.57	128	0.68	0.29	-0.014	5.99	325.3		
95.4	16.5		301.4	0.17	5.20	3.87	2.84	123	0.53	0.31	-0.003	5.41	326.8		I
126.4	20.1		390.8	0.17	4.59	3.45	2.51	139	0.33	0.25	-0.015	4.75	324.8		
145.5	26.2		522.4	0.18	4.59	3.48	2.56	141	0.24	0.24	-0.007	4.12	323.8		I
76.7	22.3		279.4	0.17	4.02	3.04	2.24	145	0.31	0.22	-0.015	4.22	323.4		
106.3	24.8		363.9	0.20	4.22	3.12	2.29	138	0.68	0.26	-0.017	5.59	324.3		I
79.8	19.2		389.5	0.24	4.52	3.28	2.43	137	0.78	0.28	-0.014	5.71	324.7		
33.4	9.5		310.1	0.28	4.05	2.96	2.18	132	0.77	0.25	-0.005	4.80	325.8		I
-0.4	5.1		212.4	0.35	3.73	2.73	2.00	139	0.77	0.23	0.000	4.25	326.0		
-27.4	1.6		126.0	0.41	3.89	2.73	1.99	130	1.15	0.26	0.000	4.45	327.6		I
-40.3	-4.0		70.6	0.50	3.21	2.12	1.51	132		0.23	0.015	3.82	329.5		
-43.1	-8.3		37.1	0.70	2.72	1.70	1.16	132		0.22	0.025	3.53	331.3		I
-39.6	-10.3		15.6	1.19	2.66	1.58	0.97	150		0.23	0.043	3.77	332.3		
284.5	35.6		978.2	1.19	9.43	6.99	5.21	150	1.93	0.66	0.043	10.46	338.6	347.5	
-43.1	-12.4		15.6	0.11	2.66	1.58	0.97	74	0.15	0.22	-0.017	3.53	323.4	346.0	
60.1	7.0		399.1	0.26	5.73	4.18	3.03	111	0.74	0.34	0.002	5.88	332.0	346.9	
5.2	0.6														

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	3.0	5.7	95.4	3.1	5.6	94.2	2.2	5.7	100.0	4.3	2.5			0.0	0.0
030	3.1	5.8	97.0	3.0	5.9	99.8	2.4	5.6	98.6	4.1	2.6			0.0	0.0
100	2.7	6.1	100.0	2.5	5.7	98.9	1.6	5.3	97.9	3.7	2.5			0.0	0.0
130	2.5	5.8	100.0	2.0	5.5	99.5	1.4	5.0	95.0	2.7	1.8			0.0	0.0
200	2.3	5.7	100.0	2.0	5.6	100.0	1.4	5.4	100.0	2.2	1.6			0.0	0.0
230	2.5	5.6	97.6	1.7	5.4	99.5	0.2	4.9	99.4	2.0	1.5			0.0	0.0
300	1.4	5.5	100.0	1.2	5.1	98.2	-0.1	4.6	96.4	1.1	0.9			0.0	0.0
330	1.9	5.5	99.6	1.4	5.4	100.0	0.0	4.6	96.3	1.1	1.0			0.0	0.0
400	1.6	5.3	99.4	1.0	5.0	97.7	-0.3	4.5	95.9	1.2	1.3			0.0	0.0
430	2.5	5.5	95.6	1.4	5.3	99.3	-0.3	4.5	94.5	1.1	1.3			0.0	0.0
500	1.7	5.2	96.2	1.1	5.3	100.0	0.3	4.6	92.6	0.9	1.2			0.0	0.0
530	1.4	5.5	100.0	1.2	5.2	98.7	0.3	4.7	95.4	0.7	1.1			0.0	0.0
600	1.3	5.4	100.0	1.0	5.0	97.4	0.5	5.0	100.0	1.2	1.6			3.6	4.9
630	2.1	5.3	94.3	1.6	5.0	93.1	1.0	5.0	97.0	1.7	2.2			11.5	5.8
700	1.9	5.6	100.0	1.6	5.1	93.8	1.0	5.1	97.9	1.5	2.0			24.6	10.8
730	2.6	5.6	97.9	2.5	5.4	93.8	2.4	5.3	93.6	1.3	1.7			42.3	16.2
800	3.2	5.6	93.6	3.3	5.8	96.2	3.2	5.9	97.5	1.4	1.6			79.8	33.6
830	4.9	6.1	90.4	5.0	5.8	86.2	5.0	6.0	89.2	1.9	1.7			111.3	34.9
900	3.6	5.4	87.1	3.4	5.7	93.9	3.3	5.7	95.1	3.4	2.8			85.6	18.0
930	4.3	5.4	84.0	4.2	5.5	85.8	4.4	5.7	87.8	3.8	3.0			130.9	23.8
1000	5.0	5.5	81.5	5.3	5.5	79.7	5.3	5.9	85.4	3.7	2.5			208.4	43.0
1030	5.0	5.1	75.0	5.2	5.3	76.5	5.5	5.8	82.5	3.9	2.2			268.4	47.4
1100	5.5	5.8	81.9	5.9	5.9	81.7	6.2	6.2	84.7	3.9	1.7			326.3	65.2
1130	5.9	5.8	80.8	6.1	6.2	84.6	6.6	6.1	80.3	4.0	1.2			258.7	46.4
1200	5.6	5.6	80.0	5.7	5.9	82.7	6.0	6.1	84.8	4.5	1.5			263.0	46.7
1230	5.6	5.8	82.5	5.9	5.6	78.1	6.3	6.0	81.4	5.0	1.8			271.0	45.1
1300	5.7	5.4	76.6	5.9	5.5	76.7	6.1	6.0	82.1	5.0	1.7			266.9	42.1
1330	5.6	5.7	80.3	5.9	5.8	79.9	6.7	5.8	76.4	5.2	1.8			387.6	66.2
1400															
1430	6.5	6.0	79.5	6.6	6.0	80.1	7.3	5.7	72.6	6.4	2.7			234.4	36.5
1500	5.8	5.9	82.5	6.1	5.7	78.2	6.3	6.0	81.6	5.7	2.0			189.3	28.3
1530	5.6	5.4	76.6	5.8	5.2	72.8	6.1	5.8	79.5	5.6	2.1			266.7	43.2
1600	5.2	5.2	75.4	5.5	4.9	69.6	5.5	5.7	81.3	5.9	2.5			239.1	39.3
1630	5.0	5.1	75.5	5.4	5.1	72.7	5.5	5.6	80.0	6.3	3.0			246.2	38.9
1700	4.9	5.3	78.1	5.2	5.2	75.4	5.8	5.6	78.1	5.9	2.7			292.5	47.4
1730	5.1	5.1	74.7	5.4	5.0	71.1	5.7	5.5	78.1	5.7	2.4			265.2	42.9
1800	4.8	5.0	75.5	4.9	5.0	74.6	5.2	5.3	76.4	5.6	2.4			163.8	29.4
1830	4.5	4.9	75.3	4.6	5.1	77.0	4.8	5.1	76.8	5.4	2.4			101.2	20.2
1900	4.2	4.7	73.6	4.2	5.1	80.2	4.5	5.3	80.9	5.2	2.5			111.1	19.3
1930	3.7	5.1	82.0	3.6	5.7	92.2	4.2	4.9	75.5	5.1	2.5			122.9	24.1
2000	3.5	5.5	90.6	3.4	6.0	98.1	3.6	5.1	82.5	5.0	2.6			100.8	20.6
2030	2.8	5.9	100.0	2.9	6.0	100.0	3.3	5.6	92.5	5.0	2.7			98.1	16.8
2100	2.9	5.4	92.3	3.2	5.3	88.8	2.8	6.0	100.0	4.6	2.5			54.3	11.9
2130	2.5	5.6	97.5	2.6	5.3	92.4	2.6	5.4	93.3	4.6	2.6			32.7	9.2
2200	2.2	5.1	91.7	2.1	5.4	95.8	2.2	5.2	93.0	4.8	3.1			13.9	4.3
2230	1.9	5.1	92.4	1.9	5.1	92.7	2.2	5.3	93.8	7.3	5.8			7.5	2.7
2300	1.8	4.7	85.5	1.3	5.2	98.4	1.6	5.3	97.5	7.9	6.5			2.7	3.3
2330	2.0	4.8	87.2	1.6	5.4	99.6	1.8	5.4	99.0	7.2	6.0			0.0	0.0
Max	6.5	6.1	100.0	6.6	6.2	100.0	7.3	6.2	100.0	7.9	6.5			387.6	66.2
Min	1.3	4.7	73.6	1.0	4.9	69.6	-0.3	4.5	72.6	0.7	0.9			0.0	0.0
Ave	3.6	5.4	88.4	3.5	5.4	88.9	3.4	5.4	89.2	3.9	2.3			112.4	21.0
Sum														9.7	1.8

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm
-39.6	-12.8		5.2		2.49	1.29	0.62	170		0.26	0.038	4.13	337.4	I
-43.8	-13.5		1.7		2.67	1.36	0.66	164		0.28	0.033	4.21	339.2	
-39.4	-14.3		1.4		2.56	1.13	0.47	175		0.30	0.044	4.24	342.2	I
-36.3	-15.3		0.9		2.13	1.09	0.51	146		0.23	0.067	3.57	345.0	
-26.9	-12.7		1.0		1.96	0.77	0.13	160		0.27	0.044	4.00	345.5	I
-35.2	-15.0		1.7		1.63	0.57	0.04	166		0.24	0.141	3.55	348.2	
-33.4	-16.0		0.9		1.98	0.76	0.18	147		0.26	0.077	3.96	355.6	I
-33.6	-14.4		0.8		1.61	0.59	0.03	153		0.23	0.136	3.31	354.2	
-30.9	-13.5		1.6		1.25	0.65	0.15	179		0.16	0.201	2.72	362.7	I
-34.9	-13.1		1.6		1.64	0.55	0.16	122		0.23	0.204	3.21	357.1	
-38.5	-12.5		2.8		1.92	0.81	0.37	131		0.23	0.132	2.89	352.2	I
-36.2	-12.0		6.9		1.57	0.53	0.18	112		0.22	0.115	2.73	345.5	
-36.1	-11.5		17.3		2.42	1.10	0.51	117		0.28	0.038	4.02	340.1	I
-33.4	-10.9		37.1		2.48	1.32	0.75	116		0.24	0.067	3.62	335.7	
-18.6	-10.1		69.1	0.44	2.02	0.99	0.46	112		0.23	0.062	3.46	333.9	I
-7.0	-9.2		112.1	0.38	2.43	1.44	0.92	117		0.21	0.016	3.28	332.0	
9.4	-6.9		196.9	0.42	2.04	1.16	0.67	106		0.19	-0.001	3.11	331.0	I
28.2	5.4		270.1	0.31	3.31	2.35	1.64	102	1.29	0.22	-0.003	4.05	330.7	
20.5	8.7		210.0	0.21	4.39	3.14	2.22	99	1.12	0.29	0.010	4.92	330.0	I
63.8	15.9		330.5	0.18	5.19	3.82	2.73	110	0.66	0.31	-0.002	5.45	330.2	
124.9	23.1		556.9	0.21	5.72	4.30	3.13	109	0.34	0.31	-0.006	5.28	330.2	I
176.1	31.3		680.9	0.18	6.29	4.75	3.50	115	0.23	0.33	-0.009	5.33	330.5	
223.0	43.8		840.2	0.20	6.45	4.89	3.61	114	0.19	0.33	-0.011	5.30	331.1	I
163.2	39.8		657.5	0.18	6.66	4.98	3.69	119	0.33	0.36	-0.012	6.40	331.4	
182.5	33.1		659.6	0.18	6.49	4.85	3.56	116	0.32	0.35	-0.007	5.81	331.4	347.4 D
186.2	32.0		676.8	0.17	6.77	5.05	3.70	113	0.36	0.37	-0.010	6.46	331.3	
192.8	26.2		649.3	0.16	7.32	5.51	4.07	115	0.21	0.38	-0.005	5.67	331.2	346.9
284.5	35.6		928.9	0.17	7.50	5.73	4.24	116	0.11	0.36	-0.013	5.39	330.0	
														347.1 NC
165.7	25.1		554.4	0.16	6.87	5.11	3.77	119	0.39	0.39	-0.006	6.39	329.9	
134.5	17.8		474.4	0.15	7.66	5.70	4.26	121	0.33	0.42	-0.003	6.56	328.4	346.7
199.6	20.6		656.6	0.16	8.24	6.19	4.56	118	0.21	0.42	-0.003	6.07	328.3	
170.6	19.3		596.3	0.16	8.14	6.14	4.52	114	0.19	0.41	-0.002	5.76	327.8	346.6 A
177.1	17.0		601.5	0.16	8.72	6.59	4.84	113	0.17	0.44	-0.002	5.99	327.6	
222.0	18.8		714.2	0.16	8.52	6.35	4.70	116	0.34	0.47	-0.004	7.34	327.6	346.4 A
204.5	20.6		662.5	0.16	8.97	6.69	4.91	118	0.29	0.48	-0.003	7.16	327.6	
133.0	13.9		422.5	0.18	8.40	6.23	4.62	121	0.36	0.47	-0.003	7.20	327.2	346.9 D
84.2	7.7		281.7	0.20	8.41	6.23	4.64	121	0.38	0.47	-0.001	7.29	327.9	
85.7	5.9		285.6	0.17	8.59	6.35	4.71	123	0.41	0.48	-0.001	7.60	327.7	347.3 D
96.1	5.8		325.0	0.20	8.12	6.01	4.44	123	0.41	0.46	-0.003	7.28	327.9	
71.2	4.7		273.9	0.20	8.06	5.93	4.41	125	0.47	0.46	-0.001	7.44	327.7	347.6
76.8	4.0		245.8	0.17	8.18	6.07	4.48	125	0.34	0.45	-0.003	6.95	328.3	
56.1	3.1		149.9	0.22	7.63	5.67	4.16	123	0.37	0.42	0.001	6.42	328.9	347.7 NC
40.0	-0.1		88.8	0.28	8.40	6.22	4.58	122	0.42	0.47	0.000	7.34	329.1	
21.9	-2.5		46.0	0.31	8.27	6.12	4.52	122	0.42	0.47	0.000	7.25	328.9	347.8 NC
7.3	-4.3		23.7	0.36	6.62	4.85	3.59	113	0.69	0.40	-0.002	7.00	328.1	
-3.9	-5.8		13.0		6.61	4.76	3.50	109	0.85	0.41	0.001	6.94	328.6	347.9 NC
1.0	-4.9		5.9		6.13	4.42	3.25	111	0.83	0.38	0.001	6.39	328.6	
284.5	43.8		928.9	0.44	8.97	6.69	4.91	179	1.29	0.48	0.204	7.60	362.7	347.9
-43.8	-16.0		0.8	0.15	1.25	0.53	0.03	99	0.11	0.16	-0.013	2.72	327.2	346.4
65.4	5.3		283.9	0.22	5.35	3.77	2.67	125	0.43	0.34	0.028	5.33	334.7	347.2
5.7	0.5													

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	2.3	5.0	88.7	1.9	5.2	95.1	1.9	5.2	93.9	6.7	5.7			0.0	0.0
030	2.6	4.8	82.4	2.0	5.3	96.3	1.9	5.4	98.0	6.2	5.3			0.0	0.0
100	2.8	4.9	83.9	2.3	5.5	97.0	2.4	5.5	96.3	5.2	4.3			0.0	0.0
130	2.8	5.9	100.0	3.0	5.2	88.5	2.8	5.5	93.6	4.3	3.4			0.0	0.0
200	2.9	5.9	100.0	3.2	5.8	96.1	3.2	5.5	91.2	3.9	3.0			0.0	0.0
230	2.8	5.5	93.7	3.0	6.0	100.0	3.1	5.9	99.2	4.2	3.3			0.0	0.0
300	3.1	5.5	92.5	2.7	6.1	100.0	3.1	5.9	99.6	2.9	1.9			0.0	0.0
330	3.1	5.4	91.2	3.1	5.9	98.7	3.1	5.9	100.0	2.5	1.4			0.0	0.0
400	2.3	5.5	96.5	2.5	5.3	92.3	2.5	5.7	99.2	4.0	3.0			0.0	0.0
430	2.3	6.0	100.0	3.0	5.4	90.9	2.8	5.5	93.5	4.2	3.2			0.0	0.0
500	1.9	5.8	100.0	2.0	6.6	100.0	2.8	5.7	97.3	3.4	2.4			0.0	0.0
530	2.2	5.5	97.9	2.8	5.5	94.6	2.7	5.6	96.3	4.6	3.6			0.0	0.0
600	2.5	5.7	99.6	2.6	6.1	100.0	3.1	5.7	96.2	4.2	3.3			0.3	2.5
630	3.1	5.3	89.1	2.8	6.0	100.0	3.2	5.9	99.0	3.9	3.0			3.5	2.8
700	3.5	5.0	82.1	2.9	5.7	96.6	2.9	6.0	100.0	3.2	2.2			8.5	3.9
730	4.0	5.2	81.4	3.8	5.9	95.1	3.2	5.7	95.8	2.8	1.7			12.1	3.2
800	3.5	6.4	100.0	3.6	5.7	93.1	3.8	5.9	94.9	2.8	1.6			23.4	5.4
830	4.3	5.9	91.4	4.0	6.2	98.3	4.5	6.2	94.9	2.1	0.9			23.7	5.9
900	4.7	6.0	90.8	5.1	6.2	91.9	5.2	6.4	93.9	2.1	0.6			34.2	8.0
930	5.4	6.1	87.3	4.7	6.6	98.7	5.6	6.6	94.2	2.6	0.9			39.8	8.0
1000	5.5	6.5	93.4	4.5	7.0	100.0	5.8	6.9	96.2	2.9	1.1			31.7	7.1
1030	6.4	8.0	100.0	6.2	6.5	88.4	5.7	7.0	97.8	1.5	-0.5			48.9	9.8
1100	4.3	6.5	100.0	4.7	6.1	91.4	5.0	6.6	97.8	3.0	0.8			66.1	10.9
1130	3.8	6.0	96.1	2.8	7.5	100.0	3.6	5.9	95.3	4.6	2.3			79.5	12.8
1200	2.8	6.4	100.0	3.0	6.3	100.0	3.8	6.8	100.0	5.1	2.7			107.9	16.7
1230	3.1	5.7	95.2	4.1	5.5	86.2	3.9	6.3	100.0	5.1	2.5			138.0	18.0
1300	3.7	6.6	100.0	4.9	5.4	80.8	5.0	6.5	96.2	5.0	2.0			183.7	24.1
1330	3.1	5.4	91.1	3.6	5.6	91.6	4.2	5.9	91.8	6.2	2.9			181.3	27.6
1400	3.6	5.9	95.1	3.9	5.7	90.2	4.5	5.9	89.7	6.7	3.4			190.0	29.5
1430	4.1	5.6	87.8	4.1	5.4	83.7	5.1	6.4	93.4	6.3	2.7			194.9	29.5
1500	3.7	5.9	95.2	4.2	5.9	91.6	4.4	6.2	95.8	5.9	2.2			161.9	24.4
1530	3.8	5.2	83.9	3.3	5.8	95.6	4.2	4.9	76.6	6.9	3.3			134.5	22.9
1600	3.7	5.4	87.3	3.1	5.9	99.2	4.0	5.5	86.4	6.5	3.0			158.7	24.8
1630	2.8	5.6	96.1	3.1	5.4	89.9	3.2	5.4	90.3	7.2	3.6			180.8	27.4
1700	2.3	4.7	83.0	2.8	5.1	86.8	3.3	5.3	87.7	7.2	3.8			178.1	26.7
1730	1.8	5.6	100.0	2.5	5.0	87.1	2.9	5.1	86.5	6.5	3.1			131.5	23.0
1800	1.8	4.9	90.2	1.9	5.0	90.8	2.4	5.0	88.5	5.4	2.2			118.2	18.5
1830	1.1	5.3	100.0	1.7	4.9	90.1	2.5	4.7	83.0	4.8	1.7			118.9	19.8
1900	2.0	4.7	84.7	1.6	4.9	90.5	1.5	5.0	93.1	5.5	2.6			67.1	13.2
1930	1.1	4.9	93.4	1.3	4.8	90.0	1.1	4.9	93.6	5.2	2.7			57.1	10.6
2000	0.7	5.2	100.0	1.1	4.9	95.2	0.9	5.2	100.0	4.8	2.5			41.8	9.1
2030	0.8	4.6	90.7	1.1	4.6	88.7	1.0	5.2	100.0	4.3	2.3			30.1	7.1
2100	0.6	4.8	95.9	0.7	4.8	95.0	0.8	4.9	95.9	4.2	2.3			12.8	4.7
2130	0.7	4.5	88.7	0.2	4.7	96.9	0.5	4.5	89.7	3.5	2.0			9.8	2.8
2200	0.0	4.3	88.2	0.3	4.9	98.8	0.3	4.7	94.3	3.2	1.8			7.4	3.5
2230	0.2	4.1	82.7	0.6	4.2	83.7	0.2	4.5	92.9	3.4	2.3			2.4	2.4
2300	-1.2	5.0	100.0	-0.2	4.6	95.9	-0.3	4.3	90.2	3.9	3.0			0.0	0.0
2330	0.3	4.7	93.6	-0.3	5.4	100.0	-0.1	4.9	100.0	3.8	3.0			0.0	0.0
Max	6.4	8.0	100.0	6.2	7.5	100.0	5.8	7.0	100.0	7.2	5.7			194.9	29.5
Min	-1.2	4.1	81.4	-0.3	4.2	80.8	-0.3	4.3	76.6	1.5	-0.5			0.0	0.0
Ave	2.7	5.5	92.9	2.7	5.6	93.8	3.0	5.6	94.4	4.5	2.5			57.9	9.7
Sum														5.0	0.8

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
-6.8	-4.7		2.5		6.52	4.70	3.48	110	0.81	0.41	0.003	6.74	328.8	348.2	D
3.8	-3.2		1.8		5.59	4.06	2.97	112	0.81	0.35	0.008	5.95	329.8		
2.6	-1.6		1.5		4.37	3.25	2.35	118	0.61	0.26	0.006	4.51	329.0	349.0	D
-1.9	-1.2		0.9		3.34	2.47	1.76	118	0.85	0.21	-0.001	3.86	330.0		
8.0	0.6		0.3		3.64	2.66	1.91	114	0.89	0.23	-0.008	4.53	330.7	349.6	D
7.4	1.9		0.5		3.10	2.33	1.67	122	0.59	0.19	-0.011	3.71	330.7		
9.1	2.5		0.0		1.84	1.29	0.85	105		0.14	0.003	2.58	332.8	348.2	
7.8	2.6		0.1		3.05	2.19	1.56	94	1.12	0.20	0.001	3.55	334.6		
4.4	1.3		0.3		3.89	2.79	2.01	105	1.00	0.25	-0.004	4.55	331.8	348.2	A
4.6	1.0		0.1		2.75	2.00	1.40	99	1.10	0.18	-0.017	3.95	332.2		
6.7	1.3		1.3		3.53	2.50	1.79	94	1.20	0.23	-0.019	4.96	333.0	348.3	A
6.5	1.1		2.6		3.80	2.73	1.98	111	0.95	0.24	-0.012	4.79	331.2		
8.0	1.6		7.2		2.53	1.86	1.30	118	1.06	0.17	-0.024	3.94	332.0	349.7	D
8.7	2.2		17.0		2.77	2.03	1.42	117	1.06	0.18	-0.003	3.48	333.1		
13.1	3.1		32.4		1.99	1.43	0.97	117	1.64	0.14	0.034	2.67	333.9	350.1	D
19.8	5.1		42.6	0.26	1.99	1.43	0.98	118	1.48	0.14	0.047	2.65	334.3		
29.8	7.4		74.4	0.23	1.53	1.13	0.72	132	1.51	0.11	-0.015	2.47	334.0	352.3	A
29.4	9.5		74.0	0.25	1.00	0.69	0.30	130		0.11	-0.012	2.55	334.8		
38.0	11.4		102.3	0.23	1.11	0.76	0.40	153		0.10	-0.027	2.57	334.7	352.5	A
41.2	14.0		120.4	0.20	1.21	0.87	0.41	171		0.11	-0.016	2.53			
34.5	14.2		103.5	0.22	0.52	0.25	0.07	244		0.09	-0.054	2.58		348.3	V
47.5	15.5		139.4	0.20	1.41	1.08	0.68	180	1.61	0.10	0.041	1.99	336.7		
62.6	17.6		189.1	0.17	2.16	1.69	1.19	52	0.39	0.12	-0.036	3.05	334.4	347.7	
74.0	16.5		220.7	0.16	1.94	1.49	1.04	59	0.67	0.12	0.011	2.30	332.9		
98.8	19.7		295.4	0.15	2.18	1.71	1.23	60	0.23	0.12	-0.049	3.03	332.7	347.7	NC
120.4	25.7		367.6	0.13	1.43	1.11	0.78	38	0.96	0.10	-0.072	3.48	333.0		
157.8	33.8		481.2	0.13	2.34	1.86	1.37	39	0.12	0.11	-0.069	3.18	333.0	347.8	NC
157.3	30.6		477.6	0.15	2.88	2.30	1.64	54	0.10	0.14	-0.035	2.87	333.8		
168.4	30.8		503.4	0.16	3.00	2.41	1.78	27	0.07	0.14	-0.031	2.80	332.5	347.8	NC
169.7	33.2		517.0	0.15	3.41	2.73	2.00	92	0.08	0.16	-0.023	3.00	331.1		
140.0	28.1		436.1	0.15	3.72	2.93	2.15	42	0.14	0.18	-0.015	3.42	331.9		I
120.0	19.4		356.6	0.17	3.66	2.89	2.09	14	0.15	0.18	-0.008	3.17	332.5		
142.6	22.6		423.4	0.16	3.67	2.91	2.12	26	0.11	0.18	-0.007	2.96	332.0	348.2	
156.5	21.7		476.0	0.15	4.36	3.46	2.53	21	0.08	0.20	-0.006	3.15	331.9		
149.7	21.1		463.2	0.15	4.43	3.49	2.56	31	0.11	0.21	-0.015	3.80	331.3	348.3	NC
108.6	15.9		345.6	0.17	4.01	3.16	2.30	112	0.12	0.20	-0.019	3.65	331.2		
104.5	11.7		313.7	0.16	3.95	3.06	2.25	180	0.20	0.20	-0.011	3.75	330.7	348.5	NC
102.9	12.5		318.4	0.17	4.08	3.20	2.37	207	0.14	0.20	-0.025	4.13	330.4		
62.0	5.5		195.1	0.20	3.84	2.92	2.13	82	0.52	0.23	0.009	4.23	331.5	348.8	A
50.8	2.7		159.6	0.18	3.62	2.79	2.03	97	0.32	0.20	0.000	3.48	332.2		
39.1	0.2		122.2	0.22	3.33	2.60	1.89	233	0.20	0.17	-0.006	3.04	331.3	348.9	A
30.4	-1.8		94.5	0.24	3.75	2.83	2.05	127	0.60	0.23	-0.003	4.37	331.5		
17.3	-5.4		47.2	0.37	4.52	3.45	2.52	170	0.26	0.24	-0.002	3.87	330.3	349.2	D
13.4	-6.5		35.6	0.29	3.74	2.92	2.13	206	0.15	0.19	0.005	2.83	331.5		
12.7	-6.7		31.4	0.47	3.79	2.95	2.15	112	0.18	0.19	-0.008	3.32	331.9	349.5	A
5.5	-7.7		12.6		4.08	3.09	2.15	327	0.39	0.23	0.001	3.66	332.3		
2.6	-8.8		4.0		4.03	3.10	2.13	333	0.22	0.21	-0.016	3.63	332.1	349.5	A
2.8	-9.0		2.4		4.56	3.51	2.53	271	0.15	0.23	0.007	3.25	331.9		
169.7	33.8		517.0	0.47	6.52	4.70	3.48	333	1.64	0.41	0.047	6.74	336.7	352.5	
-6.8	-9.0		0.0	0.13	0.52	0.25	0.07	14	0.07	0.09	-0.072	1.99	328.8	347.7	
54.0	8.5		158.6	0.20	3.17	2.40	1.71	121	0.58	0.18	-0.010	3.51	332.2	349.0	
4.7	0.7														

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	-0.4	4.2	89.0	-1.4	5.0	100.0	-0.2	3.8	79.8	3.1	2.5			0.0	0.0
030	-1.0	5.1	100.0	-0.3	4.7	99.2	-0.8	4.9	100.0	2.8	2.3			0.0	0.0
100	-1.3	5.4	100.0	-0.4	4.8	100.0	-0.7	4.1	88.0	2.5	2.1			0.0	0.0
130	-0.9	4.4	96.5	-0.5	4.5	96.1	-1.2	5.2	100.0	2.0	1.7			0.0	0.0
200	-1.3	4.8	100.0	-1.0	5.2	100.0	-0.2	4.2	88.4	1.9	1.7			0.0	0.0
230	-1.3	5.1	100.0	-1.5	5.2	100.0	-0.3	4.1	86.8	1.6	1.4			0.0	0.0
300	-0.5	4.5	95.3	-0.5	3.9	84.5	-0.6	4.5	97.7	1.4	1.3			0.0	0.0
330	-1.0	4.3	95.8	-0.6	4.7	100.0	-0.8	4.4	96.3	1.7	1.7			0.0	0.0
400	-0.7	4.8	100.0	-0.2	3.8	80.6	-0.6	4.1	87.9	2.3	2.3			0.0	0.0
430	-0.5	4.5	96.3	-0.9	4.3	94.7	-0.5	3.8	82.2	2.8	2.9			0.0	0.0
500	-1.1	4.6	100.0	-0.7	4.0	86.9	-1.0	4.3	94.6	3.1	3.1			0.0	0.0
530	-1.0	4.5	100.0	-1.1	4.3	97.1	-1.0	4.5	100.0	3.0	3.1			0.0	0.0
600	-0.7	4.3	93.9	-1.1	4.6	100.0	-0.9	4.5	99.4	2.9	3.0			0.0	0.0
630	-0.8	4.3	93.1	-1.2	4.3	96.5	-0.8	4.4	97.6	2.7	2.9			2.6	2.9
700	-1.2	4.4	99.1	-0.8	4.1	88.9	-0.7	4.4	95.2	2.6	2.7			8.0	3.0
730	-0.8	4.4	95.6	-0.7	4.1	88.5	-0.6	4.4	94.3	2.4	2.5			7.5	2.3
800	-0.7	4.5	96.7	-0.7	4.3	93.8	-0.6	4.4	95.8	2.2	2.3			10.5	3.7
830	-0.5	4.7	100.0	-0.5	4.2	88.9	-0.3	4.5	94.1	2.1	2.2			26.5	6.8
900	-0.4	4.6	98.6	-0.2	4.3	90.0	-0.2	4.6	96.6	2.3	2.3			45.0	9.4
930	-0.2	4.3	90.1	0.1	4.5	91.8	0.4	4.5	90.1	2.5	2.3			85.7	14.9
1000	0.0	4.4	90.0	0.4	4.3	86.7	0.7	4.6	91.6	2.5	2.1			113.6	18.9
1030	0.3	4.5	91.5	0.5	4.5	90.4	1.0	4.7	89.9	2.7	1.9			126.5	20.6
1100	0.6	4.1	82.5	0.8	4.8	93.5	0.9	5.2	100.0	2.8	1.7			155.8	23.7
1130	0.8	4.4	86.6	1.1	4.4	84.9	1.0	5.2	100.0	3.1	1.6			184.3	28.6
1200	1.0	4.5	86.7	1.2	4.4	84.0	1.0	5.2	100.0	5.3	3.4			203.4	32.3
1230	1.0	4.5	86.7	1.2	4.4	84.0	1.0	5.2	100.0	6.3	3.8			201.5	31.7
1300	1.0	4.5	86.7	1.2	4.4	84.0	1.0	5.2	100.0	6.1	3.4			155.0	24.4
1330	1.0	4.5	86.7	1.2	4.4	84.0	1.0	5.2	100.0	5.6	2.9			178.6	28.4
1400	1.0	4.5	86.7	1.2	4.4	84.0	1.0	5.2	100.0	5.3	2.5			168.7	26.9
1430	1.0	4.5	86.7	1.2	4.4	84.0	1.0	5.2	100.0	5.1	2.2			144.7	23.1
1500	1.1	4.6	89.1	1.2	4.6	88.5	1.1	5.2	100.0	4.4	1.5			158.4	25.4
1530	1.1	4.8	91.9	1.1	5.2	100.0	1.7	5.3	97.9	2.4	-0.4			140.2	23.4
1600	1.4	4.9	92.0	1.4	5.0	93.4	1.8	5.2	94.3	2.5	-0.2			149.4	23.3
1630	1.4	4.9	92.9	1.5	4.9	91.8	1.8	4.9	89.7	3.0	0.3			130.8	23.5
1700	1.7	5.0	91.5	1.6	5.1	93.6	2.3	4.9	86.5	3.6	0.9			173.5	29.0
1730	1.3	5.0	93.7	1.2	5.3	100.0	2.0	4.4	80.3	4.0	1.2			118.8	20.3
1800	1.0	5.3	100.0	1.1	5.4	100.0	1.8	4.4	80.5	4.3	1.6			115.9	18.1
1830	0.9	5.4	100.0	1.2	5.1	97.7	1.6	4.6	85.0	4.6	2.0			92.3	17.7
1900	0.8	5.4	100.0	1.2	5.4	100.0	1.8	4.3	78.0	4.6	2.2			96.2	16.1
1930	1.1	5.2	99.3	1.2	5.0	96.3	1.7	4.5	83.4	4.4	2.1			79.1	14.2
2000	1.0	5.0	97.4	1.3	4.6	87.4	0.9	5.5	100.0	4.1	2.0			50.4	9.9
2030	1.1	4.6	88.5	1.3	4.4	83.7	1.0	5.4	100.0	4.2	2.2			49.0	10.3
2100	1.2	4.4	83.9	1.1	4.6	88.4	1.1	4.8	92.7	4.3	2.5			41.1	9.0
2130	0.9	4.6	89.4	0.9	4.8	93.9	1.3	4.3	80.9	4.3	2.7			22.7	6.9
2200	0.8	4.6	91.0	0.6	4.8	95.4	0.9	4.4	86.0	3.9	2.4			11.9	5.1
2230	0.5	4.6	92.9	0.7	4.7	92.7	0.4	4.9	98.2	3.5	2.3			2.2	2.7
2300	0.4	4.5	90.8	0.2	4.8	98.2	0.3	4.8	96.8	3.4	2.3			0.4	2.5
2330	-0.2	5.4	100.0	0.3	4.6	93.5	0.3	4.6	94.0	3.2	2.4			0.0	0.0
Max	1.7	5.4	100.0	1.6	5.4	100.0	2.3	5.5	100.0	6.3	3.8			203.4	32.3
Min	-1.3	4.1	82.5	-1.5	3.8	80.6	-1.2	3.8	78.0	1.4	-0.4			0.0	0.0
Ave	0.2	4.7	93.6	0.3	4.6	92.3	0.5	4.7	93.1	3.4	2.1			67.7	11.6
Sum														5.9	1.0

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
3.1	-8.9		1.5		4.31	3.31	2.41	226	0.22	0.22	-0.004	3.67	333.0	349.5	A
2.5	-8.8		0.5		4.44	3.40	2.52	147	0.25	0.23	-0.004	3.98	333.2		
2.5	-8.7		0.0		4.26	3.24	2.34	156	0.33	0.23	-0.010	4.23	333.8	350.2	D
3.0	-8.2		0.0		4.05	3.06	2.22	147	0.45	0.23	0.005	4.04	334.8		
3.7	-8.0		0.0		3.24	2.49	1.78	238	0.39	0.18	-0.030	4.23	334.9	350.5	D
2.3	-7.3		0.0		2.07	1.47	0.98	321	1.97	0.15	-0.043	4.38	336.4		
2.3	-6.7		0.0		2.16	1.55	0.97	330		0.17	0.005	3.20	336.5	350.9	A
1.6	-6.6		0.0		2.45	1.83	1.21	321	1.27	0.17	-0.009	3.55	336.5		
0.1	-6.7		0.0		3.02	2.24	1.55	312	1.02	0.20	-0.003	3.88	335.3	350.8	A
0.5	-6.7		0.0		3.61	2.66	1.83	308	1.08	0.24	0.000	4.45	335.3		
1.2	-6.7		1.1		4.01	2.98	2.08	311	0.72	0.25	-0.002	4.40	335.4	350.6	A
0.9	-6.6		2.4		4.20	3.17	2.20	316	0.41	0.24	0.000	3.74	335.7		
4.5	-6.1		6.0		4.21	3.17	2.21	319	0.43	0.24	0.004	3.83	335.3	350.4	A
7.0	-5.4		14.6		4.28	3.24	2.30	320	0.39	0.24	0.001	3.88	335.0		
12.5	-4.2		24.0	0.38	4.05	3.07	2.14	317	0.43	0.23	-0.009	4.17	335.0	350.5	A
13.2	-3.5		28.8	0.31	4.01	3.02	2.12	315	0.50	0.23	-0.004	4.12	335.1		
13.5	-3.0		36.2	0.35	3.82	2.88	1.99	310	0.55	0.23	-0.001	3.85	335.9	350.2	D
28.6	-0.4		78.4	0.26	3.97	2.95	2.06	307	0.84	0.25	-0.004	4.75	336.5		
44.2	2.9		123.2	0.21	4.39	3.35	2.35	312	0.32	0.24	-0.003	3.88	335.4	349.8	A
80.2	9.0		221.6	0.17	4.36	3.36	2.36	320	0.20	0.22	-0.008	3.57	335.5		
97.2	15.6		287.4	0.17	4.47	3.46	2.44	316	0.18	0.23	-0.009	3.66	335.2	349.8	A
111.7	18.5		320.3	0.16	4.00	3.11	2.17	318	0.18	0.20	-0.013	3.45	335.8		
129.3	24.6		381.3	0.15	3.96	3.07	2.18	315	0.20	0.20	-0.006	3.30	335.7	349.6	A
158.8	28.0		455.6	0.15	4.00	3.16	2.25	307	0.11	0.19	-0.002	2.82			
173.2	31.4		502.2	0.16	4.21	3.23	2.28	303	0.22	0.22	0.000	3.31		349.6	A
169.6	29.5		504.6	0.16	4.32	3.38	2.39	304	0.13	0.21	0.000	3.01			
132.7	22.3		393.6	0.16	4.43	3.37	2.35	301	0.29	0.24	0.000	3.67		349.6	A
154.4	22.0		441.9	0.16	4.17	3.21	2.28	301	0.20	0.22	0.000	3.25			
144.5	23.5		424.8	0.16	4.44	3.34	2.33	294	0.46	0.26	0.000	4.16		349.5	A
125.0	19.4		363.0	0.16	3.95	2.95	2.05	287	0.72	0.24	0.000	4.26			
137.9	19.5		398.1	0.16	4.34	3.26	2.28	287	0.49	0.25	-0.001	4.18		349.3	A
122.0	18.7		362.1	0.17	4.69	3.49	2.43	291	0.55	0.28	-0.007	4.93			
130.9	17.8		379.1	0.16	4.33	3.20	2.23	291	0.81	0.27	-0.006	5.15		349.3	A
111.9	16.7		338.0	0.18	4.78	3.54	2.45	290	0.75	0.30	-0.005	5.40			
147.6	18.3		438.8	0.17	4.95	3.70	2.60	295	0.51	0.29	-0.007	5.13		348.8	D
100.0	16.4		305.5	0.17	4.64	3.56	2.51	306	0.22	0.24	-0.008	3.91			
101.4	11.8		297.6	0.16	4.63	3.55	2.52	307	0.21	0.24	-0.011	4.01			I
78.0	9.5		244.1	0.19	4.78	3.56	2.48	298	0.60	0.29	-0.008	5.25			
83.7	9.0		245.5	0.17	4.71	3.54	2.51	299	0.45	0.27	-0.013	5.10	337.6	348.3	
68.6	8.2		210.0	0.18	4.07	3.14	2.24	307	0.23	0.21	-0.010	3.65	337.6		
41.6	3.7		136.1	0.20	3.98	3.05	2.16	308	0.32	0.22	0.003	3.52	336.7	348.2	NC
39.2	2.1		125.6	0.21	4.20	3.13	2.19	301	0.64	0.25	0.002	4.43	337.7		
37.0	1.2		110.4	0.22	4.81	3.66	2.58	312	0.32	0.26	0.000	4.08	337.0	348.3	NC
23.3	-1.4		69.8	0.31	4.41	3.40	2.40	317	0.21	0.23	-0.006	3.64	338.4		
13.5	-3.1		40.8	0.43	3.85	2.94	2.05	320	0.33	0.21	-0.003	3.46	339.1	348.3	NC
6.9	-4.8		16.6		3.81	2.93	2.05	320	0.26	0.20	0.002	3.08	339.5		
3.3	-5.4		8.4		3.75	2.87	2.00	316	0.34	0.21	0.001	3.30	339.2	348.4	NC
2.1	-5.7		3.0		3.68	2.78	1.92	317	0.59	0.22	-0.010	4.22	339.8		
173.2	31.4		504.6	0.43	4.95	3.70	2.60	330	1.97	0.30	0.005	5.40	339.8	350.9	
0.1	-8.9		0.0	0.15	2.07	1.47	0.97	147	0.11	0.15	-0.043	2.82	333.0	348.2	
59.8	5.6		173.8	0.20	4.07	3.08	2.17	295	0.47	0.23	-0.005	3.98	336.2	349.6	
5.2	0.5														

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	0.3	4.0	80.4	0.1	4.8	97.8	0.3	4.5	92.5	3.2	2.4			0.0	0.0
030	-0.2	4.8	100.0	0.3	4.4	89.3	0.0	4.8	99.7	3.1	2.5			0.0	0.0
100	0.4	4.7	95.6	0.3	4.4	89.4	0.2	4.5	93.1	2.6	2.1			0.0	0.0
130	0.8	4.4	87.1	0.3	4.3	86.6	0.2	4.5	91.1	2.3	1.8			0.0	0.0
200	-0.5	5.3	100.0	0.3	4.5	90.6	0.3	4.5	91.3	2.2	1.8			0.0	0.0
230	-0.1	4.7	97.0	-0.2	4.6	97.2	-0.1	4.5	93.1	2.3	2.0			0.0	0.0
300	-0.5	5.2	100.0	0.0	4.8	99.3	0.2	4.5	92.6	2.2	1.9			0.0	0.0
330	-0.3	4.8	100.0	0.2	4.6	94.3	0.0	4.6	95.1	2.0	1.8			0.0	0.0
400	-0.2	4.8	99.8	0.3	4.5	91.4	-0.1	4.3	90.3	1.6	1.5			0.0	0.0
430	-0.2	4.5	94.9	-0.2	4.7	99.5	-0.2	4.5	94.7	1.6	1.5			0.0	0.0
500	0.1	4.5	91.8	0.0	4.6	95.6	-0.2	4.8	100.0	1.2	1.1			0.0	0.0
530	-0.2	4.7	98.8	0.3	4.3	86.4	-0.1	4.7	98.4	1.0	0.9			0.0	0.0
600	-0.1	5.2	100.0	0.0	4.9	100.0	-0.1	4.7	98.0	0.8	0.8			0.0	0.0
630	-0.1	4.4	91.5	0.0	4.6	96.1	0.0	4.5	94.2	2.2	2.2			0.2	3.2
700	0.2	4.5	91.9	0.2	4.1	84.3	0.0	4.6	94.9	2.7	2.6			9.7	3.5
730	-0.1	4.5	92.8	0.1	4.4	89.6	0.3	4.5	90.8	2.4	2.3			21.8	6.2
800	0.1	4.4	90.0	0.4	4.3	87.7	0.4	4.4	88.6	2.2	2.0			21.7	6.4
830	-0.1	4.7	98.7	0.2	4.8	97.6	0.4	4.5	90.1	1.7	1.5			14.9	4.0
900	-0.1	5.2	100.0	0.3	4.4	89.8	0.1	4.8	97.6	1.1	0.9			20.9	4.3
930	0.0	4.6	95.8	0.2	5.1	100.0	0.4	4.7	95.1	1.0	0.8			43.0	10.1
1000	0.2	4.9	99.5	0.4	4.6	91.9	0.6	4.8	95.5	0.9	0.5			60.9	10.8
1030	0.3	5.0	100.0	0.4	4.6	93.6	1.1	4.6	87.6	0.9	0.4			69.0	13.0
1100	0.5	4.6	91.0	0.9	4.4	86.0	1.1	5.0	95.7	1.0	0.2			72.8	13.5
1130	0.6	4.5	89.6	0.9	4.8	92.7	1.0	5.1	99.3	1.5	0.6			98.5	17.8
1200	0.5	4.9	97.8	0.7	4.8	95.0	0.8	5.2	100.0	2.0	0.9			102.4	18.8
1230	0.4	5.0	100.0	0.9	4.9	95.0	0.8	5.1	100.0	2.0	0.7			112.7	19.8
1300	0.7	4.9	96.7	0.8	5.1	100.0	1.1	4.9	93.7	1.9	0.3			144.3	26.2
1330	0.5	5.1	100.0	1.0	4.9	94.5	1.3	4.8	90.2	2.0	0.3			146.0	19.5
1400	0.7	5.1	100.0	1.0	5.1	98.1	1.5	4.6	86.7	2.4	0.5			148.9	22.6
1430	0.7	5.2	100.0	1.0	5.3	100.0	1.8	5.1	92.7	2.9	0.6			195.0	31.7
1500	0.7	4.9	97.1	1.1	5.0	95.1	1.4	4.6	87.3	3.2	0.7			115.4	18.5
1530	0.8	4.7	92.8	1.0	4.8	93.8	1.4	4.5	85.1	3.4	1.0			108.1	22.0
1600	0.8	4.9	96.4	1.1	5.1	98.7	1.9	4.7	85.5	3.2	0.7			186.0	30.1
1630	0.8	5.0	98.2	1.0	5.3	100.0	1.9	4.5	81.8	3.9	1.2			163.4	27.8
1700	0.6	4.9	97.5	1.0	4.8	91.9	1.5	4.4	82.9	4.0	1.3			128.4	23.9
1730	0.7	5.1	100.0	0.9	4.8	92.7	1.4	4.6	86.6	3.5	0.8			121.4	24.0
1800	0.7	5.0	99.0	1.1	5.0	95.5	1.5	4.6	86.5	3.2	0.6			124.2	21.5
1830	0.7	5.0	98.7	1.0	5.1	99.4	1.6	4.7	86.9	3.7	1.1			114.5	19.3
1900	0.8	4.9	96.5	1.1	4.7	91.1	1.3	4.7	88.2	3.7	1.3			100.5	18.0
1930	0.9	4.7	91.9	1.1	4.6	89.1	0.8	5.1	100.0	3.7	1.3			66.3	12.6
2000	0.8	4.7	91.9	0.9	4.7	90.5	0.7	5.2	100.0	3.4	1.3			53.5	7.6
2030	1.2	4.7	90.5	0.4	5.3	100.0	0.9	4.9	96.0	3.1	1.1			34.8	8.0
2100	0.9	3.7	71.4				0.8	4.9	95.6	3.0	1.3			13.2	5.2
2130	0.9	4.8	93.1	1.0	4.2	81.6	0.3	5.0	100.0	3.3	1.8			11.4	3.5
2200				0.2	4.6	94.0	0.1	4.7	97.4	2.9	1.5			5.1	2.6
2230	0.0	4.1	83.7	-0.3	5.3	100.0	0.7	4.8	94.7	2.1	1.0			2.1	0.8
2300	0.7	4.5	87.9	0.3	5.2	100.0	0.2	5.3	100.0	1.4	0.5			0.0	0.0
2330	0.1	4.7	97.0	0.3	4.5	91.8	0.3	4.8	97.7	1.2	0.3			0.0	0.0
Max	1.2	5.3	100.0	1.1	5.3	100.0	1.9	5.3	100.0	4.0	2.6			195.0	31.7
Min	-0.5	3.7	71.4	-0.3	4.1	81.6	-0.2	4.3	81.8	0.8	0.2			0.0	0.0
Ave	0.4	4.8	95.0	0.5	4.7	93.9	0.7	4.7	93.2	2.4	1.2			54.8	9.9
Sum														4.7	0.9

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
-0.7	-6.1		1.8		3.93	2.97	2.06	321	0.45	0.23	0.001	3.65	339.6	348.1	
-1.1	-6.4		0.8		3.83	2.89	2.00	325	0.48	0.22	-0.004	3.82	339.9		
0.6	-6.0		0.3		3.37	2.54	1.66	333	0.65	0.20	0.004	3.34	340.0	348.3	NC
2.1	-5.5		0.1		3.43	2.57	1.71	334	0.78	0.21	0.010	3.70	339.9		
1.4	-5.5		0.1		3.44	2.61	1.76	336	0.53	0.20	-0.017	4.02	340.2	348.3	NC
2.4	-5.2		0.1		3.11	2.31	1.55	319	1.24	0.21	0.000	3.99	340.7		
2.0	-5.0		0.1		2.92	2.18	1.45	327	1.12	0.19	-0.017	4.30	340.6	348.4	NC
3.0	-4.7		0.6		2.61	1.96	1.29	326	1.19	0.18	-0.008	3.60	340.8		
0.4	-4.7		0.7		2.46	1.84	1.20	329	1.12	0.16	-0.004	3.14	341.3	348.4	NC
0.3	-4.9		0.5		2.63	1.93	1.29	324	1.46	0.18	0.000	3.54	341.1		
0.2	-4.5		0.3		2.33	1.68	1.10	326	1.81	0.17	0.014	3.20	341.1	348.5	
2.1	-4.3		0.1		2.32	1.70	1.11	322	1.68	0.17	-0.002	3.25	340.9		
2.4	-4.0		0.0		2.41	1.77	1.17	322	1.57	0.17	-0.003	3.40	341.7	348.4	NC
4.9	-3.6		0.6		3.29	2.47	1.67	329	0.72	0.20	-0.001	3.57	340.2		
12.4	-2.4		1.2	0.37	3.50	2.67	1.81	332	0.38	0.20	0.004	3.09	340.6	348.4	NC
24.3	0.2		1.8	0.28	3.06	2.31	1.55	325	0.76	0.19	-0.008	3.67	340.2		
23.6	1.8		1.8	0.29	3.13	2.42	1.64	329	0.37	0.18	-0.007	3.05	340.3	348.1	D
18.9	1.1		1.5	0.27	2.65	1.99	1.32	325	0.92	0.17	-0.015	3.60	341.0		
23.4	1.2		1.5	0.21	2.68	2.11	1.40	320	0.30	0.15	-0.008	2.48	341.0	347.8	
39.5	4.3		1.8	0.23	2.94	2.27	1.57	318	0.41	0.17	-0.012	3.22	341.8		
57.8	9.0		114.8	0.18	2.88	2.24	1.53	322	0.30	0.16	-0.010	2.77	342.4	347.7	A
61.3	10.7		179.8	0.19	2.69	2.11	1.46	328	0.26	0.14	-0.025	2.95	340.1		
65.1	12.4		195.1	0.18	2.66	2.10	1.44	327	0.22	0.14	-0.019	2.62	340.5	347.7	A
86.1	15.0		252.6	0.18	3.33	2.64	1.84	330	0.13	0.16	-0.010	2.70	340.0		
92.4	16.8		275.4	0.18	2.91	2.32	1.64	318	0.12	0.14	-0.011	2.39	339.7	347.8	NC
97.1	16.3		288.8	0.18	2.65	2.15	1.48	332	0.13	0.13	-0.012	2.35	340.2		
121.1	20.8		356.7	0.18	2.59	2.13	1.52	289	0.08	0.12	-0.016	2.28	340.3	348.1	
122.4	23.2		368.6	0.13	2.84	2.31	1.65	307	0.08	0.13	-0.026	2.67	340.6		
129.5	21.8		384.2	0.15	2.75	2.25	1.60	304	0.08	0.13	-0.028	2.66	340.5	348.1	NC
162.9	29.1		494.3	0.16	2.74	2.23	1.58	323	0.09	0.13	-0.037	2.83	339.9		
95.3	19.4		300.7	0.16	2.93	2.34	1.64	327	0.12	0.14	-0.020	2.65	340.1		I
92.2	14.4		288.8	0.20	2.56	2.05	1.43	327	0.13	0.13	-0.022	2.42	340.4		
157.3	23.0		470.1	0.16	2.78	2.28	1.62	331	0.08	0.13	-0.038	2.83	339.5	347.8	
131.1	23.8		427.6	0.17	3.50	2.84	1.98	335	0.10	0.17	-0.022	3.20	339.3		
111.1	17.8		352.1	0.19	3.10	2.52	1.79	314	0.08	0.15	-0.027	2.85	340.0	347.6	NC
103.3	16.4		327.5	0.20	2.78	2.27	1.62	261	0.08	0.13	-0.023	2.54	340.4		
106.2	15.9		330.2	0.17	2.86	2.35	1.70	269	0.06	0.13	-0.028	2.62	340.4	347.9	
95.1	15.0		304.0	0.17	3.00	2.38	1.68	322	0.14	0.15	-0.025	2.87	339.9		
77.0	11.4		255.5	0.18	2.75	2.20	1.53	324	0.13	0.14	-0.016	2.43	339.9	348.1	NC
53.1	7.1		182.6	0.19	2.78	2.20	1.52	323	0.15	0.14	0.004	2.09	340.4		
44.3	4.0		140.5	0.14	2.77	2.13	1.45	335	0.35	0.15	0.000	2.48	340.2	348.0	NC
30.7	2.2		94.7	0.23	2.36	1.84	1.25	315	0.37	0.13	0.012	2.22	340.5		
14.9	-1.0		44.7	0.39	2.60	1.96	1.33	326	0.80	0.16	0.005	3.00	340.5	348.2	NC
10.9	-3.3		31.0	0.31	2.73	2.03	1.37	326	1.02	0.18	0.018	3.33	340.3		
6.2	-4.3		16.8	0.51	2.32	1.69	1.11	327	1.74	0.17	0.029	3.28	340.7	348.0	NC
5.2	-4.5		10.6	0.38	2.11	1.59	1.09	261	1.12	0.14	-0.032	3.85	341.7		
2.2	-4.5		3.9		1.95	1.40	0.90	307		0.15	0.020	3.00	341.8	348.3	
3.6	-4.3		1.3		1.97	1.44	0.92	306	1.98	0.15	-0.013	3.27	342.3		
162.9	29.1		494.3	0.51	3.93	2.97	2.06	336	1.98	0.23	0.029	4.30	342.4	348.5	
-1.1	-6.4		0.0	0.13	1.95	1.40	0.90	261	0.06	0.12	-0.038	2.09	339.3	347.6	
47.9	5.4		135.6	0.22	2.83	2.19	1.50	320	0.59	0.16	-0.009	3.06	340.5	348.1	
4.1	0.5														

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	0.7	4.7	93.9	0.6	5.5	100.0	0.6	4.6	91.6	1.4	0.7			0.0	0.0
030	0.5	4.8	95.1	0.7	4.7	93.0	0.7	5.1	100.0	1.3	0.7			0.0	0.0
100	0.7	5.1	99.8	1.0	5.0	96.0	0.9	4.9	95.6	0.8	0.3			0.0	0.0
130	0.8	4.7	92.6	0.9	5.0	96.6	0.9	4.8	94.5	0.7	0.2			0.0	0.0
200	1.3	4.4	82.6	0.8	5.0	98.7	0.9	4.9	94.4	1.0	0.6			0.0	0.0
230	0.5	5.6	100.0	0.8	4.9	97.2	0.9	4.7	91.2	1.5	1.2			0.0	0.0
300	1.1	3.9	75.6	0.8	4.9	96.4	0.6	5.0	99.4	2.1	1.7			0.0	0.0
330	0.5	5.1	100.0	0.4	5.2	100.0	0.7	4.8	95.9	2.1	1.8			0.0	0.0
400	0.6	4.7	92.8	0.6	4.6	91.7	0.4	5.0	100.0	1.8	1.5			0.0	0.0
430	0.5	5.1	100.0	0.6	4.8	95.1	0.7	4.9	98.0	1.3	1.1			0.0	0.0
500	1.1	4.2	80.8	0.8	4.8	93.7	0.6	5.2	100.0	0.7	0.6			0.0	0.0
530	0.6	5.1	100.0	0.6	5.0	99.2	0.7	4.9	95.7	0.8	0.7			0.0	0.0
600	0.7	4.9	96.2	0.9	4.9	95.3	0.7	4.8	94.2	1.3	1.2			0.0	0.0
630	0.7	5.2	100.0	1.2	4.8	92.3	0.9	5.0	97.1	1.6	1.4			1.5	3.3
700	1.0	5.0	97.5	1.2	5.2	98.8	0.6	5.3	100.0	1.1	1.0			7.6	2.6
730	1.0	5.1	99.3	1.0	5.3	100.0	0.8	5.2	100.0	1.2	1.0			15.2	4.2
800	0.8	5.1	99.9	0.9	5.3	100.0	0.8	5.1	100.0	1.5	1.1			23.2	6.0
830	0.8	5.2	100.0	1.0	5.3	100.0	1.1	5.0	96.6	1.2	0.8			30.2	5.4
900	0.9	5.3	100.0	1.1	5.2	98.8	1.5	5.3	98.9	0.8	0.3			61.2	10.1
930	1.3	5.1	96.4	1.4	5.1	95.2	1.8	5.3	96.4	1.2	0.4			76.7	11.9
1000	1.6	5.0	93.0	1.6	5.1	95.3	2.0	5.1	91.1	1.1	0.0			73.0	12.7
1030	1.7	5.1	93.3	1.7	5.3	97.8	2.1	5.3	95.6	0.8	-0.4			80.7	12.7
1100	1.9	5.0	91.2	2.0	5.2	93.0	2.6	5.6	96.1	0.9	-0.5			99.0	15.8
1130	2.2	5.1	90.4	2.2	5.2	92.6	2.6	5.6	96.6	1.0	-0.7			145.6	20.9
1200	2.4	5.1	90.4	2.6	5.4	93.5	2.7	5.3	92.2	1.7	-0.5			134.6	21.0
1230	2.3	5.4	95.6	2.5	5.2	90.6	2.5	5.5	95.5	2.7	0.2			106.2	16.2
1300	2.2	5.1	90.9	2.4	5.1	90.4	2.7	5.7	98.7	2.9	0.4			129.2	21.7
1330	2.3	5.2	91.8	2.8	5.2	89.2	2.8	5.4	93.3	3.0	0.2			150.5	21.2
1400	2.6	5.1	88.5	2.7	5.3	90.8	3.0	5.2	87.4	4.1	1.2			133.4	19.8
1430	2.3	5.2	92.9	2.5	5.6	97.9	2.5	6.0	100.0	4.0	1.0			151.4	22.8
1500	2.1	5.3	94.0	2.4	5.2	91.8	2.6	5.8	100.0	4.2	1.1			134.7	20.5
1530	2.2	5.5	97.9	2.4	5.2	90.3	2.7	5.9	100.0	3.8	0.6			125.9	19.3
1600	2.3	5.4	94.8	2.6	5.4	94.2	2.7	5.7	97.4	3.4	0.3			127.4	21.0
1630	2.3	5.5	97.9	2.5	5.6	97.5	2.5	5.7	100.0	3.4	0.3			128.5	21.2
1700	2.2	5.3	95.1	2.8	5.3	89.9	2.9	5.6	95.3	3.7	0.5			146.2	23.0
1730	2.5	5.1	89.3	2.4	5.3	93.6	2.8	5.4	92.8	3.8	0.5			106.3	15.4
1800	2.5	5.4	94.1	2.6	5.5	95.0	2.9	5.4	91.2	3.7	0.6			126.7	16.6
1830	2.5	5.5	95.9	2.7	5.5	95.4	2.9	5.3	90.8	3.9	0.7			116.2	18.3
1900	2.5	5.4	94.8	2.7	5.4	93.8	2.6	5.8	100.0	3.8	0.6			61.3	12.3
1930	2.4	5.4	95.1	2.6	5.4	93.0	2.5	5.8	100.0	3.3	0.4			43.1	8.0
2000	2.5	5.5	96.4	2.8	5.4	91.5	2.7	5.3	92.2	2.9	0.3			40.2	9.7
2030	2.5	5.4	94.8	2.7	5.5	94.2	2.5	6.0	100.0	2.7	0.3			26.7	5.3
2100	2.5	5.4	94.4	2.8	5.4	91.7	2.5	5.3	93.0	2.9	0.7			18.3	4.2
2130	2.5	5.6	97.8	2.6	5.4	94.0	2.5	5.2	91.2	2.5	0.6			9.7	3.3
2200	2.2	5.5	97.9	2.3	5.1	90.2	2.1	5.4	95.9	2.1	0.3			2.1	1.0
2230	2.3	5.4	94.9	2.3	5.5	97.2	2.1	5.7	100.0	1.6	0.1			0.0	0.0
2300	2.2	5.5	97.7	2.2	5.3	94.6	2.0	5.6	100.0	1.4	0.0			0.0	0.0
2330	2.2	5.4	96.5	2.0	5.4	98.3	1.5	5.5	100.0	1.2	0.0			0.0	0.0
Max	2.6	5.6	100.0	2.8	5.6	100.0	3.0	6.0	100.0	4.2	1.8			151.4	23.0
Min	0.5	3.9	75.6	0.4	4.6	89.2	0.4	4.6	87.4	0.7	-0.7			0.0	0.0
Ave	1.7	5.2	94.6	1.8	5.2	94.9	1.8	5.3	96.4	2.1	0.6			54.8	8.9
Sum														4.7	0.8

Rn W/m2	G W/m2	UVb W/m2	PAR μE/sm²	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
3.5	-4.1		0.0		2.06	1.48	0.96	333		0.16	0.002	3.03	342.5	348.5	NC
0.7	-3.7		0.1		1.92	1.37	0.88	326		0.15	-0.011	3.24	341.8		
3.2	-3.5		1.0		1.86	1.36	0.92	151	1.68	0.13	-0.013	3.05	343.5	348.5	NC
2.5	-3.2		0.5		1.86	1.33	0.88	268		0.14	-0.006	2.91	343.2		
0.0	-3.2		0.2		2.19	1.60	1.05	330	1.76	0.16	0.015	3.12	342.8	348.6	NC
1.1	-3.1		0.0		2.45	1.80	1.18	334	1.57	0.17	-0.016	4.00	341.8		
1.5	-3.2		0.0		2.42	1.74	1.13	321	1.85	0.18	0.019	3.40	340.8	348.4	NC
0.3	-3.3		0.0		2.40	1.74	1.13	322	1.83	0.17	-0.006	3.62	340.2		
-2.7	-4.2		0.0		2.19	1.55	1.00	322		0.16	0.006	3.14	341.0	348.0	D
0.7	-3.8		0.0		2.02	1.42	0.90	335		0.16	-0.006	3.26	341.9		
1.8	-2.9		0.2		1.81	1.26	0.81	310		0.14	0.026	2.76	342.4	348.5	
0.4	-2.6		0.4		2.16	1.53	1.00	315		0.16	-0.005	3.30	341.8		
2.8	-2.2		3.3		2.56	1.85	1.22	315	1.67	0.18	-0.001	3.54	341.6	348.6	NC
5.2	-1.2		10.1		2.17	1.56	1.03	322	1.94	0.16	-0.006	3.28	341.8		
10.3	-0.1		24.3	0.34	1.97	1.41	0.90	327		0.15	0.016	2.96	341.5	348.3	NC
18.4	1.7		45.0	0.28	2.34	1.74	1.16	326	0.95	0.15	0.007	2.77	340.9		
22.7	3.5		66.7	0.26	2.45	1.82	1.19	334	1.10	0.16	0.000	3.00	340.5		C
27.3	4.5		82.2	0.18	2.26	1.74	1.17	315	0.52	0.14	-0.009	2.56	341.6		
49.9	9.6		155.0	0.16	2.04	1.62	1.12	274	0.31	0.11	-0.025	2.49	341.9		C
61.6	14.3		190.9	0.16	2.11	1.66	1.12	310	0.39	0.12	-0.020	2.51	341.5		
57.6	14.8		191.2	0.17	1.64	1.30	0.89	229	0.49	0.10	-0.033	2.42	341.8		C
65.9	15.1		212.8	0.16	1.41	1.11	0.73	301	0.61	0.09	-0.033	2.11	342.7		
79.1	17.8		254.9	0.16	1.28	0.95	0.63	268	1.79	0.10	-0.059	3.21	342.7		C
117.3	25.4		370.8	0.14	0.86	0.63	0.42	296		0.08	-0.062	2.68	343.1		
111.5	28.5		357.4	0.16	1.83	1.49	1.07	310	0.13	0.09	-0.021	1.83	342.1		C
93.5	22.2		284.2	0.15	2.01	1.64	1.15	328	0.12	0.10	-0.010	1.74	341.7		
111.2	22.8		335.2	0.17	1.73	1.38	0.98	316	0.29	0.10	-0.035	2.36	341.4		C
126.8	27.9		388.4	0.14	1.61	1.30	0.92	292	0.26	0.09	-0.033	2.11	342.0		
112.9	24.8		346.9	0.15	2.37	1.89	1.33	323	0.12	0.12	-0.020	2.19	325.6		C
128.2	25.0		396.7	0.15	2.45	2.02	1.43	328	0.08	0.12	-0.011	2.06	340.6		
111.8	23.0		355.2	0.15	2.30	1.89	1.33	317	0.10	0.11	-0.020	2.16	340.8	348.3	D
106.2	20.6		336.1	0.15	2.11	1.73	1.25	257	0.08	0.10	-0.033	2.16	340.8		
106.3	21.2		342.5	0.16	2.15	1.78	1.29	257	0.07	0.10	-0.019	1.95	340.8	348.0	A
105.5	19.4		341.2	0.17	2.07	1.69	1.19	318	0.12	0.10	-0.012	1.84	340.9		
118.2	22.3		388.4	0.16	2.16	1.77	1.25	326	0.10	0.10	-0.035	2.30	339.8	347.9	A
81.0	18.4		290.2	0.15	1.90	1.47	1.02	313	0.62	0.12	-0.014	2.56	339.9		
97.3	16.5		326.3	0.13	2.06	1.67	1.18	329	0.12	0.10	-0.021	1.99	339.6	347.5	
89.8	19.2		305.7	0.16	1.91	1.57	1.11	317	0.12	0.10	-0.023	1.93	339.5		
43.3	10.9		172.1	0.20	1.92	1.52	1.03	316	0.30	0.11	-0.007	1.91	339.3	347.6	NC
29.5	5.8		126.2	0.19	1.42	1.09	0.70	314	1.23	0.10	-0.005	1.97	340.6		
27.2	4.7		118.5	0.24	1.43	1.10	0.67	318	1.48	0.10	-0.010	2.12	340.3	347.5	NC
16.5	2.6		82.1	0.20	1.71	1.26	0.81	319	1.86	0.13	0.000	2.55	340.4		
8.8	0.8		60.2	0.23	1.96	1.43	0.94	331	1.87	0.14	0.002	2.81	340.3	347.3	NC
2.3	-1.2		36.7	0.35	1.65	1.20	0.77	266		0.13	0.001	2.54	341.7		
-1.8	-3.0		17.3	0.47	1.48	0.95	0.47	331		0.15	0.002	2.88	342.1	347.3	NC
-3.8	-3.9		9.5		1.25	0.58	0.18	312		0.17	0.007	2.87	344.9		
-3.8	-4.2		4.9		1.35	0.59	0.13	322		0.19	0.006	3.15	345.9	347.6	V
-4.0	-4.4		1.9		0.94	0.17	0.04	308		0.16	0.073	1.96	347.3		
128.2	28.5		396.7	0.47	2.56	2.02	1.43	335	1.94	0.19	0.073	4.00	347.3	348.6	
-4.0	-4.4		0.0	0.13	0.86	0.17	0.04	151	0.07	0.08	-0.062	1.74	325.6	347.3	
44.7	8.0		146.5	0.19	1.92	1.43	0.95	307	0.81	0.13	-0.009	2.63	341.3	348.0	
3.9	0.7														

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Time h	Ta1 C 210cm	AH1 g/m3	RH1 %	Ta2 C 120cm	AH2 g/m3	RH2 %	Ta3 C 30cm	AH3 g/m3	RH3 %	Ts1 C -1cm	Ts2 C -5cm	Ts3 C -10cm	Ts4 C -20cm	Rsd W/m2	Rsu W/m2
000	2.1	5.2	93.8	1.8	5.3	96.3	1.7	5.0	92.3	1.1	0.1			0.0	0.0
030	2.1	5.3	94.1	2.0	5.3	95.8	1.6	5.5	100.0	1.1	0.2			0.0	0.0
100	2.2	5.5	97.1	2.3	5.3	93.5	1.8	5.5	100.0	1.0	0.2			0.0	0.0
130	2.2	5.7	100.0	2.4	5.6	98.6	2.2	5.6	98.9	1.0	0.3			0.0	0.0
200	2.4	5.3	93.9	2.4	5.5	96.9	1.9	5.3	96.6	1.0	0.3			0.0	0.0
230	2.4	5.4	94.9	2.5	5.8	100.0	2.3	5.6	99.1	1.1	0.4			0.0	0.0
300	2.4	5.5	96.5	2.5	5.5	96.0	1.9	5.6	100.0	1.1	0.5			0.0	0.0
330	2.4	5.6	98.8	2.6	5.6	96.7	2.1	5.7	100.0	1.2	0.6			0.0	0.0
400	2.1	5.7	100.0	2.6	5.5	94.7	2.1	5.1	91.0	0.8	0.2			0.0	0.0
430	2.5	5.5	96.4	2.5	5.5	96.9	2.1	5.7	100.0	0.8	0.2			0.0	0.0
500	2.5	5.6	97.2	2.6	5.4	92.6	2.3	5.5	98.5	0.6	0.1			0.0	0.0
530	2.6	5.5	95.3	2.7	5.6	95.5	2.4	5.6	99.1	0.6	0.1			0.0	0.0
600	2.7	5.5	94.2	2.8	5.7	97.6	2.5	5.8	100.0	0.7	0.2			0.0	0.0
630	2.9	5.3	90.2	2.8	5.7	96.9	2.5	5.9	100.0	0.9	0.3			0.0	0.0
700	2.9	5.6	95.0	2.9	5.9	100.0	2.4	6.0	100.0	0.7	0.2			0.0	0.0
730	2.7	5.6	95.9	2.7	6.0	100.0	2.3	5.7	100.0	0.5	0.0			1.7	2.7
800	2.9	5.6	94.9	3.1	5.7	96.4	2.6	5.7	97.8	1.7	1.1			2.8	1.9
830	3.2	5.5	92.0	3.2	5.9	99.0	3.3	5.6	91.5	2.3	1.7			5.6	2.3
900	3.1	5.6	94.4	3.0	5.8	97.9	3.0	5.7	95.9	5.9	5.1			17.4	4.0
930	3.6	6.3	100.0	3.4	5.8	95.0	3.5	6.0	97.3	6.0	5.1			27.2	1.0
1000	4.1	5.6	87.6	3.5	6.4	100.0	3.6	5.9	95.7	7.1	6.0			42.9	6.4
1030	4.1	5.9	92.4	3.8	6.1	97.4	3.9	6.0	95.3	6.5	5.2			56.0	10.7
1100	4.6	5.9	89.5	4.5	6.0	92.1	4.6	6.1	93.2	5.3	3.8			51.3	5.4
1130	4.9	6.0	88.5	4.7	5.9	89.5	4.6	6.2	94.2	3.8	2.2			53.9	7.0
1200	4.7	6.4	96.5	4.7	6.7	100.0	5.0	6.4	94.8	3.7	1.9			56.1	6.6
1230	4.7	6.6	99.3	4.8	6.6	99.3	5.2	6.3	92.1	4.0	2.1			59.6	13.0
1300	4.9	6.2	91.5	5.1	6.0	87.5	4.9	6.3	93.5	4.3	2.3			59.5	9.7
1330	4.7	6.6	99.8	5.0	7.0	100.0	4.9	6.4	95.3	4.6	2.5			53.9	10.7
1400	3.7	6.3	100.0	4.3	6.2	95.8	4.1	6.3	98.0	4.8	2.6			76.0	8.4
1430	3.2	5.6	93.2	3.1	6.0	100.0	3.0	6.2	100.0	4.7	2.5			74.6	10.9
1500	2.8	5.8	100.0	3.1	5.7	95.0	2.9	6.1	100.0	4.5	2.2			72.9	8.7
1530															
1600															
1630															
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2330															
Max	4.9	6.6	100.0	5.1	7.0	100.0	5.2	6.4	100.0	7.1	6.0			76.0	13.0
Min	2.1	5.2	87.6	1.8	5.3	87.5	1.6	5.0	91.0	0.5	0.0			0.0	0.0
Ave	3.2	5.7	95.3	3.2	5.8	96.5	3.0	5.8	97.1	2.7	1.6			22.9	3.5
Sum														1.3	0.2

Rn W/m2	G W/m2	UVb W/m2	PAR $\mu E/sm^2$	Albedo	U1 m/s 470cm	U3 m/s 130cm	U5 m/s 32cm	WD deg	zo cm	u* m/s	Ri	Df cm/s	CO2 ppm	B-CO2 ppm	
-3.7	-4.8		0.5		1.12	0.14	0.00	330		0.20	0.030	2.39	350.7	347.5	V
-0.9	-4.2		0.1		0.81	0.00	0.00	288		0.16	0.760	0.55	353.5		
-1.1	-3.2		0.0		1.19	0.23	0.00	289		0.21	0.024	2.75	355.1	348.0	V
-3.8	-3.2		0.0		1.67	0.82	0.35	307		0.19	0.000	3.17	349.6		
-2.0	-3.2		0.0		1.13	0.29	0.07	272		0.18	0.030	2.33	348.7	347.7	D
-1.8	-2.2		0.0		1.80	1.07	0.56	312		0.17	0.007	3.08	346.4		
-2.0	-2.3		0.1		1.59	0.74	0.17	311		0.21	0.015	3.48	348.2	348.2	A
-0.3	-1.5		0.0		1.36	0.63	0.32	310		0.15	0.027	2.28	346.0		
-0.9	-1.9		0.0		1.24	0.53	0.08	299		0.17	0.000	2.76	352.2	348.0	A
-1.6	-2.3		0.0		1.32	0.26	0.01	296		0.22	0.019	2.85	350.4		
-0.2	-1.9		0.0		1.62	0.68	0.26	306		0.20	0.010	3.05	350.0	348.3	V
-2.9	-1.8		0.6		1.27	0.26	0.03	304		0.23	0.007	2.95	348.4		
-0.9	-1.1		1.8		1.57	0.67	0.10	295		0.22	0.006	3.70	348.4	348.2	V
0.4	0.1		3.2		1.69	0.71	0.16	293		0.23	0.010	3.70	347.4		
0.0	0.1		8.2		1.42	0.56	0.10	282		0.20	0.022	3.06	345.8	349.0	V
3.9	0.8		14.0		0.89	0.01	0.00	271		0.17	0.173	0.92	353.8		
6.5	2.0		17.7		1.59	0.70	0.10	260		0.20	0.010	3.42	353.0	349.1	V
9.1	3.8		29.2	0.40	1.66	0.91	0.33	254		0.18	-0.006	3.34	348.9		
18.4	6.0		57.0	0.23	1.86	1.11	0.65	235		0.17	0.004	3.03	350.0		C
25.7	8.9		78.7	0.04	1.93	1.22	0.74	246		0.16	0.006	2.50	346.2		
39.1	10.9		122.5	0.15	2.86	1.88	1.27	237		0.22	0.014	3.84	344.7		C
47.4	13.2		152.6	0.19	3.38	2.34	1.52	249	1.31	0.23	0.005	2.88	341.6		
42.2	13.0		140.0	0.10	3.71	2.71	1.81	258	0.52	0.22	0.000	3.10	340.6		C
44.6	13.6		159.7	0.13	4.20	3.17	2.17	268	0.34	0.23	0.004	3.53	340.5		
48.4	13.6		155.9	0.12	4.29	3.19	2.20	271	0.61	0.26	-0.005	4.21	340.8		C
53.4	14.5		163.2	0.22	4.43	3.33	2.31	268	0.43	0.25	-0.007	3.99	340.7		
56.2	14.2		162.0	0.16	4.96	3.72	2.59	270	0.35	0.27	0.000	4.12	340.5		C
50.3	15.2		152.3	0.20	4.80	3.52	2.45	277	0.83	0.30	-0.003	5.16	340.6		
71.4	14.0		205.0	0.11	4.69	3.50	2.47	303	0.52	0.27	-0.005	4.55	340.3		C
70.3	15.2		214.5	0.15	4.13	3.13	2.21	311	0.40	0.23	0.002	3.82	339.1		
70.2	14.0		209.9	0.12	3.48	2.62	1.72	323	0.82	0.22	-0.003	3.85	338.4		C
71.4	15.2		214.5	0.40	4.96	3.72	2.59	330	1.31	0.30	0.760	5.16	355.1	349.1	
-3.8	-4.8		0.0	0.04	0.81	0.00	0.00	235	0.34	0.15	-0.007	0.55	338.4	347.5	
20.5	4.5		66.1	0.17	2.38	1.44	0.86	284	0.61	0.21	0.037	3.17	346.5	348.2	
1.1	0.3														

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Micrometeorological Data and their Characteristics over the Arctic Tundra at Barrow, Alaska during the summer of 1993

Yoshinobu Harazono, Mayumi Yoshimoto, Akira Miyata,
Yohei Uchida, George L. Vourlitis and Walter C. Oechel

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