JAERI-Data/Code
99-022

# A DATABASE ON TRITIUM BEHAVIOR IN THE CHRONIC HT RELEASE EXPERIMENT (1) METEOROLOGICAL DATA AND TRITIUM CONCENTRATIONS IN AIR AND SOIL

March 1999

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編集兼発行　日本原子力研究所

JAERI－Data/Code 99－022

# A Database on Tritium Behavior in the Chronic HT Release Experiment
## (1) Meteorological Data and Tritium Concentrations in Air and Soil

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(Received March 8, 1999)

This report comprises a database that can be used to develop and validate tritium models to assess doses to the general public due to HT continuously released from fusion facilities into the atmosphere. The data was collected in the 1994 chronic HT release experiment carried out at the Chalk River Laboratories in Canada. The data set include meteorological conditions such as solar radiation, net solar radiation, wind speed, air temperature and humidity, soil temperature and soil heat flux; soil conditions such as bulk density, water content and free pore volume fraction; HT and HTO concentrations in air, HTO concentrations in soil moisture and HTO deposition to water surface. Evapo-transpiration rates and turbulent diffusivity are estimated and tabulated. The report also contains experimental methods to observe meteorological conditions and take air and soil samples.

Keywords: Database for Tritium Model Validation, Chronic Tritium Gas Release Experiment, Meteorological Condition, Soil Condition, Tritiated Water, Tritium Concentrations in Air and Soil, Tritium Deposition to Water Surface

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JAERI－Data/Code 99－022

# トリチウムガス野外連続放出実験のトリチウム挙動に関するデーターベース
## (1) 気象データ並びに空気及び土壌中トリチウム濃度

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(1999年3月8日受理)

本報告書は、核融合施設から連続的に大気中に放出されたトリチウムによる影響を評価するためのモデルの開発と検証に役立つデータベースをまとめたものである。このデータはカナダのチョークリバー研究所において 1994 年に行われたトリチウムガス野外連続放出実験で得られたものである。まとめたデータは、気象条件（日射量、放射収支量、風速、気温、湿度、地中温度、地中熱流束）、土壌データ（かさ密度、水分含有量、空隙率）、空気中 HT 及び HTO 濃度、土壌水分中 HTO 濃度、水表面への HTO 沈着量などである。また、地表面からの蒸発散量と大気の乱流拡散係数の推定値も含まれている。さらに、気象観測の方法及び空気や土壌試料の採取方法等も記述した。

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# 1. INTRODUCTION

The development of dose assessment methodology to the general public due to tritium released to the atmosphere from a D-T burning fusion reactor is one of the key issues for its licensing and safety evaluation. At the moment, several tritium dose assessment codes are developed for accidental tritium releases, for example UFOTRI developed by Forschungszentrum Karsruhe (FZK) [1,2], ETMOD by Ontario Hydro [3], and TRIDOSE [4] and ACUTRI [5] by JAERI. In addition, NORMTRI and CHTDC respectively developed by FZK and Ontario Hydro can calculate doses from tritium released to the atmosphere during normal operation of the fusion or tritium facilities. Chemical forms of tritium released to the atmosphere during D-T experiments in the Tokamak Fusion Test Reactor (TFTR) were mainly elemental tritium gas (HT) and tritiated water (HTO) [6]. Such HT and/or HTO releases would be supposed for a D-T burning fusion reactor in normal operation or accident. All of the above codes can therefore deal with the atmospheric release of HT and HTO. The environmental tritium transfer models in the codes mostly consist of dispersion in the atmosphere, deposition to soil and vegetation, HTO reemission from the surfaces and migration of HTO into soil.

In order to validate and improve such computer codes, it is essential to compare with experimental data concerning the behavior of HT and HTO after releases to the environment. Acute HT release experiments conducted in France [7] in 1986 and Canada [8-11] in 1987 provided variable databases to validate the accidental tritium transport models. The results cannot however be reliably extrapolated to chronic release of HT that is conceivable in normal operation of fusion reactors and tritium process plants.

A chronic HT release experiment was carried out at Chalk River in Canada in 1994. The main goal of this study was to obtain information on the behavior of tritium during and after a continuous HT release to the atmosphere. The experiment was conducted under the auspices of the International Energy Agency's Cooperative Program on the Environmental, Safety and Economic Aspects of Fusion Energy. Extensive air, soil and vegetation samples were taken by participants from several institutes including JAERI to study the behavior of HTO and organically bound tritium (OBT) formation, the time required to reach the steady-state of the system and the concentrations in the samples at steady-state.

Some important results obtained in the experiment have already been reported elsewhere [12-14]. This report describes the data obtained in the experiment, along with the brief explanation of experimental methods. They include results of meteorological observation, HT and HTO concentrations in air and soil and HTO deposition to water surface. Results on

HTO and OBT in vegetation will be given in another report. These data can be used to develop and validate tritium models to predict an environmental impact of HT released into the atmosphere not only chronically but also acutely.

## 2. EXPERIMENTAL METHODS

### 2.1 Experimental Site and Sampling Locations

The location of the experimental site is shown in **Fig. 1**. Trace amounts of HT (about 8.8 TBq) were continuously released to the atmosphere in a small test plot at Chalk River Laboratories for 292 hours (about 12 days) from 12:00 on July 27 in 1994 to 16:00 on August 8. The experimental plot (11 m × 11 m) was divided into four subplots (each 5 m × 5 m); three of the subplots (Plot 1-3) were cultivated and the other (Plot 4) was left in its natural state (**Fig. 2**). Three species of plants were grown on the cultivated plots: cherry tomato, radish and Chinese mustard (Komatsuna, in Japanese). Each cultivated plot had six ridges where the crops were grown. The cultivated plots were rototilled to a depth of about 15 cm and added peat moss and fertilizer prior to planting the crops. Further details of the HT release method and experimental field have been described in other papers [15,16]. Our experiment was mainly carried out on one of the agricultural plots (Plot 3) and the natural plot (Plot 4). Details of locations of the air and soil sampling, meteorological tower and water container in our experimental area are shown in **Fig. 3**.

### 2.2 Meteorological Observation

A meteorological tower of JAERI group was set up adjacent to the edge of cultivated plot (Plot 3) on a strip between Plots 3 and 4 as shown in **Fig. 4**. The tower is equipped with a pyrometer (Type MS-42, Eikoh Seiki Co. Ltd.) at 3.0 m height to measure solar radiation, a net radiometer (Type MF-11, Eikoh Seiki Co. Ltd.) at 1.5 m height to net solar radiation, an anemometer (Type AS-21L, Eikoh Seiki Co. Ltd.) at 2.1 m height to wind speed, five aspirated radiation shield wet and dry thermometers (Type MF-81, Eikoh Seiki Co. Ltd.) at 0.1, 0.5, 1.0, 1.5 and 2.5 m heights to temperature and humidity, two soil thermometers (Type MT-010S-3, Eikoh Seiki Co. Ltd.) at 2 cm depth and three soil heat flux sensors (Type MF-81, Eikoh Seiki Co. Ltd.) at 2 cm depth. The net radiometer and thermometers were respectively directed toward south and the center of Plot 3.

Each meteorological value was obtained by these instruments every 10 seconds and the data were sent to a data logger (SOLAC III MP-090, Eikoh Seiki Co. Ltd.). The values were averaged for every 15 minutes in the data logger and recorded by floppy disks (FD Writer MP-100, Eikoh Seiki Co. Ltd.). In addition, one-hour averaged values were calculated by the data

logger and recorded by a printer.

Evapo-transpiration rates were calculated using the meteorological data on the basis of an energy budget with Bowen's ratio method [17]. The energy balance equation at the surface can be written as

$$R - G = L \cdot E + H \tag{1}$$

where, $R$ is the net solar radiation, $G$ the soil heat flux, $L$ the latent heat for vaporization (=2417 J/g), $E$ the evapo-transpiration rate, $L \cdot E$ the latent heat flux and $H$ the sensible heat flux. The ratio of $H$ to $L \cdot E$ called Bowen's ratio ($\beta$) was used for the determination of $H$. The ratio is described by

$$\beta = H / (L \cdot E) = \gamma (K_H \partial T / \partial Z)(K_W \partial e / \partial Z) \tag{2}$$

where, $\gamma$ is the psychrometric constant (=0.509 mmHg/°C), $K_H$ the turbulent diffusivity for heat, $K_W$ the turbulent diffusivity for water vapor, $T$ the air temperature, $e$ the water vapor pressure and $Z$ the height. Since $K_H$ approximately equals $K_W$, equation (2) is reduced to

$$\beta = \gamma (T_1 - T_2) / (e_1 - e_2) \tag{3}$$

where, subscripts, 1 and 2, refer to lower and higher levels of temperature and vapor pressure measurements, respectively. The following equation obtained from equations (1) to (3) was used to calculate evapo-transpiration rates.

$$E = (R - G) / \{L(1 + \beta)\} \tag{4}$$

The turbulent diffusivity shown in equation (2) is of importance for an analysis of the vertical dispersion of HTO reemitted from the surfaces. The turbulent diffusivity for heat, $K_H$, and for water vapor, $K_W$, is calculated as follows.

$$K_W = -E \frac{\partial Z}{\partial H_a} \tag{5}$$

$$K_H = -\frac{H}{\rho \cdot C_p} \frac{\partial Z}{\partial T} \tag{6}$$

where, $H_a$ is the absolute humidity (g/m$^3$), $\rho$ the air density (g/m$^3$), $C_p$ the specific heat of air (=1.005 J/g°C).

2.3 Air HT and HTO Sampling

2.3.1 Sampling location and method

Sampling of atmospheric HT and HTO was done at the following three locations: at the

edge and center of Plot 3 and at a distance of about 50 m west of the experimental plot. Most of the air sampling was carried out at the edge of Plot 3. Five vinyl tubes (9 mmϕ I.D.) of which ends were connected to inlets of HT/HTO discriminating samplers were respectively attached on the side wall of the five wet and dry thermometers of the meteorological tower as shown in **Fig. 4**. The sampling heights were adjusted to 0.1, 0.5, 1.0, 1.5 and 2.5 m. The lowest sampling point of 0.1 m height was close to the radish and Komatsuna foliage. The second lowest height (0.5 m) was just above the mean canopy height of Komatsuna, which had the largest leaf surface area of the three plants. At the 0.5 m height, HT and HTO in the air were continuously collected during the whole experimental period. Sample air was pumped at flow rates of 3, 1.5 and 0.75 l/min respectively corresponding to sampling periods of 2, 4 and 8 hr, in order to adjust the total air flow at 0.36 $m^3$ per sampling. In the center of Plot 3, air HTO was occasionally collected at 0.1, 0.5 and 1.0 m heights at a flow rate of 3 l/min. The HT/HTO sampling at 50 m distance from the release pipe was carried out 3 times including background measurement. In addition, HT and HTO released from the pipe was directly collected for 15 min from 16:12 to 16:27 on August 3 to know the concentrations in the released gas.

Three HT/HTO discriminating samplers were placed outside the experimental plot about 12 m apart from the meteorological tower. The sampler was equipped with an automatic column changer and mass flow controller. They collected HT and HTO in the air at the three heights of 0.1, 0.5 and 1.0 m, respectively. A schematic drawing of the sampler is shown in **Fig. 5**. The sampler can have a maximum of eight sets of columns. A time controller equipped with the sampler can arrange any desired sampling period ranged from 10 min to about 200 hr. This function allowed us to trap HT and HTO during unmanned periods, such as nighttime. HTO in the air was first trapped by two initial columns filled with HTO sampling agent, which is described in the following section. HT passing through these columns was then oxidized and trapped by two additional columns. About 1.8 ml/min of hydrogen gas generated by electrolysis of tritium-free water was added to air at the inlet of the sampler to ensure the oxidation of HT to HTO.

Simple manual samplers shown in **Fig. 6** were used for the HTO sampling at the sampling heights of 1.5 and 2.5 m over the edge of Plot 3 and at heights of 0.1, 0.5 and 1.0 m near the center of Plot 3. A manual HT/HTO discriminating sampler was used for air tritium sampling at 50 m distance. A schematic diagram of the samplers is also shown in **Fig. 6**.

2.3.2 HTO sampling agent

Atmospheric sampling for HTO during the HT release was carried out using a mixture of Drierite ($CaSO_4$, W.A. Hammond Co., 10-20 mesh, 95 wt%) and calcium chloride ($CaCl_2$,

Wako Pure Chemical Industries, Ltd., 5 wt%). The calcium chloride was added to improve a water holding capacity of the adsorbent. A test has been done to select the best mixing ratio of $CaCl_2$ with Drierite prior to the experiment. The following five agents that had different mixing ratios were tested: 0, 5, 10, 20 and 50 wt% of $CaCl_2$ for Drierite. The test showed that the water holding capacity was improved greater as a mixing ratio higher, but the adsorbent began to deliquesce over 10 wt% of $CaCl_2$. As a result, a mixing ratio of 5 wt% $CaCl_2$ and 95 wt% Drierite was found to be the best.

Another test was done to check HT oxidation rate of the adsorbent. It is known that Molecular Sieves can oxidize HT to HTO [18]. HT added with hydrogen gas at a flow rate of about 1 ml-$H_2$/min as a carrier gas was exposed to Drierite itself, 5 wt% $CaCl_2$ mixing Drierite and Molecular Sieves 4A (Wako Pure Chemical Industries, Ltd.). The air flow was about 3 l/min (face velocity: 0.25 m/s). Oxidation rates of the Molecular Sieves 4A were $2\times10^{-3}$ % just after the collection of HT and $(7\text{-}8)\times10^{-3}$ % after keeping for 1 to 30 days. However, the rates of Drierite itself and the mixture were kept lower values of $(1\text{-}9)\times10^{-5}$ % during the periods.

Based on these test, we decided to use the mixture of 5 wt% $CaCl_2$ and 95 wt% Drierite as a sampling agent of atmospheric HTO in this experiment. This material was used to trap air HTO at the edge of Plot 3. About 37 g of the mixture was filled in plastic columns (20 mm length, 16 mm I.D.) and the columns were sealed until the use.

Molecular Sieves 4A was used to collect atmospheric HTO instead of the Drierite mixture after the end of the HT release at the edge of Plot 3 and during the whole experimental period at the center of Plot 3.

2.3.3 HT sampling agent

Paradium aluminum (0.5 % Pd-$Al_2O_3$, NEM CAT Co., beads, 1.5 mm $\phi$ ) was used as a sampling agent to oxidize and trap atmospheric HT. Before the use, the agent was activated as follows. It was predried in a muffle furnace heated at 450 °C for about two hours while flowing nitrogen gas. In order to activate the paradium aluminum, hydrogen gas was then flowed at a flow rate of about 300 ml/min for three hours at 450 °C followed by one-hour-nitrogen gas flow at the same temperature.

About 25 g of paradium aluminum was filled in plastic columns that were the same as the HTO trap. In the first column supposed to be set in the sampler, a few grams of Molecular Sieves 4A were put at the inlet of the column in addition to the paradium catalyst, in order to prevent a backward flow of high concentration HTO in the catalyst to the preceding HTO

sampling agent.

2.3.4 Extraction method

After sampling, all the columns used for the experiment were weighed, sealed and sent to JAERI. HTO on Pd-$Al_2O_3$ was extracted by equilibration for more than 24 hours with 50 ml of tritium-free water. HTO on Drierite with $CaCl_2$ was extracted by heating at 300 °C and flowing dry nitrogen gas. The water extracted in nitrogen gas was trapped with a bubbler containing 10 ml of tritium-free-water in ice bath. About 8 ml of the recovered water were measured with 12 ml of Aquasol-2 by a liquid scintillation counter (Packard, TRI-CARB 2000).

2.4 Soil Sampling

Soil cores of which diameter was 5 cm were taken to a depth of 20 or 30 cm at furrows between ridges in Plot 3 using a core sampler with double cylinders. A schematic draw of the soil sampler is shown in **Fig.** 7. About sixty soil cores including background samples were taken at the furrows in Plot 3 (**Fig. 3**); thirteen cores were also taken to a depth of 10 or 20 cm in Plot 4. The cores were sectioned into 3 segments (0-2.5, 2.5-5 and 5-10 cm) for 10-cm-depth cores, 6 segments (0-2.5, 2.5-5, 5-7.5, 7.5-10, 10-15 and 15-20 cm) for 20-cm-depth cores and 8 segments (0-2.5, 2.5-5, 5-7.5, 7.5-10, 10-15, 15-20, 20-25 and 25-30 cm) for 30-cm-depth cores. In addition, twenty cores (2.5 cm diameter and 20 cm depth) were taken close to vegetation at the ridges in Plot 3 using a side-open soil core sampler. These cores were sectioned into 8 segments of 2.5 cm each. Most of cores were taken at the same time when columns of HT/HTO sampler were exchanged.

The cores were put in plastic bags immediately after the sampling and translocated to uncontaminated area. The soil samples were then segmented and put in airtight containers to send to JAERI. To extract HTO from the soil samples, about 50 ml of tritium-free water was put and mixed in the containers. They were then allowed to leave for more than 24 hours. The supernatant water was collected through a filter (Toyo Roshi Kaisha, Ltd., 5C) to remove soil particles. If the water was colored, some granular charcoal (Tsurumi Coal Co. Ltd., HC-42) was put in the water for decoloring. Then HTO in the water was measured by the liquid scintillation counter.

2.5 Rain and Dew Sampling

Rain water was collected every rainfall using a plastic container placed near the experimental plot. Dew was collected three times on a flat plastic plate placed near the experimental plot at about 0.2 m height and put in a small bottle. The water samples were sent to JAERI and HTO concentrations in the water were measured by the liquid scintillation counter.

2.6 HTO Deposition to Water Surface

A plastic container with about 70 ml of tritium-free water was placed close to the meteorological tower to observe HTO deposition on water. The height of the water surface was set to 50 cm above the ground to prevent soil particles entering. A time set for deposition was mostly 2 hours, because water containers were replaced when soil cores were sampled. Temperature of the water was measured when the water container was replaced. The water samples were sent to JAERI and HTO concentrations in the water were measured by the liquid scintillation counter. The HTO fluxes, $F_{HTO}$, from air to water and $H_2O$ fluxes, $F_{H2O}$, from water to air were calculated by the following equations.

$$F_{HTO} = Q_{dep} / (A \times t_{\exp}) \tag{7}$$

$$F_{H2O} = W_{eva} / (A \times t_{\exp}) \tag{8}$$

where, $F_{HTO}$ is the HTO flux ($Bq \cdot m^{-2} \cdot s^{-1}$), $Q_{dep}$ is the activity deposited to water (Bq), $A$ is the deposition area of water container ($m^2$), $t_{exp}$ is the exposure period (s), $F_{H2O}$ is the $H_2O$ flux ($g \cdot m^{-2} \cdot s^{-1}$), and $W_{eva}$ is the decreased water amount by evaporation (g).

3. RESULTS

3.1 Meteorological Data

**Table A.1** in Appendix A summarizes meteorological data consisting of solar radiation, net solar radiation, wind speed, soil temperature and soil heat flux measured from 12:00 July 27 to 9:00 August 10. The solar radiation was occasionally more than 800 $W/m^2$ in the daytime on a clear day. The net solar radiation sometimes exceeded the solar radiation during the daytime on July 27, which showed either solar radiometer or net solar radiometer indications would be erroneous during the period. The wind speed at 2.1 m height usually ranged from 1 to 3 m/s during the day and almost no wind blew at night (< 0.5 m/s). The soil temperatures and soil heat fluxes in the table are averages of two and three data measured at the same time, respectively. The maximum soil temperature was 28.1°C at 13:00-14:00, July 28 and the minimum was 9.1°C at 05:00-06:00, August 6 during the release period. The average of the soil temperatures for the release period was about 18.9 °C.

**Tables A.2** and **A.3** show dry and wet bulb temperatures at the five different heights from 0.1 to 2.5 m. The maximum air temperature at 1 m height was 27.5 °C at 15:00-17:00, July 31 and the minimum was 4.9 °C at 04:00-05:00, August 5 during the release period. The mean air temperature for the release period was about 17.0 °C at 1 m height. Relative and

absolute humidity calculated using these data are shown in **Tables A.4** and **A.5**, respectively. Although some of the relative humidity show more than 100% in **Table A.4**, these should be 100%. The mean relative and absolute humidity for the release period were about 84.0 % and 12.0 g/m$^3$ respectively at 1 m height. Evapo-transpiration rates were calculated according to the energy budget method for four different height ranges, which were 0.1-0.5, 0.5-1.0, 1.0-1.5, 1.5-2.5 m, corresponding to the heights of temperature and humidity measurements. The results are shown in **Table A.6**. The mean evapo-transpiration rate for the release period was $2.47\times10^{-2}$ g·m$^{-2}$·s$^{-1}$ at the height range of 1.0-1.5 m.

**Tables A.7** and A.**8** show the turbulent diffusivity of water vapor and heat respectively at various height ranges. The heights shown in the tables correspond to the middle of the four height ranges. Some data are omitted from the tables because they are negative figures. Generally speaking, the turbulent diffusivity ranged from 0.1 to 1 m$^2$/s during the daytime and less than 0.1 m$^2$/s during the nighttime.

It rained three times during the two days just before the HT release; the total rainfall was about 15 mm. Rain fell several times in a range of 0.8-20.2 mm during the release period and 3.7 mm at midnight on August 8/9 after the termination of the release. The rainfall data measured by JAERI and AECL [19] are given in **Tables A.9** and **A.10**, respectively. The AECL's data seem to be more accurate, because they used a more elaborate rain sampler than ours.

3.2 HT and HTO Concentrations in Air

3.2.1 HT concentrations in air at the experimental plot

HT concentrations in air measured at the edge of Plot 3 are summarized in **Table B.1** in Appendix B. The HT concentrations at 0.5 m height were measured through the whole release period and before and after the release. The background HT concentration measured before the release was about 50 Bq/m$^3$ in Plot 3. **Figure 8** shows the time trend of air HT concentration at 0.5 m height. The HT concentrations in the figure are plotted at the middle of each sampling period. In spite of fluctuation of meteorological conditions, the concentration was fairly kept steadily. But diurnal cycles of air HT concentration were observed during some periods. In general, the concentration tended to be high at nighttime and low during the day. The mean HT concentrations at 0.5 m height is $1.4\times10^5$ Bq/m$^3$. The maximum and minimum concentrations are $3.1\times10^5$ and $2.5\times10^4$ Bq/m$^3$, respectively.

As described above, the HT concentration tended to be high at nighttime and low during the day. The HT release rate was varied in direct proportion to the wind speed, u, to make the air HT concentration independent of u above a threshold speed of 0.1 m/s [15]. However, the

air concentration was likely to depend on not only a wind speed but also net solar radiation. During the night, the hourly-averaged wind speeds were usually < 0.5 m/s and the net solar radiation was < -0.02 kW/m$^2$. The net solar radiation during the day were > 0.4 kW/m$^2$ in most cases, except for cloudy or rainy periods. However, the air HT concentrations from 20:00 August 3 to 8:00 August 5 were almost constant, in spite of including the daytime and nighttime. During this period, the net solar radiation was < 0.12 kW/m$^2$, because a rainfall of 20.2 mm occurred from the early morning to the night on August 4. Thus, the net solar radiation could be one of factors in the diurnal cycles of air HT concentrations.

**Figures 9** and **10** show the variations of air HT concentrations at various heights on the first day and 10 days after the release start. There are less differences between the air HT concentrations at various heights during the daytime in the both figures. On the other hand, the concentration tends to increase with height at the beginning of night except for 1.0 m height in **Fig. 10**. Although the nighttime concentrations at 1.0 m were lower than the daytime ones, the maximum HT concentration at 0.1 m height during the nighttime were higher than the concentrations during the daytime. The concentrations at 0.5 m were between those measured at heights of 0.1 and 1.0 m. Thus, the diurnal cycle having high concentrations at nighttime and low during the day, was occasionally observed at 0.5 m height. Such height dependence of HT concentration was observed during the nighttime, but less during the daytime because the air was mixed by wind and solar radiation.

3.2.2 HTO concentrations in air at the experimental plot

**Table B.2** contains HTO concentrations in air measured at the edge of Plot 3. The HTO concentrations at 0.5 m height were measured through the whole experimental period, including before and after the HT release. The background HTO concentrations were 0.40, 12 and 0.17 Bq/m$^3$ at heights of 0.1, 0.5 and 1.0 m, respectively. The highest HTO concentration of 12 Bq/m$^3$ at 0.5 m height is supposed to be erroneous due to contamination of HTO sampling agent. The time trend of air HTO concentrations at 0.5 m height is shown on a semi-logarithmic scale in **Fig. 11** along with the HT concentration at the same location. HTO was detected in air at the first two hour sampling. This means that the oxidation of HT to HTO in surface soil layer and the reemission of HTO to the atmosphere proceeded very rapidly. The HTO concentration gradually increased until 22:00 July 29. A remarkable increment in HTO concentration was then detected and it continued for 12 hours until 10:00 July 30. Since a similar strong peak was also observed by the Canadian team on the natural plot [16], it does not seem an erroneous detect. It may have been caused by an unexpected leakage of HTO in an HTO trap of the HT release system, because the release system was disassembled during this period in order to remove the HTO trap.

The air HT concentrations were high at night and low during the day, as mentioned above. Nevertheless, the HTO concentrations in air showed contrary diurnal cycles that were usually higher during the daytime than during the nighttime. The similar tendency was also observed after HT plume passage in the 1987 Canadian HT release experiment [20]. The cycles are probably because an evapo-transpiration rate became larger during the daytime than during the nighttime, resulting in higher absolute humidity during the daytime. During night, exchange of air moisture with HTO in the soil surface layer may have dominated the process supplying HTO to the air.

The trend of specific activities of HTO in air moisture (Bq/ml) at 0.5 m height are shown on a linear scale in **Fig. 12** together with air HTO concentrations (Bq/m$^3$). Specific activities of air moisture collected during the daytime at a height of 0.5 m at the center of Plot 3 are shown in **Table B.3** and also in **Fig. 12** by closed circles. The activities at the center of the plot are in good agreement with those at the edge. Thus the spatial distribution of air HTO was fairly uniform above the Komatsuna canopy in the cultivated plot. The HTO specific activity in air moisture has the similar trend to that of air concentration. The HTO specific activity appears to be roughly constant during the last four days of the release period but fluctuates by a factor of two. This would suggest that the system was near steady-state with respect to HTO specific activity in air moisture at 0.5 m height on this location within the HT release period.

The HTO concentrations in air were strongly influenced by rain. The concentrations dropped by a factor of three to four following rainfalls of 8.5 mm on August 1-2 and 20.2 mm on August 4. When the rain ceased, the HTO concentration in air recovered within a day to the pre-rainfall level. After the HT release was stopped, the air HTO concentrations decreased gradually until rain started at around 22:00, August 8. The rain of 3.7 mm considerably reduced the HTO concentration. In the morning of August 9, however, the concentration slightly increased again. This HTO in air likely arose from reemission of HTO in the soil and vegetation in which relatively high concentrations of HTO existed, as shown in a later section.

**Figures 13** and **14** show respectively the time variations of air HTO concentrations and specific activities at various heights during the first three days (from July 27 to 29). The trends of air HTO concentrations and specific activities from August 6 to are shown in **Figs. 15** and **16**, respectively. It may be noticed that the HTO specific activities vary with diurnal cycles and such trend is more obvious in **Fig. 16**. The specific activities at 0.1 m height are higher than during the daytime than during the nighttime, but the trend at 1.0 m height shows an opposite tendency. The HTO concentrations and specific activities at 0.5 m height were

around the middle between those at 0.1 and 1.0 m. The height dependence of specific activities are larger during nighttime and smaller during the daytime than those of air HTO concentrations. The reasons are probably that an air HTO concentration is proportional to a product of specific activity in air moisture and absolute humidity and that the humidity becomes in general lower with height during the daytime, while it does not depend on height at night.

3.2.3 Vertical profiles of HT and HTO concentrations

Typical examples of vertical profile of HT concentration in air during the daytime and at night are shown in **Fig. 17**. The concentration profile is quite uniform during the daytime. On the other hand the decrease of the concentration with height is greater at night than during the daytime. As described above, such tendency is probably due to the difference of atmospheric mixing between the day and night. **Figures 18** shows examples of vertical profile of air HTO concentration. The decrease of concentration shows the same tendency as the air HT concentration.

3.2.4 HT and HTO concentrations in air released from the pipe and at 50 m distance from the experimental plot

Air HT and HTO concentrations released from the pipe were $3.25\times10^{9}$ and $1.39\times10^{7}$ Bq/m$^{3}$ on August 3, respectively. The HT concentration is four orders of magnitude greater than those in the air at the experimental plot. In addition to HT, HTO was also detected. In the HT release pipes, HT was mixed with air drawn from the atmosphere by blowers installed at the corner of the pipes and then released. Therefore HTO including in the atmosphere could be detected in the air released from the pipe. However, the HTO concentration detected in the air released from the pipe was considerably higher than the air HTO concentrations measured in the plot. This may be because HTO of high specific activity has been included as an impurity in the HT source. As described in the section 3.3.2, the HTO trap in the HT release system was disassembled about 60 hours after the HT release was started. Thus the air HTO concentrations measured after the disassembly might be affected by the HTO released from the HT source. **Table B.4** shows air HT and HTO concentrations at 0.5 m height at 50 m distance from the experimental plot. The HT concentrations are two orders of magnitude lower than those at the experimental plot.

3.2.5 Ratio of concentrations of HTO to HT in air

A ratio of HTO concentration in air to that of HT measured at 0.5 m height was calculated. The HTO/HT ratio over the whole release period is shown in **Table B.5** and **Fig. 19** together with air HTO concentrations. The time-variation of the ratio is similar to that of air HTO concentration. The ratio shows strong diurnal cycles similar to those of air HTO during the first 2 days after the start of the release. The ratio decreases by rainfall and

occasionally shows unexpected high peaks. The ratios averaged for eight hours during the daytime (10:00-18:00) and nighttime (22:00-6:00) were $(2.2\pm0.5)\times10^{-2}$ and $(1.2\pm0.4)\times10^{-2}$ respectively after 22:00 July 30 except for rainy periods. The HTO/HT ratios averaged in the daytime were about 1.8 times as large as those at night. The ratios averaged for 24 hours starting at 6:00 on August 6 and 7 and for 10 hours starting at 6:00 on August 8 were $(2.0\pm0.4)\times10^{-2}$, $(2.0\pm0.6)\times10^{-2}$ and $(2.5\pm0.4)\times10^{-2}$, respectively. In this calculation, the two erroneous peaks of HTO/HT ratio observed at 247 and 259 hours are omitted. These values support that the system almost reached steady state with respect to air HTO within the HT release period.

3.3 Soil Conditions and HTO Concentrations in Soil Water

All soil conditions measured by JAERI are given in Appendix C. **Tables C.1-C.4** show the data of soil samples taken at furrows in Plot 3, including bulk density, water content expressed on the basis of dry soil weight, water content of wet soil weight and free pore volume fraction. **Tables C.5** and **C.6** show the water contents of dry soil weight and free pore volume fractions at ridges in the Plot 3. The data of the natural soil in Plot 4 are tabulated in **Tables C.7-C.10**. In the calculation of free pore volume fraction, 2.7 g/cm$^3$ of soil particle density was assumed. Soil conditions at a distance of 50 m from the experimental plot are shown in **Tables C.11-14**.

**Figures 20-22** show depth profiles of water content of dry soil weight and free pore volume fraction averaged for the HT release period for the soils at furrows and ridges in Plot 3 and in Plot 4. The profile of water content at furrows are very similar to that at ridges, but the pore fraction shows different profiles. The low porosity of the surface soil at the furrows was probably caused by treading on the furrows after planting the crops. The water contents and pore fractions of soils in surface layer, that is a root zone, in the natural plot are higher than those of the cultivated plot. Nevertheless the averages of the water contents from the surface down to 20 cm depth show the almost same values; 44.1, 40.3 and 41.0 wt%-dry soil for the soils at furrows and ridges in Plot 3 and in Plot 4. The averages of the free pore volume fractions are 24.6, 24.3 and 27.4 % respectively; the averages in Plot 3 are almost the same value but that in Plot 4 is slightly larger because of root effect.

**Figures 23** and **24** show time trends of water content of dry soil weight and free pore volume fraction at depths of 0-2.5, 5-7.5, 10-15 cm. The water content in the 0-2.5 cm layer increased immediately after rainfall and then gradually decreased; this phenomenon is typically observed after about 200 hours in **Fig. 23**. The peak observed on the first day in the 5-7.5 cm layer and shown by an open arrow in the figure is attributed to the heavy rain fallen a day before the HT release was started. The water content in 10-15 cm layer fluctuated little over the

experimental period. Fluctuations of the free pore volume fractions are noticeably larger than those of water contents. The pore fractions were decreased by heavy rain but returned to the former levels in a few days.

HTO deposits and specific activities of HTO in water extracted from surface soils (0-2.5 cm) at the furrows and ridges in Plot 3 and at Plot 4 are shown respectively in **Tables C.15-C.19.** The time trends of specific activity are shown in **Figs. 25** and **26**, along with HTO specific activity in air moisture at a height of 50 cm. The soil HTO activity in the furrow increased until about 70 hours and became roughly constant from 70 to 250 hours. Another increase was observed at about 250 hours. The surface soil still kept high radioactivities after the end of the release. Most of the HTO specific activities in the ridge are higher than those in the furrow, but they show fairly similar trends of variation. The rainfall that occurred several times during the experiment did not result in a large reduction of the soil HTO concentrations in the furrow, while the soil HTO concentrations in the ridge decreased by a factor of three following the rainfall of 20.2 mm at about 180 hours. The HTO concentrations in the ridge soil appear to be almost constant during the last three days of the release period. This supports the observation that HTO concentrations in air were near steady-state over the period. The soil water in the natural plot showed higher HTO concentrations than those in the ridge and furrow. As discussed in the previous paper [12], this was most likely caused by the difference in depth profiles of HT-oxidizing bacteria between the cultivated and natural plots [14]. **Tables C.20** and **21** show HTO deposits and specific activities in soil moisture at 50 m from the release pipe.

**Figures 27** and **28** show depth profiles of HTO specific activity in soil moisture at furrows in Plot 3 and in Plot 4, respectively. In general, the activity decreases exponentially with depth from surface to about 20 cm in depth. But it levels off in deeper layers than 20 cm at Plot 3. After a heavy rainfall encountered at 198 hours, the activity in the surface layer soil considerably decreased and a peak was observed at a deeper layer.

3.4 HTO Concentrations in Rain and Dew

**Tables B.6** and **B.7** give HTO specific activities in rain water and dew respectively. These activities are plotted in **Fig. 29** with HTO specific activities of air moisture sampled at heights of 0.1 and 0.5 m. The activities in rain water are generally lower than air HTO activities measured at the same periods. High activities in rain water were observed at 138 and 199 hr. It may be caused by absorption of atmospheric HTO into water for the period of more than 14 hours that the water containers were left in the experimental plot after the rain stopped. Specific activities in dew water agree roughly with those in air HTO moisture at a height of 0.1 m. The reason is probably that the dew condensed on the sampling plate at about

0.2 m height was collected.

### 3.5 HTO Deposition to Water Surface

**Table B.8** shows deposits of air HTO to water surface. The table also includes HTO fluxes from air to water and $H_2O$ fluxes from water to air. The time trend of HTO flux is shown in **Fig. 30**. The HTO flux shows a diurnal cycle; high during the day and low at night. The mean HTO and $H_2O$ fluxes are 11.4 $Bq \cdot m^{-2} \cdot s^{-1}$ and $3.5 \times 10^{-2}$ $g \cdot m^{-2} \cdot s^{-1}$, respectively. The mean $H_2O$ flux is in good agreement with the mean evapo-transpiration rate of $2.47 \times 10^{-2}$ $g \cdot m^{-2} \cdot s^{-1}$ described in the section 3.1.

## 4. SUMMARY

This report comprises a database that can be used to develop and validate tritium models to assess doses to the general public due to HT continuously released from fusion facilities into the atmosphere. The data was collected in the 1994 chronic HT release experiment carried out at the Chalk River Laboratories in Canada. The data set is extensive, containing meteorological conditions such as solar radiation, net solar radiation, wind speed, air temperature and humidity, soil temperature and soil heat flux; soil conditions such as bulk density, water content and free pore volume fraction; HT and HTO concentrations in air, HTO concentrations in soil moisture and HTO deposition to water surface. Evapo-transpiration rates and turbulent diffusivity were derived from the observed meteorological data. Other data, including vegetation properties and HTO and OBT concentrations in vegetation will be published soon in another report.

The air temperature ranged from 5 to 28 °C at 1 m height and the average was 17 °C. The wind speed usually ranged between 1 and 3 m/s during the daytime and very calm at night. Rain fell several times in a range of 0.8-20.2 mm during the HT release period. The average of water content of dry soil weight from the surface to 20 cm depth was about 40 wt% and there is no large difference between natural and cultivated plots. However these depth profiles are very different and the water contents in a surface layer in the natural plot are higher than those of the cultivated plot. The HTO concentrations in air and soil were immediately detected after starting a continuous HT release to the atmosphere. The HTO concentrations increased with time and then leveled off roughly during the last 3 or 4 days of the release period, which had no rainfall. This finding suggests that the deposition of HT from air to soil followed by reemission of HTO from soil to air was near steady-state at the end of the release period.

ACKNOWLEDGEMENTS

The authors would like to express their gratitude to Dr. P.A. Davis, AECL, B.D. Amiro, Canadian Forest Service, and Dr. F.S. Spencer, Ontario Hydro Technologies (retired), for their excellent arrangements for the experiment and kind preparation of the laboratory facilities and equipment. They also wish to acknowledge Profs. Y. Ichimasa and M. Ichimasa, Ibaraki University, for their helpful advice on the present work.

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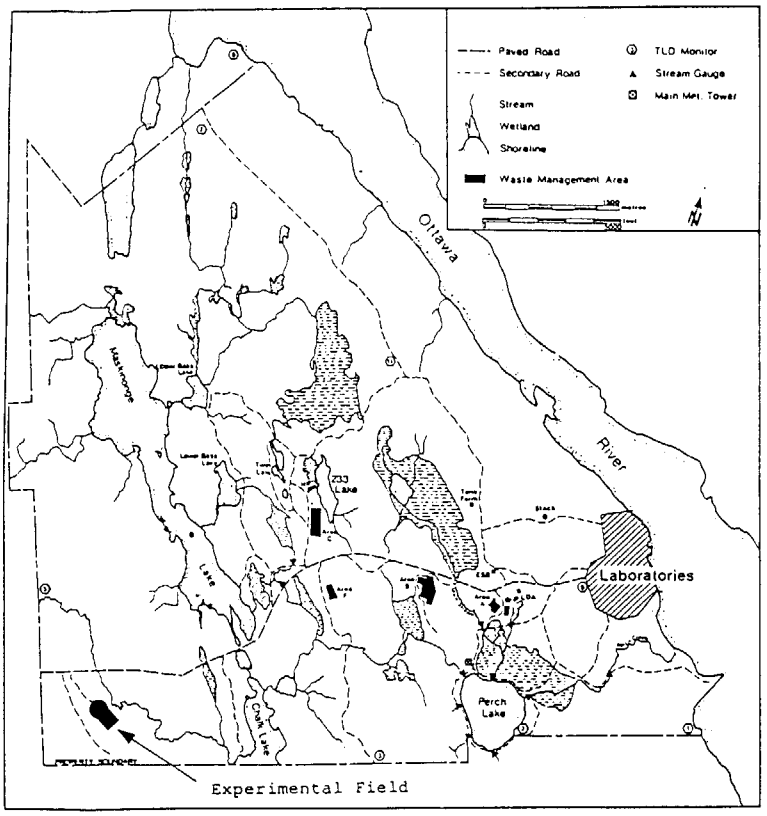



Fig. 1 Location of the experimental site in the Chalk River Laboratories.

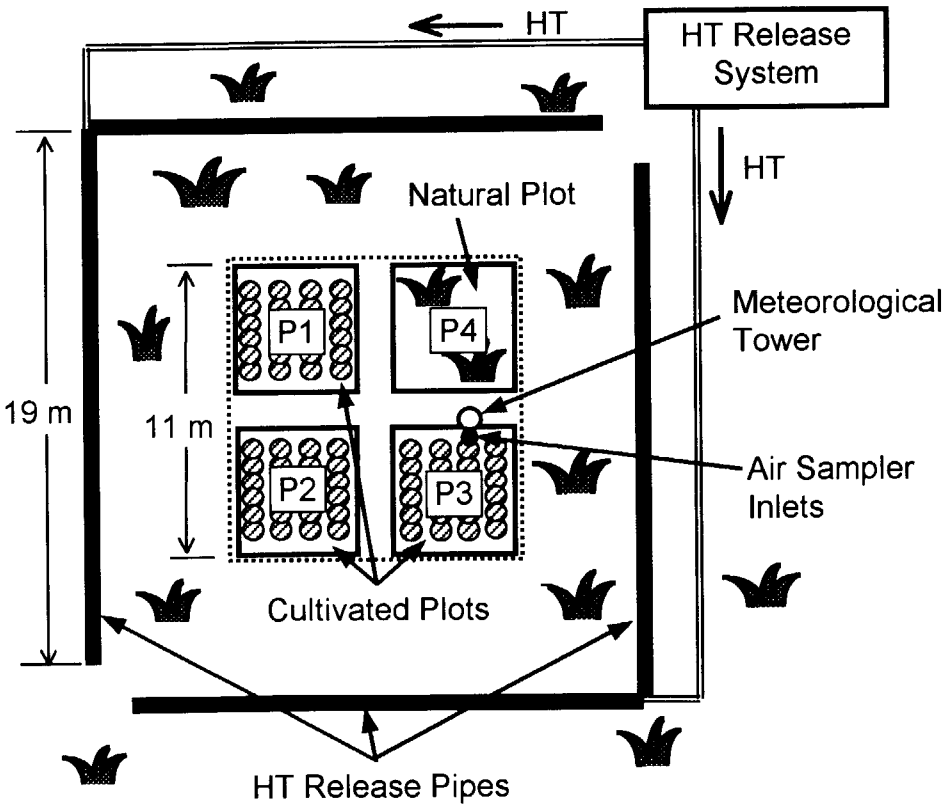



Fig. 2 Layout of the experimental area and location of the air sampler.

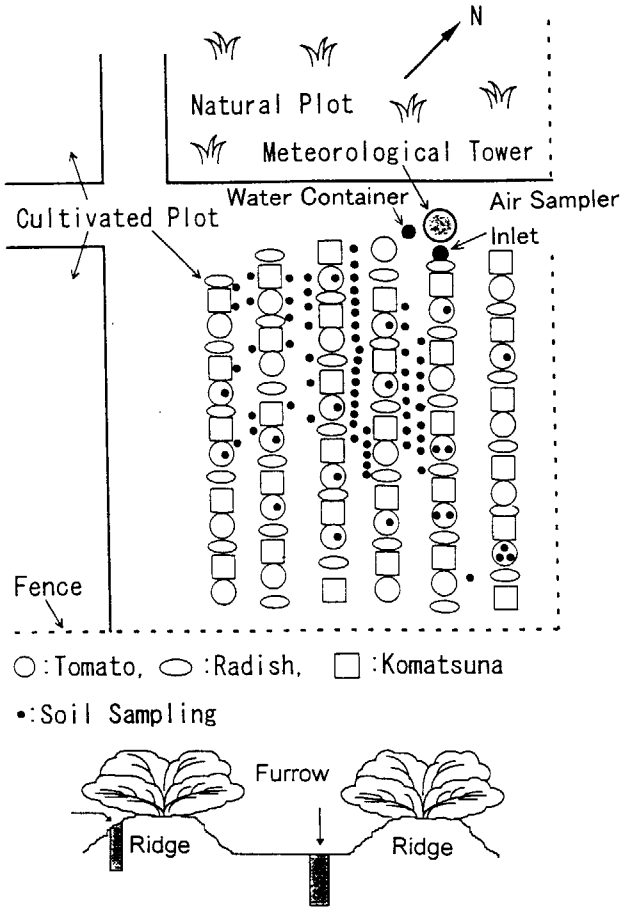



Fig. 3 Detailed layout and locations of air and soil sampling at Plot 3.

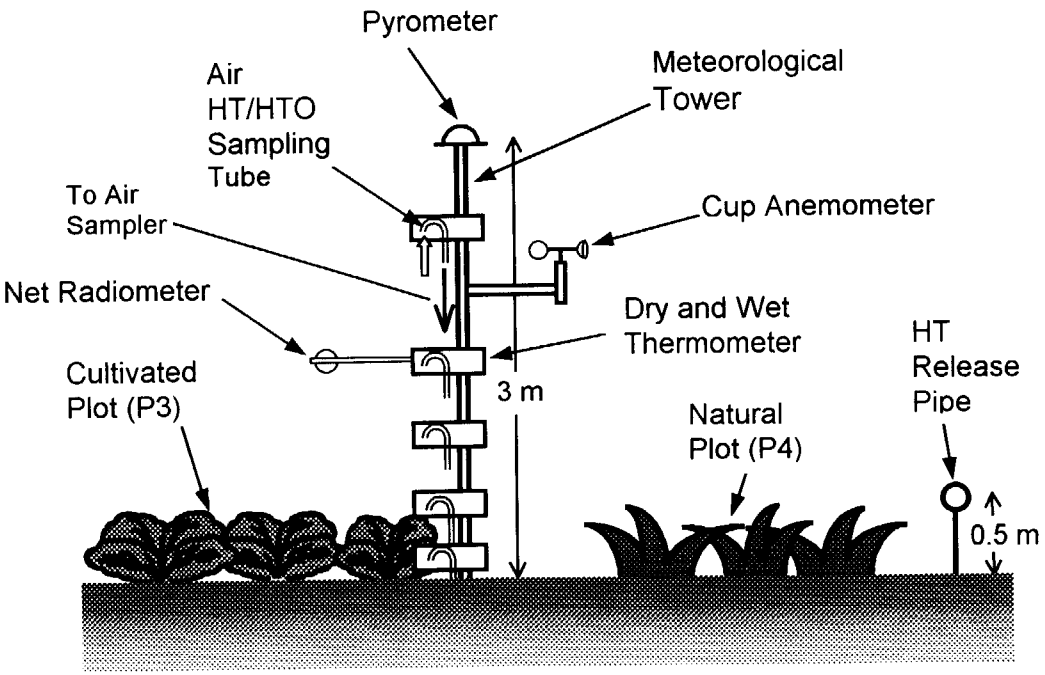



Fig. 4 Meteorological tower and locations of air sampling tubes.

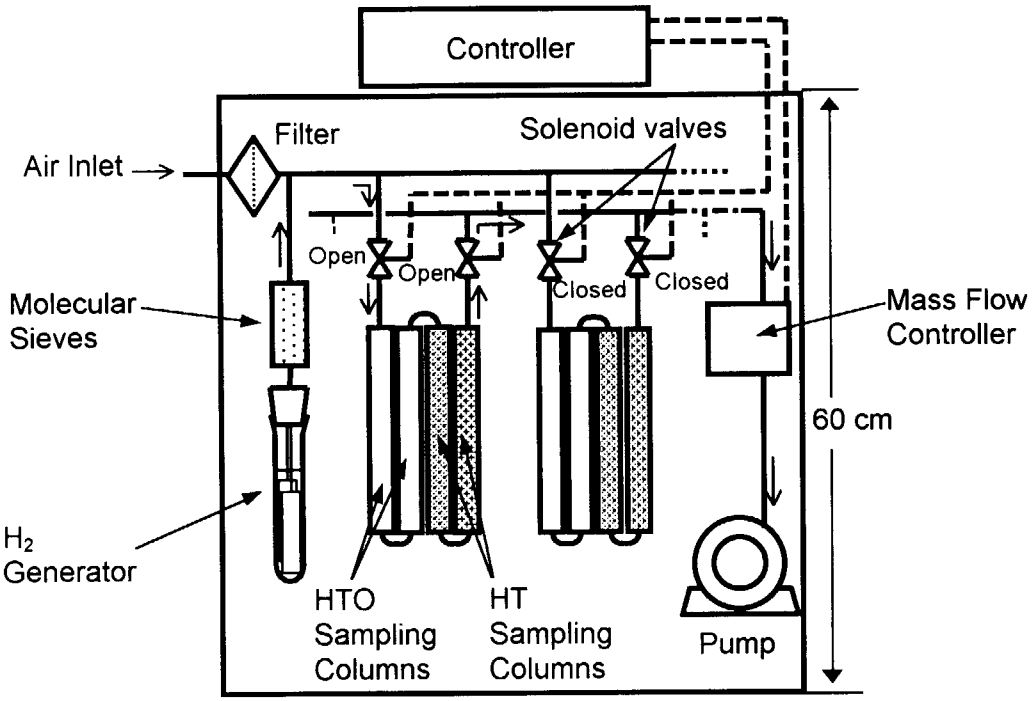
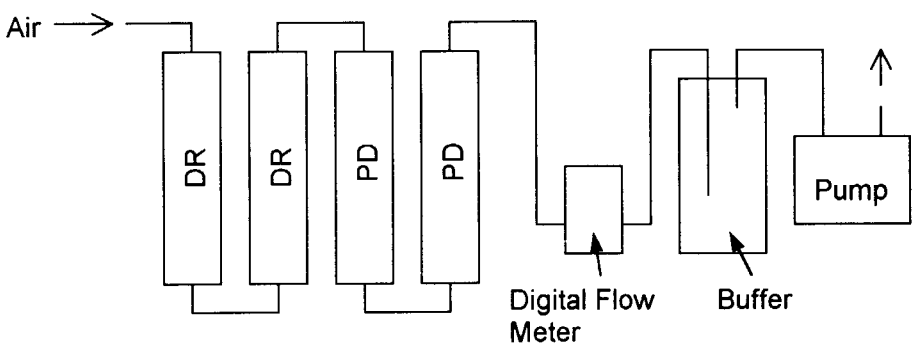
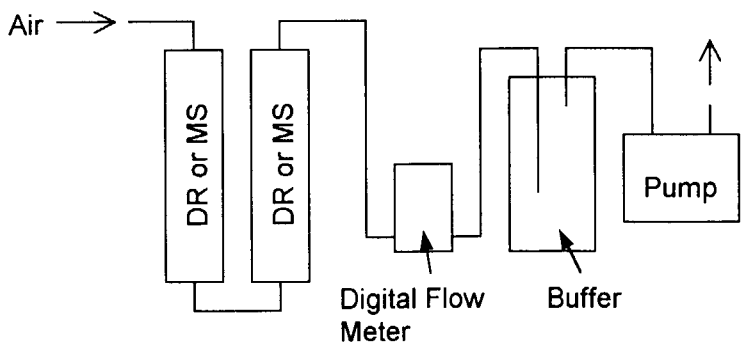



Fig. 5 Schematic drawing of an automatic HT/HTO discriminating sampler.




(a) Manual Air HT/HTO Discriminating Sampler




(b) Manual Air HTO Sampler

Fig. 6 Schematic diagrams of manual HT/HTO discriminating and HTO samplers. DR: Drierite + $CaCl_2$, MS: Molecular Sieves, PD: paradium aluminum.

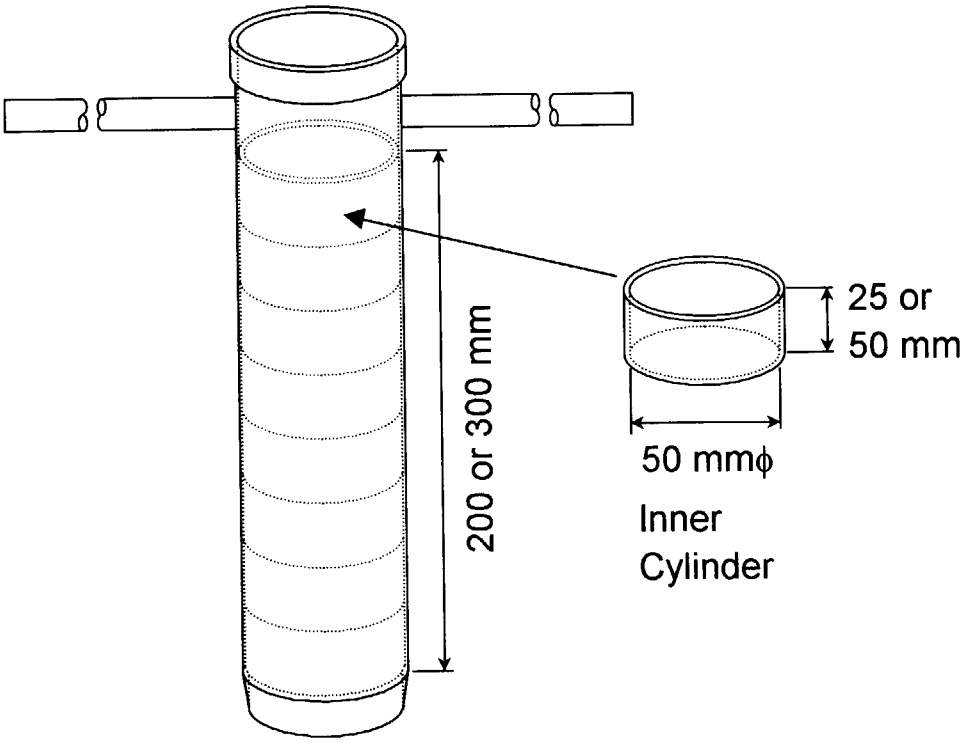



Fig. 7 Soil core sampler.

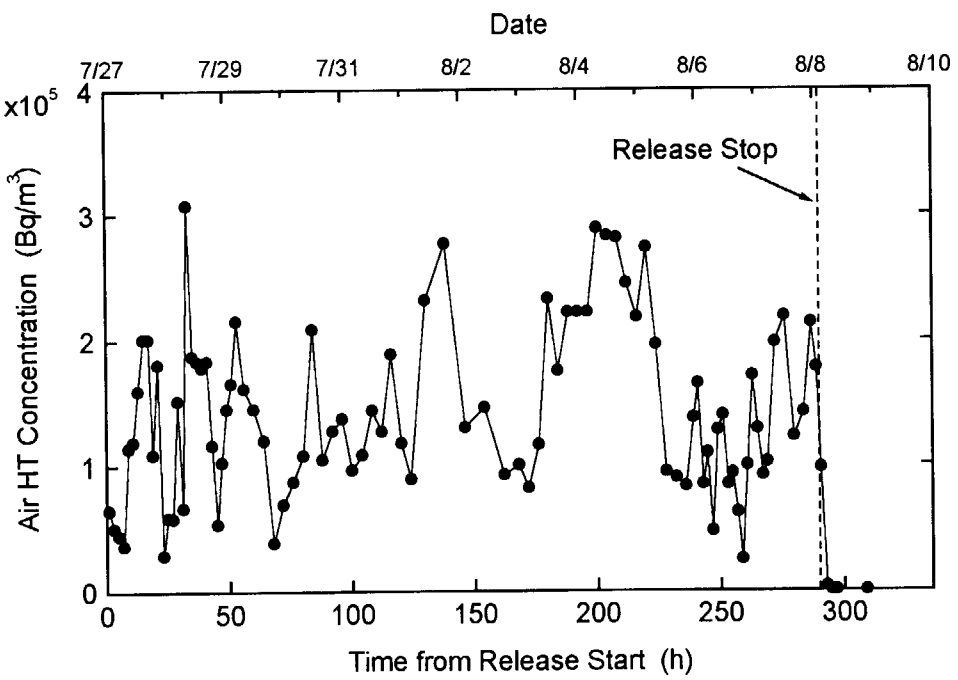



Fig. 8 Time trend of HT concentrations in air at 0.5 m height.
The ticks on the upper axis correspond to noon.

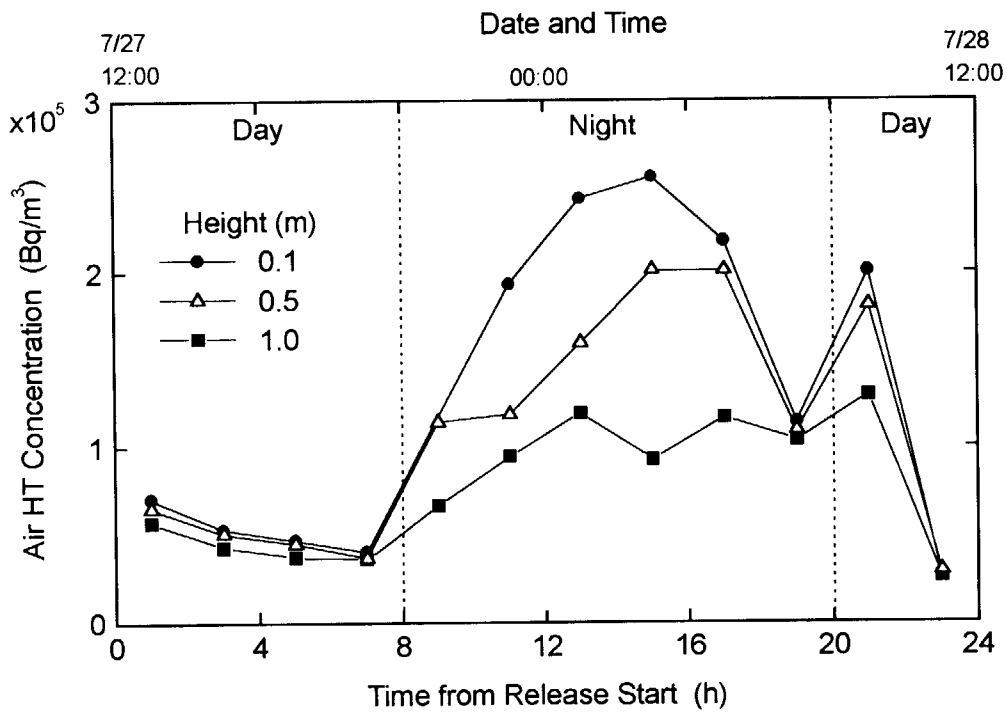



Fig. 9 Air HT concentrations at 0.1, 0.5 and 1.0 m heights during the first release day.

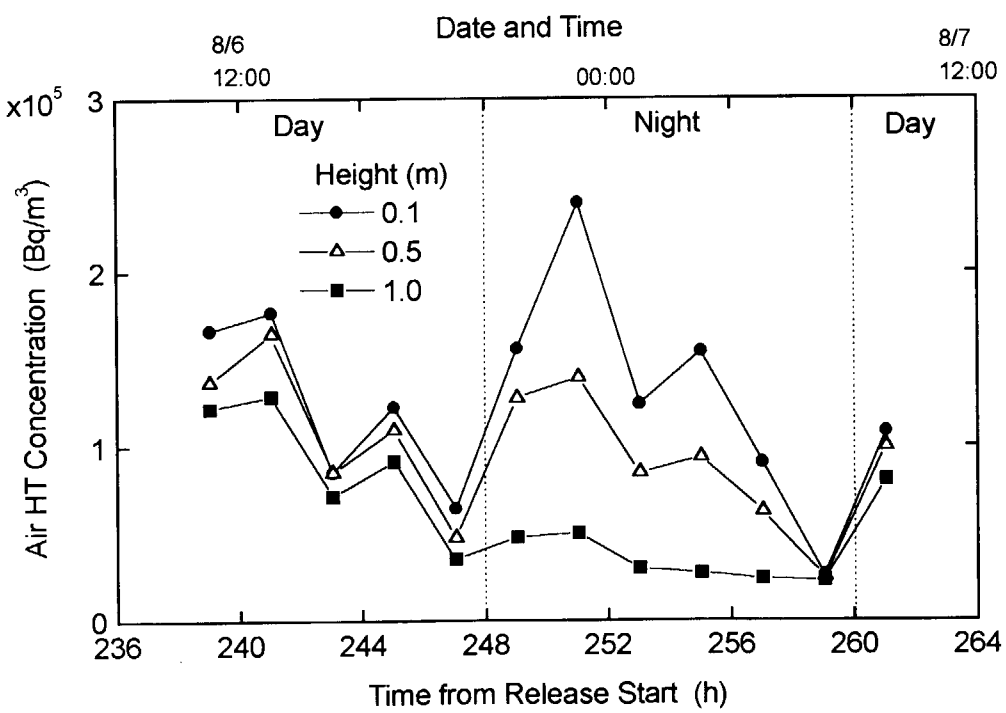



Fig. 10 Air HT concentrations at 0.1, 0.5 and 1.0 m heights 10 days after the release start.

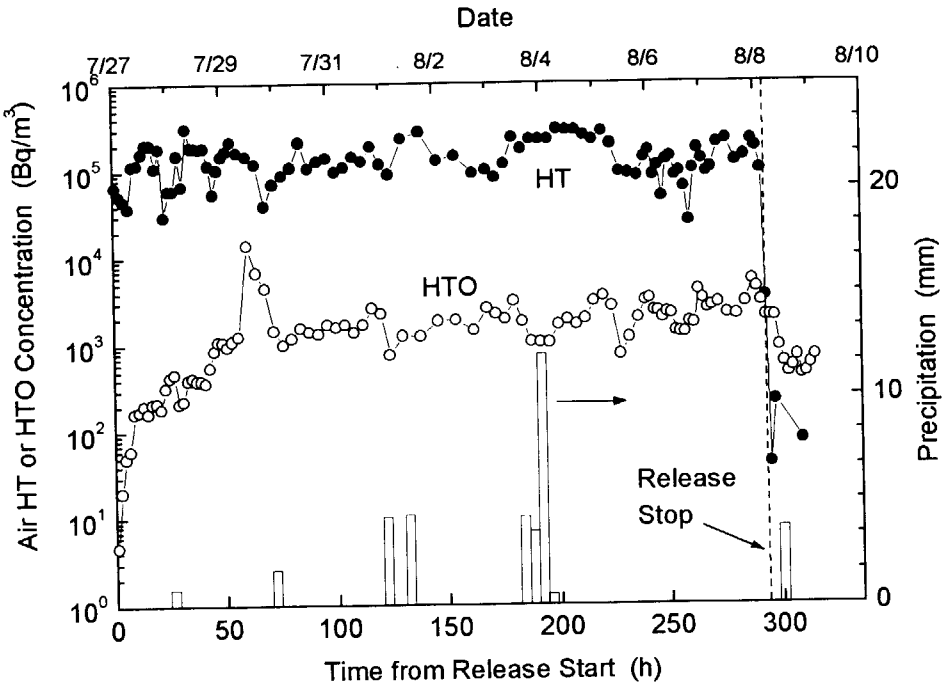



Fig. 11 Trends of HTO and HT concentrations in air.
The ticks on the upper axis correspond to noon.

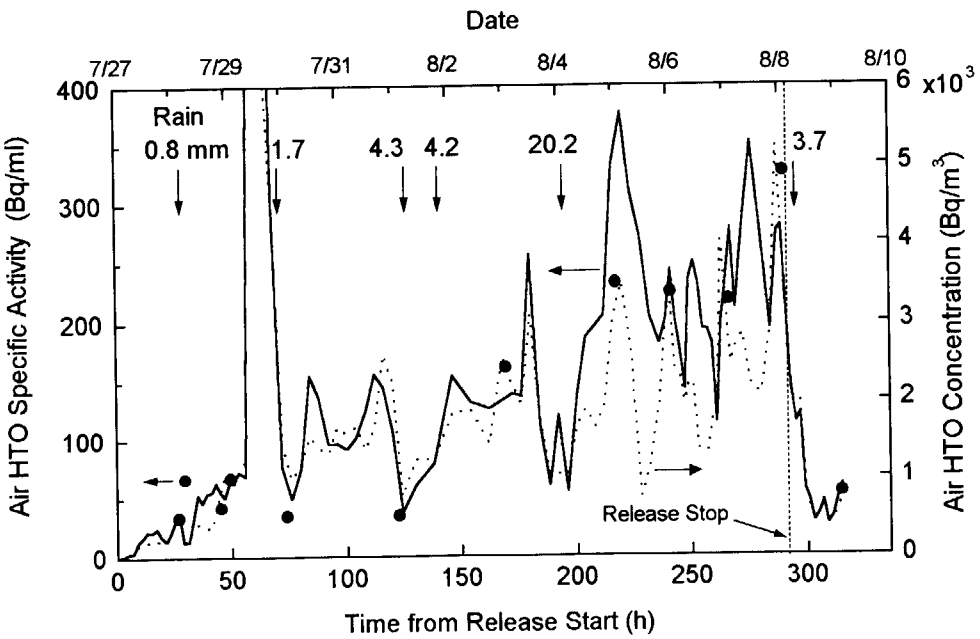



Fig. 12 Air HTO specific activities (solid line) and concentrations (dotted line) as a function of time. The closed circles show air HTO specific activities at the center of Plot 3. The ticks on the upper axis correspond to noon.

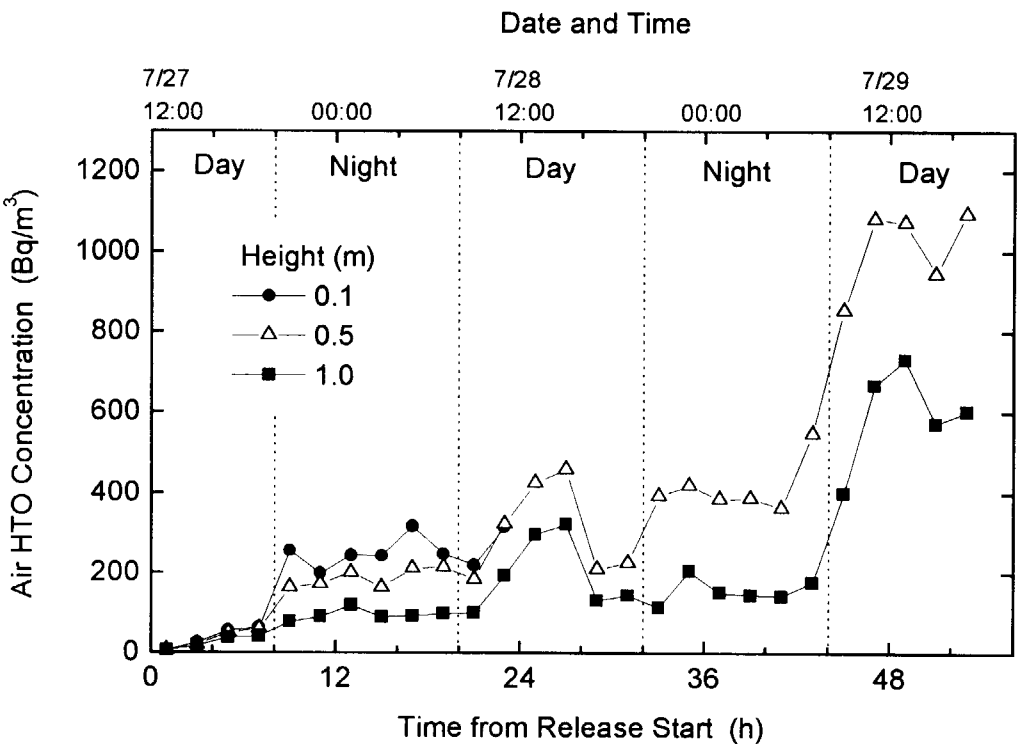



Fig. 13 Air HTO concentrations at 0.1, 0.5 and 1.0 m heights during the first three days from July 27 to 29.

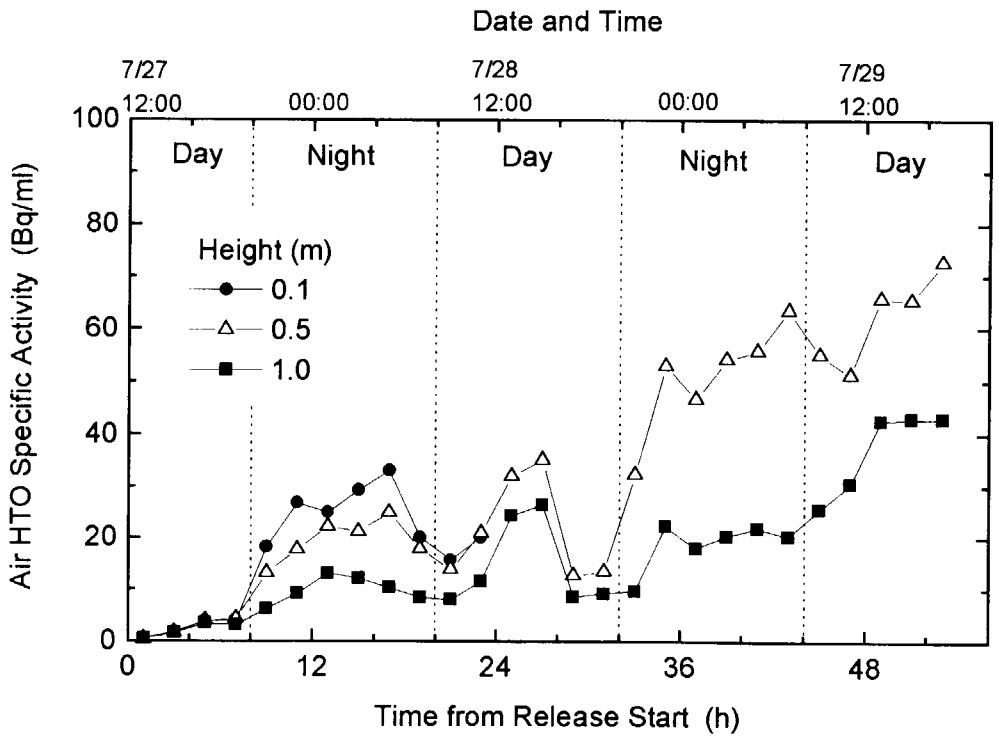



Fig. 14 Air HTO specific activities at 0.1, 0.5 and 1.0 m heights during the first three days from July 27 to 29.

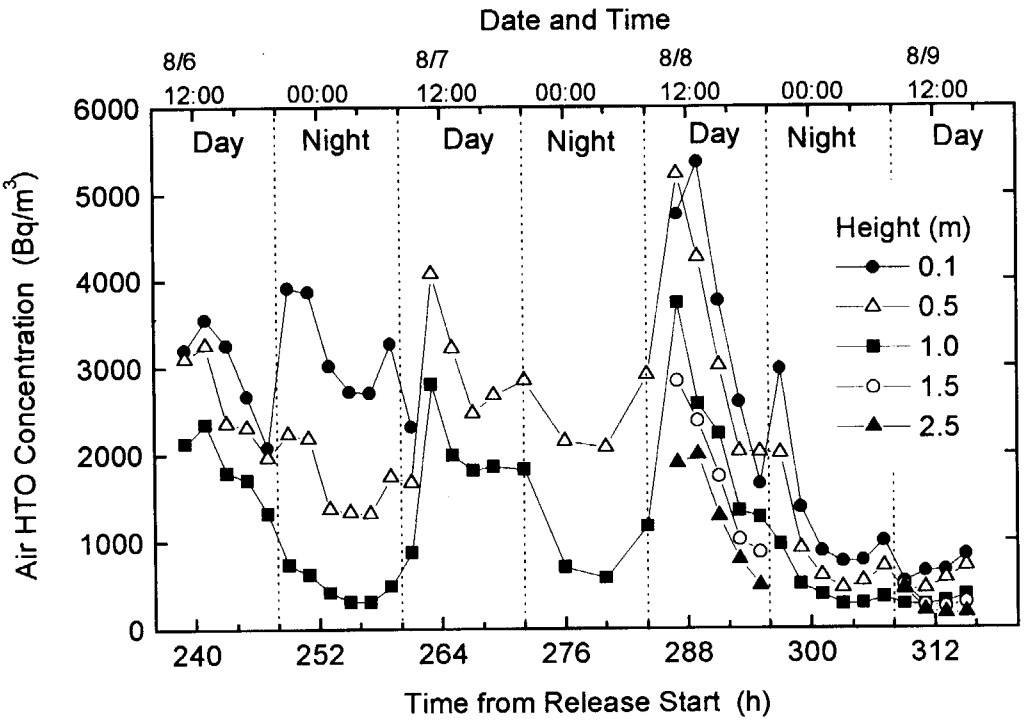



Fig. 15 Air HTO concentrations at 0.1, 0.5, 1.0, 1.5 and 2.5 m heights from August 6 to 9.

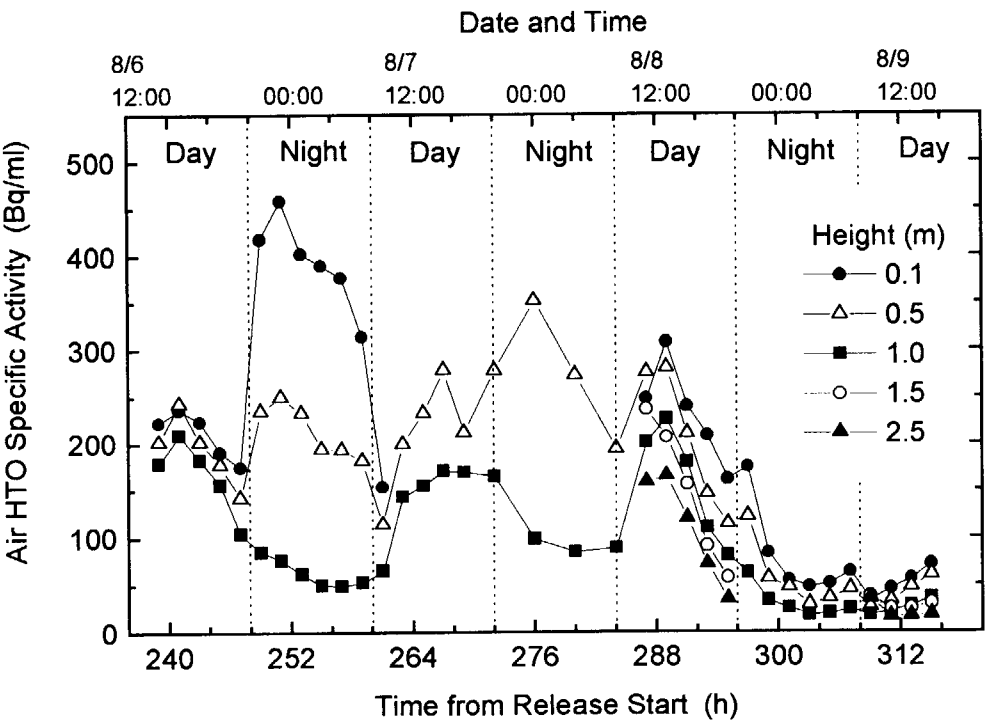



Fig. 16 Air HTO specific activities at 0.1, 0.5, 1.0, 1.5 and 2.5 m heights from August 6 to 9.

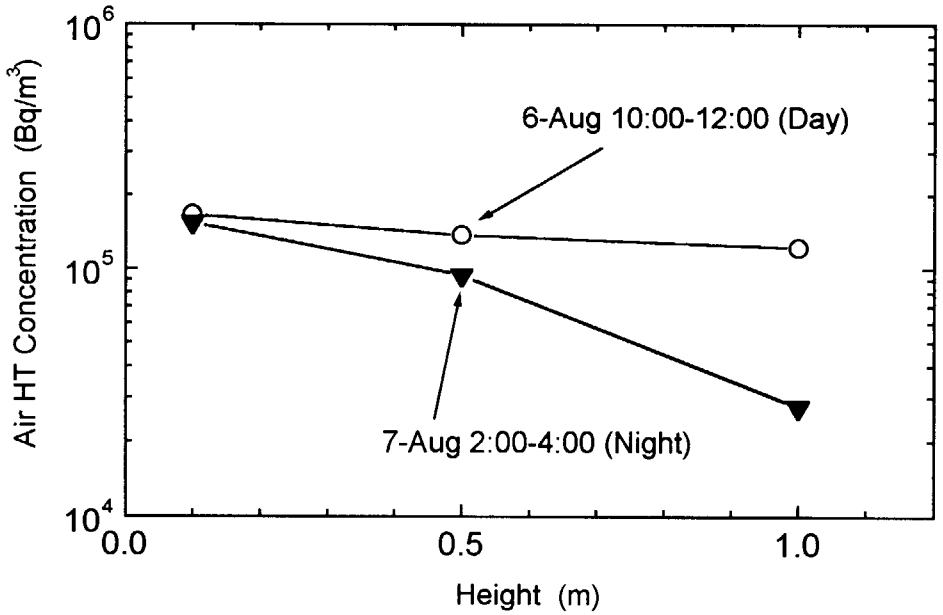



Fig. 17 Vertical profiles of air HT concentration.

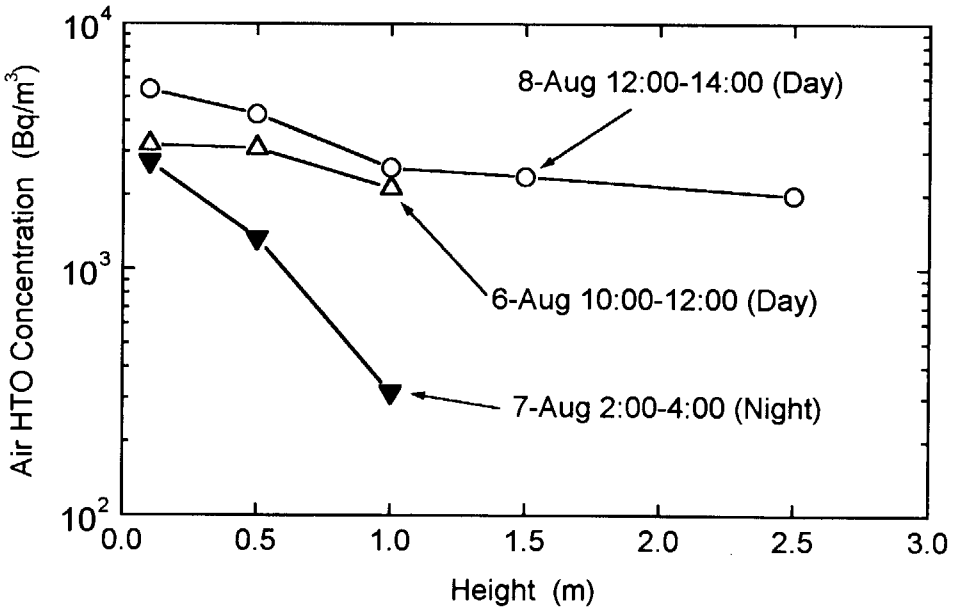



Fig. 18 Vertical profiles of air HTO concentration.

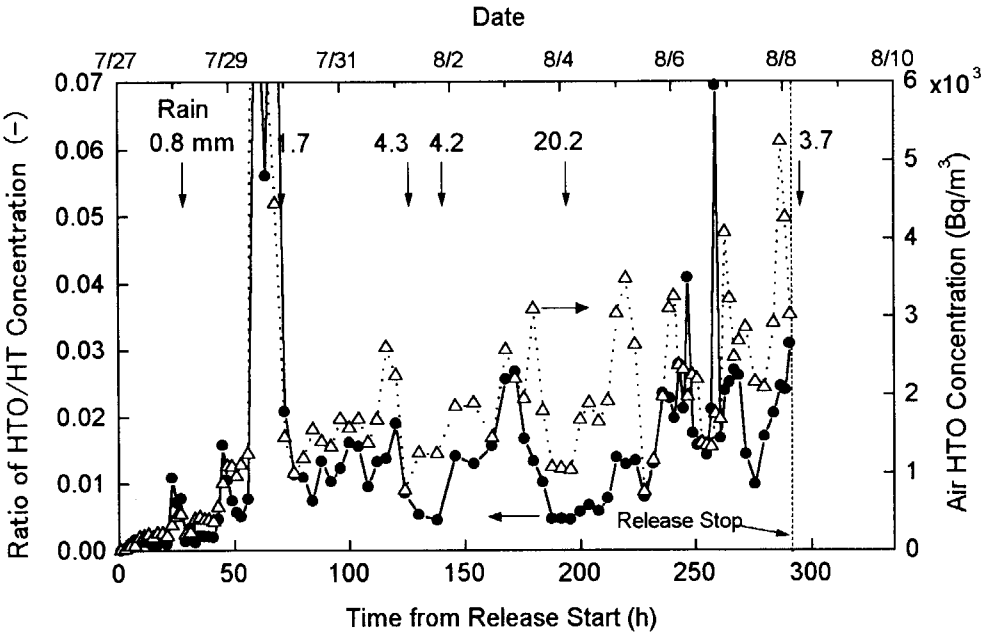



Fig. 19 Ratio of HTO/HT concentrations in air.

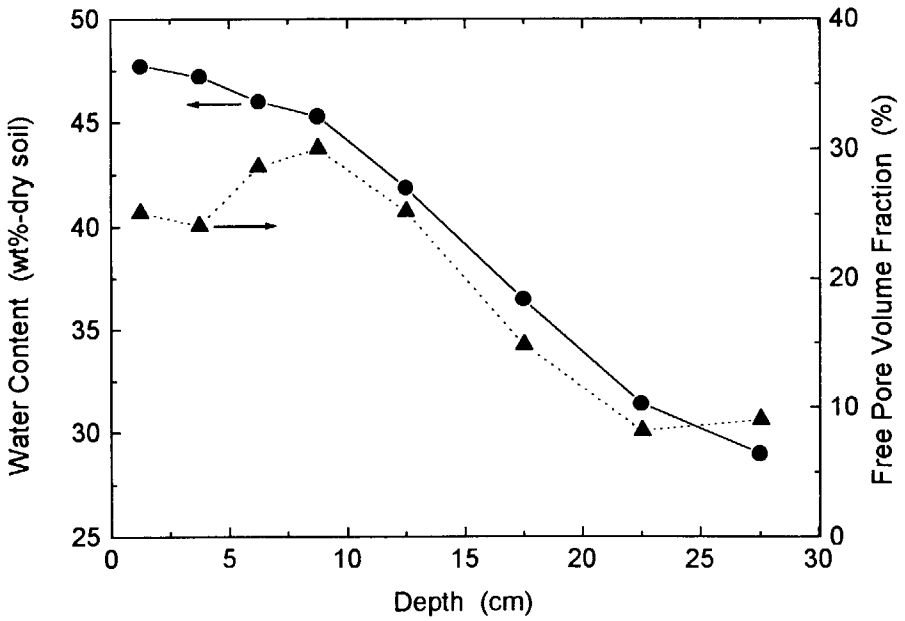



Fig. 20 Depth profiles of water content of dry soil weight and free pore volume fraction averaged for the HT release period for soil taken at furrows in Plot 3.

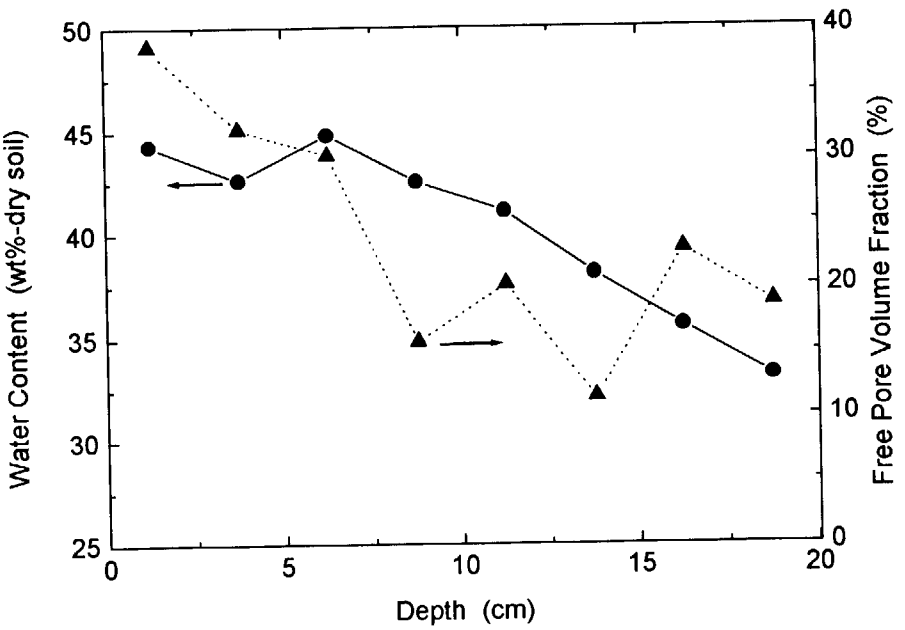



Fig. 21 Depth profiles of water content of dry soil weight and free pore volume fraction averaged for the HT release period for soil taken at ridges in Plot 3.

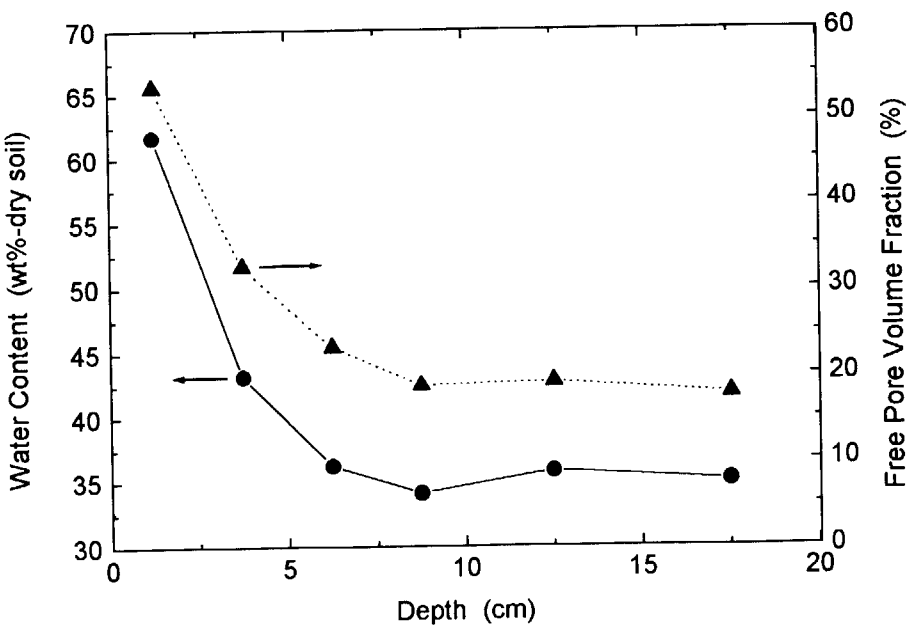



Fig. 22 Depth profiles of water content of dry soil weight and free pore volume fraction averaged for the HT release period for soil taken in Plot 4.

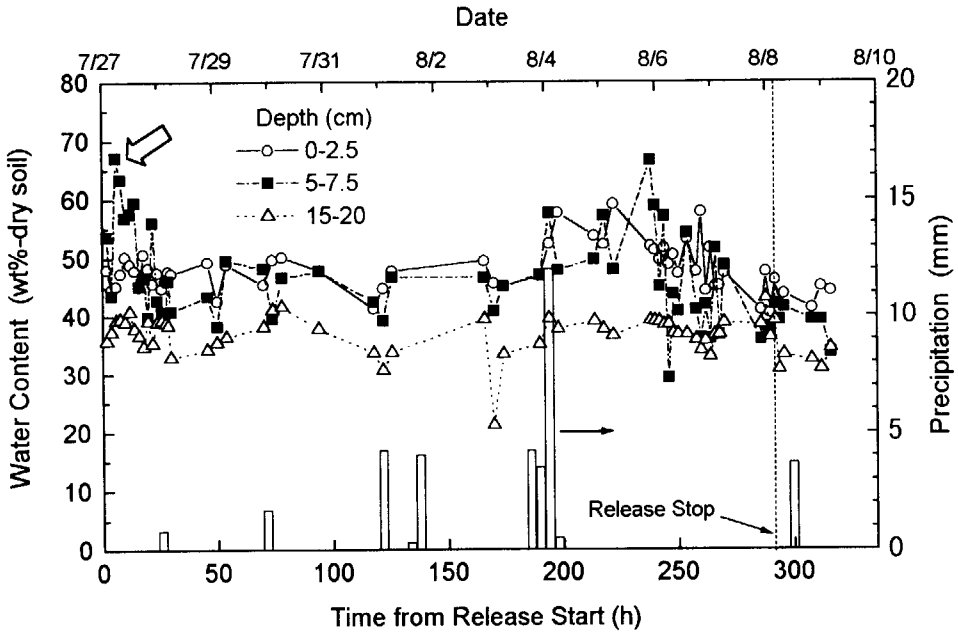



Fig. 23 Time trends of water content of dry soil weight at furrows in Plot 3. The peak shown by the open arrow is attributed to a heavy rain before the start of the release.

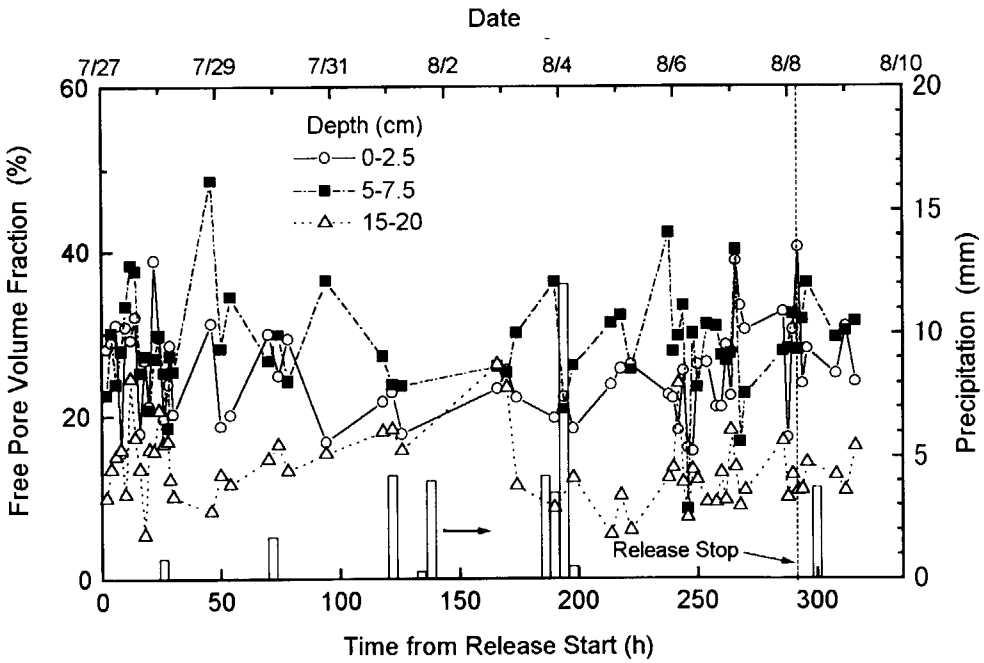



Fig. 24 Time trends of free pore volume fraction at furrows in Plot 3.

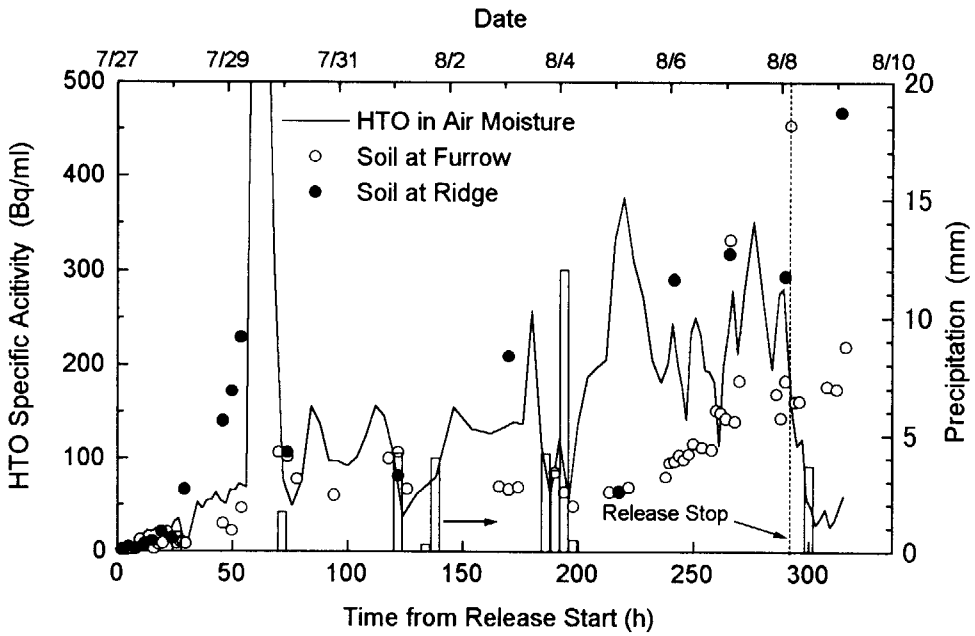



Fig. 25 Time trends of HTO specific activity in soil moisture at furrows and ridges in Plot 3.

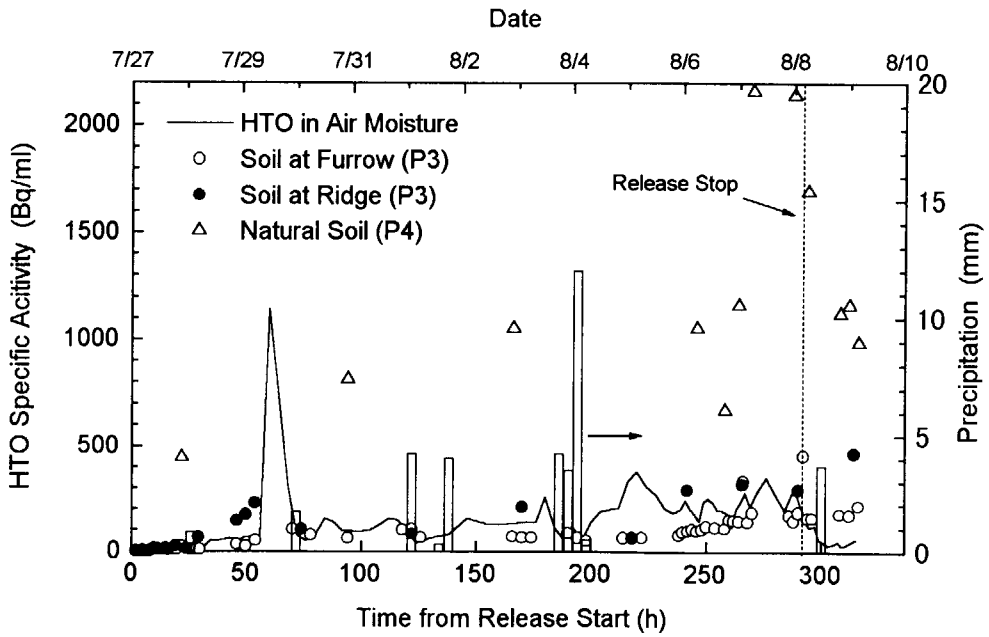



Fig. 26 Time trends of HTO specific activity in soil moisture in Plot 4.

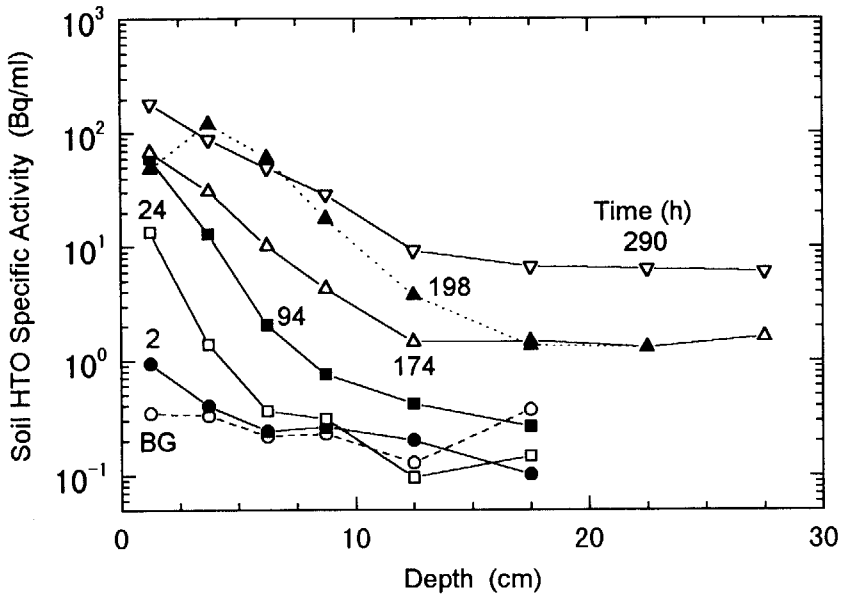



Fig. 27 Depth profiles of HTO specific activity in soil moisture in Plot 3.

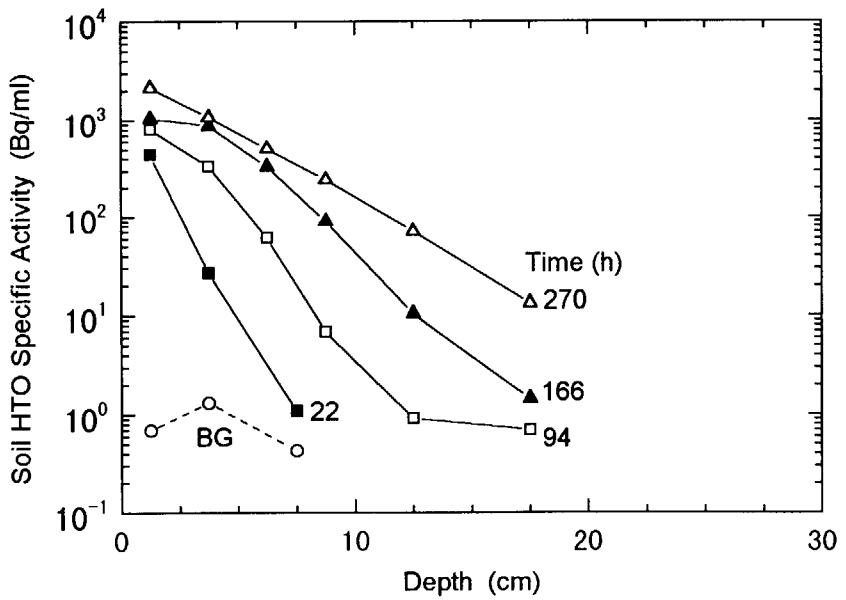



Fig. 28 Depth profiles of HTO specific activity in soil moisture in Plot 4.

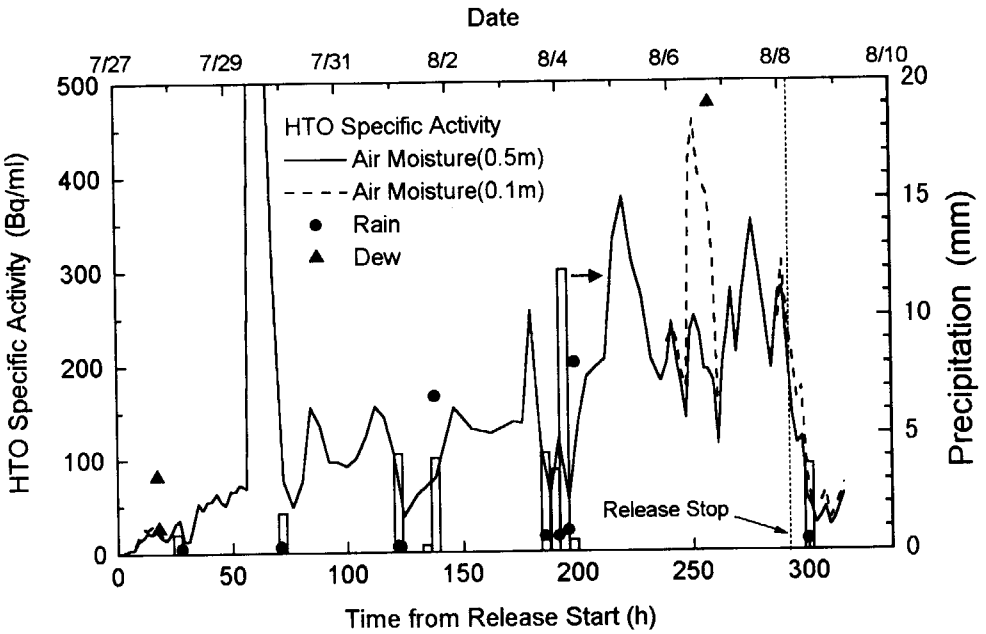



Fig. 29 Specific activity of HTO in rain and dew.

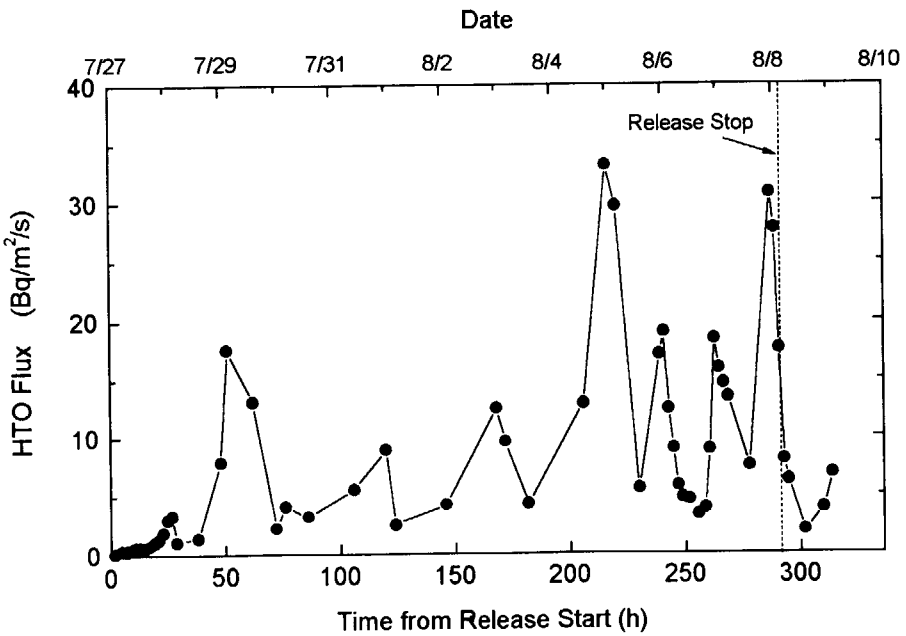



Fig. 30 Time trend of HTO flux from the air to water surface.

# APPENDIX A.

## Tables of Meteorological Data

Table A.1 Solar radiation, net solar radiation, soil temperature and soil heat flux

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Solar radiation ($W/m^2$) | Net solar radiation ($W/m^2$) | Wind speed (m/s) | Soil temperature (°C) | Soil heat flux ($W/m^2$) |
|---|---|---|---|---|---|---|---|---|
| 1 | 27-Jul 12:00 | 27-Jul 13:00 | 0.5 | 7.16E+02 | 8.93E+02 | 1.20 | 24.10 | 1.11E+02 |
| 2 | 27-Jul 13:00 | 27-Jul 14:00 | 1.5 | n.m. | n.m. | n.m. | n.m. | n.m. |
| 3 | 27-Jul 14:00 | 27-Jul 15:00 | 2.5 | 5.21E+02 | 7.05E+02 | 0.99 | 24.95 | 6.74E+01 |
| 4 | 27-Jul 15:00 | 27-Jul 16:00 | 3.5 | 5.61E+02 | 5.08E+02 | 1.03 | 25.72 | 8.20E+01 |
| 5 | 27-Jul 16:00 | 27-Jul 17:00 | 4.5 | 6.67E+02 | 5.25E+02 | 1.40 | 27.38 | 8.89E+01 |
| 6 | 27-Jul 17:00 | 27-Jul 18:00 | 5.5 | 2.81E+02 | 1.89E+02 | 0.82 | 26.85 | 3.56E+01 |
| 7 | 27-Jul 18:00 | 27-Jul 19:00 | 6.5 | 3.22E+02 | 1.93E+02 | 0.77 | 26.34 | 3.30E+01 |
| 8 | 27-Jul 19:00 | 27-Jul 20:00 | 7.5 | 2.00E+02 | 8.04E+01 | 0.39 | 25.18 | 8.56E+00 |
| 9 | 27-Jul 20:00 | 27-Jul 21:00 | 8.5 | 2.45E+01 | -4.77E+01 | 0.05 | 22.28 | -4.30E+01 |
| 10 | 27-Jul 21:00 | 27-Jul 22:00 | 9.5 | -1.00E+00 | -4.67E+01 | 0.01 | 20.04 | -5.34E+01 |
| 11 | 27-Jul 22:00 | 27-Jul 23:00 | 10.5 | n.m. | n.m. | n.m. | n.m. | n.m. |
| 12 | 27-Jul 23:00 | 28-Jul 00:00 | 11.5 | 0.00E+00 | -4.89E+01 | 0.07 | 17.32 | -5.61E+01 |
| 13 | 28-Jul 00:00 | 28-Jul 01:00 | 12.5 | 0.00E+00 | -4.27E+01 | 0.22 | 16.56 | -5.02E+01 |
| 14 | 28-Jul 01:00 | 28-Jul 02:00 | 13.5 | -2.50E-01 | -5.33E+01 | 0.27 | 15.90 | -5.19E+01 |
| 15 | 28-Jul 02:00 | 28-Jul 03:00 | 14.5 | -7.50E-01 | -5.66E+01 | 0.19 | 15.18 | -5.21E+01 |
| 16 | 28-Jul 03:00 | 28-Jul 04:00 | 15.5 | -2.50E-01 | -5.36E+01 | 0.27 | 14.45 | -5.40E+01 |
| 17 | 28-Jul 04:00 | 28-Jul 05:00 | 16.5 | 0.00E+00 | -3.41E+01 | 0.29 | 14.12 | -4.55E+01 |
| 18 | 28-Jul 05:00 | 28-Jul 06:00 | 17.5 | 5.00E-01 | -3.62E+01 | 0.57 | 14.03 | -4.06E+01 |
| 19 | 28-Jul 06:00 | 28-Jul 07:00 | 18.5 | 2.65E+01 | 8.44E+00 | 0.52 | 14.41 | -2.24E+01 |
| 20 | 28-Jul 07:00 | 28-Jul 08:00 | 19.5 | 1.25E+02 | 8.34E+01 | 1.16 | 15.30 | -5.85E+00 |
| 21 | 28-Jul 08:00 | 28-Jul 09:00 | 20.5 | 1.45E+02 | 7.39E+01 | 1.04 | 15.83 | -4.35E+00 |
| 22 | 28-Jul 09:00 | 28-Jul 10:00 | 21.5 | 2.83E+02 | 2.03E+02 | 1.18 | 16.42 | 1.87E+00 |
| 23 | 28-Jul 10:00 | 28-Jul 11:00 | 22.5 | 5.57E+02 | 4.57E+02 | 0.77 | 18.65 | 6.61E+01 |
| 24 | 28-Jul 11:00 | 28-Jul 12:00 | 23.5 | 7.17E+02 | 6.19E+02 | 0.94 | 24.71 | 1.62E+02 |
| 25 | 28-Jul 12:00 | 28-Jul 13:00 | 24.5 | 8.39E+02 | 7.07E+02 | 1.17 | 27.67 | 1.71E+02 |
| 26 | 28-Jul 13:00 | 28-Jul 14:00 | 25.5 | 8.19E+02 | 6.73E+02 | 1.32 | 28.05 | 8.40E+01 |
| 27 | 28-Jul 14:00 | 28-Jul 15:00 | 26.5 | 8.51E+02 | 7.12E+02 | 1.25 | 27.92 | 1.09E+02 |
| 28 | 28-Jul 15:00 | 28-Jul 16:00 | 27.5 | 3.66E+02 | 2.83E+02 | 0.98 | 26.91 | 3.68E+01 |
| 29 | 28-Jul 16:00 | 28-Jul 17:00 | 28.5 | 1.41E+02 | 9.01E+01 | 0.86 | 23.18 | -3.66E+01 |
| 30 | 28-Jul 17:00 | 28-Jul 18:00 | 29.5 | 3.36E+02 | 2.42E+02 | 1.06 | 24.86 | 6.05E+01 |
| 31 | 28-Jul 18:00 | 28-Jul 19:00 | 30.5 | 9.20E+01 | 4.26E+01 | 0.51 | 23.98 | -3.39E+00 |
| 32 | 28-Jul 19:00 | 28-Jul 20:00 | 31.5 | 1.12E+02 | 4.13E+01 | 0.61 | 22.82 | -2.91E+00 |
| 33 | 28-Jul 20:00 | 28-Jul 21:00 | 32.5 | 3.35E+01 | -5.18E+01 | 0.51 | 21.94 | -2.59E+01 |
| 34 | 28-Jul 21:00 | 28-Jul 22:00 | 33.5 | -1.00E+00 | -6.36E+01 | 0.09 | 19.48 | -5.55E+01 |
| 35 | 28-Jul 22:00 | 28-Jul 23:00 | 34.5 | -1.00E+00 | -5.91E+01 | 0.14 | 17.98 | -5.60E+01 |
| 36 | 28-Jul 23:00 | 29-Jul 00:00 | 35.5 | -1.00E+00 | -6.08E+01 | 0.43 | 16.88 | -5.50E+01 |
| 37 | 29-Jul 00:00 | 29-Jul 01:00 | 36.5 | -5.00E-01 | -6.20E+01 | 0.45 | 16.10 | -5.35E+01 |
| 38 | 29-Jul 01:00 | 29-Jul 02:00 | 37.5 | -1.00E+00 | -5.73E+01 | 0.24 | 15.31 | -5.52E+01 |
| 39 | 29-Jul 02:00 | 29-Jul 03:00 | 38.5 | -1.00E+00 | -5.85E+01 | 0.16 | 14.53 | -5.69E+01 |
| 40 | 29-Jul 03:00 | 29-Jul 04:00 | 39.5 | -1.00E+00 | -5.91E+01 | 0.21 | 13.77 | -5.88E+01 |
| 41 | 29-Jul 04:00 | 29-Jul 05:00 | 40.5 | -1.00E+00 | -5.87E+01 | 0.15 | 13.14 | -5.87E+01 |
| 42 | 29-Jul 05:00 | 29-Jul 06:00 | 41.5 | 0.00E+00 | -5.68E+01 | 0.21 | 12.57 | -5.80E+01 |
| 43 | 29-Jul 06:00 | 29-Jul 07:00 | 42.5 | 3.08E+01 | -2.97E+01 | 0.15 | 12.31 | -5.07E+01 |
| 44 | 29-Jul 07:00 | 29-Jul 08:00 | 43.5 | 1.38E+02 | 5.69E+01 | 0.18 | 13.06 | -2.40E+01 |
| 45 | 29-Jul 08:00 | 29-Jul 09:00 | 44.5 | 3.05E+02 | 2.02E+02 | 0.65 | 14.57 | 3.97E+00 |
| 46 | 29-Jul 09:00 | 29-Jul 10:00 | 45.5 | 4.64E+02 | 3.43E+02 | 1.20 | 16.30 | 2.62E+01 |
| 47 | 29-Jul 10:00 | 29-Jul 11:00 | 46.5 | 5.88E+02 | 4.67E+02 | 1.25 | 19.07 | 8.69E+01 |
| 48 | 29-Jul 11:00 | 29-Jul 12:00 | 47.5 | 6.77E+02 | 5.50E+02 | 1.60 | 23.06 | 1.28E+02 |
| 49 | 29-Jul 12:00 | 29-Jul 13:00 | 48.5 | 7.03E+02 | 5.72E+02 | 2.00 | 25.74 | 1.24E+02 |
| 50 | 29-Jul 13:00 | 29-Jul 14:00 | 49.5 | 6.40E+02 | 5.21E+02 | 2.47 | 25.16 | 5.64E+01 |

n.m.: not measured

Table A.1 Solar radiation, net solar radiation, soil temperature and soil heat flux (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Solar radiation (W/m$^2$) | Net solar radiation (W/m$^2$) | Wind speed (m/s) | Soil temperature (°C) | Soil heat flux (W/m$^2$) |
|---|---|---|---|---|---|---|---|---|
| 51 | 29-Jul 14:00 | 29-Jul 15:00 | 50.5 | 7.07E+02 | 5.73E+02 | 2.23 | 25.42 | 8.66E+01 |
| 52 | 29-Jul 15:00 | 29-Jul 16:00 | 51.5 | 5.38E+02 | 4.20E+02 | 2.31 | 25.22 | 5.47E+01 |
| 53 | 29-Jul 16:00 | 29-Jul 17:00 | 52.5 | 4.39E+02 | 3.33E+02 | 2.05 | 25.24 | 5.01E+01 |
| 54 | 29-Jul 17:00 | 29-Jul 18:00 | 53.5 | 2.40E+02 | 1.54E+02 | 1.27 | 25.29 | 3.56E+01 |
| 55 | 29-Jul 18:00 | 29-Jul 19:00 | 54.5 | 1.22E+02 | 6.96E+01 | 1.38 | 23.58 | -4.37E+00 |
| 56 | 29-Jul 19:00 | 29-Jul 20:00 | 55.5 | 4.03E+01 | 3.78E+00 | 0.38 | 22.42 | -1.00E+01 |
| 57 | 29-Jul 20:00 | 29-Jul 21:00 | 56.5 | 1.60E+01 | -1.68E+01 | 0.16 | 21.63 | -1.11E+01 |
| 58 | 29-Jul 21:00 | 29-Jul 22:00 | 57.5 | 0.00E+00 | -2.38E+01 | 0.33 | 20.74 | -1.82E+01 |
| 59 | 29-Jul 22:00 | 29-Jul 23:00 | 58.5 | 0.00E+00 | -2.57E+01 | 0.15 | 19.89 | -2.36E+01 |
| 60 | 29-Jul 23:00 | 30-Jul 00:00 | 59.5 | -5.00E-01 | -5.16E+01 | 0.09 | 18.84 | -3.72E+01 |
| 61 | 30-Jul 00:00 | 30-Jul 01:00 | 60.5 | 0.00E+00 | -5.09E+01 | 0.19 | 17.85 | -3.98E+01 |
| 62 | 30-Jul 01:00 | 30-Jul 02:00 | 61.5 | 0.00E+00 | -4.96E+01 | 0.19 | 16.92 | -4.45E+01 |
| 63 | 30-Jul 02:00 | 30-Jul 03:00 | 62.5 | -2.50E-01 | -4.76E+01 | 0.19 | 16.21 | -4.38E+01 |
| 64 | 30-Jul 03:00 | 30-Jul 04:00 | 63.5 | -5.00E-01 | -4.73E+01 | 0.17 | 15.61 | -4.45E+01 |
| 65 | 30-Jul 04:00 | 30-Jul 05:00 | 64.5 | -7.50E-01 | -4.78E+01 | 0.27 | 15.03 | -4.56E+01 |
| 66 | 30-Jul 05:00 | 30-Jul 06:00 | 65.5 | 5.00E-01 | -4.60E+01 | 0.25 | 14.60 | -4.37E+01 |
| 67 | 30-Jul 06:00 | 30-Jul 07:00 | 66.5 | 3.38E+01 | -1.13E+01 | 0.25 | 14.52 | -3.31E+01 |
| 68 | 30-Jul 07:00 | 30-Jul 08:00 | 67.5 | 1.02E+02 | 4.72E+01 | 0.27 | 15.53 | -4.22E+00 |
| 69 | 30-Jul 08:00 | 30-Jul 09:00 | 68.5 | 1.22E+02 | 7.31E+01 | 0.47 | 16.89 | 1.51E+01 |
| 70 | 30-Jul 09:00 | 30-Jul 10:00 | 69.5 | 1.06E+02 | 6.26E+01 | 0.70 | 17.66 | 1.52E+01 |
| 71 | 30-Jul 10:00 | 30-Jul 11:00 | 70.5 | 1.07E+02 | 6.67E+01 | 0.29 | 18.24 | 1.76E+01 |
| 72 | 30-Jul 11:00 | 30-Jul 12:00 | 71.5 | 7.45E+01 | 4.70E+01 | 0.79 | 18.23 | 7.28E+00 |
| 73 | 30-Jul 12:00 | 30-Jul 13:00 | 72.5 | 1.49E+02 | 1.05E+02 | 0.85 | 19.12 | 2.55E+01 |
| 74 | 30-Jul 13:00 | 30-Jul 14:00 | 73.5 | 2.41E+02 | 1.83E+02 | 0.65 | 20.76 | 4.88E+01 |
| 75 | 30-Jul 14:00 | 30-Jul 15:00 | 74.5 | 1.29E+02 | 9.60E+01 | 0.82 | 20.79 | 2.14E+01 |
| 76 | 30-Jul 15:00 | 30-Jul 16:00 | 75.5 | 2.13E+02 | 1.63E+02 | 0.70 | 21.15 | 3.37E+01 |
| 77 | 30-Jul 16:00 | 30-Jul 17:00 | 76.5 | 3.39E+02 | 2.63E+02 | 1.22 | 21.90 | 4.51E+01 |
| 78 | 30-Jul 17:00 | 30-Jul 18:00 | 77.5 | 3.37E+02 | 2.49E+02 | 0.96 | 23.64 | 5.99E+01 |
| 79 | 30-Jul 18:00 | 30-Jul 19:00 | 78.5 | 3.04E+02 | 1.86E+02 | 0.64 | 24.22 | 5.39E+01 |
| 80 | 30-Jul 19:00 | 30-Jul 20:00 | 79.5 | 1.47E+02 | 4.81E+01 | 0.55 | 23.55 | 1.91E+01 |
| 81 | 30-Jul 20:00 | 30-Jul 21:00 | 80.5 | 1.58E+01 | -3.27E+01 | 0.30 | 21.33 | -2.20E+01 |
| 82 | 30-Jul 21:00 | 30-Jul 22:00 | 81.5 | -7.50E-01 | -5.45E+01 | 0.11 | 19.40 | -4.14E+01 |
| 83 | 30-Jul 22:00 | 30-Jul 23:00 | 82.5 | -5.00E-01 | -5.14E+01 | 0.04 | 17.84 | -4.81E+01 |
| 84 | 30-Jul 23:00 | 31-Jul 00:00 | 83.5 | 0.00E+00 | -4.91E+01 | 0.16 | 16.81 | -4.73E+01 |
| 85 | 31-Jul 00:00 | 31-Jul 01:00 | 84.5 | 0.00E+00 | -4.88E+01 | 0.18 | 16.12 | -4.45E+01 |
| 86 | 31-Jul 01:00 | 31-Jul 02:00 | 85.5 | -7.50E-01 | -4.73E+01 | 0.10 | 15.46 | -4.50E+01 |
| 87 | 31-Jul 02:00 | 31-Jul 03:00 | 86.5 | -1.00E+00 | -5.04E+01 | 0.22 | 14.94 | -4.43E+01 |
| 88 | 31-Jul 03:00 | 31-Jul 04:00 | 87.5 | 0.00E+00 | -3.86E+01 | 0.19 | 14.51 | -4.13E+01 |
| 89 | 31-Jul 04:00 | 31-Jul 05:00 | 88.5 | 0.00E+00 | -2.66E+01 | 0.25 | 14.62 | -2.84E+01 |
| 90 | 31-Jul 05:00 | 31-Jul 06:00 | 89.5 | 2.50E-01 | -3.41E+01 | 0.32 | 14.39 | -3.36E+01 |
| 91 | 31-Jul 06:00 | 31-Jul 07:00 | 90.5 | 1.85E+01 | -2.12E+01 | 0.25 | 14.26 | -3.11E+01 |
| 92 | 31-Jul 07:00 | 31-Jul 08:00 | 91.5 | 8.45E+01 | 5.81E+01 | 0.38 | 15.03 | -4.53E+00 |
| 93 | 31-Jul 08:00 | 31-Jul 09:00 | 92.5 | 1.99E+02 | 1.37E+02 | 1.02 | 16.55 | 1.94E+01 |
| 94 | 31-Jul 09:00 | 31-Jul 10:00 | 93.5 | 3.08E+02 | 2.45E+02 | 1.44 | 18.44 | 4.61E+01 |
| 95 | 31-Jul 10:00 | 31-Jul 11:00 | 94.5 | 5.38E+02 | 4.34E+02 | 1.67 | 20.68 | 7.97E+01 |
| 96 | 31-Jul 11:00 | 31-Jul 12:00 | 95.5 | 6.58E+02 | 5.42E+02 | 1.71 | 24.58 | 1.40E+02 |
| 97 | 31-Jul 12:00 | 31-Jul 13:00 | 96.5 | 6.63E+02 | 5.52E+02 | 1.95 | 27.04 | 1.40E+02 |
| 98 | 31-Jul 13:00 | 31-Jul 14:00 | 97.5 | 7.00E+02 | 5.71E+02 | 1.81 | 26.95 | 9.04E+01 |
| 99 | 31-Jul 14:00 | 31-Jul 15:00 | 98.5 | 6.65E+02 | 5.40E+02 | 1.59 | 27.13 | 7.58E+01 |
| 100 | 31-Jul 15:00 | 31-Jul 16:00 | 99.5 | 6.41E+02 | 5.05E+02 | 1.81 | 27.30 | 8.29E+01 |

Table A.1 Solar radiation, net solar radiation, soil temperature and soil heat flux (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Solar radiation ($W/m^2$) | Net solar radiation ($W/m^2$) | Wind speed (m/s) | Soil temperature (°C) | Soil heat flux ($W/m^2$) |
|---|---|---|---|---|---|---|---|---|
| 101 | 31-Jul 16:00 | 31-Jul 17:00 | 100.5 | 4.69E+02 | 3.49E+02 | 1.67 | 27.64 | 5.67E+01 |
| 102 | 31-Jul 17:00 | 31-Jul 18:00 | 101.5 | 2.75E+02 | 1.81E+02 | 1.13 | 26.87 | 3.35E+01 |
| 103 | 31-Jul 18:00 | 31-Jul 19:00 | 102.5 | 2.02E+02 | 1.06E+02 | 0.77 | 25.82 | 1.68E+01 |
| 104 | 31-Jul 19:00 | 31-Jul 20:00 | 103.5 | 8.95E+01 | 6.20E+00 | 0.38 | 24.60 | -1.40E+00 |
| 105 | 31-Jul 20:00 | 31-Jul 21:00 | 104.5 | 1.85E+01 | -4.83E+01 | 0.15 | 22.70 | -2.89E+01 |
| 106 | 31-Jul 21:00 | 31-Jul 22:00 | 105.5 | -7.50E-01 | -6.01E+01 | 0.20 | 20.65 | -4.67E+01 |
| 107 | 31-Jul 22:00 | 31-Jul 23:00 | 106.5 | 0.00E+00 | -5.40E+01 | 0.23 | 19.28 | -4.75E+01 |
| 108 | 31-Jul 23:00 | 1-Aug 00:00 | 107.5 | 0.00E+00 | -4.88E+01 | 0.26 | 18.24 | -4.69E+01 |
| 109 | 1-Aug 00:00 | 1-Aug 01:00 | 108.5 | -2.50E-01 | -4.76E+01 | 0.17 | 17.49 | -4.51E+01 |
| 110 | 1-Aug 01:00 | 1-Aug 02:00 | 109.5 | 0.00E+00 | -4.57E+01 | 0.20 | 16.83 | -4.38E+01 |
| 111 | 1-Aug 02:00 | 1-Aug 03:00 | 110.5 | -2.50E-01 | -4.74E+01 | 0.26 | 16.22 | -4.45E+01 |
| 112 | 1-Aug 03:00 | 1-Aug 04:00 | 111.5 | -2.50E-01 | -4.48E+01 | 0.23 | 15.69 | -4.41E+01 |
| 113 | 1-Aug 04:00 | 1-Aug 05:00 | 112.5 | 0.00E+00 | -3.68E+01 | 0.20 | 15.35 | -3.96E+01 |
| 114 | 1-Aug 05:00 | 1-Aug 06:00 | 113.5 | 2.50E-01 | -1.79E+01 | 0.11 | 15.61 | -2.40E+01 |
| 115 | 1-Aug 06:00 | 1-Aug 07:00 | 114.5 | 2.15E+01 | -1.01E+01 | 0.14 | 15.94 | -1.72E+01 |
| 116 | 1-Aug 07:00 | 1-Aug 08:00 | 115.5 | 1.19E+02 | 4.83E+01 | 0.87 | 16.51 | -3.88E+00 |
| 117 | 1-Aug 08:00 | 1-Aug 09:00 | 116.5 | 2.63E+02 | 1.73E+02 | 1.64 | 18.10 | 2.53E+01 |
| 118 | 1-Aug 09:00 | 1-Aug 10:00 | 117.5 | 4.27E+02 | 3.12E+02 | 1.77 | 19.39 | 3.42E+01 |
| 119 | 1-Aug 10:00 | 1-Aug 11:00 | 118.5 | 5.58E+02 | 4.41E+02 | 1.57 | 22.20 | 8.99E+01 |
| 120 | 1-Aug 11:00 | 1-Aug 12:00 | 119.5 | 4.74E+02 | 3.70E+02 | 1.27 | 24.60 | 9.03E+01 |
| 121 | 1-Aug 12:00 | 1-Aug 13:00 | 120.5 | 7.96E+02 | 6.58E+02 | 1.94 | 27.40 | 1.41E+02 |
| 122 | 1-Aug 13:00 | 1-Aug 14:00 | 121.5 | 2.69E+02 | 2.06E+02 | 1.76 | 26.02 | 2.22E+01 |
| 123 | 1-Aug 14:00 | 1-Aug 15:00 | 122.5 | 1.04E+02 | 6.67E+01 | 0.67 | 23.13 | -8.34E+00 |
| 124 | 1-Aug 15:00 | 1-Aug 16:00 | 123.5 | 7.70E+01 | 4.35E+01 | 0.42 | 22.25 | -1.89E+00 |
| 125 | 1-Aug 16:00 | 1-Aug 17:00 | 124.5 | 2.37E+02 | 1.78E+02 | 1.08 | 23.21 | 3.91E+01 |
| 126 | 1-Aug 17:00 | 1-Aug 18:00 | 125.5 | 2.24E+02 | 1.61E+02 | 0.70 | 24.59 | 4.27E+01 |
| 127 | 1-Aug 18:00 | 1-Aug 19:00 | 126.5 | 1.12E+02 | 7.30E+01 | 1.07 | 24.05 | 1.75E+01 |
| 128 | 1-Aug 19:00 | 1-Aug 20:00 | 127.5 | 8.33E+01 | 3.39E+01 | 0.43 | 23.29 | 8.45E+00 |
| 129 | 1-Aug 20:00 | 1-Aug 21:00 | 128.5 | 7.25E+00 | -2.38E+01 | 0.32 | 22.01 | -1.44E+01 |
| 130 | 1-Aug 21:00 | 1-Aug 22:00 | 129.5 | 0.00E+00 | -3.62E+01 | 0.16 | 20.76 | -2.63E+01 |
| 131 | 1-Aug 22:00 | 1-Aug 23:00 | 130.5 | 0.00E+00 | -1.64E+01 | 0.52 | 20.10 | -2.02E+01 |
| 132 | 1-Aug 23:00 | 2-Aug 00:00 | 131.5 | 0.00E+00 | -1.33E+01 | 1.44 | 19.87 | -1.51E+01 |
| 133 | 2-Aug 00:00 | 2-Aug 01:00 | 132.5 | 0.00E+00 | -1.87E+01 | 1.55 | 19.38 | -2.10E+01 |
| 134 | 2-Aug 01:00 | 2-Aug 02:00 | 133.5 | 0.00E+00 | -8.13E+00 | 2.50 | 18.81 | -2.50E+01 |
| 135 | 2-Aug 02:00 | 2-Aug 03:00 | 134.5 | 0.00E+00 | -1.07E+01 | 1.66 | 18.01 | -3.11E+01 |
| 136 | 2-Aug 03:00 | 2-Aug 04:00 | 135.5 | 0.00E+00 | -9.93E+00 | 1.58 | 17.57 | -2.92E+01 |
| 137 | 2-Aug 04:00 | 2-Aug 05:00 | 136.5 | 0.00E+00 | -1.12E+01 | 1.52 | 17.17 | -2.94E+01 |
| 138 | 2-Aug 05:00 | 2-Aug 06:00 | 137.5 | 0.00E+00 | -1.10E+01 | 1.29 | 16.52 | -3.50E+01 |
| 139 | 2-Aug 06:00 | 2-Aug 07:00 | 138.5 | 5.00E+00 | -5.33E+00 | 1.05 | 16.14 | -3.13E+01 |
| 140 | 2-Aug 07:00 | 2-Aug 08:00 | 139.5 | 3.80E+01 | 2.15E+01 | 0.94 | 16.23 | -2.13E+01 |
| 141 | 2-Aug 08:00 | 2-Aug 09:00 | 140.5 | 4.56E+01 | 2.83E+01 | 1.10 | 16.29 | -1.95E+01 |
| 142 | 2-Aug 09:00 | 2-Aug 10:00 | 141.5 | 1.40E+02 | 1.10E+02 | 1.19 | 16.70 | -4.56E+00 |
| 143 | 2-Aug 10:00 | 2-Aug 11:00 | 142.5 | 1.97E+02 | 1.52E+02 | 1.07 | 17.48 | 8.65E+00 |
| 144 | 2-Aug 11:00 | 2-Aug 12:00 | 143.5 | 3.44E+02 | 2.77E+02 | 1.23 | 19.00 | 3.83E+01 |
| 145 | 2-Aug 12:00 | 2-Aug 13:00 | 144.5 | 3.88E+02 | 3.11E+02 | 0.80 | 20.99 | 5.80E+01 |
| 146 | 2-Aug 13:00 | 2-Aug 14:00 | 145.5 | 7.80E+02 | 6.50E+02 | 1.43 | 23.53 | 1.16E+02 |
| 147 | 2-Aug 14:00 | 2-Aug 15:00 | 146.5 | 6.64E+02 | 5.41E+02 | 1.56 | 24.59 | 8.86E+01 |
| 148 | 2-Aug 15:00 | 2-Aug 16:00 | 147.5 | 6.12E+02 | 4.87E+02 | 1.23 | 25.59 | 8.71E+01 |
| 149 | 2-Aug 16:00 | 2-Aug 17:00 | 148.5 | 4.35E+02 | 3.36E+02 | 1.17 | 26.18 | 5.85E+01 |
| 150 | 2-Aug 17:00 | 2-Aug 18:00 | 149.5 | 3.45E+02 | 2.27E+02 | 1.33 | 26.76 | 5.36E+01 |

Table A.1 Solar radiation, net solar radiation, soil temperature and soil heat flux (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Solar radiation ($W/m^2$) | Net solar radiation ($W/m^2$) | Wind speed (m/s) | Soil temperature (°C) | Soil heat flux ($W/m^2$) |
|---|---|---|---|---|---|---|---|---|
| 151 | 2-Aug 18:00 | 2-Aug 19:00 | 150.5 | 2.41E+02 | 1.27E+02 | 1.10 | 26.19 | 1.65E+01 |
| 152 | 2-Aug 19:00 | 2-Aug 20:00 | 151.5 | 8.73E+01 | 2.61E+01 | 0.34 | 23.45 | -2.20E+01 |
| 153 | 2-Aug 20:00 | 2-Aug 21:00 | 152.5 | 1.53E+01 | -3.44E+01 | 0.12 | 21.53 | -3.81E+01 |
| 154 | 2-Aug 21:00 | 2-Aug 22:00 | 153.5 | -1.00E+00 | -5.13E+01 | 0.12 | 19.48 | -5.38E+01 |
| 155 | 2-Aug 22:00 | 2-Aug 23:00 | 154.5 | -7.50E-01 | -5.76E+01 | 0.06 | 18.03 | -5.71E+01 |
| 156 | 2-Aug 23:00 | 3-Aug 00:00 | 155.5 | 0.00E+00 | -4.62E+01 | 0.08 | 16.83 | -5.65E+01 |
| 157 | 3-Aug 00:00 | 3-Aug 01:00 | 156.5 | 0.00E+00 | -2.88E+01 | 0.07 | 16.55 | -3.88E+01 |
| 158 | 3-Aug 01:00 | 3-Aug 02:00 | 157.5 | -1.00E+00 | -5.21E+01 | 0.09 | 16.03 | -4.68E+01 |
| 159 | 3-Aug 02:00 | 3-Aug 03:00 | 158.5 | 0.00E+00 | -2.52E+01 | 0.15 | 15.61 | -3.79E+01 |
| 160 | 3-Aug 03:00 | 3-Aug 04:00 | 159.5 | 0.00E+00 | -3.44E+01 | 0.20 | 15.61 | -3.31E+01 |
| 161 | 3-Aug 04:00 | 3-Aug 05:00 | 160.5 | 0.00E+00 | -3.92E+01 | 0.27 | 15.20 | -3.78E+01 |
| 162 | 3-Aug 05:00 | 3-Aug 06:00 | 161.5 | 2.50E-01 | -2.74E+01 | 0.16 | 15.04 | -3.22E+01 |
| 163 | 3-Aug 06:00 | 3-Aug 07:00 | 162.5 | 1.75E+01 | -4.34E-01 | 0.23 | 15.31 | -2.06E+01 |
| 164 | 3-Aug 07:00 | 3-Aug 08:00 | 163.5 | 6.50E+01 | 5.05E+01 | 0.32 | 16.08 | -2.14E+00 |
| 165 | 3-Aug 08:00 | 3-Aug 09:00 | 164.5 | 1.61E+02 | 1.30E+02 | 1.21 | 17.34 | 1.99E+01 |
| 166 | 3-Aug 09:00 | 3-Aug 10:00 | 165.5 | 3.24E+02 | 2.66E+02 | 1.01 | 19.11 | 4.10E+01 |
| 167 | 3-Aug 10:00 | 3-Aug 11:00 | 166.5 | 4.52E+02 | 3.59E+02 | 1.07 | 20.96 | 6.16E+01 |
| 168 | 3-Aug 11:00 | 3-Aug 12:00 | 167.5 | 4.97E+02 | 4.09E+02 | 1.32 | 24.23 | 1.05E+02 |
| 169 | 3-Aug 12:00 | 3-Aug 13:00 | 168.5 | 6.99E+02 | 5.68E+02 | 1.30 | 25.60 | 1.36E+02 |
| 170 | 3-Aug 13:00 | 3-Aug 14:00 | 169.5 | 5.33E+02 | 4.32E+02 | 1.44 | 24.91 | 6.16E+01 |
| 171 | 3-Aug 14:00 | 3-Aug 15:00 | 170.5 | 8.14E+02 | 6.65E+02 | 1.61 | 24.96 | 7.21E+01 |
| 172 | 3-Aug 15:00 | 3-Aug 16:00 | 171.5 | 6.54E+02 | 5.13E+02 | 1.65 | 26.10 | 8.93E+01 |
| 173 | 3-Aug 16:00 | 3-Aug 17:00 | 172.5 | 6.07E+02 | 4.59E+02 | 1.73 | 27.70 | 7.98E+01 |
| 174 | 3-Aug 17:00 | 3-Aug 18:00 | 173.5 | 4.40E+02 | 3.00E+02 | 1.57 | 27.88 | 6.34E+01 |
| 175 | 3-Aug 18:00 | 3-Aug 19:00 | 174.5 | 2.81E+02 | 1.55E+02 | 1.16 | 26.78 | 8.53E+00 |
| 176 | 3-Aug 19:00 | 3-Aug 20:00 | 175.5 | 1.34E+02 | 1.45E+01 | 0.64 | 24.80 | -1.22E+01 |
| 177 | 3-Aug 20:00 | 3-Aug 21:00 | 176.5 | 1.30E+01 | -6.72E+01 | 0.30 | 21.96 | -7.83E+01 |
| 178 | 3-Aug 21:00 | 3-Aug 22:00 | 177.5 | -1.00E+00 | -6.67E+01 | 0.22 | 19.54 | -8.91E+01 |
| 179 | 3-Aug 22:00 | 3-Aug 23:00 | 178.5 | -5.00E-01 | -5.21E+01 | 0.05 | 18.03 | -6.27E+01 |
| 180 | 3-Aug 23:00 | 4-Aug 00:00 | 179.5 | 0.00E+00 | -3.44E+01 | 0.04 | 17.47 | -4.63E+01 |
| 181 | 4-Aug 00:00 | 4-Aug 01:00 | 180.5 | 0.00E+00 | -3.57E+01 | 0.06 | 16.95 | -4.37E+01 |
| 182 | 4-Aug 01:00 | 4-Aug 02:00 | 181.5 | 0.00E+00 | -2.71E+01 | 0.44 | 16.71 | -3.61E+01 |
| 183 | 4-Aug 02:00 | 4-Aug 03:00 | 182.5 | 0.00E+00 | -1.51E+01 | 0.48 | 16.94 | -2.34E+01 |
| 184 | 4-Aug 03:00 | 4-Aug 04:00 | 183.5 | 0.00E+00 | -1.41E+01 | 0.95 | 17.15 | -1.76E+01 |
| 185 | 4-Aug 04:00 | 4-Aug 05:00 | 184.5 | 0.00E+00 | -1.63E+01 | 0.28 | 17.16 | -1.78E+01 |
| 186 | 4-Aug 05:00 | 4-Aug 06:00 | 185.5 | 0.00E+00 | -1.14E+01 | 0.33 | 17.13 | -2.09E+01 |
| 187 | 4-Aug 06:00 | 4-Aug 07:00 | 186.5 | 3.25E+00 | -9.49E+00 | 0.74 | 17.07 | -1.58E+01 |
| 188 | 4-Aug 07:00 | 4-Aug 08:00 | 187.5 | 1.98E+01 | 6.51E+00 | 1.21 | 17.25 | -8.58E+00 |
| 189 | 4-Aug 08:00 | 4-Aug 09:00 | 188.5 | 2.58E+01 | 1.26E+01 | 1.11 | 17.60 | -2.83E+00 |
| 190 | 4-Aug 09:00 | 4-Aug 10:00 | 189.5 | 8.68E+01 | 5.87E+01 | 1.59 | 18.09 | 7.63E+00 |
| 191 | 4-Aug 10:00 | 4-Aug 11:00 | 190.5 | 1.05E+02 | 7.56E+01 | 1.47 | 19.02 | 1.87E+01 |
| 192 | 4-Aug 11:00 | 4-Aug 12:00 | 191.5 | 1.63E+02 | 1.23E+02 | 1.40 | 19.86 | 2.94E+01 |
| 193 | 4-Aug 12:00 | 4-Aug 13:00 | 192.5 | 9.33E+01 | 6.99E+01 | 1.15 | 20.37 | 2.14E+01 |
| 194 | 4-Aug 13:00 | 4-Aug 14:00 | 193.5 | 8.33E+01 | 6.45E+01 | 0.84 | 20.35 | 1.35E+01 |
| 195 | 4-Aug 14:00 | 4-Aug 15:00 | 194.5 | 9.65E+01 | 7.13E+01 | 0.74 | 20.03 | 6.86E+00 |
| 196 | 4-Aug 15:00 | 4-Aug 16:00 | 195.5 | 9.60E+01 | 7.08E+01 | 1.25 | 20.25 | 1.19E+01 |
| 197 | 4-Aug 16:00 | 4-Aug 17:00 | 196.5 | 1.22E+02 | 9.26E+01 | 2.90 | 19.99 | -3.48E+00 |
| 198 | 4-Aug 17:00 | 4-Aug 18:00 | 197.5 | 6.70E+01 | 4.70E+01 | 2.66 | 18.57 | -3.36E+01 |
| 199 | 4-Aug 18:00 | 4-Aug 19:00 | 198.5 | 4.53E+01 | 2.75E+01 | 2.29 | 17.32 | -4.01E+01 |
| 200 | 4-Aug 19:00 | 4-Aug 20:00 | 199.5 | 2.48E+01 | 8.81E+00 | 2.43 | 16.14 | -4.68E+01 |

Table A.1 Solar radiation, net solar radiation, soil temperature and soil heat flux (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Solar radiation ($W/m^2$) | Net solar radiation ($W/m^2$) | Wind speed (m/s) | Soil temperature (°C) | Soil heat flux ($W/m^2$) |
|---|---|---|---|---|---|---|---|---|
| 201 | 4-Aug 20:00 | 4-Aug 21:00 | 200.5 | 1.75E+00 | -9.93E+00 | 2.40 | 15.00 | -5.37E+01 |
| 202 | 4-Aug 21:00 | 4-Aug 22:00 | 201.5 | 0.00E+00 | -1.33E+01 | 2.44 | 13.99 | -5.71E+01 |
| 203 | 4-Aug 22:00 | 4-Aug 23:00 | 202.5 | 0.00E+00 | -1.24E+01 | 2.44 | 13.30 | -5.48E+01 |
| 204 | 4-Aug 23:00 | 5-Aug 00:00 | 203.5 | 0.00E+00 | -1.15E+01 | 1.94 | 12.73 | -5.24E+01 |
| 205 | 5-Aug 00:00 | 5-Aug 01:00 | 204.5 | 0.00E+00 | -9.80E+00 | 1.65 | 12.49 | -4.65E+01 |
| 206 | 5-Aug 01:00 | 5-Aug 02:00 | 205.5 | 0.00E+00 | -1.17E+01 | 1.25 | 12.40 | -4.20E+01 |
| 207 | 5-Aug 02:00 | 5-Aug 03:00 | 206.5 | 0.00E+00 | -1.51E+01 | 1.49 | 12.21 | -4.16E+01 |
| 208 | 5-Aug 03:00 | 5-Aug 04:00 | 207.5 | -1.00E+00 | -7.23E+01 | 1.57 | 11.64 | -5.23E+01 |
| 209 | 5-Aug 04:00 | 5-Aug 05:00 | 208.5 | -1.00E+00 | -8.48E+01 | 1.09 | 10.80 | -5.85E+01 |
| 210 | 5-Aug 05:00 | 5-Aug 06:00 | 209.5 | -7.50E-01 | -8.13E+01 | 0.40 | 10.20 | -6.02E+01 |
| 211 | 5-Aug 06:00 | 5-Aug 07:00 | 210.5 | 1.90E+01 | -6.23E+01 | 1.42 | 9.78 | -5.57E+01 |
| 212 | 5-Aug 07:00 | 5-Aug 08:00 | 211.5 | 1.23E+02 | 2.69E+01 | 1.60 | 10.08 | -3.92E+01 |
| 213 | 5-Aug 08:00 | 5-Aug 09:00 | 212.5 | 3.32E+02 | 2.09E+02 | 1.76 | 10.75 | -2.56E+01 |
| 214 | 5-Aug 09:00 | 5-Aug 10:00 | 213.5 | 5.22E+02 | 3.88E+02 | 2.37 | 11.46 | -1.56E+01 |
| 215 | 5-Aug 10:00 | 5-Aug 11:00 | 214.5 | 5.91E+02 | 4.65E+02 | 2.30 | 13.55 | 4.10E+01 |
| 216 | 5-Aug 11:00 | 5-Aug 12:00 | 215.5 | 7.45E+02 | 6.15E+02 | 3.11 | 17.74 | 9.87E+01 |
| 217 | 5-Aug 12:00 | 5-Aug 13:00 | 216.5 | 6.77E+02 | 5.46E+02 | 2.91 | 20.67 | 1.07E+02 |
| 218 | 5-Aug 13:00 | 5-Aug 14:00 | 217.5 | 7.25E+02 | 5.84E+02 | 2.73 | 20.27 | 7.03E+01 |
| 219 | 5-Aug 14:00 | 5-Aug 15:00 | 218.5 | 6.12E+02 | 4.92E+02 | 2.72 | 18.88 | 1.64E+01 |
| 220 | 5-Aug 15:00 | 5-Aug 16:00 | 219.5 | 4.02E+02 | 2.99E+02 | 2.51 | 19.19 | 1.95E+01 |
| 221 | 5-Aug 16:00 | 5-Aug 17:00 | 220.5 | 3.40E+02 | 2.44E+02 | 1.87 | 19.00 | 1.98E+01 |
| 222 | 5-Aug 17:00 | 5-Aug 18:00 | 221.5 | 3.70E+02 | 2.45E+02 | 1.45 | 20.88 | 6.19E+01 |
| 223 | 5-Aug 18:00 | 5-Aug 19:00 | 222.5 | 3.02E+02 | 1.72E+02 | 1.99 | 20.10 | 5.34E+00 |
| 224 | 5-Aug 19:00 | 5-Aug 20:00 | 223.5 | 1.31E+02 | -9.91E+02 | 0.82 | 18.78 | -1.27E+01 |
| 225 | 5-Aug 20:00 | 5-Aug 21:00 | 224.5 | 1.70E+01 | -7.57E+01 | 0.24 | 16.56 | -5.05E+01 |
| 226 | 5-Aug 21:00 | 5-Aug 22:00 | 225.5 | -1.00E+00 | -7.53E+01 | 0.21 | 14.24 | -6.85E+01 |
| 227 | 5-Aug 22:00 | 5-Aug 23:00 | 226.5 | -1.00E+00 | -7.18E+01 | 0.29 | 12.75 | -6.96E+01 |
| 228 | 5-Aug 23:00 | 6-Aug 00:00 | 227.5 | -1.00E+00 | -6.91E+01 | 0.19 | 11.70 | -6.73E+01 |
| 229 | 6-Aug 00:00 | 6-Aug 01:00 | 228.5 | -1.00E+00 | -6.71E+01 | 0.31 | 10.89 | -6.56E+01 |
| 230 | 6-Aug 01:00 | 6-Aug 02:00 | 229.5 | -1.00E+00 | -6.54E+01 | 0.44 | 10.33 | -6.18E+01 |
| 231 | 6-Aug 02:00 | 6-Aug 03:00 | 230.5 | -1.00E+00 | -6.27E+01 | 0.34 | 9.85 | -6.06E+01 |
| 232 | 6-Aug 03:00 | 6-Aug 04:00 | 231.5 | -1.00E+00 | -5.57E+01 | 0.25 | 9.48 | -5.72E+01 |
| 233 | 6-Aug 04:00 | 6-Aug 05:00 | 232.5 | -5.00E-01 | -4.64E+01 | 0.12 | 9.15 | -5.53E+01 |
| 234 | 6-Aug 05:00 | 6-Aug 06:00 | 233.5 | -7.50E-01 | -5.28E+01 | 0.16 | 9.05 | -5.17E+01 |
| 235 | 6-Aug 06:00 | 6-Aug 07:00 | 234.5 | 1.55E+01 | -2.98E+01 | 0.13 | 9.20 | -4.09E+01 |
| 236 | 6-Aug 07:00 | 6-Aug 08:00 | 235.5 | 8.68E+01 | 4.72E+01 | 0.21 | 9.77 | -2.46E+01 |
| 237 | 6-Aug 08:00 | 6-Aug 09:00 | 236.5 | 2.35E+02 | 1.72E+02 | 0.80 | 11.52 | 7.71E+00 |
| 238 | 6-Aug 09:00 | 6-Aug 10:00 | 237.5 | 4.37E+02 | 3.27E+02 | 1.38 | 12.79 | 1.53E+01 |
| 239 | 6-Aug 10:00 | 6-Aug 11:00 | 238.5 | 6.08E+02 | 4.84E+02 | 1.32 | 15.22 | 5.98E+01 |
| 240 | 6-Aug 11:00 | 6-Aug 12:00 | 239.5 | 7.29E+02 | 5.85E+02 | 1.63 | 21.14 | 1.63E+02 |
| 241 | 6-Aug 12:00 | 6-Aug 13:00 | 240.5 | 7.64E+02 | 6.25E+02 | 1.83 | 25.20 | 1.89E+02 |
| 242 | 6-Aug 13:00 | 6-Aug 14:00 | 241.5 | 6.37E+02 | 5.12E+02 | 1.46 | 24.48 | 9.16E+01 |
| 243 | 6-Aug 14:00 | 6-Aug 15:00 | 242.5 | 5.61E+02 | 4.40E+02 | 1.66 | 23.66 | 5.00E+01 |
| 244 | 6-Aug 15:00 | 6-Aug 16:00 | 243.5 | 6.98E+02 | 5.51E+02 | 1.44 | 24.47 | 6.57E+01 |
| 245 | 6-Aug 16:00 | 6-Aug 17:00 | 244.5 | 3.23E+02 | 2.34E+02 | 0.86 | 24.04 | 3.75E+01 |
| 246 | 6-Aug 17:00 | 6-Aug 18:00 | 245.5 | 3.11E+02 | 2.02E+02 | 0.88 | 24.19 | 4.77E+01 |
| 247 | 6-Aug 18:00 | 6-Aug 19:00 | 246.5 | 1.94E+02 | 9.15E+01 | 0.45 | 22.46 | 7.73E+00 |
| 248 | 6-Aug 19:00 | 6-Aug 20:00 | 247.5 | 6.85E+01 | -2.32E+01 | 0.24 | 21.21 | -1.69E+01 |
| 249 | 6-Aug 20:00 | 6-Aug 21:00 | 248.5 | 1.10E+01 | -6.63E+01 | 0.10 | 18.93 | -4.53E+01 |
| 250 | 6-Aug 21:00 | 6-Aug 22:00 | 249.5 | -1.00E+00 | -6.63E+01 | 0.06 | 16.70 | -6.05E+01 |

Table A.1 Solar radiation, net solar radiation, soil temperature and soil heat flux (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Solar radiation ($W/m^2$) | Net solar radiation ($W/m^2$) | Wind speed (m/s) | Soil temperature (°C) | Soil heat flux ($W/m^2$) |
|---|---|---|---|---|---|---|---|---|
| 251 | 6-Aug 22:00 | 6-Aug 23:00 | 250.5 | 0.00E+00 | -4.50E+01 | 0.14 | 15.49 | -5.38E+01 |
| 252 | 6-Aug 23:00 | 7-Aug 00:00 | 251.5 | -1.00E+00 | -5.37E+01 | 0.29 | 14.84 | -4.88E+01 |
| 253 | 7-Aug 00:00 | 7-Aug 01:00 | 252.5 | -1.00E+00 | -6.00E+01 | 0.28 | 13.92 | -5.40E+01 |
| 254 | 7-Aug 01:00 | 7-Aug 02:00 | 253.5 | -1.00E+00 | -5.85E+01 | 0.27 | 13.10 | -5.49E+01 |
| 255 | 7-Aug 02:00 | 7-Aug 03:00 | 254.5 | -1.00E+00 | -5.65E+01 | 0.25 | 12.47 | -5.38E+01 |
| 256 | 7-Aug 03:00 | 7-Aug 04:00 | 255.5 | -1.00E+00 | -5.63E+01 | 0.16 | 11.90 | -5.43E+01 |
| 257 | 7-Aug 04:00 | 7-Aug 05:00 | 256.5 | -1.00E+00 | -5.14E+01 | 0.31 | 11.39 | -5.25E+01 |
| 258 | 7-Aug 05:00 | 7-Aug 06:00 | 257.5 | -2.50E-01 | -3.59E+01 | 0.41 | 11.09 | -4.78E+01 |
| 259 | 7-Aug 06:00 | 7-Aug 07:00 | 258.5 | 1.28E+01 | 2.17E+00 | 0.54 | 11.63 | -2.58E+01 |
| 260 | 7-Aug 07:00 | 7-Aug 08:00 | 259.5 | 6.63E+01 | 4.91E+01 | 0.44 | 12.47 | -9.91E+00 |
| 261 | 7-Aug 08:00 | 7-Aug 09:00 | 260.5 | 2.15E+02 | 1.75E+02 | 0.50 | 14.07 | 2.24E+01 |
| 262 | 7-Aug 09:00 | 7-Aug 10:00 | 261.5 | 4.10E+02 | 3.16E+02 | 1.32 | 15.73 | 3.14E+01 |
| 263 | 7-Aug 10:00 | 7-Aug 11:00 | 262.5 | 6.15E+02 | 4.83E+02 | 1.61 | 17.46 | 4.71E+01 |
| 264 | 7-Aug 11:00 | 7-Aug 12:00 | 263.5 | 6.59E+02 | 5.32E+02 | 1.55 | 22.82 | 1.44E+02 |
| 265 | 7-Aug 12:00 | 7-Aug 13:00 | 264.5 | 3.63E+02 | 2.83E+02 | 1.37 | 22.32 | 6.04E+01 |
| 266 | 7-Aug 13:00 | 7-Aug 14:00 | 265.5 | 8.42E+02 | 7.02E+02 | 1.63 | 23.89 | 1.29E+02 |
| 267 | 7-Aug 14:00 | 7-Aug 15:00 | 266.5 | 7.49E+02 | 6.19E+02 | 1.43 | 23.71 | 5.52E+01 |
| 268 | 7-Aug 15:00 | 7-Aug 16:00 | 267.5 | 5.29E+02 | 4.16E+02 | 1.60 | 24.14 | 5.41E+01 |
| 269 | 7-Aug 16:00 | 7-Aug 17:00 | 268.5 | 5.69E+02 | 4.49E+02 | 1.36 | 24.76 | 7.72E+01 |
| 270 | 7-Aug 17:00 | 7-Aug 18:00 | 269.5 | 3.40E+02 | 2.30E+02 | 0.99 | 25.38 | 5.94E+01 |
| 271 | 7-Aug 18:00 | 7-Aug 19:00 | 270.5 | 2.89E+02 | 1.64E+02 | 1.18 | 25.22 | 3.22E+01 |
| 272 | 7-Aug 19:00 | 7-Aug 20:00 | 271.5 | 1.25E+02 | 6.76E+00 | 0.44 | 23.44 | 8.57E-01 |
| 273 | 7-Aug 20:00 | 7-Aug 21:00 | 272.5 | 1.58E+01 | -6.63E+01 | 0.17 | 20.62 | -4.61E+01 |
| 274 | 7-Aug 21:00 | 7-Aug 22:00 | 273.5 | -1.00E+00 | -6.58E+01 | 0.02 | 17.97 | -6.49E+01 |
| 275 | 7-Aug 22:00 | 7-Aug 23:00 | 274.5 | -1.00E+00 | -6.24E+01 | 0.10 | 16.31 | -6.40E+01 |
| 276 | 7-Aug 23:00 | 8-Aug 00:00 | 275.5 | -1.00E+00 | -6.04E+01 | 0.10 | 15.10 | -6.23E+01 |
| 277 | 8-Aug 00:00 | 8-Aug 01:00 | 276.5 | -1.00E+00 | -5.96E+01 | 0.27 | 14.24 | -5.84E+01 |
| 278 | 8-Aug 01:00 | 8-Aug 02:00 | 277.5 | -1.00E+00 | -5.85E+01 | 0.32 | 13.49 | -5.75E+01 |
| 279 | 8-Aug 02:00 | 8-Aug 03:00 | 278.5 | -1.00E+00 | -5.70E+01 | 0.29 | 12.87 | -5.56E+01 |
| 280 | 8-Aug 03:00 | 8-Aug 04:00 | 279.5 | -1.00E+00 | -5.59E+01 | 0.25 | 12.34 | -5.45E+01 |
| 281 | 8-Aug 04:00 | 8-Aug 05:00 | 280.5 | -1.00E+00 | -5.45E+01 | 0.18 | 11.80 | -5.49E+01 |
| 282 | 8-Aug 05:00 | 8-Aug 06:00 | 281.5 | 0.00E+00 | -1.56E+01 | 0.20 | 11.61 | -4.38E+01 |
| 283 | 8-Aug 06:00 | 8-Aug 07:00 | 282.5 | 1.38E+01 | -5.89E+00 | 0.11 | 12.38 | -2.26E+01 |
| 284 | 8-Aug 07:00 | 8-Aug 08:00 | 283.5 | 8.38E+01 | 5.23E+01 | 0.59 | 13.23 | -4.18E+00 |
| 285 | 8-Aug 08:00 | 8-Aug 09:00 | 284.5 | 2.56E+02 | 1.80E+02 | 1.24 | 14.60 | 1.47E+01 |
| 286 | 8-Aug 09:00 | 8-Aug 10:00 | 285.5 | 4.71E+02 | 3.65E+02 | 1.82 | 15.32 | 1.41E+01 |
| 287 | 8-Aug 10:00 | 8-Aug 11:00 | 286.5 | 6.21E+02 | 4.96E+02 | 2.07 | 17.61 | 4.55E+01 |
| 288 | 8-Aug 11:00 | 8-Aug 12:00 | 287.5 | 7.33E+02 | 5.98E+02 | 2.20 | 22.71 | 1.55E+02 |
| 289 | 8-Aug 12:00 | 8-Aug 13:00 | 288.5 | 7.49E+02 | 6.12E+02 | 2.52 | 25.41 | 1.59E+02 |
| 290 | 8-Aug 13:00 | 8-Aug 14:00 | 289.5 | 7.72E+02 | 6.34E+02 | 2.02 | 25.54 | 1.07E+01 |
| 291 | 8-Aug 14:00 | 8-Aug 15:00 | 290.5 | 6.58E+02 | 5.32E+02 | 1.87 | 24.80 | 5.08E+01 |
| 292 | 8-Aug 15:00 | 8-Aug 16:00 | 291.5 | 5.24E+02 | 4.13E+02 | 1.53 | 25.37 | 6.77E+01 |
| 293 | 8-Aug 16:00 | 8-Aug 17:00 | 292.5 | 4.45E+02 | 3.28E+02 | 1.26 | 25.30 | 5.60E+01 |
| 294 | 8-Aug 17:00 | 8-Aug 18:00 | 293.5 | 2.89E+02 | 1.87E+02 | 0.93 | 25.22 | 3.62E+01 |
| 295 | 8-Aug 18:00 | 8-Aug 19:00 | 294.5 | 1.89E+02 | 9.85E+01 | 0.55 | 24.62 | 2.05E+01 |
| 296 | 8-Aug 19:00 | 8-Aug 20:00 | 295.5 | 6.20E+01 | -7.44E+00 | 0.36 | 23.09 | -9.57E+00 |
| 297 | 8-Aug 20:00 | 8-Aug 21:00 | 296.5 | 8.00E+00 | -2.80E+01 | 0.39 | 21.33 | -2.60E+01 |
| 298 | 8-Aug 21:00 | 8-Aug 22:00 | 297.5 | 0.00E+00 | -2.15E+01 | 0.69 | 20.34 | -2.16E+01 |
| 299 | 8-Aug 22:00 | 8-Aug 23:00 | 298.5 | 0.00E+00 | -2.12E+01 | 0.70 | 19.71 | -2.47E+01 |
| 300 | 8-Aug 23:00 | 9-Aug 00:00 | 299.5 | 0.00E+00 | -1.69E+01 | 0.45 | 19.21 | -9.01E+01 |

Table A.1 Solar radiation, net solar radiation, soil temperature and soil heat flux (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Solar radiation ($W/m^2$) | Net solar radiation ($W/m^2$) | Wind speed (m/s) | Soil temperature (°C) | Soil heat flux ($W/m^2$) |
|---|---|---|---|---|---|---|---|---|
| 301 | 9-Aug 00:00 | 9-Aug 01:00 | 300.5 | 0.00E+00 | -1.64E+01 | 0.71 | 18.87 | -2.53E+01 |
| 302 | 9-Aug 01:00 | 9-Aug 02:00 | 301.5 | 0.00E+00 | -1.68E+01 | 0.83 | 18.46 | -1.66E+01 |
| 303 | 9-Aug 02:00 | 9-Aug 03:00 | 302.5 | 0.00E+00 | -1.27E+01 | 0.73 | 18.18 | -1.57E+01 |
| 304 | 9-Aug 03:00 | 9-Aug 04:00 | 303.5 | 0.00E+00 | -1.51E+01 | 0.74 | 18.01 | -1.27E+01 |
| 305 | 9-Aug 04:00 | 9-Aug 05:00 | 304.5 | 0.00E+00 | -2.23E+01 | 0.46 | 17.77 | -1.52E+01 |
| 306 | 9-Aug 05:00 | 9-Aug 06:00 | 305.5 | 0.00E+00 | -1.92E+01 | 0.22 | 17.53 | -1.54E+01 |
| 307 | 9-Aug 06:00 | 9-Aug 07:00 | 306.5 | 8.50E+00 | -2.01E+01 | 0.23 | 17.23 | -1.86E+01 |
| 308 | 9-Aug 07:00 | 9-Aug 08:00 | 307.5 | 2.68E+01 | 1.32E+01 | 0.31 | 17.40 | -5.01E+00 |
| 309 | 9-Aug 08:00 | 9-Aug 09:00 | 308.5 | 1.01E+02 | 6.76E+01 | 0.85 | 18.05 | 9.58E+00 |
| 310 | 9-Aug 09:00 | 9-Aug 10:00 | 309.5 | 6.73E+01 | 5.08E+01 | 2.54 | 17.49 | -1.58E+01 |
| 311 | 9-Aug 10:00 | 9-Aug 11:00 | 310.5 | 2.65E+02 | 2.19E+02 | 2.96 | 17.69 | 3.38E+00 |
| 312 | 9-Aug 11:00 | 9-Aug 12:00 | 311.5 | 2.88E+02 | 2.36E+02 | 2.89 | 18.30 | 1.46E+01 |
| 313 | 9-Aug 12:00 | 9-Aug 13:00 | 312.5 | 1.89E+02 | 1.50E+02 | 2.74 | 17.72 | -9.61E+00 |
| 314 | 9-Aug 13:00 | 9-Aug 14:00 | 313.5 | 3.22E+02 | 2.64E+02 | 3.14 | 17.77 | 4.28E+00 |
| 315 | 9-Aug 14:00 | 9-Aug 15:00 | 314.5 | 4.26E+02 | 3.53E+02 | 3.36 | 18.20 | 1.50E+01 |
| 316 | 9-Aug 15:00 | 9-Aug 16:00 | 315.5 | 2.77E+02 | 2.22E+02 | 2.88 | 18.52 | 5.32E+00 |
| 317 | 9-Aug 16:00 | 9-Aug 17:00 | 316.5 | 2.11E+02 | 1.63E+02 | 2.56 | 17.66 | -1.37E+01 |
| 318 | 9-Aug 17:00 | 9-Aug 18:00 | 317.5 | 2.62E+02 | 1.90E+02 | 2.35 | 18.13 | 7.72E+00 |
| 319 | 9-Aug 18:00 | 9-Aug 19:00 | 318.5 | 1.01E+02 | 3.36E+01 | 1.34 | 16.94 | -2.68E+01 |
| 320 | 9-Aug 19:00 | 9-Aug 20:00 | 319.5 | 1.76E+02 | 5.35E+01 | 1.70 | 17.34 | -2.01E+00 |
| 321 | 9-Aug 20:00 | 9-Aug 21:00 | 320.5 | 1.28E+01 | -7.67E+01 | 0.37 | 15.64 | -4.84E+01 |
| 322 | 9-Aug 21:00 | 9-Aug 22:00 | 321.5 | -1.00E+00 | -7.97E+01 | 0.50 | 13.79 | -6.38E+01 |
| 323 | 9-Aug 22:00 | 9-Aug 23:00 | 322.5 | -1.00E+00 | -7.69E+01 | 0.28 | 12.49 | -6.76E+01 |
| 324 | 9-Aug 23:00 | 10-Aug 00:00 | 323.5 | -1.00E+00 | -7.57E+01 | 0.48 | 11.43 | -6.88E+01 |
| 325 | 10-Aug 00:00 | 10-Aug 01:00 | 324.5 | -1.00E+00 | -7.44E+01 | 0.42 | 10.64 | -6.78E+01 |
| 326 | 10-Aug 01:00 | 10-Aug 02:00 | 325.5 | -1.00E+00 | -7.08E+01 | 0.42 | 9.97 | -6.65E+01 |
| 327 | 10-Aug 02:00 | 10-Aug 03:00 | 326.5 | -1.00E+00 | -6.93E+01 | 0.33 | 9.45 | -6.42E+01 |
| 328 | 10-Aug 03:00 | 10-Aug 04:00 | 327.5 | -1.00E+00 | -6.89E+01 | 0.49 | 8.94 | -6.38E+01 |
| 329 | 10-Aug 04:00 | 10-Aug 05:00 | 328.5 | -1.00E+00 | -6.96E+01 | 0.36 | 8.57 | -6.09E+01 |
| 330 | 10-Aug 05:00 | 10-Aug 06:00 | 329.5 | -7.50E-01 | -6.57E+01 | 0.32 | 8.10 | -6.32E+01 |
| 331 | 10-Aug 06:00 | 10-Aug 07:00 | 330.5 | 1.53E+01 | -5.26E+01 | 0.50 | 7.80 | -5.93E+01 |
| 332 | 10-Aug 07:00 | 10-Aug 08:00 | 331.5 | 1.41E+02 | 5.17E+01 | 1.09 | 8.41 | -3.48E+01 |
| 333 | 10-Aug 08:00 | 10-Aug 09:00 | 332.5 | 3.04E+02 | 2.14E+02 | 1.72 | 9.69 | -1.31E+01 |

Table A.2 Dry-bulb temperature in air at various heights

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Dry-bulb temperature (°C) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 1 | 27-Jul 12:00 | 27-Jul 13:00 | 0.5 | 21.67 | 21.79 | 21.50 | 21.38 | 20.92 |
| 2 | 27-Jul 13:00 | 27-Jul 14:00 | 1.5 | n.m. | n.m. | n.m. | n.m. | n.m. |
| 3 | 27-Jul 14:00 | 27-Jul 15:00 | 2.5 | 22.86 | 22.98 | 22.43 | 22.34 | 22.00 |
| 4 | 27-Jul 15:00 | 27-Jul 16:00 | 3.5 | 23.78 | 23.57 | 22.98 | 23.23 | 22.72 |
| 5 | 27-Jul 16:00 | 27-Jul 17:00 | 4.5 | 25.40 | 25.04 | 24.13 | 24.39 | 23.85 |
| 6 | 27-Jul 17:00 | 27-Jul 18:00 | 5.5 | 23.52 | 23.52 | 23.21 | 23.31 | 22.97 |
| 7 | 27-Jul 18:00 | 27-Jul 19:00 | 6.5 | 23.95 | 23.92 | 23.34 | 23.59 | 23.13 |
| 8 | 27-Jul 19:00 | 27-Jul 20:00 | 7.5 | 22.87 | 22.67 | 22.41 | 22.47 | 22.13 |
| 9 | 27-Jul 20:00 | 27-Jul 21:00 | 8.5 | 18.06 | 17.92 | 18.27 | 18.35 | 18.36 |
| 10 | 27-Jul 21:00 | 27-Jul 22:00 | 9.5 | 15.79 | 15.80 | 16.19 | 16.29 | 16.53 |
| 11 | 27-Jul 22:00 | 27-Jul 23:00 | 10.5 | n.m. | n.m. | n.m. | n.m. | n.m. |
| 12 | 27-Jul 23:00 | 28-Jul 00:00 | 11.5 | 12.99 | 13.10 | 13.82 | 14.16 | 14.47 |
| 13 | 28-Jul 00:00 | 28-Jul 01:00 | 12.5 | 12.86 | 12.84 | 13.37 | 13.65 | 13.99 |
| 14 | 28-Jul 01:00 | 28-Jul 02:00 | 13.5 | 11.96 | 12.06 | 12.74 | 12.98 | 13.34 |
| 15 | 28-Jul 02:00 | 28-Jul 03:00 | 14.5 | 11.12 | 11.28 | 12.01 | 12.20 | 12.64 |
| 16 | 28-Jul 03:00 | 28-Jul 04:00 | 15.5 | 10.36 | 10.49 | 11.29 | 11.49 | 11.79 |
| 17 | 28-Jul 04:00 | 28-Jul 05:00 | 16.5 | 10.91 | 10.92 | 11.33 | 11.41 | 11.53 |
| 18 | 28-Jul 05:00 | 28-Jul 06:00 | 17.5 | 11.32 | 11.22 | 11.43 | 11.48 | 11.59 |
| 19 | 28-Jul 06:00 | 28-Jul 07:00 | 18.5 | 13.02 | 12.79 | 12.73 | 12.70 | 12.58 |
| 20 | 28-Jul 07:00 | 28-Jul 08:00 | 19.5 | 13.95 | 13.70 | 13.60 | 13.52 | 13.30 |
| 21 | 28-Jul 08:00 | 28-Jul 09:00 | 20.5 | 14.95 | 14.61 | 14.71 | 14.63 | 14.34 |
| 22 | 28-Jul 09:00 | 28-Jul 10:00 | 21.5 | 16.28 | 16.14 | 16.05 | 15.87 | 15.68 |
| 23 | 28-Jul 10:00 | 28-Jul 11:00 | 22.5 | 19.62 | 19.54 | 19.54 | 19.25 | 18.84 |
| 24 | 28-Jul 11:00 | 28-Jul 12:00 | 23.5 | 22.78 | 23.08 | 22.70 | 22.47 | 22.00 |
| 25 | 28-Jul 12:00 | 28-Jul 13:00 | 24.5 | 24.45 | 24.83 | 24.36 | 24.20 | 23.62 |
| 26 | 28-Jul 13:00 | 28-Jul 14:00 | 25.5 | 25.70 | 25.88 | 24.96 | 24.81 | 24.22 |
| 27 | 28-Jul 14:00 | 28-Jul 15:00 | 26.5 | 26.60 | 26.74 | 25.77 | 25.98 | 25.35 |
| 28 | 28-Jul 15:00 | 28-Jul 16:00 | 27.5 | 24.54 | 24.84 | 24.60 | 24.73 | 24.30 |
| 29 | 28-Jul 16:00 | 28-Jul 17:00 | 28.5 | 19.55 | 19.43 | 19.38 | 19.15 | 19.08 |
| 30 | 28-Jul 17:00 | 28-Jul 18:00 | 29.5 | 23.30 | 23.16 | 22.10 | 22.05 | 21.70 |
| 31 | 28-Jul 18:00 | 28-Jul 19:00 | 30.5 | 21.56 | 21.59 | 21.52 | 21.41 | 21.19 |
| 32 | 28-Jul 19:00 | 28-Jul 20:00 | 31.5 | 21.49 | 21.49 | 21.18 | 21.08 | 20.92 |
| 33 | 28-Jul 20:00 | 28-Jul 21:00 | 32.5 | 19.43 | 19.31 | 19.26 | 19.34 | 19.45 |
| 34 | 28-Jul 21:00 | 28-Jul 22:00 | 33.5 | 14.90 | 15.12 | 16.16 | 16.53 | 16.92 |
| 35 | 28-Jul 22:00 | 28-Jul 23:00 | 34.5 | 13.65 | 13.72 | 14.64 | 15.14 | 15.75 |
| 36 | 28-Jul 23:00 | 29-Jul 00:00 | 35.5 | 13.14 | 13.38 | 14.28 | 14.58 | 14.89 |
| 37 | 29-Jul 00:00 | 29-Jul 01:00 | 36.5 | 12.28 | 12.41 | 13.15 | 13.55 | 14.03 |
| 38 | 29-Jul 01:00 | 29-Jul 02:00 | 37.5 | 10.94 | 11.09 | 12.13 | 12.51 | 13.02 |
| 39 | 29-Jul 02:00 | 29-Jul 03:00 | 38.5 | 10.03 | 10.24 | 11.28 | 11.60 | 12.19 |
| 40 | 29-Jul 03:00 | 29-Jul 04:00 | 39.5 | 9.07 | 9.38 | 10.50 | 10.84 | 11.31 |
| 41 | 29-Jul 04:00 | 29-Jul 05:00 | 40.5 | 8.44 | 8.64 | 9.71 | 10.12 | 10.65 |
| 42 | 29-Jul 05:00 | 29-Jul 06:00 | 41.5 | 7.95 | 8.11 | 9.10 | 9.40 | 9.86 |
| 43 | 29-Jul 06:00 | 29-Jul 07:00 | 42.5 | 8.58 | 8.55 | 9.20 | 9.50 | 9.85 |
| 44 | 29-Jul 07:00 | 29-Jul 08:00 | 43.5 | 12.53 | 12.47 | 12.54 | 12.40 | 12.28 |
| 45 | 29-Jul 08:00 | 29-Jul 09:00 | 44.5 | 16.47 | 16.58 | 16.66 | 16.29 | 15.89 |
| 46 | 29-Jul 09:00 | 29-Jul 10:00 | 45.5 | 19.15 | 19.61 | 19.69 | 19.51 | 19.11 |
| 47 | 29-Jul 10:00 | 29-Jul 11:00 | 46.5 | 21.84 | 21.99 | 22.00 | 21.85 | 21.33 |
| 48 | 29-Jul 11:00 | 29-Jul 12:00 | 47.5 | 23.85 | 24.15 | 23.93 | 23.97 | 23.42 |
| 49 | 29-Jul 12:00 | 29-Jul 13:00 | 48.5 | 25.15 | 25.40 | 25.20 | 25.24 | 24.78 |
| 50 | 29-Jul 13:00 | 29-Jul 14:00 | 49.5 | 25.47 | 25.65 | 25.50 | 25.68 | 25.22 |

n.m.: not measured

Table A.2 Dry-bulb temperature in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Dry-bulb temperature (°C) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 51 | 29-Jul 14:00 | 29-Jul 15:00 | 50.5 | 26.46 | 26.62 | 26.27 | 26.53 | 25.98 |
| 52 | 29-Jul 15:00 | 29-Jul 16:00 | 51.5 | 26.09 | 26.24 | 26.11 | 26.34 | 25.93 |
| 53 | 29-Jul 16:00 | 29-Jul 17:00 | 52.5 | 26.07 | 26.09 | 25.92 | 26.00 | 25.76 |
| 54 | 29-Jul 17:00 | 29-Jul 18:00 | 53.5 | 25.39 | 25.47 | 25.48 | 25.51 | 25.37 |
| 55 | 29-Jul 18:00 | 29-Jul 19:00 | 54.5 | 23.52 | 23.56 | 23.69 | 23.66 | 23.61 |
| 56 | 29-Jul 19:00 | 29-Jul 20:00 | 55.5 | 22.10 | 22.13 | 22.39 | 22.47 | 22.39 |
| 57 | 29-Jul 20:00 | 29-Jul 21:00 | 56.5 | 21.02 | 20.91 | 21.06 | 21.14 | 21.05 |
| 58 | 29-Jul 21:00 | 29-Jul 22:00 | 57.5 | 19.79 | 19.67 | 19.93 | 20.08 | 20.16 |
| 59 | 29-Jul 22:00 | 29-Jul 23:00 | 58.5 | 18.52 | 18.43 | 18.77 | 18.95 | 19.08 |
| 60 | 29-Jul 23:00 | 30-Jul 00:00 | 59.5 | 16.12 | 16.22 | 17.10 | 17.37 | 17.68 |
| 61 | 30-Jul 00:00 | 30-Jul 01:00 | 60.5 | 15.16 | 15.27 | 15.94 | 16.25 | 16.63 |
| 62 | 30-Jul 01:00 | 30-Jul 02:00 | 61.5 | 13.74 | 13.92 | 14.87 | 15.21 | 15.66 |
| 63 | 30-Jul 02:00 | 30-Jul 03:00 | 62.5 | 13.14 | 13.26 | 14.12 | 14.42 | 14.83 |
| 64 | 30-Jul 03:00 | 30-Jul 04:00 | 63.5 | 12.49 | 12.62 | 13.50 | 13.80 | 14.20 |
| 65 | 30-Jul 04:00 | 30-Jul 05:00 | 64.5 | 11.72 | 11.87 | 12.77 | 13.13 | 13.55 |
| 66 | 30-Jul 05:00 | 30-Jul 06:00 | 65.5 | 11.62 | 11.71 | 12.36 | 12.59 | 12.87 |
| 67 | 30-Jul 06:00 | 30-Jul 07:00 | 66.5 | 12.60 | 12.52 | 12.93 | 13.04 | 13.07 |
| 68 | 30-Jul 07:00 | 30-Jul 08:00 | 67.5 | 15.32 | 15.04 | 15.13 | 15.21 | 14.94 |
| 69 | 30-Jul 08:00 | 30-Jul 09:00 | 68.5 | 17.14 | 16.86 | 17.00 | 17.05 | 16.72 |
| 70 | 30-Jul 09:00 | 30-Jul 10:00 | 69.5 | 17.88 | 17.68 | 17.80 | 17.82 | 17.58 |
| 71 | 30-Jul 10:00 | 30-Jul 11:00 | 70.5 | 18.52 | 18.45 | 18.53 | 18.52 | 18.26 |
| 72 | 30-Jul 11:00 | 30-Jul 12:00 | 71.5 | 18.11 | 18.03 | 17.73 | 17.63 | 17.55 |
| 73 | 30-Jul 12:00 | 30-Jul 13:00 | 72.5 | 18.65 | 18.43 | 18.20 | 18.12 | 17.93 |
| 74 | 30-Jul 13:00 | 30-Jul 14:00 | 73.5 | 20.14 | 20.13 | 19.90 | 19.73 | 19.39 |
| 75 | 30-Jul 14:00 | 30-Jul 15:00 | 74.5 | 19.90 | 19.80 | 19.72 | 19.72 | 19.40 |
| 76 | 30-Jul 15:00 | 30-Jul 16:00 | 75.5 | 20.58 | 20.47 | 20.23 | 20.20 | 19.85 |
| 77 | 30-Jul 16:00 | 30-Jul 17:00 | 76.5 | 21.61 | 21.39 | 21.17 | 21.19 | 20.78 |
| 78 | 30-Jul 17:00 | 30-Jul 18:00 | 77.5 | 22.43 | 22.18 | 21.87 | 21.82 | 21.46 |
| 79 | 30-Jul 18:00 | 30-Jul 19:00 | 78.5 | 22.85 | 22.65 | 22.23 | 22.21 | 21.92 |
| 80 | 30-Jul 19:00 | 30-Jul 20:00 | 79.5 | 22.12 | 22.11 | 21.69 | 21.52 | 21.34 |
| 81 | 30-Jul 20:00 | 30-Jul 21:00 | 80.5 | 19.27 | 19.08 | 19.13 | 19.18 | 19.15 |
| 82 | 30-Jul 21:00 | 30-Jul 22:00 | 81.5 | 15.93 | 16.11 | 16.93 | 17.21 | 17.43 |
| 83 | 30-Jul 22:00 | 30-Jul 23:00 | 82.5 | 13.99 | 14.25 | 15.29 | 15.70 | 16.09 |
| 84 | 30-Jul 23:00 | 31-Jul 00:00 | 83.5 | 13.19 | 13.26 | 14.25 | 14.76 | 15.35 |
| 85 | 31-Jul 00:00 | 31-Jul 01:00 | 84.5 | 12.90 | 13.05 | 14.08 | 14.54 | 15.06 |
| 86 | 31-Jul 01:00 | 31-Jul 02:00 | 85.5 | 12.03 | 12.20 | 13.22 | 13.69 | 14.26 |
| 87 | 31-Jul 02:00 | 31-Jul 03:00 | 86.5 | 11.61 | 11.59 | 12.38 | 12.83 | 13.49 |
| 88 | 31-Jul 03:00 | 31-Jul 04:00 | 87.5 | 11.57 | 11.58 | 12.25 | 12.64 | 13.09 |
| 89 | 31-Jul 04:00 | 31-Jul 05:00 | 88.5 | 12.89 | 12.76 | 12.93 | 13.02 | 13.10 |
| 90 | 31-Jul 05:00 | 31-Jul 06:00 | 89.5 | 12.04 | 11.97 | 12.24 | 12.35 | 12.42 |
| 91 | 31-Jul 06:00 | 31-Jul 07:00 | 90.5 | 12.06 | 11.89 | 12.04 | 12.11 | 12.10 |
| 92 | 31-Jul 07:00 | 31-Jul 08:00 | 91.5 | 14.59 | 14.41 | 14.28 | 14.22 | 14.07 |
| 93 | 31-Jul 08:00 | 31-Jul 09:00 | 92.5 | 16.98 | 16.65 | 16.28 | 16.12 | 15.96 |
| 94 | 31-Jul 09:00 | 31-Jul 10:00 | 93.5 | 18.70 | 18.10 | 17.46 | 17.20 | 16.86 |
| 95 | 31-Jul 10:00 | 31-Jul 11:00 | 94.5 | 21.37 | 21.10 | 20.71 | 19.91 | 19.44 |
| 96 | 31-Jul 11:00 | 31-Jul 12:00 | 95.5 | 24.17 | 24.49 | 23.68 | 23.06 | 22.70 |
| 97 | 31-Jul 12:00 | 31-Jul 13:00 | 96.5 | 25.97 | 26.18 | 25.49 | 25.29 | 24.79 |
| 98 | 31-Jul 13:00 | 31-Jul 14:00 | 97.5 | 26.69 | 27.09 | 26.80 | 26.95 | 26.43 |
| 99 | 31-Jul 14:00 | 31-Jul 15:00 | 98.5 | 27.20 | 27.63 | 27.19 | 27.49 | 26.97 |
| 100 | 31-Jul 15:00 | 31-Jul 16:00 | 99.5 | 27.51 | 27.87 | 27.50 | 27.85 | 27.34 |

Table A.2 Dry-bulb temperature in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Dry-bulb temperature (°C) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 101 | 31-Jul 16:00 | 31-Jul 17:00 | 100.5 | 27.42 | 27.70 | 27.52 | 27.80 | 27.37 |
| 102 | 31-Jul 17:00 | 31-Jul 18:00 | 101.5 | 26.23 | 26.57 | 26.60 | 26.82 | 26.53 |
| 103 | 31-Jul 18:00 | 31-Jul 19:00 | 102.5 | 25.48 | 25.88 | 25.99 | 26.16 | 25.93 |
| 104 | 31-Jul 19:00 | 31-Jul 20:00 | 103.5 | 23.79 | 23.90 | 24.09 | 24.21 | 24.17 |
| 105 | 31-Jul 20:00 | 31-Jul 21:00 | 104.5 | 20.29 | 20.20 | 20.71 | 20.98 | 21.26 |
| 106 | 31-Jul 21:00 | 31-Jul 22:00 | 105.5 | 17.30 | 17.38 | 18.28 | 18.72 | 19.30 |
| 107 | 31-Jul 22:00 | 31-Jul 23:00 | 106.5 | 15.91 | 16.03 | 16.95 | 17.42 | 18.06 |
| 108 | 31-Jul 23:00 | 1-Aug 00:00 | 107.5 | 14.93 | 15.06 | 15.98 | 16.36 | 16.82 |
| 109 | 1-Aug 00:00 | 1-Aug 01:00 | 108.5 | 14.17 | 14.33 | 15.26 | 15.67 | 16.09 |
| 110 | 1-Aug 01:00 | 1-Aug 02:00 | 109.5 | 13.76 | 13.86 | 14.69 | 15.06 | 15.45 |
| 111 | 1-Aug 02:00 | 1-Aug 03:00 | 110.5 | 12.97 | 13.10 | 13.96 | 14.35 | 14.79 |
| 112 | 1-Aug 03:00 | 1-Aug 04:00 | 111.5 | 12.42 | 12.46 | 13.29 | 13.76 | 14.30 |
| 113 | 1-Aug 04:00 | 1-Aug 05:00 | 112.5 | 12.79 | 12.84 | 13.42 | 13.72 | 14.12 |
| 114 | 1-Aug 05:00 | 1-Aug 06:00 | 113.5 | 14.41 | 14.30 | 14.48 | 14.58 | 14.66 |
| 115 | 1-Aug 06:00 | 1-Aug 07:00 | 114.5 | 15.25 | 15.17 | 15.40 | 15.51 | 15.63 |
| 116 | 1-Aug 07:00 | 1-Aug 08:00 | 115.5 | 17.69 | 17.90 | 17.95 | 17.83 | 17.71 |
| 117 | 1-Aug 08:00 | 1-Aug 09:00 | 116.5 | 20.11 | 20.42 | 20.03 | 19.85 | 19.65 |
| 118 | 1-Aug 09:00 | 1-Aug 10:00 | 117.5 | 21.73 | 22.29 | 21.74 | 21.46 | 21.15 |
| 119 | 1-Aug 10:00 | 1-Aug 11:00 | 118.5 | 24.13 | 24.30 | 23.81 | 23.49 | 23.15 |
| 120 | 1-Aug 11:00 | 1-Aug 12:00 | 119.5 | 25.02 | 25.59 | 25.36 | 25.36 | 24.98 |
| 121 | 1-Aug 12:00 | 1-Aug 13:00 | 120.5 | 26.97 | 27.41 | 27.02 | 27.01 | 26.50 |
| 122 | 1-Aug 13:00 | 1-Aug 14:00 | 121.5 | 25.09 | 25.38 | 25.57 | 25.62 | 25.38 |
| 123 | 1-Aug 14:00 | 1-Aug 15:00 | 122.5 | 20.95 | 20.72 | 20.97 | 20.70 | 20.68 |
| 124 | 1-Aug 15:00 | 1-Aug 16:00 | 123.5 | 21.13 | 20.93 | 20.70 | 20.60 | 20.43 |
| 125 | 1-Aug 16:00 | 1-Aug 17:00 | 124.5 | 22.54 | 22.11 | 21.51 | 21.39 | 21.29 |
| 126 | 1-Aug 17:00 | 1-Aug 18:00 | 125.5 | 22.97 | 23.33 | 22.90 | 22.87 | 22.58 |
| 127 | 1-Aug 18:00 | 1-Aug 19:00 | 126.5 | 23.02 | 22.98 | 22.58 | 22.46 | 22.27 |
| 128 | 1-Aug 19:00 | 1-Aug 20:00 | 127.5 | 22.57 | 22.80 | 22.80 | 22.83 | 22.69 |
| 129 | 1-Aug 20:00 | 1-Aug 21:00 | 128.5 | 21.00 | 21.01 | 21.31 | 21.35 | 21.33 |
| 130 | 1-Aug 21:00 | 1-Aug 22:00 | 129.5 | 19.07 | 19.00 | 19.36 | 19.48 | 19.51 |
| 131 | 1-Aug 22:00 | 1-Aug 23:00 | 130.5 | 18.96 | 18.91 | 19.17 | 19.27 | 19.28 |
| 132 | 1-Aug 23:00 | 2-Aug 00:00 | 131.5 | 19.76 | 19.91 | 20.12 | 20.17 | 20.15 |
| 133 | 2-Aug 00:00 | 2-Aug 01:00 | 132.5 | 18.86 | 18.92 | 19.08 | 19.08 | 19.05 |
| 134 | 2-Aug 01:00 | 2-Aug 02:00 | 133.5 | 17.87 | 17.89 | 17.99 | 17.96 | 17.92 |
| 135 | 2-Aug 02:00 | 2-Aug 03:00 | 134.5 | 16.17 | 16.13 | 16.16 | 16.15 | 16.07 |
| 136 | 2-Aug 03:00 | 2-Aug 04:00 | 135.5 | 15.71 | 15.75 | 15.80 | 15.78 | 15.73 |
| 137 | 2-Aug 04:00 | 2-Aug 05:00 | 136.5 | 15.22 | 15.35 | 15.43 | 15.42 | 15.39 |
| 138 | 2-Aug 05:00 | 2-Aug 06:00 | 137.5 | 14.07 | 13.99 | 13.97 | 14.01 | 13.90 |
| 139 | 2-Aug 06:00 | 2-Aug 07:00 | 138.5 | 13.68 | 13.61 | 13.63 | 13.70 | 13.59 |
| 140 | 2-Aug 07:00 | 2-Aug 08:00 | 139.5 | 13.91 | 13.95 | 14.19 | 14.19 | 14.26 |
| 141 | 2-Aug 08:00 | 2-Aug 09:00 | 140.5 | 14.18 | 14.31 | 14.40 | 14.38 | 14.33 |
| 142 | 2-Aug 09:00 | 2-Aug 10:00 | 141.5 | 15.00 | 14.98 | 14.95 | 14.87 | 14.76 |
| 143 | 2-Aug 10:00 | 2-Aug 11:00 | 142.5 | 16.26 | 16.13 | 16.08 | 16.04 | 15.82 |
| 144 | 2-Aug 11:00 | 2-Aug 12:00 | 143.5 | 18.27 | 18.16 | 17.98 | 17.89 | 17.60 |
| 145 | 2-Aug 12:00 | 2-Aug 13:00 | 144.5 | 19.95 | 19.98 | 19.65 | 19.52 | 19.18 |
| 146 | 2-Aug 13:00 | 2-Aug 14:00 | 145.5 | 22.24 | 22.33 | 21.78 | 21.57 | 21.20 |
| 147 | 2-Aug 14:00 | 2-Aug 15:00 | 146.5 | 22.91 | 22.98 | 22.16 | 22.10 | 21.71 |
| 148 | 2-Aug 15:00 | 2-Aug 16:00 | 147.5 | 23.72 | 23.58 | 22.77 | 22.85 | 22.47 |
| 149 | 2-Aug 16:00 | 2-Aug 17:00 | 148.5 | 23.45 | 23.41 | 22.72 | 22.66 | 22.30 |
| 150 | 2-Aug 17:00 | 2-Aug 18:00 | 149.5 | 23.28 | 22.96 | 22.06 | 22.20 | 21.87 |

Table A.2 Dry-bulb temperature in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Dry-bulb temperature (°C) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 151 | 2-Aug 18:00 | 2-Aug 19:00 | 150.5 | 22.58 | 22.27 | 21.57 | 21.68 | 21.46 |
| 152 | 2-Aug 19:00 | 2-Aug 20:00 | 151.5 | 20.30 | 19.85 | 19.72 | 19.75 | 19.53 |
| 153 | 2-Aug 20:00 | 2-Aug 21:00 | 152.5 | 18.34 | 17.94 | 18.08 | 18.14 | 18.07 |
| 154 | 2-Aug 21:00 | 2-Aug 22:00 | 153.5 | 15.33 | 15.12 | 15.54 | 15.72 | 15.96 |
| 155 | 2-Aug 22:00 | 2-Aug 23:00 | 154.5 | 13.64 | 13.54 | 14.36 | 14.60 | 14.93 |
| 156 | 2-Aug 23:00 | 3-Aug 00:00 | 155.5 | 12.65 | 12.57 | 13.40 | 13.67 | 14.11 |
| 157 | 3-Aug 00:00 | 3-Aug 01:00 | 156.5 | 14.04 | 13.84 | 14.11 | 14.16 | 14.21 |
| 158 | 3-Aug 01:00 | 3-Aug 02:00 | 157.5 | 12.46 | 12.37 | 13.20 | 13.41 | 13.66 |
| 159 | 3-Aug 02:00 | 3-Aug 03:00 | 158.5 | 13.26 | 13.09 | 13.40 | 13.50 | 13.59 |
| 160 | 3-Aug 03:00 | 3-Aug 04:00 | 159.5 | 13.38 | 13.18 | 13.40 | 13.48 | 13.53 |
| 161 | 3-Aug 04:00 | 3-Aug 05:00 | 160.5 | 12.53 | 12.39 | 12.73 | 12.84 | 12.94 |
| 162 | 3-Aug 05:00 | 3-Aug 06:00 | 161.5 | 12.84 | 12.62 | 12.80 | 12.85 | 12.87 |
| 163 | 3-Aug 06:00 | 3-Aug 07:00 | 162.5 | 13.94 | 13.71 | 13.72 | 13.70 | 13.58 |
| 164 | 3-Aug 07:00 | 3-Aug 08:00 | 163.5 | 15.26 | 14.99 | 14.88 | 14.81 | 14.65 |
| 165 | 3-Aug 08:00 | 3-Aug 09:00 | 164.5 | 17.03 | 16.49 | 15.98 | 15.81 | 15.60 |
| 166 | 3-Aug 09:00 | 3-Aug 10:00 | 165.5 | 18.50 | 17.95 | 17.42 | 17.13 | 16.63 |
| 167 | 3-Aug 10:00 | 3-Aug 11:00 | 166.5 | 20.31 | 20.05 | 19.66 | 19.57 | 18.86 |
| 168 | 3-Aug 11:00 | 3-Aug 12:00 | 167.5 | 22.47 | 22.37 | 21.76 | 21.43 | 21.05 |
| 169 | 3-Aug 12:00 | 3-Aug 13:00 | 168.5 | 24.03 | 24.31 | 23.72 | 23.42 | 22.93 |
| 170 | 3-Aug 13:00 | 3-Aug 14:00 | 169.5 | 24.35 | 24.35 | 24.13 | 24.28 | 23.78 |
| 171 | 3-Aug 14:00 | 3-Aug 15:00 | 170.5 | 26.04 | 25.98 | 25.04 | 25.47 | 24.83 |
| 172 | 3-Aug 15:00 | 3-Aug 16:00 | 171.5 | 26.18 | 26.11 | 25.34 | 25.74 | 25.21 |
| 173 | 3-Aug 16:00 | 3-Aug 17:00 | 172.5 | 26.37 | 26.30 | 25.68 | 26.06 | 25.59 |
| 174 | 3-Aug 17:00 | 3-Aug 18:00 | 173.5 | 25.59 | 25.69 | 25.22 | 25.56 | 25.19 |
| 175 | 3-Aug 18:00 | 3-Aug 19:00 | 174.5 | 24.92 | 24.97 | 24.85 | 25.10 | 24.83 |
| 176 | 3-Aug 19:00 | 3-Aug 20:00 | 175.5 | 23.11 | 23.09 | 23.21 | 23.35 | 23.28 |
| 177 | 3-Aug 20:00 | 3-Aug 21:00 | 176.5 | 17.60 | 17.32 | 18.03 | 18.34 | 18.76 |
| 178 | 3-Aug 21:00 | 3-Aug 22:00 | 177.5 | 14.42 | 14.28 | 15.34 | 15.75 | 16.40 |
| 179 | 3-Aug 22:00 | 3-Aug 23:00 | 178.5 | 13.38 | 13.26 | 14.24 | 14.60 | 15.08 |
| 180 | 3-Aug 23:00 | 4-Aug 00:00 | 179.5 | 14.22 | 14.04 | 14.51 | 14.77 | 15.05 |
| 181 | 4-Aug 00:00 | 4-Aug 01:00 | 180.5 | 13.88 | 13.78 | 14.37 | 14.63 | 14.79 |
| 182 | 4-Aug 01:00 | 4-Aug 02:00 | 181.5 | 14.48 | 14.31 | 14.62 | 14.76 | 14.89 |
| 183 | 4-Aug 02:00 | 4-Aug 03:00 | 182.5 | 15.76 | 15.65 | 15.94 | 16.07 | 16.20 |
| 184 | 4-Aug 03:00 | 4-Aug 04:00 | 183.5 | 16.44 | 16.61 | 16.95 | 17.04 | 17.12 |
| 185 | 4-Aug 04:00 | 4-Aug 05:00 | 184.5 | 16.28 | 16.09 | 16.26 | 16.35 | 16.38 |
| 186 | 4-Aug 05:00 | 4-Aug 06:00 | 185.5 | 16.30 | 16.02 | 16.01 | 15.99 | 15.85 |
| 187 | 4-Aug 06:00 | 4-Aug 07:00 | 186.5 | 16.30 | 16.07 | 15.96 | 15.94 | 15.87 |
| 188 | 4-Aug 07:00 | 4-Aug 08:00 | 187.5 | 16.79 | 16.58 | 16.47 | 16.44 | 16.38 |
| 189 | 4-Aug 08:00 | 4-Aug 09:00 | 188.5 | 17.38 | 17.20 | 17.04 | 16.99 | 16.93 |
| 190 | 4-Aug 09:00 | 4-Aug 10:00 | 189.5 | 17.87 | 17.59 | 17.36 | 17.30 | 17.23 |
| 191 | 4-Aug 10:00 | 4-Aug 11:00 | 190.5 | 18.81 | 18.48 | 18.18 | 18.11 | 18.00 |
| 192 | 4-Aug 11:00 | 4-Aug 12:00 | 191.5 | 19.91 | 19.53 | 19.11 | 19.01 | 18.88 |
| 193 | 4-Aug 12:00 | 4-Aug 13:00 | 192.5 | 20.39 | 20.11 | 19.81 | 19.73 | 19.64 |
| 194 | 4-Aug 13:00 | 4-Aug 14:00 | 193.5 | 20.01 | 19.80 | 19.70 | 19.66 | 19.55 |
| 195 | 4-Aug 14:00 | 4-Aug 15:00 | 194.5 | 19.48 | 19.29 | 19.24 | 19.19 | 19.03 |
| 196 | 4-Aug 15:00 | 4-Aug 16:00 | 195.5 | 19.63 | 19.50 | 19.45 | 19.39 | 19.26 |
| 197 | 4-Aug 16:00 | 4-Aug 17:00 | 196.5 | 17.40 | 17.32 | 17.28 | 17.27 | 17.09 |
| 198 | 4-Aug 17:00 | 4-Aug 18:00 | 197.5 | 14.46 | 14.38 | 14.34 | 14.32 | 14.26 |
| 199 | 4-Aug 18:00 | 4-Aug 19:00 | 198.5 | 13.21 | 13.34 | 13.37 | 13.28 | 13.25 |
| 200 | 4-Aug 19:00 | 4-Aug 20:00 | 199.5 | 12.25 | 12.31 | 12.33 | 12.27 | 12.22 |

Table A.2 Dry-bulb temperature in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Dry-bulb temperature (°C) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 201 | 4-Aug 20:00 | 4-Aug 21:00 | 200.5 | 11.23 | 11.17 | 11.22 | 11.18 | 11.12 |
| 202 | 4-Aug 21:00 | 4-Aug 22:00 | 201.5 | 10.14 | 10.16 | 10.22 | 10.18 | 10.15 |
| 203 | 4-Aug 22:00 | 4-Aug 23:00 | 202.5 | 9.68 | 9.72 | 9.81 | 9.80 | 9.78 |
| 204 | 4-Aug 23:00 | 5-Aug 00:00 | 203.5 | 9.20 | 9.23 | 9.26 | 9.25 | 9.21 |
| 205 | 5-Aug 00:00 | 5-Aug 01:00 | 204.5 | 9.48 | 9.43 | 9.54 | 9.54 | 9.51 |
| 206 | 5-Aug 01:00 | 5-Aug 02:00 | 205.5 | 9.70 | 9.55 | 9.68 | 9.70 | 9.63 |
| 207 | 5-Aug 02:00 | 5-Aug 03:00 | 206.5 | 9.72 | 9.57 | 9.70 | 9.72 | 9.66 |
| 208 | 5-Aug 03:00 | 5-Aug 04:00 | 207.5 | 8.91 | 8.78 | 9.05 | 9.11 | 9.14 |
| 209 | 5-Aug 04:00 | 5-Aug 05:00 | 208.5 | 7.67 | 7.53 | 7.90 | 8.00 | 8.07 |
| 210 | 5-Aug 05:00 | 5-Aug 06:00 | 209.5 | 6.06 | 5.94 | 6.72 | 6.89 | 7.06 |
| 211 | 5-Aug 06:00 | 5-Aug 07:00 | 210.5 | 6.87 | 6.79 | 7.16 | 7.25 | 7.32 |
| 212 | 5-Aug 07:00 | 5-Aug 08:00 | 211.5 | 8.42 | 8.41 | 8.69 | 8.70 | 8.61 |
| 213 | 5-Aug 08:00 | 5-Aug 09:00 | 212.5 | 10.87 | 11.07 | 11.17 | 11.03 | 10.75 |
| 214 | 5-Aug 09:00 | 5-Aug 10:00 | 213.5 | 12.99 | 13.13 | 13.05 | 12.83 | 12.42 |
| 215 | 5-Aug 10:00 | 5-Aug 11:00 | 214.5 | 14.68 | 14.58 | 14.47 | 14.20 | 13.82 |
| 216 | 5-Aug 11:00 | 5-Aug 12:00 | 215.5 | 15.69 | 15.70 | 15.39 | 15.17 | 14.82 |
| 217 | 5-Aug 12:00 | 5-Aug 13:00 | 216.5 | 16.64 | 16.57 | 16.19 | 15.98 | 15.60 |
| 218 | 5-Aug 13:00 | 5-Aug 14:00 | 217.5 | 17.89 | 17.70 | 17.25 | 17.14 | 16.74 |
| 219 | 5-Aug 14:00 | 5-Aug 15:00 | 218.5 | 18.31 | 18.03 | 17.58 | 17.57 | 17.17 |
| 220 | 5-Aug 15:00 | 5-Aug 16:00 | 219.5 | 17.93 | 17.70 | 17.48 | 17.46 | 17.18 |
| 221 | 5-Aug 16:00 | 5-Aug 17:00 | 220.5 | 17.91 | 17.72 | 17.52 | 17.47 | 17.28 |
| 222 | 5-Aug 17:00 | 5-Aug 18:00 | 221.5 | 18.87 | 18.53 | 18.12 | 18.14 | 17.90 |
| 223 | 5-Aug 18:00 | 5-Aug 19:00 | 222.5 | 18.55 | 18.34 | 18.18 | 18.24 | 18.04 |
| 224 | 5-Aug 19:00 | 5-Aug 20:00 | 223.5 | 17.03 | 16.59 | 16.67 | 16.73 | 16.64 |
| 225 | 5-Aug 20:00 | 5-Aug 21:00 | 224.5 | 11.62 | 11.24 | 11.79 | 11.97 | 12.32 |
| 226 | 5-Aug 21:00 | 5-Aug 22:00 | 225.5 | 8.15 | 8.05 | 9.25 | 9.58 | 10.04 |
| 227 | 5-Aug 22:00 | 5-Aug 23:00 | 226.5 | 6.68 | 6.56 | 7.76 | 8.14 | 8.62 |
| 228 | 5-Aug 23:00 | 6-Aug 00:00 | 227.5 | 5.96 | 5.92 | 7.03 | 7.39 | 7.78 |
| 229 | 6-Aug 00:00 | 6-Aug 01:00 | 228.5 | 5.35 | 5.41 | 6.46 | 6.68 | 7.03 |
| 230 | 6-Aug 01:00 | 6-Aug 02:00 | 229.5 | 5.45 | 5.37 | 6.22 | 6.53 | 6.92 |
| 231 | 6-Aug 02:00 | 6-Aug 03:00 | 230.5 | 4.79 | 4.66 | 5.56 | 5.82 | 6.14 |
| 232 | 6-Aug 03:00 | 6-Aug 04:00 | 231.5 | 4.72 | 4.58 | 5.25 | 5.50 | 5.82 |
| 233 | 6-Aug 04:00 | 6-Aug 05:00 | 232.5 | 4.57 | 4.35 | 4.94 | 5.17 | 5.47 |
| 234 | 6-Aug 05:00 | 6-Aug 06:00 | 233.5 | 4.84 | 4.59 | 4.98 | 5.10 | 5.24 |
| 235 | 6-Aug 06:00 | 6-Aug 07:00 | 234.5 | 6.03 | 5.63 | 5.66 | 5.69 | 5.61 |
| 236 | 6-Aug 07:00 | 6-Aug 08:00 | 235.5 | 7.72 | 7.40 | 7.37 | 7.31 | 7.13 |
| 237 | 6-Aug 08:00 | 6-Aug 09:00 | 236.5 | 11.34 | 11.10 | 10.60 | 10.35 | 10.07 |
| 238 | 6-Aug 09:00 | 6-Aug 10:00 | 237.5 | 13.94 | 13.75 | 13.06 | 12.60 | 12.14 |
| 239 | 6-Aug 10:00 | 6-Aug 11:00 | 238.5 | 16.99 | 16.83 | 16.46 | 15.92 | 15.27 |
| 240 | 6-Aug 11:00 | 6-Aug 12:00 | 239.5 | 20.14 | 20.22 | 19.30 | 18.71 | 18.21 |
| 241 | 6-Aug 12:00 | 6-Aug 13:00 | 240.5 | 22.27 | 22.30 | 21.42 | 20.93 | 20.46 |
| 242 | 6-Aug 13:00 | 6-Aug 14:00 | 241.5 | 22.74 | 22.71 | 22.01 | 21.82 | 21.36 |
| 243 | 6-Aug 14:00 | 6-Aug 15:00 | 242.5 | 23.10 | 23.13 | 22.40 | 22.45 | 22.03 |
| 244 | 6-Aug 15:00 | 6-Aug 16:00 | 243.5 | 24.04 | 23.90 | 22.77 | 23.11 | 22.50 |
| 245 | 6-Aug 16:00 | 6-Aug 17:00 | 244.5 | 22.50 | 22.54 | 22.21 | 22.25 | 21.92 |
| 246 | 6-Aug 17:00 | 6-Aug 18:00 | 245.5 | 22.55 | 22.42 | 22.02 | 22.13 | 21.89 |
| 247 | 6-Aug 18:00 | 6-Aug 19:00 | 246.5 | 21.50 | 21.29 | 21.12 | 21.24 | 20.92 |
| 248 | 6-Aug 19:00 | 6-Aug 20:00 | 247.5 | 18.92 | 18.40 | 18.47 | 18.52 | 18.38 |
| 249 | 6-Aug 20:00 | 6-Aug 21:00 | 248.5 | 14.73 | 14.44 | 15.08 | 15.28 | 15.45 |
| 250 | 6-Aug 21:00 | 6-Aug 22:00 | 249.5 | 11.43 | 11.38 | 12.57 | 12.91 | 13.32 |

Table A.2 Dry-bulb temperature in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Dry-bulb temperature (°C) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 251 | 6-Aug 22:00 | 6-Aug 23:00 | 250.5 | 11.17 | 11.07 | 11.82 | 12.18 | 12.55 |
| 252 | 6-Aug 23:00 | 7-Aug 00:00 | 251.5 | 10.98 | 10.84 | 11.67 | 12.00 | 12.36 |
| 253 | 7-Aug 00:00 | 7-Aug 01:00 | 252.5 | 9.42 | 9.47 | 10.59 | 10.96 | 11.34 |
| 254 | 7-Aug 01:00 | 7-Aug 02:00 | 253.5 | 8.49 | 8.48 | 9.43 | 9.74 | 10.17 |
| 255 | 7-Aug 02:00 | 7-Aug 03:00 | 254.5 | 8.06 | 8.02 | 8.85 | 9.18 | 9.54 |
| 256 | 7-Aug 03:00 | 7-Aug 04:00 | 255.5 | 7.31 | 7.28 | 8.23 | 8.54 | 9.01 |
| 257 | 7-Aug 04:00 | 7-Aug 05:00 | 256.5 | 7.09 | 7.04 | 7.81 | 8.03 | 8.33 |
| 258 | 7-Aug 05:00 | 7-Aug 06:00 | 257.5 | 7.35 | 7.20 | 7.68 | 7.85 | 8.04 |
| 259 | 7-Aug 06:00 | 7-Aug 07:00 | 258.5 | 9.88 | 9.61 | 9.62 | 9.62 | 9.48 |
| 260 | 7-Aug 07:00 | 7-Aug 08:00 | 259.5 | 10.89 | 10.60 | 10.48 | 10.46 | 10.24 |
| 261 | 7-Aug 08:00 | 7-Aug 09:00 | 260.5 | 13.23 | 12.93 | 12.58 | 12.43 | 12.18 |
| 262 | 7-Aug 09:00 | 7-Aug 10:00 | 261.5 | 16.29 | 15.86 | 14.98 | 14.67 | 14.18 |
| 263 | 7-Aug 10:00 | 7-Aug 11:00 | 262.5 | 19.47 | 19.20 | 18.48 | 18.44 | 17.65 |
| 264 | 7-Aug 11:00 | 7-Aug 12:00 | 263.5 | 21.84 | 21.95 | 21.18 | 20.78 | 20.34 |
| 265 | 7-Aug 12:00 | 7-Aug 13:00 | 264.5 | 21.31 | 21.28 | 21.06 | 20.88 | 20.63 |
| 266 | 7-Aug 13:00 | 7-Aug 14:00 | 265.5 | 24.19 | 24.21 | 23.26 | 22.97 | 22.35 |
| 267 | 7-Aug 14:00 | 7-Aug 15:00 | 266.5 | 24.26 | 24.19 | 23.41 | 23.65 | 23.04 |
| 268 | 7-Aug 15:00 | 7-Aug 16:00 | 267.5 | 23.50 | 23.50 | 22.98 | 23.14 | 22.77 |
| 269 | 7-Aug 16:00 | 7-Aug 17:00 | 268.5 | 24.36 | 24.36 | 23.58 | 23.80 | 23.40 |
| 270 | 7-Aug 17:00 | 7-Aug 18:00 | 269.5 | 23.79 | 23.74 | 23.16 | 23.36 | 23.05 |
| 271 | 7-Aug 18:00 | 7-Aug 19:00 | 270.5 | 23.69 | 23.55 | 23.00 | 23.15 | 22.93 |
| 272 | 7-Aug 19:00 | 7-Aug 20:00 | 271.5 | 21.49 | 21.11 | 20.73 | 20.76 | 20.63 |
| 273 | 7-Aug 20:00 | 7-Aug 21:00 | 272.5 | 16.06 | 15.78 | 16.30 | 16.57 | 16.91 |
| 274 | 7-Aug 21:00 | 7-Aug 22:00 | 273.5 | 12.19 | 12.15 | 13.52 | 14.06 | 14.59 |
| 275 | 7-Aug 22:00 | 7-Aug 23:00 | 274.5 | 10.73 | 10.73 | 12.21 | 12.76 | 13.45 |
| 276 | 7-Aug 23:00 | 8-Aug 00:00 | 275.5 | 9.74 | 9.70 | 11.14 | 11.79 | 12.60 |
| 277 | 8-Aug 00:00 | 8-Aug 01:00 | 276.5 | 9.28 | 9.23 | 10.40 | 11.06 | 11.91 |
| 278 | 8-Aug 01:00 | 8-Aug 02:00 | 277.5 | 8.66 | 8.73 | 9.98 | 10.45 | 11.06 |
| 279 | 8-Aug 02:00 | 8-Aug 03:00 | 278.5 | 8.18 | 8.18 | 9.39 | 9.83 | 10.28 |
| 280 | 8-Aug 03:00 | 8-Aug 04:00 | 279.5 | 7.65 | 7.63 | 8.73 | 9.13 | 9.56 |
| 281 | 8-Aug 04:00 | 8-Aug 05:00 | 280.5 | 7.06 | 7.02 | 8.10 | 8.46 | 8.83 |
| 282 | 8-Aug 05:00 | 8-Aug 06:00 | 281.5 | 8.26 | 8.04 | 8.38 | 8.67 | 8.95 |
| 283 | 8-Aug 06:00 | 8-Aug 07:00 | 282.5 | 10.72 | 10.49 | 10.48 | 10.48 | 10.33 |
| 284 | 8-Aug 07:00 | 8-Aug 08:00 | 283.5 | 13.00 | 12.83 | 12.70 | 12.64 | 12.51 |
| 285 | 8-Aug 08:00 | 8-Aug 09:00 | 284.5 | 15.13 | 14.84 | 14.40 | 14.20 | 13.95 |
| 286 | 8-Aug 09:00 | 8-Aug 10:00 | 285.5 | 17.96 | 18.01 | 17.36 | 17.12 | 16.73 |
| 287 | 8-Aug 10:00 | 8-Aug 11:00 | 286.5 | 20.56 | 20.37 | 19.83 | 19.38 | 18.90 |
| 288 | 8-Aug 11:00 | 8-Aug 12:00 | 287.5 | 22.18 | 22.24 | 21.52 | 21.05 | 20.63 |
| 289 | 8-Aug 12:00 | 8-Aug 13:00 | 288.5 | 23.56 | 23.44 | 22.83 | 22.43 | 22.06 |
| 290 | 8-Aug 13:00 | 8-Aug 14:00 | 289.5 | 25.16 | 25.04 | 24.17 | 23.93 | 23.44 |
| 291 | 8-Aug 14:00 | 8-Aug 15:00 | 290.5 | 25.79 | 25.75 | 25.08 | 25.18 | 24.78 |
| 292 | 8-Aug 15:00 | 8-Aug 16:00 | 291.5 | 25.46 | 25.59 | 25.18 | 25.39 | 25.07 |
| 293 | 8-Aug 16:00 | 8-Aug 17:00 | 292.5 | 25.42 | 25.56 | 25.24 | 25.53 | 25.17 |
| 294 | 8-Aug 17:00 | 8-Aug 18:00 | 293.5 | 24.68 | 24.99 | 24.93 | 25.10 | 24.89 |
| 295 | 8-Aug 18:00 | 8-Aug 19:00 | 294.5 | 24.16 | 24.31 | 24.37 | 24.47 | 24.22 |
| 296 | 8-Aug 19:00 | 8-Aug 20:00 | 295.5 | 21.87 | 21.52 | 21.50 | 21.59 | 21.63 |
| 297 | 8-Aug 20:00 | 8-Aug 21:00 | 296.5 | 19.51 | 19.28 | 19.53 | 19.69 | 19.80 |
| 298 | 8-Aug 21:00 | 8-Aug 22:00 | 297.5 | 19.26 | 19.53 | 20.05 | 20.22 | 20.39 |
| 299 | 8-Aug 22:00 | 8-Aug 23:00 | 298.5 | 19.60 | 19.84 | 20.29 | 20.39 | 20.49 |
| 300 | 8-Aug 23:00 | 9-Aug 00:00 | 299.5 | 18.38 | 18.14 | 18.28 | 18.29 | 18.25 |

Table A.2 Dry-bulb temperature in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Dry-bulb temperature (°C) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 301 | 9-Aug 00:00 | 9-Aug 01:00 | 300.5 | 17.91 | 17.68 | 17.69 | 17.67 | 17.61 |
| 302 | 9-Aug 01:00 | 9-Aug 02:00 | 301.5 | 17.25 | 16.98 | 16.86 | 16.85 | 16.79 |
| 303 | 9-Aug 02:00 | 9-Aug 03:00 | 302.5 | 17.02 | 16.79 | 16.70 | 16.69 | 16.62 |
| 304 | 9-Aug 03:00 | 9-Aug 04:00 | 303.5 | 17.25 | 17.09 | 17.06 | 17.05 | 17.00 |
| 305 | 9-Aug 04:00 | 9-Aug 05:00 | 304.5 | 16.87 | 16.75 | 16.81 | 16.84 | 16.82 |
| 306 | 9-Aug 05:00 | 9-Aug 06:00 | 305.5 | 16.56 | 16.44 | 16.54 | 16.61 | 16.60 |
| 307 | 9-Aug 06:00 | 9-Aug 07:00 | 306.5 | 15.94 | 15.86 | 16.08 | 16.21 | 16.27 |
| 308 | 9-Aug 07:00 | 9-Aug 08:00 | 307.5 | 17.13 | 16.98 | 16.96 | 16.96 | 16.83 |
| 309 | 9-Aug 08:00 | 9-Aug 09:00 | 308.5 | 17.98 | 17.69 | 17.81 | 17.74 | 17.63 |
| 310 | 9-Aug 09:00 | 9-Aug 10:00 | 309.5 | 15.68 | 15.58 | 15.70 | 15.66 | 15.53 |
| 311 | 9-Aug 10:00 | 9-Aug 11:00 | 310.5 | 15.73 | 15.67 | 15.59 | 15.52 | 15.25 |
| 312 | 9-Aug 11:00 | 9-Aug 12:00 | 311.5 | 16.22 | 15.95 | 15.82 | 15.71 | 15.45 |
| 313 | 9-Aug 12:00 | 9-Aug 13:00 | 312.5 | 15.39 | 15.17 | 15.10 | 15.01 | 14.84 |
| 314 | 9-Aug 13:00 | 9-Aug 14:00 | 313.5 | 15.54 | 15.26 | 15.09 | 14.96 | 14.70 |
| 315 | 9-Aug 14:00 | 9-Aug 15:00 | 314.5 | 16.10 | 15.81 | 15.56 | 15.44 | 15.12 |
| 316 | 9-Aug 15:00 | 9-Aug 16:00 | 315.5 | 16.11 | 15.82 | 15.69 | 15.59 | 15.33 |
| 317 | 9-Aug 16:00 | 9-Aug 17:00 | 316.5 | 15.33 | 15.12 | 15.05 | 14.96 | 14.79 |
| 318 | 9-Aug 17:00 | 9-Aug 18:00 | 317.5 | 16.45 | 16.21 | 16.12 | 16.05 | 15.85 |
| 319 | 9-Aug 18:00 | 9-Aug 19:00 | 318.5 | 15.19 | 14.94 | 15.12 | 15.15 | 15.02 |
| 320 | 9-Aug 19:00 | 9-Aug 20:00 | 319.5 | 16.26 | 15.98 | 15.99 | 16.01 | 15.82 |
| 321 | 9-Aug 20:00 | 9-Aug 21:00 | 320.5 | 11.50 | 11.22 | 11.99 | 12.17 | 12.45 |
| 322 | 9-Aug 21:00 | 9-Aug 22:00 | 321.5 | 8.47 | 8.58 | 9.78 | 10.19 | 10.61 |
| 323 | 9-Aug 22:00 | 9-Aug 23:00 | 322.5 | 6.62 | 6.75 | 8.14 | 8.66 | 9.32 |
| 324 | 9-Aug 23:00 | 10-Aug 00:00 | 323.5 | 5.64 | 5.75 | 7.07 | 7.51 | 8.05 |
| 325 | 10-Aug 00:00 | 10-Aug 01:00 | 324.5 | 4.82 | 4.95 | 6.22 | 6.59 | 7.16 |
| 326 | 10-Aug 01:00 | 10-Aug 02:00 | 325.5 | 4.25 | 4.35 | 5.68 | 6.17 | 6.72 |
| 327 | 10-Aug 02:00 | 10-Aug 03:00 | 326.5 | 3.94 | 4.02 | 5.46 | 5.96 | 6.44 |
| 328 | 10-Aug 03:00 | 10-Aug 04:00 | 327.5 | 3.60 | 3.65 | 4.51 | 4.89 | 5.36 |
| 329 | 10-Aug 04:00 | 10-Aug 05:00 | 328.5 | 3.65 | 3.66 | 4.56 | 4.85 | 5.21 |
| 330 | 10-Aug 05:00 | 10-Aug 06:00 | 329.5 | 2.50 | 2.53 | 3.65 | 4.05 | 4.89 |
| 331 | 10-Aug 06:00 | 10-Aug 07:00 | 330.5 | 2.92 | 2.93 | 3.74 | 4.13 | 6.86 |
| 332 | 10-Aug 07:00 | 10-Aug 08:00 | 331.5 | 7.54 | 7.47 | 7.79 | 7.81 | 13.39 |
| 333 | 10-Aug 08:00 | 10-Aug 09:00 | 332.5 | 10.51 | 10.67 | 10.94 | 10.85 | 15.63 |

Table A.3 Wet-bulb temperature in air at various heights

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Wet-bulb temperature (°C) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 1 | 27-Jul 12:00 | 27-Jul 13:00 | 0.5 | 17.70 | 16.90 | 16.29 | 16.17 | 15.78 |
| 2 | 27-Jul 13:00 | 27-Jul 14:00 | 1.5 | n.m. | n.m. | n.m. | n.m. | n.m. |
| 3 | 27-Jul 14:00 | 27-Jul 15:00 | 2.5 | 19.00 | 17.98 | 17.12 | 17.06 | 16.78 |
| 4 | 27-Jul 15:00 | 27-Jul 16:00 | 3.5 | 19.37 | 17.80 | 16.85 | 16.86 | 16.45 |
| 5 | 27-Jul 16:00 | 27-Jul 17:00 | 4.5 | 19.77 | 18.27 | 17.22 | 17.15 | 16.72 |
| 6 | 27-Jul 17:00 | 27-Jul 18:00 | 5.5 | 19.16 | 17.81 | 17.04 | 16.96 | 16.63 |
| 7 | 27-Jul 18:00 | 27-Jul 19:00 | 6.5 | 19.54 | 18.07 | 17.13 | 17.06 | 16.64 |
| 8 | 27-Jul 19:00 | 27-Jul 20:00 | 7.5 | 19.88 | 18.73 | 18.22 | 18.19 | 17.74 |
| 9 | 27-Jul 20:00 | 27-Jul 21:00 | 8.5 | 17.65 | 17.11 | 17.14 | 17.26 | 17.10 |
| 10 | 27-Jul 21:00 | 27-Jul 22:00 | 9.5 | 15.80 | 15.49 | 15.67 | 15.87 | 15.92 |
| 11 | 27-Jul 22:00 | 27-Jul 23:00 | 10.5 | n.m. | n.m. | n.m. | n.m. | n.m. |
| 12 | 27-Jul 23:00 | 28-Jul 00:00 | 11.5 | 13.22 | 13.06 | 13.57 | 14.04 | 14.36 |
| 13 | 28-Jul 00:00 | 28-Jul 01:00 | 12.5 | 13.06 | 12.87 | 13.22 | 13.55 | 13.90 |
| 14 | 28-Jul 01:00 | 28-Jul 02:00 | 13.5 | 12.26 | 12.13 | 12.68 | 12.93 | 13.28 |
| 15 | 28-Jul 02:00 | 28-Jul 03:00 | 14.5 | 11.50 | 11.42 | 11.94 | 12.15 | 12.58 |
| 16 | 28-Jul 03:00 | 28-Jul 04:00 | 15.5 | 10.76 | 10.59 | 11.25 | 11.46 | 11.75 |
| 17 | 28-Jul 04:00 | 28-Jul 05:00 | 16.5 | 11.22 | 11.00 | 11.33 | 11.40 | 11.50 |
| 18 | 28-Jul 05:00 | 28-Jul 06:00 | 17.5 | 11.59 | 11.28 | 11.47 | 11.48 | 11.57 |
| 19 | 28-Jul 06:00 | 28-Jul 07:00 | 18.5 | 13.21 | 12.86 | 12.81 | 12.74 | 12.61 |
| 20 | 28-Jul 07:00 | 28-Jul 08:00 | 19.5 | 14.13 | 13.80 | 13.70 | 13.53 | 13.35 |
| 21 | 28-Jul 08:00 | 28-Jul 09:00 | 20.5 | 14.85 | 14.54 | 14.41 | 14.23 | 14.07 |
| 22 | 28-Jul 09:00 | 28-Jul 10:00 | 21.5 | 15.85 | 15.60 | 15.27 | 15.03 | 14.86 |
| 23 | 28-Jul 10:00 | 28-Jul 11:00 | 22.5 | 17.72 | 17.30 | 16.84 | 16.64 | 16.35 |
| 24 | 28-Jul 11:00 | 28-Jul 12:00 | 23.5 | 18.98 | 18.33 | 17.65 | 17.53 | 17.15 |
| 25 | 28-Jul 12:00 | 28-Jul 13:00 | 24.5 | 19.16 | 18.04 | 17.20 | 17.06 | 16.58 |
| 26 | 28-Jul 13:00 | 28-Jul 14:00 | 25.5 | 21.01 | 19.41 | 17.96 | 17.74 | 17.23 |
| 27 | 28-Jul 14:00 | 28-Jul 15:00 | 26.5 | 20.75 | 19.42 | 18.34 | 18.26 | 17.77 |
| 28 | 28-Jul 15:00 | 28-Jul 16:00 | 27.5 | 20.27 | 18.75 | 17.86 | 17.72 | 17.32 |
| 29 | 28-Jul 16:00 | 28-Jul 17:00 | 28.5 | 18.77 | 18.15 | 17.96 | 17.94 | 17.70 |
| 30 | 28-Jul 17:00 | 28-Jul 18:00 | 29.5 | 21.69 | 20.92 | 19.67 | 19.48 | 19.22 |
| 31 | 28-Jul 18:00 | 28-Jul 19:00 | 30.5 | 20.37 | 19.62 | 19.11 | 19.03 | 18.81 |
| 32 | 28-Jul 19:00 | 28-Jul 20:00 | 31.5 | 20.41 | 19.81 | 19.25 | 19.15 | 18.97 |
| 33 | 28-Jul 20:00 | 28-Jul 21:00 | 32.5 | 18.96 | 18.42 | 18.37 | 18.48 | 18.36 |
| 34 | 28-Jul 21:00 | 28-Jul 22:00 | 33.5 | 15.10 | 14.98 | 15.82 | 16.41 | 16.79 |
| 35 | 28-Jul 22:00 | 28-Jul 23:00 | 34.5 | 13.93 | 13.64 | 14.41 | 15.06 | 15.68 |
| 36 | 28-Jul 23:00 | 29-Jul 00:00 | 35.5 | 13.41 | 13.34 | 14.24 | 14.53 | 14.86 |
| 37 | 29-Jul 00:00 | 29-Jul 01:00 | 36.5 | 12.63 | 12.46 | 13.16 | 13.49 | 14.00 |
| 38 | 29-Jul 01:00 | 29-Jul 02:00 | 37.5 | 11.37 | 11.15 | 12.10 | 12.49 | 13.00 |
| 39 | 29-Jul 02:00 | 29-Jul 03:00 | 38.5 | 10.48 | 10.32 | 11.22 | 11.59 | 12.16 |
| 40 | 29-Jul 03:00 | 29-Jul 04:00 | 39.5 | 9.51 | 9.47 | 10.39 | 10.84 | 11.31 |
| 41 | 29-Jul 04:00 | 29-Jul 05:00 | 40.5 | 8.85 | 8.71 | 9.59 | 10.12 | 10.64 |
| 42 | 29-Jul 05:00 | 29-Jul 06:00 | 41.5 | 8.33 | 8.15 | 9.04 | 9.41 | 9.86 |
| 43 | 29-Jul 06:00 | 29-Jul 07:00 | 42.5 | 8.91 | 8.58 | 9.13 | 9.51 | 9.85 |
| 44 | 29-Jul 07:00 | 29-Jul 08:00 | 43.5 | 12.58 | 12.52 | 12.54 | 12.51 | 12.33 |
| 45 | 29-Jul 08:00 | 29-Jul 09:00 | 44.5 | 16.16 | 16.20 | 15.86 | 15.60 | 15.46 |
| 46 | 29-Jul 09:00 | 29-Jul 10:00 | 45.5 | 17.58 | 17.37 | 16.98 | 16.71 | 16.40 |
| 47 | 29-Jul 10:00 | 29-Jul 11:00 | 46.5 | 18.61 | 18.24 | 17.82 | 17.69 | 17.29 |
| 48 | 29-Jul 11:00 | 29-Jul 12:00 | 47.5 | 19.68 | 19.12 | 18.57 | 18.43 | 18.04 |
| 49 | 29-Jul 12:00 | 29-Jul 13:00 | 48.5 | 20.26 | 19.57 | 19.02 | 18.90 | 18.56 |
| 50 | 29-Jul 13:00 | 29-Jul 14:00 | 49.5 | 20.12 | 19.49 | 19.00 | 18.94 | 18.59 |

n.m.: not measured

Table A.3 Wet-bulb temperature in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Wet-bulb temperature (°C) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 51 | 29-Jul 14:00 | 29-Jul 15:00 | 50.5 | 20.91 | 20.01 | 19.38 | 19.34 | 18.94 |
| 52 | 29-Jul 15:00 | 29-Jul 16:00 | 51.5 | 20.31 | 19.59 | 19.11 | 19.05 | 18.77 |
| 53 | 29-Jul 16:00 | 29-Jul 17:00 | 52.5 | 20.55 | 19.95 | 19.45 | 19.38 | 19.11 |
| 54 | 29-Jul 17:00 | 29-Jul 18:00 | 53.5 | 20.87 | 20.26 | 19.86 | 19.80 | 19.57 |
| 55 | 29-Jul 18:00 | 29-Jul 19:00 | 54.5 | 20.22 | 19.80 | 19.59 | 19.60 | 19.45 |
| 56 | 29-Jul 19:00 | 29-Jul 20:00 | 55.5 | 20.42 | 19.92 | 19.73 | 19.75 | 19.55 |
| 57 | 29-Jul 20:00 | 29-Jul 21:00 | 56.5 | 20.39 | 20.06 | 19.96 | 20.02 | 19.79 |
| 58 | 29-Jul 21:00 | 29-Jul 22:00 | 57.5 | 19.45 | 19.18 | 19.20 | 19.27 | 19.21 |
| 59 | 29-Jul 22:00 | 29-Jul 23:00 | 58.5 | 18.36 | 18.12 | 18.24 | 18.39 | 18.41 |
| 60 | 29-Jul 23:00 | 30-Jul 00:00 | 59.5 | 16.17 | 16.11 | 16.84 | 17.19 | 17.44 |
| 61 | 30-Jul 00:00 | 30-Jul 01:00 | 60.5 | 15.33 | 15.21 | 15.85 | 16.10 | 16.47 |
| 62 | 30-Jul 01:00 | 30-Jul 02:00 | 61.5 | 14.04 | 13.97 | 14.81 | 15.11 | 15.57 |
| 63 | 30-Jul 02:00 | 30-Jul 03:00 | 62.5 | 13.47 | 13.33 | 14.08 | 14.34 | 14.75 |
| 64 | 30-Jul 03:00 | 30-Jul 04:00 | 63.5 | 12.85 | 12.70 | 13.45 | 13.73 | 14.15 |
| 65 | 30-Jul 04:00 | 30-Jul 05:00 | 64.5 | 12.08 | 11.94 | 12.71 | 13.07 | 13.51 |
| 66 | 30-Jul 05:00 | 30-Jul 06:00 | 65.5 | 11.94 | 11.77 | 12.31 | 12.54 | 12.84 |
| 67 | 30-Jul 06:00 | 30-Jul 07:00 | 66.5 | 12.84 | 12.53 | 12.87 | 13.00 | 13.05 |
| 68 | 30-Jul 07:00 | 30-Jul 08:00 | 67.5 | 15.34 | 15.01 | 14.96 | 14.90 | 14.71 |
| 69 | 30-Jul 08:00 | 30-Jul 09:00 | 68.5 | 16.98 | 16.60 | 16.49 | 16.35 | 16.14 |
| 70 | 30-Jul 09:00 | 30-Jul 10:00 | 69.5 | 17.57 | 17.20 | 17.12 | 16.90 | 16.71 |
| 71 | 30-Jul 10:00 | 30-Jul 11:00 | 70.5 | 17.92 | 17.49 | 17.41 | 17.24 | 17.02 |
| 72 | 30-Jul 11:00 | 30-Jul 12:00 | 71.5 | 17.99 | 17.68 | 17.40 | 17.21 | 17.08 |
| 73 | 30-Jul 12:00 | 30-Jul 13:00 | 72.5 | 18.86 | 18.37 | 18.12 | 17.90 | 17.73 |
| 74 | 30-Jul 13:00 | 30-Jul 14:00 | 73.5 | 20.01 | 19.26 | 18.85 | 18.59 | 18.31 |
| 75 | 30-Jul 14:00 | 30-Jul 15:00 | 74.5 | 19.37 | 18.80 | 18.66 | 18.56 | 18.33 |
| 76 | 30-Jul 15:00 | 30-Jul 16:00 | 75.5 | 19.57 | 18.94 | 18.61 | 18.52 | 18.26 |
| 77 | 30-Jul 16:00 | 30-Jul 17:00 | 76.5 | 19.92 | 19.40 | 19.11 | 19.00 | 18.71 |
| 78 | 30-Jul 17:00 | 30-Jul 18:00 | 77.5 | 20.24 | 19.60 | 19.23 | 19.13 | 18.86 |
| 79 | 30-Jul 18:00 | 30-Jul 19:00 | 78.5 | 20.37 | 19.69 | 19.29 | 19.23 | 19.00 |
| 80 | 30-Jul 19:00 | 30-Jul 20:00 | 79.5 | 20.36 | 19.86 | 19.30 | 19.15 | 18.98 |
| 81 | 30-Jul 20:00 | 30-Jul 21:00 | 80.5 | 18.94 | 18.55 | 18.60 | 18.70 | 18.63 |
| 82 | 30-Jul 21:00 | 30-Jul 22:00 | 81.5 | 15.97 | 15.90 | 16.63 | 17.07 | 17.30 |
| 83 | 30-Jul 22:00 | 30-Jul 23:00 | 82.5 | 14.23 | 14.20 | 15.19 | 15.62 | 16.00 |
| 84 | 30-Jul 23:00 | 31-Jul 00:00 | 83.5 | 13.49 | 13.25 | 14.21 | 14.68 | 15.28 |
| 85 | 31-Jul 00:00 | 31-Jul 01:00 | 84.5 | 13.17 | 13.08 | 14.03 | 14.48 | 15.00 |
| 86 | 31-Jul 01:00 | 31-Jul 02:00 | 85.5 | 12.40 | 12.24 | 13.15 | 13.63 | 14.19 |
| 87 | 31-Jul 02:00 | 31-Jul 03:00 | 86.5 | 11.98 | 11.65 | 12.34 | 12.81 | 13.47 |
| 88 | 31-Jul 03:00 | 31-Jul 04:00 | 87.5 | 11.88 | 11.60 | 12.20 | 12.61 | 13.06 |
| 89 | 31-Jul 04:00 | 31-Jul 05:00 | 88.5 | 13.09 | 12.79 | 12.93 | 13.03 | 13.09 |
| 90 | 31-Jul 05:00 | 31-Jul 06:00 | 89.5 | 12.29 | 11.98 | 12.23 | 12.38 | 12.42 |
| 91 | 31-Jul 06:00 | 31-Jul 07:00 | 90.5 | 12.29 | 11.92 | 12.02 | 12.14 | 12.10 |
| 92 | 31-Jul 07:00 | 31-Jul 08:00 | 91.5 | 14.66 | 14.41 | 14.26 | 14.23 | 14.04 |
| 93 | 31-Jul 08:00 | 31-Jul 09:00 | 92.5 | 16.99 | 16.73 | 16.34 | 16.17 | 16.04 |
| 94 | 31-Jul 09:00 | 31-Jul 10:00 | 93.5 | 18.49 | 17.95 | 17.33 | 17.12 | 16.92 |
| 95 | 31-Jul 10:00 | 31-Jul 11:00 | 94.5 | 20.52 | 19.83 | 19.12 | 18.78 | 18.54 |
| 96 | 31-Jul 11:00 | 31-Jul 12:00 | 95.5 | 22.32 | 21.46 | 20.55 | 20.15 | 19.87 |
| 97 | 31-Jul 12:00 | 31-Jul 13:00 | 96.5 | 23.05 | 22.03 | 21.10 | 20.82 | 20.48 |
| 98 | 31-Jul 13:00 | 31-Jul 14:00 | 97.5 | 22.23 | 21.03 | 20.43 | 20.26 | 19.90 |
| 99 | 31-Jul 14:00 | 31-Jul 15:00 | 98.5 | 22.58 | 21.32 | 20.67 | 20.51 | 20.15 |
| 100 | 31-Jul 15:00 | 31-Jul 16:00 | 99.5 | 22.55 | 21.31 | 20.73 | 20.58 | 20.23 |

Table A.3 Wet-bulb temperature in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Wet-bulb temperature (°C) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 51 | 29-Jul 14:00 | 29-Jul 15:00 | 50.5 | 20.91 | 20.01 | 19.38 | 19.34 | 18.94 |
| 52 | 29-Jul 15:00 | 29-Jul 16:00 | 51.5 | 20.31 | 19.59 | 19.11 | 19.05 | 18.77 |
| 53 | 29-Jul 16:00 | 29-Jul 17:00 | 52.5 | 20.55 | 19.95 | 19.45 | 19.38 | 19.11 |
| 54 | 29-Jul 17:00 | 29-Jul 18:00 | 53.5 | 20.87 | 20.26 | 19.86 | 19.80 | 19.57 |
| 55 | 29-Jul 18:00 | 29-Jul 19:00 | 54.5 | 20.22 | 19.80 | 19.59 | 19.60 | 19.45 |
| 56 | 29-Jul 19:00 | 29-Jul 20:00 | 55.5 | 20.42 | 19.92 | 19.73 | 19.75 | 19.55 |
| 57 | 29-Jul 20:00 | 29-Jul 21:00 | 56.5 | 20.39 | 20.06 | 19.96 | 20.02 | 19.79 |
| 58 | 29-Jul 21:00 | 29-Jul 22:00 | 57.5 | 19.45 | 19.18 | 19.20 | 19.27 | 19.21 |
| 59 | 29-Jul 22:00 | 29-Jul 23:00 | 58.5 | 18.36 | 18.12 | 18.24 | 18.39 | 18.41 |
| 60 | 29-Jul 23:00 | 30-Jul 00:00 | 59.5 | 16.17 | 16.11 | 16.84 | 17.19 | 17.44 |
| 61 | 30-Jul 00:00 | 30-Jul 01:00 | 60.5 | 15.33 | 15.21 | 15.85 | 16.10 | 16.47 |
| 62 | 30-Jul 01:00 | 30-Jul 02:00 | 61.5 | 14.04 | 13.97 | 14.81 | 15.11 | 15.57 |
| 63 | 30-Jul 02:00 | 30-Jul 03:00 | 62.5 | 13.47 | 13.33 | 14.08 | 14.34 | 14.75 |
| 64 | 30-Jul 03:00 | 30-Jul 04:00 | 63.5 | 12.85 | 12.70 | 13.45 | 13.73 | 14.15 |
| 65 | 30-Jul 04:00 | 30-Jul 05:00 | 64.5 | 12.08 | 11.94 | 12.71 | 13.07 | 13.51 |
| 66 | 30-Jul 05:00 | 30-Jul 06:00 | 65.5 | 11.94 | 11.77 | 12.31 | 12.54 | 12.84 |
| 67 | 30-Jul 06:00 | 30-Jul 07:00 | 66.5 | 12.84 | 12.53 | 12.87 | 13.00 | 13.05 |
| 68 | 30-Jul 07:00 | 30-Jul 08:00 | 67.5 | 15.34 | 15.01 | 14.96 | 14.90 | 14.71 |
| 69 | 30-Jul 08:00 | 30-Jul 09:00 | 68.5 | 16.98 | 16.60 | 16.49 | 16.35 | 16.14 |
| 70 | 30-Jul 09:00 | 30-Jul 10:00 | 69.5 | 17.57 | 17.20 | 17.12 | 16.90 | 16.71 |
| 71 | 30-Jul 10:00 | 30-Jul 11:00 | 70.5 | 17.92 | 17.49 | 17.41 | 17.24 | 17.02 |
| 72 | 30-Jul 11:00 | 30-Jul 12:00 | 71.5 | 17.99 | 17.68 | 17.40 | 17.21 | 17.08 |
| 73 | 30-Jul 12:00 | 30-Jul 13:00 | 72.5 | 18.86 | 18.37 | 18.12 | 17.90 | 17.73 |
| 74 | 30-Jul 13:00 | 30-Jul 14:00 | 73.5 | 20.01 | 19.26 | 18.85 | 18.59 | 18.31 |
| 75 | 30-Jul 14:00 | 30-Jul 15:00 | 74.5 | 19.37 | 18.80 | 18.66 | 18.56 | 18.33 |
| 76 | 30-Jul 15:00 | 30-Jul 16:00 | 75.5 | 19.57 | 18.94 | 18.61 | 18.52 | 18.26 |
| 77 | 30-Jul 16:00 | 30-Jul 17:00 | 76.5 | 19.92 | 19.40 | 19.11 | 19.00 | 18.71 |
| 78 | 30-Jul 17:00 | 30-Jul 18:00 | 77.5 | 20.24 | 19.60 | 19.23 | 19.13 | 18.86 |
| 79 | 30-Jul 18:00 | 30-Jul 19:00 | 78.5 | 20.37 | 19.69 | 19.29 | 19.23 | 19.00 |
| 80 | 30-Jul 19:00 | 30-Jul 20:00 | 79.5 | 20.36 | 19.86 | 19.30 | 19.15 | 18.98 |
| 81 | 30-Jul 20:00 | 30-Jul 21:00 | 80.5 | 18.94 | 18.55 | 18.60 | 18.70 | 18.63 |
| 82 | 30-Jul 21:00 | 30-Jul 22:00 | 81.5 | 15.97 | 15.90 | 16.63 | 17.07 | 17.30 |
| 83 | 30-Jul 22:00 | 30-Jul 23:00 | 82.5 | 14.23 | 14.20 | 15.19 | 15.62 | 16.00 |
| 84 | 30-Jul 23:00 | 31-Jul 00:00 | 83.5 | 13.49 | 13.25 | 14.21 | 14.68 | 15.28 |
| 85 | 31-Jul 00:00 | 31-Jul 01:00 | 84.5 | 13.17 | 13.08 | 14.03 | 14.48 | 15.00 |
| 86 | 31-Jul 01:00 | 31-Jul 02:00 | 85.5 | 12.40 | 12.24 | 13.15 | 13.63 | 14.19 |
| 87 | 31-Jul 02:00 | 31-Jul 03:00 | 86.5 | 11.98 | 11.65 | 12.34 | 12.81 | 13.47 |
| 88 | 31-Jul 03:00 | 31-Jul 04:00 | 87.5 | 11.88 | 11.60 | 12.20 | 12.61 | 13.06 |
| 89 | 31-Jul 04:00 | 31-Jul 05:00 | 88.5 | 13.09 | 12.79 | 12.93 | 13.03 | 13.09 |
| 90 | 31-Jul 05:00 | 31-Jul 06:00 | 89.5 | 12.29 | 11.98 | 12.23 | 12.38 | 12.42 |
| 91 | 31-Jul 06:00 | 31-Jul 07:00 | 90.5 | 12.29 | 11.92 | 12.02 | 12.14 | 12.10 |
| 92 | 31-Jul 07:00 | 31-Jul 08:00 | 91.5 | 14.66 | 14.41 | 14.26 | 14.23 | 14.04 |
| 93 | 31-Jul 08:00 | 31-Jul 09:00 | 92.5 | 16.99 | 16.73 | 16.34 | 16.17 | 16.04 |
| 94 | 31-Jul 09:00 | 31-Jul 10:00 | 93.5 | 18.49 | 17.95 | 17.33 | 17.12 | 16.92 |
| 95 | 31-Jul 10:00 | 31-Jul 11:00 | 94.5 | 20.52 | 19.83 | 19.12 | 18.78 | 18.54 |
| 96 | 31-Jul 11:00 | 31-Jul 12:00 | 95.5 | 22.32 | 21.46 | 20.55 | 20.15 | 19.87 |
| 97 | 31-Jul 12:00 | 31-Jul 13:00 | 96.5 | 23.05 | 22.03 | 21.10 | 20.82 | 20.48 |
| 98 | 31-Jul 13:00 | 31-Jul 14:00 | 97.5 | 22.23 | 21.03 | 20.43 | 20.26 | 19.90 |
| 99 | 31-Jul 14:00 | 31-Jul 15:00 | 98.5 | 22.58 | 21.32 | 20.67 | 20.51 | 20.15 |
| 100 | 31-Jul 15:00 | 31-Jul 16:00 | 99.5 | 22.55 | 21.31 | 20.73 | 20.58 | 20.23 |

Table A.3 Wet-bulb temperature in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Wet-bulb temperature (°C) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 101 | 31-Jul 16:00 | 31-Jul 17:00 | 100.5 | 22.18 | 21.09 | 20.65 | 20.46 | 20.15 |
| 102 | 31-Jul 17:00 | 31-Jul 18:00 | 101.5 | 22.15 | 21.05 | 20.76 | 20.63 | 20.38 |
| 103 | 31-Jul 18:00 | 31-Jul 19:00 | 102.5 | 22.01 | 21.04 | 20.77 | 20.69 | 20.48 |
| 104 | 31-Jul 19:00 | 31-Jul 20:00 | 103.5 | 22.20 | 21.46 | 21.20 | 21.09 | 20.77 |
| 105 | 31-Jul 20:00 | 31-Jul 21:00 | 104.5 | 19.96 | 19.64 | 19.87 | 20.07 | 20.07 |
| 106 | 31-Jul 21:00 | 31-Jul 22:00 | 105.5 | 17.29 | 17.18 | 17.88 | 18.34 | 18.66 |
| 107 | 31-Jul 22:00 | 31-Jul 23:00 | 106.5 | 15.97 | 15.89 | 16.65 | 17.15 | 17.60 |
| 108 | 31-Jul 23:00 | 1-Aug 00:00 | 107.5 | 15.02 | 14.96 | 15.81 | 16.22 | 16.58 |
| 109 | 1-Aug 00:00 | 1-Aug 01:00 | 108.5 | 14.32 | 14.25 | 15.10 | 15.50 | 15.88 |
| 110 | 1-Aug 01:00 | 1-Aug 02:00 | 109.5 | 13.91 | 13.78 | 14.61 | 14.95 | 15.33 |
| 111 | 1-Aug 02:00 | 1-Aug 03:00 | 110.5 | 13.18 | 13.07 | 13.93 | 14.27 | 14.70 |
| 112 | 1-Aug 03:00 | 1-Aug 04:00 | 111.5 | 12.64 | 12.44 | 13.27 | 13.69 | 14.24 |
| 113 | 1-Aug 04:00 | 1-Aug 05:00 | 112.5 | 12.97 | 12.83 | 13.41 | 13.65 | 14.02 |
| 114 | 1-Aug 05:00 | 1-Aug 06:00 | 113.5 | 14.51 | 14.28 | 14.45 | 14.50 | 14.55 |
| 115 | 1-Aug 06:00 | 1-Aug 07:00 | 114.5 | 15.31 | 15.13 | 15.30 | 15.36 | 15.48 |
| 116 | 1-Aug 07:00 | 1-Aug 08:00 | 115.5 | 17.58 | 17.73 | 17.78 | 17.61 | 17.52 |
| 117 | 1-Aug 08:00 | 1-Aug 09:00 | 116.5 | 19.75 | 19.56 | 19.18 | 18.88 | 18.72 |
| 118 | 1-Aug 09:00 | 1-Aug 10:00 | 117.5 | 20.84 | 20.46 | 19.91 | 19.63 | 19.43 |
| 119 | 1-Aug 10:00 | 1-Aug 11:00 | 118.5 | 22.11 | 21.46 | 20.78 | 20.55 | 20.33 |
| 120 | 1-Aug 11:00 | 1-Aug 12:00 | 119.5 | 22.35 | 21.56 | 20.96 | 20.75 | 20.45 |
| 121 | 1-Aug 12:00 | 1-Aug 13:00 | 120.5 | 23.05 | 21.99 | 21.29 | 21.07 | 20.70 |
| 122 | 1-Aug 13:00 | 1-Aug 14:00 | 121.5 | 21.40 | 20.67 | 20.44 | 20.32 | 20.10 |
| 123 | 1-Aug 14:00 | 1-Aug 15:00 | 122.5 | 20.77 | 20.35 | 20.13 | 20.13 | 19.89 |
| 124 | 1-Aug 15:00 | 1-Aug 16:00 | 123.5 | 21.13 | 20.82 | 20.57 | 20.52 | 20.34 |
| 125 | 1-Aug 16:00 | 1-Aug 17:00 | 124.5 | 22.54 | 22.03 | 21.30 | 21.10 | 20.95 |
| 126 | 1-Aug 17:00 | 1-Aug 18:00 | 125.5 | 22.78 | 22.08 | 21.52 | 21.36 | 21.14 |
| 127 | 1-Aug 18:00 | 1-Aug 19:00 | 126.5 | 22.66 | 22.21 | 21.76 | 21.67 | 21.55 |
| 128 | 1-Aug 19:00 | 1-Aug 20:00 | 127.5 | 21.85 | 21.35 | 21.10 | 21.07 | 20.92 |
| 129 | 1-Aug 20:00 | 1-Aug 21:00 | 128.5 | 20.57 | 20.27 | 20.28 | 20.34 | 20.24 |
| 130 | 1-Aug 21:00 | 1-Aug 22:00 | 129.5 | 19.00 | 18.80 | 19.06 | 19.27 | 19.35 |
| 131 | 1-Aug 22:00 | 1-Aug 23:00 | 130.5 | 18.85 | 18.63 | 18.79 | 18.92 | 18.95 |
| 132 | 1-Aug 23:00 | 2-Aug 00:00 | 131.5 | 19.12 | 18.94 | 18.98 | 18.98 | 18.94 |
| 133 | 2-Aug 00:00 | 2-Aug 01:00 | 132.5 | 17.88 | 17.68 | 17.69 | 17.69 | 17.64 |
| 134 | 2-Aug 01:00 | 2-Aug 02:00 | 133.5 | 16.89 | 16.70 | 16.69 | 16.69 | 16.63 |
| 135 | 2-Aug 02:00 | 2-Aug 03:00 | 134.5 | 15.74 | 15.51 | 15.48 | 15.48 | 15.42 |
| 136 | 2-Aug 03:00 | 2-Aug 04:00 | 135.5 | 15.46 | 15.24 | 15.20 | 15.21 | 15.14 |
| 137 | 2-Aug 04:00 | 2-Aug 05:00 | 136.5 | 14.93 | 14.68 | 14.65 | 14.66 | 14.58 |
| 138 | 2-Aug 05:00 | 2-Aug 06:00 | 137.5 | 14.08 | 13.80 | 13.75 | 13.76 | 13.67 |
| 139 | 2-Aug 06:00 | 2-Aug 07:00 | 138.5 | 13.71 | 13.36 | 13.29 | 13.28 | 13.16 |
| 140 | 2-Aug 07:00 | 2-Aug 08:00 | 139.5 | 13.93 | 13.51 | 13.36 | 13.32 | 13.19 |
| 141 | 2-Aug 08:00 | 2-Aug 09:00 | 140.5 | 13.89 | 13.47 | 13.30 | 13.26 | 13.13 |
| 142 | 2-Aug 09:00 | 2-Aug 10:00 | 141.5 | 13.85 | 13.45 | 13.14 | 13.06 | 12.91 |
| 143 | 2-Aug 10:00 | 2-Aug 11:00 | 142.5 | 14.58 | 14.14 | 13.82 | 13.71 | 13.50 |
| 144 | 2-Aug 11:00 | 2-Aug 12:00 | 143.5 | 15.62 | 15.11 | 14.58 | 14.38 | 14.13 |
| 145 | 2-Aug 12:00 | 2-Aug 13:00 | 144.5 | 17.12 | 16.27 | 15.40 | 15.15 | 14.90 |
| 146 | 2-Aug 13:00 | 2-Aug 14:00 | 145.5 | 17.96 | 17.05 | 16.12 | 15.94 | 15.58 |
| 147 | 2-Aug 14:00 | 2-Aug 15:00 | 146.5 | 18.52 | 17.40 | 16.24 | 16.01 | 15.67 |
| 148 | 2-Aug 15:00 | 2-Aug 16:00 | 147.5 | 18.91 | 17.68 | 16.57 | 16.35 | 16.02 |
| 149 | 2-Aug 16:00 | 2-Aug 17:00 | 148.5 | 19.20 | 17.98 | 16.70 | 16.41 | 16.10 |
| 150 | 2-Aug 17:00 | 2-Aug 18:00 | 149.5 | 19.86 | 18.52 | 17.00 | 16.68 | 16.35 |

Table A.3 Wet-bulb temperature in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Wet-bulb temperature (°C) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 151 | 2-Aug 18:00 | 2-Aug 19:00 | 150.5 | 19.58 | 18.45 | 17.25 | 16.97 | 16.69 |
| 152 | 2-Aug 19:00 | 2-Aug 20:00 | 151.5 | 18.98 | 18.12 | 17.84 | 17.81 | 17.50 |
| 153 | 2-Aug 20:00 | 2-Aug 21:00 | 152.5 | 17.73 | 17.09 | 17.02 | 17.06 | 16.81 |
| 154 | 2-Aug 21:00 | 2-Aug 22:00 | 153.5 | 15.28 | 14.94 | 15.18 | 15.39 | 15.50 |
| 155 | 2-Aug 22:00 | 2-Aug 23:00 | 154.5 | 13.68 | 13.49 | 14.07 | 14.45 | 14.74 |
| 156 | 2-Aug 23:00 | 3-Aug 00:00 | 155.5 | 12.75 | 12.54 | 13.22 | 13.57 | 13.99 |
| 157 | 3-Aug 00:00 | 3-Aug 01:00 | 156.5 | 14.05 | 13.77 | 14.00 | 14.05 | 14.08 |
| 158 | 3-Aug 01:00 | 3-Aug 02:00 | 157.5 | 12.54 | 12.39 | 13.07 | 13.29 | 13.54 |
| 159 | 3-Aug 02:00 | 3-Aug 03:00 | 158.5 | 13.33 | 13.09 | 13.38 | 13.40 | 13.47 |
| 160 | 3-Aug 03:00 | 3-Aug 04:00 | 159.5 | 13.55 | 13.23 | 13.43 | 13.44 | 13.47 |
| 161 | 3-Aug 04:00 | 3-Aug 05:00 | 160.5 | 12.74 | 12.47 | 12.75 | 12.81 | 12.91 |
| 162 | 3-Aug 05:00 | 3-Aug 06:00 | 161.5 | 13.04 | 12.68 | 12.81 | 12.85 | 12.84 |
| 163 | 3-Aug 06:00 | 3-Aug 07:00 | 162.5 | 14.10 | 13.76 | 13.74 | 13.69 | 13.56 |
| 164 | 3-Aug 07:00 | 3-Aug 08:00 | 163.5 | 15.35 | 15.03 | 14.90 | 14.82 | 14.63 |
| 165 | 3-Aug 08:00 | 3-Aug 09:00 | 164.5 | 16.98 | 16.56 | 16.03 | 15.81 | 15.66 |
| 166 | 3-Aug 09:00 | 3-Aug 10:00 | 165.5 | 18.11 | 17.52 | 16.92 | 16.65 | 16.40 |
| 167 | 3-Aug 10:00 | 3-Aug 11:00 | 166.5 | 19.06 | 18.50 | 17.88 | 17.51 | 17.24 |
| 168 | 3-Aug 11:00 | 3-Aug 12:00 | 167.5 | 19.93 | 19.23 | 18.41 | 18.16 | 17.85 |
| 169 | 3-Aug 12:00 | 3-Aug 13:00 | 168.5 | 20.72 | 19.87 | 18.92 | 18.62 | 18.22 |
| 170 | 3-Aug 13:00 | 3-Aug 14:00 | 169.5 | 19.39 | 18.53 | 18.01 | 17.87 | 17.49 |
| 171 | 3-Aug 14:00 | 3-Aug 15:00 | 170.5 | 20.31 | 19.08 | 18.09 | 17.96 | 17.48 |
| 172 | 3-Aug 15:00 | 3-Aug 16:00 | 171.5 | 20.74 | 19.36 | 18.42 | 18.26 | 17.84 |
| 173 | 3-Aug 16:00 | 3-Aug 17:00 | 172.5 | 20.67 | 19.24 | 18.47 | 18.31 | 17.95 |
| 174 | 3-Aug 17:00 | 3-Aug 18:00 | 173.5 | 20.31 | 18.90 | 18.21 | 18.08 | 17.78 |
| 175 | 3-Aug 18:00 | 3-Aug 19:00 | 174.5 | 19.97 | 18.68 | 18.13 | 18.01 | 17.74 |
| 176 | 3-Aug 19:00 | 3-Aug 20:00 | 175.5 | 19.50 | 18.39 | 17.84 | 17.72 | 17.41 |
| 177 | 3-Aug 20:00 | 3-Aug 21:00 | 176.5 | 17.15 | 16.58 | 16.74 | 16.89 | 16.83 |
| 178 | 3-Aug 21:00 | 3-Aug 22:00 | 177.5 | 14.34 | 14.06 | 14.74 | 15.13 | 15.41 |
| 179 | 3-Aug 22:00 | 3-Aug 23:00 | 178.5 | 13.39 | 13.16 | 13.78 | 14.16 | 14.41 |
| 180 | 3-Aug 23:00 | 4-Aug 00:00 | 179.5 | 14.18 | 13.85 | 14.06 | 14.28 | 14.37 |
| 181 | 4-Aug 00:00 | 4-Aug 01:00 | 180.5 | 13.85 | 13.65 | 14.02 | 14.28 | 14.42 |
| 182 | 4-Aug 01:00 | 4-Aug 02:00 | 181.5 | 14.45 | 14.13 | 14.31 | 14.36 | 14.38 |
| 183 | 4-Aug 02:00 | 4-Aug 03:00 | 182.5 | 15.60 | 15.27 | 15.24 | 15.16 | 15.09 |
| 184 | 4-Aug 03:00 | 4-Aug 04:00 | 183.5 | 16.15 | 15.84 | 15.71 | 15.67 | 15.61 |
| 185 | 4-Aug 04:00 | 4-Aug 05:00 | 184.5 | 16.08 | 15.70 | 15.62 | 15.66 | 15.51 |
| 186 | 4-Aug 05:00 | 4-Aug 06:00 | 185.5 | 16.25 | 15.89 | 15.82 | 15.86 | 15.71 |
| 187 | 4-Aug 06:00 | 4-Aug 07:00 | 186.5 | 16.42 | 16.09 | 15.97 | 15.87 | 15.80 |
| 188 | 4-Aug 07:00 | 4-Aug 08:00 | 187.5 | 16.97 | 16.69 | 16.59 | 16.40 | 16.33 |
| 189 | 4-Aug 08:00 | 4-Aug 09:00 | 188.5 | 17.56 | 17.34 | 17.20 | 16.96 | 16.89 |
| 190 | 4-Aug 09:00 | 4-Aug 10:00 | 189.5 | 18.06 | 17.78 | 17.51 | 17.26 | 17.16 |
| 191 | 4-Aug 10:00 | 4-Aug 11:00 | 190.5 | 19.00 | 18.68 | 18.33 | 18.06 | 17.94 |
| 192 | 4-Aug 11:00 | 4-Aug 12:00 | 191.5 | 20.04 | 19.74 | 19.27 | 18.97 | 18.83 |
| 193 | 4-Aug 12:00 | 4-Aug 13:00 | 192.5 | 20.52 | 20.29 | 19.94 | 19.68 | 19.55 |
| 194 | 4-Aug 13:00 | 4-Aug 14:00 | 193.5 | 20.20 | 19.94 | 19.76 | 19.59 | 19.43 |
| 195 | 4-Aug 14:00 | 4-Aug 15:00 | 194.5 | 19.68 | 19.42 | 19.29 | 19.12 | 18.94 |
| 196 | 4-Aug 15:00 | 4-Aug 16:00 | 195.5 | 19.80 | 19.62 | 19.50 | 19.30 | 19.18 |
| 197 | 4-Aug 16:00 | 4-Aug 17:00 | 196.5 | 17.58 | 17.35 | 17.21 | 17.00 | 16.89 |
| 198 | 4-Aug 17:00 | 4-Aug 18:00 | 197.5 | 14.62 | 14.34 | 14.23 | 14.02 | 13.92 |
| 199 | 4-Aug 18:00 | 4-Aug 19:00 | 198.5 | 13.29 | 13.00 | 12.90 | 12.68 | 12.58 |
| 200 | 4-Aug 19:00 | 4-Aug 20:00 | 199.5 | 12.28 | 12.01 | 11.94 | 11.74 | 11.65 |

Table A.3 Wet-bulb temperature in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Wet-bulb temperature (°C) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 201 | 4-Aug 20:00 | 4-Aug 21:00 | 200.5 | 11.20 | 10.90 | 10.85 | 10.68 | 10.61 |
| 202 | 4-Aug 21:00 | 4-Aug 22:00 | 201.5 | 10.00 | 9.69 | 9.63 | 9.50 | 9.43 |
| 203 | 4-Aug 22:00 | 4-Aug 23:00 | 202.5 | 9.40 | 9.06 | 9.01 | 8.90 | 8.83 |
| 204 | 4-Aug 23:00 | 5-Aug 00:00 | 203.5 | 9.06 | 8.71 | 8.65 | 8.58 | 8.50 |
| 205 | 5-Aug 00:00 | 5-Aug 01:00 | 204.5 | 8.95 | 8.59 | 8.51 | 8.46 | 8.37 |
| 206 | 5-Aug 01:00 | 5-Aug 02:00 | 205.5 | 9.07 | 8.69 | 8.62 | 8.59 | 8.48 |
| 207 | 5-Aug 02:00 | 5-Aug 03:00 | 206.5 | 9.12 | 8.79 | 8.75 | 8.73 | 8.64 |
| 208 | 5-Aug 03:00 | 5-Aug 04:00 | 207.5 | 8.47 | 8.22 | 8.32 | 8.35 | 8.34 |
| 209 | 5-Aug 04:00 | 5-Aug 05:00 | 208.5 | 7.45 | 7.18 | 7.39 | 7.47 | 7.51 |
| 210 | 5-Aug 05:00 | 5-Aug 06:00 | 209.5 | 6.12 | 5.86 | 6.36 | 6.60 | 6.73 |
| 211 | 5-Aug 06:00 | 5-Aug 07:00 | 210.5 | 6.76 | 6.56 | 6.75 | 6.82 | 6.87 |
| 212 | 5-Aug 07:00 | 5-Aug 08:00 | 211.5 | 7.98 | 7.79 | 7.82 | 7.76 | 7.63 |
| 213 | 5-Aug 08:00 | 5-Aug 09:00 | 212.5 | 9.56 | 9.57 | 9.36 | 9.18 | 8.89 |
| 214 | 5-Aug 09:00 | 5-Aug 10:00 | 213.5 | 10.66 | 10.60 | 10.22 | 9.97 | 9.60 |
| 215 | 5-Aug 10:00 | 5-Aug 11:00 | 214.5 | 11.16 | 10.80 | 10.36 | 10.14 | 9.73 |
| 216 | 5-Aug 11:00 | 5-Aug 12:00 | 215.5 | 11.34 | 10.93 | 10.36 | 10.13 | 9.75 |
| 217 | 5-Aug 12:00 | 5-Aug 13:00 | 216.5 | 12.27 | 11.70 | 11.10 | 10.85 | 10.45 |
| 218 | 5-Aug 13:00 | 5-Aug 14:00 | 217.5 | 13.01 | 12.20 | 11.54 | 11.33 | 10.90 |
| 219 | 5-Aug 14:00 | 5-Aug 15:00 | 218.5 | 13.28 | 12.35 | 11.72 | 11.51 | 11.09 |
| 220 | 5-Aug 15:00 | 5-Aug 16:00 | 219.5 | 13.13 | 12.12 | 11.66 | 11.44 | 11.13 |
| 221 | 5-Aug 16:00 | 5-Aug 17:00 | 220.5 | 13.34 | 12.40 | 11.98 | 11.76 | 11.50 |
| 222 | 5-Aug 17:00 | 5-Aug 18:00 | 221.5 | 14.02 | 12.83 | 12.28 | 12.09 | 11.84 |
| 223 | 5-Aug 18:00 | 5-Aug 19:00 | 222.5 | 13.75 | 12.54 | 12.14 | 11.96 | 11.73 |
| 224 | 5-Aug 19:00 | 5-Aug 20:00 | 223.5 | 13.91 | 12.71 | 12.49 | 12.43 | 12.12 |
| 225 | 5-Aug 20:00 | 5-Aug 21:00 | 224.5 | 11.25 | 10.79 | 11.04 | 11.24 | 11.18 |
| 226 | 5-Aug 21:00 | 5-Aug 22:00 | 225.5 | 8.25 | 8.05 | 8.92 | 9.37 | 9.72 |
| 227 | 5-Aug 22:00 | 5-Aug 23:00 | 226.5 | 6.84 | 6.55 | 7.54 | 8.07 | 8.54 |
| 228 | 5-Aug 23:00 | 6-Aug 00:00 | 227.5 | 6.15 | 5.95 | 6.83 | 7.34 | 7.69 |
| 229 | 6-Aug 00:00 | 6-Aug 01:00 | 228.5 | 5.54 | 5.49 | 6.32 | 6.63 | 6.97 |
| 230 | 6-Aug 01:00 | 6-Aug 02:00 | 229.5 | 5.57 | 5.40 | 6.15 | 6.47 | 6.87 |
| 231 | 6-Aug 02:00 | 6-Aug 03:00 | 230.5 | 4.97 | 4.73 | 5.50 | 5.79 | 6.09 |
| 232 | 6-Aug 03:00 | 6-Aug 04:00 | 231.5 | 4.90 | 4.66 | 5.20 | 5.46 | 5.74 |
| 233 | 6-Aug 04:00 | 6-Aug 05:00 | 232.5 | 4.79 | 4.40 | 4.88 | 5.13 | 5.39 |
| 234 | 6-Aug 05:00 | 6-Aug 06:00 | 233.5 | 5.06 | 4.68 | 4.95 | 5.07 | 5.16 |
| 235 | 6-Aug 06:00 | 6-Aug 07:00 | 234.5 | 6.25 | 5.70 | 5.68 | 5.68 | 5.54 |
| 236 | 6-Aug 07:00 | 6-Aug 08:00 | 235.5 | 7.87 | 7.44 | 7.35 | 7.31 | 7.08 |
| 237 | 6-Aug 08:00 | 6-Aug 09:00 | 236.5 | 11.34 | 11.15 | 10.59 | 10.33 | 10.12 |
| 238 | 6-Aug 09:00 | 6-Aug 10:00 | 237.5 | 13.54 | 13.31 | 12.44 | 12.08 | 11.81 |
| 239 | 6-Aug 10:00 | 6-Aug 11:00 | 238.5 | 15.64 | 15.20 | 14.44 | 14.01 | 13.72 |
| 240 | 6-Aug 11:00 | 6-Aug 12:00 | 239.5 | 17.71 | 17.17 | 16.07 | 15.68 | 15.36 |
| 241 | 6-Aug 12:00 | 6-Aug 13:00 | 240.5 | 18.93 | 18.07 | 16.85 | 16.49 | 16.15 |
| 242 | 6-Aug 13:00 | 6-Aug 14:00 | 241.5 | 18.84 | 17.36 | 16.02 | 15.69 | 15.33 |
| 243 | 6-Aug 14:00 | 6-Aug 15:00 | 242.5 | 19.07 | 16.69 | 15.35 | 15.05 | 14.70 |
| 244 | 6-Aug 15:00 | 6-Aug 16:00 | 243.5 | 19.92 | 17.24 | 15.92 | 15.67 | 15.24 |
| 245 | 6-Aug 16:00 | 6-Aug 17:00 | 244.5 | 19.43 | 17.09 | 16.02 | 15.70 | 15.40 |
| 246 | 6-Aug 17:00 | 6-Aug 18:00 | 245.5 | 19.30 | 17.12 | 16.17 | 15.93 | 15.60 |
| 247 | 6-Aug 18:00 | 6-Aug 19:00 | 246.5 | 19.03 | 17.70 | 17.26 | 17.09 | 16.69 |
| 248 | 6-Aug 19:00 | 6-Aug 20:00 | 247.5 | 17.92 | 16.90 | 16.70 | 16.67 | 16.28 |
| 249 | 6-Aug 20:00 | 6-Aug 21:00 | 248.5 | 14.46 | 14.06 | 14.33 | 14.54 | 14.50 |
| 250 | 6-Aug 21:00 | 6-Aug 22:00 | 249.5 | 11.56 | 11.42 | 12.22 | 12.74 | 13.06 |

Table A.3 Wet-bulb temperature in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Wet-bulb temperature (°C) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 251 | 6-Aug 22:00 | 6-Aug 23:00 | 250.5 | 11.28 | 11.06 | 11.56 | 12.02 | 12.39 |
| 252 | 6-Aug 23:00 | 7-Aug 00:00 | 251.5 | 11.05 | 10.85 | 11.50 | 11.89 | 12.27 |
| 253 | 7-Aug 00:00 | 7-Aug 01:00 | 252.5 | 9.55 | 9.59 | 10.45 | 10.89 | 11.27 |
| 254 | 7-Aug 01:00 | 7-Aug 02:00 | 253.5 | 8.68 | 8.63 | 9.35 | 9.68 | 10.10 |
| 255 | 7-Aug 02:00 | 7-Aug 03:00 | 254.5 | 8.24 | 8.14 | 8.79 | 9.13 | 9.48 |
| 256 | 7-Aug 03:00 | 7-Aug 04:00 | 255.5 | 7.58 | 7.46 | 8.12 | 8.50 | 8.94 |
| 257 | 7-Aug 04:00 | 7-Aug 05:00 | 256.5 | 7.33 | 7.17 | 7.74 | 8.01 | 8.27 |
| 258 | 7-Aug 05:00 | 7-Aug 06:00 | 257.5 | 7.56 | 7.28 | 7.62 | 7.82 | 7.96 |
| 259 | 7-Aug 06:00 | 7-Aug 07:00 | 258.5 | 9.98 | 9.68 | 9.63 | 9.58 | 9.44 |
| 260 | 7-Aug 07:00 | 7-Aug 08:00 | 259.5 | 11.06 | 10.66 | 10.51 | 10.49 | 10.25 |
| 261 | 7-Aug 08:00 | 7-Aug 09:00 | 260.5 | 13.36 | 12.97 | 12.59 | 12.48 | 12.21 |
| 262 | 7-Aug 09:00 | 7-Aug 10:00 | 261.5 | 15.94 | 15.54 | 14.61 | 14.32 | 14.07 |
| 263 | 7-Aug 10:00 | 7-Aug 11:00 | 262.5 | 17.86 | 17.32 | 16.42 | 15.97 | 15.65 |
| 264 | 7-Aug 11:00 | 7-Aug 12:00 | 263.5 | 18.80 | 17.95 | 16.88 | 16.50 | 16.14 |
| 265 | 7-Aug 12:00 | 7-Aug 13:00 | 264.5 | 18.52 | 17.09 | 16.37 | 16.14 | 15.90 |
| 266 | 7-Aug 13:00 | 7-Aug 14:00 | 265.5 | 21.37 | 18.48 | 17.09 | 16.75 | 16.30 |
| 267 | 7-Aug 14:00 | 7-Aug 15:00 | 266.5 | 22.24 | 17.70 | 16.68 | 16.49 | 16.08 |
| 268 | 7-Aug 15:00 | 7-Aug 16:00 | 267.5 | 21.99 | 17.55 | 16.63 | 16.44 | 16.15 |
| 269 | 7-Aug 16:00 | 7-Aug 17:00 | 268.5 | 22.61 | 18.14 | 17.02 | 16.79 | 16.49 |
| 270 | 7-Aug 17:00 | 7-Aug 18:00 | 269.5 | 21.97 | 18.04 | 16.86 | 16.59 | 16.34 |
| 271 | 7-Aug 18:00 | 7-Aug 19:00 | 270.5 | 21.75 | 18.32 | 17.18 | 16.92 | 16.71 |
| 272 | 7-Aug 19:00 | 7-Aug 20:00 | 271.5 | 20.65 | 18.44 | 17.91 | 17.72 | 17.31 |
| 273 | 7-Aug 20:00 | 7-Aug 21:00 | 272.5 | 15.91 | 15.27 | 15.51 | 15.78 | 15.82 |
| 274 | 7-Aug 21:00 | 7-Aug 22:00 | 273.5 | 12.31 | 12.15 | 13.13 | 13.84 | 14.30 |
| 275 | 7-Aug 22:00 | 7-Aug 23:00 | 274.5 | 10.91 | 10.82 | 11.89 | 12.65 | 13.28 |
| 276 | 7-Aug 23:00 | 8-Aug 00:00 | 275.5 | 9.94 | 9.75 | 10.91 | 11.69 | 12.49 |
| 277 | 8-Aug 00:00 | 8-Aug 01:00 | 276.5 | 9.50 | 9.27 | 10.29 | 10.97 | 11.83 |
| 278 | 8-Aug 01:00 | 8-Aug 02:00 | 277.5 | 8.85 | 8.87 | 9.86 | 10.42 | 11.00 |
| 279 | 8-Aug 02:00 | 8-Aug 03:00 | 278.5 | 8.42 | 8.34 | 9.27 | 9.78 | 10.21 |
| 280 | 8-Aug 03:00 | 8-Aug 04:00 | 279.5 | 7.88 | 7.81 | 8.64 | 9.10 | 9.51 |
| 281 | 8-Aug 04:00 | 8-Aug 05:00 | 280.5 | 7.30 | 7.19 | 7.99 | 8.43 | 8.76 |
| 282 | 8-Aug 05:00 | 8-Aug 06:00 | 281.5 | 8.44 | 8.06 | 8.33 | 8.63 | 8.88 |
| 283 | 8-Aug 06:00 | 8-Aug 07:00 | 282.5 | 10.88 | 10.52 | 10.45 | 10.48 | 10.29 |
| 284 | 8-Aug 07:00 | 8-Aug 08:00 | 283.5 | 13.03 | 12.87 | 12.70 | 12.66 | 12.51 |
| 285 | 8-Aug 08:00 | 8-Aug 09:00 | 284.5 | 15.08 | 14.85 | 14.36 | 14.18 | 13.97 |
| 286 | 8-Aug 09:00 | 8-Aug 10:00 | 285.5 | 17.05 | 16.77 | 15.96 | 15.62 | 15.41 |
| 287 | 8-Aug 10:00 | 8-Aug 11:00 | 286.5 | 18.41 | 17.58 | 16.73 | 16.34 | 16.02 |
| 288 | 8-Aug 11:00 | 8-Aug 12:00 | 287.5 | 19.75 | 18.37 | 17.37 | 17.07 | 16.75 |
| 289 | 8-Aug 12:00 | 8-Aug 13:00 | 288.5 | 22.28 | 18.91 | 17.98 | 17.72 | 17.39 |
| 290 | 8-Aug 13:00 | 8-Aug 14:00 | 289.5 | 23.88 | 19.76 | 18.52 | 18.26 | 17.85 |
| 291 | 8-Aug 14:00 | 8-Aug 15:00 | 290.5 | 24.94 | 19.52 | 18.41 | 18.22 | 17.89 |
| 292 | 8-Aug 15:00 | 8-Aug 16:00 | 291.5 | 24.56 | 19.10 | 18.17 | 17.98 | 17.72 |
| 293 | 8-Aug 16:00 | 8-Aug 17:00 | 292.5 | 24.44 | 19.18 | 18.30 | 18.14 | 17.85 |
| 294 | 8-Aug 17:00 | 8-Aug 18:00 | 293.5 | 23.76 | 19.12 | 18.36 | 18.17 | 17.93 |
| 295 | 8-Aug 18:00 | 8-Aug 19:00 | 294.5 | 23.39 | 19.93 | 19.37 | 19.19 | 18.85 |
| 296 | 8-Aug 19:00 | 8-Aug 20:00 | 295.5 | 21.65 | 20.28 | 20.05 | 19.99 | 19.65 |
| 297 | 8-Aug 20:00 | 8-Aug 21:00 | 296.5 | 19.50 | 18.67 | 18.65 | 18.72 | 18.60 |
| 298 | 8-Aug 21:00 | 8-Aug 22:00 | 297.5 | 18.68 | 17.96 | 17.89 | 17.89 | 17.82 |
| 299 | 8-Aug 22:00 | 8-Aug 23:00 | 298.5 | 18.52 | 17.61 | 17.54 | 17.55 | 17.45 |
| 300 | 8-Aug 23:00 | 9-Aug 00:00 | 299.5 | 18.28 | 17.66 | 17.61 | 17.66 | 17.56 |

Table A.3 Wet-bulb temperature in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Wet-bulb temperature (°C) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 301 | 9-Aug 00:00 | 9-Aug 01:00 | 300.5 | 18.02 | 17.54 | 17.49 | 17.51 | 17.43 |
| 302 | 9-Aug 01:00 | 9-Aug 02:00 | 301.5 | 17.47 | 16.94 | 16.81 | 16.76 | 16.68 |
| 303 | 9-Aug 02:00 | 9-Aug 03:00 | 302.5 | 17.28 | 16.81 | 16.76 | 16.63 | 16.54 |
| 304 | 9-Aug 03:00 | 9-Aug 04:00 | 303.5 | 17.47 | 17.18 | 17.19 | 17.00 | 16.94 |
| 305 | 9-Aug 04:00 | 9-Aug 05:00 | 304.5 | 17.11 | 16.86 | 16.91 | 16.78 | 16.74 |
| 306 | 9-Aug 05:00 | 9-Aug 06:00 | 305.5 | 16.79 | 16.55 | 16.65 | 16.58 | 16.55 |
| 307 | 9-Aug 06:00 | 9-Aug 07:00 | 306.5 | 16.17 | 15.98 | 16.16 | 16.18 | 16.24 |
| 308 | 9-Aug 07:00 | 9-Aug 08:00 | 307.5 | 17.29 | 17.09 | 17.06 | 16.93 | 16.78 |
| 309 | 9-Aug 08:00 | 9-Aug 09:00 | 308.5 | 18.01 | 17.78 | 17.68 | 17.53 | 17.35 |
| 310 | 9-Aug 09:00 | 9-Aug 10:00 | 309.5 | 15.51 | 15.23 | 15.18 | 14.93 | 14.84 |
| 311 | 9-Aug 10:00 | 9-Aug 11:00 | 310.5 | 15.05 | 14.61 | 14.41 | 14.12 | 13.93 |
| 312 | 9-Aug 11:00 | 9-Aug 12:00 | 311.5 | 14.77 | 14.19 | 13.92 | 13.70 | 13.49 |
| 313 | 9-Aug 12:00 | 9-Aug 13:00 | 312.5 | 14.02 | 13.39 | 13.16 | 13.05 | 12.88 |
| 314 | 9-Aug 13:00 | 9-Aug 14:00 | 313.5 | 14.43 | 13.18 | 12.87 | 12.73 | 12.50 |
| 315 | 9-Aug 14:00 | 9-Aug 15:00 | 314.5 | 15.42 | 13.31 | 12.92 | 12.76 | 12.49 |
| 316 | 9-Aug 15:00 | 9-Aug 16:00 | 315.5 | 15.73 | 13.27 | 12.98 | 12.84 | 12.60 |
| 317 | 9-Aug 16:00 | 9-Aug 17:00 | 316.5 | 14.93 | 12.64 | 12.40 | 12.28 | 12.11 |
| 318 | 9-Aug 17:00 | 9-Aug 18:00 | 317.5 | 15.99 | 13.00 | 12.70 | 12.57 | 12.36 |
| 319 | 9-Aug 18:00 | 9-Aug 19:00 | 318.5 | 14.93 | 12.46 | 12.36 | 12.27 | 12.14 |
| 320 | 9-Aug 19:00 | 9-Aug 20:00 | 319.5 | 15.84 | 13.04 | 12.87 | 12.77 | 12.61 |
| 321 | 9-Aug 20:00 | 9-Aug 21:00 | 320.5 | 11.82 | 10.79 | 11.22 | 11.47 | 11.51 |
| 322 | 9-Aug 21:00 | 9-Aug 22:00 | 321.5 | 8.71 | 8.50 | 9.49 | 9.95 | 10.25 |
| 323 | 9-Aug 22:00 | 9-Aug 23:00 | 322.5 | 6.89 | 6.77 | 7.87 | 8.51 | 9.12 |
| 324 | 9-Aug 23:00 | 10-Aug 00:00 | 323.5 | 5.94 | 5.73 | 6.93 | 7.42 | 7.94 |
| 325 | 10-Aug 00:00 | 10-Aug 01:00 | 324.5 | 5.14 | 5.01 | 6.14 | 6.55 | 7.06 |
| 326 | 10-Aug 01:00 | 10-Aug 02:00 | 325.5 | 4.58 | 4.45 | 5.63 | 6.10 | 6.64 |
| 327 | 10-Aug 02:00 | 10-Aug 03:00 | 326.5 | 4.24 | 4.13 | 5.37 | 5.90 | 6.34 |
| 328 | 10-Aug 03:00 | 10-Aug 04:00 | 327.5 | 3.90 | 3.73 | 4.51 | 4.86 | 5.30 |
| 329 | 10-Aug 04:00 | 10-Aug 05:00 | 328.5 | 3.91 | 3.77 | 4.55 | 4.82 | 5.16 |
| 330 | 10-Aug 05:00 | 10-Aug 06:00 | 329.5 | 2.84 | 2.62 | 3.59 | 4.02 | 4.75 |
| 331 | 10-Aug 06:00 | 10-Aug 07:00 | 330.5 | 3.21 | 2.99 | 3.74 | 4.10 | 6.11 |
| 332 | 10-Aug 07:00 | 10-Aug 08:00 | 331.5 | 7.52 | 7.55 | 7.73 | 7.62 | 10.50 |
| 333 | 10-Aug 08:00 | 10-Aug 09:00 | 332.5 | 10.02 | 10.05 | 9.88 | 9.58 | 12.06 |

Table A.4 Relative humidity in air at various heights

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Relative humidity (%) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 1 | 27-Jul 12:00 | 27-Jul 13:00 | 0.5 | 67.8 | 61.1 | 58.5 | 58.4 | 58.4 |
| 2 | 27-Jul 13:00 | 27-Jul 14:00 | 1.5 | n.m. | n.m. | n.m. | n.m. | n.m. |
| 3 | 27-Jul 14:00 | 27-Jul 15:00 | 2.5 | 69.4 | 61.4 | 58.7 | 58.8 | 58.9 |
| 4 | 27-Jul 15:00 | 27-Jul 16:00 | 3.5 | 66.1 | 56.6 | 53.6 | 52.2 | 52.4 |
| 5 | 27-Jul 16:00 | 27-Jul 17:00 | 4.5 | 59.2 | 51.6 | 49.8 | 48.0 | 48.0 |
| 6 | 27-Jul 17:00 | 27-Jul 18:00 | 5.5 | 66.3 | 57.0 | 53.5 | 52.5 | 52.2 |
| 7 | 27-Jul 18:00 | 27-Jul 19:00 | 6.5 | 66.3 | 56.4 | 53.4 | 51.6 | 51.3 |
| 8 | 27-Jul 19:00 | 27-Jul 20:00 | 7.5 | 75.9 | 68.7 | 66.7 | 66.1 | 65.0 |
| 9 | 27-Jul 20:00 | 27-Jul 21:00 | 8.5 | 96.1 | 92.4 | 89.4 | 89.9 | 88.3 |
| 10 | 27-Jul 21:00 | 27-Jul 22:00 | 9.5 | 100.1 | 96.9 | 94.8 | 95.8 | 94.1 |
| 11 | 27-Jul 22:00 | 27-Jul 23:00 | 10.5 | n.m. | n.m. | n.m. | n.m. | n.m. |
| 12 | 27-Jul 23:00 | 28-Jul 00:00 | 11.5 | 102.5 | 99.6 | 97.3 | 98.8 | 98.8 |
| 13 | 28-Jul 00:00 | 28-Jul 01:00 | 12.5 | 102.2 | 100.3 | 98.4 | 99.0 | 99.1 |
| 14 | 28-Jul 01:00 | 28-Jul 02:00 | 13.5 | 103.4 | 100.8 | 99.3 | 99.4 | 99.3 |
| 15 | 28-Jul 02:00 | 28-Jul 03:00 | 14.5 | 104.4 | 101.6 | 99.3 | 99.4 | 99.4 |
| 16 | 28-Jul 03:00 | 28-Jul 04:00 | 15.5 | 104.7 | 101.2 | 99.6 | 99.6 | 99.5 |
| 17 | 28-Jul 04:00 | 28-Jul 05:00 | 16.5 | 103.6 | 101.0 | 100.0 | 99.9 | 99.6 |
| 18 | 28-Jul 05:00 | 28-Jul 06:00 | 17.5 | 103.1 | 100.7 | 100.4 | 100.0 | 99.8 |
| 19 | 28-Jul 06:00 | 28-Jul 07:00 | 18.5 | 102.1 | 100.8 | 100.9 | 100.4 | 100.3 |
| 20 | 28-Jul 07:00 | 28-Jul 08:00 | 19.5 | 102.0 | 101.0 | 101.1 | 100.1 | 100.6 |
| 21 | 28-Jul 08:00 | 28-Jul 09:00 | 20.5 | 99.0 | 99.2 | 96.9 | 95.9 | 97.2 |
| 22 | 28-Jul 09:00 | 28-Jul 10:00 | 21.5 | 95.8 | 94.6 | 92.3 | 91.7 | 91.7 |
| 23 | 28-Jul 10:00 | 28-Jul 11:00 | 22.5 | 83.1 | 80.3 | 76.3 | 77.0 | 77.7 |
| 24 | 28-Jul 11:00 | 28-Jul 12:00 | 23.5 | 69.8 | 63.2 | 60.7 | 61.3 | 61.6 |
| 25 | 28-Jul 12:00 | 28-Jul 13:00 | 24.5 | 60.6 | 51.3 | 48.4 | 48.3 | 48.3 |
| 26 | 28-Jul 13:00 | 28-Jul 14:00 | 25.5 | 65.7 | 54.4 | 50.1 | 49.5 | 49.4 |
| 27 | 28-Jul 14:00 | 28-Jul 15:00 | 26.5 | 58.9 | 50.1 | 48.4 | 46.9 | 47.0 |
| 28 | 28-Jul 15:00 | 28-Jul 16:00 | 27.5 | 67.7 | 55.8 | 51.4 | 49.8 | 49.5 |
| 29 | 28-Jul 16:00 | 28-Jul 17:00 | 28.5 | 92.9 | 88.4 | 87.2 | 89.0 | 87.5 |
| 30 | 28-Jul 17:00 | 28-Jul 18:00 | 29.5 | 86.9 | 81.8 | 80.0 | 78.7 | 79.3 |
| 31 | 28-Jul 18:00 | 28-Jul 19:00 | 30.5 | 89.8 | 83.3 | 79.8 | 79.9 | 79.8 |
| 32 | 28-Jul 19:00 | 28-Jul 20:00 | 31.5 | 90.7 | 85.7 | 83.6 | 83.5 | 83.3 |
| 33 | 28-Jul 20:00 | 28-Jul 21:00 | 32.5 | 95.7 | 91.9 | 91.9 | 92.1 | 90.2 |
| 34 | 28-Jul 21:00 | 28-Jul 22:00 | 33.5 | 102.1 | 98.5 | 96.7 | 98.9 | 98.7 |
| 35 | 28-Jul 22:00 | 28-Jul 23:00 | 34.5 | 103.0 | 99.2 | 97.6 | 99.2 | 99.3 |
| 36 | 28-Jul 23:00 | 29-Jul 00:00 | 35.5 | 103.0 | 99.6 | 99.6 | 99.5 | 99.7 |
| 37 | 29-Jul 00:00 | 29-Jul 01:00 | 36.5 | 104.0 | 100.5 | 100.1 | 99.4 | 99.6 |
| 38 | 29-Jul 01:00 | 29-Jul 02:00 | 37.5 | 105.0 | 100.7 | 99.6 | 99.8 | 99.8 |
| 39 | 29-Jul 02:00 | 29-Jul 03:00 | 38.5 | 105.4 | 101.0 | 99.3 | 99.9 | 99.7 |
| 40 | 29-Jul 03:00 | 29-Jul 04:00 | 39.5 | 105.5 | 101.0 | 98.7 | 100.0 | 100.0 |
| 41 | 29-Jul 04:00 | 29-Jul 05:00 | 40.5 | 105.3 | 100.9 | 98.6 | 99.9 | 99.9 |
| 42 | 29-Jul 05:00 | 29-Jul 06:00 | 41.5 | 105.0 | 100.4 | 99.2 | 100.1 | 100.0 |
| 43 | 29-Jul 06:00 | 29-Jul 07:00 | 42.5 | 104.3 | 100.3 | 99.1 | 100.2 | 99.9 |
| 44 | 29-Jul 07:00 | 29-Jul 08:00 | 43.5 | 100.5 | 100.6 | 100.0 | 101.3 | 100.6 |
| 45 | 29-Jul 08:00 | 29-Jul 09:00 | 44.5 | 97.0 | 96.3 | 92.2 | 93.2 | 95.7 |
| 46 | 29-Jul 09:00 | 29-Jul 10:00 | 45.5 | 85.8 | 80.3 | 76.4 | 75.5 | 76.0 |
| 47 | 29-Jul 10:00 | 29-Jul 11:00 | 46.5 | 73.5 | 69.6 | 66.5 | 66.4 | 67.0 |
| 48 | 29-Jul 11:00 | 29-Jul 12:00 | 47.5 | 67.9 | 62.2 | 59.8 | 58.6 | 59.1 |
| 49 | 29-Jul 12:00 | 29-Jul 13:00 | 48.5 | 63.9 | 58.0 | 55.6 | 54.5 | 54.8 |
| 50 | 29-Jul 13:00 | 29-Jul 14:00 | 49.5 | 61.1 | 56.1 | 53.8 | 52.5 | 52.7 |

n.m.: not measured

Table A.4 Relative humidity in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Relative humidity (%) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 51 | 29-Jul 14:00 | 29-Jul 15:00 | 50.5 | 60.6 | 54.2 | 52.1 | 50.6 | 51.0 |
| 52 | 29-Jul 15:00 | 29-Jul 16:00 | 51.5 | 58.9 | 53.6 | 51.3 | 49.8 | 50.2 |
| 53 | 29-Jul 16:00 | 29-Jul 17:00 | 52.5 | 60.5 | 56.6 | 54.4 | 53.5 | 53.1 |
| 54 | 29-Jul 17:00 | 29-Jul 18:00 | 53.5 | 66.6 | 62.0 | 59.4 | 58.8 | 58.2 |
| 55 | 29-Jul 18:00 | 29-Jul 19:00 | 54.5 | 74.0 | 70.6 | 68.3 | 68.5 | 67.8 |
| 56 | 29-Jul 19:00 | 29-Jul 20:00 | 55.5 | 86.0 | 81.6 | 78.3 | 77.8 | 76.9 |
| 57 | 29-Jul 20:00 | 29-Jul 21:00 | 56.5 | 94.4 | 92.5 | 90.4 | 90.3 | 89.1 |
| 58 | 29-Jul 21:00 | 29-Jul 22:00 | 57.5 | 97.0 | 95.5 | 93.4 | 92.7 | 91.6 |
| 59 | 29-Jul 22:00 | 29-Jul 23:00 | 58.5 | 98.5 | 97.1 | 95.1 | 94.8 | 93.8 |
| 60 | 29-Jul 23:00 | 30-Jul 00:00 | 59.5 | 100.5 | 98.9 | 97.5 | 98.2 | 97.7 |
| 61 | 30-Jul 00:00 | 30-Jul 01:00 | 60.5 | 101.8 | 99.5 | 99.1 | 98.5 | 98.4 |
| 62 | 30-Jul 01:00 | 30-Jul 02:00 | 61.5 | 103.2 | 100.5 | 99.4 | 98.9 | 99.1 |
| 63 | 30-Jul 02:00 | 30-Jul 03:00 | 62.5 | 103.7 | 100.8 | 99.6 | 99.1 | 99.2 |
| 64 | 30-Jul 03:00 | 30-Jul 04:00 | 63.5 | 104.0 | 100.9 | 99.5 | 99.3 | 99.4 |
| 65 | 30-Jul 04:00 | 30-Jul 05:00 | 64.5 | 104.2 | 100.8 | 99.3 | 99.3 | 99.6 |
| 66 | 30-Jul 05:00 | 30-Jul 06:00 | 65.5 | 103.7 | 100.7 | 99.4 | 99.4 | 99.6 |
| 67 | 30-Jul 06:00 | 30-Jul 07:00 | 66.5 | 102.6 | 100.2 | 99.4 | 99.6 | 99.7 |
| 68 | 30-Jul 07:00 | 30-Jul 08:00 | 67.5 | 100.1 | 99.8 | 98.3 | 96.8 | 97.6 |
| 69 | 30-Jul 08:00 | 30-Jul 09:00 | 68.5 | 98.5 | 97.4 | 95.1 | 93.2 | 94.4 |
| 70 | 30-Jul 09:00 | 30-Jul 10:00 | 69.5 | 97.0 | 95.4 | 93.5 | 91.3 | 91.7 |
| 71 | 30-Jul 10:00 | 30-Jul 11:00 | 70.5 | 94.3 | 91.1 | 89.6 | 88.2 | 88.5 |
| 72 | 30-Jul 11:00 | 30-Jul 12:00 | 71.5 | 98.8 | 96.6 | 96.9 | 96.0 | 95.5 |
| 73 | 30-Jul 12:00 | 30-Jul 13:00 | 72.5 | 102.0 | 99.4 | 99.2 | 98.0 | 98.1 |
| 74 | 30-Jul 13:00 | 30-Jul 14:00 | 73.5 | 98.8 | 92.2 | 90.6 | 89.8 | 90.2 |
| 75 | 30-Jul 14:00 | 30-Jul 15:00 | 74.5 | 95.2 | 91.0 | 90.5 | 89.7 | 90.4 |
| 76 | 30-Jul 15:00 | 30-Jul 16:00 | 75.5 | 91.1 | 86.7 | 85.8 | 85.2 | 85.9 |
| 77 | 30-Jul 16:00 | 30-Jul 17:00 | 76.5 | 85.6 | 83.1 | 82.4 | 81.4 | 82.2 |
| 78 | 30-Jul 17:00 | 30-Jul 18:00 | 77.5 | 82.0 | 78.7 | 78.1 | 77.7 | 78.2 |
| 79 | 30-Jul 18:00 | 30-Jul 19:00 | 78.5 | 79.8 | 76.1 | 76.0 | 75.6 | 76.0 |
| 80 | 30-Jul 19:00 | 30-Jul 20:00 | 79.5 | 85.3 | 81.3 | 80.1 | 80.1 | 80.1 |
| 81 | 30-Jul 20:00 | 30-Jul 21:00 | 80.5 | 96.9 | 95.1 | 95.1 | 95.6 | 95.2 |
| 82 | 30-Jul 21:00 | 30-Jul 22:00 | 81.5 | 100.4 | 98.0 | 97.0 | 98.6 | 98.8 |
| 83 | 30-Jul 22:00 | 30-Jul 23:00 | 82.5 | 102.5 | 99.4 | 99.0 | 99.2 | 99.1 |
| 84 | 30-Jul 23:00 | 31-Jul 00:00 | 83.5 | 103.2 | 99.9 | 99.6 | 99.2 | 99.3 |
| 85 | 31-Jul 00:00 | 31-Jul 01:00 | 84.5 | 103.0 | 100.4 | 99.5 | 99.3 | 99.3 |
| 86 | 31-Jul 01:00 | 31-Jul 02:00 | 85.5 | 104.2 | 100.4 | 99.2 | 99.4 | 99.3 |
| 87 | 31-Jul 02:00 | 31-Jul 03:00 | 86.5 | 104.2 | 100.7 | 99.6 | 99.7 | 99.8 |
| 88 | 31-Jul 03:00 | 31-Jul 04:00 | 87.5 | 103.5 | 100.3 | 99.4 | 99.7 | 99.6 |
| 89 | 31-Jul 04:00 | 31-Jul 05:00 | 88.5 | 102.3 | 100.4 | 100.0 | 100.1 | 99.9 |
| 90 | 31-Jul 05:00 | 31-Jul 06:00 | 89.5 | 102.8 | 100.2 | 99.9 | 100.4 | 100.0 |
| 91 | 31-Jul 06:00 | 31-Jul 07:00 | 90.5 | 102.6 | 100.3 | 99.7 | 100.3 | 99.9 |
| 92 | 31-Jul 07:00 | 31-Jul 08:00 | 91.5 | 100.7 | 100.0 | 99.9 | 100.1 | 99.7 |
| 93 | 31-Jul 08:00 | 31-Jul 09:00 | 92.5 | 100.0 | 100.8 | 100.6 | 100.5 | 100.8 |
| 94 | 31-Jul 09:00 | 31-Jul 10:00 | 93.5 | 98.1 | 98.5 | 98.7 | 99.2 | 100.6 |
| 95 | 31-Jul 10:00 | 31-Jul 11:00 | 94.5 | 92.6 | 89.0 | 86.2 | 89.9 | 91.9 |
| 96 | 31-Jul 11:00 | 31-Jul 12:00 | 95.5 | 85.3 | 76.5 | 75.3 | 76.7 | 77.1 |
| 97 | 31-Jul 12:00 | 31-Jul 13:00 | 96.5 | 78.0 | 69.6 | 67.6 | 66.9 | 67.6 |
| 98 | 31-Jul 13:00 | 31-Jul 14:00 | 97.5 | 67.9 | 58.0 | 55.8 | 54.1 | 54.5 |
| 99 | 31-Jul 14:00 | 31-Jul 15:00 | 98.5 | 67.2 | 56.9 | 55.3 | 52.8 | 53.3 |
| 100 | 31-Jul 15:00 | 31-Jul 16:00 | 99.5 | 65.2 | 55.7 | 54.1 | 51.5 | 51.9 |

Table A.4 Relative humidity in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Relative humidity (%) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 101 | 31-Jul 16:00 | 31-Jul 17:00 | 100.5 | 63.4 | 55.2 | 53.5 | 51.1 | 51.3 |
| 102 | 31-Jul 17:00 | 31-Jul 18:00 | 101.5 | 70.1 | 60.9 | 58.9 | 57.0 | 57.0 |
| 103 | 31-Jul 18:00 | 31-Jul 19:00 | 102.5 | 73.9 | 64.8 | 62.4 | 60.9 | 60.9 |
| 104 | 31-Jul 19:00 | 31-Jul 20:00 | 103.5 | 87.1 | 80.6 | 77.4 | 75.7 | 73.7 |
| 105 | 31-Jul 20:00 | 31-Jul 21:00 | 104.5 | 97.0 | 95.0 | 92.6 | 92.0 | 89.7 |
| 106 | 31-Jul 21:00 | 31-Jul 22:00 | 105.5 | 99.9 | 98.1 | 96.2 | 96.5 | 94.1 |
| 107 | 31-Jul 22:00 | 31-Jul 23:00 | 106.5 | 100.6 | 98.6 | 97.0 | 97.4 | 95.7 |
| 108 | 31-Jul 23:00 | 1-Aug 00:00 | 107.5 | 101.0 | 98.9 | 98.3 | 98.6 | 97.6 |
| 109 | 1-Aug 00:00 | 1-Aug 01:00 | 108.5 | 101.5 | 99.2 | 98.3 | 98.3 | 97.9 |
| 110 | 1-Aug 01:00 | 1-Aug 02:00 | 109.5 | 101.6 | 99.1 | 99.2 | 98.8 | 98.8 |
| 111 | 1-Aug 02:00 | 1-Aug 03:00 | 110.5 | 102.3 | 99.7 | 99.7 | 99.2 | 99.1 |
| 112 | 1-Aug 03:00 | 1-Aug 04:00 | 111.5 | 102.5 | 99.8 | 99.8 | 99.2 | 99.3 |
| 113 | 1-Aug 04:00 | 1-Aug 05:00 | 112.5 | 102.0 | 99.9 | 99.8 | 99.3 | 99.0 |
| 114 | 1-Aug 05:00 | 1-Aug 06:00 | 113.5 | 101.1 | 99.8 | 99.7 | 99.2 | 98.9 |
| 115 | 1-Aug 06:00 | 1-Aug 07:00 | 114.5 | 100.6 | 99.6 | 99.0 | 98.5 | 98.5 |
| 116 | 1-Aug 07:00 | 1-Aug 08:00 | 115.5 | 98.9 | 98.4 | 98.3 | 97.8 | 98.2 |
| 117 | 1-Aug 08:00 | 1-Aug 09:00 | 116.5 | 96.8 | 92.4 | 92.4 | 91.2 | 91.6 |
| 118 | 1-Aug 09:00 | 1-Aug 10:00 | 117.5 | 92.3 | 84.8 | 84.6 | 84.5 | 85.3 |
| 119 | 1-Aug 10:00 | 1-Aug 11:00 | 118.5 | 83.9 | 77.8 | 76.1 | 76.7 | 77.4 |
| 120 | 1-Aug 11:00 | 1-Aug 12:00 | 119.5 | 79.4 | 70.1 | 67.4 | 66.0 | 66.2 |
| 121 | 1-Aug 12:00 | 1-Aug 13:00 | 120.5 | 71.7 | 62.2 | 60.0 | 58.7 | 59.1 |
| 122 | 1-Aug 13:00 | 1-Aug 14:00 | 121.5 | 72.1 | 65.3 | 62.6 | 61.6 | 61.5 |
| 123 | 1-Aug 14:00 | 1-Aug 15:00 | 122.5 | 98.4 | 96.8 | 92.7 | 95.0 | 93.0 |
| 124 | 1-Aug 15:00 | 1-Aug 16:00 | 123.5 | 100.0 | 99.0 | 98.8 | 99.3 | 99.2 |
| 125 | 1-Aug 16:00 | 1-Aug 17:00 | 124.5 | 100.0 | 99.3 | 98.2 | 97.5 | 97.0 |
| 126 | 1-Aug 17:00 | 1-Aug 18:00 | 125.5 | 98.4 | 89.8 | 88.5 | 87.5 | 87.9 |
| 127 | 1-Aug 18:00 | 1-Aug 19:00 | 126.5 | 96.9 | 93.6 | 93.1 | 93.3 | 93.8 |
| 128 | 1-Aug 19:00 | 1-Aug 20:00 | 127.5 | 93.9 | 88.0 | 86.0 | 85.5 | 85.4 |
| 129 | 1-Aug 20:00 | 1-Aug 21:00 | 128.5 | 96.2 | 93.6 | 91.1 | 91.2 | 90.6 |
| 130 | 1-Aug 21:00 | 1-Aug 22:00 | 129.5 | 99.3 | 98.2 | 97.2 | 98.1 | 98.5 |
| 131 | 1-Aug 22:00 | 1-Aug 23:00 | 130.5 | 98.9 | 97.4 | 96.4 | 96.8 | 97.0 |
| 132 | 1-Aug 23:00 | 2-Aug 00:00 | 131.5 | 94.2 | 91.4 | 89.9 | 89.5 | 89.2 |
| 133 | 2-Aug 00:00 | 2-Aug 01:00 | 132.5 | 91.0 | 88.7 | 87.4 | 87.5 | 87.2 |
| 134 | 2-Aug 01:00 | 2-Aug 02:00 | 133.5 | 90.8 | 88.9 | 87.9 | 88.1 | 87.9 |
| 135 | 2-Aug 02:00 | 2-Aug 03:00 | 134.5 | 95.7 | 93.8 | 93.3 | 93.4 | 93.5 |
| 136 | 2-Aug 03:00 | 2-Aug 04:00 | 135.5 | 97.5 | 94.9 | 94.0 | 94.2 | 94.0 |
| 137 | 2-Aug 04:00 | 2-Aug 05:00 | 136.5 | 97.0 | 93.2 | 92.1 | 92.3 | 91.8 |
| 138 | 2-Aug 05:00 | 2-Aug 06:00 | 137.5 | 100.2 | 98.0 | 97.6 | 97.3 | 97.6 |
| 139 | 2-Aug 06:00 | 2-Aug 07:00 | 138.5 | 100.3 | 97.3 | 96.4 | 95.5 | 95.5 |
| 140 | 2-Aug 07:00 | 2-Aug 08:00 | 139.5 | 100.2 | 95.3 | 91.3 | 91.0 | 88.9 |
| 141 | 2-Aug 08:00 | 2-Aug 09:00 | 140.5 | 96.9 | 91.3 | 88.6 | 88.4 | 87.5 |
| 142 | 2-Aug 09:00 | 2-Aug 10:00 | 141.5 | 88.3 | 84.5 | 81.8 | 81.9 | 81.3 |
| 143 | 2-Aug 10:00 | 2-Aug 11:00 | 142.5 | 83.7 | 80.7 | 78.2 | 77.6 | 77.5 |
| 144 | 2-Aug 11:00 | 2-Aug 12:00 | 143.5 | 76.1 | 72.6 | 69.4 | 68.5 | 68.6 |
| 145 | 2-Aug 12:00 | 2-Aug 13:00 | 144.5 | 75.5 | 68.5 | 63.9 | 62.9 | 63.3 |
| 146 | 2-Aug 13:00 | 2-Aug 14:00 | 145.5 | 65.9 | 58.8 | 55.6 | 55.6 | 55.2 |
| 147 | 2-Aug 14:00 | 2-Aug 15:00 | 146.5 | 65.6 | 57.4 | 54.1 | 52.9 | 52.8 |
| 148 | 2-Aug 15:00 | 2-Aug 16:00 | 147.5 | 63.3 | 55.8 | 52.9 | 51.0 | 50.9 |
| 149 | 2-Aug 16:00 | 2-Aug 17:00 | 148.5 | 67.0 | 58.8 | 54.0 | 52.4 | 52.4 |
| 150 | 2-Aug 17:00 | 2-Aug 18:00 | 149.5 | 73.0 | 65.3 | 60.1 | 57.0 | 56.6 |

Table A.4 Relative humidity in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Relative humidity (%) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 151 | 2-Aug 18:00 | 2-Aug 19:00 | 150.5 | 75.7 | 69.4 | 65.1 | 62.3 | 61.7 |
| 152 | 2-Aug 19:00 | 2-Aug 20:00 | 151.5 | 88.4 | 84.7 | 83.4 | 82.8 | 81.9 |
| 153 | 2-Aug 20:00 | 2-Aug 21:00 | 152.5 | 94.3 | 91.9 | 90.1 | 89.9 | 88.2 |
| 154 | 2-Aug 21:00 | 2-Aug 22:00 | 153.5 | 99.5 | 98.2 | 96.3 | 96.7 | 95.4 |
| 155 | 2-Aug 22:00 | 2-Aug 23:00 | 154.5 | 100.4 | 99.5 | 97.0 | 98.5 | 98.0 |
| 156 | 2-Aug 23:00 | 3-Aug 00:00 | 155.5 | 101.2 | 99.7 | 98.1 | 99.0 | 98.7 |
| 157 | 3-Aug 00:00 | 3-Aug 01:00 | 156.5 | 100.1 | 99.2 | 98.8 | 98.8 | 98.5 |
| 158 | 3-Aug 01:00 | 3-Aug 02:00 | 157.5 | 100.9 | 100.3 | 98.6 | 98.7 | 98.7 |
| 159 | 3-Aug 02:00 | 3-Aug 03:00 | 158.5 | 100.7 | 99.9 | 99.7 | 98.9 | 98.7 |
| 160 | 3-Aug 03:00 | 3-Aug 04:00 | 159.5 | 101.9 | 100.6 | 100.3 | 99.6 | 99.4 |
| 161 | 3-Aug 04:00 | 3-Aug 05:00 | 160.5 | 102.3 | 100.9 | 100.3 | 99.7 | 99.6 |
| 162 | 3-Aug 05:00 | 3-Aug 06:00 | 161.5 | 102.2 | 100.6 | 100.1 | 100.0 | 99.7 |
| 163 | 3-Aug 06:00 | 3-Aug 07:00 | 162.5 | 101.7 | 100.6 | 100.2 | 100.0 | 99.8 |
| 164 | 3-Aug 07:00 | 3-Aug 08:00 | 163.5 | 100.9 | 100.4 | 100.3 | 100.1 | 99.9 |
| 165 | 3-Aug 08:00 | 3-Aug 09:00 | 164.5 | 99.6 | 100.7 | 100.6 | 100.0 | 100.6 |
| 166 | 3-Aug 09:00 | 3-Aug 10:00 | 165.5 | 96.4 | 96.0 | 95.2 | 95.3 | 97.8 |
| 167 | 3-Aug 10:00 | 3-Aug 11:00 | 166.5 | 89.0 | 86.3 | 84.2 | 81.8 | 85.3 |
| 168 | 3-Aug 11:00 | 3-Aug 12:00 | 167.5 | 79.2 | 74.6 | 72.6 | 72.9 | 73.2 |
| 169 | 3-Aug 12:00 | 3-Aug 13:00 | 168.5 | 74.2 | 66.3 | 63.4 | 63.1 | 63.4 |
| 170 | 3-Aug 13:00 | 3-Aug 14:00 | 169.5 | 62.8 | 57.0 | 54.8 | 53.1 | 53.3 |
| 171 | 3-Aug 14:00 | 3-Aug 15:00 | 170.5 | 59.2 | 51.8 | 50.5 | 47.5 | 47.8 |
| 172 | 3-Aug 15:00 | 3-Aug 16:00 | 171.5 | 61.1 | 52.9 | 51.0 | 48.0 | 48.1 |
| 173 | 3-Aug 16:00 | 3-Aug 17:00 | 172.5 | 59.6 | 51.2 | 49.6 | 46.8 | 46.9 |
| 174 | 3-Aug 17:00 | 3-Aug 18:00 | 173.5 | 61.7 | 52.2 | 50.3 | 47.8 | 47.8 |
| 175 | 3-Aug 18:00 | 3-Aug 19:00 | 174.5 | 63.4 | 54.6 | 51.8 | 49.7 | 49.4 |
| 176 | 3-Aug 19:00 | 3-Aug 20:00 | 175.5 | 71.4 | 63.6 | 59.0 | 57.3 | 55.7 |
| 177 | 3-Aug 20:00 | 3-Aug 21:00 | 176.5 | 95.6 | 92.9 | 87.9 | 86.6 | 82.5 |
| 178 | 3-Aug 21:00 | 3-Aug 22:00 | 177.5 | 99.1 | 97.7 | 93.9 | 93.8 | 90.3 |
| 179 | 3-Aug 22:00 | 3-Aug 23:00 | 178.5 | 100.1 | 99.0 | 95.2 | 95.5 | 93.2 |
| 180 | 3-Aug 23:00 | 4-Aug 00:00 | 179.5 | 99.5 | 98.0 | 95.3 | 94.9 | 93.0 |
| 181 | 4-Aug 00:00 | 4-Aug 01:00 | 180.5 | 99.8 | 98.6 | 96.3 | 96.3 | 96.2 |
| 182 | 4-Aug 01:00 | 4-Aug 02:00 | 181.5 | 99.7 | 98.2 | 96.8 | 95.8 | 94.7 |
| 183 | 4-Aug 02:00 | 4-Aug 03:00 | 182.5 | 98.5 | 96.1 | 93.0 | 90.9 | 89.1 |
| 184 | 4-Aug 03:00 | 4-Aug 04:00 | 183.5 | 97.2 | 92.5 | 88.1 | 87.0 | 85.6 |
| 185 | 4-Aug 04:00 | 4-Aug 05:00 | 184.5 | 98.0 | 96.1 | 93.6 | 93.2 | 91.5 |
| 186 | 4-Aug 05:00 | 4-Aug 06:00 | 185.5 | 99.5 | 98.7 | 98.1 | 98.7 | 98.6 |
| 187 | 4-Aug 06:00 | 4-Aug 07:00 | 186.5 | 101.3 | 100.1 | 100.1 | 99.3 | 99.2 |
| 188 | 4-Aug 07:00 | 4-Aug 08:00 | 187.5 | 101.8 | 101.0 | 101.2 | 99.6 | 99.5 |
| 189 | 4-Aug 08:00 | 4-Aug 09:00 | 188.5 | 101.8 | 101.4 | 101.6 | 99.7 | 99.6 |
| 190 | 4-Aug 09:00 | 4-Aug 10:00 | 189.5 | 101.8 | 101.8 | 101.5 | 99.6 | 99.3 |
| 191 | 4-Aug 10:00 | 4-Aug 11:00 | 190.5 | 101.8 | 101.9 | 101.5 | 99.6 | 99.4 |
| 192 | 4-Aug 11:00 | 4-Aug 12:00 | 191.5 | 101.2 | 101.9 | 101.5 | 99.6 | 99.5 |
| 193 | 4-Aug 12:00 | 4-Aug 13:00 | 192.5 | 101.2 | 101.6 | 101.2 | 99.5 | 99.2 |
| 194 | 4-Aug 13:00 | 4-Aug 14:00 | 193.5 | 101.8 | 101.3 | 100.6 | 99.4 | 98.9 |
| 195 | 4-Aug 14:00 | 4-Aug 15:00 | 194.5 | 101.8 | 101.1 | 100.4 | 99.4 | 99.2 |
| 196 | 4-Aug 15:00 | 4-Aug 16:00 | 195.5 | 101.6 | 101.0 | 100.5 | 99.2 | 99.3 |
| 197 | 4-Aug 16:00 | 4-Aug 17:00 | 196.5 | 101.8 | 100.3 | 99.3 | 97.4 | 98.0 |
| 198 | 4-Aug 17:00 | 4-Aug 18:00 | 197.5 | 101.6 | 99.7 | 98.8 | 96.8 | 96.5 |
| 199 | 4-Aug 18:00 | 4-Aug 19:00 | 198.5 | 100.8 | 96.3 | 94.9 | 93.5 | 92.8 |
| 200 | 4-Aug 19:00 | 4-Aug 20:00 | 199.5 | 100.4 | 96.7 | 95.6 | 94.0 | 93.7 |

Table A.4 Relative humidity in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Relative humidity (%) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 201 | 4-Aug 20:00 | 4-Aug 21:00 | 200.5 | 99.7 | 96.9 | 95.8 | 94.3 | 94.1 |
| 202 | 4-Aug 21:00 | 4-Aug 22:00 | 201.5 | 98.3 | 94.4 | 93.1 | 91.9 | 91.5 |
| 203 | 4-Aug 22:00 | 4-Aug 23:00 | 202.5 | 96.6 | 92.1 | 90.4 | 89.3 | 88.6 |
| 204 | 4-Aug 23:00 | 5-Aug 00:00 | 203.5 | 98.3 | 93.6 | 92.5 | 91.9 | 91.4 |
| 205 | 5-Aug 00:00 | 5-Aug 01:00 | 204.5 | 93.6 | 89.8 | 87.5 | 87.1 | 86.2 |
| 206 | 5-Aug 01:00 | 5-Aug 02:00 | 205.5 | 92.5 | 89.6 | 87.2 | 86.8 | 86.1 |
| 207 | 5-Aug 02:00 | 5-Aug 03:00 | 206.5 | 92.8 | 90.6 | 88.5 | 88.2 | 87.7 |
| 208 | 5-Aug 03:00 | 5-Aug 04:00 | 207.5 | 94.5 | 93.0 | 91.0 | 90.6 | 90.2 |
| 209 | 5-Aug 04:00 | 5-Aug 05:00 | 208.5 | 97.1 | 95.4 | 93.4 | 93.2 | 92.8 |
| 210 | 5-Aug 05:00 | 5-Aug 06:00 | 209.5 | 100.7 | 98.8 | 95.1 | 96.1 | 95.5 |
| 211 | 5-Aug 06:00 | 5-Aug 07:00 | 210.5 | 98.5 | 97.0 | 94.6 | 94.4 | 94.0 |
| 212 | 5-Aug 07:00 | 5-Aug 08:00 | 211.5 | 94.5 | 92.2 | 89.1 | 88.2 | 87.7 |
| 213 | 5-Aug 08:00 | 5-Aug 09:00 | 212.5 | 85.0 | 83.0 | 79.6 | 79.1 | 78.8 |
| 214 | 5-Aug 09:00 | 5-Aug 10:00 | 213.5 | 75.4 | 73.5 | 70.4 | 70.0 | 70.0 |
| 215 | 5-Aug 10:00 | 5-Aug 11:00 | 214.5 | 65.4 | 62.9 | 59.8 | 60.0 | 59.2 |
| 216 | 5-Aug 11:00 | 5-Aug 12:00 | 215.5 | 59.1 | 55.5 | 52.9 | 52.5 | 51.7 |
| 217 | 5-Aug 12:00 | 5-Aug 13:00 | 216.5 | 60.0 | 55.7 | 53.4 | 52.8 | 52.1 |
| 218 | 5-Aug 13:00 | 5-Aug 14:00 | 217.5 | 57.2 | 52.0 | 49.7 | 48.8 | 48.0 |
| 219 | 5-Aug 14:00 | 5-Aug 15:00 | 218.5 | 56.4 | 51.0 | 49.0 | 47.5 | 46.8 |
| 220 | 5-Aug 15:00 | 5-Aug 16:00 | 219.5 | 57.9 | 51.4 | 49.2 | 47.6 | 47.0 |
| 221 | 5-Aug 16:00 | 5-Aug 17:00 | 220.5 | 59.7 | 53.4 | 51.4 | 50.1 | 49.2 |
| 222 | 5-Aug 17:00 | 5-Aug 18:00 | 221.5 | 58.5 | 51.5 | 49.9 | 48.3 | 47.9 |
| 223 | 5-Aug 18:00 | 5-Aug 19:00 | 222.5 | 58.6 | 50.5 | 48.4 | 46.7 | 46.2 |
| 224 | 5-Aug 19:00 | 5-Aug 20:00 | 223.5 | 71.1 | 64.2 | 61.6 | 60.7 | 58.7 |
| 225 | 5-Aug 20:00 | 5-Aug 21:00 | 224.5 | 95.8 | 94.8 | 91.5 | 91.9 | 87.4 |
| 226 | 5-Aug 21:00 | 5-Aug 22:00 | 225.5 | 101.3 | 100.1 | 95.9 | 97.4 | 96.1 |
| 227 | 5-Aug 22:00 | 5-Aug 23:00 | 226.5 | 102.1 | 100.0 | 97.1 | 99.1 | 99.0 |
| 228 | 5-Aug 23:00 | 6-Aug 00:00 | 227.5 | 102.7 | 100.4 | 97.4 | 99.3 | 98.9 |
| 229 | 6-Aug 00:00 | 6-Aug 01:00 | 228.5 | 102.8 | 101.3 | 98.1 | 99.4 | 99.1 |
| 230 | 6-Aug 01:00 | 6-Aug 02:00 | 229.5 | 101.8 | 100.4 | 99.0 | 99.2 | 99.3 |
| 231 | 6-Aug 02:00 | 6-Aug 03:00 | 230.5 | 102.7 | 101.1 | 99.2 | 99.6 | 99.3 |
| 232 | 6-Aug 03:00 | 6-Aug 04:00 | 231.5 | 102.7 | 101.2 | 99.3 | 99.4 | 98.9 |
| 233 | 6-Aug 04:00 | 6-Aug 05:00 | 232.5 | 103.3 | 100.9 | 99.1 | 99.5 | 98.8 |
| 234 | 6-Aug 05:00 | 6-Aug 06:00 | 233.5 | 103.3 | 101.4 | 99.4 | 99.5 | 98.9 |
| 235 | 6-Aug 06:00 | 6-Aug 07:00 | 234.5 | 103.1 | 100.9 | 100.2 | 99.9 | 99.1 |
| 236 | 6-Aug 07:00 | 6-Aug 08:00 | 235.5 | 101.9 | 100.5 | 99.7 | 100.1 | 99.3 |
| 237 | 6-Aug 08:00 | 6-Aug 09:00 | 236.5 | 100.0 | 100.6 | 99.9 | 99.8 | 100.6 |
| 238 | 6-Aug 09:00 | 6-Aug 10:00 | 237.5 | 95.7 | 95.4 | 93.3 | 94.3 | 96.3 |
| 239 | 6-Aug 10:00 | 6-Aug 11:00 | 238.5 | 87.1 | 84.4 | 80.6 | 81.4 | 84.5 |
| 240 | 6-Aug 11:00 | 6-Aug 12:00 | 239.5 | 79.0 | 74.0 | 71.8 | 73.1 | 74.3 |
| 241 | 6-Aug 12:00 | 6-Aug 13:00 | 240.5 | 73.0 | 66.3 | 63.1 | 63.7 | 64.3 |
| 242 | 6-Aug 13:00 | 6-Aug 14:00 | 241.5 | 69.0 | 58.7 | 53.5 | 52.3 | 52.5 |
| 243 | 6-Aug 14:00 | 6-Aug 15:00 | 242.5 | 68.4 | 51.7 | 46.8 | 44.6 | 44.5 |
| 244 | 6-Aug 15:00 | 6-Aug 16:00 | 243.5 | 68.4 | 51.1 | 48.5 | 45.2 | 45.5 |
| 245 | 6-Aug 16:00 | 6-Aug 17:00 | 244.5 | 75.1 | 57.8 | 52.3 | 50.0 | 49.7 |
| 246 | 6-Aug 17:00 | 6-Aug 18:00 | 245.5 | 73.8 | 58.7 | 54.4 | 52.2 | 51.3 |
| 247 | 6-Aug 18:00 | 6-Aug 19:00 | 246.5 | 79.3 | 70.4 | 68.2 | 66.1 | 65.2 |
| 248 | 6-Aug 19:00 | 6-Aug 20:00 | 247.5 | 90.8 | 86.2 | 83.8 | 83.2 | 80.8 |
| 249 | 6-Aug 20:00 | 6-Aug 21:00 | 248.5 | 97.3 | 96.0 | 92.3 | 92.5 | 90.4 |
| 250 | 6-Aug 21:00 | 6-Aug 22:00 | 249.5 | 101.6 | 100.4 | 96.2 | 98.2 | 97.2 |

Table A.4 Relative humidity in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Relative humidity (%) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 251 | 6-Aug 22:00 | 6-Aug 23:00 | 250.5 | 101.3 | 99.9 | 97.1 | 98.2 | 98.3 |
| 252 | 6-Aug 23:00 | 7-Aug 00:00 | 251.5 | 100.9 | 100.1 | 98.0 | 98.8 | 99.0 |
| 253 | 7-Aug 00:00 | 7-Aug 01:00 | 252.5 | 101.6 | 101.5 | 98.3 | 99.1 | 99.2 |
| 254 | 7-Aug 01:00 | 7-Aug 02:00 | 253.5 | 102.4 | 101.8 | 99.1 | 99.3 | 99.2 |
| 255 | 7-Aug 02:00 | 7-Aug 03:00 | 254.5 | 102.4 | 101.6 | 99.2 | 99.4 | 99.3 |
| 256 | 7-Aug 03:00 | 7-Aug 04:00 | 255.5 | 103.6 | 102.3 | 98.6 | 99.5 | 99.1 |
| 257 | 7-Aug 04:00 | 7-Aug 05:00 | 256.5 | 103.2 | 101.7 | 99.0 | 99.7 | 99.2 |
| 258 | 7-Aug 05:00 | 7-Aug 06:00 | 257.5 | 102.7 | 101.1 | 99.1 | 99.5 | 99.0 |
| 259 | 7-Aug 06:00 | 7-Aug 07:00 | 258.5 | 101.3 | 100.8 | 100.2 | 99.5 | 99.6 |
| 260 | 7-Aug 07:00 | 7-Aug 08:00 | 259.5 | 102.0 | 100.7 | 100.4 | 100.4 | 100.1 |
| 261 | 7-Aug 08:00 | 7-Aug 09:00 | 260.5 | 101.4 | 100.5 | 100.1 | 100.6 | 100.3 |
| 262 | 7-Aug 09:00 | 7-Aug 10:00 | 261.5 | 96.5 | 96.8 | 96.1 | 96.4 | 98.8 |
| 263 | 7-Aug 10:00 | 7-Aug 11:00 | 262.5 | 85.6 | 83.2 | 81.2 | 77.7 | 81.4 |
| 264 | 7-Aug 11:00 | 7-Aug 12:00 | 263.5 | 75.0 | 67.8 | 64.9 | 64.6 | 64.9 |
| 265 | 7-Aug 12:00 | 7-Aug 13:00 | 264.5 | 76.7 | 65.8 | 61.9 | 61.3 | 61.2 |
| 266 | 7-Aug 13:00 | 7-Aug 14:00 | 265.5 | 77.9 | 57.5 | 53.6 | 53.0 | 53.5 |
| 267 | 7-Aug 14:00 | 7-Aug 15:00 | 266.5 | 84.0 | 52.5 | 50.1 | 47.6 | 48.2 |
| 268 | 7-Aug 15:00 | 7-Aug 16:00 | 267.5 | 87.6 | 55.3 | 52.2 | 49.9 | 50.1 |
| 269 | 7-Aug 16:00 | 7-Aug 17:00 | 268.5 | 86.0 | 54.4 | 51.4 | 48.7 | 48.9 |
| 270 | 7-Aug 17:00 | 7-Aug 18:00 | 269.5 | 85.4 | 57.3 | 52.6 | 49.8 | 49.8 |
| 271 | 7-Aug 18:00 | 7-Aug 19:00 | 270.5 | 84.4 | 60.2 | 55.7 | 53.1 | 52.9 |
| 272 | 7-Aug 19:00 | 7-Aug 20:00 | 271.5 | 92.7 | 77.5 | 76.0 | 74.4 | 72.0 |
| 273 | 7-Aug 20:00 | 7-Aug 21:00 | 272.5 | 98.4 | 94.9 | 92.2 | 92.3 | 89.6 |
| 274 | 7-Aug 21:00 | 7-Aug 22:00 | 273.5 | 101.3 | 100.0 | 95.9 | 97.7 | 97.0 |
| 275 | 7-Aug 22:00 | 7-Aug 23:00 | 274.5 | 102.0 | 101.1 | 96.5 | 98.8 | 98.1 |
| 276 | 7-Aug 23:00 | 8-Aug 00:00 | 275.5 | 102.4 | 100.6 | 97.4 | 98.9 | 98.7 |
| 277 | 8-Aug 00:00 | 8-Aug 01:00 | 276.5 | 102.7 | 100.5 | 98.7 | 99.0 | 99.2 |
| 278 | 8-Aug 01:00 | 8-Aug 02:00 | 277.5 | 102.4 | 101.7 | 98.6 | 99.6 | 99.3 |
| 279 | 8-Aug 02:00 | 8-Aug 03:00 | 278.5 | 103.1 | 102.1 | 98.6 | 99.3 | 99.1 |
| 280 | 8-Aug 03:00 | 8-Aug 04:00 | 279.5 | 103.0 | 102.4 | 98.9 | 99.7 | 99.3 |
| 281 | 8-Aug 04:00 | 8-Aug 05:00 | 280.5 | 103.2 | 102.2 | 98.5 | 99.7 | 99.1 |
| 282 | 8-Aug 05:00 | 8-Aug 06:00 | 281.5 | 102.3 | 100.3 | 99.4 | 99.4 | 99.1 |
| 283 | 8-Aug 06:00 | 8-Aug 07:00 | 282.5 | 101.9 | 100.4 | 99.7 | 100.0 | 99.5 |
| 284 | 8-Aug 07:00 | 8-Aug 08:00 | 283.5 | 100.4 | 100.4 | 100.0 | 100.2 | 100.0 |
| 285 | 8-Aug 08:00 | 8-Aug 09:00 | 284.5 | 99.5 | 100.1 | 99.6 | 99.8 | 100.2 |
| 286 | 8-Aug 09:00 | 8-Aug 10:00 | 285.5 | 91.4 | 88.4 | 86.7 | 85.8 | 87.3 |
| 287 | 8-Aug 10:00 | 8-Aug 11:00 | 286.5 | 81.5 | 76.1 | 73.3 | 73.4 | 74.5 |
| 288 | 8-Aug 11:00 | 8-Aug 12:00 | 287.5 | 80.0 | 68.9 | 66.3 | 67.2 | 67.6 |
| 289 | 8-Aug 12:00 | 8-Aug 13:00 | 288.5 | 89.5 | 65.1 | 62.2 | 63.0 | 62.9 |
| 290 | 8-Aug 13:00 | 8-Aug 14:00 | 289.5 | 89.9 | 61.2 | 58.0 | 57.6 | 57.7 |
| 291 | 8-Aug 14:00 | 8-Aug 15:00 | 290.5 | 93.3 | 55.8 | 52.3 | 50.6 | 50.6 |
| 292 | 8-Aug 15:00 | 8-Aug 16:00 | 291.5 | 92.9 | 53.9 | 50.3 | 48.1 | 48.1 |
| 293 | 8-Aug 16:00 | 8-Aug 17:00 | 292.5 | 92.2 | 54.6 | 50.7 | 48.3 | 48.4 |
| 294 | 8-Aug 17:00 | 8-Aug 18:00 | 293.5 | 92.6 | 57.3 | 52.8 | 50.7 | 50.3 |
| 295 | 8-Aug 18:00 | 8-Aug 19:00 | 294.5 | 93.7 | 66.8 | 62.5 | 60.8 | 59.9 |
| 296 | 8-Aug 19:00 | 8-Aug 20:00 | 295.5 | 98.1 | 89.3 | 87.6 | 86.4 | 83.3 |
| 297 | 8-Aug 20:00 | 8-Aug 21:00 | 296.5 | 99.9 | 94.5 | 92.1 | 91.3 | 89.3 |
| 298 | 8-Aug 21:00 | 8-Aug 22:00 | 297.5 | 94.7 | 86.0 | 81.1 | 79.8 | 77.9 |
| 299 | 8-Aug 22:00 | 8-Aug 23:00 | 298.5 | 90.3 | 80.5 | 76.4 | 75.7 | 74.2 |
| 300 | 8-Aug 23:00 | 9-Aug 00:00 | 299.5 | 99.1 | 95.4 | 93.7 | 94.1 | 93.5 |

Table A.4 Relative humidity in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Relative humidity (%) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 301 | 9-Aug 00:00 | 9-Aug 01:00 | 300.5 | 101.0 | 98.6 | 98.1 | 98.5 | 98.2 |
| 302 | 9-Aug 01:00 | 9-Aug 02:00 | 301.5 | 102.1 | 99.6 | 99.6 | 99.2 | 98.9 |
| 303 | 9-Aug 02:00 | 9-Aug 03:00 | 302.5 | 102.5 | 100.2 | 100.6 | 99.5 | 99.2 |
| 304 | 9-Aug 03:00 | 9-Aug 04:00 | 303.5 | 102.1 | 100.9 | 101.2 | 99.5 | 99.4 |
| 305 | 9-Aug 04:00 | 9-Aug 05:00 | 304.5 | 102.3 | 101.0 | 101.0 | 99.4 | 99.3 |
| 306 | 9-Aug 05:00 | 9-Aug 06:00 | 305.5 | 102.2 | 101.1 | 101.0 | 99.7 | 99.5 |
| 307 | 9-Aug 06:00 | 9-Aug 07:00 | 306.5 | 102.3 | 101.2 | 100.8 | 99.7 | 99.6 |
| 308 | 9-Aug 07:00 | 9-Aug 08:00 | 307.5 | 101.5 | 101.1 | 101.0 | 99.7 | 99.5 |
| 309 | 9-Aug 08:00 | 9-Aug 09:00 | 308.5 | 100.2 | 100.9 | 98.8 | 97.9 | 97.3 |
| 310 | 9-Aug 09:00 | 9-Aug 10:00 | 309.5 | 98.4 | 96.5 | 94.8 | 92.7 | 93.0 |
| 311 | 9-Aug 10:00 | 9-Aug 11:00 | 310.5 | 93.2 | 89.4 | 88.2 | 86.1 | 86.7 |
| 312 | 9-Aug 11:00 | 9-Aug 12:00 | 311.5 | 85.8 | 82.8 | 81.4 | 80.4 | 80.7 |
| 313 | 9-Aug 12:00 | 9-Aug 13:00 | 312.5 | 86.3 | 82.2 | 80.7 | 80.4 | 80.4 |
| 314 | 9-Aug 13:00 | 9-Aug 14:00 | 313.5 | 89.0 | 79.4 | 78.0 | 77.7 | 77.9 |
| 315 | 9-Aug 14:00 | 9-Aug 15:00 | 314.5 | 93.3 | 75.8 | 74.3 | 73.9 | 74.1 |
| 316 | 9-Aug 15:00 | 9-Aug 16:00 | 315.5 | 96.2 | 75.4 | 73.8 | 73.3 | 73.3 |
| 317 | 9-Aug 16:00 | 9-Aug 17:00 | 316.5 | 95.9 | 75.5 | 73.9 | 73.5 | 73.4 |
| 318 | 9-Aug 17:00 | 9-Aug 18:00 | 317.5 | 95.5 | 69.7 | 67.8 | 67.1 | 66.8 |
| 319 | 9-Aug 18:00 | 9-Aug 19:00 | 318.5 | 97.4 | 75.4 | 72.9 | 71.9 | 71.7 |
| 320 | 9-Aug 19:00 | 9-Aug 20:00 | 319.5 | 95.9 | 71.9 | 70.2 | 69.3 | 69.3 |
| 321 | 9-Aug 20:00 | 9-Aug 21:00 | 320.5 | 103.7 | 95.1 | 91.4 | 92.2 | 89.7 |
| 322 | 9-Aug 21:00 | 9-Aug 22:00 | 321.5 | 103.2 | 99.0 | 96.5 | 97.1 | 95.8 |
| 323 | 9-Aug 22:00 | 9-Aug 23:00 | 322.5 | 103.7 | 100.2 | 96.5 | 98.2 | 97.5 |
| 324 | 9-Aug 23:00 | 10-Aug 00:00 | 323.5 | 104.3 | 99.8 | 98.1 | 98.8 | 98.5 |
| 325 | 10-Aug 00:00 | 10-Aug 01:00 | 324.5 | 104.7 | 101.0 | 98.9 | 99.4 | 98.7 |
| 326 | 10-Aug 01:00 | 10-Aug 02:00 | 325.5 | 104.9 | 101.4 | 99.3 | 99.1 | 98.8 |
| 327 | 10-Aug 02:00 | 10-Aug 03:00 | 326.5 | 104.8 | 101.7 | 98.7 | 99.2 | 98.7 |
| 328 | 10-Aug 03:00 | 10-Aug 04:00 | 327.5 | 104.8 | 101.3 | 100.0 | 99.5 | 99.2 |
| 329 | 10-Aug 04:00 | 10-Aug 05:00 | 328.5 | 104.1 | 101.7 | 99.8 | 99.6 | 99.2 |
| 330 | 10-Aug 05:00 | 10-Aug 06:00 | 329.5 | 105.6 | 101.6 | 99.1 | 99.6 | 97.9 |
| 331 | 10-Aug 06:00 | 10-Aug 07:00 | 330.5 | 104.7 | 100.9 | 100.0 | 99.5 | 89.9 |
| 332 | 10-Aug 07:00 | 10-Aug 08:00 | 331.5 | 99.7 | 101.0 | 99.2 | 97.5 | 70.1 |
| 333 | 10-Aug 08:00 | 10-Aug 09:00 | 332.5 | 94.3 | 92.8 | 87.8 | 85.5 | 66.0 |

Table A.5 Absolute humidity in air at various heights

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Absolute humidity ($g/m^3$) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 1 | 27-Jul 12:00 | 27-Jul 13:00 | 0.5 | 12.9 | 11.7 | 11.0 | 10.9 | 10.6 |
| 2 | 27-Jul 13:00 | 27-Jul 14:00 | 1.5 | n.m. | n.m. | n.m. | n.m. | n.m. |
| 3 | 27-Jul 14:00 | 27-Jul 15:00 | 2.5 | 14.2 | 12.6 | 11.7 | 11.6 | 11.4 |
| 4 | 27-Jul 15:00 | 27-Jul 16:00 | 3.5 | 14.2 | 12.0 | 11.0 | 10.9 | 10.6 |
| 5 | 27-Jul 16:00 | 27-Jul 17:00 | 4.5 | 14.0 | 11.9 | 10.9 | 10.7 | 10.4 |
| 6 | 27-Jul 17:00 | 27-Jul 18:00 | 5.5 | 14.0 | 12.1 | 11.1 | 11.0 | 10.7 |
| 7 | 27-Jul 18:00 | 27-Jul 19:00 | 6.5 | 14.4 | 12.2 | 11.2 | 11.0 | 10.6 |
| 8 | 27-Jul 19:00 | 27-Jul 20:00 | 7.5 | 15.5 | 13.9 | 13.2 | 13.2 | 12.7 |
| 9 | 27-Jul 20:00 | 27-Jul 21:00 | 8.5 | 14.8 | 14.1 | 13.9 | 14.1 | 13.8 |
| 10 | 27-Jul 21:00 | 27-Jul 22:00 | 9.5 | 13.4 | 13.0 | 13.0 | 13.3 | 13.2 |
| 11 | 27-Jul 22:00 | 27-Jul 23:00 | 10.5 | n.m. | n.m. | n.m. | n.m. | n.m. |
| 12 | 27-Jul 23:00 | 28-Jul 00:00 | 11.5 | 11.6 | 11.3 | 11.6 | 12.0 | 12.2 |
| 13 | 28-Jul 00:00 | 28-Jul 01:00 | 12.5 | 11.5 | 11.2 | 11.4 | 11.7 | 11.9 |
| 14 | 28-Jul 01:00 | 28-Jul 02:00 | 13.5 | 11.0 | 10.8 | 11.1 | 11.2 | 11.5 |
| 15 | 28-Jul 02:00 | 28-Jul 03:00 | 14.5 | 10.5 | 10.3 | 10.6 | 10.7 | 11.0 |
| 16 | 28-Jul 03:00 | 28-Jul 04:00 | 15.5 | 10.1 | 9.8 | 10.2 | 10.3 | 10.5 |
| 17 | 28-Jul 04:00 | 28-Jul 05:00 | 16.5 | 10.3 | 10.1 | 10.2 | 10.3 | 10.3 |
| 18 | 28-Jul 05:00 | 28-Jul 06:00 | 17.5 | 10.5 | 10.2 | 10.3 | 10.3 | 10.4 |
| 19 | 28-Jul 06:00 | 28-Jul 07:00 | 18.5 | 11.6 | 11.3 | 11.2 | 11.2 | 11.1 |
| 20 | 28-Jul 07:00 | 28-Jul 08:00 | 19.5 | 12.2 | 11.9 | 11.9 | 11.7 | 11.6 |
| 21 | 28-Jul 08:00 | 28-Jul 09:00 | 20.5 | 12.6 | 12.4 | 12.2 | 12.0 | 11.9 |
| 22 | 28-Jul 09:00 | 28-Jul 10:00 | 21.5 | 13.2 | 13.0 | 12.6 | 12.4 | 12.2 |
| 23 | 28-Jul 10:00 | 28-Jul 11:00 | 22.5 | 14.0 | 13.5 | 12.8 | 12.7 | 12.5 |
| 24 | 28-Jul 11:00 | 28-Jul 12:00 | 23.5 | 14.2 | 13.0 | 12.3 | 12.2 | 11.9 |
| 25 | 28-Jul 12:00 | 28-Jul 13:00 | 24.5 | 13.5 | 11.7 | 10.8 | 10.6 | 10.3 |
| 26 | 28-Jul 13:00 | 28-Jul 14:00 | 25.5 | 15.7 | 13.2 | 11.5 | 11.3 | 10.9 |
| 27 | 28-Jul 14:00 | 28-Jul 15:00 | 26.5 | 14.8 | 12.7 | 11.6 | 11.4 | 11.0 |
| 28 | 28-Jul 15:00 | 28-Jul 16:00 | 27.5 | 15.2 | 12.7 | 11.6 | 11.3 | 11.0 |
| 29 | 28-Jul 16:00 | 28-Jul 17:00 | 28.5 | 15.6 | 14.8 | 14.5 | 14.6 | 14.3 |
| 30 | 28-Jul 17:00 | 28-Jul 18:00 | 29.5 | 18.2 | 17.0 | 15.6 | 15.3 | 15.1 |
| 31 | 28-Jul 18:00 | 28-Jul 19:00 | 30.5 | 17.0 | 15.8 | 15.0 | 15.0 | 14.8 |
| 32 | 28-Jul 19:00 | 28-Jul 20:00 | 31.5 | 17.1 | 16.1 | 15.5 | 15.3 | 15.2 |
| 33 | 28-Jul 20:00 | 28-Jul 21:00 | 32.5 | 16.0 | 15.2 | 15.2 | 15.3 | 15.1 |
| 34 | 28-Jul 21:00 | 28-Jul 22:00 | 33.5 | 13.0 | 12.7 | 13.3 | 13.9 | 14.2 |
| 35 | 28-Jul 22:00 | 28-Jul 23:00 | 34.5 | 12.1 | 11.7 | 12.2 | 12.8 | 13.3 |
| 36 | 28-Jul 23:00 | 29-Jul 00:00 | 35.5 | 11.8 | 11.5 | 12.2 | 12.4 | 12.7 |
| 37 | 29-Jul 00:00 | 29-Jul 01:00 | 36.5 | 11.3 | 11.0 | 11.4 | 11.6 | 12.0 |
| 38 | 29-Jul 01:00 | 29-Jul 02:00 | 37.5 | 10.5 | 10.1 | 10.7 | 11.0 | 11.3 |
| 39 | 29-Jul 02:00 | 29-Jul 03:00 | 38.5 | 9.9 | 9.6 | 10.1 | 10.4 | 10.7 |
| 40 | 29-Jul 03:00 | 29-Jul 04:00 | 39.5 | 9.4 | 9.1 | 9.6 | 9.9 | 10.2 |
| 41 | 29-Jul 04:00 | 29-Jul 05:00 | 40.5 | 9.0 | 8.7 | 9.1 | 9.5 | 9.8 |
| 42 | 29-Jul 05:00 | 29-Jul 06:00 | 41.5 | 8.7 | 8.4 | 8.8 | 9.1 | 9.3 |
| 43 | 29-Jul 06:00 | 29-Jul 07:00 | 42.5 | 9.0 | 8.6 | 8.9 | 9.1 | 9.3 |
| 44 | 29-Jul 07:00 | 29-Jul 08:00 | 43.5 | 11.1 | 11.0 | 11.0 | 11.1 | 10.9 |
| 45 | 29-Jul 08:00 | 29-Jul 09:00 | 44.5 | 13.6 | 13.6 | 13.0 | 12.9 | 12.9 |
| 46 | 29-Jul 09:00 | 29-Jul 10:00 | 45.5 | 14.1 | 13.5 | 12.9 | 12.7 | 12.4 |
| 47 | 29-Jul 10:00 | 29-Jul 11:00 | 46.5 | 14.1 | 13.5 | 12.9 | 12.8 | 12.5 |
| 48 | 29-Jul 11:00 | 29-Jul 12:00 | 47.5 | 14.7 | 13.6 | 13.0 | 12.7 | 12.4 |
| 49 | 29-Jul 12:00 | 29-Jul 13:00 | 48.5 | 14.8 | 13.7 | 12.9 | 12.7 | 12.5 |
| 50 | 29-Jul 13:00 | 29-Jul 14:00 | 49.5 | 14.5 | 13.4 | 12.7 | 12.6 | 12.3 |

n.m.: not measured

Table A.5 Absolute humidity in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Absolute humidity ($g/m^3$) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 51 | 29-Jul 14:00 | 29-Jul 15:00 | 50.5 | 15.2 | 13.7 | 12.9 | 12.7 | 12.4 |
| 52 | 29-Jul 15:00 | 29-Jul 16:00 | 51.5 | 14.4 | 13.2 | 12.6 | 12.4 | 12.2 |
| 53 | 29-Jul 16:00 | 29-Jul 17:00 | 52.5 | 14.8 | 13.9 | 13.2 | 13.0 | 12.8 |
| 54 | 29-Jul 17:00 | 29-Jul 18:00 | 53.5 | 15.7 | 14.7 | 14.1 | 13.9 | 13.7 |
| 55 | 29-Jul 18:00 | 29-Jul 19:00 | 54.5 | 15.7 | 15.0 | 14.6 | 14.6 | 14.4 |
| 56 | 29-Jul 19:00 | 29-Jul 20:00 | 55.5 | 16.8 | 16.0 | 15.5 | 15.5 | 15.2 |
| 57 | 29-Jul 20:00 | 29-Jul 21:00 | 56.5 | 17.3 | 16.8 | 16.6 | 16.7 | 16.3 |
| 58 | 29-Jul 21:00 | 29-Jul 22:00 | 57.5 | 16.5 | 16.2 | 16.0 | 16.1 | 15.9 |
| 59 | 29-Jul 22:00 | 29-Jul 23:00 | 58.5 | 15.6 | 15.3 | 15.3 | 15.4 | 15.3 |
| 60 | 29-Jul 23:00 | 30-Jul 00:00 | 59.5 | 13.8 | 13.6 | 14.2 | 14.5 | 14.7 |
| 61 | 30-Jul 00:00 | 30-Jul 01:00 | 60.5 | 13.1 | 12.9 | 13.4 | 13.6 | 13.9 |
| 62 | 30-Jul 01:00 | 30-Jul 02:00 | 61.5 | 12.2 | 12.0 | 12.6 | 12.8 | 13.2 |
| 63 | 30-Jul 02:00 | 30-Jul 03:00 | 62.5 | 11.8 | 11.6 | 12.1 | 12.2 | 12.6 |
| 64 | 30-Jul 03:00 | 30-Jul 04:00 | 63.5 | 11.4 | 11.2 | 11.6 | 11.8 | 12.1 |
| 65 | 30-Jul 04:00 | 30-Jul 05:00 | 64.5 | 10.9 | 10.7 | 11.1 | 11.3 | 11.7 |
| 66 | 30-Jul 05:00 | 30-Jul 06:00 | 65.5 | 10.8 | 10.5 | 10.8 | 11.0 | 11.2 |
| 67 | 30-Jul 06:00 | 30-Jul 07:00 | 66.5 | 11.3 | 11.0 | 11.2 | 11.3 | 11.3 |
| 68 | 30-Jul 07:00 | 30-Jul 08:00 | 67.5 | 13.1 | 12.8 | 12.7 | 12.5 | 12.4 |
| 69 | 30-Jul 08:00 | 30-Jul 09:00 | 68.5 | 14.3 | 13.9 | 13.7 | 13.5 | 13.4 |
| 70 | 30-Jul 09:00 | 30-Jul 10:00 | 69.5 | 14.8 | 14.3 | 14.2 | 13.8 | 13.7 |
| 71 | 30-Jul 10:00 | 30-Jul 11:00 | 70.5 | 14.9 | 14.3 | 14.2 | 13.9 | 13.8 |
| 72 | 30-Jul 11:00 | 30-Jul 12:00 | 71.5 | 15.2 | 14.8 | 14.6 | 14.4 | 14.2 |
| 73 | 30-Jul 12:00 | 30-Jul 13:00 | 72.5 | 16.2 | 15.6 | 15.4 | 15.1 | 15.0 |
| 74 | 30-Jul 13:00 | 30-Jul 14:00 | 73.5 | 17.2 | 16.0 | 15.5 | 15.3 | 15.0 |
| 75 | 30-Jul 14:00 | 30-Jul 15:00 | 74.5 | 16.3 | 15.5 | 15.3 | 15.2 | 15.0 |
| 76 | 30-Jul 15:00 | 30-Jul 16:00 | 75.5 | 16.3 | 15.4 | 15.0 | 14.9 | 14.7 |
| 77 | 30-Jul 16:00 | 30-Jul 17:00 | 76.5 | 16.2 | 15.6 | 15.2 | 15.1 | 14.8 |
| 78 | 30-Jul 17:00 | 30-Jul 18:00 | 77.5 | 16.3 | 15.4 | 15.0 | 14.9 | 14.7 |
| 79 | 30-Jul 18:00 | 30-Jul 19:00 | 78.5 | 16.3 | 15.3 | 14.9 | 14.8 | 14.7 |
| 80 | 30-Jul 19:00 | 30-Jul 20:00 | 79.5 | 16.6 | 15.9 | 15.2 | 15.1 | 14.9 |
| 81 | 30-Jul 20:00 | 30-Jul 21:00 | 80.5 | 16.0 | 15.5 | 15.6 | 15.7 | 15.6 |
| 82 | 30-Jul 21:00 | 30-Jul 22:00 | 81.5 | 13.6 | 13.4 | 13.9 | 14.4 | 14.6 |
| 83 | 30-Jul 22:00 | 30-Jul 23:00 | 82.5 | 12.3 | 12.2 | 12.9 | 13.2 | 13.5 |
| 84 | 30-Jul 23:00 | 31-Jul 00:00 | 83.5 | 11.8 | 11.5 | 12.2 | 12.5 | 13.0 |
| 85 | 31-Jul 00:00 | 31-Jul 01:00 | 84.5 | 11.6 | 11.4 | 12.0 | 12.4 | 12.8 |
| 86 | 31-Jul 01:00 | 31-Jul 02:00 | 85.5 | 11.1 | 10.8 | 11.4 | 11.7 | 12.1 |
| 87 | 31-Jul 02:00 | 31-Jul 03:00 | 86.5 | 10.8 | 10.5 | 10.9 | 11.2 | 11.6 |
| 88 | 31-Jul 03:00 | 31-Jul 04:00 | 87.5 | 10.7 | 10.4 | 10.8 | 11.0 | 11.4 |
| 89 | 31-Jul 04:00 | 31-Jul 05:00 | 88.5 | 11.5 | 11.2 | 11.3 | 11.4 | 11.4 |
| 90 | 31-Jul 05:00 | 31-Jul 06:00 | 89.5 | 11.0 | 10.7 | 10.8 | 10.9 | 10.9 |
| 91 | 31-Jul 06:00 | 31-Jul 07:00 | 90.5 | 11.0 | 10.6 | 10.7 | 10.8 | 10.7 |
| 92 | 31-Jul 07:00 | 31-Jul 08:00 | 91.5 | 12.6 | 12.3 | 12.2 | 12.2 | 12.1 |
| 93 | 31-Jul 08:00 | 31-Jul 09:00 | 92.5 | 14.4 | 14.3 | 13.9 | 13.8 | 13.7 |
| 94 | 31-Jul 09:00 | 31-Jul 10:00 | 93.5 | 15.7 | 15.2 | 14.7 | 14.5 | 14.4 |
| 95 | 31-Jul 10:00 | 31-Jul 11:00 | 94.5 | 17.3 | 16.4 | 15.5 | 15.4 | 15.3 |
| 96 | 31-Jul 11:00 | 31-Jul 12:00 | 95.5 | 18.7 | 17.1 | 16.1 | 15.8 | 15.6 |
| 97 | 31-Jul 12:00 | 31-Jul 13:00 | 96.5 | 19.0 | 17.1 | 16.0 | 15.7 | 15.4 |
| 98 | 31-Jul 13:00 | 31-Jul 14:00 | 97.5 | 17.2 | 15.0 | 14.2 | 13.9 | 13.6 |
| 99 | 31-Jul 14:00 | 31-Jul 15:00 | 98.5 | 17.5 | 15.2 | 14.4 | 14.0 | 13.7 |
| 100 | 31-Jul 15:00 | 31-Jul 16:00 | 99.5 | 17.3 | 15.1 | 14.3 | 13.9 | 13.6 |

Table A.5 Absolute humidity in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Absolute humidity (g/m$^3$) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 101 | 31-Jul 16:00 | 31-Jul 17:00 | 100.5 | 16.7 | 14.8 | 14.2 | 13.8 | 13.5 |
| 102 | 31-Jul 17:00 | 31-Jul 18:00 | 101.5 | 17.3 | 15.3 | 14.9 | 14.5 | 14.3 |
| 103 | 31-Jul 18:00 | 31-Jul 19:00 | 102.5 | 17.5 | 15.7 | 15.2 | 15.0 | 14.8 |
| 104 | 31-Jul 19:00 | 31-Jul 20:00 | 103.5 | 18.7 | 17.4 | 16.9 | 16.7 | 16.2 |
| 105 | 31-Jul 20:00 | 31-Jul 21:00 | 104.5 | 17.0 | 16.6 | 16.7 | 16.8 | 16.7 |
| 106 | 31-Jul 21:00 | 31-Jul 22:00 | 105.5 | 14.7 | 14.5 | 15.0 | 15.4 | 15.6 |
| 107 | 31-Jul 22:00 | 31-Jul 23:00 | 106.5 | 13.6 | 13.4 | 14.0 | 14.4 | 14.7 |
| 108 | 31-Jul 23:00 | 1-Aug 00:00 | 107.5 | 12.9 | 12.7 | 13.3 | 13.7 | 13.9 |
| 109 | 1-Aug 00:00 | 1-Aug 01:00 | 108.5 | 12.4 | 12.2 | 12.8 | 13.1 | 13.4 |
| 110 | 1-Aug 01:00 | 1-Aug 02:00 | 109.5 | 12.1 | 11.8 | 12.5 | 12.7 | 13.0 |
| 111 | 1-Aug 02:00 | 1-Aug 03:00 | 110.5 | 11.6 | 11.4 | 12.0 | 12.2 | 12.5 |
| 112 | 1-Aug 03:00 | 1-Aug 04:00 | 111.5 | 11.2 | 10.9 | 11.5 | 11.8 | 12.2 |
| 113 | 1-Aug 04:00 | 1-Aug 05:00 | 112.5 | 11.4 | 11.2 | 11.6 | 11.8 | 12.0 |
| 114 | 1-Aug 05:00 | 1-Aug 06:00 | 113.5 | 12.5 | 12.2 | 12.4 | 12.4 | 12.4 |
| 115 | 1-Aug 06:00 | 1-Aug 07:00 | 114.5 | 13.1 | 12.9 | 13.0 | 13.0 | 13.1 |
| 116 | 1-Aug 07:00 | 1-Aug 08:00 | 115.5 | 14.9 | 15.0 | 15.0 | 14.8 | 14.8 |
| 117 | 1-Aug 08:00 | 1-Aug 09:00 | 116.5 | 16.8 | 16.3 | 16.0 | 15.6 | 15.5 |
| 118 | 1-Aug 09:00 | 1-Aug 10:00 | 117.5 | 17.6 | 16.7 | 16.2 | 15.9 | 15.7 |
| 119 | 1-Aug 10:00 | 1-Aug 11:00 | 118.5 | 18.4 | 17.2 | 16.4 | 16.2 | 16.0 |
| 120 | 1-Aug 11:00 | 1-Aug 12:00 | 119.5 | 18.3 | 16.7 | 15.8 | 15.5 | 15.2 |
| 121 | 1-Aug 12:00 | 1-Aug 13:00 | 120.5 | 18.4 | 16.4 | 15.5 | 15.1 | 14.8 |
| 122 | 1-Aug 13:00 | 1-Aug 14:00 | 121.5 | 16.7 | 15.4 | 14.9 | 14.7 | 14.5 |
| 123 | 1-Aug 14:00 | 1-Aug 15:00 | 122.5 | 18.0 | 17.4 | 16.9 | 17.1 | 16.7 |
| 124 | 1-Aug 15:00 | 1-Aug 16:00 | 123.5 | 18.4 | 18.0 | 17.8 | 17.7 | 17.5 |
| 125 | 1-Aug 16:00 | 1-Aug 17:00 | 124.5 | 20.0 | 19.4 | 18.5 | 18.2 | 18.1 |
| 126 | 1-Aug 17:00 | 1-Aug 18:00 | 125.5 | 20.2 | 18.8 | 18.1 | 17.8 | 17.6 |
| 127 | 1-Aug 18:00 | 1-Aug 19:00 | 126.5 | 19.9 | 19.2 | 18.7 | 18.6 | 18.5 |
| 128 | 1-Aug 19:00 | 1-Aug 20:00 | 127.5 | 18.8 | 17.9 | 17.5 | 17.4 | 17.2 |
| 129 | 1-Aug 20:00 | 1-Aug 21:00 | 128.5 | 17.6 | 17.1 | 17.0 | 17.0 | 16.9 |
| 130 | 1-Aug 21:00 | 1-Aug 22:00 | 129.5 | 16.2 | 16.0 | 16.2 | 16.4 | 16.5 |
| 131 | 1-Aug 22:00 | 1-Aug 23:00 | 130.5 | 16.1 | 15.8 | 15.8 | 16.0 | 16.0 |
| 132 | 1-Aug 23:00 | 2-Aug 00:00 | 131.5 | 16.0 | 15.7 | 15.6 | 15.6 | 15.5 |
| 133 | 2-Aug 00:00 | 2-Aug 01:00 | 132.5 | 14.7 | 14.4 | 14.3 | 14.3 | 14.2 |
| 134 | 2-Aug 01:00 | 2-Aug 02:00 | 133.5 | 13.8 | 13.5 | 13.5 | 13.5 | 13.4 |
| 135 | 2-Aug 02:00 | 2-Aug 03:00 | 134.5 | 13.1 | 12.9 | 12.8 | 12.8 | 12.8 |
| 136 | 2-Aug 03:00 | 2-Aug 04:00 | 135.5 | 13.0 | 12.7 | 12.6 | 12.6 | 12.6 |
| 137 | 2-Aug 04:00 | 2-Aug 05:00 | 136.5 | 12.6 | 12.2 | 12.1 | 12.1 | 12.0 |
| 138 | 2-Aug 05:00 | 2-Aug 06:00 | 137.5 | 12.1 | 11.8 | 11.7 | 11.7 | 11.7 |
| 139 | 2-Aug 06:00 | 2-Aug 07:00 | 138.5 | 11.8 | 11.4 | 11.3 | 11.3 | 11.2 |
| 140 | 2-Aug 07:00 | 2-Aug 08:00 | 139.5 | 12.0 | 11.4 | 11.1 | 11.1 | 10.9 |
| 141 | 2-Aug 08:00 | 2-Aug 09:00 | 140.5 | 11.8 | 11.2 | 10.9 | 10.9 | 10.8 |
| 142 | 2-Aug 09:00 | 2-Aug 10:00 | 141.5 | 11.3 | 10.8 | 10.4 | 10.4 | 10.3 |
| 143 | 2-Aug 10:00 | 2-Aug 11:00 | 142.5 | 11.6 | 11.1 | 10.7 | 10.6 | 10.4 |
| 144 | 2-Aug 11:00 | 2-Aug 12:00 | 143.5 | 11.8 | 11.2 | 10.6 | 10.4 | 10.3 |
| 145 | 2-Aug 12:00 | 2-Aug 13:00 | 144.5 | 13.0 | 11.8 | 10.8 | 10.5 | 10.4 |
| 146 | 2-Aug 13:00 | 2-Aug 14:00 | 145.5 | 13.0 | 11.6 | 10.6 | 10.5 | 10.2 |
| 147 | 2-Aug 14:00 | 2-Aug 15:00 | 146.5 | 13.4 | 11.8 | 10.6 | 10.3 | 10.1 |
| 148 | 2-Aug 15:00 | 2-Aug 16:00 | 147.5 | 13.6 | 11.8 | 10.7 | 10.4 | 10.1 |
| 149 | 2-Aug 16:00 | 2-Aug 17:00 | 148.5 | 14.1 | 12.4 | 10.9 | 10.6 | 10.3 |
| 150 | 2-Aug 17:00 | 2-Aug 18:00 | 149.5 | 15.2 | 13.4 | 11.7 | 11.2 | 10.9 |

Table A.5 Absolute humidity in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Absolute humidity (g/m$^3$) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 151 | 2-Aug 18:00 | 2-Aug 19:00 | 150.5 | 15.2 | 13.7 | 12.3 | 11.9 | 11.6 |
| 152 | 2-Aug 19:00 | 2-Aug 20:00 | 151.5 | 15.5 | 14.5 | 14.2 | 14.1 | 13.8 |
| 153 | 2-Aug 20:00 | 2-Aug 21:00 | 152.5 | 14.7 | 14.0 | 13.9 | 13.9 | 13.6 |
| 154 | 2-Aug 21:00 | 2-Aug 22:00 | 153.5 | 13.0 | 12.7 | 12.7 | 12.9 | 12.9 |
| 155 | 2-Aug 22:00 | 2-Aug 23:00 | 154.5 | 11.8 | 11.6 | 11.9 | 12.3 | 12.5 |
| 156 | 2-Aug 23:00 | 3-Aug 00:00 | 155.5 | 11.2 | 11.0 | 11.4 | 11.7 | 12.0 |
| 157 | 3-Aug 00:00 | 3-Aug 01:00 | 156.5 | 12.1 | 11.8 | 12.0 | 12.0 | 12.0 |
| 158 | 3-Aug 01:00 | 3-Aug 02:00 | 157.5 | 11.1 | 10.9 | 11.3 | 11.5 | 11.6 |
| 159 | 3-Aug 02:00 | 3-Aug 03:00 | 158.5 | 11.6 | 11.4 | 11.6 | 11.6 | 11.6 |
| 160 | 3-Aug 03:00 | 3-Aug 04:00 | 159.5 | 11.8 | 11.5 | 11.6 | 11.6 | 11.6 |
| 161 | 3-Aug 04:00 | 3-Aug 05:00 | 160.5 | 11.3 | 11.0 | 11.2 | 11.2 | 11.2 |
| 162 | 3-Aug 05:00 | 3-Aug 06:00 | 161.5 | 11.5 | 11.1 | 11.2 | 11.2 | 11.2 |
| 163 | 3-Aug 06:00 | 3-Aug 07:00 | 162.5 | 12.2 | 11.9 | 11.9 | 11.8 | 11.7 |
| 164 | 3-Aug 07:00 | 3-Aug 08:00 | 163.5 | 13.1 | 12.8 | 12.7 | 12.7 | 12.5 |
| 165 | 3-Aug 08:00 | 3-Aug 09:00 | 164.5 | 14.4 | 14.1 | 13.6 | 13.4 | 13.3 |
| 166 | 3-Aug 09:00 | 3-Aug 10:00 | 165.5 | 15.2 | 14.7 | 14.1 | 13.9 | 13.8 |
| 167 | 3-Aug 10:00 | 3-Aug 11:00 | 166.5 | 15.6 | 14.9 | 14.2 | 13.8 | 13.8 |
| 168 | 3-Aug 11:00 | 3-Aug 12:00 | 167.5 | 15.8 | 14.8 | 13.9 | 13.7 | 13.4 |
| 169 | 3-Aug 12:00 | 3-Aug 13:00 | 168.5 | 16.2 | 14.7 | 13.6 | 13.3 | 13.0 |
| 170 | 3-Aug 13:00 | 3-Aug 14:00 | 169.5 | 13.9 | 12.7 | 12.0 | 11.7 | 11.5 |
| 171 | 3-Aug 14:00 | 3-Aug 15:00 | 170.5 | 14.5 | 12.6 | 11.7 | 11.2 | 10.9 |
| 172 | 3-Aug 15:00 | 3-Aug 16:00 | 171.5 | 15.0 | 13.0 | 12.0 | 11.5 | 11.2 |
| 173 | 3-Aug 16:00 | 3-Aug 17:00 | 172.5 | 14.8 | 12.7 | 11.9 | 11.4 | 11.2 |
| 174 | 3-Aug 17:00 | 3-Aug 18:00 | 173.5 | 14.7 | 12.5 | 11.7 | 11.4 | 11.1 |
| 175 | 3-Aug 18:00 | 3-Aug 19:00 | 174.5 | 14.5 | 12.6 | 11.8 | 11.5 | 11.3 |
| 176 | 3-Aug 19:00 | 3-Aug 20:00 | 175.5 | 14.8 | 13.1 | 12.3 | 12.0 | 11.6 |
| 177 | 3-Aug 20:00 | 3-Aug 21:00 | 176.5 | 14.3 | 13.7 | 13.5 | 13.5 | 13.2 |
| 178 | 3-Aug 21:00 | 3-Aug 22:00 | 177.5 | 12.2 | 12.0 | 12.3 | 12.6 | 12.6 |
| 179 | 3-Aug 22:00 | 3-Aug 23:00 | 178.5 | 11.6 | 11.4 | 11.6 | 11.9 | 12.0 |
| 180 | 3-Aug 23:00 | 4-Aug 00:00 | 179.5 | 12.1 | 11.8 | 11.8 | 12.0 | 11.9 |
| 181 | 4-Aug 00:00 | 4-Aug 01:00 | 180.5 | 11.9 | 11.7 | 11.9 | 12.1 | 12.1 |
| 182 | 4-Aug 01:00 | 4-Aug 02:00 | 181.5 | 12.4 | 12.0 | 12.1 | 12.1 | 12.0 |
| 183 | 4-Aug 02:00 | 4-Aug 03:00 | 182.5 | 13.2 | 12.8 | 12.6 | 12.4 | 12.3 |
| 184 | 4-Aug 03:00 | 4-Aug 04:00 | 183.5 | 13.6 | 13.0 | 12.7 | 12.6 | 12.4 |
| 185 | 4-Aug 04:00 | 4-Aug 05:00 | 184.5 | 13.5 | 13.1 | 12.9 | 12.9 | 12.7 |
| 186 | 4-Aug 05:00 | 4-Aug 06:00 | 185.5 | 13.8 | 13.4 | 13.3 | 13.4 | 13.3 |
| 187 | 4-Aug 06:00 | 4-Aug 07:00 | 186.5 | 14.0 | 13.7 | 13.6 | 13.5 | 13.4 |
| 188 | 4-Aug 07:00 | 4-Aug 08:00 | 187.5 | 14.5 | 14.2 | 14.2 | 13.9 | 13.8 |
| 189 | 4-Aug 08:00 | 4-Aug 09:00 | 188.5 | 15.0 | 14.8 | 14.7 | 14.4 | 14.3 |
| 190 | 4-Aug 09:00 | 4-Aug 10:00 | 189.5 | 15.5 | 15.2 | 15.0 | 14.6 | 14.5 |
| 191 | 4-Aug 10:00 | 4-Aug 11:00 | 190.5 | 16.4 | 16.1 | 15.7 | 15.4 | 15.2 |
| 192 | 4-Aug 11:00 | 4-Aug 12:00 | 191.5 | 17.4 | 17.1 | 16.6 | 16.2 | 16.1 |
| 193 | 4-Aug 12:00 | 4-Aug 13:00 | 192.5 | 17.9 | 17.6 | 17.3 | 16.9 | 16.8 |
| 194 | 4-Aug 13:00 | 4-Aug 14:00 | 193.5 | 17.6 | 17.3 | 17.0 | 16.8 | 16.6 |
| 195 | 4-Aug 14:00 | 4-Aug 15:00 | 194.5 | 17.0 | 16.7 | 16.6 | 16.3 | 16.2 |
| 196 | 4-Aug 15:00 | 4-Aug 16:00 | 195.5 | 17.1 | 16.9 | 16.8 | 16.5 | 16.4 |
| 197 | 4-Aug 16:00 | 4-Aug 17:00 | 196.5 | 15.0 | 14.8 | 14.6 | 14.3 | 14.2 |
| 198 | 4-Aug 17:00 | 4-Aug 18:00 | 197.5 | 12.6 | 12.3 | 12.1 | 11.9 | 11.8 |
| 199 | 4-Aug 18:00 | 4-Aug 19:00 | 198.5 | 11.6 | 11.1 | 11.0 | 10.8 | 10.7 |
| 200 | 4-Aug 19:00 | 4-Aug 20:00 | 199.5 | 10.9 | 10.5 | 10.4 | 10.2 | 10.1 |

Table A.5 Absolute humidity in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Absolute humidity (g/m$^3$) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 201 | 4-Aug 20:00 | 4-Aug 21:00 | 200.5 | 10.1 | 9.8 | 9.7 | 9.5 | 9.5 |
| 202 | 4-Aug 21:00 | 4-Aug 22:00 | 201.5 | 9.3 | 9.0 | 8.9 | 8.7 | 8.7 |
| 203 | 4-Aug 22:00 | 4-Aug 23:00 | 202.5 | 8.9 | 8.5 | 8.4 | 8.3 | 8.2 |
| 204 | 4-Aug 23:00 | 5-Aug 00:00 | 203.5 | 8.8 | 8.4 | 8.3 | 8.2 | 8.2 |
| 205 | 5-Aug 00:00 | 5-Aug 01:00 | 204.5 | 8.5 | 8.2 | 8.0 | 8.0 | 7.9 |
| 206 | 5-Aug 01:00 | 5-Aug 02:00 | 205.5 | 8.5 | 8.2 | 8.0 | 8.0 | 7.9 |
| 207 | 5-Aug 02:00 | 5-Aug 03:00 | 206.5 | 8.6 | 8.3 | 8.2 | 8.2 | 8.1 |
| 208 | 5-Aug 03:00 | 5-Aug 04:00 | 207.5 | 8.3 | 8.1 | 8.1 | 8.1 | 8.0 |
| 209 | 5-Aug 04:00 | 5-Aug 05:00 | 208.5 | 7.9 | 7.7 | 7.7 | 7.7 | 7.7 |
| 210 | 5-Aug 05:00 | 5-Aug 06:00 | 209.5 | 7.4 | 7.2 | 7.3 | 7.4 | 7.5 |
| 211 | 5-Aug 06:00 | 5-Aug 07:00 | 210.5 | 7.6 | 7.4 | 7.4 | 7.5 | 7.5 |
| 212 | 5-Aug 07:00 | 5-Aug 08:00 | 211.5 | 8.0 | 7.9 | 7.7 | 7.7 | 7.6 |
| 213 | 5-Aug 08:00 | 5-Aug 09:00 | 212.5 | 8.4 | 8.3 | 8.1 | 7.9 | 7.8 |
| 214 | 5-Aug 09:00 | 5-Aug 10:00 | 213.5 | 8.5 | 8.4 | 8.0 | 7.8 | 7.6 |
| 215 | 5-Aug 10:00 | 5-Aug 11:00 | 214.5 | 8.2 | 7.8 | 7.4 | 7.3 | 7.1 |
| 216 | 5-Aug 11:00 | 5-Aug 12:00 | 215.5 | 7.9 | 7.4 | 6.9 | 6.8 | 6.5 |
| 217 | 5-Aug 12:00 | 5-Aug 13:00 | 216.5 | 8.5 | 7.8 | 7.3 | 7.2 | 6.9 |
| 218 | 5-Aug 13:00 | 5-Aug 14:00 | 217.5 | 8.7 | 7.8 | 7.3 | 7.1 | 6.8 |
| 219 | 5-Aug 14:00 | 5-Aug 15:00 | 218.5 | 8.8 | 7.8 | 7.3 | 7.1 | 6.8 |
| 220 | 5-Aug 15:00 | 5-Aug 16:00 | 219.5 | 8.8 | 7.7 | 7.3 | 7.1 | 6.9 |
| 221 | 5-Aug 16:00 | 5-Aug 17:00 | 220.5 | 9.1 | 8.1 | 7.7 | 7.4 | 7.2 |
| 222 | 5-Aug 17:00 | 5-Aug 18:00 | 221.5 | 9.4 | 8.1 | 7.7 | 7.5 | 7.3 |
| 223 | 5-Aug 18:00 | 5-Aug 19:00 | 222.5 | 9.3 | 7.9 | 7.5 | 7.3 | 7.1 |
| 224 | 5-Aug 19:00 | 5-Aug 20:00 | 223.5 | 10.3 | 9.0 | 8.7 | 8.6 | 8.3 |
| 225 | 5-Aug 20:00 | 5-Aug 21:00 | 224.5 | 10.0 | 9.6 | 9.6 | 9.8 | 9.5 |
| 226 | 5-Aug 21:00 | 5-Aug 22:00 | 225.5 | 8.5 | 8.3 | 8.6 | 8.9 | 9.1 |
| 227 | 5-Aug 22:00 | 5-Aug 23:00 | 226.5 | 7.8 | 7.6 | 7.9 | 8.3 | 8.5 |
| 228 | 5-Aug 23:00 | 6-Aug 00:00 | 227.5 | 7.5 | 7.3 | 7.6 | 7.9 | 8.1 |
| 229 | 6-Aug 00:00 | 6-Aug 01:00 | 228.5 | 7.2 | 7.1 | 7.4 | 7.6 | 7.7 |
| 230 | 6-Aug 01:00 | 6-Aug 02:00 | 229.5 | 7.2 | 7.0 | 7.3 | 7.5 | 7.7 |
| 231 | 6-Aug 02:00 | 6-Aug 03:00 | 230.5 | 6.9 | 6.7 | 7.0 | 7.2 | 7.3 |
| 232 | 6-Aug 03:00 | 6-Aug 04:00 | 231.5 | 6.9 | 6.7 | 6.9 | 7.0 | 7.1 |
| 233 | 6-Aug 04:00 | 6-Aug 05:00 | 232.5 | 6.9 | 6.6 | 6.7 | 6.9 | 7.0 |
| 234 | 6-Aug 05:00 | 6-Aug 06:00 | 233.5 | 7.0 | 6.7 | 6.8 | 6.8 | 6.9 |
| 235 | 6-Aug 06:00 | 6-Aug 07:00 | 234.5 | 7.5 | 7.2 | 7.2 | 7.1 | 7.0 |
| 236 | 6-Aug 07:00 | 6-Aug 08:00 | 235.5 | 8.3 | 8.0 | 7.9 | 7.9 | 7.8 |
| 237 | 6-Aug 08:00 | 6-Aug 09:00 | 236.5 | 10.2 | 10.1 | 9.8 | 9.6 | 9.5 |
| 238 | 6-Aug 09:00 | 6-Aug 10:00 | 237.5 | 11.5 | 11.3 | 10.6 | 10.4 | 10.3 |
| 239 | 6-Aug 10:00 | 6-Aug 11:00 | 238.5 | 12.6 | 12.1 | 11.3 | 11.0 | 11.0 |
| 240 | 6-Aug 11:00 | 6-Aug 12:00 | 239.5 | 13.7 | 12.9 | 11.9 | 11.7 | 11.5 |
| 241 | 6-Aug 12:00 | 6-Aug 13:00 | 240.5 | 14.4 | 13.1 | 11.8 | 11.6 | 11.4 |
| 242 | 6-Aug 13:00 | 6-Aug 14:00 | 241.5 | 14.0 | 11.9 | 10.4 | 10.0 | 9.8 |
| 243 | 6-Aug 14:00 | 6-Aug 15:00 | 242.5 | 14.1 | 10.7 | 9.3 | 8.9 | 8.6 |
| 244 | 6-Aug 15:00 | 6-Aug 16:00 | 243.5 | 14.9 | 11.1 | 9.8 | 9.3 | 9.1 |
| 245 | 6-Aug 16:00 | 6-Aug 17:00 | 244.5 | 15.0 | 11.6 | 10.3 | 9.8 | 9.6 |
| 246 | 6-Aug 17:00 | 6-Aug 18:00 | 245.5 | 14.8 | 11.7 | 10.6 | 10.2 | 9.9 |
| 247 | 6-Aug 18:00 | 6-Aug 19:00 | 246.5 | 14.9 | 13.1 | 12.6 | 12.3 | 11.9 |
| 248 | 6-Aug 19:00 | 6-Aug 20:00 | 247.5 | 14.7 | 13.5 | 13.2 | 13.1 | 12.7 |
| 249 | 6-Aug 20:00 | 6-Aug 21:00 | 248.5 | 12.2 | 11.9 | 11.9 | 12.0 | 11.9 |
| 250 | 6-Aug 21:00 | 6-Aug 22:00 | 249.5 | 10.4 | 10.3 | 10.6 | 11.1 | 11.2 |

Table A.5 Absolute humidity in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Absolute humidity (g/m$^3$) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 251 | 6-Aug 22:00 | 6-Aug 23:00 | 250.5 | 10.3 | 10.0 | 10.2 | 10.6 | 10.8 |
| 252 | 6-Aug 23:00 | 7-Aug 00:00 | 251.5 | 10.1 | 9.9 | 10.2 | 10.5 | 10.8 |
| 253 | 7-Aug 00:00 | 7-Aug 01:00 | 252.5 | 9.2 | 9.2 | 9.6 | 9.9 | 10.1 |
| 254 | 7-Aug 01:00 | 7-Aug 02:00 | 253.5 | 8.8 | 8.7 | 9.0 | 9.2 | 9.4 |
| 255 | 7-Aug 02:00 | 7-Aug 03:00 | 254.5 | 8.5 | 8.4 | 8.7 | 8.9 | 9.1 |
| 256 | 7-Aug 03:00 | 7-Aug 04:00 | 255.5 | 8.2 | 8.1 | 8.3 | 8.5 | 8.8 |
| 257 | 7-Aug 04:00 | 7-Aug 05:00 | 256.5 | 8.1 | 7.9 | 8.1 | 8.3 | 8.4 |
| 258 | 7-Aug 05:00 | 7-Aug 06:00 | 257.5 | 8.2 | 8.0 | 8.1 | 8.2 | 8.2 |
| 259 | 7-Aug 06:00 | 7-Aug 07:00 | 258.5 | 9.5 | 9.3 | 9.2 | 9.1 | 9.1 |
| 260 | 7-Aug 07:00 | 7-Aug 08:00 | 259.5 | 10.1 | 9.8 | 9.7 | 9.7 | 9.6 |
| 261 | 7-Aug 08:00 | 7-Aug 09:00 | 260.5 | 11.7 | 11.3 | 11.1 | 11.0 | 10.8 |
| 262 | 7-Aug 09:00 | 7-Aug 10:00 | 261.5 | 13.3 | 13.0 | 12.3 | 12.1 | 12.0 |
| 263 | 7-Aug 10:00 | 7-Aug 11:00 | 262.5 | 14.3 | 13.7 | 12.8 | 12.2 | 12.2 |
| 264 | 7-Aug 11:00 | 7-Aug 12:00 | 263.5 | 14.4 | 13.1 | 12.0 | 11.7 | 11.4 |
| 265 | 7-Aug 12:00 | 7-Aug 13:00 | 264.5 | 14.3 | 12.2 | 11.4 | 11.1 | 11.0 |
| 266 | 7-Aug 13:00 | 7-Aug 14:00 | 265.5 | 17.1 | 12.7 | 11.2 | 10.9 | 10.6 |
| 267 | 7-Aug 14:00 | 7-Aug 15:00 | 266.5 | 18.5 | 11.5 | 10.5 | 10.2 | 9.9 |
| 268 | 7-Aug 15:00 | 7-Aug 16:00 | 267.5 | 18.5 | 11.7 | 10.7 | 10.3 | 10.1 |
| 269 | 7-Aug 16:00 | 7-Aug 17:00 | 268.5 | 19.1 | 12.1 | 10.9 | 10.5 | 10.3 |
| 270 | 7-Aug 17:00 | 7-Aug 18:00 | 269.5 | 18.4 | 12.3 | 10.9 | 10.4 | 10.3 |
| 271 | 7-Aug 18:00 | 7-Aug 19:00 | 270.5 | 18.0 | 12.8 | 11.4 | 11.0 | 10.8 |
| 272 | 7-Aug 19:00 | 7-Aug 20:00 | 271.5 | 17.5 | 14.3 | 13.7 | 13.4 | 12.9 |
| 273 | 7-Aug 20:00 | 7-Aug 21:00 | 272.5 | 13.4 | 12.7 | 12.8 | 13.0 | 12.9 |
| 274 | 7-Aug 21:00 | 7-Aug 22:00 | 273.5 | 10.9 | 10.7 | 11.2 | 11.8 | 12.1 |
| 275 | 7-Aug 22:00 | 7-Aug 23:00 | 274.5 | 10.1 | 10.0 | 10.4 | 11.0 | 11.4 |
| 276 | 7-Aug 23:00 | 8-Aug 00:00 | 275.5 | 9.5 | 9.3 | 9.8 | 10.4 | 10.9 |
| 277 | 8-Aug 00:00 | 8-Aug 01:00 | 276.5 | 9.2 | 9.0 | 9.5 | 10.0 | 10.5 |
| 278 | 8-Aug 01:00 | 8-Aug 02:00 | 277.5 | 8.9 | 8.8 | 9.3 | 9.6 | 10.0 |
| 279 | 8-Aug 02:00 | 8-Aug 03:00 | 278.5 | 8.7 | 8.6 | 8.9 | 9.3 | 9.5 |
| 280 | 8-Aug 03:00 | 8-Aug 04:00 | 279.5 | 8.4 | 8.3 | 8.6 | 8.9 | 9.1 |
| 281 | 8-Aug 04:00 | 8-Aug 05:00 | 280.5 | 8.1 | 8.0 | 8.2 | 8.5 | 8.7 |
| 282 | 8-Aug 05:00 | 8-Aug 06:00 | 281.5 | 8.6 | 8.3 | 8.4 | 8.6 | 8.7 |
| 283 | 8-Aug 06:00 | 8-Aug 07:00 | 282.5 | 10.0 | 9.7 | 9.7 | 9.7 | 9.6 |
| 284 | 8-Aug 07:00 | 8-Aug 08:00 | 283.5 | 11.4 | 11.3 | 11.1 | 11.1 | 11.0 |
| 285 | 8-Aug 08:00 | 8-Aug 09:00 | 284.5 | 12.8 | 12.7 | 12.3 | 12.2 | 12.0 |
| 286 | 8-Aug 09:00 | 8-Aug 10:00 | 285.5 | 14.0 | 13.6 | 12.8 | 12.5 | 12.4 |
| 287 | 8-Aug 10:00 | 8-Aug 11:00 | 286.5 | 14.5 | 13.4 | 12.5 | 12.2 | 12.0 |
| 288 | 8-Aug 11:00 | 8-Aug 12:00 | 287.5 | 15.7 | 13.6 | 12.5 | 12.3 | 12.1 |
| 289 | 8-Aug 12:00 | 8-Aug 13:00 | 288.5 | 19.0 | 13.7 | 12.7 | 12.5 | 12.2 |
| 290 | 8-Aug 13:00 | 8-Aug 14:00 | 289.5 | 20.9 | 14.1 | 12.7 | 12.5 | 12.2 |
| 291 | 8-Aug 14:00 | 8-Aug 15:00 | 290.5 | 22.5 | 13.4 | 12.1 | 11.8 | 11.5 |
| 292 | 8-Aug 15:00 | 8-Aug 16:00 | 291.5 | 22.0 | 12.8 | 11.7 | 11.3 | 11.1 |
| 293 | 8-Aug 16:00 | 8-Aug 17:00 | 292.5 | 21.8 | 13.0 | 11.8 | 11.5 | 11.2 |
| 294 | 8-Aug 17:00 | 8-Aug 18:00 | 293.5 | 20.9 | 13.2 | 12.1 | 11.7 | 11.5 |
| 295 | 8-Aug 18:00 | 8-Aug 19:00 | 294.5 | 20.6 | 14.8 | 13.9 | 13.6 | 13.2 |
| 296 | 8-Aug 19:00 | 8-Aug 20:00 | 295.5 | 18.9 | 16.8 | 16.5 | 16.4 | 15.8 |
| 297 | 8-Aug 20:00 | 8-Aug 21:00 | 296.5 | 16.7 | 15.6 | 15.4 | 15.5 | 15.2 |
| 298 | 8-Aug 21:00 | 8-Aug 22:00 | 297.5 | 15.6 | 14.4 | 14.0 | 14.0 | 13.8 |
| 299 | 8-Aug 22:00 | 8-Aug 23:00 | 298.5 | 15.2 | 13.8 | 13.4 | 13.4 | 13.2 |
| 300 | 8-Aug 23:00 | 9-Aug 00:00 | 299.5 | 15.5 | 14.7 | 14.6 | 14.7 | 14.5 |

Table A.5 Absolute humidity in air at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Absolute humidity (g/m$^3$) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 301 | 9-Aug 00:00 | 9-Aug 01:00 | 300.5 | 15.4 | 14.8 | 14.8 | 14.8 | 14.7 |
| 302 | 9-Aug 01:00 | 9-Aug 02:00 | 301.5 | 15.0 | 14.4 | 14.2 | 14.2 | 14.1 |
| 303 | 9-Aug 02:00 | 9-Aug 03:00 | 302.5 | 14.8 | 14.3 | 14.3 | 14.1 | 14.0 |
| 304 | 9-Aug 03:00 | 9-Aug 04:00 | 303.5 | 15.0 | 14.6 | 14.7 | 14.4 | 14.4 |
| 305 | 9-Aug 04:00 | 9-Aug 05:00 | 304.5 | 14.7 | 14.4 | 14.4 | 14.2 | 14.2 |
| 306 | 9-Aug 05:00 | 9-Aug 06:00 | 305.5 | 14.4 | 14.1 | 14.2 | 14.1 | 14.0 |
| 307 | 9-Aug 06:00 | 9-Aug 07:00 | 306.5 | 13.9 | 13.6 | 13.8 | 13.7 | 13.8 |
| 308 | 9-Aug 07:00 | 9-Aug 08:00 | 307.5 | 14.8 | 14.6 | 14.5 | 14.4 | 14.2 |
| 309 | 9-Aug 08:00 | 9-Aug 09:00 | 308.5 | 15.3 | 15.2 | 15.0 | 14.8 | 14.6 |
| 310 | 9-Aug 09:00 | 9-Aug 10:00 | 309.5 | 13.1 | 12.8 | 12.7 | 12.3 | 12.3 |
| 311 | 9-Aug 10:00 | 9-Aug 11:00 | 310.5 | 12.5 | 11.9 | 11.7 | 11.4 | 11.3 |
| 312 | 9-Aug 11:00 | 9-Aug 12:00 | 311.5 | 11.8 | 11.2 | 10.9 | 10.7 | 10.6 |
| 313 | 9-Aug 12:00 | 9-Aug 13:00 | 312.5 | 11.3 | 10.6 | 10.4 | 10.3 | 10.2 |
| 314 | 9-Aug 13:00 | 9-Aug 14:00 | 313.5 | 11.8 | 10.3 | 10.0 | 9.9 | 9.8 |
| 315 | 9-Aug 14:00 | 9-Aug 15:00 | 314.5 | 12.8 | 10.2 | 9.8 | 9.7 | 9.6 |
| 316 | 9-Aug 15:00 | 9-Aug 16:00 | 315.5 | 13.2 | 10.1 | 9.8 | 9.7 | 9.6 |
| 317 | 9-Aug 16:00 | 9-Aug 17:00 | 316.5 | 12.5 | 9.7 | 9.5 | 9.4 | 9.3 |
| 318 | 9-Aug 17:00 | 9-Aug 18:00 | 317.5 | 13.3 | 9.6 | 9.3 | 9.1 | 9.0 |
| 319 | 9-Aug 18:00 | 9-Aug 19:00 | 318.5 | 12.6 | 9.6 | 9.4 | 9.3 | 9.2 |
| 320 | 9-Aug 19:00 | 9-Aug 20:00 | 319.5 | 13.2 | 9.8 | 9.5 | 9.4 | 9.3 |
| 321 | 9-Aug 20:00 | 9-Aug 21:00 | 320.5 | 10.7 | 9.7 | 9.7 | 9.9 | 9.8 |
| 322 | 9-Aug 21:00 | 9-Aug 22:00 | 321.5 | 8.8 | 8.5 | 9.0 | 9.2 | 9.4 |
| 323 | 9-Aug 22:00 | 9-Aug 23:00 | 322.5 | 7.9 | 7.7 | 8.1 | 8.5 | 8.8 |
| 324 | 9-Aug 23:00 | 10-Aug 00:00 | 323.5 | 7.4 | 7.2 | 7.7 | 7.9 | 8.2 |
| 325 | 10-Aug 00:00 | 10-Aug 01:00 | 324.5 | 7.1 | 6.9 | 7.3 | 7.5 | 7.8 |
| 326 | 10-Aug 01:00 | 10-Aug 02:00 | 325.5 | 6.8 | 6.6 | 7.1 | 7.3 | 7.6 |
| 327 | 10-Aug 02:00 | 10-Aug 03:00 | 326.5 | 6.7 | 6.5 | 7.0 | 7.2 | 7.4 |
| 328 | 10-Aug 03:00 | 10-Aug 04:00 | 327.5 | 6.5 | 6.3 | 6.6 | 6.7 | 6.9 |
| 329 | 10-Aug 04:00 | 10-Aug 05:00 | 328.5 | 6.5 | 6.3 | 6.6 | 6.7 | 6.9 |
| 330 | 10-Aug 05:00 | 10-Aug 06:00 | 329.5 | 6.1 | 5.9 | 6.2 | 6.4 | 6.6 |
| 331 | 10-Aug 06:00 | 10-Aug 07:00 | 330.5 | 6.2 | 6.0 | 6.3 | 6.4 | 6.9 |
| 332 | 10-Aug 07:00 | 10-Aug 08:00 | 331.5 | 8.0 | 8.1 | 8.1 | 8.0 | 8.1 |
| 333 | 10-Aug 08:00 | 10-Aug 09:00 | 332.5 | 9.2 | 9.1 | 8.8 | 8.5 | 8.8 |

Table A.6 Evapo-transpiration rate

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Evapo-transpiration rate ($g \cdot m^{-2} \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.1-0.5 m | 0.5-1.0 m | 1.0-1.5 m | 1.5-2.5 m |
| 1 | 27-Jul 12:00 | 27-Jul 13:00 | 0.5 | 3.40E-01 | 2.68E-01 | 2.06E-01 | 1.86E-01 |
| 2 | 27-Jul 13:00 | 27-Jul 14:00 | 1.5 | n.m. | n.m. | n.m. | n.m. |
| 3 | 27-Jul 14:00 | 27-Jul 15:00 | 2.5 | 2.74E-01 | 2.05E-01 | 1.03E-01 | 1.52E-01 |
| 4 | 27-Jul 15:00 | 27-Jul 16:00 | 3.5 | 1.68E-01 | 1.38E-01 | -1.80E+00 | 9.64E-02 |
| 5 | 27-Jul 16:00 | 27-Jul 17:00 | 4.5 | 1.66E-01 | 1.26E-01 | 4.18E-01 | 1.01E-01 |
| 6 | 27-Jul 17:00 | 27-Jul 18:00 | 5.5 | 6.33E-02 | 5.45E-02 | 9.19E-02 | 4.02E-02 |
| 7 | 27-Jul 18:00 | 27-Jul 19:00 | 6.5 | 6.56E-02 | 5.20E-02 | 1.51E-01 | 4.01E-02 |
| 8 | 27-Jul 19:00 | 27-Jul 20:00 | 7.5 | 2.81E-02 | 2.45E-02 | 4.99E-02 | 2.20E-02 |
| 9 | 27-Jul 20:00 | 27-Jul 21:00 | 8.5 | -1.79E-03 | 8.63E-03 | -1.56E-03 | -2.00E-03 |
| 10 | 27-Jul 21:00 | 27-Jul 22:00 | 9.5 | 2.77E-03 | 5.26E-04 | 2.24E-03 | -1.99E-03 |
| 11 | 27-Jul 22:00 | 27-Jul 23:00 | 10.5 | n.m. | n.m. | n.m. | n.m. |
| 12 | 27-Jul 23:00 | 28-Jul 00:00 | 11.5 | 3.74E-03 | 1.23E-03 | 2.12E-03 | 1.78E-03 |
| 13 | 28-Jul 00:00 | 28-Jul 01:00 | 12.5 | 2.99E-03 | 1.23E-03 | 2.05E-03 | 1.90E-03 |
| 14 | 28-Jul 01:00 | 28-Jul 02:00 | 13.5 | -7.24E-04 | -2.88E-04 | -3.56E-04 | -3.46E-04 |
| 15 | 28-Jul 02:00 | 28-Jul 03:00 | 14.5 | -2.50E-03 | -7.76E-04 | -1.12E-03 | -1.10E-03 |
| 16 | 28-Jul 03:00 | 28-Jul 04:00 | 15.5 | 2.26E-04 | 7.93E-05 | 9.68E-05 | 9.40E-05 |
| 17 | 28-Jul 04:00 | 28-Jul 05:00 | 16.5 | 4.79E-03 | 2.14E-03 | 2.40E-03 | 2.22E-03 |
| 18 | 28-Jul 05:00 | 28-Jul 06:00 | 17.5 | 1.58E-03 | 9.42E-04 | -1.32E-03 | 9.35E-04 |
| 19 | 28-Jul 06:00 | 28-Jul 07:00 | 18.5 | 9.26E-03 | 6.45E-03 | 1.08E-02 | 7.47E-03 |
| 20 | 28-Jul 07:00 | 28-Jul 08:00 | 19.5 | 2.62E-02 | 2.18E-02 | 3.00E-02 | 2.20E-02 |
| 21 | 28-Jul 08:00 | 28-Jul 09:00 | 20.5 | 1.90E-02 | 4.23E-02 | 2.64E-02 | 1.00E-02 |
| 22 | 28-Jul 09:00 | 28-Jul 10:00 | 21.5 | 6.62E-02 | 7.43E-02 | 5.97E-02 | 4.90E-02 |
| 23 | 28-Jul 10:00 | 28-Jul 11:00 | 22.5 | 1.51E-01 | 1.62E-01 | 7.48E-02 | 8.00E-02 |
| 24 | 28-Jul 11:00 | 28-Jul 12:00 | 23.5 | 2.18E-01 | 1.53E-01 | 6.51E-02 | 1.06E-01 |
| 25 | 28-Jul 12:00 | 28-Jul 13:00 | 24.5 | 2.46E-01 | 1.79E-01 | 1.38E-01 | 1.24E-01 |
| 26 | 28-Jul 13:00 | 28-Jul 14:00 | 25.5 | 2.52E-01 | 1.93E-01 | 1.87E-01 | 1.44E-01 |
| 27 | 28-Jul 14:00 | 28-Jul 15:00 | 26.5 | 2.58E-01 | 1.75E-01 | 4.72E-01 | 1.40E-01 |
| 28 | 28-Jul 15:00 | 28-Jul 16:00 | 27.5 | 1.08E-01 | 9.25E-02 | 1.35E-01 | 6.38E-02 |
| 29 | 28-Jul 16:00 | 28-Jul 17:00 | 28.5 | 4.91E-02 | 4.75E-02 | -1.56E-01 | 4.72E-02 |
| 30 | 28-Jul 17:00 | 28-Jul 18:00 | 29.5 | 7.14E-02 | 5.51E-02 | 6.98E-02 | 4.13E-02 |
| 31 | 28-Jul 18:00 | 28-Jul 19:00 | 30.5 | 1.93E-02 | 1.81E-02 | 1.10E-02 | 1.27E-02 |
| 32 | 28-Jul 19:00 | 28-Jul 20:00 | 31.5 | 1.83E-02 | 1.50E-02 | 1.29E-02 | 1.29E-02 |
| 33 | 28-Jul 20:00 | 28-Jul 21:00 | 32.5 | -9.95E-03 | -7.10E-03 | -8.06E-03 | -1.40E-02 |
| 34 | 28-Jul 21:00 | 28-Jul 22:00 | 33.5 | -5.71E-03 | -1.81E-03 | -2.58E-03 | -2.11E-03 |
| 35 | 28-Jul 22:00 | 28-Jul 23:00 | 34.5 | -1.39E-03 | -6.65E-04 | -8.86E-04 | -7.98E-04 |
| 36 | 28-Jul 23:00 | 29-Jul 00:00 | 35.5 | -5.77E-03 | -1.45E-03 | -1.44E-03 | -1.53E-03 |
| 37 | 29-Jul 00:00 | 29-Jul 01:00 | 36.5 | -4.40E-03 | -2.00E-03 | -1.79E-03 | -2.18E-03 |
| 38 | 29-Jul 01:00 | 29-Jul 02:00 | 37.5 | -1.05E-03 | -4.50E-04 | -5.08E-04 | -4.98E-04 |
| 39 | 29-Jul 02:00 | 29-Jul 03:00 | 38.5 | -9.25E-04 | -3.27E-04 | -4.17E-04 | -3.77E-04 |
| 40 | 29-Jul 03:00 | 29-Jul 04:00 | 39.5 | -2.38E-04 | -5.16E-05 | -7.65E-05 | -6.45E-05 |
| 41 | 29-Jul 04:00 | 29-Jul 05:00 | 40.5 | -3.46E-05 | -1.06E-05 | -1.55E-05 | -1.33E-05 |
| 42 | 29-Jul 05:00 | 29-Jul 06:00 | 41.5 | 7.26E-04 | 2.51E-04 | 3.35E-04 | 2.86E-04 |
| 43 | 29-Jul 06:00 | 29-Jul 07:00 | 42.5 | 8.38E-03 | 3.87E-03 | 5.57E-03 | 4.66E-03 |
| 44 | 29-Jul 07:00 | 29-Jul 08:00 | 43.5 | 2.55E-02 | -2.45E-02 | -3.60E-02 | 1.94E-02 |
| 45 | 29-Jul 08:00 | 29-Jul 09:00 | 44.5 | -2.66E-04 | 8.90E-02 | 3.79E-02 | -4.98E-03 |
| 46 | 29-Jul 09:00 | 29-Jul 10:00 | 45.5 | 2.32E-01 | 1.40E-01 | 9.94E-02 | 7.11E-02 |
| 47 | 29-Jul 10:00 | 29-Jul 11:00 | 46.5 | 1.78E-01 | 1.59E-01 | 9.91E-02 | 8.53E-02 |
| 48 | 29-Jul 11:00 | 29-Jul 12:00 | 47.5 | 2.05E-01 | 1.51E-01 | 1.93E-01 | 9.22E-02 |
| 49 | 29-Jul 12:00 | 29-Jul 13:00 | 48.5 | 2.07E-01 | 1.63E-01 | 2.07E-01 | 1.03E-01 |
| 50 | 29-Jul 13:00 | 29-Jul 14:00 | 49.5 | 2.10E-01 | 1.73E-01 | 3.70E-01 | 1.08E-01 |

n.m.: not measured

Table A.6 Evapo-transpiration rate (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Evapo-transpiration rate ($g \cdot m^{-2} \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.1-0.5 m | 0.5-1.0 m | 1.0-1.5 m | 1.5-2.5 m |
| 51 | 29-Jul 14:00 | 29-Jul 15:00 | 50.5 | 2.12E-01 | 1.66E-01 | 5.95E-01 | 1.10E-01 |
| 52 | 29-Jul 15:00 | 29-Jul 16:00 | 51.5 | 1.62E-01 | 1.38E-01 | 3.60E-01 | 7.81E-02 |
| 53 | 29-Jul 16:00 | 29-Jul 17:00 | 52.5 | 1.18E-01 | 1.04E-01 | 1.62E-01 | 8.21E-02 |
| 54 | 29-Jul 17:00 | 29-Jul 18:00 | 53.5 | 5.10E-02 | 4.95E-02 | 5.83E-02 | 3.91E-02 |
| 55 | 29-Jul 18:00 | 29-Jul 19:00 | 54.5 | 3.15E-02 | 3.63E-02 | 6.02E-02 | 2.71E-02 |
| 56 | 29-Jul 19:00 | 29-Jul 20:00 | 55.5 | 5.84E-03 | 8.16E-03 | -2.86E-03 | 4.99E-03 |
| 57 | 29-Jul 20:00 | 29-Jul 21:00 | 56.5 | -2.12E-03 | -3.52E-03 | -1.37E-03 | -2.06E-03 |
| 58 | 29-Jul 21:00 | 29-Jul 22:00 | 57.5 | -1.98E-03 | 1.05E-02 | -7.78E-04 | -3.24E-03 |
| 59 | 29-Jul 22:00 | 29-Jul 23:00 | 58.5 | -7.81E-04 | -6.01E-05 | -5.07E-04 | 1.01E-03 |
| 60 | 29-Jul 23:00 | 30-Jul 00:00 | 59.5 | -9.29E-03 | -3.37E-03 | -4.30E-03 | -3.40E-03 |
| 61 | 30-Jul 00:00 | 30-Jul 01:00 | 60.5 | -6.20E-03 | -2.77E-03 | -2.51E-03 | -2.90E-03 |
| 62 | 30-Jul 01:00 | 30-Jul 02:00 | 61.5 | -3.35E-03 | -1.20E-03 | -1.20E-03 | -1.36E-03 |
| 63 | 30-Jul 02:00 | 30-Jul 03:00 | 62.5 | -1.90E-03 | -8.43E-04 | -8.46E-04 | -9.62E-04 |
| 64 | 30-Jul 03:00 | 30-Jul 04:00 | 63.5 | -1.44E-03 | -6.07E-04 | -6.70E-04 | -7.23E-04 |
| 65 | 30-Jul 04:00 | 30-Jul 05:00 | 64.5 | -1.20E-03 | -4.67E-04 | -5.45E-04 | -5.73E-04 |
| 66 | 30-Jul 05:00 | 30-Jul 06:00 | 65.5 | -1.11E-03 | -4.63E-04 | -5.41E-04 | -5.82E-04 |
| 67 | 30-Jul 06:00 | 30-Jul 07:00 | 66.5 | 8.08E-03 | 4.51E-03 | 5.74E-03 | 6.56E-03 |
| 68 | 30-Jul 07:00 | 30-Jul 08:00 | 67.5 | 1.41E-02 | 3.50E-02 | 3.25E-02 | 9.70E-03 |
| 69 | 30-Jul 08:00 | 30-Jul 09:00 | 68.5 | 1.78E-02 | 3.51E-02 | 2.74E-02 | 1.01E-02 |
| 70 | 30-Jul 09:00 | 30-Jul 10:00 | 69.5 | 1.59E-02 | 2.98E-02 | 2.02E-02 | 1.06E-02 |
| 71 | 30-Jul 10:00 | 30-Jul 11:00 | 70.5 | 1.91E-02 | 2.76E-02 | 1.99E-02 | 1.17E-02 |
| 72 | 30-Jul 11:00 | 30-Jul 12:00 | 71.5 | 1.49E-02 | 1.00E-02 | 1.35E-02 | 1.27E-02 |
| 73 | 30-Jul 12:00 | 30-Jul 13:00 | 72.5 | 2.78E-02 | 2.26E-02 | 2.83E-02 | 2.06E-02 |
| 74 | 30-Jul 13:00 | 30-Jul 14:00 | 73.5 | 5.55E-02 | 4.55E-02 | 4.30E-02 | 3.34E-02 |
| 75 | 30-Jul 14:00 | 30-Jul 15:00 | 74.5 | 2.91E-02 | 2.48E-02 | 3.06E-02 | 1.66E-02 |
| 76 | 30-Jul 15:00 | 30-Jul 16:00 | 75.5 | 5.03E-02 | 4.06E-02 | 4.87E-02 | 2.88E-02 |
| 77 | 30-Jul 16:00 | 30-Jul 17:00 | 76.5 | 7.78E-02 | 6.82E-02 | 9.57E-02 | 4.87E-02 |
| 78 | 30-Jul 17:00 | 30-Jul 18:00 | 77.5 | 6.90E-02 | 5.68E-02 | 6.49E-02 | 4.38E-02 |
| 79 | 30-Jul 18:00 | 30-Jul 19:00 | 78.5 | 4.96E-02 | 3.59E-02 | 5.04E-02 | 3.18E-02 |
| 80 | 30-Jul 19:00 | 30-Jul 20:00 | 79.5 | 1.19E-02 | 9.09E-03 | 7.83E-03 | 7.72E-03 |
| 81 | 30-Jul 20:00 | 30-Jul 21:00 | 80.5 | -3.71E-03 | -2.96E-03 | -3.78E-03 | -3.93E-03 |
| 82 | 30-Jul 21:00 | 30-Jul 22:00 | 81.5 | -1.10E-02 | -3.18E-03 | -4.20E-03 | -3.66E-03 |
| 83 | 30-Jul 22:00 | 30-Jul 23:00 | 82.5 | -6.48E-03 | -8.08E-04 | -8.65E-04 | -8.36E-04 |
| 84 | 30-Jul 23:00 | 31-Jul 00:00 | 83.5 | -8.10E-04 | -4.27E-04 | -4.19E-04 | -4.53E-04 |
| 85 | 31-Jul 00:00 | 31-Jul 01:00 | 84.5 | -2.70E-03 | -9.98E-04 | -1.06E-03 | -1.09E-03 |
| 86 | 31-Jul 01:00 | 31-Jul 02:00 | 85.5 | -1.27E-03 | -5.00E-04 | -5.70E-04 | -5.64E-04 |
| 87 | 31-Jul 02:00 | 31-Jul 03:00 | 86.5 | -2.47E-03 | -1.31E-03 | -1.51E-03 | -1.51E-03 |
| 88 | 31-Jul 03:00 | 31-Jul 04:00 | 87.5 | 1.10E-03 | 5.71E-04 | 6.65E-04 | 6.37E-04 |
| 89 | 31-Jul 04:00 | 31-Jul 05:00 | 88.5 | 6.50E-04 | 3.77E-04 | 4.84E-04 | 3.99E-04 |
| 90 | 31-Jul 05:00 | 31-Jul 06:00 | 89.5 | -2.10E-04 | -1.25E-04 | -1.62E-04 | -1.35E-04 |
| 91 | 31-Jul 06:00 | 31-Jul 07:00 | 90.5 | 3.38E-03 | 1.58E-03 | 3.08E-03 | 3.06E-03 |
| 92 | 31-Jul 07:00 | 31-Jul 08:00 | 91.5 | 1.88E-02 | 1.65E-02 | 1.07E-02 | 1.71E-02 |
| 93 | 31-Jul 08:00 | 31-Jul 09:00 | 92.5 | 3.16E-02 | 3.22E-02 | 3.20E-02 | 1.41E-02 |
| 94 | 31-Jul 09:00 | 31-Jul 10:00 | 93.5 | 5.16E-02 | 5.28E-02 | 4.62E-02 | 4.45E-02 |
| 95 | 31-Jul 10:00 | 31-Jul 11:00 | 94.5 | 1.28E-01 | 1.20E-01 | 3.17E-02 | 4.95E-02 |
| 96 | 31-Jul 11:00 | 31-Jul 12:00 | 95.5 | 1.85E-01 | 1.21E-01 | 8.42E-02 | 1.00E-01 |
| 97 | 31-Jul 12:00 | 31-Jul 13:00 | 96.5 | 1.81E-01 | 1.33E-01 | 1.33E-01 | 9.41E-02 |
| 98 | 31-Jul 13:00 | 31-Jul 14:00 | 97.5 | 2.19E-01 | 1.70E-01 | 2.53E-01 | 1.10E-01 |
| 99 | 31-Jul 14:00 | 31-Jul 15:00 | 98.5 | 2.11E-01 | 1.53E-01 | 3.05E-01 | 1.05E-01 |
| 100 | 31-Jul 15:00 | 31-Jul 16:00 | 99.5 | 1.90E-01 | 1.41E-01 | 3.06E-01 | 9.56E-02 |

Table A.6 Evapo-transpiration rate (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Evapo-transpiration rate ($g \cdot m^{-2} \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.1-0.5 m | 0.5-1.0 m | 1.0-1.5 m | 1.5-2.5 m |
| 101 | 31-Jul 16:00 | 31-Jul 17:00 | 100.5 | 1.30E-01 | 1.05E-01 | 1.78E-01 | 6.95E-02 |
| 102 | 31-Jul 17:00 | 31-Jul 18:00 | 101.5 | 6.66E-02 | 6.28E-02 | 9.40E-02 | 3.88E-02 |
| 103 | 31-Jul 18:00 | 31-Jul 19:00 | 102.5 | 4.15E-02 | 4.15E-02 | 6.36E-02 | 2.44E-02 |
| 104 | 31-Jul 19:00 | 31-Jul 20:00 | 103.5 | 3.28E-03 | 3.86E-03 | 4.23E-03 | 3.02E-03 |
| 105 | 31-Jul 20:00 | 31-Jul 21:00 | 104.5 | -7.24E-03 | -2.35E-03 | -4.50E-03 | -3.24E-01 |
| 106 | 31-Jul 21:00 | 31-Jul 22:00 | 105.5 | -6.79E-03 | -3.06E-03 | -3.75E-03 | -2.10E-03 |
| 107 | 31-Jul 22:00 | 31-Jul 23:00 | 106.5 | -4.23E-03 | -1.50E-03 | -1.82E-03 | -1.36E-03 |
| 108 | 31-Jul 23:00 | 1-Aug 00:00 | 107.5 | -1.39E-03 | -4.68E-04 | -5.15E-04 | -4.20E-04 |
| 109 | 1-Aug 00:00 | 1-Aug 01:00 | 108.5 | -2.00E-03 | -6.15E-04 | -6.61E-04 | -6.19E-04 |
| 110 | 1-Aug 01:00 | 1-Aug 02:00 | 109.5 | -1.02E-03 | -4.82E-04 | -4.50E-04 | -4.84E-04 |
| 111 | 1-Aug 02:00 | 1-Aug 03:00 | 110.5 | -1.75E-03 | -7.10E-04 | -6.56E-04 | -7.20E-04 |
| 112 | 1-Aug 03:00 | 1-Aug 04:00 | 111.5 | -2.87E-04 | -1.55E-04 | -1.46E-04 | -1.62E-04 |
| 113 | 1-Aug 04:00 | 1-Aug 05:00 | 112.5 | 1.31E-03 | 6.76E-04 | 5.98E-04 | 6.58E-04 |
| 114 | 1-Aug 05:00 | 1-Aug 06:00 | 113.5 | 2.07E-03 | 1.51E-03 | 5.15E-04 | 9.80E-04 |
| 115 | 1-Aug 06:00 | 1-Aug 07:00 | 114.5 | 2.39E-03 | 1.41E-03 | 1.02E-03 | 1.83E-03 |
| 116 | 1-Aug 07:00 | 1-Aug 08:00 | 115.5 | 1.16E-02 | 1.33E-02 | 1.64E-02 | 1.04E-02 |
| 117 | 1-Aug 08:00 | 1-Aug 09:00 | 116.5 | 9.40E-02 | 4.05E-02 | 4.97E-02 | 3.51E-02 |
| 118 | 1-Aug 09:00 | 1-Aug 10:00 | 117.5 | 1.67E-01 | 7.92E-02 | 7.80E-02 | 5.83E-02 |
| 119 | 1-Aug 10:00 | 1-Aug 11:00 | 118.5 | 1.57E-01 | 1.14E-01 | 8.09E-02 | 7.76E-02 |
| 120 | 1-Aug 11:00 | 1-Aug 12:00 | 119.5 | 1.40E-01 | 1.03E-01 | 1.15E-01 | 7.21E-02 |
| 121 | 1-Aug 12:00 | 1-Aug 13:00 | 120.5 | 2.40E-01 | 1.78E-01 | 2.11E-01 | 1.26E-01 |
| 122 | 1-Aug 13:00 | 1-Aug 14:00 | 121.5 | 8.53E-02 | 9.44E-02 | 8.74E-02 | 5.00E-02 |
| 123 | 1-Aug 14:00 | 1-Aug 15:00 | 122.5 | 2.57E-02 | 4.25E-02 | -3.15E-01 | 3.04E-02 |
| 124 | 1-Aug 15:00 | 1-Aug 16:00 | 123.5 | 1.51E-02 | 1.34E-02 | 6.56E-03 | 1.33E-02 |
| 125 | 1-Aug 16:00 | 1-Aug 17:00 | 124.5 | 4.32E-02 | 4.32E-02 | 4.69E-02 | 4.61E-02 |
| 126 | 1-Aug 17:00 | 1-Aug 18:00 | 125.5 | 5.63E-02 | 3.81E-02 | 4.61E-02 | 2.97E-02 |
| 127 | 1-Aug 18:00 | 1-Aug 19:00 | 126.5 | 2.23E-02 | 1.69E-02 | 1.44E-02 | 1.23E-02 |
| 128 | 1-Aug 19:00 | 1-Aug 20:00 | 127.5 | 1.20E-02 | 1.06E-02 | 1.35E-02 | 7.33E-03 |
| 129 | 1-Aug 20:00 | 1-Aug 21:00 | 128.5 | -3.91E-03 | 3.13E-02 | -2.90E-03 | -3.60E-03 |
| 130 | 1-Aug 21:00 | 1-Aug 22:00 | 129.5 | -3.60E-03 | -2.20E-03 | -3.33E-03 | -3.67E-03 |
| 131 | 1-Aug 22:00 | 1-Aug 23:00 | 130.5 | 1.44E-03 | 7.02E-04 | 1.20E-03 | 1.39E-03 |
| 132 | 1-Aug 23:00 | 2-Aug 00:00 | 131.5 | 9.86E-04 | -7.47E-04 | -4.22E-03 | 6.84E-04 |
| 133 | 2-Aug 00:00 | 2-Aug 01:00 | 132.5 | 1.09E-03 | -6.08E-03 | 1.66E-03 | 7.94E-04 |
| 134 | 2-Aug 01:00 | 2-Aug 02:00 | 133.5 | 7.23E-03 | 2.35E-02 | -2.09E+00 | 5.11E-03 |
| 135 | 2-Aug 02:00 | 2-Aug 03:00 | 134.5 | 7.99E-03 | 1.11E-02 | -2.52E+00 | 5.04E-03 |
| 136 | 2-Aug 03:00 | 2-Aug 04:00 | 135.5 | 8.50E-03 | 1.20E-02 | 1.25E-02 | 5.89E-03 |
| 137 | 2-Aug 04:00 | 2-Aug 05:00 | 136.5 | 9.00E-03 | 1.58E-02 | 1.24E-02 | 6.32E-03 |
| 138 | 2-Aug 05:00 | 2-Aug 06:00 | 137.5 | 8.84E-03 | 8.48E-03 | -7.83E-03 | 4.51E-03 |
| 139 | 2-Aug 06:00 | 2-Aug 07:00 | 138.5 | 9.85E-03 | 1.18E-02 | 7.52E-02 | 6.54E-03 |
| 140 | 2-Aug 07:00 | 2-Aug 08:00 | 139.5 | 1.83E-02 | 2.93E-02 | 1.72E-02 | 2.16E-02 |
| 141 | 2-Aug 08:00 | 2-Aug 09:00 | 140.5 | 2.22E-02 | 2.41E-02 | 1.63E-02 | 1.68E-02 |
| 142 | 2-Aug 09:00 | 2-Aug 10:00 | 141.5 | 4.66E-02 | 4.54E-02 | 2.54E-02 | 3.40E-02 |
| 143 | 2-Aug 10:00 | 2-Aug 11:00 | 142.5 | 5.29E-02 | 5.54E-02 | 4.95E-02 | 3.55E-02 |
| 144 | 2-Aug 11:00 | 2-Aug 12:00 | 143.5 | 9.09E-02 | 8.57E-02 | 8.10E-02 | 5.42E-02 |
| 145 | 2-Aug 12:00 | 2-Aug 13:00 | 144.5 | 1.06E-01 | 9.01E-02 | 8.38E-02 | 4.97E-02 |
| 146 | 2-Aug 13:00 | 2-Aug 14:00 | 145.5 | 2.30E-01 | 1.74E-01 | 1.29E-01 | 1.37E-01 |
| 147 | 2-Aug 14:00 | 2-Aug 15:00 | 146.5 | 1.91E-01 | 1.41E-01 | 1.67E-01 | 1.10E-01 |
| 148 | 2-Aug 15:00 | 2-Aug 16:00 | 147.5 | 1.59E-01 | 1.23E-01 | 1.87E-01 | 9.58E-02 |
| 149 | 2-Aug 16:00 | 2-Aug 17:00 | 148.5 | 1.13E-01 | 9.33E-02 | 1.07E-01 | 6.52E-02 |
| 150 | 2-Aug 17:00 | 2-Aug 18:00 | 149.5 | 6.64E-02 | 5.72E-02 | 8.27E-02 | 4.65E-02 |

Table A.6 Evapo-transpiration rate (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Evapo-transpiration rate ($g \cdot m^{-2} \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.1-0.5 m | 0.5-1.0 m | 1.0-1.5 m | 1.5-2.5 m |
| 151 | 2-Aug 18:00 | 2-Aug 19:00 | 150.5 | 4.17E-02 | 3.67E-02 | 5.21E-02 | 3.25E-02 |
| 152 | 2-Aug 19:00 | 2-Aug 20:00 | 151.5 | 1.65E-02 | 1.66E-02 | 2.63E-02 | 1.51E-02 |
| 153 | 2-Aug 20:00 | 2-Aug 21:00 | 152.5 | 1.18E-03 | 2.70E-03 | 6.29E-04 | 1.36E-03 |
| 154 | 2-Aug 21:00 | 2-Aug 22:00 | 153.5 | 7.86E-04 | 3.18E-04 | 7.22E-04 | 1.50E-04 |
| 155 | 2-Aug 22:00 | 2-Aug 23:00 | 154.5 | -1.88E-04 | -1.05E-04 | -1.80E-04 | -1.32E-04 |
| 156 | 2-Aug 23:00 | 3-Aug 00:00 | 155.5 | 3.59E-03 | 2.11E-03 | 2.93E-03 | 2.45E-03 |
| 157 | 3-Aug 00:00 | 3-Aug 01:00 | 156.5 | 2.95E-03 | 2.22E-03 | 2.32E-03 | 1.28E-03 |
| 158 | 3-Aug 01:00 | 3-Aug 02:00 | 157.5 | -1.71E-03 | -1.09E-03 | -1.32E-03 | -1.30E-03 |
| 159 | 3-Aug 02:00 | 3-Aug 03:00 | 158.5 | 3.72E-03 | 2.94E-03 | -3.20E-03 | 2.67E-03 |
| 160 | 3-Aug 03:00 | 3-Aug 04:00 | 159.5 | -3.98E-04 | -2.71E-04 | 5.82E-04 | -1.19E-04 |
| 161 | 3-Aug 04:00 | 3-Aug 05:00 | 160.5 | -4.87E-04 | -2.94E-04 | -1.43E-04 | -3.19E-04 |
| 162 | 3-Aug 05:00 | 3-Aug 06:00 | 161.5 | 1.54E-03 | 8.37E-04 | 9.90E-04 | 6.04E-03 |
| 163 | 3-Aug 06:00 | 3-Aug 07:00 | 162.5 | 6.34E-03 | 9.81E-03 | 6.75E-03 | 5.47E-03 |
| 164 | 3-Aug 07:00 | 3-Aug 08:00 | 163.5 | 1.55E-02 | 1.43E-02 | 1.56E-02 | 1.40E-02 |
| 165 | 3-Aug 08:00 | 3-Aug 09:00 | 164.5 | 2.78E-02 | 2.94E-02 | 3.30E-02 | 2.86E-02 |
| 166 | 3-Aug 09:00 | 3-Aug 10:00 | 165.5 | 6.30E-02 | 6.44E-02 | 5.83E-02 | 2.50E-02 |
| 167 | 3-Aug 10:00 | 3-Aug 11:00 | 166.5 | 1.04E-01 | 9.63E-02 | 1.12E-01 | 1.26E-02 |
| 168 | 3-Aug 11:00 | 3-Aug 12:00 | 167.5 | 1.19E-01 | 9.48E-02 | 7.12E-02 | 7.23E-02 |
| 169 | 3-Aug 12:00 | 3-Aug 13:00 | 168.5 | 1.97E-01 | 1.43E-01 | 1.19E-01 | 1.05E-01 |
| 170 | 3-Aug 13:00 | 3-Aug 14:00 | 169.5 | 1.53E-01 | 1.31E-01 | 2.13E-01 | 8.41E-02 |
| 171 | 3-Aug 14:00 | 3-Aug 15:00 | 170.5 | 2.42E-01 | 1.67E-01 | 5.28E-01 | 1.30E-01 |
| 172 | 3-Aug 15:00 | 3-Aug 16:00 | 171.5 | 1.72E-01 | 1.28E-01 | 3.17E-01 | 9.87E-02 |
| 173 | 3-Aug 16:00 | 3-Aug 17:00 | 172.5 | 1.54E-01 | 1.15E-01 | 2.89E-01 | 8.71E-02 |
| 174 | 3-Aug 17:00 | 3-Aug 18:00 | 173.5 | 1.00E-01 | 7.59E-02 | 1.88E-01 | 5.60E-02 |
| 175 | 3-Aug 18:00 | 3-Aug 19:00 | 174.5 | 6.12E-02 | 5.61E-02 | 1.04E-01 | 3.97E-02 |
| 176 | 3-Aug 19:00 | 3-Aug 20:00 | 175.5 | 1.10E-02 | 1.19E-02 | 1.52E-02 | 1.02E-02 |
| 177 | 3-Aug 20:00 | 3-Aug 21:00 | 176.5 | 3.78E-03 | -2.81E-03 | 1.26E-03 | 1.57E-02 |
| 178 | 3-Aug 21:00 | 3-Aug 22:00 | 177.5 | 7.40E-03 | 3.63E-03 | 5.53E-03 | 1.10E-03 |
| 179 | 3-Aug 22:00 | 3-Aug 23:00 | 178.5 | 3.42E-03 | 1.57E-03 | 2.74E-03 | 1.07E-03 |
| 180 | 3-Aug 23:00 | 4-Aug 00:00 | 179.5 | 3.82E-03 | 4.62E-04 | 2.58E-03 | -8.41E-04 |
| 181 | 4-Aug 00:00 | 4-Aug 01:00 | 180.5 | 2.67E-03 | 1.20E-03 | 1.98E-03 | 1.87E-03 |
| 182 | 4-Aug 01:00 | 4-Aug 02:00 | 181.5 | 2.90E-03 | 1.15E-03 | -9.52E-04 | -4.45E-03 |
| 183 | 4-Aug 02:00 | 4-Aug 03:00 | 182.5 | 3.06E-03 | 1.74E-02 | 5.62E-03 | 6.11E-03 |
| 184 | 4-Aug 03:00 | 4-Aug 04:00 | 183.5 | 1.74E-03 | 2.81E-03 | 2.98E-03 | 2.15E-03 |
| 185 | 4-Aug 04:00 | 4-Aug 05:00 | 184.5 | 5.25E-04 | 1.15E-03 | 1.20E-04 | 7.01E-04 |
| 186 | 4-Aug 05:00 | 4-Aug 06:00 | 185.5 | 2.80E-03 | 3.83E-03 | 4.85E-03 | 2.62E-03 |
| 187 | 4-Aug 06:00 | 4-Aug 07:00 | 186.5 | 2.01E-03 | 1.70E-03 | 2.36E-03 | 1.79E-03 |
| 188 | 4-Aug 07:00 | 4-Aug 08:00 | 187.5 | 5.04E-03 | 3.64E-03 | 5.85E-03 | 4.23E-03 |
| 189 | 4-Aug 08:00 | 4-Aug 09:00 | 188.5 | 5.24E-03 | 3.72E-03 | 5.94E-03 | 4.35E-03 |
| 190 | 4-Aug 09:00 | 4-Aug 10:00 | 189.5 | 1.68E-02 | 1.46E-02 | 1.94E-02 | 1.63E-02 |
| 191 | 4-Aug 10:00 | 4-Aug 11:00 | 190.5 | 1.86E-02 | 1.68E-02 | 2.14E-02 | 1.68E-02 |
| 192 | 4-Aug 11:00 | 4-Aug 12:00 | 191.5 | 2.97E-02 | 2.76E-02 | 3.46E-02 | 2.64E-02 |
| 193 | 4-Aug 12:00 | 4-Aug 13:00 | 192.5 | 1.57E-02 | 1.46E-02 | 1.83E-02 | 1.52E-02 |
| 194 | 4-Aug 13:00 | 4-Aug 14:00 | 193.5 | 1.77E-02 | 1.74E-02 | 1.94E-02 | 1.65E-02 |
| 195 | 4-Aug 14:00 | 4-Aug 15:00 | 194.5 | 2.25E-02 | 2.33E-02 | 2.39E-02 | 1.90E-02 |
| 196 | 4-Aug 15:00 | 4-Aug 16:00 | 195.5 | 2.10E-02 | 2.06E-02 | 2.22E-02 | 1.58E-02 |
| 197 | 4-Aug 16:00 | 4-Aug 17:00 | 196.5 | 3.53E-02 | 3.61E-02 | 3.89E-02 | 1.73E-02 |
| 198 | 4-Aug 17:00 | 4-Aug 18:00 | 197.5 | 2.92E-02 | 2.96E-02 | 3.21E-02 | 2.42E-02 |
| 199 | 4-Aug 18:00 | 4-Aug 19:00 | 198.5 | 3.31E-02 | 3.14E-02 | 2.33E-02 | 2.36E-02 |
| 200 | 4-Aug 19:00 | 4-Aug 20:00 | 199.5 | 2.54E-02 | 2.49E-02 | 2.03E-02 | 1.63E-02 |

Table A.6 Evapo-transpiration rate (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Evapo-transpiration rate ($g \cdot m^{-2} \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.1-0.5 m | 0.5-1.0 m | 1.0-1.5 m | 1.5-2.5 m |
| 201 | 4-Aug 20:00 | 4-Aug 21:00 | 200.5 | 1.65E-02 | 2.65E-02 | 1.63E-02 | 1.12E-02 |
| 202 | 4-Aug 21:00 | 4-Aug 22:00 | 201.5 | 1.86E-02 | 2.75E-02 | 1.58E-02 | 1.42E-02 |
| 203 | 4-Aug 22:00 | 4-Aug 23:00 | 202.5 | 1.84E-02 | 3.29E-02 | 1.66E-02 | 1.56E-02 |
| 204 | 4-Aug 23:00 | 5-Aug 00:00 | 203.5 | 1.76E-02 | 2.11E-02 | 1.50E-02 | 1.31E-02 |
| 205 | 5-Aug 00:00 | 5-Aug 01:00 | 204.5 | 1.41E-02 | 2.61E-02 | 1.40E-02 | 1.34E-02 |
| 206 | 5-Aug 01:00 | 5-Aug 02:00 | 205.5 | 1.03E-02 | 2.30E-02 | 1.61E-02 | 9.29E-03 |
| 207 | 5-Aug 02:00 | 5-Aug 03:00 | 206.5 | 8.61E-03 | 2.54E-02 | 1.82E-02 | 7.81E-03 |
| 208 | 5-Aug 03:00 | 5-Aug 04:00 | 207.5 | -6.24E-03 | 2.49E-03 | 7.99E-04 | -2.29E-02 |
| 209 | 5-Aug 04:00 | 5-Aug 05:00 | 208.5 | -8.11E-03 | -1.34E-03 | -4.37E-03 | -1.49E-03 |
| 210 | 5-Aug 05:00 | 5-Aug 06:00 | 209.5 | -6.67E-03 | -1.86E-03 | -5.65E-03 | -2.73E-03 |
| 211 | 5-Aug 06:00 | 5-Aug 07:00 | 210.5 | -2.13E-03 | -7.07E-05 | -9.14E-04 | -5.83E-04 |
| 212 | 5-Aug 07:00 | 5-Aug 08:00 | 211.5 | 2.68E-02 | -1.20E-01 | 2.96E-02 | 1.79E-02 |
| 213 | 5-Aug 08:00 | 5-Aug 09:00 | 212.5 | -1.02E+00 | 1.18E-01 | 6.15E-02 | 5.41E-02 |
| 214 | 5-Aug 09:00 | 5-Aug 10:00 | 213.5 | 3.52E-01 | 1.51E-01 | 9.98E-02 | 8.24E-02 |
| 215 | 5-Aug 10:00 | 5-Aug 11:00 | 214.5 | 1.54E-01 | 1.56E-01 | 7.71E-02 | 1.01E-01 |
| 216 | 5-Aug 11:00 | 5-Aug 12:00 | 215.5 | 2.15E-01 | 1.62E-01 | 1.21E-01 | 1.24E-01 |
| 217 | 5-Aug 12:00 | 5-Aug 13:00 | 216.5 | 1.71E-01 | 1.32E-01 | 1.16E-01 | 1.05E-01 |
| 218 | 5-Aug 13:00 | 5-Aug 14:00 | 217.5 | 1.92E-01 | 1.51E-01 | 1.64E-01 | 1.24E-01 |
| 219 | 5-Aug 14:00 | 5-Aug 15:00 | 218.5 | 1.72E-01 | 1.37E-01 | 1.95E-01 | 1.14E-01 |
| 220 | 5-Aug 15:00 | 5-Aug 16:00 | 219.5 | 1.04E-01 | 9.19E-02 | 1.12E-01 | 6.93E-02 |
| 221 | 5-Aug 16:00 | 5-Aug 17:00 | 220.5 | 8.51E-02 | 7.42E-02 | 8.32E-02 | 6.43E-02 |
| 222 | 5-Aug 17:00 | 5-Aug 18:00 | 221.5 | 6.73E-02 | 5.22E-02 | 7.88E-02 | 4.56E-02 |
| 223 | 5-Aug 18:00 | 5-Aug 19:00 | 222.5 | 6.42E-02 | 5.79E-02 | 7.75E-02 | 4.37E-02 |
| 224 | 5-Aug 19:00 | 5-Aug 20:00 | 223.5 | -3.44E-01 | -4.67E-01 | -5.60E-01 | -3.59E-01 |
| 225 | 5-Aug 20:00 | 5-Aug 21:00 | 224.5 | -6.65E-03 | -1.93E-04 | -6.48E-03 | -3.55E-02 |
| 226 | 5-Aug 21:00 | 5-Aug 22:00 | 225.5 | -2.16E-03 | -9.65E-04 | -1.86E-03 | -1.13E-03 |
| 227 | 5-Aug 22:00 | 5-Aug 23:00 | 226.5 | -6.92E-04 | -3.52E-04 | -5.80E-04 | -4.53E-04 |
| 228 | 5-Aug 23:00 | 6-Aug 00:00 | 227.5 | -7.06E-04 | -2.81E-04 | -4.96E-04 | -3.54E-04 |
| 229 | 6-Aug 00:00 | 6-Aug 01:00 | 228.5 | -7.68E-04 | -2.16E-04 | -4.03E-04 | -2.87E-04 |
| 230 | 6-Aug 01:00 | 6-Aug 02:00 | 229.5 | -1.22E-03 | -6.39E-04 | -7.78E-04 | -7.82E-04 |
| 231 | 6-Aug 02:00 | 6-Aug 03:00 | 230.5 | -6.80E-04 | -3.41E-04 | -4.64E-04 | -3.92E-04 |
| 232 | 6-Aug 03:00 | 6-Aug 04:00 | 231.5 | 4.85E-04 | 2.22E-04 | 3.11E-04 | 2.60E-04 |
| 233 | 6-Aug 04:00 | 6-Aug 05:00 | 232.5 | 2.71E-03 | 1.27E-03 | 1.94E-03 | 1.44E-03 |
| 234 | 6-Aug 05:00 | 6-Aug 06:00 | 233.5 | -3.16E-04 | -9.36E-05 | -2.14E-04 | -1.05E-04 |
| 235 | 6-Aug 06:00 | 6-Aug 07:00 | 234.5 | 3.07E-03 | 9.75E-03 | -1.37E+00 | 3.22E-03 |
| 236 | 6-Aug 07:00 | 6-Aug 08:00 | 235.5 | 1.97E-02 | 2.51E-02 | 4.69E-03 | 1.82E-02 |
| 237 | 6-Aug 08:00 | 6-Aug 09:00 | 236.5 | 3.84E-02 | 4.11E-02 | 3.91E-02 | 3.50E-02 |
| 238 | 6-Aug 09:00 | 6-Aug 10:00 | 237.5 | 8.42E-02 | 8.71E-02 | 6.02E-02 | 3.57E-02 |
| 239 | 6-Aug 10:00 | 6-Aug 11:00 | 238.5 | 1.52E-01 | 1.42E-01 | 8.84E-02 | 2.05E-02 |
| 240 | 6-Aug 11:00 | 6-Aug 12:00 | 239.5 | 1.83E-01 | 1.22E-01 | 7.75E-02 | 7.13E-02 |
| 241 | 6-Aug 12:00 | 6-Aug 13:00 | 240.5 | 1.82E-01 | 1.35E-01 | 9.17E-02 | 8.91E-02 |
| 242 | 6-Aug 13:00 | 6-Aug 14:00 | 241.5 | 1.72E-01 | 1.41E-01 | 1.38E-01 | 9.01E-02 |
| 243 | 6-Aug 14:00 | 6-Aug 15:00 | 242.5 | 1.62E-01 | 1.29E-01 | 1.72E-01 | 8.75E-02 |
| 244 | 6-Aug 15:00 | 6-Aug 16:00 | 243.5 | 1.97E-01 | 1.39E-01 | 3.01E-01 | 9.45E-02 |
| 245 | 6-Aug 16:00 | 6-Aug 17:00 | 244.5 | 8.17E-02 | 7.23E-02 | 8.44E-02 | 4.94E-02 |
| 246 | 6-Aug 17:00 | 6-Aug 18:00 | 245.5 | 6.26E-02 | 5.42E-02 | 7.40E-02 | 4.63E-02 |
| 247 | 6-Aug 18:00 | 6-Aug 19:00 | 246.5 | 3.28E-02 | 2.99E-02 | 4.34E-02 | 2.48E-02 |
| 248 | 6-Aug 19:00 | 6-Aug 20:00 | 247.5 | -2.14E-03 | -2.89E-03 | -4.31E-03 | -2.27E-03 |
| 249 | 6-Aug 20:00 | 6-Aug 21:00 | 248.5 | -6.28E-03 | -6.48E-04 | -5.54E-03 | -2.37E-02 |
| 250 | 6-Aug 21:00 | 6-Aug 22:00 | 249.5 | -2.11E-03 | -8.79E-04 | -1.73E-03 | -1.09E-03 |

Table A.6 Evapo-transpiration rate (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Evapo-transpiration rate ($g \cdot m^{-2} \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.1-0.5 m | 0.5-1.0 m | 1.0-1.5 m | 1.5-2.5 m |
| 251 | 6-Aug 22:00 | 6-Aug 23:00 | 250.5 | 2.95E-03 | 1.27E-03 | 2.44E-03 | 2.15E-03 |
| 252 | 6-Aug 23:00 | 7-Aug 00:00 | 251.5 | -1.44E-03 | -8.75E-04 | -1.29E-03 | -1.19E-03 |
| 253 | 7-Aug 00:00 | 7-Aug 01:00 | 252.5 | -3.20E-03 | -1.02E-03 | -1.55E-03 | -1.42E-03 |
| 254 | 7-Aug 01:00 | 7-Aug 02:00 | 253.5 | -1.47E-03 | -5.85E-04 | -8.43E-04 | -7.98E-04 |
| 255 | 7-Aug 02:00 | 7-Aug 03:00 | 254.5 | -1.04E-03 | -4.42E-04 | -6.15E-04 | -5.97E-04 |
| 256 | 7-Aug 03:00 | 7-Aug 04:00 | 255.5 | -7.67E-04 | -2.48E-04 | -4.95E-04 | -3.97E-04 |
| 257 | 7-Aug 04:00 | 7-Aug 05:00 | 256.5 | 4.13E-04 | 1.52E-04 | 2.75E-04 | 2.06E-04 |
| 258 | 7-Aug 05:00 | 7-Aug 06:00 | 257.5 | 3.86E-03 | 1.42E-03 | 2.90E-03 | 1.82E-03 |
| 259 | 7-Aug 06:00 | 7-Aug 07:00 | 258.5 | 7.78E-03 | 1.21E-02 | 1.19E-02 | 6.15E-03 |
| 260 | 7-Aug 07:00 | 7-Aug 08:00 | 259.5 | 1.77E-02 | 1.58E-02 | 1.21E-02 | 1.35E-02 |
| 261 | 7-Aug 08:00 | 7-Aug 09:00 | 260.5 | 4.52E-02 | 3.92E-02 | 2.73E-02 | 3.67E-02 |
| 262 | 7-Aug 09:00 | 7-Aug 10:00 | 261.5 | 7.01E-02 | 7.56E-02 | 6.80E-02 | 2.58E-02 |
| 263 | 7-Aug 10:00 | 7-Aug 11:00 | 262.5 | 1.49E-01 | 1.29E-01 | 1.75E-01 | 1.64E-02 |
| 264 | 7-Aug 11:00 | 7-Aug 12:00 | 263.5 | 1.68E-01 | 1.20E-01 | 1.02E-01 | 8.78E-02 |
| 265 | 7-Aug 12:00 | 7-Aug 13:00 | 264.5 | 9.17E-02 | 8.20E-02 | 6.75E-02 | 5.47E-02 |
| 266 | 7-Aug 13:00 | 7-Aug 14:00 | 265.5 | 2.38E-01 | 1.81E-01 | 1.63E-01 | 1.19E-01 |
| 267 | 7-Aug 14:00 | 7-Aug 15:00 | 266.5 | 2.32E-01 | 1.70E-01 | 3.43E-01 | 1.08E-01 |
| 268 | 7-Aug 15:00 | 7-Aug 16:00 | 267.5 | 1.50E-01 | 1.19E-01 | 1.95E-01 | 8.02E-02 |
| 269 | 7-Aug 16:00 | 7-Aug 17:00 | 268.5 | 1.54E-01 | 1.17E-01 | 2.08E-01 | 8.02E-02 |
| 270 | 7-Aug 17:00 | 7-Aug 18:00 | 269.5 | 7.01E-02 | 5.85E-02 | 8.88E-02 | 4.02E-02 |
| 271 | 7-Aug 18:00 | 7-Aug 19:00 | 270.5 | 5.40E-02 | 4.56E-02 | 6.61E-02 | 3.40E-02 |
| 272 | 7-Aug 19:00 | 7-Aug 20:00 | 271.5 | 2.31E-03 | 1.85E-03 | 2.56E-03 | 2.19E-03 |
| 273 | 7-Aug 20:00 | 7-Aug 21:00 | 272.5 | -6.98E-03 | -1.48E-03 | -5.22E-03 | 1.59E-02 |
| 274 | 7-Aug 21:00 | 7-Aug 22:00 | 273.5 | -3.16E-04 | -1.51E-04 | -2.45E-04 | -1.95E-04 |
| 275 | 7-Aug 22:00 | 7-Aug 23:00 | 274.5 | 6.56E-04 | 2.67E-04 | 4.59E-04 | 3.66E-04 |
| 276 | 7-Aug 23:00 | 8-Aug 00:00 | 275.5 | 7.21E-04 | 3.48E-04 | 4.99E-04 | 4.41E-04 |
| 277 | 8-Aug 00:00 | 8-Aug 01:00 | 276.5 | -4.15E-04 | -2.19E-04 | -2.62E-04 | -2.63E-04 |
| 278 | 8-Aug 01:00 | 8-Aug 02:00 | 277.5 | -5.58E-04 | -1.80E-04 | -2.64E-04 | -2.31E-04 |
| 279 | 8-Aug 02:00 | 8-Aug 03:00 | 278.5 | -5.80E-04 | -2.24E-04 | -3.43E-04 | -3.05E-04 |
| 280 | 8-Aug 03:00 | 8-Aug 04:00 | 279.5 | -5.30E-04 | -2.06E-04 | -3.31E-04 | -2.83E-04 |
| 281 | 8-Aug 04:00 | 8-Aug 05:00 | 280.5 | 1.41E-04 | 5.20E-05 | 9.41E-05 | 6.97E-05 |
| 282 | 8-Aug 05:00 | 8-Aug 06:00 | 281.5 | 8.55E-03 | 4.55E-03 | 6.16E-03 | 5.55E-03 |
| 283 | 8-Aug 06:00 | 8-Aug 07:00 | 282.5 | 5.10E-03 | 6.49E-03 | 7.24E-03 | 4.56E-03 |
| 284 | 8-Aug 07:00 | 8-Aug 08:00 | 283.5 | 1.53E-02 | 1.61E-02 | 8.51E-03 | 1.36E-02 |
| 285 | 8-Aug 08:00 | 8-Aug 09:00 | 284.5 | 3.67E-02 | 4.45E-02 | 3.90E-02 | 3.87E-02 |
| 286 | 8-Aug 09:00 | 8-Aug 10:00 | 285.5 | 1.56E-01 | 1.03E-01 | 1.05E-01 | 4.72E-02 |
| 287 | 8-Aug 10:00 | 8-Aug 11:00 | 286.5 | 1.72E-01 | 1.45E-01 | 1.10E-01 | 8.34E-02 |
| 288 | 8-Aug 11:00 | 8-Aug 12:00 | 287.5 | 1.86E-01 | 1.38E-01 | 8.33E-02 | 9.69E-02 |
| 289 | 8-Aug 12:00 | 8-Aug 13:00 | 288.5 | 1.85E-01 | 1.47E-01 | 8.42E-02 | 1.14E-01 |
| 290 | 8-Aug 13:00 | 8-Aug 14:00 | 289.5 | 2.56E-01 | 1.99E-01 | 1.75E-01 | 1.53E-01 |
| 291 | 8-Aug 14:00 | 8-Aug 15:00 | 290.5 | 1.99E-01 | 1.60E-01 | 2.34E-01 | 1.18E-01 |
| 292 | 8-Aug 15:00 | 8-Aug 16:00 | 291.5 | 1.44E-01 | 1.22E-01 | 1.97E-01 | 8.28E-02 |
| 293 | 8-Aug 16:00 | 8-Aug 17:00 | 292.5 | 1.14E-01 | 9.93E-02 | 1.83E-01 | 6.47E-02 |
| 294 | 8-Aug 17:00 | 8-Aug 18:00 | 293.5 | 6.37E-02 | 6.10E-02 | 8.09E-02 | 4.32E-02 |
| 295 | 8-Aug 18:00 | 8-Aug 19:00 | 294.5 | 3.27E-02 | 3.35E-02 | 3.82E-02 | 2.46E-02 |
| 296 | 8-Aug 19:00 | 8-Aug 20:00 | 295.5 | 8.11E-04 | 8.45E-04 | 1.35E-03 | 9.11E-04 |
| 297 | 8-Aug 20:00 | 8-Aug 21:00 | 296.5 | -7.75E-04 | -4.50E-03 | -1.67E-04 | -1.12E-03 |
| 298 | 8-Aug 21:00 | 8-Aug 22:00 | 297.5 | 4.03E-05 | 1.32E-04 | -3.73E-04 | 6.23E-05 |
| 299 | 8-Aug 22:00 | 8-Aug 23:00 | 298.5 | 1.58E-03 | 4.73E-03 | -5.33E-03 | 1.97E-03 |
| 300 | 8-Aug 23:00 | 9-Aug 00:00 | 299.5 | 2.64E-02 | 6.08E-02 | 2.81E-02 | 2.60E-02 |

Table A.6 Evapo-transpiration rate (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Evapo-transpiration rate ($g \cdot m^{-2} \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.1-0.5 m | 0.5-1.0 m | 1.0-1.5 m | 1.5-2.5 m |
| 301 | 9-Aug 00:00 | 9-Aug 01:00 | 300.5 | 3.06E-03 | 3.86E-03 | 5.12E-03 | 2.72E-03 |
| 302 | 9-Aug 01:00 | 9-Aug 02:00 | 301.5 | -7.80E-05 | -6.19E-05 | -8.70E-05 | -7.16E-05 |
| 303 | 9-Aug 02:00 | 9-Aug 03:00 | 302.5 | 1.04E-03 | 5.41E-04 | 1.20E-03 | 9.12E-04 |
| 304 | 9-Aug 03:00 | 9-Aug 04:00 | 303.5 | -8.70E-04 | -5.42E-03 | -1.00E-03 | -7.21E-04 |
| 305 | 9-Aug 04:00 | 9-Aug 05:00 | 304.5 | -2.55E-03 | -1.83E-03 | -3.11E-03 | -2.19E-03 |
| 306 | 9-Aug 05:00 | 9-Aug 06:00 | 305.5 | -1.39E-03 | -9.66E-04 | -2.20E-03 | -1.31E-03 |
| 307 | 9-Aug 06:00 | 9-Aug 07:00 | 306.5 | -5.45E-04 | -3.29E-04 | 7.93E-04 | -3.43E-04 |
| 308 | 9-Aug 07:00 | 9-Aug 08:00 | 307.5 | 6.19E-03 | 5.82E-03 | 7.46E-03 | 5.20E-03 |
| 309 | 9-Aug 08:00 | 9-Aug 09:00 | 308.5 | 1.64E-02 | 3.38E-02 | 2.06E-02 | 1.86E-02 |
| 310 | 9-Aug 09:00 | 9-Aug 10:00 | 309.5 | 2.40E-02 | 5.22E-02 | 2.61E-02 | 1.31E-02 |
| 311 | 9-Aug 10:00 | 9-Aug 11:00 | 310.5 | 8.47E-02 | 7.61E-02 | 7.97E-02 | 4.08E-02 |
| 312 | 9-Aug 11:00 | 9-Aug 12:00 | 311.5 | 7.52E-02 | 7.43E-02 | 7.24E-02 | 4.61E-02 |
| 313 | 9-Aug 12:00 | 9-Aug 13:00 | 312.5 | 5.71E-02 | 5.73E-02 | 4.42E-02 | 3.81E-02 |
| 314 | 9-Aug 13:00 | 9-Aug 14:00 | 313.5 | 9.79E-02 | 8.27E-02 | 6.85E-02 | 5.58E-02 |
| 315 | 9-Aug 14:00 | 9-Aug 15:00 | 314.5 | 1.32E-01 | 1.03E-01 | 9.32E-02 | 7.20E-02 |
| 316 | 9-Aug 15:00 | 9-Aug 16:00 | 315.5 | 8.54E-02 | 7.39E-02 | 6.33E-02 | 4.90E-02 |
| 317 | 9-Aug 16:00 | 9-Aug 17:00 | 316.5 | 7.02E-02 | 6.39E-02 | 4.95E-02 | 4.26E-02 |
| 318 | 9-Aug 17:00 | 9-Aug 18:00 | 317.5 | 7.31E-02 | 6.61E-02 | 5.95E-02 | 4.55E-02 |
| 319 | 9-Aug 18:00 | 9-Aug 19:00 | 318.5 | 2.39E-02 | 4.44E-02 | 2.81E-02 | 1.50E-02 |
| 320 | 9-Aug 19:00 | 9-Aug 20:00 | 319.5 | 2.21E-02 | 2.38E-02 | 2.42E-02 | 1.21E-02 |
| 321 | 9-Aug 20:00 | 9-Aug 21:00 | 320.5 | -1.03E-02 | -2.46E-03 | -8.05E-03 | 1.87E-02 |
| 322 | 9-Aug 21:00 | 9-Aug 22:00 | 321.5 | -8.22E-03 | -2.84E-03 | -3.82E-03 | -2.47E-03 |
| 323 | 9-Aug 22:00 | 9-Aug 23:00 | 322.5 | -5.76E-03 | -1.46E-03 | -2.36E-03 | -1.85E-03 |
| 324 | 9-Aug 23:00 | 10-Aug 00:00 | 323.5 | -3.73E-03 | -1.28E-03 | -1.62E-03 | -1.41E-03 |
| 325 | 10-Aug 00:00 | 10-Aug 01:00 | 324.5 | -3.68E-03 | -1.15E-03 | -1.49E-03 | -1.22E-03 |
| 326 | 10-Aug 01:00 | 10-Aug 02:00 | 325.5 | -2.23E-03 | -7.49E-04 | -8.61E-04 | -8.64E-04 |
| 327 | 10-Aug 02:00 | 10-Aug 03:00 | 326.5 | -2.48E-03 | -8.18E-04 | -1.07E-03 | -9.39E-04 |
| 328 | 10-Aug 03:00 | 10-Aug 04:00 | 327.5 | -2.35E-03 | -8.71E-04 | -8.89E-04 | -9.62E-04 |
| 329 | 10-Aug 04:00 | 10-Aug 05:00 | 328.5 | -3.75E-03 | -1.39E-03 | -1.62E-03 | -1.54E-03 |
| 330 | 10-Aug 05:00 | 10-Aug 06:00 | 329.5 | -1.07E-03 | -3.80E-04 | -5.15E-04 | -3.95E-04 |
| 331 | 10-Aug 06:00 | 10-Aug 07:00 | 330.5 | 2.84E-03 | 1.15E-03 | 1.17E-03 | 8.16E-04 |
| 332 | 10-Aug 07:00 | 10-Aug 08:00 | 331.5 | 1.16E-02 | 4.57E-03 | 3.86E-02 | 3.42E-03 |
| 333 | 10-Aug 08:00 | 10-Aug 09:00 | 332.5 | -1.52E-01 | 1.61E-01 | 8.10E-02 | 1.41E-02 |

Table A.7 Turbulent diffusivity of water vapor at various heights

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Turbulent diffusivity ($m^2 \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.3 m | 0.75 m | 1.25 m | 2.0 m |
| 1 | 27-Jul 12:00 | 27-Jul 13:00 | 0.5 | 1.14E-01 | 1.95E-01 | 1.06E+00 | 6.44E-01 |
| 2 | 27-Jul 13:00 | 27-Jul 14:00 | 1.5 | n.m. | n.m. | n.m. | n.m. |
| 3 | 27-Jul 14:00 | 27-Jul 15:00 | 2.5 | 7.06E-02 | 1.10E-01 | 1.96E+00 | 7.20E-01 |
| 4 | 27-Jul 15:00 | 27-Jul 16:00 | 3.5 | 3.07E-02 | 6.73E-02 | - | 3.40E-01 |
| 5 | 27-Jul 16:00 | 27-Jul 17:00 | 4.5 | 3.27E-02 | 6.27E-02 | 8.93E-01 | 3.20E-01 |
| 6 | 27-Jul 17:00 | 27-Jul 18:00 | 5.5 | 1.28E-02 | 2.95E-02 | 2.98E-01 | 1.46E-01 |
| 7 | 27-Jul 18:00 | 27-Jul 19:00 | 6.5 | 1.21E-02 | 2.53E-02 | 3.27E-01 | 1.21E-01 |
| 8 | 27-Jul 19:00 | 27-Jul 20:00 | 7.5 | 6.87E-03 | 2.03E-02 | 3.04E-01 | 4.69E-02 |
| 9 | 27-Jul 20:00 | 27-Jul 21:00 | 8.5 | - | 2.70E-02 | 5.55E-03 | - |
| 10 | 27-Jul 21:00 | 27-Jul 22:00 | 9.5 | 2.61E-03 | - | - | - |
| 11 | 27-Jul 22:00 | 27-Jul 23:00 | 10.5 | n.m. | n.m. | n.m. | n.m. |
| 12 | 27-Jul 23:00 | 28-Jul 00:00 | 11.5 | 5.89E-03 | - | - | - |
| 13 | 28-Jul 00:00 | 28-Jul 01:00 | 12.5 | 5.15E-03 | - | - | - |
| 14 | 28-Jul 01:00 | 28-Jul 02:00 | 13.5 | - | 4.20E-04 | 1.03E-03 | 1.43E-03 |
| 15 | 28-Jul 02:00 | 28-Jul 03:00 | 14.5 | - | 1.28E-03 | 4.02E-03 | 3.77E-03 |
| 16 | 28-Jul 03:00 | 28-Jul 04:00 | 15.5 | 3.44E-04 | - | - | - |
| 17 | 28-Jul 04:00 | 28-Jul 05:00 | 16.5 | 7.32E-03 | - | - | - |
| 18 | 28-Jul 05:00 | 28-Jul 06:00 | 17.5 | 2.04E-03 | - | - | - |
| 19 | 28-Jul 06:00 | 28-Jul 07:00 | 18.5 | 1.24E-02 | 9.12E-02 | 1.07E+00 | 9.35E-02 |
| 20 | 28-Jul 07:00 | 28-Jul 08:00 | 19.5 | 3.53E-02 | 1.54E-01 | 2.21E-01 | 1.38E-01 |
| 21 | 28-Jul 08:00 | 28-Jul 09:00 | 20.5 | 3.36E-02 | 9.59E-02 | 7.29E-02 | 1.86E-01 |
| 22 | 28-Jul 09:00 | 28-Jul 10:00 | 21.5 | 9.93E-02 | 9.56E-02 | 1.33E-01 | 3.93E-01 |
| 23 | 28-Jul 10:00 | 28-Jul 11:00 | 22.5 | 1.10E-01 | 1.23E-01 | 3.31E-01 | 4.34E-01 |
| 24 | 28-Jul 11:00 | 28-Jul 12:00 | 23.5 | 7.79E-02 | 9.82E-02 | 6.73E-01 | 3.80E-01 |
| 25 | 28-Jul 12:00 | 28-Jul 13:00 | 24.5 | 5.33E-02 | 9.54E-02 | 5.86E-01 | 3.61E-01 |
| 26 | 28-Jul 13:00 | 28-Jul 14:00 | 25.5 | 3.92E-02 | 5.86E-02 | 3.94E-01 | 3.62E-01 |
| 27 | 28-Jul 14:00 | 28-Jul 15:00 | 26.5 | 4.86E-02 | 8.12E-02 | - | 3.81E-01 |
| 28 | 28-Jul 15:00 | 28-Jul 16:00 | 27.5 | 1.76E-02 | 3.97E-02 | 2.51E-01 | 1.89E-01 |
| 29 | 28-Jul 16:00 | 28-Jul 17:00 | 28.5 | 2.29E-02 | 9.40E-02 | 7.83E-01 | 1.51E-01 |
| 30 | 28-Jul 17:00 | 28-Jul 18:00 | 29.5 | 2.42E-02 | 2.00E-02 | 1.25E-01 | 2.12E-01 |
| 31 | 28-Jul 18:00 | 28-Jul 19:00 | 30.5 | 6.50E-03 | 1.23E-02 | 8.50E-02 | 5.92E-02 |
| 32 | 28-Jul 19:00 | 28-Jul 20:00 | 31.5 | 7.74E-03 | 1.10E-02 | 6.00E-02 | 6.94E-02 |
| 33 | 28-Jul 20:00 | 28-Jul 21:00 | 32.5 | - | - | 3.32E-02 | - |
| 34 | 28-Jul 21:00 | 28-Jul 22:00 | 33.5 | - | 1.60E-03 | 2.13E-03 | 6.69E-03 |
| 35 | 28-Jul 22:00 | 28-Jul 23:00 | 34.5 | - | 6.95E-04 | 7.69E-04 | 1.61E-03 |
| 36 | 28-Jul 23:00 | 29-Jul 00:00 | 35.5 | - | 1.11E-03 | 3.36E-03 | 5.80E-03 |
| 37 | 29-Jul 00:00 | 29-Jul 01:00 | 36.5 | - | 2.05E-03 | 4.41E-03 | 5.72E-03 |
| 38 | 29-Jul 01:00 | 29-Jul 02:00 | 37.5 | - | 3.76E-04 | 9.29E-04 | 1.44E-03 |
| 39 | 29-Jul 02:00 | 29-Jul 03:00 | 38.5 | - | 3.14E-04 | 7.89E-04 | 1.04E-03 |
| 40 | 29-Jul 03:00 | 29-Jul 04:00 | 39.5 | - | 5.35E-05 | 1.15E-04 | 2.21E-04 |
| 41 | 29-Jul 04:00 | 29-Jul 05:00 | 40.5 | - | 1.22E-05 | 2.12E-05 | 4.31E-05 |
| 42 | 29-Jul 05:00 | 29-Jul 06:00 | 41.5 | 8.92E-04 | - | - | - |
| 43 | 29-Jul 06:00 | 29-Jul 07:00 | 42.5 | 8.74E-03 | - | - | - |
| 44 | 29-Jul 07:00 | 29-Jul 08:00 | 43.5 | 1.07E-01 | - | 6.17E-02 | 2.37E-01 |
| 45 | 29-Jul 08:00 | 29-Jul 09:00 | 44.5 | - | 8.63E-02 | 1.33E-01 | 1.70E-01 |
| 46 | 29-Jul 09:00 | 29-Jul 10:00 | 45.5 | 1.70E-01 | 1.16E-01 | 1.84E-01 | 3.21E-01 |
| 47 | 29-Jul 10:00 | 29-Jul 11:00 | 46.5 | 1.15E-01 | 1.30E-01 | 4.28E-01 | 3.00E-01 |
| 48 | 29-Jul 11:00 | 29-Jul 12:00 | 47.5 | 8.18E-02 | 1.08E-01 | 4.22E-01 | 3.29E-01 |
| 49 | 29-Jul 12:00 | 29-Jul 13:00 | 48.5 | 6.95E-02 | 1.15E-01 | 5.06E-01 | 3.92E-01 |
| 50 | 29-Jul 13:00 | 29-Jul 14:00 | 49.5 | 7.97E-02 | 1.31E-01 | 9.98E-01 | 3.99E-01 |

n.m.: not measured, -: omitted because of an erroneous result

Table A.7 Turbulent diffusivity of water vapor at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Turbulent diffusivity ($m^2 \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.3 m | 0.75 m | 1.25 m | 2.0 m |
| 51 | 29-Jul 14:00 | 29-Jul 15:00 | 50.5 | 5.72E-02 | 1.07E-01 | - | 3.65E-01 |
| 52 | 29-Jul 15:00 | 29-Jul 16:00 | 51.5 | 5.46E-02 | 1.05E-01 | 8.86E-01 | 3.89E-01 |
| 53 | 29-Jul 16:00 | 29-Jul 17:00 | 52.5 | 5.02E-02 | 7.73E-02 | 5.42E-01 | 3.03E-01 |
| 54 | 29-Jul 17:00 | 29-Jul 18:00 | 53.5 | 2.03E-02 | 4.02E-02 | 2.63E-01 | 1.45E-01 |
| 55 | 29-Jul 18:00 | 29-Jul 19:00 | 54.5 | 1.85E-02 | 4.68E-02 | - | 1.38E-01 |
| 56 | 29-Jul 19:00 | 29-Jul 20:00 | 55.5 | 2.89E-03 | 9.53E-03 | - | 1.91E-02 |
| 57 | 29-Jul 20:00 | 29-Jul 21:00 | 56.5 | - | - | 1.37E-02 | - |
| 58 | 29-Jul 21:00 | 29-Jul 22:00 | 57.5 | - | 4.35E-02 | 1.28E-02 | - |
| 59 | 29-Jul 22:00 | 29-Jul 23:00 | 58.5 | - | - | 2.30E-03 | 2.49E-02 |
| 60 | 29-Jul 23:00 | 30-Jul 00:00 | 59.5 | - | 3.14E-03 | 6.29E-03 | 1.78E-02 |
| 61 | 30-Jul 00:00 | 30-Jul 01:00 | 60.5 | - | 2.87E-03 | 7.22E-03 | 9.53E-03 |
| 62 | 30-Jul 01:00 | 30-Jul 02:00 | 61.5 | - | 9.80E-04 | 2.91E-03 | 3.61E-03 |
| 63 | 30-Jul 02:00 | 30-Jul 03:00 | 62.5 | - | 7.91E-04 | 2.52E-03 | 3.08E-03 |
| 64 | 30-Jul 03:00 | 30-Jul 04:00 | 63.5 | - | 6.03E-04 | 1.73E-03 | 2.34E-03 |
| 65 | 30-Jul 04:00 | 30-Jul 05:00 | 64.5 | - | 4.83E-04 | 1.10E-03 | 1.73E-03 |
| 66 | 30-Jul 05:00 | 30-Jul 06:00 | 65.5 | - | 6.96E-04 | 1.84E-03 | 2.64E-03 |
| 67 | 30-Jul 06:00 | 30-Jul 07:00 | 66.5 | 9.33E-03 | - | - | - |
| 68 | 30-Jul 07:00 | 30-Jul 08:00 | 67.5 | 2.07E-02 | 1.42E-01 | 1.31E-01 | 9.35E-02 |
| 69 | 30-Jul 08:00 | 30-Jul 09:00 | 68.5 | 1.86E-02 | 7.97E-02 | 6.11E-02 | 9.36E-02 |
| 70 | 30-Jul 09:00 | 30-Jul 10:00 | 69.5 | 1.50E-02 | 8.36E-02 | 3.11E-02 | 8.20E-02 |
| 71 | 30-Jul 10:00 | 30-Jul 11:00 | 70.5 | 1.31E-02 | 8.64E-02 | 4.20E-02 | 7.08E-02 |
| 72 | 30-Jul 11:00 | 30-Jul 12:00 | 71.5 | 1.45E-02 | 2.23E-02 | 3.05E-02 | 9.14E-02 |
| 73 | 30-Jul 12:00 | 30-Jul 13:00 | 72.5 | 1.81E-02 | 4.59E-02 | 5.27E-02 | 1.36E-01 |
| 74 | 30-Jul 13:00 | 30-Jul 14:00 | 73.5 | 1.92E-02 | 4.62E-02 | 7.53E-02 | 1.43E-01 |
| 75 | 30-Jul 14:00 | 30-Jul 15:00 | 74.5 | 1.43E-02 | 7.54E-02 | 1.12E-01 | 9.80E-02 |
| 76 | 30-Jul 15:00 | 30-Jul 16:00 | 75.5 | 2.23E-02 | 5.58E-02 | 1.91E-01 | 1.53E-01 |
| 77 | 30-Jul 16:00 | 30-Jul 17:00 | 76.5 | 4.64E-02 | 1.03E-01 | 2.76E-01 | 2.25E-01 |
| 78 | 30-Jul 17:00 | 30-Jul 18:00 | 77.5 | 3.17E-02 | 7.32E-02 | 2.52E-01 | 2.13E-01 |
| 79 | 30-Jul 18:00 | 30-Jul 19:00 | 78.5 | 2.09E-02 | 4.78E-02 | 2.91E-01 | 1.73E-01 |
| 80 | 30-Jul 19:00 | 30-Jul 20:00 | 79.5 | 6.13E-03 | 7.25E-03 | 2.74E-02 | 4.88E-02 |
| 81 | 30-Jul 20:00 | 30-Jul 21:00 | 80.5 | - | 3.14E-02 | 1.59E-02 | - |
| 82 | 30-Jul 21:00 | 30-Jul 22:00 | 81.5 | - | 2.91E-03 | 4.45E-03 | 1.72E-02 |
| 83 | 30-Jul 22:00 | 30-Jul 23:00 | 82.5 | - | 5.48E-04 | 1.23E-03 | 2.78E-03 |
| 84 | 30-Jul 23:00 | 31-Jul 00:00 | 83.5 | - | 3.16E-04 | 6.29E-04 | 9.72E-04 |
| 85 | 31-Jul 00:00 | 31-Jul 01:00 | 84.5 | - | 7.64E-04 | 1.61E-03 | 2.73E-03 |
| 86 | 31-Jul 01:00 | 31-Jul 02:00 | 85.5 | - | 4.30E-04 | 8.06E-04 | 1.38E-03 |
| 87 | 31-Jul 02:00 | 31-Jul 03:00 | 86.5 | - | 1.49E-03 | 2.33E-03 | 3.22E-03 |
| 88 | 31-Jul 03:00 | 31-Jul 04:00 | 87.5 | 1.20E-03 | - | - | - |
| 89 | 31-Jul 04:00 | 31-Jul 05:00 | 88.5 | 7.53E-04 | - | - | - |
| 90 | 31-Jul 05:00 | 31-Jul 06:00 | 89.5 | - | 3.85E-04 | 8.94E-04 | 2.78E-03 |
| 91 | 31-Jul 06:00 | 31-Jul 07:00 | 90.5 | 3.48E-03 | - | - | 2.79E-01 |
| 92 | 31-Jul 07:00 | 31-Jul 08:00 | 91.5 | 3.28E-02 | 7.36E-02 | 3.25E-01 | 1.15E-01 |
| 93 | 31-Jul 08:00 | 31-Jul 09:00 | 92.5 | 4.33E-02 | 4.97E-02 | 1.19E-01 | 5.42E-01 |
| 94 | 31-Jul 09:00 | 31-Jul 10:00 | 93.5 | 4.40E-02 | 4.86E-02 | 1.49E-01 | 2.41E-01 |
| 95 | 31-Jul 10:00 | 31-Jul 11:00 | 94.5 | 5.46E-02 | 6.83E-02 | 2.34E-01 | 5.19E-01 |
| 96 | 31-Jul 11:00 | 31-Jul 12:00 | 95.5 | 4.56E-02 | 5.93E-02 | 1.50E-01 | 4.11E-01 |
| 97 | 31-Jul 12:00 | 31-Jul 13:00 | 96.5 | 3.92E-02 | 5.82E-02 | 1.94E-01 | 3.44E-01 |
| 98 | 31-Jul 13:00 | 31-Jul 14:00 | 97.5 | 4.04E-02 | 1.06E-01 | 3.80E-01 | 3.85E-01 |
| 99 | 31-Jul 14:00 | 31-Jul 15:00 | 98.5 | 3.65E-02 | 9.52E-02 | 3.76E-01 | 3.72E-01 |
| 100 | 31-Jul 15:00 | 31-Jul 16:00 | 99.5 | 3.40E-02 | 9.66E-02 | 3.70E-01 | 3.45E-01 |

-: omitted because of an erroneous result

Table A.7 Turbulent diffusivity of water vapor at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Turbulent diffusivity ($m^2 \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.3 m | 0.75 m | 1.25 m | 2.0 m |
| 101 | 31-Jul 16:00 | 31-Jul 17:00 | 100.5 | 2.70E-02 | 8.79E-02 | 2.03E-01 | 2.65E-01 |
| 102 | 31-Jul 17:00 | 31-Jul 18:00 | 101.5 | 1.35E-02 | 6.52E-02 | 1.49E-01 | 1.63E-01 |
| 103 | 31-Jul 18:00 | 31-Jul 19:00 | 102.5 | 9.29E-03 | 4.13E-02 | 1.50E-01 | 1.18E-01 |
| 104 | 31-Jul 19:00 | 31-Jul 20:00 | 103.5 | 1.01E-03 | 3.74E-03 | 8.59E-03 | 6.10E-03 |
| 105 | 31-Jul 20:00 | 31-Jul 21:00 | 104.5 | - | 1.55E-02 | 1.41E-02 | - |
| 106 | 31-Jul 21:00 | 31-Jul 22:00 | 105.5 | - | 2.99E-03 | 4.24E-03 | 1.44E-02 |
| 107 | 31-Jul 22:00 | 31-Jul 23:00 | 106.5 | - | 1.40E-03 | 1.99E-03 | 4.65E-03 |
| 108 | 31-Jul 23:00 | 1-Aug 00:00 | 107.5 | - | 3.63E-04 | 7.48E-04 | 1.71E-03 |
| 109 | 1-Aug 00:00 | 1-Aug 01:00 | 108.5 | - | 5.09E-04 | 1.05E-03 | 2.26E-03 |
| 110 | 1-Aug 01:00 | 1-Aug 02:00 | 109.5 | - | 3.88E-04 | 9.51E-04 | 1.65E-03 |
| 111 | 1-Aug 02:00 | 1-Aug 03:00 | 110.5 | - | 5.79E-04 | 1.46E-03 | 2.24E-03 |
| 112 | 1-Aug 03:00 | 1-Aug 04:00 | 111.5 | - | 1.38E-04 | 2.65E-04 | 4.02E-04 |
| 113 | 1-Aug 04:00 | 1-Aug 05:00 | 112.5 | 2.58E-03 | - | - | - |
| 114 | 1-Aug 05:00 | 1-Aug 06:00 | 113.5 | 3.45E-03 | - | - | - |
| 115 | 1-Aug 06:00 | 1-Aug 07:00 | 114.5 | 4.99E-03 | - | - | - |
| 116 | 1-Aug 07:00 | 1-Aug 08:00 | 115.5 | - | - | 4.59E-02 | 1.98E-01 |
| 117 | 1-Aug 08:00 | 1-Aug 09:00 | 116.5 | 8.10E-02 | 5.55E-02 | 6.77E-02 | 2.75E-01 |
| 118 | 1-Aug 09:00 | 1-Aug 10:00 | 117.5 | 7.36E-02 | 6.98E-02 | 1.42E-01 | 4.13E-01 |
| 119 | 1-Aug 10:00 | 1-Aug 11:00 | 118.5 | 5.39E-02 | 6.77E-02 | 2.25E-01 | 4.52E-01 |
| 120 | 1-Aug 11:00 | 1-Aug 12:00 | 119.5 | 3.45E-02 | 6.05E-02 | 1.75E-01 | 2.57E-01 |
| 121 | 1-Aug 12:00 | 1-Aug 13:00 | 120.5 | 4.71E-02 | 9.56E-02 | 3.10E-01 | 3.86E-01 |
| 122 | 1-Aug 13:00 | 1-Aug 14:00 | 121.5 | 2.57E-02 | 9.97E-02 | 2.09E-01 | 2.32E-01 |
| 123 | 1-Aug 14:00 | 1-Aug 15:00 | 122.5 | 1.88E-02 | 4.38E-02 | - | 8.36E-02 |
| 124 | 1-Aug 15:00 | 1-Aug 16:00 | 123.5 | 1.54E-02 | 2.45E-02 | 1.51E-01 | 6.88E-02 |
| 125 | 1-Aug 16:00 | 1-Aug 17:00 | 124.5 | 2.78E-02 | 2.46E-02 | 9.01E-02 | 2.34E-01 |
| 126 | 1-Aug 17:00 | 1-Aug 18:00 | 125.5 | 1.63E-02 | 2.68E-02 | 9.51E-02 | 1.46E-01 |
| 127 | 1-Aug 18:00 | 1-Aug 19:00 | 126.5 | 1.19E-02 | 1.62E-02 | 7.85E-02 | 1.29E-01 |
| 128 | 1-Aug 19:00 | 1-Aug 20:00 | 127.5 | 5.05E-03 | 1.31E-02 | 9.06E-02 | 4.74E-02 |
| 129 | 1-Aug 20:00 | 1-Aug 21:00 | 128.5 | - | 1.05E-01 | 2.43E-02 | - |
| 130 | 1-Aug 21:00 | 1-Aug 22:00 | 129.5 | - | 5.89E-03 | 6.37E-03 | 3.63E-02 |
| 131 | 1-Aug 22:00 | 1-Aug 23:00 | 130.5 | 1.93E-03 | - | - | - |
| 132 | 1-Aug 23:00 | 2-Aug 00:00 | 131.5 | 1.13E-03 | - | - | 1.22E-02 |
| 133 | 2-Aug 00:00 | 2-Aug 01:00 | 132.5 | 1.36E-03 | - | - | 1.39E-02 |
| 134 | 2-Aug 01:00 | 2-Aug 02:00 | 133.5 | 1.05E-02 | 1.58E-01 | - | 8.65E-02 |
| 135 | 2-Aug 02:00 | 2-Aug 03:00 | 134.5 | 1.12E-02 | 1.03E-01 | - | 9.90E-02 |
| 136 | 2-Aug 03:00 | 2-Aug 04:00 | 135.5 | 1.08E-02 | 7.29E-02 | - | 8.54E-02 |
| 137 | 2-Aug 04:00 | 2-Aug 05:00 | 136.5 | 9.01E-03 | 9.20E-02 | - | 7.30E-02 |
| 138 | 2-Aug 05:00 | 2-Aug 06:00 | 137.5 | 1.11E-02 | 7.19E-02 | - | 1.05E-01 |
| 139 | 2-Aug 06:00 | 2-Aug 07:00 | 138.5 | 9.84E-03 | 5.86E-02 | 8.20E-01 | 7.52E-02 |
| 140 | 2-Aug 07:00 | 2-Aug 08:00 | 139.5 | 1.30E-02 | 4.57E-02 | 2.18E-01 | 1.04E-01 |
| 141 | 2-Aug 08:00 | 2-Aug 09:00 | 140.5 | 1.49E-02 | 4.59E-02 | 1.92E-01 | 1.22E-01 |
| 142 | 2-Aug 09:00 | 2-Aug 10:00 | 141.5 | 3.76E-02 | 6.15E-02 | 2.81E-01 | 2.59E-01 |
| 143 | 2-Aug 10:00 | 2-Aug 11:00 | 142.5 | 4.25E-02 | 7.28E-02 | 2.33E-01 | 2.33E-01 |
| 144 | 2-Aug 11:00 | 2-Aug 12:00 | 143.5 | 5.87E-02 | 7.13E-02 | 2.00E-01 | 3.31E-01 |
| 145 | 2-Aug 12:00 | 2-Aug 13:00 | 144.5 | 3.56E-02 | 4.55E-02 | 1.59E-01 | 3.55E-01 |
| 146 | 2-Aug 13:00 | 2-Aug 14:00 | 145.5 | 6.86E-02 | 8.86E-02 | 4.88E-01 | 4.82E-01 |
| 147 | 2-Aug 14:00 | 2-Aug 15:00 | 146.5 | 4.67E-02 | 5.95E-02 | 3.11E-01 | 4.27E-01 |
| 148 | 2-Aug 15:00 | 2-Aug 16:00 | 147.5 | 3.72E-02 | 5.48E-02 | 2.74E-01 | 3.95E-01 |
| 149 | 2-Aug 16:00 | 2-Aug 17:00 | 148.5 | 2.57E-02 | 3.24E-02 | 1.47E-01 | 2.92E-01 |
| 150 | 2-Aug 17:00 | 2-Aug 18:00 | 149.5 | 1.43E-02 | 1.70E-02 | 7.98E-02 | 1.65E-01 |

-: omitted because of an erroneous result

Table A.7 Turbulent diffusivity of water vapor at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Turbulent diffusivity ($m^2 \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.3 m | 0.75 m | 1.25 m | 2.0 m |
| 151 | 2-Aug 18:00 | 2-Aug 19:00 | 150.5 | 1.09E-02 | 1.35E-02 | 5.69E-02 | 1.25E-01 |
| 152 | 2-Aug 19:00 | 2-Aug 20:00 | 151.5 | 6.31E-03 | 2.56E-02 | 1.79E-01 | 4.60E-02 |
| 153 | 2-Aug 20:00 | 2-Aug 21:00 | 152.5 | 6.67E-04 | 8.17E-03 | - | 4.35E-03 |
| 154 | 2-Aug 21:00 | 2-Aug 22:00 | 153.5 | 9.58E-04 | - | - | - |
| 155 | 2-Aug 22:00 | 2-Aug 23:00 | 154.5 | - | 1.83E-04 | 2.49E-04 | 6.85E-04 |
| 156 | 2-Aug 23:00 | 3-Aug 00:00 | 155.5 | 6.67E-03 | - | - | - |
| 157 | 3-Aug 00:00 | 3-Aug 01:00 | 156.5 | 4.81E-03 | - | - | - |
| 158 | 3-Aug 01:00 | 3-Aug 02:00 | 157.5 | - | 1.42E-03 | 4.22E-03 | 7.62E-03 |
| 159 | 3-Aug 02:00 | 3-Aug 03:00 | 158.5 | 7.20E-03 | - | - | - |
| 160 | 3-Aug 03:00 | 3-Aug 04:00 | 159.5 | - | 9.65E-04 | 6.35E-03 | 2.18E-02 |
| 161 | 3-Aug 04:00 | 3-Aug 05:00 | 160.5 | - | 7.39E-04 | 3.07E-03 | 5.49E-03 |
| 162 | 3-Aug 05:00 | 3-Aug 06:00 | 161.5 | 1.55E-03 | - | - | 3.04E-01 |
| 163 | 3-Aug 06:00 | 3-Aug 07:00 | 162.5 | 6.90E-03 | - | 1.37E-01 | 4.98E-02 |
| 164 | 3-Aug 07:00 | 3-Aug 08:00 | 163.5 | 1.88E-02 | 7.56E-02 | 1.40E-01 | 9.67E-02 |
| 165 | 3-Aug 08:00 | 3-Aug 09:00 | 164.5 | 2.81E-02 | 3.38E-02 | 1.09E-01 | 1.63E-01 |
| 166 | 3-Aug 09:00 | 3-Aug 10:00 | 165.5 | 4.59E-02 | 5.64E-02 | 1.30E-01 | 3.60E-01 |
| 167 | 3-Aug 10:00 | 3-Aug 11:00 | 166.5 | 5.91E-02 | 7.00E-02 | 1.16E-01 | 1.82E+00 |
| 168 | 3-Aug 11:00 | 3-Aug 12:00 | 167.5 | 4.74E-02 | 5.29E-02 | 1.79E-01 | 2.99E-01 |
| 169 | 3-Aug 12:00 | 3-Aug 13:00 | 168.5 | 5.32E-02 | 6.33E-02 | 2.12E-01 | 3.25E-01 |
| 170 | 3-Aug 13:00 | 3-Aug 14:00 | 169.5 | 4.77E-02 | 1.03E-01 | 3.81E-01 | 3.02E-01 |
| 171 | 3-Aug 14:00 | 3-Aug 15:00 | 170.5 | 5.24E-02 | 8.79E-02 | 6.35E-01 | 3.88E-01 |
| 172 | 3-Aug 15:00 | 3-Aug 16:00 | 171.5 | 3.31E-02 | 6.52E-02 | 3.50E-01 | 3.14E-01 |
| 173 | 3-Aug 16:00 | 3-Aug 17:00 | 172.5 | 2.86E-02 | 7.10E-02 | 3.38E-01 | 3.19E-01 |
| 174 | 3-Aug 17:00 | 3-Aug 18:00 | 173.5 | 1.83E-02 | 4.97E-02 | 2.59E-01 | 2.47E-01 |
| 175 | 3-Aug 18:00 | 3-Aug 19:00 | 174.5 | 1.24E-02 | 3.82E-02 | 1.70E-01 | 1.61E-01 |
| 176 | 3-Aug 19:00 | 3-Aug 20:00 | 175.5 | 2.68E-03 | 6.88E-03 | 3.03E-02 | 2.60E-02 |
| 177 | 3-Aug 20:00 | 3-Aug 21:00 | 176.5 | 2.37E-03 | - | - | 4.96E-02 |
| 178 | 3-Aug 21:00 | 3-Aug 22:00 | 177.5 | 1.07E-02 | - | - | - |
| 179 | 3-Aug 22:00 | 3-Aug 23:00 | 178.5 | 6.14E-03 | - | - | - |
| 180 | 3-Aug 23:00 | 4-Aug 00:00 | 179.5 | 4.87E-03 | - | - | - |
| 181 | 4-Aug 00:00 | 4-Aug 01:00 | 180.5 | 5.23E-03 | - | - | - |
| 182 | 4-Aug 01:00 | 4-Aug 02:00 | 181.5 | 3.67E-03 | - | - | - |
| 183 | 4-Aug 02:00 | 4-Aug 03:00 | 182.5 | 3.09E-03 | 4.48E-02 | 1.53E-02 | 4.05E-02 |
| 184 | 4-Aug 03:00 | 4-Aug 04:00 | 183.5 | 1.34E-03 | 3.87E-03 | 1.58E-02 | 1.61E-02 |
| 185 | 4-Aug 04:00 | 4-Aug 05:00 | 184.5 | 5.14E-04 | 2.80E-03 | - | 3.24E-03 |
| 186 | 4-Aug 05:00 | 4-Aug 06:00 | 185.5 | 3.31E-03 | 2.07E-02 | - | 1.99E-02 |
| 187 | 4-Aug 06:00 | 4-Aug 07:00 | 186.5 | 2.23E-03 | 9.19E-03 | 1.05E-02 | 2.77E-02 |
| 188 | 4-Aug 07:00 | 4-Aug 08:00 | 187.5 | 4.72E-03 | 2.20E-02 | 2.95E-02 | 6.99E-02 |
| 189 | 4-Aug 08:00 | 4-Aug 09:00 | 188.5 | 4.95E-03 | 1.50E-02 | 2.89E-02 | 6.53E-02 |
| 190 | 4-Aug 09:00 | 4-Aug 10:00 | 189.5 | 1.28E-02 | 3.33E-02 | 7.58E-02 | 1.52E-01 |
| 191 | 4-Aug 10:00 | 4-Aug 11:00 | 190.5 | 1.24E-02 | 2.77E-02 | 7.31E-02 | 1.34E-01 |
| 192 | 4-Aug 11:00 | 4-Aug 12:00 | 191.5 | 2.01E-02 | 3.18E-02 | 9.09E-02 | 1.93E-01 |
| 193 | 4-Aug 12:00 | 4-Aug 13:00 | 192.5 | 1.27E-02 | 2.23E-02 | 5.08E-02 | 1.07E-01 |
| 194 | 4-Aug 13:00 | 4-Aug 14:00 | 193.5 | 1.37E-02 | 7.34E-02 | 6.14E-02 | 8.56E-02 |
| 195 | 4-Aug 14:00 | 4-Aug 15:00 | 194.5 | 1.83E-02 | 1.84E-01 | 7.41E-02 | 1.01E-01 |
| 196 | 4-Aug 15:00 | 4-Aug 16:00 | 195.5 | 2.13E-02 | 1.45E-01 | 5.65E-02 | 1.33E-01 |
| 197 | 4-Aug 16:00 | 4-Aug 17:00 | 196.5 | 4.18E-02 | 1.38E-01 | 6.45E-02 | 2.92E-01 |
| 198 | 4-Aug 17:00 | 4-Aug 18:00 | 197.5 | 3.80E-02 | 1.16E-01 | 6.19E-02 | 2.76E-01 |
| 199 | 4-Aug 18:00 | 4-Aug 19:00 | 198.5 | 3.04E-02 | 1.12E-01 | 5.37E-02 | 2.32E-01 |
| 200 | 4-Aug 19:00 | 4-Aug 20:00 | 199.5 | 2.80E-02 | 1.23E-01 | 4.86E-02 | 2.34E-01 |

-: omitted because of an erroneous result

Table A.7 Turbulent diffusivity of water vapor at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Turbulent diffusivity ($m^2 \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.3 m | 0.75 m | 1.25 m | 2.0 m |
| 201 | 4-Aug 20:00 | 4-Aug 21:00 | 200.5 | 2.08E-02 | 1.61E-01 | 4.63E-02 | 2.25E-01 |
| 202 | 4-Aug 21:00 | 4-Aug 22:00 | 201.5 | 2.08E-02 | 1.44E-01 | 6.05E-02 | 2.36E-01 |
| 203 | 4-Aug 22:00 | 4-Aug 23:00 | 202.5 | 1.87E-02 | 1.48E-01 | 7.45E-02 | 2.23E-01 |
| 204 | 4-Aug 23:00 | 5-Aug 00:00 | 203.5 | 1.74E-02 | 1.33E-01 | 1.20E-01 | 1.97E-01 |
| 205 | 5-Aug 00:00 | 5-Aug 01:00 | 204.5 | 1.52E-02 | 8.83E-02 | 1.56E-01 | 1.49E-01 |
| 206 | 5-Aug 01:00 | 5-Aug 02:00 | 205.5 | 1.20E-02 | 7.76E-02 | 2.28E-01 | 1.02E-01 |
| 207 | 5-Aug 02:00 | 5-Aug 03:00 | 206.5 | 1.23E-02 | 1.03E-01 | 3.93E-01 | 1.08E-01 |
| 208 | 5-Aug 03:00 | 5-Aug 04:00 | 207.5 | - | 3.08E-02 | 9.38E-02 | - |
| 209 | 5-Aug 04:00 | 5-Aug 05:00 | 208.5 | - | 3.97E-02 | 6.96E-02 | 3.61E-01 |
| 210 | 5-Aug 05:00 | 5-Aug 06:00 | 209.5 | - | 1.04E-02 | 1.79E-02 | 7.41E-02 |
| 211 | 5-Aug 06:00 | 5-Aug 07:00 | 210.5 | - | - | 2.16E-02 | 6.78E-02 |
| 212 | 5-Aug 07:00 | 5-Aug 08:00 | 211.5 | 5.46E-02 | - | 2.13E-01 | 2.03E-01 |
| 213 | 5-Aug 08:00 | 5-Aug 09:00 | 212.5 | - | 2.06E-01 | 2.56E-01 | 3.21E-01 |
| 214 | 5-Aug 09:00 | 5-Aug 10:00 | 213.5 | 9.88E-01 | 1.92E-01 | 3.11E-01 | 4.27E-01 |
| 215 | 5-Aug 10:00 | 5-Aug 11:00 | 214.5 | 1.70E-01 | 1.77E-01 | 3.86E-01 | 3.97E-01 |
| 216 | 5-Aug 11:00 | 5-Aug 12:00 | 215.5 | 1.81E-01 | 1.69E-01 | 4.29E-01 | 5.22E-01 |
| 217 | 5-Aug 12:00 | 5-Aug 13:00 | 216.5 | 1.09E-01 | 1.33E-01 | 3.23E-01 | 4.12E-01 |
| 218 | 5-Aug 13:00 | 5-Aug 14:00 | 217.5 | 8.73E-02 | 1.40E-01 | 4.42E-01 | 4.50E-01 |
| 219 | 5-Aug 14:00 | 5-Aug 15:00 | 218.5 | 7.00E-02 | 1.36E-01 | 4.07E-01 | 4.22E-01 |
| 220 | 5-Aug 15:00 | 5-Aug 16:00 | 219.5 | 3.80E-02 | 1.08E-01 | 2.26E-01 | 3.36E-01 |
| 221 | 5-Aug 16:00 | 5-Aug 17:00 | 220.5 | 3.25E-02 | 9.43E-02 | 1.85E-01 | 3.07E-01 |
| 222 | 5-Aug 17:00 | 5-Aug 18:00 | 221.5 | 2.08E-02 | 5.89E-02 | 1.66E-01 | 2.69E-01 |
| 223 | 5-Aug 18:00 | 5-Aug 19:00 | 222.5 | 1.86E-02 | 7.36E-02 | 1.60E-01 | 2.63E-01 |
| 224 | 5-Aug 19:00 | 5-Aug 20:00 | 223.5 | - | - | - | - |
| 225 | 5-Aug 20:00 | 5-Aug 21:00 | 224.5 | - | - | 2.29E-02 | - |
| 226 | 5-Aug 21:00 | 5-Aug 22:00 | 225.5 | - | 1.68E-03 | 2.95E-03 | 7.86E-03 |
| 227 | 5-Aug 22:00 | 5-Aug 23:00 | 226.5 | - | 4.66E-04 | 8.08E-04 | 1.86E-03 |
| 228 | 5-Aug 23:00 | 6-Aug 00:00 | 227.5 | - | 4.43E-04 | 7.44E-04 | 2.18E-03 |
| 229 | 6-Aug 00:00 | 6-Aug 01:00 | 228.5 | - | 3.58E-04 | 9.69E-04 | 1.90E-03 |
| 230 | 6-Aug 01:00 | 6-Aug 02:00 | 229.5 | - | 1.03E-03 | 2.37E-03 | 3.91E-03 |
| 231 | 6-Aug 02:00 | 6-Aug 03:00 | 230.5 | - | 5.42E-04 | 1.54E-03 | 3.01E-03 |
| 232 | 6-Aug 03:00 | 6-Aug 04:00 | 231.5 | 8.08E-04 | - | - | - |
| 233 | 6-Aug 04:00 | 6-Aug 05:00 | 232.5 | 3.44E-03 | - | - | - |
| 234 | 6-Aug 05:00 | 6-Aug 06:00 | 233.5 | - | 6.51E-04 | 1.91E-03 | 5.53E-03 |
| 235 | 6-Aug 06:00 | 6-Aug 07:00 | 234.5 | 2.97E-03 | - | - | 3.36E-02 |
| 236 | 6-Aug 07:00 | 6-Aug 08:00 | 235.5 | 2.44E-02 | 3.02E-01 | 4.14E-01 | 1.26E-01 |
| 237 | 6-Aug 08:00 | 6-Aug 09:00 | 236.5 | 9.98E-02 | 6.08E-02 | 1.18E-01 | 2.49E-01 |
| 238 | 6-Aug 09:00 | 6-Aug 10:00 | 237.5 | 1.88E-01 | 6.22E-02 | 1.59E-01 | 4.92E-01 |
| 239 | 6-Aug 10:00 | 6-Aug 11:00 | 238.5 | 1.20E-01 | 8.98E-02 | 1.73E-01 | 1.11E+00 |
| 240 | 6-Aug 11:00 | 6-Aug 12:00 | 239.5 | 8.99E-02 | 5.93E-02 | 1.83E-01 | 4.68E-01 |
| 241 | 6-Aug 12:00 | 6-Aug 13:00 | 240.5 | 5.65E-02 | 5.38E-02 | 1.96E-01 | 4.22E-01 |
| 242 | 6-Aug 13:00 | 6-Aug 14:00 | 241.5 | 3.25E-02 | 4.78E-02 | 2.04E-01 | 3.90E-01 |
| 243 | 6-Aug 14:00 | 6-Aug 15:00 | 242.5 | 1.89E-02 | 4.56E-02 | 2.06E-01 | 3.80E-01 |
| 244 | 6-Aug 15:00 | 6-Aug 16:00 | 243.5 | 2.04E-02 | 5.75E-02 | 2.96E-01 | 3.80E-01 |
| 245 | 6-Aug 16:00 | 6-Aug 17:00 | 244.5 | 9.52E-03 | 2.81E-02 | 9.65E-02 | 2.09E-01 |
| 246 | 6-Aug 17:00 | 6-Aug 18:00 | 245.5 | 8.06E-03 | 2.48E-02 | 9.70E-02 | 1.51E-01 |
| 247 | 6-Aug 18:00 | 6-Aug 19:00 | 246.5 | 7.12E-03 | 2.79E-02 | 7.24E-02 | 6.39E-02 |
| 248 | 6-Aug 19:00 | 6-Aug 20:00 | 247.5 | - | - | - | - |
| 249 | 6-Aug 20:00 | 6-Aug 21:00 | 248.5 | - | - | 1.67E-02 | - |
| 250 | 6-Aug 21:00 | 6-Aug 22:00 | 249.5 | - | 1.33E-03 | 1.92E-03 | 6.75E-03 |

-: omitted because of an erroneous result

Table A.7 Turbulent diffusivity of water vapor at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Turbulent diffusivity ($m^2 \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.3 m | 0.75 m | 1.25 m | 2.0 m |
| 251 | 6-Aug 22:00 | 6-Aug 23:00 | 250.5 | 5.71E-03 | - | - | - |
| 252 | 6-Aug 23:00 | 7-Aug 00:00 | 251.5 | - | 1.42E-03 | 2.26E-03 | 4.59E-03 |
| 253 | 7-Aug 00:00 | 7-Aug 01:00 | 252.5 | - | 1.20E-03 | 2.58E-03 | 5.92E-03 |
| 254 | 7-Aug 01:00 | 7-Aug 02:00 | 253.5 | - | 8.31E-04 | 2.14E-03 | 3.33E-03 |
| 255 | 7-Aug 02:00 | 7-Aug 03:00 | 254.5 | - | 7.23E-04 | 1.58E-03 | 3.00E-03 |
| 256 | 7-Aug 03:00 | 7-Aug 04:00 | 255.5 | - | 4.81E-04 | 1.03E-03 | 1.78E-03 |
| 257 | 7-Aug 04:00 | 7-Aug 05:00 | 256.5 | 5.95E-04 | - | - | - |
| 258 | 7-Aug 05:00 | 7-Aug 06:00 | 257.5 | 5.22E-03 | - | - | - |
| 259 | 7-Aug 06:00 | 7-Aug 07:00 | 258.5 | 1.14E-02 | - | 1.47E-01 | 7.82E-02 |
| 260 | 7-Aug 07:00 | 7-Aug 08:00 | 259.5 | 1.87E-02 | 9.12E-02 | 4.98E-01 | 1.03E-01 |
| 261 | 7-Aug 08:00 | 7-Aug 09:00 | 260.5 | 4.83E-02 | 7.74E-02 | 1.82E-01 | 2.24E-01 |
| 262 | 7-Aug 09:00 | 7-Aug 10:00 | 261.5 | 9.35E-02 | 4.98E-02 | 1.65E-01 | 5.33E-01 |
| 263 | 7-Aug 10:00 | 7-Aug 11:00 | 262.5 | 9.40E-02 | 7.39E-02 | 1.49E-01 | 2.55E+00 |
| 264 | 7-Aug 11:00 | 7-Aug 12:00 | 263.5 | 5.13E-02 | 5.45E-02 | 1.58E-01 | 3.54E-01 |
| 265 | 7-Aug 12:00 | 7-Aug 13:00 | 264.5 | 1.79E-02 | 4.73E-02 | 1.47E-01 | 3.10E-01 |
| 266 | 7-Aug 13:00 | 7-Aug 14:00 | 265.5 | 2.13E-02 | 6.11E-02 | 2.62E-01 | 4.15E-01 |
| 267 | 7-Aug 14:00 | 7-Aug 15:00 | 266.5 | 1.33E-02 | 8.42E-02 | 4.53E-01 | 4.55E-01 |
| 268 | 7-Aug 15:00 | 7-Aug 16:00 | 267.5 | 8.75E-03 | 6.01E-02 | 2.74E-01 | 4.06E-01 |
| 269 | 7-Aug 16:00 | 7-Aug 17:00 | 268.5 | 8.77E-03 | 4.97E-02 | 2.41E-01 | 4.01E-01 |
| 270 | 7-Aug 17:00 | 7-Aug 18:00 | 269.5 | 4.61E-03 | 2.15E-02 | 9.45E-02 | 2.12E-01 |
| 271 | 7-Aug 18:00 | 7-Aug 19:00 | 270.5 | 4.10E-03 | 1.71E-02 | 7.48E-02 | 1.98E-01 |
| 272 | 7-Aug 19:00 | 7-Aug 20:00 | 271.5 | 2.89E-04 | 1.62E-03 | 4.62E-03 | 4.17E-03 |
| 273 | 7-Aug 20:00 | 7-Aug 21:00 | 272.5 | - | 2.24E-02 | 1.20E-02 | 1.27E-01 |
| 274 | 7-Aug 21:00 | 7-Aug 22:00 | 273.5 | - | 1.63E-04 | 2.08E-04 | 6.38E-04 |
| 275 | 7-Aug 22:00 | 7-Aug 23:00 | 274.5 | 1.29E-03 | - | - | - |
| 276 | 7-Aug 23:00 | 8-Aug 00:00 | 275.5 | 1.16E-03 | - | - | - |
| 277 | 8-Aug 00:00 | 8-Aug 01:00 | 276.5 | - | 2.04E-04 | 3.07E-04 | 4.76E-04 |
| 278 | 8-Aug 01:00 | 8-Aug 02:00 | 277.5 | - | 1.83E-04 | 3.50E-04 | 6.80E-04 |
| 279 | 8-Aug 02:00 | 8-Aug 03:00 | 278.5 | - | 2.58E-04 | 5.30E-04 | 1.25E-03 |
| 280 | 8-Aug 03:00 | 8-Aug 04:00 | 279.5 | - | 2.72E-04 | 5.83E-04 | 1.31E-03 |
| 281 | 8-Aug 04:00 | 8-Aug 05:00 | 280.5 | 2.09E-04 | - | - | - |
| 282 | 8-Aug 05:00 | 8-Aug 06:00 | 281.5 | 1.09E-02 | - | - | - |
| 283 | 8-Aug 06:00 | 8-Aug 07:00 | 282.5 | 6.29E-03 | 8.11E-02 | - | 3.29E-02 |
| 284 | 8-Aug 07:00 | 8-Aug 08:00 | 283.5 | 3.88E-02 | 7.68E-02 | 1.83E-01 | 1.49E-01 |
| 285 | 8-Aug 08:00 | 8-Aug 09:00 | 284.5 | 9.40E-02 | 5.71E-02 | 1.57E-01 | 2.47E-01 |
| 286 | 8-Aug 09:00 | 8-Aug 10:00 | 285.5 | 1.50E-01 | 6.69E-02 | 1.65E-01 | 6.10E-01 |
| 287 | 8-Aug 10:00 | 8-Aug 11:00 | 286.5 | 6.17E-02 | 8.02E-02 | 1.81E-01 | 4.79E-01 |
| 288 | 8-Aug 11:00 | 8-Aug 12:00 | 287.5 | 3.50E-02 | 6.56E-02 | 2.41E-01 | 4.46E-01 |
| 289 | 8-Aug 12:00 | 8-Aug 13:00 | 288.5 | 1.40E-02 | 7.00E-02 | 2.88E-01 | 4.22E-01 |
| 290 | 8-Aug 13:00 | 8-Aug 14:00 | 289.5 | 1.51E-02 | 7.13E-02 | 3.65E-01 | 4.60E-01 |
| 291 | 8-Aug 14:00 | 8-Aug 15:00 | 290.5 | 8.75E-03 | 6.18E-02 | 3.49E-01 | 4.41E-01 |
| 292 | 8-Aug 15:00 | 8-Aug 16:00 | 291.5 | 6.31E-03 | 5.34E-02 | 2.57E-01 | 3.97E-01 |
| 293 | 8-Aug 16:00 | 8-Aug 17:00 | 292.5 | 5.18E-03 | 4.38E-02 | 2.41E-01 | 2.86E-01 |
| 294 | 8-Aug 17:00 | 8-Aug 18:00 | 293.5 | 3.29E-03 | 2.82E-02 | 1.10E-01 | 1.92E-01 |
| 295 | 8-Aug 18:00 | 8-Aug 19:00 | 294.5 | 2.25E-03 | 1.88E-02 | 6.12E-02 | 6.54E-02 |
| 296 | 8-Aug 19:00 | 8-Aug 20:00 | 295.5 | 1.59E-04 | 1.23E-03 | 4.92E-03 | 1.63E-03 |
| 297 | 8-Aug 20:00 | 8-Aug 21:00 | 296.5 | - | - | 7.78E-03 | - |
| 298 | 8-Aug 21:00 | 8-Aug 22:00 | 297.5 | 1.32E-05 | 1.73E-04 | - | 3.09E-04 |
| 299 | 8-Aug 22:00 | 8-Aug 23:00 | 298.5 | 4.33E-04 | 6.84E-03 | - | 1.05E-02 |
| 300 | 8-Aug 23:00 | 9-Aug 00:00 | 299.5 | 1.36E-02 | 2.11E-01 | - | 2.19E-01 |

-: omitted because of an erroneous result

Table A.7 Turbulent diffusivity of water vapor at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Turbulent diffusivity ($m^2 \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.3 m | 0.75 m | 1.25 m | 2.0 m |
| 301 | 9-Aug 00:00 | 9-Aug 01:00 | 300.5 | 2.16E-03 | 2.66E-02 | - | 3.10E-02 |
| 302 | 9-Aug 01:00 | 9-Aug 02:00 | 301.5 | - | - | - | - |
| 303 | 9-Aug 02:00 | 9-Aug 03:00 | 302.5 | 7.39E-04 | 5.39E-03 | 6.44E-03 | 1.01E-02 |
| 304 | 9-Aug 03:00 | 9-Aug 04:00 | 303.5 | - | - | - | - |
| 305 | 9-Aug 04:00 | 9-Aug 05:00 | 304.5 | - | 1.82E-02 | - | - |
| 306 | 9-Aug 05:00 | 9-Aug 06:00 | 305.5 | - | 5.65E-03 | 1.90E-02 | - |
| 307 | 9-Aug 06:00 | 9-Aug 07:00 | 306.5 | - | 1.06E-03 | 2.38E-03 | 8.55E-03 |
| 308 | 9-Aug 07:00 | 9-Aug 08:00 | 307.5 | 6.85E-03 | 1.60E-01 | 8.88E-02 | 3.84E-02 |
| 309 | 9-Aug 08:00 | 9-Aug 09:00 | 308.5 | 2.17E-02 | 1.03E+00 | 5.44E-02 | 9.68E-02 |
| 310 | 9-Aug 09:00 | 9-Aug 10:00 | 309.5 | 2.98E-02 | 1.99E-01 | 4.18E-02 | 2.43E-01 |
| 311 | 9-Aug 10:00 | 9-Aug 11:00 | 310.5 | 6.16E-02 | 1.74E-01 | 1.22E-01 | 3.93E-01 |
| 312 | 9-Aug 11:00 | 9-Aug 12:00 | 311.5 | 4.99E-02 | 1.33E-01 | 1.74E-01 | 3.74E-01 |
| 313 | 9-Aug 12:00 | 9-Aug 13:00 | 312.5 | 3.33E-02 | 1.21E-01 | 2.35E-01 | 3.42E-01 |
| 314 | 9-Aug 13:00 | 9-Aug 14:00 | 313.5 | 2.72E-02 | 1.42E-01 | 3.25E-01 | 4.17E-01 |
| 315 | 9-Aug 14:00 | 9-Aug 15:00 | 314.5 | 2.06E-02 | 1.49E-01 | 3.80E-01 | 4.53E-01 |
| 316 | 9-Aug 15:00 | 9-Aug 16:00 | 315.5 | 1.13E-02 | 1.24E-01 | 2.68E-01 | 3.27E-01 |
| 317 | 9-Aug 16:00 | 9-Aug 17:00 | 316.5 | 1.01E-02 | 1.24E-01 | 2.65E-01 | 3.85E-01 |
| 318 | 9-Aug 17:00 | 9-Aug 18:00 | 317.5 | 7.81E-03 | 1.04E-01 | 2.30E-01 | 3.22E-01 |
| 319 | 9-Aug 18:00 | 9-Aug 19:00 | 318.5 | 3.20E-03 | 1.01E-01 | 1.21E-01 | 1.64E-01 |
| 320 | 9-Aug 19:00 | 9-Aug 20:00 | 319.5 | 2.54E-03 | 5.42E-02 | 9.88E-02 | 1.23E-01 |
| 321 | 9-Aug 20:00 | 9-Aug 21:00 | 320.5 | - | 1.56E-02 | 2.05E-02 | 1.86E-01 |
| 322 | 9-Aug 21:00 | 9-Aug 22:00 | 321.5 | - | 3.24E-03 | 6.64E-03 | 2.14E-02 |
| 323 | 9-Aug 22:00 | 9-Aug 23:00 | 322.5 | - | 1.78E-03 | 2.86E-03 | 6.17E-03 |
| 324 | 9-Aug 23:00 | 10-Aug 00:00 | 323.5 | - | 1.25E-03 | 2.89E-03 | 5.55E-03 |
| 325 | 10-Aug 00:00 | 10-Aug 01:00 | 324.5 | - | 1.21E-03 | 3.39E-03 | 5.55E-03 |
| 326 | 10-Aug 01:00 | 10-Aug 02:00 | 325.5 | - | 7.49E-04 | 1.97E-03 | 3.47E-03 |
| 327 | 10-Aug 02:00 | 10-Aug 03:00 | 326.5 | - | 8.21E-04 | 2.04E-03 | 4.87E-03 |
| 328 | 10-Aug 03:00 | 10-Aug 04:00 | 327.5 | - | 1.32E-03 | 3.23E-03 | 5.01E-03 |
| 329 | 10-Aug 04:00 | 10-Aug 05:00 | 328.5 | - | 2.18E-03 | 6.97E-03 | 1.15E-02 |
| 330 | 10-Aug 05:00 | 10-Aug 06:00 | 329.5 | - | 5.26E-04 | 1.29E-03 | 1.53E-03 |
| 331 | 10-Aug 06:00 | 10-Aug 07:00 | 330.5 | 4.10E-03 | - | - | - |
| 332 | 10-Aug 07:00 | 10-Aug 08:00 | 331.5 | 2.90E-01 | - | 1.52E-01 | - |
| 333 | 10-Aug 08:00 | 10-Aug 09:00 | 332.5 | - | 2.36E-01 | 1.44E-01 | - |

-: omitted because of an erroneous result

Table A.8 Turbulent diffusivity of heat at various heights

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Turbulent diffusivity ($m^2 \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.3 m | 0.75 m | 1.25 m | 2.0 m |
| 1 | 27-Jul 12:00 | 27-Jul 13:00 | 0.5 | 1.14E-01 | 1.91E-01 | 1.01E+00 | 6.05E-01 |
| 2 | 27-Jul 13:00 | 27-Jul 14:00 | 1.5 | n.m. | n.m. | n.m. | n.m. |
| 3 | 27-Jul 14:00 | 27-Jul 15:00 | 2.5 | 7.04E-02 | 1.07E-01 | 1.71E+00 | 6.74E-01 |
| 4 | 27-Jul 15:00 | 27-Jul 16:00 | 3.5 | 3.04E-02 | 6.55E-02 | - | 3.17E-01 |
| 5 | 27-Jul 16:00 | 27-Jul 17:00 | 4.5 | 3.23E-02 | 6.03E-02 | 9.24E-01 | 3.00E-01 |
| 6 | 27-Jul 17:00 | 27-Jul 18:00 | 5.5 | 1.27E-02 | 2.89E-02 | 3.03E-01 | 1.39E-01 |
| 7 | 27-Jul 18:00 | 27-Jul 19:00 | 6.5 | 1.21E-02 | 2.46E-02 | 3.39E-01 | 1.15E-01 |
| 8 | 27-Jul 19:00 | 27-Jul 20:00 | 7.5 | 6.79E-03 | 1.98E-02 | 3.13E-01 | 4.52E-02 |
| 9 | 27-Jul 20:00 | 27-Jul 21:00 | 8.5 | - | 3.00E-02 | 5.38E-03 | - |
| 10 | 27-Jul 21:00 | 27-Jul 22:00 | 9.5 | 2.60E-03 | - | - | - |
| 11 | 27-Jul 22:00 | 27-Jul 23:00 | 10.5 | n.m. | n.m. | n.m. | n.m. |
| 12 | 27-Jul 23:00 | 28-Jul 00:00 | 11.5 | 5.95E-03 | - | - | - |
| 13 | 28-Jul 00:00 | 28-Jul 01:00 | 12.5 | 5.10E-03 | - | - | - |
| 14 | 28-Jul 01:00 | 28-Jul 02:00 | 13.5 | - | 3.90E-04 | 9.75E-04 | 1.34E-03 |
| 15 | 28-Jul 02:00 | 28-Jul 03:00 | 14.5 | - | 1.19E-03 | 3.80E-03 | 3.54E-03 |
| 16 | 28-Jul 03:00 | 28-Jul 04:00 | 15.5 | 3.48E-04 | - | - | - |
| 17 | 28-Jul 04:00 | 28-Jul 05:00 | 16.5 | 7.28E-03 | - | - | - |
| 18 | 28-Jul 05:00 | 28-Jul 06:00 | 17.5 | 2.00E-03 | - | - | - |
| 19 | 28-Jul 06:00 | 28-Jul 07:00 | 18.5 | 1.19E-02 | 8.58E-02 | 1.20E+00 | 8.79E-02 |
| 20 | 28-Jul 07:00 | 28-Jul 08:00 | 19.5 | 3.39E-02 | 1.45E-01 | 2.06E-01 | 1.30E-01 |
| 21 | 28-Jul 08:00 | 28-Jul 09:00 | 20.5 | 3.14E-02 | 9.71E-02 | 7.11E-02 | 1.51E-01 |
| 22 | 28-Jul 09:00 | 28-Jul 10:00 | 21.5 | 9.65E-02 | 9.40E-02 | 1.28E-01 | 3.68E-01 |
| 23 | 28-Jul 10:00 | 28-Jul 11:00 | 22.5 | 1.09E-01 | 1.23E-01 | 2.96E-01 | 3.94E-01 |
| 24 | 28-Jul 11:00 | 28-Jul 12:00 | 23.5 | 7.84E-02 | 9.56E-02 | 5.62E-01 | 3.53E-01 |
| 25 | 28-Jul 12:00 | 28-Jul 13:00 | 24.5 | 5.34E-02 | 9.31E-02 | 5.56E-01 | 3.39E-01 |
| 26 | 28-Jul 13:00 | 28-Jul 14:00 | 25.5 | 3.91E-02 | 5.70E-02 | 3.82E-01 | 3.41E-01 |
| 27 | 28-Jul 14:00 | 28-Jul 15:00 | 26.5 | 4.84E-02 | 7.80E-02 | - | 3.56E-01 |
| 28 | 28-Jul 15:00 | 28-Jul 16:00 | 27.5 | 1.76E-02 | 3.91E-02 | 2.55E-01 | 1.80E-01 |
| 29 | 28-Jul 16:00 | 28-Jul 17:00 | 28.5 | 2.26E-02 | 9.25E-02 | 8.82E-01 | 1.48E-01 |
| 30 | 28-Jul 17:00 | 28-Jul 18:00 | 29.5 | 2.39E-02 | 1.91E-02 | 1.23E-01 | 1.93E-01 |
| 31 | 28-Jul 18:00 | 28-Jul 19:00 | 30.5 | 6.47E-03 | 1.22E-02 | 7.82E-02 | 5.59E-02 |
| 32 | 28-Jul 19:00 | 28-Jul 20:00 | 31.5 | 7.69E-03 | 1.07E-02 | 5.70E-02 | 6.59E-02 |
| 33 | 28-Jul 20:00 | 28-Jul 21:00 | 32.5 | - | - | 3.18E-02 | - |
| 34 | 28-Jul 21:00 | 28-Jul 22:00 | 33.5 | - | 1.47E-03 | 2.06E-03 | 6.26E-03 |
| 35 | 28-Jul 22:00 | 28-Jul 23:00 | 34.5 | - | 6.39E-04 | 7.36E-04 | 1.52E-03 |
| 36 | 28-Jul 23:00 | 29-Jul 00:00 | 35.5 | - | 1.04E-03 | 3.15E-03 | 5.48E-03 |
| 37 | 29-Jul 00:00 | 29-Jul 01:00 | 36.5 | - | 1.93E-03 | 4.07E-03 | 5.39E-03 |
| 38 | 29-Jul 01:00 | 29-Jul 02:00 | 37.5 | - | 3.52E-04 | 8.77E-04 | 1.35E-03 |
| 39 | 29-Jul 02:00 | 29-Jul 03:00 | 38.5 | - | 2.93E-04 | 7.50E-04 | 9.73E-04 |
| 40 | 29-Jul 03:00 | 29-Jul 04:00 | 39.5 | - | 4.97E-05 | 1.10E-04 | 2.08E-04 |
| 41 | 29-Jul 04:00 | 29-Jul 05:00 | 40.5 | - | 1.13E-05 | 2.03E-05 | 4.05E-05 |
| 42 | 29-Jul 05:00 | 29-Jul 06:00 | 41.5 | 9.00E-04 | - | - | - |
| 43 | 29-Jul 06:00 | 29-Jul 07:00 | 42.5 | 8.67E-03 | - | - | - |
| 44 | 29-Jul 07:00 | 29-Jul 08:00 | 43.5 | 1.04E-01 | - | 2.43E-01 | 2.23E-01 |
| 45 | 29-Jul 08:00 | 29-Jul 09:00 | 44.5 | - | 8.63E-02 | 1.19E-01 | 4.31E-01 |
| 46 | 29-Jul 09:00 | 29-Jul 10:00 | 45.5 | 1.76E-01 | 1.16E-01 | 1.78E-01 | 2.96E-01 |
| 47 | 29-Jul 10:00 | 29-Jul 11:00 | 46.5 | 1.16E-01 | 1.29E-01 | 4.04E-01 | 2.77E-01 |
| 48 | 29-Jul 11:00 | 29-Jul 12:00 | 47.5 | 8.24E-02 | 1.06E-01 | 4.23E-01 | 3.02E-01 |
| 49 | 29-Jul 12:00 | 29-Jul 13:00 | 48.5 | 6.98E-02 | 1.13E-01 | 5.08E-01 | 3.63E-01 |
| 50 | 29-Jul 13:00 | 29-Jul 14:00 | 49.5 | 7.98E-02 | 1.29E-01 | 1.03E+00 | 3.70E-01 |

n.m.: not measured, -: omitted because of an erroneous result

Table A.8 Turbulent diffusivity of heat at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Turbulent diffusivity ($m^2 \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.3 m | 0.75 m | 1.25 m | 2.0 m |
| 51 | 29-Jul 14:00 | 29-Jul 15:00 | 50.5 | 5.71E-02 | 1.04E-01 | - | 3.37E-01 |
| 52 | 29-Jul 15:00 | 29-Jul 16:00 | 51.5 | 5.45E-02 | 1.03E-01 | 9.24E-01 | 3.57E-01 |
| 53 | 29-Jul 16:00 | 29-Jul 17:00 | 52.5 | 4.99E-02 | 7.60E-02 | 5.52E-01 | 2.90E-01 |
| 54 | 29-Jul 17:00 | 29-Jul 18:00 | 53.5 | 2.02E-02 | 4.00E-02 | 2.66E-01 | 1.41E-01 |
| 55 | 29-Jul 18:00 | 29-Jul 19:00 | 54.5 | 1.84E-02 | 4.72E-02 | - | 1.35E-01 |
| 56 | 29-Jul 19:00 | 29-Jul 20:00 | 55.5 | 2.87E-03 | 9.77E-03 | - | 1.87E-02 |
| 57 | 29-Jul 20:00 | 29-Jul 21:00 | 56.5 | - | - | 1.25E-02 | - |
| 58 | 29-Jul 21:00 | 29-Jul 22:00 | 57.5 | - | 4.91E-02 | 9.97E-03 | - |
| 59 | 29-Jul 22:00 | 29-Jul 23:00 | 58.5 | - | 2.45E-03 | 2.10E-03 | 2.97E-02 |
| 60 | 29-Jul 23:00 | 30-Jul 00:00 | 59.5 | - | 2.89E-03 | 6.01E-03 | 1.64E-02 |
| 61 | 30-Jul 00:00 | 30-Jul 01:00 | 60.5 | - | 2.68E-03 | 6.62E-03 | 8.94E-03 |
| 62 | 30-Jul 01:00 | 30-Jul 02:00 | 61.5 | - | 9.14E-04 | 2.69E-03 | 3.40E-03 |
| 63 | 30-Jul 02:00 | 30-Jul 03:00 | 62.5 | - | 7.39E-04 | 2.33E-03 | 2.89E-03 |
| 64 | 30-Jul 03:00 | 30-Jul 04:00 | 63.5 | - | 5.62E-04 | 1.62E-03 | 2.21E-03 |
| 65 | 30-Jul 04:00 | 30-Jul 05:00 | 64.5 | - | 4.50E-04 | 1.03E-03 | 1.64E-03 |
| 66 | 30-Jul 05:00 | 30-Jul 06:00 | 65.5 | - | 6.48E-04 | 1.73E-03 | 2.50E-03 |
| 67 | 30-Jul 06:00 | 30-Jul 07:00 | 66.5 | 9.19E-03 | - | - | - |
| 68 | 30-Jul 07:00 | 30-Jul 08:00 | 67.5 | 1.97E-02 | 1.46E-01 | 1.34E-01 | 8.34E-02 |
| 69 | 30-Jul 08:00 | 30-Jul 09:00 | 68.5 | 1.78E-02 | 8.15E-02 | 6.14E-02 | 8.13E-02 |
| 70 | 30-Jul 09:00 | 30-Jul 10:00 | 69.5 | 1.46E-02 | 8.59E-02 | 3.10E-02 | 7.50E-02 |
| 71 | 30-Jul 10:00 | 30-Jul 11:00 | 70.5 | 1.30E-02 | 8.81E-02 | 4.16E-02 | 6.54E-02 |
| 72 | 30-Jul 11:00 | 30-Jul 12:00 | 71.5 | 1.42E-02 | 2.08E-02 | 2.96E-02 | 8.82E-02 |
| 73 | 30-Jul 12:00 | 30-Jul 13:00 | 72.5 | 1.76E-02 | 4.35E-02 | 5.15E-02 | 1.27E-01 |
| 74 | 30-Jul 13:00 | 30-Jul 14:00 | 73.5 | 1.91E-02 | 4.48E-02 | 7.25E-02 | 1.32E-01 |
| 75 | 30-Jul 14:00 | 30-Jul 15:00 | 74.5 | 1.41E-02 | 7.31E-02 | 1.11E-01 | 8.88E-02 |
| 76 | 30-Jul 15:00 | 30-Jul 16:00 | 75.5 | 2.20E-02 | 5.36E-02 | 1.88E-01 | 1.39E-01 |
| 77 | 30-Jul 16:00 | 30-Jul 17:00 | 76.5 | 4.53E-02 | 9.91E-02 | 2.76E-01 | 2.04E-01 |
| 78 | 30-Jul 17:00 | 30-Jul 18:00 | 77.5 | 3.11E-02 | 6.99E-02 | 2.45E-01 | 1.95E-01 |
| 79 | 30-Jul 18:00 | 30-Jul 19:00 | 78.5 | 2.05E-02 | 4.50E-02 | 2.87E-01 | 1.60E-01 |
| 80 | 30-Jul 19:00 | 30-Jul 20:00 | 79.5 | 6.09E-03 | 6.96E-03 | 2.57E-02 | 4.58E-02 |
| 81 | 30-Jul 20:00 | 30-Jul 21:00 | 80.5 | - | 2.95E-02 | 1.55E-02 | - |
| 82 | 30-Jul 21:00 | 30-Jul 22:00 | 81.5 | - | 2.70E-03 | 4.30E-03 | 1.63E-02 |
| 83 | 30-Jul 22:00 | 30-Jul 23:00 | 82.5 | - | 5.12E-04 | 1.16E-03 | 2.61E-03 |
| 84 | 30-Jul 23:00 | 31-Jul 00:00 | 83.5 | - | 2.96E-04 | 5.86E-04 | 9.14E-04 |
| 85 | 31-Jul 00:00 | 31-Jul 01:00 | 84.5 | - | 7.13E-04 | 1.51E-03 | 2.56E-03 |
| 86 | 31-Jul 01:00 | 31-Jul 02:00 | 85.5 | - | 4.00E-04 | 7.59E-04 | 1.30E-03 |
| 87 | 31-Jul 02:00 | 31-Jul 03:00 | 86.5 | - | 1.40E-03 | 2.19E-03 | 3.02E-03 |
| 88 | 31-Jul 03:00 | 31-Jul 04:00 | 87.5 | 1.20E-03 | - | - | - |
| 89 | 31-Jul 04:00 | 31-Jul 05:00 | 88.5 | 7.38E-04 | - | - | - |
| 90 | 31-Jul 05:00 | 31-Jul 06:00 | 89.5 | - | 3.61E-04 | 8.45E-04 | 2.62E-03 |
| 91 | 31-Jul 06:00 | 31-Jul 07:00 | 90.5 | 3.40E-03 | - | - | 2.70E-01 |
| 92 | 31-Jul 07:00 | 31-Jul 08:00 | 91.5 | 3.15E-02 | 6.96E-02 | 2.84E-01 | 1.09E-01 |
| 93 | 31-Jul 08:00 | 31-Jul 09:00 | 92.5 | 4.08E-02 | 4.67E-02 | 1.11E-01 | 4.14E-01 |
| 94 | 31-Jul 09:00 | 31-Jul 10:00 | 93.5 | 4.11E-02 | 4.56E-02 | 1.36E-01 | 2.20E-01 |
| 95 | 31-Jul 10:00 | 31-Jul 11:00 | 94.5 | 5.34E-02 | 6.63E-02 | 1.44E-01 | 4.09E-01 |
| 96 | 31-Jul 11:00 | 31-Jul 12:00 | 95.5 | 4.58E-02 | 5.65E-02 | 1.33E-01 | 3.79E-01 |
| 97 | 31-Jul 12:00 | 31-Jul 13:00 | 96.5 | 3.93E-02 | 5.60E-02 | 1.87E-01 | 3.12E-01 |
| 98 | 31-Jul 13:00 | 31-Jul 14:00 | 97.5 | 4.06E-02 | 1.04E-01 | 3.85E-01 | 3.54E-01 |
| 99 | 31-Jul 14:00 | 31-Jul 15:00 | 98.5 | 3.67E-02 | 9.22E-02 | 3.87E-01 | 3.41E-01 |
| 100 | 31-Jul 15:00 | 31-Jul 16:00 | 99.5 | 3.41E-02 | 9.37E-02 | 3.82E-01 | 3.17E-01 |

-: omitted because of an erroneous result

Table A.8 Turbulent diffusivity of heat at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Turbulent diffusivity ($m^2 \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.3 m | 0.75 m | 1.25 m | 2.0 m |
| 101 | 31-Jul 16:00 | 31-Jul 17:00 | 100.5 | 2.70E-02 | 8.62E-02 | 2.08E-01 | 2.46E-01 |
| 102 | 31-Jul 17:00 | 31-Jul 18:00 | 101.5 | 1.35E-02 | 6.50E-02 | 1.54E-01 | 1.53E-01 |
| 103 | 31-Jul 18:00 | 31-Jul 19:00 | 102.5 | 9.34E-03 | 4.15E-02 | 1.55E-01 | 1.11E-01 |
| 104 | 31-Jul 19:00 | 31-Jul 20:00 | 103.5 | 1.01E-03 | 3.80E-03 | 8.78E-03 | 6.04E-03 |
| 105 | 31-Jul 20:00 | 31-Jul 21:00 | 104.5 | - | 1.11E-02 | 1.27E-02 | - |
| 106 | 31-Jul 21:00 | 31-Jul 22:00 | 105.5 | - | 2.72E-03 | 4.00E-03 | 1.18E-02 |
| 107 | 31-Jul 22:00 | 31-Jul 23:00 | 106.5 | - | 1.29E-03 | 1.89E-03 | 4.16E-03 |
| 108 | 31-Jul 23:00 | 1-Aug 00:00 | 107.5 | - | 3.39E-04 | 7.07E-04 | 1.56E-03 |
| 109 | 1-Aug 00:00 | 1-Aug 01:00 | 108.5 | - | 4.73E-04 | 9.83E-04 | 2.10E-03 |
| 110 | 1-Aug 01:00 | 1-Aug 02:00 | 109.5 | - | 3.65E-04 | 8.83E-04 | 1.55E-03 |
| 111 | 1-Aug 02:00 | 1-Aug 03:00 | 110.5 | - | 5.43E-04 | 1.35E-03 | 2.10E-03 |
| 112 | 1-Aug 03:00 | 1-Aug 04:00 | 111.5 | - | 1.30E-04 | 2.46E-04 | 3.78E-04 |
| 113 | 1-Aug 04:00 | 1-Aug 05:00 | 112.5 | 2.59E-03 | - | - | - |
| 114 | 1-Aug 05:00 | 1-Aug 06:00 | 113.5 | 3.37E-03 | - | - | - |
| 115 | 1-Aug 06:00 | 1-Aug 07:00 | 114.5 | 4.86E-03 | - | - | - |
| 116 | 1-Aug 07:00 | 1-Aug 08:00 | 115.5 | - | - | 4.42E-02 | 1.75E-01 |
| 117 | 1-Aug 08:00 | 1-Aug 09:00 | 116.5 | 8.37E-02 | 5.21E-02 | 6.57E-02 | 2.52E-01 |
| 118 | 1-Aug 09:00 | 1-Aug 10:00 | 117.5 | 7.58E-02 | 6.59E-02 | 1.34E-01 | 3.67E-01 |
| 119 | 1-Aug 10:00 | 1-Aug 11:00 | 118.5 | 5.41E-02 | 6.52E-02 | 2.04E-01 | 4.06E-01 |
| 120 | 1-Aug 11:00 | 1-Aug 12:00 | 119.5 | 3.49E-02 | 5.93E-02 | 1.74E-01 | 2.39E-01 |
| 121 | 1-Aug 12:00 | 1-Aug 13:00 | 120.5 | 4.73E-02 | 9.30E-02 | 3.08E-01 | 3.56E-01 |
| 122 | 1-Aug 13:00 | 1-Aug 14:00 | 121.5 | 2.58E-02 | 1.01E-01 | 2.10E-01 | 2.18E-01 |
| 123 | 1-Aug 14:00 | 1-Aug 15:00 | 122.5 | 1.83E-02 | 4.49E-02 | - | 8.29E-02 |
| 124 | 1-Aug 15:00 | 1-Aug 16:00 | 123.5 | 1.48E-02 | 2.32E-02 | 1.16E-01 | 6.50E-02 |
| 125 | 1-Aug 16:00 | 1-Aug 17:00 | 124.5 | 2.64E-02 | 2.35E-02 | 8.70E-02 | 2.26E-01 |
| 126 | 1-Aug 17:00 | 1-Aug 18:00 | 125.5 | 1.64E-02 | 2.57E-02 | 9.38E-02 | 1.34E-01 |
| 127 | 1-Aug 18:00 | 1-Aug 19:00 | 126.5 | 1.18E-02 | 1.53E-02 | 7.21E-02 | 1.15E-01 |
| 128 | 1-Aug 19:00 | 1-Aug 20:00 | 127.5 | 5.09E-03 | 1.30E-02 | 9.24E-02 | 4.47E-02 |
| 129 | 1-Aug 20:00 | 1-Aug 21:00 | 128.5 | - | 1.18E-01 | 2.32E-02 | - |
| 130 | 1-Aug 21:00 | 1-Aug 22:00 | 129.5 | - | 5.29E-03 | 6.16E-03 | 3.56E-02 |
| 131 | 1-Aug 22:00 | 1-Aug 23:00 | 130.5 | 1.90E-03 | - | - | - |
| 132 | 1-Aug 23:00 | 2-Aug 00:00 | 131.5 | 1.15E-03 | - | - | 1.20E-02 |
| 133 | 2-Aug 00:00 | 2-Aug 01:00 | 132.5 | 1.36E-03 | - | - | 1.35E-02 |
| 134 | 2-Aug 01:00 | 2-Aug 02:00 | 133.5 | 1.04E-02 | 1.67E-01 | - | 8.31E-02 |
| 135 | 2-Aug 02:00 | 2-Aug 03:00 | 134.5 | 1.10E-02 | 1.04E-01 | - | 9.26E-02 |
| 136 | 2-Aug 03:00 | 2-Aug 04:00 | 135.5 | 1.08E-02 | 7.46E-02 | - | 8.22E-02 |
| 137 | 2-Aug 04:00 | 2-Aug 05:00 | 136.5 | 9.08E-03 | 9.54E-02 | - | 7.14E-02 |
| 138 | 2-Aug 05:00 | 2-Aug 06:00 | 137.5 | 1.09E-02 | 7.05E-02 | - | 9.40E-02 |
| 139 | 2-Aug 06:00 | 2-Aug 07:00 | 138.5 | 9.72E-03 | 5.87E-02 | 8.69E-01 | 7.10E-02 |
| 140 | 2-Aug 07:00 | 2-Aug 08:00 | 139.5 | 1.30E-02 | 4.68E-02 | 2.16E-01 | 1.05E-01 |
| 141 | 2-Aug 08:00 | 2-Aug 09:00 | 140.5 | 1.49E-02 | 4.62E-02 | 1.87E-01 | 1.20E-01 |
| 142 | 2-Aug 09:00 | 2-Aug 10:00 | 141.5 | 3.73E-02 | 6.10E-02 | 2.62E-01 | 2.50E-01 |
| 143 | 2-Aug 10:00 | 2-Aug 11:00 | 142.5 | 4.19E-02 | 7.19E-02 | 2.28E-01 | 2.21E-01 |
| 144 | 2-Aug 11:00 | 2-Aug 12:00 | 143.5 | 5.80E-02 | 7.01E-02 | 1.96E-01 | 3.10E-01 |
| 145 | 2-Aug 12:00 | 2-Aug 13:00 | 144.5 | 3.55E-02 | 4.47E-02 | 1.55E-01 | 3.25E-01 |
| 146 | 2-Aug 13:00 | 2-Aug 14:00 | 145.5 | 6.84E-02 | 8.63E-02 | 4.60E-01 | 4.58E-01 |
| 147 | 2-Aug 14:00 | 2-Aug 15:00 | 146.5 | 4.64E-02 | 5.77E-02 | 3.07E-01 | 4.04E-01 |
| 148 | 2-Aug 15:00 | 2-Aug 16:00 | 147.5 | 3.69E-02 | 5.31E-02 | 2.75E-01 | 3.72E-01 |
| 149 | 2-Aug 16:00 | 2-Aug 17:00 | 148.5 | 2.55E-02 | 3.17E-02 | 1.45E-01 | 2.74E-01 |
| 150 | 2-Aug 17:00 | 2-Aug 18:00 | 149.5 | 1.41E-02 | 1.65E-02 | 8.01E-02 | 1.57E-01 |

-: omitted because of an erroneous result

Table A.8 Turbulent diffusivity of heat at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Turbulent diffusivity ($m^2 \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.3 m | 0.75 m | 1.25 m | 2.0 m |
| 151 | 2-Aug 18:00 | 2-Aug 19:00 | 150.5 | 1.08E-02 | 1.32E-02 | 5.71E-02 | 1.21E-01 |
| 152 | 2-Aug 19:00 | 2-Aug 20:00 | 151.5 | 6.14E-03 | 2.49E-02 | 1.82E-01 | 4.43E-02 |
| 153 | 2-Aug 20:00 | 2-Aug 21:00 | 152.5 | 6.46E-04 | 8.46E-03 | - | 4.28E-03 |
| 154 | 2-Aug 21:00 | 2-Aug 22:00 | 153.5 | 9.27E-04 | - | - | - |
| 155 | 2-Aug 22:00 | 2-Aug 23:00 | 154.5 | - | 1.62E-04 | 2.41E-04 | 6.33E-04 |
| 156 | 2-Aug 23:00 | 3-Aug 00:00 | 155.5 | 6.54E-03 | - | - | - |
| 157 | 3-Aug 00:00 | 3-Aug 01:00 | 156.5 | 4.62E-03 | - | - | - |
| 158 | 3-Aug 01:00 | 3-Aug 02:00 | 157.5 | - | 1.30E-03 | 3.97E-03 | 7.15E-03 |
| 159 | 3-Aug 02:00 | 3-Aug 03:00 | 158.5 | 6.93E-03 | - | - | - |
| 160 | 3-Aug 03:00 | 3-Aug 04:00 | 159.5 | - | 9.07E-04 | 4.72E-03 | 1.60E-02 |
| 161 | 3-Aug 04:00 | 3-Aug 05:00 | 160.5 | - | 6.95E-04 | 2.78E-03 | 5.10E-03 |
| 162 | 3-Aug 05:00 | 3-Aug 06:00 | 161.5 | 1.51E-03 | - | - | 3.18E-01 |
| 163 | 3-Aug 06:00 | 3-Aug 07:00 | 162.5 | 6.68E-03 | - | 1.30E-01 | 4.75E-02 |
| 164 | 3-Aug 07:00 | 3-Aug 08:00 | 163.5 | 1.80E-02 | 7.11E-02 | 1.31E-01 | 9.15E-02 |
| 165 | 3-Aug 08:00 | 3-Aug 09:00 | 164.5 | 2.62E-02 | 3.18E-02 | 1.02E-01 | 1.53E-01 |
| 166 | 3-Aug 09:00 | 3-Aug 10:00 | 165.5 | 4.35E-02 | 5.36E-02 | 1.22E-01 | 2.65E-01 |
| 167 | 3-Aug 10:00 | 3-Aug 11:00 | 166.5 | 5.77E-02 | 6.77E-02 | 1.15E-01 | 3.11E-01 |
| 168 | 3-Aug 11:00 | 3-Aug 12:00 | 167.5 | 4.68E-02 | 5.10E-02 | 1.65E-01 | 2.77E-01 |
| 169 | 3-Aug 12:00 | 3-Aug 13:00 | 168.5 | 5.34E-02 | 6.14E-02 | 2.02E-01 | 3.03E-01 |
| 170 | 3-Aug 13:00 | 3-Aug 14:00 | 169.5 | 4.74E-02 | 1.01E-01 | 3.87E-01 | 2.81E-01 |
| 171 | 3-Aug 14:00 | 3-Aug 15:00 | 170.5 | 5.20E-02 | 8.41E-02 | 6.57E-01 | 3.60E-01 |
| 172 | 3-Aug 15:00 | 3-Aug 16:00 | 171.5 | 3.28E-02 | 6.28E-02 | 3.60E-01 | 2.93E-01 |
| 173 | 3-Aug 16:00 | 3-Aug 17:00 | 172.5 | 2.83E-02 | 6.85E-02 | 3.48E-01 | 2.97E-01 |
| 174 | 3-Aug 17:00 | 3-Aug 18:00 | 173.5 | 1.82E-02 | 4.82E-02 | 2.67E-01 | 2.31E-01 |
| 175 | 3-Aug 18:00 | 3-Aug 19:00 | 174.5 | 1.23E-02 | 3.77E-02 | 1.75E-01 | 1.53E-01 |
| 176 | 3-Aug 19:00 | 3-Aug 20:00 | 175.5 | 2.66E-03 | 6.88E-03 | 3.08E-02 | 2.57E-02 |
| 177 | 3-Aug 20:00 | 3-Aug 21:00 | 176.5 | 2.30E-03 | - | - | 5.24E-02 |
| 178 | 3-Aug 21:00 | 3-Aug 22:00 | 177.5 | 1.04E-02 | - | - | - |
| 179 | 3-Aug 22:00 | 3-Aug 23:00 | 178.5 | 5.97E-03 | - | - | - |
| 180 | 3-Aug 23:00 | 4-Aug 00:00 | 179.5 | 4.73E-03 | - | - | - |
| 181 | 4-Aug 00:00 | 4-Aug 01:00 | 180.5 | 5.10E-03 | - | - | - |
| 182 | 4-Aug 01:00 | 4-Aug 02:00 | 181.5 | 3.56E-03 | - | - | - |
| 183 | 4-Aug 02:00 | 4-Aug 03:00 | 182.5 | 3.04E-03 | 4.76E-02 | 1.57E-02 | 4.17E-02 |
| 184 | 4-Aug 03:00 | 4-Aug 04:00 | 183.5 | 1.35E-03 | 4.00E-03 | 1.64E-02 | 1.64E-02 |
| 185 | 4-Aug 04:00 | 4-Aug 05:00 | 184.5 | 5.00E-04 | 2.89E-03 | - | 3.24E-03 |
| 186 | 4-Aug 05:00 | 4-Aug 06:00 | 185.5 | 3.16E-03 | 2.05E-02 | - | 1.89E-02 |
| 187 | 4-Aug 06:00 | 4-Aug 07:00 | 186.5 | 2.16E-03 | 8.64E-03 | 1.03E-02 | 2.64E-02 |
| 188 | 4-Aug 07:00 | 4-Aug 08:00 | 187.5 | 4.59E-03 | 2.07E-02 | 2.88E-02 | 6.63E-02 |
| 189 | 4-Aug 08:00 | 4-Aug 09:00 | 188.5 | 4.81E-03 | 1.41E-02 | 2.80E-02 | 6.19E-02 |
| 190 | 4-Aug 09:00 | 4-Aug 10:00 | 189.5 | 1.24E-02 | 3.13E-02 | 7.33E-02 | 1.47E-01 |
| 191 | 4-Aug 10:00 | 4-Aug 11:00 | 190.5 | 1.20E-02 | 2.61E-02 | 7.06E-02 | 1.28E-01 |
| 192 | 4-Aug 11:00 | 4-Aug 12:00 | 191.5 | 1.93E-02 | 2.99E-02 | 8.74E-02 | 1.82E-01 |
| 193 | 4-Aug 12:00 | 4-Aug 13:00 | 192.5 | 1.22E-02 | 2.10E-02 | 4.92E-02 | 1.03E-01 |
| 194 | 4-Aug 13:00 | 4-Aug 14:00 | 193.5 | 1.33E-02 | 6.90E-02 | 6.01E-02 | 8.23E-02 |
| 195 | 4-Aug 14:00 | 4-Aug 15:00 | 194.5 | 1.78E-02 | 1.73E-01 | 7.23E-02 | 9.55E-02 |
| 196 | 4-Aug 15:00 | 4-Aug 16:00 | 195.5 | 2.08E-02 | 1.36E-01 | 5.52E-02 | 1.24E-01 |
| 197 | 4-Aug 16:00 | 4-Aug 17:00 | 196.5 | 4.11E-02 | 1.35E-01 | 6.39E-02 | 2.54E-01 |
| 198 | 4-Aug 17:00 | 4-Aug 18:00 | 197.5 | 3.73E-02 | 1.14E-01 | 6.13E-02 | 2.65E-01 |
| 199 | 4-Aug 18:00 | 4-Aug 19:00 | 198.5 | 3.05E-02 | 1.12E-01 | 5.25E-02 | 2.27E-01 |
| 200 | 4-Aug 19:00 | 4-Aug 20:00 | 199.5 | 2.80E-02 | 1.23E-01 | 4.78E-02 | 2.26E-01 |

-: omitted because of an erroneous result

Table A.8 Turbulent diffusivity of heat at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Turbulent diffusivity ($m^2 \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.3 m | 0.75 m | 1.25 m | 2.0 m |
| 201 | 4-Aug 20:00 | 4-Aug 21:00 | 200.5 | 2.05E-02 | 1.63E-01 | 4.57E-02 | 2.15E-01 |
| 202 | 4-Aug 21:00 | 4-Aug 22:00 | 201.5 | 2.07E-02 | 1.46E-01 | 5.95E-02 | 2.30E-01 |
| 203 | 4-Aug 22:00 | 4-Aug 23:00 | 202.5 | 1.87E-02 | 1.51E-01 | 7.38E-02 | 2.20E-01 |
| 204 | 4-Aug 23:00 | 5-Aug 00:00 | 203.5 | 1.74E-02 | 1.34E-01 | 1.19E-01 | 1.93E-01 |
| 205 | 5-Aug 00:00 | 5-Aug 01:00 | 204.5 | 1.50E-02 | 8.97E-02 | 1.54E-01 | 1.47E-01 |
| 206 | 5-Aug 01:00 | 5-Aug 02:00 | 205.5 | 1.18E-02 | 7.90E-02 | 2.29E-01 | 9.97E-02 |
| 207 | 5-Aug 02:00 | 5-Aug 03:00 | 206.5 | 1.20E-02 | 1.05E-01 | 4.00E-01 | 1.05E-01 |
| 208 | 5-Aug 03:00 | 5-Aug 04:00 | 207.5 | - | 3.79E-02 | 1.52E-01 | - |
| 209 | 5-Aug 04:00 | 5-Aug 05:00 | 208.5 | - | 2.46E-02 | 6.37E-02 | 2.39E-01 |
| 210 | 5-Aug 05:00 | 5-Aug 06:00 | 209.5 | - | 8.42E-03 | 1.73E-02 | 6.53E-02 |
| 211 | 5-Aug 06:00 | 5-Aug 07:00 | 210.5 | - | 6.85E-03 | 1.93E-02 | 5.47E-02 |
| 212 | 5-Aug 07:00 | 5-Aug 08:00 | 211.5 | 5.42E-02 | - | 2.13E-01 | 1.97E-01 |
| 213 | 5-Aug 08:00 | 5-Aug 09:00 | 212.5 | - | 2.07E-01 | 2.46E-01 | 3.06E-01 |
| 214 | 5-Aug 09:00 | 5-Aug 10:00 | 213.5 | 1.01E+00 | 1.90E-01 | 2.97E-01 | 4.01E-01 |
| 215 | 5-Aug 10:00 | 5-Aug 11:00 | 214.5 | 1.68E-01 | 1.75E-01 | 3.59E-01 | 3.80E-01 |
| 216 | 5-Aug 11:00 | 5-Aug 12:00 | 215.5 | 1.80E-01 | 1.65E-01 | 4.11E-01 | 5.02E-01 |
| 217 | 5-Aug 12:00 | 5-Aug 13:00 | 216.5 | 1.08E-01 | 1.30E-01 | 3.12E-01 | 3.95E-01 |
| 218 | 5-Aug 13:00 | 5-Aug 14:00 | 217.5 | 8.63E-02 | 1.36E-01 | 4.33E-01 | 4.32E-01 |
| 219 | 5-Aug 14:00 | 5-Aug 15:00 | 218.5 | 6.90E-02 | 1.32E-01 | 4.04E-01 | 4.05E-01 |
| 220 | 5-Aug 15:00 | 5-Aug 16:00 | 219.5 | 3.75E-02 | 1.06E-01 | 2.24E-01 | 3.23E-01 |
| 221 | 5-Aug 16:00 | 5-Aug 17:00 | 220.5 | 3.22E-02 | 9.25E-02 | 1.83E-01 | 2.99E-01 |
| 222 | 5-Aug 17:00 | 5-Aug 18:00 | 221.5 | 2.05E-02 | 5.71E-02 | 1.65E-01 | 2.59E-01 |
| 223 | 5-Aug 18:00 | 5-Aug 19:00 | 222.5 | 1.84E-02 | 7.24E-02 | 1.59E-01 | 2.54E-01 |
| 224 | 5-Aug 19:00 | 5-Aug 20:00 | 223.5 | - | - | - | - |
| 225 | 5-Aug 20:00 | 5-Aug 21:00 | 224.5 | - | 1.79E-02 | 2.18E-02 | - |
| 226 | 5-Aug 21:00 | 5-Aug 22:00 | 225.5 | - | 1.48E-03 | 2.84E-03 | 7.07E-03 |
| 227 | 5-Aug 22:00 | 5-Aug 23:00 | 226.5 | - | 4.25E-04 | 7.79E-04 | 1.74E-03 |
| 228 | 5-Aug 23:00 | 6-Aug 00:00 | 227.5 | - | 4.04E-04 | 7.17E-04 | 2.03E-03 |
| 229 | 6-Aug 00:00 | 6-Aug 01:00 | 228.5 | - | 3.30E-04 | 9.36E-04 | 1.77E-03 |
| 230 | 6-Aug 01:00 | 6-Aug 02:00 | 229.5 | - | 9.58E-04 | 2.24E-03 | 3.69E-03 |
| 231 | 6-Aug 02:00 | 6-Aug 03:00 | 230.5 | - | 5.07E-04 | 1.46E-03 | 2.80E-03 |
| 232 | 6-Aug 03:00 | 6-Aug 04:00 | 231.5 | 7.92E-04 | - | - | - |
| 233 | 6-Aug 04:00 | 6-Aug 05:00 | 232.5 | 3.36E-03 | - | - | - |
| 234 | 6-Aug 05:00 | 6-Aug 06:00 | 233.5 | - | 6.05E-04 | 1.81E-03 | 4.68E-03 |
| 235 | 6-Aug 06:00 | 6-Aug 07:00 | 234.5 | 2.88E-03 | - | - | 3.27E-02 |
| 236 | 6-Aug 07:00 | 6-Aug 08:00 | 235.5 | 2.36E-02 | 2.94E-01 | 3.49E-01 | 1.21E-01 |
| 237 | 6-Aug 08:00 | 6-Aug 09:00 | 236.5 | 9.39E-02 | 5.73E-02 | 1.12E-01 | 2.32E-01 |
| 238 | 6-Aug 09:00 | 6-Aug 10:00 | 237.5 | 1.79E-01 | 5.96E-02 | 1.45E-01 | 3.98E-01 |
| 239 | 6-Aug 10:00 | 6-Aug 11:00 | 238.5 | 1.18E-01 | 8.77E-02 | 1.59E-01 | 4.73E-01 |
| 240 | 6-Aug 11:00 | 6-Aug 12:00 | 239.5 | 8.97E-02 | 5.69E-02 | 1.64E-01 | 4.12E-01 |
| 241 | 6-Aug 12:00 | 6-Aug 13:00 | 240.5 | 5.62E-02 | 5.20E-02 | 1.80E-01 | 3.86E-01 |
| 242 | 6-Aug 13:00 | 6-Aug 14:00 | 241.5 | 3.23E-02 | 4.67E-02 | 1.99E-01 | 3.63E-01 |
| 243 | 6-Aug 14:00 | 6-Aug 15:00 | 242.5 | 1.88E-02 | 4.46E-02 | 2.06E-01 | 3.59E-01 |
| 244 | 6-Aug 15:00 | 6-Aug 16:00 | 243.5 | 2.03E-02 | 5.54E-02 | 3.01E-01 | 3.51E-01 |
| 245 | 6-Aug 16:00 | 6-Aug 17:00 | 244.5 | 9.47E-03 | 2.77E-02 | 9.61E-02 | 1.99E-01 |
| 246 | 6-Aug 17:00 | 6-Aug 18:00 | 245.5 | 8.00E-03 | 2.43E-02 | 9.74E-02 | 1.47E-01 |
| 247 | 6-Aug 18:00 | 6-Aug 19:00 | 246.5 | 7.04E-03 | 2.74E-02 | 7.32E-02 | 6.15E-02 |
| 248 | 6-Aug 19:00 | 6-Aug 20:00 | 247.5 | - | - | - | - |
| 249 | 6-Aug 20:00 | 6-Aug 21:00 | 248.5 | - | 1.22E-02 | 1.58E-02 | - |
| 250 | 6-Aug 21:00 | 6-Aug 22:00 | 249.5 | - | 1.17E-03 | 1.85E-03 | 6.10E-03 |

-: omitted because of an erroneous result

Table A.8 Turbulent diffusivity of heat at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Turbulent diffusivity ($m^2 \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.3 m | 0.75 m | 1.25 m | 2.0 m |
| 251 | 6-Aug 22:00 | 6-Aug 23:00 | 250.5 | 5.58E-03 | - | - | - |
| 252 | 6-Aug 23:00 | 7-Aug 00:00 | 251.5 | - | 1.29E-03 | 2.15E-03 | 4.34E-03 |
| 253 | 7-Aug 00:00 | 7-Aug 01:00 | 252.5 | - | 1.11E-03 | 2.46E-03 | 5.57E-03 |
| 254 | 7-Aug 01:00 | 7-Aug 02:00 | 253.5 | - | 7.74E-04 | 2.02E-03 | 3.12E-03 |
| 255 | 7-Aug 02:00 | 7-Aug 03:00 | 254.5 | - | 6.73E-04 | 1.49E-03 | 2.81E-03 |
| 256 | 7-Aug 03:00 | 7-Aug 04:00 | 255.5 | - | 4.45E-04 | 9.85E-04 | 1.66E-03 |
| 257 | 7-Aug 04:00 | 7-Aug 05:00 | 256.5 | 5.88E-04 | - | - | - |
| 258 | 7-Aug 05:00 | 7-Aug 06:00 | 257.5 | 5.11E-03 | - | - | - |
| 259 | 7-Aug 06:00 | 7-Aug 07:00 | 258.5 | 1.10E-02 | - | 1.47E-01 | 7.34E-02 |
| 260 | 7-Aug 07:00 | 7-Aug 08:00 | 259.5 | 1.81E-02 | 8.58E-02 | 4.68E-01 | 9.72E-02 |
| 261 | 7-Aug 08:00 | 7-Aug 09:00 | 260.5 | 4.66E-02 | 7.28E-02 | 1.71E-01 | 2.11E-01 |
| 262 | 7-Aug 09:00 | 7-Aug 10:00 | 261.5 | 8.73E-02 | 4.72E-02 | 1.54E-01 | 3.74E-01 |
| 263 | 7-Aug 10:00 | 7-Aug 11:00 | 262.5 | 9.16E-02 | 7.09E-02 | 1.47E-01 | 4.11E-01 |
| 264 | 7-Aug 11:00 | 7-Aug 12:00 | 263.5 | 5.12E-02 | 5.27E-02 | 1.50E-01 | 3.29E-01 |
| 265 | 7-Aug 12:00 | 7-Aug 13:00 | 264.5 | 1.77E-02 | 4.66E-02 | 1.42E-01 | 2.92E-01 |
| 266 | 7-Aug 13:00 | 7-Aug 14:00 | 265.5 | 2.11E-02 | 5.93E-02 | 2.52E-01 | 3.83E-01 |
| 267 | 7-Aug 14:00 | 7-Aug 15:00 | 266.5 | 1.32E-02 | 8.14E-02 | 4.60E-01 | 4.16E-01 |
| 268 | 7-Aug 15:00 | 7-Aug 16:00 | 267.5 | #DIV/0! | 5.86E-02 | 2.76E-01 | 3.79E-01 |
| 269 | 7-Aug 16:00 | 7-Aug 17:00 | 268.5 | 8.71E-03 | 4.82E-02 | 2.44E-01 | 3.73E-01 |
| 270 | 7-Aug 17:00 | 7-Aug 18:00 | 269.5 | 4.58E-03 | 2.11E-02 | 9.53E-02 | 2.00E-01 |
| 271 | 7-Aug 18:00 | 7-Aug 19:00 | 270.5 | 4.07E-03 | 1.67E-02 | 7.53E-02 | 1.88E-01 |
| 272 | 7-Aug 19:00 | 7-Aug 20:00 | 271.5 | 2.85E-04 | 1.56E-03 | 4.61E-03 | 4.10E-03 |
| 273 | 7-Aug 20:00 | 7-Aug 21:00 | 272.5 | - | 1.32E-02 | 1.13E-02 | 1.43E-01 |
| 274 | 7-Aug 21:00 | 7-Aug 22:00 | 273.5 | - | 1.46E-04 | 1.99E-04 | 5.90E-04 |
| 275 | 7-Aug 22:00 | 7-Aug 23:00 | 274.5 | 1.28E-03 | - | - | - |
| 276 | 7-Aug 23:00 | 8-Aug 00:00 | 275.5 | 1.15E-03 | - | - | - |
| 277 | 8-Aug 00:00 | 8-Aug 01:00 | 276.5 | - | 1.89E-04 | 2.90E-04 | 4.48E-04 |
| 278 | 8-Aug 01:00 | 8-Aug 02:00 | 277.5 | - | 1.69E-04 | 3.34E-04 | 6.36E-04 |
| 279 | 8-Aug 02:00 | 8-Aug 03:00 | 278.5 | - | 2.39E-04 | 5.04E-04 | 1.17E-03 |
| 280 | 8-Aug 03:00 | 8-Aug 04:00 | 279.5 | - | 2.53E-04 | 5.55E-04 | 1.22E-03 |
| 281 | 8-Aug 04:00 | 8-Aug 05:00 | 280.5 | 2.07E-04 | - | - | - |
| 282 | 8-Aug 05:00 | 8-Aug 06:00 | 281.5 | 1.06E-02 | - | - | - |
| 283 | 8-Aug 06:00 | 8-Aug 07:00 | 282.5 | 6.10E-03 | 7.98E-02 | - | 3.16E-02 |
| 284 | 8-Aug 07:00 | 8-Aug 08:00 | 283.5 | 3.70E-02 | 7.24E-02 | 1.72E-01 | 1.40E-01 |
| 285 | 8-Aug 08:00 | 8-Aug 09:00 | 284.5 | 8.65E-02 | 5.41E-02 | 1.46E-01 | 2.30E-01 |
| 286 | 8-Aug 09:00 | 8-Aug 10:00 | 285.5 | 1.50E-01 | 6.41E-02 | 1.59E-01 | 4.99E-01 |
| 287 | 8-Aug 10:00 | 8-Aug 11:00 | 286.5 | 6.09E-02 | 7.77E-02 | 1.70E-01 | 4.27E-01 |
| 288 | 8-Aug 11:00 | 8-Aug 12:00 | 287.5 | 3.48E-02 | 6.34E-02 | 2.15E-01 | 4.11E-01 |
| 289 | 8-Aug 12:00 | 8-Aug 13:00 | 288.5 | 1.39E-02 | 6.80E-02 | 2.57E-01 | 3.97E-01 |
| 290 | 8-Aug 13:00 | 8-Aug 14:00 | 289.5 | 1.50E-02 | 6.90E-02 | 3.48E-01 | 4.31E-01 |
| 291 | 8-Aug 14:00 | 8-Aug 15:00 | 290.5 | 8.70E-03 | 6.01E-02 | 3.51E-01 | 4.15E-01 |
| 292 | 8-Aug 15:00 | 8-Aug 16:00 | 291.5 | 6.27E-03 | 5.24E-02 | 2.61E-01 | 3.73E-01 |
| 293 | 8-Aug 16:00 | 8-Aug 17:00 | 292.5 | 5.15E-03 | 4.30E-02 | 2.47E-01 | 2.68E-01 |
| 294 | 8-Aug 17:00 | 8-Aug 18:00 | 293.5 | 3.27E-03 | 2.79E-02 | 1.12E-01 | 1.84E-01 |
| 295 | 8-Aug 18:00 | 8-Aug 19:00 | 294.5 | 2.24E-03 | 1.87E-02 | 6.17E-02 | 6.32E-02 |
| 296 | 8-Aug 19:00 | 8-Aug 20:00 | 295.5 | 1.57E-04 | 1.22E-03 | 5.08E-03 | 1.63E-03 |
| 297 | 8-Aug 20:00 | 8-Aug 21:00 | 296.5 | - | - | 4.35E-03 | - |
| 298 | 8-Aug 21:00 | 8-Aug 22:00 | 297.5 | 1.33E-05 | 1.83E-04 | - | 3.19E-04 |
| 299 | 8-Aug 22:00 | 8-Aug 23:00 | 298.5 | 4.33E-04 | 7.23E-03 | - | 1.06E-02 |
| 300 | 8-Aug 23:00 | 9-Aug 00:00 | 299.5 | 1.33E-02 | 2.20E-01 | - | 2.14E-01 |

-: omitted because of an erroneous result

Table A.8 Turbulent diffusivity of heat at various heights (cont'd)

| No. | Time measurement started | Time measurement stopped | Elapsed time (h) | Turbulent diffusivity ($m^2 \cdot s^{-1}$) | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.3 m | 0.75 m | 1.25 m | 2.0 m |
| 301 | 9-Aug 00:00 | 9-Aug 01:00 | 300.5 | 2.11E-03 | 2.66E-02 | - | 2.97E-02 |
| 302 | 9-Aug 01:00 | 9-Aug 02:00 | 301.5 | - | - | - | - |
| 303 | 9-Aug 02:00 | 9-Aug 03:00 | 302.5 | 7.20E-04 | 5.06E-03 | 6.35E-03 | 9.63E-03 |
| 304 | 9-Aug 03:00 | 9-Aug 04:00 | 303.5 | - | - | - | - |
| 305 | 9-Aug 04:00 | 9-Aug 05:00 | 304.5 | - | 1.71E-02 | - | - |
| 306 | 9-Aug 05:00 | 9-Aug 06:00 | 305.5 | - | 5.31E-03 | 1.52E-02 | - |
| 307 | 9-Aug 06:00 | 9-Aug 07:00 | 306.5 | - | 9.93E-04 | 2.17E-03 | 7.89E-03 |
| 308 | 9-Aug 07:00 | 9-Aug 08:00 | 307.5 | 6.66E-03 | 1.51E-01 | 8.80E-02 | 3.65E-02 |
| 309 | 9-Aug 08:00 | 9-Aug 09:00 | 308.5 | 2.06E-02 | 1.12E+00 | 5.32E-02 | 9.34E-02 |
| 310 | 9-Aug 09:00 | 9-Aug 10:00 | 309.5 | 2.92E-02 | 2.06E-01 | 4.14E-02 | 2.19E-01 |
| 311 | 9-Aug 10:00 | 9-Aug 11:00 | 310.5 | 6.10E-02 | 1.70E-01 | 1.20E-01 | 3.55E-01 |
| 312 | 9-Aug 11:00 | 9-Aug 12:00 | 311.5 | 4.88E-02 | 1.30E-01 | 1.69E-01 | 3.45E-01 |
| 313 | 9-Aug 12:00 | 9-Aug 13:00 | 312.5 | 3.27E-02 | 1.19E-01 | 2.26E-01 | 3.23E-01 |
| 314 | 9-Aug 13:00 | 9-Aug 14:00 | 313.5 | 2.69E-02 | 1.38E-01 | 3.11E-01 | 3.89E-01 |
| 315 | 9-Aug 14:00 | 9-Aug 15:00 | 314.5 | 2.04E-02 | 1.45E-01 | 3.66E-01 | 4.22E-01 |
| 316 | 9-Aug 15:00 | 9-Aug 16:00 | 315.5 | 1.12E-02 | 1.21E-01 | 2.59E-01 | 3.07E-01 |
| 317 | 9-Aug 16:00 | 9-Aug 17:00 | 316.5 | 1.00E-02 | 1.22E-01 | 2.56E-01 | 3.66E-01 |
| 318 | 9-Aug 17:00 | 9-Aug 18:00 | 317.5 | 7.74E-03 | 1.02E-01 | 2.25E-01 | 3.07E-01 |
| 319 | 9-Aug 18:00 | 9-Aug 19:00 | 318.5 | 3.17E-03 | 1.03E-01 | 1.21E-01 | 1.56E-01 |
| 320 | 9-Aug 19:00 | 9-Aug 20:00 | 319.5 | 2.52E-03 | 5.40E-02 | 9.85E-02 | 1.15E-01 |
| 321 | 9-Aug 20:00 | 9-Aug 21:00 | 320.5 | - | 1.16E-02 | 1.98E-02 | 2.06E-01 |
| 322 | 9-Aug 21:00 | 9-Aug 22:00 | 321.5 | - | 2.97E-03 | 6.31E-03 | 1.90E-02 |
| 323 | 9-Aug 22:00 | 9-Aug 23:00 | 322.5 | - | 1.61E-03 | 2.74E-03 | 5.73E-03 |
| 324 | 9-Aug 23:00 | 10-Aug 00:00 | 323.5 | - | 1.16E-03 | 2.75E-03 | 5.19E-03 |
| 325 | 10-Aug 00:00 | 10-Aug 01:00 | 324.5 | - | 1.12E-03 | 3.22E-03 | 5.15E-03 |
| 326 | 10-Aug 01:00 | 10-Aug 02:00 | 325.5 | - | 7.01E-04 | 1.85E-03 | 3.25E-03 |
| 327 | 10-Aug 02:00 | 10-Aug 03:00 | 326.5 | - | 7.66E-04 | 1.94E-03 | 4.54E-03 |
| 328 | 10-Aug 03:00 | 10-Aug 04:00 | 327.5 | - | 1.24E-03 | 3.01E-03 | 4.69E-03 |
| 329 | 10-Aug 04:00 | 10-Aug 05:00 | 328.5 | - | 2.05E-03 | 6.53E-03 | 1.07E-02 |
| 330 | 10-Aug 05:00 | 10-Aug 06:00 | 329.5 | - | 4.93E-04 | 1.22E-03 | 1.41E-03 |
| 331 | 10-Aug 06:00 | 10-Aug 07:00 | 330.5 | 4.08E-03 | - | - | - |
| 332 | 10-Aug 07:00 | 10-Aug 08:00 | 331.5 | 2.55E-01 | - | 1.52E-01 | - |
| 333 | 10-Aug 08:00 | 10-Aug 09:00 | 332.5 | - | 2.41E-01 | 1.41E-01 | - |

-: omitted because of an erroneous result

Table A.9 Rainfall measured by JAERI

| No. | Time sampler placed | Time sampler collected | Time rain started | Time rain stopped | Rainfall (mm) |
|---|---|---|---|---|---|
| BG1 | 25-Jul 18:00 | 26-Jul 10:40 | 25-Jul 18:00 | 26-Jul 10:40 | 5.9 |
| BG2 | 26-Jul 10:40 | 26-Jul 14:55 | 26-Jul 13:05 | 26-Jul 14:40 | 2.4 |
| BG3 | 26-Jul 15:20 | 26-Jul 20:30 | 26-Jul 16:20 | 26-Jul 16:50 | 7.0 |
| 1 | 27-Jul 08:28 | 28-Jul 16:45 | 28-Jul 15:45 | 28-Jul 16:30 | 0.9 |
| 2 | 28-Jul 16:45 | 30-Jul 12:10 | 30-Jul 11:00 | 30-Jul 12:00 | 2.2 |
| 3 | 30-Jul 12:10 | 01-Aug 14:12 | 01-Aug 13:30 | continued | 1.6 |
| 4 | 01-Aug 14:12 | 01-Aug 16:30 | continued | 01-Aug 16:00 | 3.2 |
| 5 | 01-Aug 16:30 | 03-Aug 09:40 | n.m. | n.m. | 2.5 |
| 6 | 03-Aug 09:40 | 04-Aug 09:30 | 04-Aug 04:15 | continued | 6.8 |
| 7 | 04-Aug 09:30 | 04-Aug 13:40 | continued | continued | 5.6 |
| 8 | 04-Aug 13:40 | 04-Aug 18:05 | continued | 04-Aug 17:48 | 10.1 |
| 9 | 04-Aug 18:05 | 05-Aug 10:00 | 04-Aug 18:10 | 04-Aug 20:00 | 0.6 |
| 10 | 05-Aug 15:08 | 09-Aug 08:00 | n.m. | n.m. | 4.2 |

n.m.: not measured

Table A.10 Rainfall measured by AECL [19]

| No. | Time sampling started | Time sampling stopped | Rainfall (mm) |
|---|---|---|---|
| 1 | 28-Jul 12:00 | 28-Jul 16:00 | 0.8 |
| 2 | 30-Jul 11:10 | 30-Jul 11:40 | 1.7 |
| 3 | 01-Aug 13:40 | 01-Aug 13:50 | 1.2 |
| 4 | 01-Aug 14:15 | 01-Aug 15:30 | 3.0 |
| 5 | 02-Aug 00:00 | 02-Aug 04:00 | 0.3 |
| 6 | 02-Aug 04:00 | 02-Aug 08:00 | 4.0 |
| 7 | 04-Aug 04:00 | 04-Aug 08:00 | 4.2 |
| 8 | 04-Aug 08:00 | 04-Aug 12:00 | 3.5 |
| 9 | 04-Aug 12:00 | 04-Aug 16:00 | 12.0 |
| 10 | 04-Aug 16:00 | 04-Aug 20:00 | 0.5 |
| 11 | 08-Aug 22:00 | 09-Aug 08:00 | 3.7 |

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# APPENDIX B.

## Tables of Tritium Concentrations in Samples except Soil

Table B.1 Air HT concentrations at the edge of Plot 3

| No. | Time sampling started | Time sampling stopped | Elapsed time (h) | HT concentration (Bq/m$^3$) | | |
|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m |
| BG-1 | 26-Jul 15:00 | 26-Jul 17:00 | -20.0 | n.m. | 5.03E+01 | n.m. |
| 1 | 27-Jul 12:00 | 27-Jul 14:00 | 1.0 | 7.06E+04 | 6.56E+04 | 5.75E+04 |
| 2 | 27-Jul 14:00 | 27-Jul 16:00 | 3.0 | 5.36E+04 | 5.13E+04 | 4.38E+04 |
| 3 | 27-Jul 16:00 | 27-Jul 18:00 | 5.0 | 4.73E+04 | 4.52E+04 | 3.80E+04 |
| 4 | 27-Jul 18:00 | 27-Jul 20:00 | 7.0 | 4.10E+04 | 3.74E+04 | 3.67E+04 |
| 5 | 27-Jul 20:00 | 27-Jul 22:00 | 9.0 | n.m. | 1.14E+05 | 6.69E+04 |
| 6 | 27-Jul 22:00 | 28-Jul 00:00 | 11.0 | 1.93E+05 | 1.18E+05 | 9.43E+04 |
| 7 | 28-Jul 00:00 | 28-Jul 02:00 | 13.0 | 2.43E+05 | 1.59E+05 | 1.19E+05 |
| 8 | 28-Jul 02:00 | 28-Jul 04:00 | 15.0 | 2.55E+05 | 2.01E+05 | 9.24E+04 |
| 9 | 28-Jul 04:00 | 28-Jul 06:00 | 17.0 | 2.18E+05 | 2.01E+05 | 1.17E+05 |
| 10 | 28-Jul 06:00 | 28-Jul 08:00 | 19.0 | 1.14E+05 | 1.09E+05 | 1.03E+05 |
| 11 | 28-Jul 08:00 | 28-Jul 10:00 | 21.0 | 2.01E+05 | 1.81E+05 | 1.29E+05 |
| 12 | 28-Jul 10:00 | 28-Jul 12:00 | 23.0 | 2.68E+04 | 2.96E+04 | 2.59E+04 |
| 13 | 28-Jul 12:00 | 28-Jul 14:00 | 25.0 | n.m. | 5.90E+04 | n.m. |
| 14 | 28-Jul 14:00 | 28-Jul 16:00 | 27.0 | n.m. | 5.87E+04 | n.m. |
| 15 | 28-Jul 16:00 | 28-Jul 18:00 | 29.0 | n.m. | 1.52E+05 | n.m. |
| 16 | 28-Jul 18:00 | 28-Jul 20:00 | 31.0 | n.m. | 6.70E+04 | n.m. |
| 17 | 28-Jul 20:00 | 28-Jul 22:00 | 33.0 | n.m. | 3.08E+05 | n.m. |
| 18 | 28-Jul 22:00 | 29-Jul 00:00 | 35.0 | n.m. | 1.87E+05 | n.m. |
| 19 | 29-Jul 00:00 | 29-Jul 02:00 | 37.0 | n.m. | 1.83E+05 | n.m. |
| 20 | 29-Jul 02:00 | 29-Jul 04:00 | 39.0 | n.m. | 1.78E+05 | n.m. |
| 21 | 29-Jul 04:00 | 29-Jul 06:00 | 41.0 | n.m. | 1.83E+05 | n.m. |
| 22 | 29-Jul 06:00 | 29-Jul 08:00 | 43.0 | n.m. | 1.16E+05 | n.m. |
| 23 | 29-Jul 08:00 | 29-Jul 10:00 | 45.0 | n.m. | 5.40E+04 | n.m. |
| 24 | 29-Jul 10:00 | 29-Jul 12:00 | 47.0 | n.m. | 1.03E+05 | n.m. |
| 25 | 29-Jul 12:00 | 29-Jul 14:00 | 49.0 | n.m. | 1.45E+05 | n.m. |
| 26 | 29-Jul 14:00 | 29-Jul 16:00 | 51.0 | n.m. | 1.65E+05 | n.m. |
| 27 | 29-Jul 16:00 | 29-Jul 18:00 | 53.0 | n.m. | 2.16E+05 | n.m. |
| 28 | 29-Jul 18:00 | 29-Jul 22:00 | 56.0 | n.m. | 1.61E+05 | n.m. |
| 29 | 29-Jul 22:00 | 30-Jul 02:00 | 60.0 | n.m. | 1.45E+05 | n.m. |
| 30 | 30-Jul 02:00 | 30-Jul 06:00 | 64.0 | n.m. | 1.20E+05 | n.m. |
| 31 | 30-Jul 06:00 | 30-Jul 10:00 | 68.0 | n.m. | 3.90E+04 | n.m. |
| 32 | 30-Jul 10:00 | 30-Jul 14:00 | 72.0 | n.m. | 6.93E+04 | n.m. |
| 33 | 30-Jul 14:02 | 30-Jul 18:02 | 76.0 | n.m. | 8.70E+04 | n.m. |
| 34 | 30-Jul 18:02 | 30-Jul 22:02 | 80.0 | n.m. | 1.08E+05 | n.m. |
| 35 | 30-Jul 22:02 | 31-Jul 02:02 | 84.0 | n.m. | 2.09E+05 | n.m. |
| 36 | 31-Jul 02:02 | 31-Jul 06:02 | 88.0 | n.m. | 1.05E+05 | n.m. |
| 37 | 31-Jul 06:02 | 31-Jul 10:02 | 92.0 | n.m. | 1.28E+05 | n.m. |
| 38 | 31-Jul 10:02 | 31-Jul 14:02 | 96.0 | n.m. | 1.37E+05 | n.m. |
| 39 | 31-Jul 14:02 | 31-Jul 18:02 | 100.0 | n.m. | 9.65E+04 | n.m. |
| 40 | 31-Jul 18:02 | 31-Jul 22:02 | 104.0 | n.m. | 1.08E+05 | n.m. |
| 41 | 31-Jul 22:02 | 1-Aug 02:02 | 108.0 | n.m. | 1.44E+05 | n.m. |
| 42 | 1-Aug 02:02 | 1-Aug 06:02 | 112.0 | n.m. | 1.27E+05 | n.m. |
| 43 | 1-Aug 06:02 | 1-Aug 10:02 | 116.0 | n.m. | 1.89E+05 | n.m. |
| 44 | 1-Aug 10:02 | 1-Aug 14:02 | 120.0 | n.m. | 1.18E+05 | n.m. |
| 45 | 1-Aug 14:02 | 1-Aug 18:02 | 124.0 | n.m. | 8.95E+04 | n.m. |
| 46 | 1-Aug 18:02 | 2-Aug 02:02 | 130.0 | n.m. | 2.32E+05 | n.m. |
| 47 | 2-Aug 02:02 | 2-Aug 10:02 | 138.0 | n.m. | 2.77E+05 | n.m. |
| 48 | 2-Aug 10:02 | 2-Aug 18:02 | 146.0 | n.m. | 1.30E+05 | n.m. |
| 49 | 2-Aug 18:02 | 3-Aug 02:02 | 154.0 | n.m. | 1.46E+05 | n.m. |
| 50 | 3-Aug 02:02 | 3-Aug 10:02 | 162.0 | n.m. | 9.21E+04 | n.m. |
| 51 | 3-Aug 10:02 | 3-Aug 14:02 | 168.0 | n.m. | 1.00E+05 | n.m. |

n.m.: not measured

Table B.1 Air HT concentrations at the edge of Plot 3 (cont'd)

| No. | Time sampling started | Time sampling stopped | Elapsed time (h) | HT concentration (Bq/m$^3$) | | |
|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m |
| 52 | 3-Aug 14:02 | 3-Aug 18:02 | 172.0 | n.m. | 8.23E+04 | n.m. |
| 53 | 3-Aug 18:02 | 3-Aug 22:02 | 176.0 | n.m. | 1.16E+05 | n.m. |
| 54 | 3-Aug 22:02 | 4-Aug 02:02 | 180.0 | n.m. | 2.33E+05 | n.m. |
| 55 | 4-Aug 02:02 | 4-Aug 06:02 | 184.0 | n.m. | 1.75E+05 | n.m. |
| 56 | 4-Aug 06:02 | 4-Aug 10:02 | 188.0 | n.m. | 2.22E+05 | n.m. |
| 57 | 4-Aug 10:02 | 4-Aug 14:02 | 192.0 | n.m. | 2.22E+05 | n.m. |
| 58 | 4-Aug 14:02 | 4-Aug 18:02 | 196.0 | n.m. | 2.22E+05 | n.m. |
| 59 | 4-Aug 18:02 | 4-Aug 22:02 | 200.0 | n.m. | 2.89E+05 | n.m. |
| 60 | 4-Aug 22:02 | 5-Aug 02:02 | 204.0 | n.m. | 2.82E+05 | n.m. |
| 61 | 5-Aug 02:02 | 5-Aug 06:02 | 208.0 | n.m. | 2.81E+05 | n.m. |
| 62 | 5-Aug 06:02 | 5-Aug 10:02 | 212.0 | n.m. | 2.45E+05 | n.m. |
| 63 | 5-Aug 10:02 | 5-Aug 14:02 | 216.0 | n.m. | 2.18E+05 | n.m. |
| 64 | 5-Aug 14:02 | 5-Aug 18:02 | 220.0 | n.m. | 2.73E+05 | n.m. |
| 65 | 5-Aug 18:02 | 5-Aug 22:02 | 224.0 | n.m. | 1.96E+05 | n.m. |
| 66 | 5-Aug 22:02 | 6-Aug 02:02 | 228.0 | n.m. | 9.46E+04 | n.m. |
| 67 | 6-Aug 02:02 | 6-Aug 06:02 | 232.0 | n.m. | 8.98E+04 | n.m. |
| 68 | 6-Aug 06:02 | 6-Aug 10:02 | 236.0 | n.m. | 8.34E+04 | n.m. |
| 69 | 6-Aug 10:02 | 6-Aug 12:02 | 239.0 | 1.66E+05 | 1.37E+05 | 1.22E+05 |
| 70 | 6-Aug 12:02 | 6-Aug 14:02 | 241.0 | 1.77E+05 | 1.65E+05 | 1.29E+05 |
| 71 | 6-Aug 14:02 | 6-Aug 16:02 | 243.0 | 8.51E+04 | 8.51E+04 | 7.15E+04 |
| 72 | 6-Aug 16:02 | 6-Aug 18:02 | 245.0 | 1.22E+05 | 1.09E+05 | 9.12E+04 |
| 73 | 6-Aug 18:02 | 6-Aug 20:02 | 247.0 | 6.47E+04 | 4.82E+04 | 3.58E+04 |
| 74 | 6-Aug 20:02 | 6-Aug 22:02 | 249.0 | 1.56E+05 | 1.28E+05 | 4.82E+04 |
| 75 | 6-Aug 22:02 | 7-Aug 00:02 | 251.0 | 2.40E+05 | 1.39E+05 | 5.07E+04 |
| 76 | 7-Aug 00:02 | 7-Aug 02:02 | 253.0 | 1.24E+05 | 8.47E+04 | 3.02E+04 |
| 77 | 7-Aug 02:02 | 7-Aug 04:02 | 255.0 | 1.54E+05 | 9.38E+04 | 2.75E+04 |
| 78 | 7-Aug 04:02 | 7-Aug 06:02 | 257.0 | 9.06E+04 | 6.27E+04 | 2.41E+04 |
| 79 | 7-Aug 06:02 | 7-Aug 08:02 | 259.0 | 2.63E+04 | 2.52E+04 | 2.30E+04 |
| 80 | 7-Aug 08:02 | 7-Aug 10:02 | 261.0 | 1.08E+05 | 9.98E+04 | 8.07E+04 |
| 81 | 7-Aug 10:02 | 7-Aug 12:02 | 263.0 | n.m. | 1.71E+05 | n.m. |
| 82 | 7-Aug 12:02 | 7-Aug 14:02 | 265.0 | n.m. | 1.28E+05 | n.m. |
| 83 | 7-Aug 14:02 | 7-Aug 16:02 | 267.0 | n.m. | 9.19E+04 | n.m. |
| 84 | 7-Aug 16:02 | 7-Aug 18:02 | 269.0 | n.m. | 1.03E+05 | n.m. |
| 85 | 7-Aug 18:02 | 7-Aug 22:02 | 272.0 | n.m. | 1.98E+05 | n.m. |
| 86 | 7-Aug 22:02 | 8-Aug 02:02 | 276.0 | n.m. | 2.19E+05 | n.m. |
| 87 | 8-Aug 02:02 | 8-Aug 06:02 | 280.0 | n.m. | 1.22E+05 | n.m. |
| 88 | 8-Aug 06:02 | 8-Aug 10:02 | 284.0 | n.m. | 1.42E+05 | n.m. |
| 89 | 8-Aug 10:02 | 8-Aug 12:02 | 287.0 | n.m. | 2.14E+05 | n.m. |
| 90 | 8-Aug 12:02 | 8-Aug 14:02 | 289.0 | n.m. | 1.78E+05 | n.m. |
| 91 | 8-Aug 14:02 | 8-Aug 16:02 | 291.0 | n.m. | 9.75E+04 | n.m. |
| 92 | 8-Aug 16:02 | 8-Aug 18:02 | 293.0 | n.m. | 3.43E+03 | n.m. |
| 93 | 8-Aug 18:02 | 8-Aug 20:02 | 295.0 | n.m. | 4.13E+01 | n.m. |
| 94 | 8-Aug 20:02 | 8-Aug 22:02 | 297.0 | n.m. | 2.20E+02 | n.m. |
| 95 | 8-Aug 22:02 | 9-Aug 00:02 | 299.0 | n.m. | n.m. | n.m. |
| 96 | 9-Aug 00:02 | 9-Aug 02:02 | 301.0 | n.m. | n.m. | n.m. |
| 97 | 9-Aug 02:02 | 9-Aug 04:02 | 303.0 | n.m. | n.m. | n.m. |
| 98 | 9-Aug 04:02 | 9-Aug 06:02 | 305.0 | n.m. | n.m. | n.m. |
| 99 | 9-Aug 06:02 | 9-Aug 08:02 | 307.0 | n.m. | n.m. | n.m. |
| 100 | 9-Aug 08:02 | 9-Aug 10:02 | 309.0 | n.m. | 7.68E+01 | n.m. |
| 101 | 9-Aug 10:02 | 9-Aug 12:02 | 311.0 | n.m. | n.m. | n.m. |
| 102 | 9-Aug 12:02 | 9-Aug 14:02 | 313.0 | n.m. | n.m. | n.m. |
| 103 | 9-Aug 14:02 | 9-Aug 16:02 | 315.0 | n.m. | n.m. | n.m. |

n.m.: not measured

Table B.2 Air HTO concentrations at the edge of Plot 3

| No. | Time sampling started | Time sampling stopped | Elapsed time (h) | HTO concentration (Bq/m$^3$) | | | | | HTO specific activity (Bq/ml) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| BG-1 | 26-Jul 15:00 | 26-Jul 17:00 | -20.0 | 3.97E-01 | 1.23E+01 | 1.74E-01 | n.m. | n.m. | 2.65E-02 | 8.59E-01 | 1.33E-02 | n.m. | n.m. |
| 1 | 27-Jul 12:00 | 27-Jul 14:00 | 1.0 | 6.73E+00 | 4.62E+00 | 5.86E+00 | n.m. | n.m. | 5.48E-01 | 3.76E-01 | 5.25E-01 | n.m. | n.m. |
| 2 | 27-Jul 14:00 | 27-Jul 16:00 | 3.0 | 2.51E+01 | 1.99E+01 | 1.82E+01 | n.m. | n.m. | 1.77E+00 | 1.56E+00 | 1.64E+00 | n.m. | n.m. |
| 3 | 27-Jul 16:00 | 27-Jul 18:00 | 5.0 | 5.56E+01 | 4.99E+01 | 3.81E+01 | n.m. | n.m. | 3.94E+00 | 3.95E+00 | 3.45E+00 | n.m. | n.m. |
| 4 | 27-Jul 18:00 | 27-Jul 20:00 | 7.0 | 6.32E+01 | 6.05E+01 | 4.11E+01 | n.m. | n.m. | 4.11E+00 | 4.33E+00 | 3.19E+00 | n.m. | n.m. |
| 5 | 27-Jul 20:00 | 27-Jul 22:00 | 9.0 | 2.56E+02 | 1.63E+02 | 7.73E+01 | n.m. | n.m. | 1.82E+01 | 1.32E+01 | 6.26E+00 | n.m. | n.m. |
| 6 | 27-Jul 22:00 | 28-Jul 00:00 | 11.0 | 1.99E+02 | 1.72E+02 | 8.95E+01 | n.m. | n.m. | 2.68E+01 | 1.77E+01 | 9.26E+00 | n.m. | n.m. |
| 7 | 28-Jul 00:00 | 28-Jul 02:00 | 13.0 | 2.44E+02 | 2.01E+02 | 1.19E+02 | n.m. | n.m. | 2.49E+01 | 2.22E+01 | 1.31E+01 | n.m. | n.m. |
| 8 | 28-Jul 02:00 | 28-Jul 04:00 | 15.0 | 2.43E+02 | 1.64E+02 | 8.90E+01 | n.m. | n.m. | 2.92E+01 | 2.11E+01 | 1.20E+01 | n.m. | n.m. |
| 9 | 28-Jul 04:00 | 28-Jul 06:00 | 17.0 | 3.17E+02 | 2.11E+02 | 9.21E+01 | n.m. | n.m. | 3.31E+01 | 2.48E+01 | 1.03E+01 | n.m. | n.m. |
| 10 | 28-Jul 06:00 | 28-Jul 08:00 | 19.0 | 2.48E+02 | 2.15E+02 | 9.81E+01 | n.m. | n.m. | 2.01E+01 | 1.79E+01 | 8.41E+00 | n.m. | n.m. |
| 11 | 28-Jul 08:00 | 28-Jul 10:00 | 21.0 | 2.20E+02 | 1.85E+02 | 9.99E+01 | n.m. | n.m. | 1.57E+01 | 1.39E+01 | 8.03E+00 | n.m. | n.m. |
| 12 | 28-Jul 10:00 | 28-Jul 12:00 | 23.0 | 3.15E+02 | 3.23E+02 | 1.94E+02 | n.m. | n.m. | 2.01E+01 | 2.09E+01 | 1.16E+01 | n.m. | n.m. |
| 13 | 28-Jul 12:00 | 28-Jul 14:00 | 25.0 | n.m. | 4.25E+02 | 2.97E+02 | n.m. | n.m. | n.m. | 3.19E+01 | 2.43E+01 | n.m. | n.m. |
| 14 | 28-Jul 14:00 | 28-Jul 16:00 | 27.0 | n.m. | 4.60E+02 | 3.22E+02 | n.m. | n.m. | n.m. | 3.51E+01 | 2.64E+01 | n.m. | n.m. |
| 15 | 28-Jul 16:00 | 28-Jul 18:00 | 29.0 | n.m. | 2.10E+02 | 1.31E+02 | n.m. | n.m. | n.m. | 1.26E+01 | 8.50E+00 | n.m. | n.m. |
| 16 | 28-Jul 18:00 | 28-Jul 20:00 | 31.0 | n.m. | 2.26E+02 | 1.44E+02 | n.m. | n.m. | n.m. | 1.34E+01 | 9.18E+00 | n.m. | n.m. |
| 17 | 28-Jul 20:00 | 28-Jul 22:00 | 33.0 | n.m. | 3.93E+02 | 1.14E+02 | n.m. | n.m. | n.m. | 3.23E+01 | 9.59E+00 | n.m. | n.m. |
| 18 | 28-Jul 22:00 | 29-Jul 00:00 | 35.0 | n.m. | 4.19E+02 | 2.05E+02 | n.m. | n.m. | n.m. | 5.30E+01 | 2.23E+01 | n.m. | n.m. |
| 19 | 29-Jul 00:00 | 29-Jul 02:00 | 37.0 | n.m. | 3.86E+02 | 1.51E+02 | n.m. | n.m. | n.m. | 4.67E+01 | 1.80E+01 | n.m. | n.m. |
| 20 | 29-Jul 02:00 | 29-Jul 04:00 | 39.0 | n.m. | 3.87E+02 | 1.45E+02 | n.m. | n.m. | n.m. | 5.42E+01 | 2.03E+01 | n.m. | n.m. |
| 21 | 29-Jul 04:00 | 29-Jul 06:00 | 41.0 | n.m. | 3.64E+02 | 1.42E+02 | n.m. | n.m. | n.m. | 5.58E+01 | 2.18E+01 | n.m. | n.m. |
| 22 | 29-Jul 06:00 | 29-Jul 08:00 | 43.0 | n.m. | 5.48E+02 | 1.77E+02 | n.m. | n.m. | n.m. | 6.34E+01 | 2.03E+01 | n.m. | n.m. |
| 23 | 29-Jul 08:00 | 29-Jul 10:00 | 45.0 | n.m. | 8.55E+02 | 4.01E+02 | n.m. | n.m. | n.m. | 5.51E+01 | 2.55E+01 | n.m. | n.m. |
| 24 | 29-Jul 10:00 | 29-Jul 12:00 | 47.0 | n.m. | 1.08E+03 | 6.67E+02 | n.m. | n.m. | n.m. | 5.12E+01 | 3.04E+01 | n.m. | n.m. |
| 25 | 29-Jul 12:00 | 29-Jul 14:00 | 49.0 | n.m. | 1.07E+03 | 7.31E+02 | n.m. | n.m. | n.m. | 6.58E+01 | 4.26E+01 | n.m. | n.m. |
| 26 | 29-Jul 14:00 | 29-Jul 16:00 | 51.0 | n.m. | 9.46E+02 | 5.72E+02 | n.m. | n.m. | n.m. | 6.54E+01 | 4.30E+01 | n.m. | n.m. |
| 27 | 29-Jul 16:00 | 29-Jul 18:00 | 53.0 | n.m. | 1.09E+03 | 6.02E+02 | n.m. | n.m. | n.m. | 7.27E+01 | 4.30E+01 | n.m. | n.m. |
| 28 | 29-Jul 18:00 | 29-Jul 22:00 | 56.0 | n.m. | 1.23E+03 | n.m. | n.m. | n.m. | n.m. | 6.89E+01 | n.m. | n.m. | n.m. |
| 29 | 29-Jul 22:00 | 30-Jul 02:00 | 60.0 | n.m. | 1.38E+04 | n.m. | n.m. | n.m. | n.m. | 1.14E+03 | n.m. | n.m. | n.m. |

n.m.: not measured

Table B.2 Air HTO concentrations at the edge of Plot 3 (cont'd)

| No. | Time sampling started | Time sampling stopped | Elapsed time (h) | HTO concentration (Bq/m$^3$) | | | | | HTO specific activity (Bq/ml) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 30 | 30-Jul 02:00 | 30-Jul 06:00 | 64.0 | n.m. | 6.71E+03 | n.m. | n.m. | n.m. | n.m. | 7.37E+02 | n.m. | n.m. | n.m. |
| 31 | 30-Jul 06:00 | 30-Jul 10:00 | 68.0 | n.m. | 4.44E+03 | n.m. | n.m. | n.m. | n.m. | 3.02E+02 | n.m. | n.m. | n.m. |
| 32 | 30-Jul 10:00 | 30-Jul 14:00 | 72.0 | n.m. | 1.44E+03 | n.m. | n.m. | n.m. | n.m. | 7.69E+01 | n.m. | n.m. | n.m. |
| 33 | 30-Jul 14:02 | 30-Jul 18:02 | 76.0 | n.m. | 9.86E+02 | n.m. | n.m. | n.m. | n.m. | 4.93E+01 | n.m. | n.m. | n.m. |
| 34 | 30-Jul 18:02 | 30-Jul 22:02 | 80.0 | n.m. | 1.18E+03 | n.m. | n.m. | n.m. | n.m. | 7.57E+01 | n.m. | n.m. | n.m. |
| 35 | 30-Jul 22:02 | 31-Jul 02:02 | 84.0 | n.m. | 1.54E+03 | n.m. | n.m. | n.m. | n.m. | 1.55E+02 | n.m. | n.m. | n.m. |
| 36 | 31-Jul 02:02 | 31-Jul 06:02 | 88.0 | n.m. | 1.39E+03 | n.m. | n.m. | n.m. | n.m. | 1.37E+02 | n.m. | n.m. | n.m. |
| 37 | 31-Jul 06:02 | 31-Jul 10:02 | 92.0 | n.m. | 1.32E+03 | n.m. | n.m. | n.m. | n.m. | 9.64E+01 | n.m. | n.m. | n.m. |
| 38 | 31-Jul 10:02 | 31-Jul 14:02 | 96.0 | n.m. | 1.68E+03 | n.m. | n.m. | n.m. | n.m. | 9.69E+01 | n.m. | n.m. | n.m. |
| 39 | 31-Jul 14:02 | 31-Jul 18:02 | 100.0 | n.m. | 1.56E+03 | n.m. | n.m. | n.m. | n.m. | 9.18E+01 | n.m. | n.m. | n.m. |
| 40 | 31-Jul 18:02 | 31-Jul 22:02 | 104.0 | n.m. | 1.68E+03 | n.m. | n.m. | n.m. | n.m. | 1.01E+02 | n.m. | n.m. | n.m. |
| 41 | 31-Jul 22:02 | 1-Aug 02:02 | 108.0 | n.m. | 1.37E+03 | n.m. | n.m. | n.m. | n.m. | 1.25E+02 | n.m. | n.m. | n.m. |
| 42 | 1-Aug 02:02 | 1-Aug 06:02 | 112.0 | n.m. | 1.67E+03 | n.m. | n.m. | n.m. | n.m. | 1.56E+02 | n.m. | n.m. | n.m. |
| 43 | 1-Aug 06:02 | 1-Aug 10:02 | 116.0 | n.m. | 2.60E+03 | n.m. | n.m. | n.m. | n.m. | 1.45E+02 | n.m. | n.m. | n.m. |
| 44 | 1-Aug 10:02 | 1-Aug 14:02 | 120.0 | n.m. | 2.24E+03 | n.m. | n.m. | n.m. | n.m. | 1.06E+02 | n.m. | n.m. | n.m. |
| 45 | 1-Aug 14:02 | 1-Aug 18:02 | 124.0 | n.m. | 7.60E+02 | n.m. | n.m. | n.m. | n.m. | 3.77E+01 | n.m. | n.m. | n.m. |
| 46 | 1-Aug 18:02 | 2-Aug 02:02 | 130.0 | n.m. | 1.24E+03 | n.m. | n.m. | n.m. | n.m. | 6.10E+01 | n.m. | n.m. | n.m. |
| 47 | 2-Aug 02:02 | 2-Aug 10:02 | 138.0 | n.m. | 1.23E+03 | n.m. | n.m. | n.m. | n.m. | 7.95E+01 | n.m. | n.m. | n.m. |
| 48 | 2-Aug 10:02 | 2-Aug 18:02 | 146.0 | n.m. | 1.84E+03 | n.m. | n.m. | n.m. | n.m. | 1.55E+02 | n.m. | n.m. | n.m. |
| 49 | 2-Aug 18:02 | 3-Aug 02:02 | 154.0 | n.m. | 1.88E+03 | n.m. | n.m. | n.m. | n.m. | 1.32E+02 | n.m. | n.m. | n.m. |
| 50 | 3-Aug 02:02 | 3-Aug 10:02 | 162.0 | n.m. | 1.44E+03 | n.m. | n.m. | n.m. | n.m. | 1.26E+02 | n.m. | n.m. | n.m. |
| 51 | 3-Aug 10:02 | 3-Aug 14:02 | 168.0 | n.m. | 2.57E+03 | n.m. | n.m. | n.m. | n.m. | 1.34E+02 | n.m. | n.m. | n.m. |
| 52 | 3-Aug 14:02 | 3-Aug 18:02 | 172.0 | n.m. | 2.20E+03 | n.m. | n.m. | n.m. | n.m. | 1.39E+02 | n.m. | n.m. | n.m. |
| 53 | 3-Aug 18:02 | 3-Aug 22:02 | 176.0 | n.m. | 1.94E+03 | n.m. | n.m. | n.m. | n.m. | 1.37E+02 | n.m. | n.m. | n.m. |
| 54 | 3-Aug 22:02 | 4-Aug 02:02 | 180.0 | n.m. | 3.09E+03 | n.m. | n.m. | n.m. | n.m. | 2.57E+02 | n.m. | n.m. | n.m. |
| 55 | 4-Aug 02:02 | 4-Aug 06:02 | 184.0 | n.m. | 1.78E+03 | n.m. | n.m. | n.m. | n.m. | 1.13E+02 | n.m. | n.m. | n.m. |
| 56 | 4-Aug 06:02 | 4-Aug 10:02 | 188.0 | n.m. | 1.06E+03 | n.m. | n.m. | n.m. | n.m. | 6.00E+01 | n.m. | n.m. | n.m. |
| 57 | 4-Aug 10:02 | 4-Aug 14:02 | 192.0 | n.m. | 1.04E+03 | n.m. | n.m. | n.m. | n.m. | 1.20E+02 | n.m. | n.m. | n.m. |
| 58 | 4-Aug 14:02 | 4-Aug 18:02 | 196.0 | n.m. | 1.03E+03 | n.m. | n.m. | n.m. | n.m. | 5.49E+01 | n.m. | n.m. | n.m. |
| 59 | 4-Aug 18:02 | 4-Aug 22:02 | 200.0 | n.m. | 1.66E+03 | n.m. | n.m. | n.m. | n.m. | 1.37E+02 | n.m. | n.m. | n.m. |

n.m.: not measured

Table B.2 Air HTO concentrations at the edge of Plot 3 (cont'd)

| No. | Time sampling started | Time sampling stopped | Elapsed time (h) | HTO concentration (Bq/m$^3$) | | | | | HTO specific activity (Bq/ml) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 60 | 4-Aug 22:02 | 5-Aug 02:02 | 204.0 | n.m. | 1.88E+03 | n.m. | n.m. | n.m. | n.m. | 1.87E+02 | n.m. | n.m. | n.m. |
| 61 | 5-Aug 02:02 | 5-Aug 06:02 | 208.0 | n.m. | 1.65E+03 | n.m. | n.m. | n.m. | n.m. | 1.97E+02 | n.m. | n.m. | n.m. |
| 62 | 5-Aug 06:02 | 5-Aug 10:02 | 212.0 | n.m. | 1.91E+03 | n.m. | n.m. | n.m. | n.m. | 2.06E+02 | n.m. | n.m. | n.m. |
| 63 | 5-Aug 10:02 | 5-Aug 14:02 | 216.0 | n.m. | 3.03E+03 | n.m. | n.m. | n.m. | n.m. | 3.32E+02 | n.m. | n.m. | n.m. |
| 64 | 5-Aug 14:02 | 5-Aug 18:02 | 220.0 | n.m. | 3.48E+03 | n.m. | n.m. | n.m. | n.m. | 3.77E+02 | n.m. | n.m. | n.m. |
| 65 | 5-Aug 18:02 | 5-Aug 22:02 | 224.0 | n.m. | 2.63E+03 | n.m. | n.m. | n.m. | n.m. | 3.09E+02 | n.m. | n.m. | n.m. |
| 66 | 5-Aug 22:02 | 6-Aug 02:02 | 228.0 | n.m. | 7.53E+02 | n.m. | n.m. | n.m. | n.m. | 2.71E+02 | n.m. | n.m. | n.m. |
| 67 | 6-Aug 02:02 | 6-Aug 06:02 | 232.0 | n.m. | 1.16E+03 | n.m. | n.m. | n.m. | n.m. | 2.05E+02 | n.m. | n.m. | n.m. |
| 68 | 6-Aug 06:02 | 6-Aug 10:02 | 236.0 | n.m. | 1.96E+03 | n.m. | n.m. | n.m. | n.m. | 1.82E+02 | n.m. | n.m. | n.m. |
| 69 | 6-Aug 10:02 | 6-Aug 12:02 | 239.0 | 3.20E+03 | 3.10E+03 | 2.13E+03 | n.m. | n.m. | 2.22E+02 | 2.02E+02 | 1.79E+02 | n.m. | n.m. |
| 70 | 6-Aug 12:02 | 6-Aug 14:02 | 241.0 | 3.55E+03 | 3.25E+03 | 2.35E+03 | n.m. | n.m. | 2.36E+02 | 2.43E+02 | 2.10E+02 | n.m. | n.m. |
| 71 | 6-Aug 14:02 | 6-Aug 16:02 | 243.0 | 3.26E+03 | 2.36E+03 | 1.79E+03 | n.m. | n.m. | 2.24E+02 | 2.02E+02 | 1.83E+02 | n.m. | n.m. |
| 72 | 6-Aug 16:02 | 6-Aug 18:02 | 245.0 | 2.68E+03 | 2.31E+03 | 1.71E+03 | n.m. | n.m. | 1.91E+02 | 1.78E+02 | 1.56E+02 | n.m. | n.m. |
| 73 | 6-Aug 18:02 | 6-Aug 20:02 | 247.0 | 2.08E+03 | 1.97E+03 | 1.32E+03 | n.m. | n.m. | 1.75E+02 | 1.42E+02 | 1.04E+02 | n.m. | n.m. |
| 74 | 6-Aug 20:02 | 6-Aug 22:02 | 249.0 | 3.92E+03 | 2.24E+03 | 7.38E+02 | n.m. | n.m. | 4.18E+02 | 2.35E+02 | 8.49E+01 | n.m. | n.m. |
| 75 | 6-Aug 22:02 | 7-Aug 00:02 | 251.0 | 3.87E+03 | 2.18E+03 | 6.25E+02 | n.m. | n.m. | 4.59E+02 | 2.50E+02 | 7.63E+01 | n.m. | n.m. |
| 76 | 7-Aug 00:02 | 7-Aug 02:02 | 253.0 | 3.02E+03 | 1.37E+03 | 4.21E+02 | n.m. | n.m. | 4.02E+02 | 2.33E+02 | 6.19E+01 | n.m. | n.m. |
| 77 | 7-Aug 02:02 | 7-Aug 04:02 | 255.0 | 2.73E+03 | 1.34E+03 | 3.15E+02 | n.m. | n.m. | 3.90E+02 | 1.94E+02 | 4.98E+01 | n.m. | n.m. |
| 78 | 7-Aug 04:02 | 7-Aug 06:02 | 257.0 | 2.71E+03 | 1.32E+03 | 3.16E+02 | n.m. | n.m. | 3.76E+02 | 1.93E+02 | 4.91E+01 | n.m. | n.m. |
| 79 | 7-Aug 06:02 | 7-Aug 08:02 | 259.0 | 3.27E+03 | 1.74E+03 | 4.94E+02 | n.m. | n.m. | 3.14E+02 | 1.82E+02 | 5.27E+01 | n.m. | n.m. |
| 80 | 7-Aug 08:02 | 7-Aug 10:02 | 261.0 | 2.32E+03 | 1.67E+03 | 8.75E+02 | n.m. | n.m. | 1.54E+02 | 1.14E+02 | 6.53E+01 | n.m. | n.m. |
| 81 | 7-Aug 10:02 | 7-Aug 12:02 | 263.0 | n.m. | 4.07E+03 | 2.80E+03 | n.m. | n.m. | n.m. | 2.00E+02 | 1.44E+02 | n.m. | n.m. |
| 82 | 7-Aug 12:02 | 7-Aug 14:02 | 265.0 | n.m. | 3.22E+03 | 1.99E+03 | n.m. | n.m. | n.m. | 2.33E+02 | 1.55E+02 | n.m. | n.m. |
| 83 | 7-Aug 14:02 | 7-Aug 16:02 | 267.0 | n.m. | 2.47E+03 | 1.81E+03 | n.m. | n.m. | n.m. | 2.79E+02 | 1.71E+02 | n.m. | n.m. |
| 84 | 7-Aug 16:02 | 7-Aug 18:02 | 269.0 | n.m. | 2.68E+03 | 1.85E+03 | n.m. | n.m. | n.m. | 2.11E+02 | 1.69E+02 | n.m. | n.m. |
| 85 | 7-Aug 18:02 | 7-Aug 22:02 | 272.0 | n.m. | 2.85E+03 | 1.82E+03 | n.m. | n.m. | n.m. | 2.78E+02 | 1.65E+02 | n.m. | n.m. |
| 86 | 7-Aug 22:02 | 8-Aug 02:02 | 276.0 | n.m. | 2.15E+03 | 6.99E+02 | n.m. | n.m. | n.m. | 3.52E+02 | 9.87E+01 | n.m. | n.m. |
| 87 | 8-Aug 02:02 | 8-Aug 06:02 | 280.0 | n.m. | 2.08E+03 | 5.80E+02 | n.m. | n.m. | n.m. | 2.73E+02 | 8.47E+01 | n.m. | n.m. |
| 88 | 8-Aug 06:02 | 8-Aug 10:02 | 284.0 | n.m. | 2.91E+03 | 1.17E+03 | n.m. | n.m. | n.m. | 1.94E+02 | 8.89E+01 | n.m. | n.m. |
| 89 | 8-Aug 10:02 | 8-Aug 12:02 | 287.0 | 4.76E+03 | 5.23E+03 | 3.73E+03 | 2.84E+03 | 1.89E+03 | 2.48E+02 | 2.76E+02 | 2.01E+02 | 2.37E+02 | 1.59E+02 |

n.m.: not measured

Table B.2 Air HTO concentrations at the edge of Plot 3 (cont'd)

| No. | Time sampling started | Time sampling stopped | Elapsed time (h) | HTO concentration (Bq/m$^3$) | | | | | HTO specific activity (Bq/ml) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m | 0.1 m | 0.5 m | 1.0 m | 1.5 m | 2.5 m |
| 90 | 8-Aug 12:02 | 8-Aug 14:02 | 289.0 | 5.37E+03 | 4.26E+03 | 2.58E+03 | 2.38E+03 | 1.99E+03 | 3.08E+02 | 2.81E+02 | 2.26E+02 | 2.06E+02 | 1.65E+02 |
| 91 | 8-Aug 14:02 | 8-Aug 16:02 | 291.0 | 3.76E+03 | 3.01E+03 | 2.23E+03 | 1.74E+03 | 1.28E+03 | 2.40E+02 | 2.10E+02 | 1.80E+02 | 1.57E+02 | 1.20E+02 |
| 92 | 8-Aug 16:02 | 8-Aug 18:02 | 293.0 | 2.60E+03 | 2.03E+03 | 1.34E+03 | 1.02E+03 | 7.87E+02 | 2.09E+02 | 1.46E+02 | 1.10E+02 | 9.08E+01 | 7.13E+01 |
| 93 | 8-Aug 18:02 | 8-Aug 20:02 | 295.0 | 1.66E+03 | 2.02E+03 | 1.27E+03 | 8.67E+02 | 4.87E+02 | 1.62E+02 | 1.14E+02 | 8.05E+01 | 5.73E+01 | 3.45E+01 |
| 94 | 8-Aug 20:02 | 8-Aug 22:02 | 297.0 | 2.98E+03 | 2.00E+03 | 9.59E+02 | n.m. | n.m. | 1.75E+02 | 1.22E+02 | 6.20E+01 | n.m. | n.m. |
| 95 | 8-Aug 22:02 | 9-Aug 00:02 | 299.0 | 1.38E+03 | 9.09E+02 | 5.04E+02 | n.m. | n.m. | 8.34E+01 | 5.63E+01 | 3.32E+01 | n.m. | n.m. |
| 96 | 9-Aug 00:02 | 9-Aug 02:02 | 301.0 | 8.82E+02 | 5.93E+02 | 3.86E+02 | n.m. | n.m. | 5.46E+01 | 4.68E+01 | 2.53E+01 | n.m. | n.m. |
| 97 | 9-Aug 02:02 | 9-Aug 04:02 | 303.0 | 7.63E+02 | 4.55E+02 | 2.77E+02 | n.m. | n.m. | 4.78E+01 | 2.86E+01 | 1.83E+01 | n.m. | n.m. |
| 98 | 9-Aug 04:02 | 9-Aug 06:02 | 305.0 | 7.77E+02 | 5.32E+02 | 2.82E+02 | n.m. | n.m. | 5.10E+01 | 3.55E+01 | 1.95E+01 | n.m. | n.m. |
| 99 | 9-Aug 06:02 | 9-Aug 08:02 | 307.0 | 1.00E+03 | 6.99E+02 | 3.57E+02 | n.m. | n.m. | 6.36E+01 | 4.54E+01 | 2.39E+01 | n.m. | n.m. |
| 100 | 9-Aug 08:02 | 9-Aug 10:02 | 309.0 | 5.34E+02 | 4.34E+02 | 2.73E+02 | 4.93E+02 | 4.56E+02 | 3.33E+01 | 2.64E+01 | 1.76E+01 | 3.78E+01 | 3.53E+01 |
| 101 | 9-Aug 10:02 | 9-Aug 12:02 | 311.0 | 6.49E+02 | 4.50E+02 | 2.73E+02 | 2.66E+02 | 1.95E+02 | 4.55E+01 | 3.32E+01 | 2.21E+01 | 2.47E+01 | 1.59E+01 |
| 102 | 9-Aug 12:02 | 9-Aug 14:02 | 313.0 | 6.70E+02 | 5.68E+02 | 3.06E+02 | 2.45E+02 | 1.65E+02 | 5.62E+01 | 4.71E+01 | 2.76E+01 | 2.45E+01 | 1.65E+01 |
| 103 | 9-Aug 14:02 | 9-Aug 16:02 | 315.0 | 8.43E+02 | 7.07E+02 | 3.78E+02 | 2.95E+02 | 1.71E+02 | 7.17E+01 | 5.99E+01 | 3.60E+01 | 2.99E+01 | 1.76E+01 |

n.m.: not measured

Table B.3 Air HTO specific activities at the center of Plot 3

| No. | Time sampling started | Time sampling stopped | Elapsed time (h) | HTO specific activity (Bq/ml) | | |
|---|---|---|---|---|---|---|
| | | | | 0.1 m | 0.5 m | 1.0 m |
| BG-1 | 26-Jul 19:10 | 26-Jul 20:10 | -16.3 | 5.90E-01 | 1.90E-01 | 7.50E-01 |
| 1 | 28-Jul 14:25 | 28-Jul 15:30 | 27.0 | 4.61E+01 | 3.35E+01 | 2.94E+01 |
| 2 | 29-Jul 09:10 | 29-Jul 10:12 | 45.7 | 7.29E+01 | 4.16E+01 | 2.78E+01 |
| 3 | 29-Jul 13:00 | 29-Jul 14:15 | 49.6 | 7.62E+01 | 6.72E+01 | 4.20E+01 |
| 4 | 29-Jul 17:05 | 27-Jul 18:08 | 29.6 | 9.51E+01 | 6.61E+01 | 4.76E+01 |
| 5 | 30-Jul 13:30 | 30-Jul 14:30 | 74.0 | 7.17E+01 | 3.48E+01 | 2.09E+01 |
| 6 | 1-Aug 14:00 | 1-Aug 15:30 | 122.8 | 5.83E+01 | 3.45E+01 | 2.49E+01 |
| 7 | 3-Aug 13:03 | 3-Aug 14:00 | 169.5 | 1.82E+02 | 1.61E+02 | 1.07E+02 |
| 8 | 5-Aug 13:00 | 5-Aug 14:00 | 217.5 | 2.13E+02 | 2.32E+02 | 2.25E+02 |
| 9 | 6-Aug 13:04 | 6-Aug 14:04 | 241.6 | 2.35E+02 | 2.24E+02 | 1.94E+02 |
| 10 | 7-Aug 14:00 | 7-Aug 15:00 | 266.5 | 2.46E+02 | 2.18E+02 | 1.71E+02 |
| 11 | 8-Aug 14:00 | 8-Aug 15:00 | 290.5 | 3.47E+02 | 3.26E+02 | 2.57E+02 |
| 12 | 9-Aug 14:25 | 9-Aug 15:25 | 314.9 | 8.39E+01 | 5.32E+01 | 4.06E+01 |

Table B.4 Air HT and HTO concentrations at 0.5 m height at 50 m distance from the HT release pipe

| No. | Time sampling started | Time sampling stopped | Elapsed time (h) | HT concentration ($Bq/m^3$) | HTO | |
|---|---|---|---|---|---|---|
| | | | | | concentration ($Bq/m^3$) | specific activity (Bq/ml) |
| 1 | 27-Jul 15:50 | 27-Jul 20:00 | 5.9 | 1.06E+03 | 8.53E+01 | 6.72E+00 |
| 2 | 30-Jul 10:58 | 30-Jul 18:59 | 75.0 | 1.53E+03 | 2.22E+01 | 1.52E+00 |

Table B.5 Ratio of HTO to HT concentrations in air at the edge of Plot 3

| No. | Time sampling started | Time sampling stopped | Elapsed time (h) | Ratio ( - ) |
|---|---|---|---|---|
| BG-1 | 26-Jul 15:00 | 26-Jul 17:00 | -20.0 | 2.44E-01 |
| 1 | 27-Jul 12:00 | 27-Jul 14:00 | 1.0 | 7.04E-05 |
| 2 | 27-Jul 14:00 | 27-Jul 16:00 | 3.0 | 3.89E-04 |
| 3 | 27-Jul 16:00 | 27-Jul 18:00 | 5.0 | 1.10E-03 |
| 4 | 27-Jul 18:00 | 27-Jul 20:00 | 7.0 | 1.62E-03 |
| 5 | 27-Jul 20:00 | 27-Jul 22:00 | 9.0 | 1.43E-03 |
| 6 | 27-Jul 22:00 | 28-Jul 00:00 | 11.0 | 1.45E-03 |
| 7 | 28-Jul 00:00 | 28-Jul 02:00 | 13.0 | 1.26E-03 |
| 8 | 28-Jul 02:00 | 28-Jul 04:00 | 15.0 | 8.17E-04 |
| 9 | 28-Jul 04:00 | 28-Jul 06:00 | 17.0 | 1.05E-03 |
| 10 | 28-Jul 06:00 | 28-Jul 08:00 | 19.0 | 1.97E-03 |
| 11 | 28-Jul 08:00 | 28-Jul 10:00 | 21.0 | 1.02E-03 |
| 12 | 28-Jul 10:00 | 28-Jul 12:00 | 23.0 | 1.09E-02 |
| 13 | 28-Jul 12:00 | 28-Jul 14:00 | 25.0 | 7.19E-03 |
| 14 | 28-Jul 14:00 | 28-Jul 16:00 | 27.0 | 7.83E-03 |
| 15 | 28-Jul 16:00 | 28-Jul 18:00 | 29.0 | 1.38E-03 |
| 16 | 28-Jul 18:00 | 28-Jul 20:00 | 31.0 | 3.36E-03 |
| 17 | 28-Jul 20:00 | 28-Jul 22:00 | 33.0 | 1.28E-03 |
| 18 | 28-Jul 22:00 | 29-Jul 00:00 | 35.0 | 2.24E-03 |
| 19 | 29-Jul 00:00 | 29-Jul 02:00 | 37.0 | 2.11E-03 |
| 20 | 29-Jul 02:00 | 29-Jul 04:00 | 39.0 | 2.17E-03 |
| 21 | 29-Jul 04:00 | 29-Jul 06:00 | 41.0 | 1.99E-03 |
| 22 | 29-Jul 06:00 | 29-Jul 08:00 | 43.0 | 4.72E-03 |
| 23 | 29-Jul 08:00 | 29-Jul 10:00 | 45.0 | 1.58E-02 |
| 24 | 29-Jul 10:00 | 29-Jul 12:00 | 47.0 | 1.05E-02 |
| 25 | 29-Jul 12:00 | 29-Jul 14:00 | 49.0 | 7.42E-03 |
| 26 | 29-Jul 14:00 | 29-Jul 16:00 | 51.0 | 5.73E-03 |
| 27 | 29-Jul 16:00 | 29-Jul 18:00 | 53.0 | 5.08E-03 |
| 28 | 29-Jul 18:00 | 29-Jul 22:00 | 56.0 | 7.65E-03 |
| 29 | 29-Jul 22:00 | 30-Jul 02:00 | 60.0 | 9.53E-02 |
| 30 | 30-Jul 02:00 | 30-Jul 06:00 | 64.0 | 5.61E-02 |
| 31 | 30-Jul 06:00 | 30-Jul 10:00 | 68.0 | 1.14E-01 |
| 32 | 30-Jul 10:00 | 30-Jul 14:00 | 72.0 | 2.08E-02 |
| 33 | 30-Jul 14:02 | 30-Jul 18:02 | 76.0 | 1.13E-02 |
| 34 | 30-Jul 18:02 | 30-Jul 22:02 | 80.0 | 1.09E-02 |
| 35 | 30-Jul 22:02 | 31-Jul 02:02 | 84.0 | 7.40E-03 |
| 36 | 31-Jul 02:02 | 31-Jul 06:02 | 88.0 | 1.33E-02 |
| 37 | 31-Jul 06:02 | 31-Jul 10:02 | 92.0 | 1.03E-02 |
| 38 | 31-Jul 10:02 | 31-Jul 14:02 | 96.0 | 1.23E-02 |
| 39 | 31-Jul 14:02 | 31-Jul 18:02 | 100.0 | 1.61E-02 |
| 40 | 31-Jul 18:02 | 31-Jul 22:02 | 104.0 | 1.55E-02 |
| 41 | 31-Jul 22:02 | 1-Aug 02:02 | 108.0 | 9.53E-03 |
| 42 | 1-Aug 02:02 | 1-Aug 06:02 | 112.0 | 1.32E-02 |
| 43 | 1-Aug 06:02 | 1-Aug 10:02 | 116.0 | 1.37E-02 |
| 44 | 1-Aug 10:02 | 1-Aug 14:02 | 120.0 | 1.90E-02 |
| 45 | 1-Aug 14:02 | 1-Aug 18:02 | 124.0 | 8.49E-03 |
| 46 | 1-Aug 18:02 | 2-Aug 02:02 | 130.0 | 5.35E-03 |
| 47 | 2-Aug 02:02 | 2-Aug 10:02 | 138.0 | 4.45E-03 |
| 48 | 2-Aug 10:02 | 2-Aug 18:02 | 146.0 | 1.41E-02 |
| 49 | 2-Aug 18:02 | 3-Aug 02:02 | 154.0 | 1.29E-02 |
| 50 | 3-Aug 02:02 | 3-Aug 10:02 | 162.0 | 1.56E-02 |
| 51 | 3-Aug 10:02 | 3-Aug 14:02 | 168.0 | 2.56E-02 |

Table B.5 Ratio of HTO to HT concentrations in air at the edge of Plot 3 (cont'd)

| No. | Time sampling started | Time sampling stopped | Elapsed time (h) | Ratio ( - ) |
|---|---|---|---|---|
| 52 | 3-Aug 14:02 | 3-Aug 18:02 | 172.0 | 2.67E-02 |
| 53 | 3-Aug 18:02 | 3-Aug 22:02 | 176.0 | 1.67E-02 |
| 54 | 3-Aug 22:02 | 4-Aug 02:02 | 180.0 | 1.33E-02 |
| 55 | 4-Aug 02:02 | 4-Aug 06:02 | 184.0 | 1.02E-02 |
| 56 | 4-Aug 06:02 | 4-Aug 10:02 | 188.0 | 4.76E-03 |
| 57 | 4-Aug 10:02 | 4-Aug 14:02 | 192.0 | 4.70E-03 |
| 58 | 4-Aug 14:02 | 4-Aug 18:02 | 196.0 | 4.64E-03 |
| 59 | 4-Aug 18:02 | 4-Aug 22:02 | 200.0 | 5.77E-03 |
| 60 | 4-Aug 22:02 | 5-Aug 02:02 | 204.0 | 6.66E-03 |
| 61 | 5-Aug 02:02 | 5-Aug 06:02 | 208.0 | 5.86E-03 |
| 62 | 5-Aug 06:02 | 5-Aug 10:02 | 212.0 | 7.79E-03 |
| 63 | 5-Aug 10:02 | 5-Aug 14:02 | 216.0 | 1.39E-02 |
| 64 | 5-Aug 14:02 | 5-Aug 18:02 | 220.0 | 1.28E-02 |
| 65 | 5-Aug 18:02 | 5-Aug 22:02 | 224.0 | 1.34E-02 |
| 66 | 5-Aug 22:02 | 6-Aug 02:02 | 228.0 | 7.97E-03 |
| 67 | 6-Aug 02:02 | 6-Aug 06:02 | 232.0 | 1.29E-02 |
| 68 | 6-Aug 06:02 | 6-Aug 10:02 | 236.0 | 2.35E-02 |
| 69 | 6-Aug 10:02 | 6-Aug 12:02 | 239.0 | 2.27E-02 |
| 70 | 6-Aug 12:02 | 6-Aug 14:02 | 241.0 | 1.97E-02 |
| 71 | 6-Aug 14:02 | 6-Aug 16:02 | 243.0 | 2.78E-02 |
| 72 | 6-Aug 16:02 | 6-Aug 18:02 | 245.0 | 2.12E-02 |
| 73 | 6-Aug 18:02 | 6-Aug 20:02 | 247.0 | 4.08E-02 |
| 74 | 6-Aug 20:02 | 6-Aug 22:02 | 249.0 | 1.75E-02 |
| 75 | 6-Aug 22:02 | 7-Aug 00:02 | 251.0 | 1.57E-02 |
| 76 | 7-Aug 00:02 | 7-Aug 02:02 | 253.0 | 1.62E-02 |
| 77 | 7-Aug 02:02 | 7-Aug 04:02 | 255.0 | 1.43E-02 |
| 78 | 7-Aug 04:02 | 7-Aug 06:02 | 257.0 | 2.11E-02 |
| 79 | 7-Aug 06:02 | 7-Aug 08:02 | 259.0 | 6.94E-02 |
| 80 | 7-Aug 08:02 | 7-Aug 10:02 | 261.0 | 1.68E-02 |
| 81 | 7-Aug 10:02 | 7-Aug 12:02 | 263.0 | 2.39E-02 |
| 82 | 7-Aug 12:02 | 7-Aug 14:02 | 265.0 | 2.51E-02 |
| 83 | 7-Aug 14:02 | 7-Aug 16:02 | 267.0 | 2.69E-02 |
| 84 | 7-Aug 16:02 | 7-Aug 18:02 | 269.0 | 2.61E-02 |
| 85 | 7-Aug 18:02 | 7-Aug 22:02 | 272.0 | 1.44E-02 |
| 86 | 7-Aug 22:02 | 8-Aug 02:02 | 276.0 | 9.84E-03 |
| 87 | 8-Aug 02:02 | 8-Aug 06:02 | 280.0 | 1.70E-02 |
| 88 | 8-Aug 06:02 | 8-Aug 10:02 | 284.0 | 2.05E-02 |
| 89 | 8-Aug 10:02 | 8-Aug 12:02 | 287.0 | 2.45E-02 |
| 90 | 8-Aug 12:02 | 8-Aug 14:02 | 289.0 | 2.40E-02 |
| 91 | 8-Aug 14:02 | 8-Aug 16:02 | 291.0 | 3.09E-02 |
| 92 | 8-Aug 16:02 | 8-Aug 18:02 | 293.0 | 5.91E-01 |
| 93 | 8-Aug 18:02 | 8-Aug 20:02 | 295.0 | 4.88E+01 |
| 94 | 8-Aug 20:02 | 8-Aug 22:02 | 297.0 | 9.12E+00 |
| 95 | 8-Aug 22:02 | 9-Aug 00:02 | 299.0 | n.m. |
| 96 | 9-Aug 00:02 | 9-Aug 02:02 | 301.0 | n.m. |
| 97 | 9-Aug 02:02 | 9-Aug 04:02 | 303.0 | n.m. |
| 98 | 9-Aug 04:02 | 9-Aug 06:02 | 305.0 | n.m. |
| 99 | 9-Aug 06:02 | 9-Aug 08:02 | 307.0 | n.m. |
| 100 | 9-Aug 08:02 | 9-Aug 10:02 | 309.0 | 5.65E+00 |

n.m.: not measured

Table B.6 HTO concentration in rain water

| No. | Time sampler placed | Time sampler collected | Time rain started | Time rain stopped | Rainfall (mm) | HTO concentration (Bq/ml) |
|---|---|---|---|---|---|---|
| BG1 | 25-Jul 18:00 | 26-Jul 10:40 | 25-Jul 18:00 | 26-Jul 10:40 | 5.9 | 1.96E-01 |
| BG2 | 26-Jul 10:40 | 26-Jul 14:55 | 26-Jul 13:05 | 26-Jul 14:40 | 2.4 | 5.38E-01 |
| BG3 | 26-Jul 15:20 | 26-Jul 20:30 | 26-Jul 16:20 | 26-Jul 16:50 | 7.0 | 1.60E-01 |
| 1 | 27-Jul 08:28 | 28-Jul 16:45 | 28-Jul 15:45 | 28-Jul 16:30 | 0.9 | 4.14E+00 |
| 2 | 28-Jul 16:45 | 30-Jul 12:10 | 30-Jul 11:00 | 30-Jul 12:00 | 2.2 | 5.31E+00 |
| 3 | 30-Jul 12:10 | 01-Aug 14:12 | 01-Aug 13:30 | continued | 1.6 | 6.20E+00 |
| 4 | 01-Aug 14:12 | 01-Aug 16:30 | continued | 01-Aug 16:00 | 3.2 | 5.02E+00 |
| 5 | 01-Aug 16:30 | 03-Aug 09:40 | n.m. | n.m. | 2.5 | 1.66E+02 |
| 6 | 03-Aug 09:40 | 04-Aug 09:30 | 04-Aug 04:15 | continued | 6.8 | 1.62E+01 |
| 7 | 04-Aug 09:30 | 04-Aug 13:40 | continued | continued | 5.6 | 1.62E+01 |
| 8 | 04-Aug 13:40 | 04-Aug 18:05 | continued | 04-Aug 17:48 | 10.1 | 2.18E+01 |
| 9 | 04-Aug 18:05 | 05-Aug 10:00 | 04-Aug 18:10 | 04-Aug 20:00 | 0.6 | 2.02E+02 |
| 10 | 05-Aug 15:08 | 09-Aug 08:00 | n.m. | n.m. | 4.2 | 1.10E+01 |

n.m.: not measured

Table B.7 HTO concentration in dew

| No. | Sampling Time | Sampling Location | HTO Concentration (Bq/ml) |
|---|---|---|---|
| 1 | 28-Jul 05:25 | by the fence | 8.14E+01 |
| 2 | 28-Jul 05:52 | center of the experimental field | 2.54E+01 |
| 3 | 07-Aug 06:00 | by the fence | 4.75E+02 |

Table B.8 HTO deposition to water surface

| No. | Time exposure started | Time exposure stopped | Elapsed time (h) | Exposure period (h) | Weight decrease (g) | HTO deposit ($Bq \cdot m^{-2}$) | HTO flux ($Bq \cdot m^{-2} \cdot h^{-1}$) | $H_2O$ flux ($g \cdot m^{-2} \cdot h^{-1}$) |
|---|---|---|---|---|---|---|---|---|
| BG1 | 26-Jul 10:33 | 26-Jul 15:38 | -22.9 | 5.1 | -1.50E-01 | 4.28E+02 | 2.34E-02 | -1.63E-03 |
| BG2 | 27-Jul 08:30 | 27-Jul 10:30 | -2.5 | 2.0 | 1.14E+00 | 3.91E+02 | 5.43E-02 | 3.15E-02 |
| BG3 | 27-Jul 10:30 | 27-Jul 11:58 | -0.8 | 1.5 | 1.85E+00 | 3.81E+02 | 7.21E-02 | 6.97E-02 |
| 1 | 27-Jul 11:58 | 27-Jul 16:04 | 2.0 | 4.1 | 6.54E+00 | 1.75E+03 | 1.19E-01 | 8.81E-02 |
| 2 | 27-Jul 16:04 | 27-Jul 18:07 | 5.1 | 2.1 | 4.27E+00 | 2.71E+03 | 3.67E-01 | 1.15E-01 |
| 3 | 27-Jul 18:08 | 27-Jul 20:05 | 7.1 | 1.9 | 1.68E+00 | 1.96E+03 | 2.80E-01 | 4.76E-02 |
| 4 | 27-Jul 20:05 | 27-Jul 22:05 | 9.1 | 2.0 | 7.90E-01 | 3.39E+03 | 4.71E-01 | 2.18E-02 |
| 5 | 27-Jul 22:05 | 28-Jul 00:05 | 11.1 | 2.0 | n.m. | 4.54E+03 | 6.31E-01 | n.m. |
| 6 | 28-Jul 00:05 | 28-Jul 02:05 | 13.1 | 2.0 | 6.70E-01 | 4.33E+03 | 6.01E-01 | 1.85E-02 |
| 7 | 28-Jul 02:08 | 28-Jul 04:06 | 15.1 | 2.0 | 3.90E-01 | 4.12E+03 | 5.82E-01 | 1.10E-02 |
| 8 | 28-Jul 04:06 | 28-Jul 06:04 | 17.1 | 2.0 | 2.70E-01 | 5.29E+03 | 7.47E-01 | 7.58E-03 |
| 9 | 28-Jul 06:05 | 28-Jul 08:05 | 19.1 | 2.0 | 1.30E-01 | 7.25E+03 | 1.01E+00 | 3.59E-03 |
| 10 | 28-Jul 08:06 | 28-Jul 10:04 | 21.1 | 2.0 | 5.60E-01 | 9.17E+03 | 1.30E+00 | 1.57E-02 |
| 11 | 28-Jul 10:05 | 28-Jul 12:03 | 23.1 | 2.0 | 2.43E+00 | 1.33E+04 | 1.88E+00 | 6.82E-02 |
| 12 | 28-Jul 12:03 | 28-Jul 14:02 | 25.0 | 2.0 | 4.28E+00 | 2.10E+04 | 2.94E+00 | 1.19E-01 |
| 13 | 28-Jul 14:03 | 28-Jul 15:48 | 26.9 | 1.7 | 3.35E+00 | 2.07E+04 | 3.28E+00 | 1.06E-01 |
| 14 | 28-Jul 15:48 | 28-Jul 18:05 | 28.9 | 2.3 | -2.52E+00 | 8.82E+03 | 1.07E+00 | -6.09E-02 |
| 15 | 28-Jul 18:05 | 29-Jul 10:03 | 38.1 | 16.0 | 1.56E+00 | 7.92E+04 | 1.38E+00 | 5.40E-03 |
| 16 | 29-Jul 10:03 | 29-Jul 14:05 | 48.1 | 4.0 | 7.17E+00 | 1.14E+05 | 7.87E+00 | 9.82E-02 |
| 17 | 29-Jul 14:05 | 29-Jul 16:06 | 51.1 | 2.0 | 7.19E+00 | 1.27E+05 | 1.76E+01 | 1.97E-01 |
| 18 | 29-Jul 18:06 | 30-Jul 10:07 | 62.1 | 16.0 | 9.30E-01 | 7.58E+05 | 1.31E+01 | 3.21E-03 |
| 19 | 30-Jul 10:07 | 30-Jul 14:05 | 72.1 | 4.0 | -6.41E+00 | 3.16E+04 | 2.21E+00 | -8.92E-02 |
| 20 | 30-Jul 14:05 | 30-Jul 18:04 | 76.1 | 4.0 | 2.00E+00 | 5.81E+04 | 4.05E+00 | 2.77E-02 |
| 21 | 30-Jul 18:05 | 31-Jul 10:07 | 86.1 | 16.0 | 1.23E+00 | 1.82E+05 | 3.16E+00 | 4.24E-03 |
| 22 | 31-Jul 10:07 | 01-Aug 10:05 | 106.1 | 24.0 | 1.45E+01 | 4.73E+05 | 5.48E+00 | 3.35E-02 |
| 23 | 01-Aug 10:05 | 01-Aug 14:05 | 120.1 | 4.0 | -4.50E-01 | 1.29E+05 | 8.93E+00 | -6.21E-03 |
| 24 | 01-Aug 14:05 | 01-Aug 18:02 | 124.1 | 3.9 | -1.27E+01 | 3.53E+04 | 2.48E+00 | -1.77E-01 |
| 25 | 01-Aug 18:02 | 03-Aug 10:08 | 146.1 | 40.1 | -9.45E+00 | 6.02E+05 | 4.17E+00 | -1.30E-02 |
| 26 | 03-Aug 10:08 | 03-Aug 14:06 | 168.1 | 4.0 | 5.42E+00 | 1.79E+05 | 1.25E+01 | 7.55E-02 |

n.m.: not measured

Table B.8 HTO deposition to water surface (cont'd)

| No. | Time exposure started | Time exposure stopped | Elapsed time (h) | Exposure period (h) | Weight decrease (g) | HTO deposit ($Bq \cdot m^{-2}$) | HTO flux ($Bq \cdot m^{-2} \cdot s^{-1}$) | $H_2O$ flux ($g \cdot m^{-2} \cdot s^{-1}$) |
|---|---|---|---|---|---|---|---|---|
| 27 | 03-Aug 14:06 | 03-Aug 18:10 | 172.1 | 4.1 | n.m. | 1.40E+05 | 9.59E+00 | n.m. |
| 28 | 03-Aug 18:13 | 04-Aug 10:08 | 182.2 | 15.9 | -2.23E+01 | 2.42E+05 | 4.22E+00 | -7.74E-02 |
| 29 | 04-Aug 18:05 | 05-Aug 10:04 | 206.1 | 16.0 | -1.14E+00 | 7.44E+05 | 1.29E+01 | -3.94E-03 |
| 30 | 05-Aug 10:06 | 05-Aug 14:05 | 216.1 | 4.0 | 7.36E+00 | 4.74E+05 | 3.31E+01 | 1.02E-01 |
| 31 | 05-Aug 14:06 | 05-Aug 18:11 | 220.1 | 4.1 | 6.35E+00 | 4.35E+05 | 2.96E+01 | 8.59E-02 |
| 32 | 05-Aug 18:11 | 06-Aug 10:05 | 230.1 | 15.9 | 1.60E+00 | 3.16E+05 | 5.53E+00 | 5.56E-03 |
| 33 | 06-Aug 10:05 | 06-Aug 12:06 | 239.1 | 2.0 | 2.05E+00 | 1.24E+05 | 1.71E+01 | 5.61E-02 |
| 34 | 06-Aug 12:06 | 06-Aug 14:05 | 241.1 | 2.0 | 3.18E+00 | 1.36E+05 | 1.90E+01 | 8.85E-02 |
| 35 | 06-Aug 14:05 | 06-Aug 16:04 | 243.1 | 2.0 | n.m. | 8.82E+04 | 1.24E+01 | n.m. |
| 36 | 06-Aug 16:04 | 06-Aug 18:07 | 245.1 | 2.1 | 1.88E+00 | 6.64E+04 | 9.00E+00 | 5.06E-02 |
| 37 | 06-Aug 18:07 | 06-Aug 20:03 | 247.1 | 1.9 | 7.60E-01 | 4.04E+04 | 5.80E+00 | 2.17E-02 |
| 38 | 06-Aug 20:03 | 06-Aug 22:04 | 249.1 | 2.0 | 4.00E-02 | 3.42E+04 | 4.71E+00 | 1.10E-03 |
| 39 | 06-Aug 22:04 | 07-Aug 02:05 | 252.1 | 4.0 | -1.10E-01 | 6.56E+04 | 4.54E+00 | -1.51E-03 |
| 40 | 07-Aug 02:05 | 07-Aug 06:08 | 256.1 | 4.1 | -1.10E-01 | 4.85E+04 | 3.33E+00 | -1.50E-03 |
| 41 | 07-Aug 06:09 | 07-Aug 08:06 | 259.1 | 2.0 | -6.00E-02 | 2.72E+04 | 3.87E+00 | -1.70E-03 |
| 42 | 07-Aug 08:06 | 07-Aug 10:04 | 261.1 | 2.0 | 7.00E-01 | 6.27E+04 | 8.86E+00 | 1.97E-02 |
| 43 | 07-Aug 10:04 | 07-Aug 12:06 | 263.1 | 2.0 | n.m. | 1.34E+05 | 1.84E+01 | n.m. |
| 44 | 07-Aug 12:06 | 07-Aug 14:05 | 265.1 | 2.0 | 2.71E+00 | 1.13E+05 | 1.59E+01 | 7.55E-02 |
| 45 | 07-Aug 14:05 | 07-Aug 16:05 | 267.1 | 2.0 | 3.54E+00 | 1.05E+05 | 1.46E+01 | 9.77E-02 |
| 46 | 07-Aug 16:05 | 07-Aug 18:09 | 269.1 | 2.1 | 2.91E+00 | 9.97E+04 | 1.34E+01 | 7.78E-02 |
| 47 | 07-Aug 18:09 | 08-Aug 10:06 | 278.1 | 15.9 | 1.87E+00 | 4.29E+05 | 7.46E+00 | 6.47E-03 |
| 48 | 08-Aug 10:06 | 08-Aug 12:16 | 287.2 | 2.2 | 3.13E+00 | 2.40E+05 | 3.07E+01 | 7.98E-02 |
| 49 | 08-Aug 12:06 | 08-Aug 14:03 | 289.1 | 2.0 | 3.37E+00 | 1.94E+05 | 2.77E+01 | 9.54E-02 |
| 50 | 08-Aug 14:03 | 08-Aug 16:11 | 291.1 | 2.1 | 3.72E+00 | 1.35E+05 | 1.76E+01 | 9.63E-02 |
| 51 | 08-Aug 16:11 | 08-Aug 18:09 | 293.2 | 2.0 | 2.62E+00 | 5.66E+04 | 7.99E+00 | 7.36E-02 |
| 52 | 08-Aug 18:09 | 08-Aug 20:07 | 295.1 | 2.0 | 6.80E-01 | 4.40E+04 | 6.22E+00 | 1.91E-02 |
| 53 | 08-Aug 20:08 | 09-Aug 08:06 | 302.1 | 12.0 | -1.92E+01 | 8.28E+04 | 1.92E+00 | -8.84E-02 |
| 54 | 09-Aug 08:06 | 09-Aug 12:08 | 310.1 | 4.0 | 2.00E+00 | 5.59E+04 | 3.85E+00 | 2.74E-02 |
| 55 | 09-Aug 12:08 | 09-Aug 16:07 | 314.1 | 4.0 | 3.54E+00 | 9.77E+04 | 6.81E+00 | 4.91E-02 |

n.m.: not measured

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# APPENDIX C.

## Tables of Soil Conditions and Tritium Concentrations in Soil

Table C.1 Bulk density of soil at furrow in Plot 3

| No. | Sampling time | Elapsed time (h) | Bulk density (g/m$^3$) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm | 20-25cm | 25-30cm |
| BG1 | 26-Jul 11:02 | -25.0 | 1.29E+06 | 1.19E+06 | 1.28E+06 | 1.22E+06 | 1.24E+06 | 1.57E+06 | 1.67E+06 | 1.79E+06 |
| BG2 | 26-Jul 18:46 | -17.2 | 1.53E+06 | 1.53E+06 | 1.48E+06 | 1.49E+06 | 1.51E+06 | 1.68E+06 | n.m. | n.m. |
| BG3 | 26-Jul 19:09 | -16.8 | 1.41E+06 | 1.50E+06 | 1.58E+06 | 1.50E+06 | 1.68E+06 | n.m. | n.m. | n.m. |
| 1 | 27-Jul 14:00 | 2.0 | 1.25E+06 | 1.33E+06 | 1.31E+06 | 1.28E+06 | 1.36E+06 | 1.68E+06 | n.m. | n.m. |
| 2 | 27-Jul 16:00 | 4.0 | 1.26E+06 | 1.41E+06 | 1.25E+06 | 1.34E+06 | 1.39E+06 | 1.60E+06 | n.m. | n.m. |
| 3 | 27-Jul 18:00 | 6.0 | 1.22E+06 | 1.35E+06 | 1.22E+06 | 1.08E+06 | 1.12E+06 | 1.55E+06 | n.m. | n.m. |
| 4 | 27-Jul 20:00 | 8.0 | 1.48E+06 | 1.33E+06 | 1.17E+06 | 1.19E+06 | 1.52E+06 | 1.54E+06 | n.m. | n.m. |
| 5 | 27-Jul 22:00 | 10.0 | 1.19E+06 | 1.23E+06 | 1.11E+06 | 1.20E+06 | 1.29E+06 | 1.64E+06 | n.m. | n.m. |
| 6 | 28-Jul 00:01 | 12.0 | 1.23E+06 | 1.23E+06 | 1.03E+06 | 1.09E+06 | 1.20E+06 | 1.37E+06 | n.m. | n.m. |
| 7 | 28-Jul 02:00 | 14.0 | 1.18E+06 | 1.33E+06 | 1.03E+06 | 1.11E+06 | 1.32E+06 | 1.52E+06 | n.m. | n.m. |
| 8 | 28-Jul 04:00 | 16.0 | 1.45E+06 | 1.42E+06 | 1.32E+06 | 1.34E+06 | 1.45E+06 | 1.61E+06 | n.m. | n.m. |
| 9 | 28-Jul 05:59 | 18.0 | 1.26E+06 | 1.47E+06 | 1.28E+06 | 1.29E+06 | 1.33E+06 | 1.78E+06 | n.m. | n.m. |
| 10 | 28-Jul 07:58 | 20.0 | 1.37E+06 | 1.40E+06 | 1.44E+06 | 1.32E+06 | 1.31E+06 | 1.54E+06 | n.m. | n.m. |
| 11 | 28-Jul 09:58 | 22.0 | 1.08E+06 | 1.21E+06 | 1.23E+06 | 1.15E+06 | 1.28E+06 | 1.58E+06 | n.m. | n.m. |
| 12 | 28-Jul 11:58 | 24.0 | 1.23E+06 | 1.51E+06 | 1.26E+06 | 1.29E+06 | 1.31E+06 | 1.45E+06 | n.m. | n.m. |
| 13 | 28-Jul 13:59 | 26.0 | 1.42E+06 | 1.43E+06 | 1.36E+06 | 1.36E+06 | 1.19E+06 | 1.53E+06 | n.m. | n.m. |
| 14 | 28-Jul 15:45 | 27.8 | 1.34E+06 | 1.36E+06 | 1.48E+06 | 1.23E+06 | 1.36E+06 | 1.52E+06 | n.m. | n.m. |
| 15 | 28-Jul 16:44 | 28.7 | 1.25E+06 | 1.40E+06 | 1.28E+06 | 1.25E+06 | 1.39E+06 | 1.61E+06 | n.m. | n.m. |
| 16 | 28-Jul 17:59 | 30.0 | 1.39E+06 | 1.30E+06 | 1.35E+06 | 1.22E+06 | 1.36E+06 | 1.71E+06 | n.m. | n.m. |
| 17 | 29-Jul 09:59 | 46.0 | 1.19E+06 | 1.32E+06 | 9.15E+05 | 1.37E+06 | 1.42E+06 | 1.73E+06 | n.m. | n.m. |
| 18 | 29-Jul 13:59 | 50.0 | 1.46E+06 | 1.37E+06 | 1.32E+06 | 1.35E+06 | 1.37E+06 | 1.64E+06 | n.m. | n.m. |
| 19 | 29-Jul 17:59 | 54.0 | 1.38E+06 | 1.27E+06 | 1.13E+06 | 1.14E+06 | 1.26E+06 | 1.65E+06 | n.m. | n.m. |
| 20 | 30-Jul 09:59 | 70.0 | 1.24E+06 | 1.29E+06 | 1.28E+06 | 1.16E+06 | 1.28E+06 | 1.57E+06 | n.m. | n.m. |
| 21 | 30-Jul 13:59 | 74.0 | 1.30E+06 | 1.32E+06 | 1.28E+06 | 1.32E+06 | 1.30E+06 | 1.51E+06 | n.m. | n.m. |
| 22 | 30-Jul 18:00 | 78.0 | 1.22E+06 | 1.33E+06 | 1.33E+06 | 1.32E+06 | 1.27E+06 | 1.56E+06 | n.m. | n.m. |
| 23 | 31-Jul 09:59 | 94.0 | 1.45E+06 | 1.41E+06 | 1.11E+06 | 1.21E+06 | 1.23E+06 | 1.56E+06 | n.m. | n.m. |
| 24 | 1-Aug 10:00 | 118.0 | 1.41E+06 | 1.34E+06 | 1.31E+06 | 1.33E+06 | 1.25E+06 | 1.55E+06 | n.m. | n.m. |
| 25 | 1-Aug 13:59 | 122.0 | 1.37E+06 | 1.46E+06 | 1.39E+06 | 1.34E+06 | 1.25E+06 | 1.58E+06 | n.m. | n.m. |
| 26 | 1-Aug 17:59 | 126.0 | 1.43E+06 | 1.33E+06 | 1.34E+06 | 1.14E+06 | 1.23E+06 | 1.59E+06 | n.m. | n.m. |
| 27 | 3-Aug 10:01 | 166.0 | 1.33E+06 | 1.39E+06 | 1.30E+06 | 1.15E+06 | 1.11E+06 | 1.35E+06 | 1.65E+06 | 1.72E+06 |
| 28 | 3-Aug 14:01 | 170.0 | 1.31E+06 | 1.56E+06 | 1.35E+06 | 1.33E+06 | 1.27E+06 | 1.60E+06 | 1.87E+06 | 1.90E+06 |

n.m.: not measured

Table C.1 Bulk density of soil at furrow in Plot 3 (cont'd)

| No. | Sampling time | Elapsed time (h) | Bulk density (g/m$^3$) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm | 20-25cm | 25-30cm |
| 29 | 3-Aug 18:11 | 174.2 | 1.37E+06 | 1.42E+06 | 1.24E+06 | 1.20E+06 | 1.29E+06 | 1.68E+06 | 1.86E+06 | 1.85E+06 |
| 30 | 4-Aug 10:01 | 190.0 | 1.41E+06 | 1.43E+06 | 1.11E+06 | 1.20E+06 | 1.45E+06 | 1.71E+06 | 1.77E+06 | n.m. |
| 31 | 4-Aug 14:06 | 194.1 | 1.32E+06 | 1.29E+06 | 1.32E+06 | 1.27E+06 | 1.29E+06 | n.m. | n.m. | n.m. |
| 32 | 4-Aug 18:01 | 198.0 | 1.36E+06 | 1.58E+06 | 1.29E+06 | 1.42E+06 | 1.35E+06 | 1.62E+06 | 1.70E+06 | n.m. |
| 33 | 5-Aug 10:00 | 214.0 | 1.25E+06 | 1.21E+06 | 1.19E+06 | 1.21E+06 | 1.59E+06 | 1.73E+06 | 1.85E+06 | 1.86E+06 |
| 34 | 5-Aug 14:01 | 218.0 | 1.27E+06 | 1.22E+06 | 1.13E+06 | 1.12E+06 | 1.45E+06 | 1.66E+06 | 1.66E+06 | n.m. |
| 35 | 5-Aug 18:04 | 222.1 | 1.22E+06 | 1.10E+06 | 1.30E+06 | 1.28E+06 | 1.54E+06 | 1.75E+06 | 1.75E+06 | n.m. |
| 36 | 6-Aug 10:00 | 238.0 | 1.32E+06 | 1.14E+06 | 9.29E+05 | 1.06E+06 | 1.38E+06 | 1.60E+06 | 1.87E+06 | 1.68E+06 |
| 37 | 6-Aug 12:00 | 240.0 | 1.33E+06 | 1.27E+06 | 1.20E+06 | 1.21E+06 | 1.28E+06 | 1.58E+06 | 1.67E+06 | 1.73E+06 |
| 38 | 6-Aug 14:00 | 242.0 | 1.41E+06 | 1.40E+06 | 1.25E+06 | 1.23E+06 | 1.40E+06 | 1.39E+06 | 1.74E+06 | 5.25E+04 |
| 39 | 6-Aug 16:00 | 244.0 | 1.28E+06 | 1.22E+06 | 1.11E+06 | 1.21E+06 | 1.23E+06 | 1.62E+06 | 1.79E+06 | 1.83E+06 |
| 40 | 6-Aug 18:00 | 246.0 | 1.46E+06 | 1.41E+06 | 1.30E+06 | 1.23E+06 | 1.42E+06 | 1.70E+06 | 1.81E+06 | 1.52E+06 |
| 41 | 6-Aug 19:59 | 248.0 | 1.45E+06 | 1.25E+06 | 1.25E+06 | 1.32E+06 | 1.38E+06 | 1.61E+06 | 1.76E+06 | 1.82E+06 |
| 42 | 6-Aug 21:59 | 250.0 | 1.29E+06 | 1.34E+06 | 1.39E+06 | 1.24E+06 | 1.40E+06 | 1.63E+06 | 1.84E+06 | 1.82E+06 |
| 43 | 7-Aug 02:01 | 254.0 | 1.25E+06 | 1.44E+06 | 1.17E+06 | 1.18E+06 | 1.33E+06 | 1.68E+06 | 1.74E+06 | 9.13E+05 |
| 44 | 7-Aug 06:02 | 258.0 | 1.38E+06 | 1.30E+06 | 1.25E+06 | 1.30E+06 | 1.40E+06 | 1.69E+06 | 1.87E+06 | 1.90E+06 |
| 45 | 7-Aug 08:00 | 260.0 | 1.32E+06 | 1.47E+06 | 1.35E+06 | 1.24E+06 | 1.33E+06 | 1.64E+06 | 1.88E+06 | 1.85E+06 |
| 46 | 7-Aug 10:00 | 262.0 | 1.27E+06 | 1.13E+06 | 1.32E+06 | 1.20E+06 | 1.37E+06 | 1.69E+06 | 1.81E+06 | 1.82E+06 |
| 47 | 7-Aug 12:00 | 264.0 | 1.33E+06 | 1.39E+06 | 1.35E+06 | 1.23E+06 | 1.44E+06 | 1.56E+06 | 1.74E+06 | 1.82E+06 |
| 48 | 7-Aug 14:06 | 266.1 | 1.08E+06 | 1.11E+06 | 1.02E+06 | 1.13E+06 | 1.26E+06 | 1.60E+06 | 1.74E+06 | 1.67E+06 |
| 49 | 7-Aug 16:01 | 268.0 | 1.18E+06 | 1.43E+06 | 1.55E+06 | 1.24E+06 | 1.31E+06 | 1.69E+06 | 1.64E+06 | 1.67E+06 |
| 50 | 7-Aug 17:59 | 270.0 | 1.22E+06 | 1.25E+06 | 1.34E+06 | 1.19E+06 | 1.37E+06 | 1.64E+06 | 1.66E+06 | 1.71E+06 |
| 51 | 8-Aug 10:00 | 286.0 | 1.22E+06 | 1.24E+06 | 1.35E+06 | 1.37E+06 | 1.56E+06 | 1.53E+06 | 1.74E+06 | 1.77E+06 |
| 52 | 8-Aug 12:00 | 288.0 | 1.44E+06 | 1.37E+06 | 1.32E+06 | 1.27E+06 | 1.53E+06 | 1.61E+06 | 1.65E+06 | 1.77E+06 |
| 53 | 8-Aug 14:00 | 290.0 | 1.26E+06 | 1.46E+06 | 1.25E+06 | 1.26E+06 | 1.61E+06 | 1.62E+06 | 1.70E+06 | 1.88E+06 |
| 54 | 8-Aug 16:07 | 292.1 | 1.05E+06 | 1.08E+06 | 1.29E+06 | 1.31E+06 | 1.48E+06 | 1.63E+06 | 1.79E+06 | 1.77E+06 |
| 55 | 8-Aug 18:00 | 294.0 | 1.37E+06 | 1.28E+06 | 1.25E+06 | 1.30E+06 | 1.31E+06 | 1.72E+06 | 1.84E+06 | 1.79E+06 |
| 56 | 8-Aug 20:00 | 296.0 | 1.28E+06 | 1.22E+06 | 1.15E+06 | 1.15E+06 | 1.31E+06 | 1.63E+06 | 1.79E+06 | 1.75E+06 |
| 57 | 9-Aug 08:01 | 308.0 | 1.35E+06 | 1.29E+06 | 1.29E+06 | 1.26E+06 | 1.43E+06 | 1.67E+06 | 1.72E+06 | 1.87E+06 |
| 58 | 9-Aug 12:00 | 312.0 | 1.22E+06 | 1.31E+06 | 1.27E+06 | 1.32E+06 | 1.45E+06 | 1.72E+06 | 1.85E+06 | 1.82E+06 |
| 59 | 9-Aug 16:01 | 316.0 | 1.35E+06 | 1.46E+06 | 1.30E+06 | 1.08E+06 | 1.13E+06 | 1.58E+06 | 1.77E+06 | 1.78E+06 |

n.m.: not measured

Table C.2 Water content of dry soil weight at furrow in Plot 3

| No. | Sampling time | Elapsed time (h) | Water content of dry soil weight (%) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm | 20-25cm | 25-30cm |
| BG1 | 26-Jul 11:02 | -25.0 | 48.9 | 53.5 | 47.8 | 46.2 | 45.5 | 38.4 | 32.8 | 31.6 |
| BG2 | 26-Jul 18:46 | -17.2 | 40.5 | 39.5 | 40.0 | 39.6 | 39.9 | 38.4 | n.m. | n.m. |
| BG3 | 26-Jul 19:09 | -16.8 | 28.7 | 32.8 | 31.9 | 31.6 | 32.7 | 37.8 | n.m. | n.m. |
| 1 | 27-Jul 14:00 | 2.0 | 48.0 | 51.5 | 53.6 | 47.4 | 43.3 | 35.6 | n.m. | n.m. |
| 2 | 27-Jul 16:00 | 4.0 | 44.6 | 46.8 | 43.5 | 40.4 | 38.7 | 37.2 | n.m. | n.m. |
| 3 | 27-Jul 18:00 | 6.0 | 45.2 | 50.6 | 67.0 | 64.5 | 68.1 | 39.1 | n.m. | n.m. |
| 4 | 27-Jul 20:00 | 8.0 | 47.3 | 51.7 | 63.3 | 57.7 | 41.2 | 39.3 | n.m. | n.m. |
| 5 | 27-Jul 22:00 | 10.0 | 50.1 | 53.7 | 56.9 | 58.7 | 50.0 | 38.9 | n.m. | n.m. |
| 6 | 28-Jul 00:01 | 12.0 | 48.8 | 58.0 | 57.5 | 67.0 | 56.5 | 40.7 | n.m. | n.m. |
| 7 | 28-Jul 02:00 | 14.0 | 47.8 | 52.5 | 59.3 | 62.4 | 45.0 | 37.7 | n.m. | n.m. |
| 8 | 28-Jul 04:00 | 16.0 | 45.1 | 48.5 | 45.2 | 43.1 | 40.5 | 36.5 | n.m. | n.m. |
| 9 | 28-Jul 05:59 | 18.0 | 50.7 | 48.6 | 46.6 | 48.0 | 40.3 | 34.6 | n.m. | n.m. |
| 10 | 28-Jul 07:58 | 20.0 | 48.2 | 41.1 | 39.8 | 40.8 | 39.3 | 39.0 | n.m. | n.m. |
| 11 | 28-Jul 09:58 | 22.0 | 45.6 | 69.5 | 56.0 | 52.8 | 46.4 | 35.1 | n.m. | n.m. |
| 12 | 28-Jul 11:58 | 24.0 | 47.4 | 46.3 | 42.6 | 39.8 | 39.3 | 38.8 | n.m. | n.m. |
| 13 | 28-Jul 13:59 | 26.0 | 44.8 | 41.6 | 40.6 | 42.2 | 42.4 | 39.1 | n.m. | n.m. |
| 14 | 28-Jul 15:45 | 27.8 | 46.0 | 41.9 | 40.6 | 42.3 | 41.9 | 38.7 | n.m. | n.m. |
| 15 | 28-Jul 16:44 | 28.7 | 47.6 | 43.3 | 46.0 | 46.4 | 37.1 | 38.2 | n.m. | n.m. |
| 16 | 28-Jul 17:59 | 30.0 | 47.3 | 41.0 | 40.8 | 38.2 | 41.5 | 32.7 | n.m. | n.m. |
| 17 | 29-Jul 09:59 | 46.0 | 49.3 | 29.4 | 43.3 | 43.2 | 39.8 | 34.1 | n.m. | n.m. |
| 18 | 29-Jul 13:59 | 50.0 | 42.5 | 36.7 | 38.1 | 38.2 | 39.3 | 35.2 | n.m. | n.m. |
| 19 | 29-Jul 17:59 | 54.0 | 48.8 | 51.6 | 49.6 | 50.8 | 43.7 | 36.3 | n.m. | n.m. |
| 20 | 30-Jul 09:59 | 70.0 | 45.4 | 49.7 | 48.2 | 46.4 | 41.9 | 38.0 | n.m. | n.m. |
| 21 | 30-Jul 13:59 | 74.0 | 49.7 | 41.0 | 39.4 | 40.1 | 40.0 | 40.9 | n.m. | n.m. |
| 22 | 30-Jul 18:00 | 78.0 | 50.1 | 50.3 | 46.5 | 47.8 | 47.2 | 41.5 | n.m. | n.m. |
| 23 | 31-Jul 09:59 | 94.0 | 47.8 | 42.3 | 47.7 | 45.0 | 40.9 | 37.7 | n.m. | n.m. |
| 24 | 1-Aug 10:00 | 118.0 | 41.2 | 46.8 | 42.3 | 39.2 | 41.8 | 33.5 | n.m. | n.m. |
| 25 | 1-Aug 13:59 | 122.0 | 44.7 | 42.5 | 39.1 | 39.9 | 38.2 | 30.6 | n.m. | n.m. |
| 26 | 1-Aug 17:59 | 126.0 | 47.7 | 50.6 | 46.6 | 49.9 | 46.7 | 33.6 | n.m. | n.m. |
| 27 | 3-Aug 10:01 | 166.0 | 49.4 | 49.2 | 46.6 | 47.5 | 51.3 | 39.3 | 30.1 | 26.5 |
| 28 | 3-Aug 14:01 | 170.0 | 45.5 | 41.9 | 40.7 | 41.1 | 40.1 | 21.1 | 24.6 | 23.2 |

n.m.: not measured

Table C.2 Water content of dry soil weight at furrow in Plot 3 (cont'd)

| No. | Sampling time | Elapsed time (h) | Water content of dry soil weight (%) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm | 20-25cm | 25-30cm |
| 29 | 3-Aug 18:11 | 174.2 | 45.1 | 40.5 | 45.0 | 46.6 | 35.3 | 33.3 | 27.5 | 27.6 |
| 30 | 4-Aug 10:01 | 190.0 | 46.8 | 46.5 | 47.0 | 46.0 | 44.0 | 35.1 | 29.5 | n.m. |
| 31 | 4-Aug 14:06 | 194.1 | 52.3 | 48.4 | 57.5 | 46.4 | 39.7 | 39.4 | n.m. | n.m. |
| 32 | 4-Aug 18:01 | 198.0 | 57.6 | 49.4 | 47.8 | 45.2 | 44.0 | 37.7 | 32.4 | n.m. |
| 33 | 5-Aug 10:00 | 214.0 | 53.7 | 61.0 | 49.7 | 48.7 | 40.0 | 39.0 | 33.9 | 30.4 |
| 34 | 5-Aug 14:01 | 218.0 | 52.2 | 50.0 | 57.1 | 49.9 | 40.1 | 37.6 | 34.4 | n.m. |
| 35 | 5-Aug 18:04 | 222.1 | 59.1 | 75.2 | 47.9 | 44.5 | 41.0 | 36.5 | 31.5 | n.m. |
| 36 | 6-Aug 10:00 | 238.0 | 51.9 | 63.5 | 66.5 | 53.8 | 42.8 | 39.1 | 29.7 | 28.8 |
| 37 | 6-Aug 12:00 | 240.0 | 51.2 | 54.9 | 58.7 | 52.3 | 50.1 | 39.0 | 35.4 | 28.4 |
| 38 | 6-Aug 14:00 | 242.0 | 49.6 | 59.4 | 45.0 | 42.7 | 39.7 | 38.9 | 41.3 | 36.7 |
| 39 | 6-Aug 16:00 | 244.0 | 51.6 | 54.9 | 57.0 | 47.3 | 46.8 | 38.3 | 29.9 | 27.4 |
| 40 | 6-Aug 18:00 | 246.0 | 48.7 | 44.4 | 29.2 | 46.9 | 40.2 | 38.4 | 29.8 | 27.0 |
| 41 | 6-Aug 19:59 | 248.0 | 50.3 | 51.7 | 43.6 | 43.9 | 41.7 | 36.8 | 31.6 | 27.5 |
| 42 | 6-Aug 21:59 | 250.0 | 47.2 | 44.0 | 40.7 | 43.6 | 43.1 | 36.7 | 30.5 | 25.9 |
| 43 | 7-Aug 02:01 | 254.0 | 53.1 | 51.5 | 54.1 | 54.3 | 46.0 | 36.8 | 30.8 | 25.9 |
| 44 | 7-Aug 06:02 | 258.0 | 47.5 | 41.0 | 40.9 | 42.9 | 37.9 | 35.7 | 27.7 | 25.4 |
| 45 | 7-Aug 08:00 | 260.0 | 57.7 | 37.6 | 36.1 | 39.0 | 35.5 | 34.0 | 25.3 | 23.8 |
| 46 | 7-Aug 10:00 | 262.0 | 44.2 | 48.2 | 41.8 | 42.8 | 40.8 | 35.6 | 29.6 | 27.9 |
| 47 | 7-Aug 12:00 | 264.0 | 51.7 | 38.5 | 36.0 | 35.4 | 36.1 | 32.8 | 30.0 | 29.1 |
| 48 | 7-Aug 14:06 | 266.1 | 45.0 | 45.3 | 51.4 | 47.2 | 42.4 | 36.6 | 36.0 | 33.9 |
| 49 | 7-Aug 16:01 | 268.0 | 45.2 | 41.7 | 36.5 | 39.4 | 40.2 | 36.8 | 37.2 | 36.9 |
| 50 | 7-Aug 17:59 | 270.0 | 47.3 | 45.8 | 48.6 | 46.8 | 43.0 | 38.6 | 35.6 | 38.6 |
| 51 | 8-Aug 10:00 | 286.0 | 41.0 | 36.9 | 35.8 | 35.9 | 36.7 | 38.4 | 32.5 | 26.8 |
| 52 | 8-Aug 12:00 | 288.0 | 47.5 | 38.0 | 38.0 | 37.6 | 32.1 | 42.9 | 33.6 | 32.1 |
| 53 | 8-Aug 14:00 | 290.0 | 40.3 | 38.0 | 37.5 | 37.4 | 34.6 | 36.2 | 32.9 | 28.4 |
| 54 | 8-Aug 16:07 | 292.1 | 46.1 | 51.4 | 41.9 | 38.8 | 37.3 | 39.1 | 32.2 | 29.9 |
| 55 | 8-Aug 18:00 | 294.0 | 42.0 | 40.3 | 39.2 | 37.8 | 36.5 | 30.6 | 29.5 | 30.9 |
| 56 | 8-Aug 20:00 | 296.0 | 43.7 | 38.0 | 41.4 | 42.3 | 40.1 | 33.2 | 32.8 | 32.3 |
| 57 | 9-Aug 08:01 | 308.0 | 41.3 | 38.8 | 39.3 | 38.3 | 39.5 | 32.3 | 30.7 | 26.3 |
| 58 | 9-Aug 12:00 | 312.0 | 45.1 | 52.0 | 39.3 | 37.7 | 38.2 | 30.8 | 27.2 | 28.1 |
| 59 | 9-Aug 16:01 | 316.0 | 44.2 | 36.2 | 33.6 | 42.7 | n.m. | 34.3 | 29.3 | 24.9 |

n.m.: not measured

Table C.3 Water content of wet soil weight at furrow in Plot 3

| No. | Sampling time | Elapsed time (h) | Water content of wet soil weight (%) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm | 20-25cm | 25-30cm |
| BG1 | 26-Jul 11:02 | -25.0 | 32.9 | 34.8 | 32.3 | 31.6 | 31.3 | 27.7 | 24.7 | 24.0 |
| BG2 | 26-Jul 18:46 | -17.2 | 28.8 | 28.3 | 28.6 | 28.4 | 28.5 | 27.7 | n.m. | n.m. |
| BG3 | 26-Jul 19:09 | -16.8 | 22.3 | 24.7 | 24.2 | 24.0 | 24.6 | 27.4 | n.m. | n.m. |
| 1 | 27-Jul 14:00 | 2.0 | 32.4 | 34.0 | 34.9 | 32.2 | 30.2 | 26.3 | n.m. | n.m. |
| 2 | 27-Jul 16:00 | 4.0 | 30.8 | 31.9 | 30.3 | 28.8 | 27.9 | 27.1 | n.m. | n.m. |
| 3 | 27-Jul 18:00 | 6.0 | 31.1 | 33.6 | 40.1 | 39.2 | 40.5 | 28.1 | n.m. | n.m. |
| 4 | 27-Jul 20:00 | 8.0 | 32.1 | 34.1 | 38.8 | 36.6 | 29.2 | 28.2 | n.m. | n.m. |
| 5 | 27-Jul 22:00 | 10.0 | 33.4 | 34.9 | 36.3 | 37.0 | 33.3 | 28.0 | n.m. | n.m. |
| 6 | 28-Jul 00:01 | 12.0 | 32.8 | 36.7 | 36.5 | 40.1 | 36.1 | 28.9 | n.m. | n.m. |
| 7 | 28-Jul 02:00 | 14.0 | 32.4 | 34.4 | 37.2 | 38.4 | 31.0 | 27.4 | n.m. | n.m. |
| 8 | 28-Jul 04:00 | 16.0 | 31.1 | 32.7 | 31.1 | 30.1 | 28.8 | 26.7 | n.m. | n.m. |
| 9 | 28-Jul 05:59 | 18.0 | 33.6 | 32.7 | 31.8 | 32.4 | 28.7 | 25.7 | n.m. | n.m. |
| 10 | 28-Jul 07:58 | 20.0 | 32.5 | 29.1 | 28.5 | 29.0 | 28.2 | 28.1 | n.m. | n.m. |
| 11 | 28-Jul 09:58 | 22.0 | 31.3 | 41.0 | 35.9 | 34.5 | 31.7 | 26.0 | n.m. | n.m. |
| 12 | 28-Jul 11:58 | 24.0 | 32.2 | 31.7 | 29.9 | 28.4 | 28.2 | 28.0 | n.m. | n.m. |
| 13 | 28-Jul 13:59 | 26.0 | 30.9 | 29.4 | 28.9 | 29.7 | 29.8 | 28.1 | n.m. | n.m. |
| 14 | 28-Jul 15:45 | 27.8 | 31.5 | 29.5 | 28.9 | 29.7 | 29.5 | 27.9 | n.m. | n.m. |
| 15 | 28-Jul 16:44 | 28.7 | 32.3 | 30.2 | 31.5 | 31.7 | 27.0 | 27.7 | n.m. | n.m. |
| 16 | 28-Jul 17:59 | 30.0 | 32.1 | 29.1 | 29.0 | 27.6 | 29.3 | 24.6 | n.m. | n.m. |
| 17 | 29-Jul 09:59 | 46.0 | 33.0 | 22.7 | 30.2 | 30.2 | 28.5 | 25.4 | n.m. | n.m. |
| 18 | 29-Jul 13:59 | 50.0 | 29.8 | 26.9 | 27.6 | 27.6 | 28.2 | 26.1 | n.m. | n.m. |
| 19 | 29-Jul 17:59 | 54.0 | 32.8 | 34.0 | 33.1 | 33.7 | 30.4 | 26.6 | n.m. | n.m. |
| 20 | 30-Jul 09:59 | 70.0 | 31.2 | 33.2 | 32.5 | 31.7 | 29.5 | 27.6 | n.m. | n.m. |
| 21 | 30-Jul 13:59 | 74.0 | 33.2 | 29.1 | 28.3 | 28.6 | 28.6 | 29.0 | n.m. | n.m. |
| 22 | 30-Jul 18:00 | 78.0 | 33.4 | 33.5 | 31.7 | 32.3 | 32.1 | 29.3 | n.m. | n.m. |
| 23 | 31-Jul 09:59 | 94.0 | 32.3 | 29.7 | 32.3 | 31.0 | 29.0 | 27.4 | n.m. | n.m. |
| 24 | 1-Aug 10:00 | 118.0 | 29.2 | 31.9 | 29.7 | 28.2 | 29.5 | 25.1 | n.m. | n.m. |
| 25 | 1-Aug 13:59 | 122.0 | 30.9 | 29.8 | 28.1 | 28.5 | 27.7 | 23.4 | n.m. | n.m. |
| 26 | 1-Aug 17:59 | 126.0 | 32.3 | 33.6 | 31.8 | 33.3 | 31.9 | 25.2 | n.m. | n.m. |
| 27 | 3-Aug 10:01 | 166.0 | 33.1 | 33.0 | 31.8 | 32.2 | 33.9 | 28.2 | 23.1 | 20.9 |
| 28 | 3-Aug 14:01 | 170.0 | 31.3 | 29.5 | 28.9 | 29.1 | 28.6 | 17.4 | 19.7 | 18.8 |

n.m.: not measured

Table C.3 Water content of wet soil weight at furrow in Plot 3 (cont'd)

| No. | Sampling time | Elapsed time (h) | Water content of wet soil weight (%) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm | 20-25cm | 25-30cm |
| 29 | 3-Aug 18:11 | 174.2 | 31.1 | 28.8 | 31.0 | 31.8 | 26.1 | 25.0 | 21.6 | 21.6 |
| 30 | 4-Aug 10:01 | 190.0 | 31.9 | 31.7 | 32.0 | 31.5 | 30.5 | 26.0 | 22.8 | n.m. |
| 31 | 4-Aug 14:06 | 194.1 | 34.4 | 32.6 | 36.5 | 31.7 | 28.4 | 28.3 | n.m. | n.m. |
| 32 | 4-Aug 18:01 | 198.0 | 36.5 | 33.1 | 32.4 | 31.1 | 30.6 | 27.4 | 24.5 | n.m. |
| 33 | 5-Aug 10:00 | 214.0 | 36.0 | 37.9 | 33.2 | 32.8 | 28.5 | 28.0 | 25.3 | 23.3 |
| 34 | 5-Aug 14:01 | 218.0 | 34.3 | 33.3 | 36.3 | 33.3 | 28.6 | 27.3 | 25.6 | n.m. |
| 35 | 5-Aug 18:04 | 222.1 | 37.1 | 42.9 | 32.4 | 30.8 | 29.1 | 26.7 | 23.9 | n.m. |
| 36 | 6-Aug 10:00 | 238.0 | 34.2 | 38.8 | 39.9 | 35.0 | 30.0 | 28.1 | 22.9 | 22.4 |
| 37 | 6-Aug 12:00 | 240.0 | 33.9 | 35.4 | 37.0 | 34.4 | 33.4 | 28.1 | 26.1 | 22.1 |
| 38 | 6-Aug 14:00 | 242.0 | 33.1 | 37.3 | 31.0 | 29.9 | 28.4 | 28.0 | 29.2 | 26.9 |
| 39 | 6-Aug 16:00 | 244.0 | 34.1 | 35.5 | 36.3 | 32.1 | 31.9 | 27.7 | 23.0 | 21.5 |
| 40 | 6-Aug 18:00 | 246.0 | 32.8 | 30.8 | 31.0 | 31.9 | 28.7 | 27.8 | 22.9 | 21.2 |
| 41 | 6-Aug 19:59 | 248.0 | 33.5 | 34.1 | 30.4 | 30.5 | 29.4 | 26.9 | 24.0 | 21.6 |
| 42 | 6-Aug 21:59 | 250.0 | 32.1 | 30.5 | 28.9 | 30.4 | 30.1 | 26.9 | 23.4 | 20.6 |
| 43 | 7-Aug 02:01 | 254.0 | 34.7 | 34.0 | 35.1 | 35.2 | 31.5 | 26.9 | 23.6 | 20.6 |
| 44 | 7-Aug 06:02 | 258.0 | 32.2 | 29.1 | 29.0 | 30.0 | 27.5 | 26.3 | 21.7 | 20.3 |
| 45 | 7-Aug 08:00 | 260.0 | 36.6 | 27.3 | 26.5 | 28.0 | 26.2 | 25.4 | 20.2 | 19.2 |
| 46 | 7-Aug 10:00 | 262.0 | 30.7 | 32.5 | 29.5 | 30.0 | 29.0 | 26.2 | 22.8 | 21.8 |
| 47 | 7-Aug 12:00 | 264.0 | 34.1 | 27.8 | 26.5 | 26.1 | 26.5 | 24.7 | 23.1 | 22.6 |
| 48 | 7-Aug 14:06 | 266.1 | 31.0 | 31.2 | 34.0 | 32.1 | 29.8 | 26.8 | 26.5 | 25.3 |
| 49 | 7-Aug 16:01 | 268.0 | 31.1 | 29.4 | 26.8 | 28.2 | 28.7 | 26.9 | 27.1 | 27.0 |
| 50 | 7-Aug 17:59 | 270.0 | 32.1 | 31.4 | 32.7 | 31.9 | 30.1 | 27.9 | 26.3 | 27.8 |
| 51 | 8-Aug 10:00 | 286.0 | 29.1 | 26.9 | 26.4 | 26.4 | 26.8 | 27.8 | 24.5 | 21.2 |
| 52 | 8-Aug 12:00 | 288.0 | 32.2 | 27.5 | 27.5 | 27.3 | 24.3 | 30.0 | 25.2 | 24.3 |
| 53 | 8-Aug 14:00 | 290.0 | 28.7 | 27.5 | 27.3 | 27.2 | 25.7 | 26.6 | 24.8 | 22.1 |
| 54 | 8-Aug 16:07 | 292.1 | 31.6 | 33.9 | 29.5 | 27.9 | 27.2 | 28.1 | 24.4 | 23.0 |
| 55 | 8-Aug 18:00 | 294.0 | 29.6 | 28.7 | 28.2 | 27.4 | 26.8 | 23.5 | 22.8 | 23.6 |
| 56 | 8-Aug 20:00 | 296.0 | 30.4 | 27.5 | 29.3 | 29.7 | 28.6 | 24.9 | 24.7 | 24.4 |
| 57 | 9-Aug 08:01 | 308.0 | 29.2 | 28.0 | 28.2 | 27.7 | 28.3 | 24.4 | 23.5 | 20.8 |
| 58 | 9-Aug 12:00 | 312.0 | 31.1 | 34.2 | 28.2 | 27.4 | 27.6 | 23.5 | 21.4 | 21.9 |
| 59 | 9-Aug 16:01 | 316.0 | 30.7 | 26.6 | 25.2 | 29.9 | 31.1 | 25.5 | 22.7 | 19.9 |

n.m.: not measured

Table C.4 Free pore volume fraction of soil at furrow in Plot 3

| No. | Sampling time | Elapsed time (h) | Free pore volume fraction (%) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm | 20-25cm | 25-30cm |
| BG1 | 26-Jul 11:02 | -25.0 | 25.5 | 29.8 | 26.3 | 30.7 | 29.4 | 14.5 | 12.2 | 6.5 |
| BG2 | 26-Jul 18:46 | -17.2 | 15.8 | 16.0 | 18.4 | 18.4 | 17.2 | 8.3 | n.m. | n.m. |
| BG3 | 26-Jul 19:09 | -16.8 | 28.0 | 21.3 | 17.4 | 22.0 | 11.5 | n.m. | n.m. | n.m. |
| 1 | 27-Jul 14:00 | 2.0 | 28.1 | 22.5 | 22.5 | 26.8 | 23.5 | 9.8 | n.m. | n.m. |
| 2 | 27-Jul 16:00 | 4.0 | 28.9 | 19.7 | 30.0 | 26.3 | 24.2 | 13.4 | n.m. | n.m. |
| 3 | 27-Jul 18:00 | 6.0 | 31.0 | 21.4 | 23.8 | 33.3 | 29.7 | 15.0 | n.m. | n.m. |
| 4 | 27-Jul 20:00 | 8.0 | 15.5 | 22.2 | 27.9 | 28.4 | 15.9 | 15.8 | n.m. | n.m. |
| 5 | 27-Jul 22:00 | 10.0 | 30.8 | 27.2 | 33.3 | 27.3 | 25.0 | 10.3 | n.m. | n.m. |
| 6 | 28-Jul 00:01 | 12.0 | 29.2 | 26.2 | 38.3 | 32.3 | 28.4 | 24.5 | n.m. | n.m. |
| 7 | 28-Jul 02:00 | 14.0 | 32.0 | 21.9 | 37.6 | 32.1 | 25.1 | 17.3 | n.m. | n.m. |
| 8 | 28-Jul 04:00 | 16.0 | 17.9 | 18.0 | 25.2 | 24.9 | 20.2 | 13.4 | n.m. | n.m. |
| 9 | 28-Jul 05:59 | 18.0 | 26.8 | 15.5 | 27.2 | 25.8 | 26.7 | 5.3 | n.m. | n.m. |
| 10 | 28-Jul 07:58 | 20.0 | 21.2 | 22.3 | 20.7 | 27.0 | 28.1 | 15.8 | n.m. | n.m. |
| 11 | 28-Jul 09:58 | 22.0 | 38.9 | 23.9 | 26.9 | 32.5 | 27.2 | 15.6 | n.m. | n.m. |
| 12 | 28-Jul 11:58 | 24.0 | 29.4 | 13.7 | 29.7 | 29.2 | 28.0 | 20.6 | n.m. | n.m. |
| 13 | 28-Jul 13:59 | 26.0 | 19.6 | 20.5 | 25.2 | 24.1 | 33.7 | 16.5 | n.m. | n.m. |
| 14 | 28-Jul 15:45 | 27.8 | 23.8 | 24.2 | 18.5 | 31.2 | 24.6 | 16.8 | n.m. | n.m. |
| 15 | 28-Jul 16:44 | 28.7 | 28.5 | 21.6 | 27.2 | 29.1 | 24.8 | 12.1 | n.m. | n.m. |
| 16 | 28-Jul 17:59 | 30.0 | 20.2 | 28.2 | 25.3 | 33.4 | 24.5 | 10.0 | n.m. | n.m. |
| 17 | 29-Jul 09:59 | 46.0 | 31.2 | 32.4 | 48.7 | 23.5 | 22.2 | 8.2 | n.m. | n.m. |
| 18 | 29-Jul 13:59 | 50.0 | 18.7 | 26.2 | 28.1 | 26.6 | 25.1 | 12.6 | n.m. | n.m. |
| 19 | 29-Jul 17:59 | 54.0 | 20.1 | 25.5 | 34.4 | 33.6 | 28.9 | 11.5 | n.m. | n.m. |
| 20 | 30-Jul 09:59 | 70.0 | 29.9 | 25.4 | 26.6 | 33.9 | 28.8 | 14.6 | n.m. | n.m. |
| 21 | 30-Jul 13:59 | 74.0 | 24.8 | 26.8 | 29.8 | 27.3 | 28.6 | 16.4 | n.m. | n.m. |
| 22 | 30-Jul 18:00 | 78.0 | 29.3 | 22.8 | 24.2 | 24.4 | 27.1 | 13.2 | n.m. | n.m. |
| 23 | 31-Jul 09:59 | 94.0 | 16.8 | 21.6 | 36.4 | 31.6 | 32.2 | 15.3 | n.m. | n.m. |
| 24 | 1-Aug 10:00 | 118.0 | 21.7 | 23.3 | 27.2 | 27.1 | 30.4 | 18.0 | n.m. | n.m. |
| 25 | 1-Aug 13:59 | 122.0 | 22.8 | 18.7 | 23.7 | 26.4 | 32.0 | 18.3 | n.m. | n.m. |
| 26 | 1-Aug 17:59 | 126.0 | 17.8 | 22.6 | 23.6 | 33.7 | 29.8 | 15.7 | n.m. | n.m. |
| 27 | 3-Aug 10:01 | 166.0 | 23.3 | 19.8 | 25.9 | 34.3 | 35.3 | 26.2 | 14.7 | 13.7 |
| 28 | 3-Aug 14:01 | 170.0 | 25.6 | 13.0 | 25.2 | 26.5 | 30.1 | 23.4 | 7.6 | 7.3 |

n.m.: not measured

Table C.4 Free pore volume fraction of soil at furrow in Plot 3 (cont'd)

| No. | Sampling time | Elapsed time (h) | Free pore volume fraction (%) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm | 20-25cm | 25-30cm |
| 29 | 3-Aug 18:11 | 174.2 | 22.2 | 21.5 | 30.0 | 31.3 | 30.9 | 11.4 | 6.0 | 6.2 |
| 30 | 4-Aug 10:01 | 190.0 | 19.7 | 18.7 | 36.3 | 31.8 | 18.2 | 8.6 | 9.3 | n.m. |
| 31 | 4-Aug 14:06 | 194.1 | 22.3 | 25.6 | 20.8 | 27.5 | 29.3 | n.m. | n.m. | n.m. |
| 32 | 4-Aug 18:01 | 198.0 | 18.4 | 8.6 | 26.1 | 19.4 | 23.8 | 12.3 | 10.8 | n.m. |
| 33 | 5-Aug 10:00 | 214.0 | 23.7 | 26.3 | 31.2 | 30.2 | 12.6 | 5.4 | 2.2 | 3.8 |
| 34 | 5-Aug 14:01 | 218.0 | 25.7 | 29.1 | 32.1 | 35.1 | 20.2 | 10.1 | 11.6 | n.m. |
| 35 | 5-Aug 18:04 | 222.1 | 26.2 | 29.5 | 25.6 | 27.5 | 14.7 | 5.9 | 9.0 | n.m. |
| 36 | 6-Aug 10:00 | 238.0 | 22.5 | 30.1 | 42.2 | 37.3 | 22.9 | 12.3 | 3.8 | 14.1 |
| 37 | 6-Aug 12:00 | 240.0 | 22.1 | 24.5 | 27.7 | 29.2 | 25.7 | 13.5 | 10.5 | 11.7 |
| 38 | 6-Aug 14:00 | 242.0 | 18.2 | 15.5 | 29.6 | 31.4 | 22.9 | 23.8 | 3.7 | n.m. |
| 39 | 6-Aug 16:00 | 244.0 | 25.4 | 27.7 | 33.3 | 30.7 | 30.0 | 11.7 | 7.9 | 7.3 |
| 40 | 6-Aug 18:00 | 246.0 | 16.0 | 20.6 | 8.5 | 29.5 | 21.8 | 7.4 | 6.6 | 23.5 |
| 41 | 6-Aug 19:59 | 248.0 | 15.6 | 27.1 | 29.9 | 26.0 | 23.4 | 13.3 | 8.3 | 8.1 |
| 42 | 6-Aug 21:59 | 250.0 | 26.2 | 24.5 | 23.4 | 30.1 | 21.7 | 12.0 | 4.8 | 8.8 |
| 43 | 7-Aug 02:01 | 254.0 | 26.4 | 16.0 | 31.0 | 30.0 | 24.5 | 9.3 | 9.8 | n.m. |
| 44 | 7-Aug 06:02 | 258.0 | 21.0 | 28.1 | 30.8 | 27.5 | 23.8 | 9.2 | 5.3 | 5.2 |
| 45 | 7-Aug 08:00 | 260.0 | 21.0 | 20.0 | 27.3 | 32.1 | 28.9 | 12.9 | 6.7 | 9.0 |
| 46 | 7-Aug 10:00 | 262.0 | 28.5 | 34.9 | 26.6 | 33.1 | 24.0 | 9.5 | 6.8 | 7.6 |
| 47 | 7-Aug 12:00 | 264.0 | 22.4 | 24.2 | 27.5 | 34.0 | 22.5 | 18.1 | 10.3 | 7.0 |
| 48 | 7-Aug 14:06 | 266.1 | 38.8 | 37.2 | 40.2 | 35.4 | 29.8 | 13.6 | 6.7 | 11.5 |
| 49 | 7-Aug 16:01 | 268.0 | 33.3 | 20.4 | 16.7 | 32.0 | 27.7 | 8.8 | 11.1 | 9.8 |
| 50 | 7-Aug 17:59 | 270.0 | 30.4 | 29.2 | 22.6 | 32.0 | 23.3 | 10.7 | 11.2 | 6.7 |
| 51 | 8-Aug 10:00 | 286.0 | 32.6 | 33.0 | 27.8 | 26.3 | 15.7 | 16.8 | 8.4 | 10.7 |
| 52 | 8-Aug 12:00 | 288.0 | 17.3 | 25.4 | 28.1 | 30.9 | 19.8 | 9.8 | 12.8 | 7.3 |
| 53 | 8-Aug 14:00 | 290.0 | 30.4 | 20.5 | 32.3 | 31.6 | 14.3 | 12.6 | 10.3 | 4.1 |
| 54 | 8-Aug 16:07 | 292.1 | 40.5 | 37.0 | 28.0 | 28.2 | 19.6 | 10.7 | 6.1 | 8.8 |
| 55 | 8-Aug 18:00 | 294.0 | 23.9 | 29.6 | 31.7 | 29.3 | 29.3 | 10.8 | 5.4 | 7.0 |
| 56 | 8-Aug 20:00 | 296.0 | 28.1 | 33.9 | 36.1 | 36.0 | 28.0 | 14.1 | 5.6 | 8.4 |
| 57 | 9-Aug 08:01 | 308.0 | 25.1 | 29.5 | 29.4 | 31.4 | 21.8 | 12.6 | 10.9 | 6.4 |
| 58 | 9-Aug 12:00 | 312.0 | 30.8 | 23.5 | 30.3 | 28.4 | 20.8 | 10.7 | 6.4 | 7.3 |
| 59 | 9-Aug 16:01 | 316.0 | 24.1 | 21.6 | 31.4 | 39.9 | 36.0 | 16.2 | 9.2 | 11.9 |

n.m.: not measured

Table C.5 Water content of dry soil weight at ridge in Plot 3

| No. | Sampling time | Elapsed time (h) | Water content of dry soil weight (%) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-12.5cm | 12.5-15cm | 15-17.5cm | 17.5-20cm |
| BG | 26-Jul 17:40 | -18.3 | 30.6 | 26.9 | 24.2 | 22.2 | 21.7 | 21.4 | 16.7 | 12.6 |
| 1 | 27-Jul 14:25 | 2.4 | 47.7 | 42.4 | 41.2 | 41.2 | 39.2 | 40.9 | 35.3 | 31.3 |
| 2 | 27-Jul 17:05 | 5.1 | 46.4 | 37.2 | 37.2 | 38.8 | 36.6 | 35.8 | 35.5 | 32.6 |
| 3 | 27-Jul 20:10 | 8.2 | 44.4 | 34.9 | 36.0 | 37.3 | 37.5 | 36.7 | 36.1 | 35.5 |
| 4 | 27-Jul 23:25 | 11.4 | 41.6 | 45.6 | 37.7 | 35.2 | 37.2 | 33.7 | 32.7 | 32.5 |
| 5 | 28-Jul 03:15 | 15.2 | 43.7 | 41.1 | 39.8 | 40.5 | 46.3 | 39.9 | 37.3 | 36.3 |
| 6 | 28-Jul 07:20 | 19.3 | 42.6 | 43.2 | 39.9 | 43.4 | 44.0 | 39.0 | 31.7 | 28.0 |
| 7 | 28-Jul 12:00 | 24.0 | 42.6 | 43.2 | 39.9 | 43.4 | 44.0 | 39.0 | 31.7 | 28.0 |
| 8 | 28-Jul 17:30 | 29.5 | 45.1 | 47.6 | 44.1 | 52.2 | 46.1 | 38.4 | 37.7 | 32.9 |
| 9 | 29-Jul 09:55 | 45.9 | 44.7 | 39.0 | 57.8 | 40.2 | 38.4 | 40.2 | 34.4 | 32.0 |
| 10 | 29-Jul 14:00 | 50.0 | 48.1 | 51.6 | 60.2 | 60.3 | 56.3 | 41.5 | 40.0 | 35.7 |
| 11 | 29-Jul 17:55 | 53.9 | 38.2 | 36.7 | 39.6 | 36.2 | 35.3 | 33.3 | 32.9 | 34.1 |
| 12 | 30-Jul 14:00 | 74.0 | 51.3 | 46.4 | 42.3 | 42.8 | 40.7 | 39.4 | 43.6 | 45.8 |
| 13 | 1-Aug 14:10 | 122.2 | 42.3 | 40.2 | 37.7 | 38.3 | 37.5 | 36.7 | 26.5 | 25.1 |
| 14 | 3-Aug 14:05 | 170.1 | 40.9 | 43.3 | 41.3 | 43.6 | 40.6 | 50.3 | 37.7 | 34.2 |
| 15 | 5-Aug 14:00 | 218.0 | 49.5 | 52.0 | 78.3 | 43.5 | 36.7 | 35.9 | 43.3 | n.m. |
| 16 | 6-Aug 13:40 | 241.7 | 49.0 | 38.3 | 40.5 | 37.8 | 41.3 | 35.6 | 37.0 | 37.1 |
| 17 | 7-Aug 14:00 | 266.0 | 37.2 | 38.1 | 43.1 | 43.6 | 42.7 | 35.9 | 37.5 | 34.4 |
| 18 | 8-Aug 14:00 | 290.0 | 44.5 | 49.1 | 53.7 | 49.7 | 42.5 | 34.1 | 27.1 | 27.1 |
| 19 | 9-Aug 14:00 | 314.0 | 42.1 | 40.2 | 41.2 | 38.8 | 37.3 | 37.5 | 38.2 | 34.4 |

n.m.: not measured

Table C.6 Free pore volume fraction of soil at ridge in Plot 3

| No. | Sampling time | Elapsed time (h) | Free pore volume fraction (%) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-12.5cm | 12.5-15cm | 15-17.5cm | 17.5-20cm |
| BG | 26-Jul 17:40 | -18.3 | 50.8 | 18.0 | 24.4 | 12.7 | 31.0 | - | 26.2 | - |
| 1 | 27-Jul 14:25 | 2.4 | 21.5 | 46.7 | 28.0 | 0.7 | 6.4 | 20.5 | 4.0 | 26.6 |
| 2 | 27-Jul 17:05 | 5.1 | 9.9 | 34.6 | 30.7 | 13.3 | 12.9 | 12.2 | 19.5 | 32.6 |
| 3 | 27-Jul 20:10 | 8.2 | 25.7 | 8.7 | 23.0 | 18.0 | 21.8 | 2.5 | 31.7 | 2.9 |
| 4 | 27-Jul 23:25 | 11.4 | 18.1 | 19.8 | 35.1 | -17.1 | 11.4 | 8.8 | 12.0 | 13.9 |
| 5 | 28-Jul 03:15 | 15.2 | 61.8 | 56.3 | 48.3 | 23.7 | 29.7 | 22.1 | 22.0 | 11.5 |
| 6 | 28-Jul 07:20 | 19.3 | 39.1 | 22.6 | 18.6 | 9.3 | 6.0 | 16.5 | 21.9 | 29.2 |
| 7 | 28-Jul 12:00 | 24.0 | 49.1 | 31.6 | 25.5 | 23.7 | 18.3 | 6.2 | 26.5 | 21.7 |
| 8 | 28-Jul 17:30 | 29.5 | 63.4 | 53.6 | 32.0 | 23.2 | 31.3 | 11.9 | 18.9 | 15.0 |
| 9 | 29-Jul 09:55 | 45.9 | 49.7 | 38.8 | 26.9 | 14.5 | 23.4 | 10.7 | 15.6 | 21.9 |
| 10 | 29-Jul 14:00 | 50.0 | 72.9 | 37.2 | 38.3 | 26.1 | 40.9 | 9.9 | 22.2 | 16.9 |
| 11 | 29-Jul 17:55 | 53.9 | 26.8 | 21.0 | 20.1 | 9.8 | 18.3 | - | 16.8 | 9.6 |
| 12 | 30-Jul 14:00 | 74.0 | 41.9 | 34.9 | 34.7 | 25.4 | 18.9 | 6.2 | 19.8 | 28.1 |
| 13 | 1-Aug 14:10 | 122.2 | 14.0 | 21.9 | 17.2 | 12.7 | 28.1 | 0.9 | 17.4 | 15.8 |
| 14 | 3-Aug 14:05 | 170.1 | 45.9 | 39.4 | 35.4 | 32.9 | 8.9 | 31.1 | 29.6 | 28.9 |
| 15 | 5-Aug 14:00 | 218.0 | 39.9 | 29.6 | 32.4 | 9.0 | 16.1 | 16.5 | 53.5 | n.m. |
| 16 | 6-Aug 13:40 | 241.7 | 36.8 | 23.1 | 26.0 | 13.9 | 26.1 | 4.6 | 19.9 | 36.3 |
| 17 | 7-Aug 14:00 | 266.0 | 39.4 | 33.0 | 36.9 | 18.1 | 34.0 | 7.7 | 26.2 | 13.2 |
| 18 | 8-Aug 14:00 | 290.0 | 37.9 | 29.7 | 35.6 | 20.4 | 20.1 | - | 27.2 | 9.3 |
| 19 | 9-Aug 14:00 | 314.0 | 37.2 | 27.8 | 27.8 | 19.6 | 9.8 | 5.4 | 28.4 | 11.3 |

n.m.: not measured

-: omitted because of an erroneous result

Table C.7 Bulk density of soil in the natural plot (Plot 4)

| No. | Sampling time | Elapsed time (h) | Bulk density (g/m$^3$) [a] | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm |
| BG | 26-Jul 19:36 | -16.4 | 1.07E+06 | 8.44E+05 | 1.35E+06 | | n.m. | n.m. |
| 1 | 28-Jul 10:00 | 22.0 | 9.66E+05 | 1.26E+06 | 1.61E+06 | | n.m. | n.m. |
| 2 | 31-Jul 10:04 | 94.1 | 1.02E+06 | 1.29E+06 | 1.35E+06 | 1.64E+06 | 1.45E+06 | 1.60E+06 |
| 3 | 3-Aug 10:03 | 166.1 | 6.37E+05 | 9.29E+05 | 1.42E+06 | 1.38E+06 | 1.67E+06 | 1.53E+06 |
| 4 | 6-Aug 18:02 | 246.0 | 9.46E+05 | 1.41E+06 | 1.52E+06 | 1.57E+06 | 1.46E+06 | 1.49E+06 |
| 5 | 7-Aug 06:06 | 258.1 | 7.14E+05 | 9.62E+05 | 1.17E+06 | 1.46E+06 | 1.52E+06 | 1.53E+06 |
| 6 | 7-Aug 12:04 | 264.1 | 7.17E+05 | 1.20E+06 | 1.46E+06 | 1.48E+06 | 1.45E+06 | 1.59E+06 |
| 7 | 7-Aug 18:05 | 270.1 | 6.88E+05 | 1.22E+06 | 1.38E+06 | 1.41E+06 | 1.44E+06 | 1.60E+06 |
| 8 | 8-Aug 12:03 | 288.1 | 7.55E+05 | 1.26E+06 | 1.46E+06 | 1.47E+06 | 1.38E+06 | 1.49E+06 |
| 9 | 8-Aug 18:03 | 294.1 | 5.20E+05 | 1.19E+06 | 1.39E+06 | 1.57E+06 | 1.49E+06 | 1.49E+06 |
| 10 | 9-Aug 08:03 | 308.1 | 7.05E+05 | 1.18E+06 | 1.42E+06 | 1.67E+06 | 1.53E+06 | 1.49E+06 |
| 11 | 9-Aug 12:02 | 312.0 | 6.74E+05 | 1.35E+06 | 1.54E+06 | 1.63E+06 | 1.59E+06 | 1.49E+06 |
| 12 | 9-Aug 16:03 | 316.1 | 8.27E+05 | 1.30E+06 | 1.47E+06 | 1.59E+06 | 1.62E+06 | 1.68E+06 |

[a] The soil cores of BG and No.1 were sectioned into three segments (0-2.5, 2.5-5 and 5-10 cm).

n.m.: not measured

Table C.8 Water content of dry soil weight in the natural plot (Plot 4)

| No. | Sampling time | Elapsed time (h) | Water content of dry weight (%) [a] | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm |
| BG | 26-Jul 19:36 | -16.4 | 64.5 | 63.3 | 37.0 | | n.m. | n.m. |
| 1 | 28-Jul 10:00 | 22.0 | 63.4 | 43.1 | 34.7 | | n.m. | n.m. |
| 2 | 31-Jul 10:04 | 94.1 | 62.2 | 37.8 | 39.2 | 34.3 | 37.7 | 32.9 |
| 3 | 3-Aug 10:03 | 166.1 | 65.7 | 51.9 | 36.4 | 34.4 | 34.3 | 36.6 |
| 4 | 6-Aug 18:02 | 246.0 | 62.4 | 36.5 | 33.4 | 35.2 | 36.7 | 34.4 |
| 5 | 7-Aug 06:06 | 258.1 | 60.6 | 58.6 | 51.5 | 34.5 | 35.1 | 32.8 |
| 6 | 7-Aug 12:04 | 264.1 | 53.9 | 43.0 | 34.2 | 34.6 | 38.1 | 32.9 |
| 7 | 7-Aug 18:05 | 270.1 | 56.0 | 43.3 | 35.2 | 35.1 | 37.0 | 34.6 |
| 8 | 8-Aug 12:03 | 288.1 | 52.1 | 37.2 | 33.9 | 33.9 | 37.4 | 39.5 |
| 9 | 8-Aug 18:03 | 294.1 | 64.9 | 41.5 | 34.4 | 33.1 | 36.7 | 34.7 |
| 10 | 9-Aug 08:03 | 308.1 | 65.9 | 46.9 | 33.6 | 34.6 | 32.8 | 36.6 |
| 11 | 9-Aug 12:02 | 312.0 | 70.7 | 37.0 | 31.8 | 32.7 | 32.0 | 36.5 |
| 12 | 9-Aug 16:03 | 316.1 | 61.9 | 41.2 | 36.2 | 33.1 | 36.1 | 34.8 |

[a] The soil cores of BG and No.1 were sectioned into three segments (0-2.5, 2.5-5 and 5-10 cm).

n.m.: not measured

Table C.9 Water content of wet soil weight in the natural plot (Plot 4)

| No. | Sampling time | Elapsed time (h) | Water content of wet weight (%) [a] | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm |
| BG | 26-Jul 19:36 | -16.4 | 39.2 | 38.8 | 27.0 | | n.m. | n.m. |
| 1 | 28-Jul 10:00 | 22.0 | 38.8 | 30.1 | 25.7 | | n.m. | n.m. |
| 2 | 31-Jul 10:04 | 94.1 | 38.3 | 27.4 | 28.2 | 25.5 | 27.4 | 24.7 |
| 3 | 3-Aug 10:03 | 166.1 | 39.7 | 34.2 | 26.7 | 25.6 | 25.5 | 26.8 |
| 4 | 6-Aug 18:02 | 246.0 | 38.4 | 26.7 | 25.1 | 26.0 | 26.8 | 25.6 |
| 5 | 7-Aug 06:06 | 258.1 | 37.7 | 37.0 | 34.0 | 25.6 | 26.0 | 24.7 |
| 6 | 7-Aug 12:04 | 264.1 | 35.0 | 30.1 | 25.5 | 25.7 | 27.6 | 24.8 |
| 7 | 7-Aug 18:05 | 270.1 | 35.9 | 30.2 | 26.0 | 26.0 | 27.0 | 25.7 |
| 8 | 8-Aug 12:03 | 288.1 | 34.3 | 27.1 | 25.3 | 25.3 | 27.2 | 28.3 |
| 9 | 8-Aug 18:03 | 294.1 | 39.4 | 29.3 | 25.6 | 24.8 | 26.9 | 25.8 |
| 10 | 9-Aug 08:03 | 308.1 | 39.7 | 31.9 | 25.2 | 25.7 | 24.7 | 26.8 |
| 11 | 9-Aug 12:02 | 312.0 | 41.4 | 27.0 | 24.1 | 24.6 | 24.3 | 26.7 |
| 12 | 9-Aug 16:03 | 316.1 | 38.2 | 29.2 | 26.6 | 24.9 | 26.5 | 25.8 |

[a] The soil cores of BG and No.1 were sectioned into three segments (0-2.5, 2.5-5 and 5-10 cm).

n.m.: not measured

Table C.10 Free pore volume fraction of soil in the natural plot (Plot 4)

| No. | Sampling time | Elapsed time (h) | Free pore volume fraction (%) [a] | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm |
| BG | 26-Jul 19:36 | -16.4 | 34.2 | 48.2 | 26.9 | | n.m. | n.m. |
| 1 | 28-Jul 10:00 | 22.0 | 40.6 | 29.6 | 14.4 | | n.m. | n.m. |
| 2 | 31-Jul 10:04 | 94.1 | 37.7 | 29.9 | 26.1 | 13.1 | 21.1 | 16.0 |
| 3 | 3-Aug 10:03 | 166.1 | 60.5 | 45.6 | 23.4 | 26.8 | 11.4 | 17.5 |
| 4 | 6-Aug 18:02 | 246.0 | 42.1 | 24.2 | 19.7 | 16.1 | 21.1 | 20.9 |
| 5 | 7-Aug 06:06 | 258.1 | 56.6 | 42.0 | 31.6 | 22.3 | 18.8 | 19.7 |
| 6 | 7-Aug 12:04 | 264.1 | 57.6 | 33.0 | 22.3 | 21.3 | 21.3 | 16.5 |
| 7 | 7-Aug 18:05 | 270.1 | 59.0 | 31.9 | 26.4 | 24.8 | 22.2 | 14.9 |
| 8 | 8-Aug 12:03 | 288.1 | 55.8 | 31.6 | 22.6 | 22.3 | 25.3 | 18.2 |
| 9 | 8-Aug 18:03 | 294.1 | 67.9 | 34.2 | 25.9 | 17.4 | 19.6 | 20.8 |
| 10 | 9-Aug 08:03 | 308.1 | 56.2 | 32.6 | 24.8 | 11.3 | 19.7 | 19.8 |
| 11 | 9-Aug 12:02 | 312.0 | 57.5 | 27.0 | 19.7 | 14.2 | 16.7 | 19.7 |
| 12 | 9-Aug 16:03 | 316.1 | 49.5 | 28.1 | 21.0 | 16.1 | 13.1 | 10.6 |

[a] The soil cores of BG and No.1 were sectioned into three segments (0-2.5, 2.5-5 and 5-10 cm).

n.m.: not measured

Table C.11 Bulk density of soil at a distance of 50 m from the experimental plot

| No. | Sampling time | Elapsed time (h) | Bulk density (g/m$^3$) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm |
| BG | 26-Jul 19:09 | -16.8 | 1.41E+06 | 1.50E+06 | 1.58E+06 | 1.50E+06 | 1.68E+06 | 2.76E+05 |
| 1 | 30-Jul 14:35 | 74.6 | 1.29E+06 | 1.70E+06 | 1.59E+06 | 1.75E+06 | 1.74E+06 | 1.78E+06 |

Table C.12 Water content of dry soil weight at a distance of 50 m from the experimental plot

| No. | Sampling time | Elapsed time (h) | Water content of dry weight (%) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm |
| BG | 26-Jul 19:09 | -16.8 | 28.7 | 32.8 | 31.9 | 31.6 | 32.7 | 37.8 |
| 1 | 30-Jul 14:35 | 74.6 | 35.3 | 37.1 | 33.3 | 32.5 | 32.2 | 35.2 |

Table C.13 Water content of wet soil weight at a distance of 50 m from the experimental plot

| No. | Sampling time | Elapsed time (h) | Water content of wet weight (%) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm |
| BG | 26-Jul 19:09 | -16.8 | 22.3 | 24.7 | 24.2 | 24.0 | 24.6 | 27.4 |
| 1 | 30-Jul 14:35 | 74.6 | 26.1 | 27.1 | 25.0 | 24.5 | 24.4 | 26.1 |

Table C.14 Free pore volume fraction of soil at a distance of 50 m from the experimental plot

| No. | Sampling time | Elapsed time (h) | Free pore volume fraction (%) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm |
| BG | 26-Jul 19:09 | -16.8 | 28.0 | 21.3 | 17.4 | 22.0 | 11.5 | 85.0 |
| 1 | 30-Jul 14:35 | 74.6 | 30.8 | 8.2 | 16.0 | 8.2 | 8.6 | 4.6 |

Table C.15 HTO deposit to soil at furrow in Plot 3

| No. | Sampling time | Elapsed time (h) | HTO deposit at each depth (Bq/m$^2$) | | | | | | | | Total deposit (Bq/m$^2$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm | 20-25cm | 25-30cm | |
| BG1 | 26-Jul 11:02 | -25.0 | 8.07E+02 | 1.93E+03 | 1.93E+03 | 1.33E+03 | 8.52E+02 | 9.27E+02 | 1.20E+03 | 1.30E+03 | 1.03E+04 |
| BG2 | 26-Jul 18:46 | -17.2 | 9.46E+02 | 3.80E+03 | 1.97E+03 | 1.83E+03 | 1.83E+03 | 1.67E+03 | 2.62E+03 | n.m. | 1.47E+04 |
| BG3 | 26-Jul 19:09 | -16.8 | 2.71E+03 | 3.02E+03 | 2.10E+03 | 2.05E+03 | 2.66E+03 | 1.40E+03 | n.m. | n.m. | 1.39E+04 |
| 1 | 27-Jul 14:00 | 2.0 | 9.49E+03 | 4.50E+03 | 2.76E+03 | 2.69E+03 | 4.15E+03 | 2.24E+03 | n.m. | n.m. | 2.58E+04 |
| 2 | 27-Jul 16:00 | 4.0 | 6.51E+03 | 4.06E+03 | 2.83E+03 | 3.60E+03 | 3.36E+03 | 2.73E+03 | n.m. | n.m. | 2.31E+04 |
| 3 | 27-Jul 18:00 | 6.0 | 1.30E+04 | 3.41E+03 | 3.45E+03 | 2.36E+03 | 6.80E+02 | 2.97E+03 | n.m. | n.m. | 2.58E+04 |
| 4 | 27-Jul 20:00 | 8.0 | 2.59E+04 | 4.30E+03 | 3.86E+03 | 2.76E+03 | 3.61E+03 | 4.47E+03 | n.m. | n.m. | 4.49E+04 |
| 5 | 27-Jul 22:00 | 10.0 | 1.14E+05 | 2.82E+04 | 7.64E+03 | 4.44E+03 | 5.49E+03 | 3.63E+03 | n.m. | n.m. | 1.63E+05 |
| 6 | 28-Jul 00:01 | 12.0 | 7.54E+04 | 1.63E+04 | 4.59E+03 | 4.28E+03 | 6.20E+03 | 4.73E+03 | n.m. | n.m. | 1.12E+05 |
| 7 | 28-Jul 02:00 | 14.0 | 6.32E+04 | 1.76E+04 | 7.28E+03 | 5.56E+03 | 6.93E+03 | 4.27E+03 | n.m. | n.m. | 1.05E+05 |
| 8 | 28-Jul 04:00 | 16.0 | 3.45E+04 | 5.18E+03 | 2.73E+03 | 2.97E+03 | 3.86E+03 | 2.39E+03 | n.m. | n.m. | 5.16E+04 |
| 9 | 28-Jul 05:59 | 18.0 | 7.28E+04 | 1.46E+04 | 8.00E+03 | 6.87E+03 | 6.20E+03 | 2.82E+03 | n.m. | n.m. | 1.11E+05 |
| 10 | 28-Jul 07:58 | 20.0 | 8.94E+04 | 8.28E+03 | 3.56E+03 | 3.19E+03 | 4.55E+03 | 2.88E+03 | n.m. | n.m. | 1.12E+05 |
| 11 | 28-Jul 09:58 | 22.0 | 1.69E+05 | 4.22E+04 | 5.81E+03 | 2.96E+03 | 2.02E+03 | 2.53E+03 | n.m. | n.m. | 2.25E+05 |
| 12 | 28-Jul 11:58 | 24.0 | 1.34E+05 | 1.66E+04 | 3.41E+03 | 2.81E+03 | 1.76E+03 | 2.94E+03 | n.m. | n.m. | 1.61E+05 |
| 13 | 28-Jul 13:59 | 26.0 | 8.29E+04 | 7.15E+03 | 3.26E+03 | 3.59E+03 | 3.60E+03 | 2.53E+03 | n.m. | n.m. | 1.03E+05 |
| 14 | 28-Jul 15:45 | 27.8 | 1.01E+05 | 1.56E+04 | 4.75E+03 | 3.50E+03 | 4.42E+03 | 3.98E+03 | n.m. | n.m. | 1.33E+05 |
| 15 | 28-Jul 16:44 | 28.7 | 9.54E+04 | 1.75E+04 | 5.20E+03 | 4.05E+03 | 2.06E+03 | 3.03E+03 | n.m. | n.m. | 1.27E+05 |
| 16 | 28-Jul 17:59 | 30.0 | 8.16E+04 | 8.14E+03 | 4.96E+03 | 4.39E+03 | 4.16E+03 | 3.33E+03 | n.m. | n.m. | 1.07E+05 |
| 17 | 29-Jul 09:59 | 46.0 | 2.94E+05 | 3.84E+04 | 5.50E+03 | 3.14E+03 | 4.83E+03 | 2.79E+03 | n.m. | n.m. | 3.49E+05 |
| 18 | 29-Jul 13:59 | 50.0 | 2.39E+05 | 1.75E+04 | 4.22E+03 | 2.92E+03 | 3.20E+03 | 2.70E+03 | n.m. | n.m. | 2.69E+05 |
| 19 | 29-Jul 17:59 | 54.0 | 5.33E+05 | 9.30E+04 | 1.35E+04 | 7.04E+03 | 9.32E+03 | 4.85E+03 | n.m. | n.m. | 6.61E+05 |
| 20 | 30-Jul 09:59 | 70.0 | 1.03E+06 | 1.67E+05 | 2.03E+04 | 5.62E+03 | 3.90E+03 | 2.43E+03 | n.m. | n.m. | 1.23E+06 |
| 21 | 30-Jul 13:59 | 74.0 | 1.09E+06 | 2.19E+05 | 2.95E+04 | 7.26E+03 | 5.07E+03 | 3.56E+03 | n.m. | n.m. | 1.36E+06 |
| 22 | 30-Jul 18:00 | 78.0 | 7.84E+05 | 2.22E+05 | 2.08E+04 | 4.89E+03 | 4.51E+03 | 3.62E+03 | n.m. | n.m. | 1.04E+06 |
| 23 | 31-Jul 09:59 | 94.0 | 7.02E+05 | 1.35E+05 | 1.82E+04 | 7.03E+03 | 7.44E+03 | 5.64E+03 | n.m. | n.m. | 8.76E+05 |
| 24 | 1-Aug 10:00 | 118.0 | 1.03E+06 | 2.42E+05 | 4.12E+04 | 8.35E+03 | 5.01E+03 | 4.77E+03 | n.m. | n.m. | 1.33E+06 |
| 25 | 1-Aug 13:59 | 122.0 | 1.13E+06 | 4.11E+05 | 4.71E+04 | 8.22E+03 | 6.70E+03 | 4.27E+03 | n.m. | n.m. | 1.60E+06 |
| 26 | 1-Aug 17:59 | 126.0 | 7.73E+05 | 3.76E+05 | 9.53E+04 | 3.35E+04 | 3.07E+04 | 3.15E+04 | n.m. | n.m. | 1.34E+06 |
| 27 | 3-Aug 10:01 | 166.0 | 7.60E+05 | 3.51E+05 | 1.03E+05 | 4.06E+04 | 3.55E+04 | 3.07E+04 | 2.76E+04 | 2.62E+04 | 1.37E+06 |
| 28 | 3-Aug 14:01 | 170.0 | 6.80E+05 | 3.54E+05 | 1.09E+05 | 4.39E+04 | 3.55E+04 | 2.54E+04 | 2.45E+04 | 2.47E+04 | 1.30E+06 |

n.m.: not measured

Table C.15 HTO deposit to soil at furrow in Plot 3 (cont'd)

| No. | Sampling time | Elapsed time (h) | HTO deposit at each depth (Bq/m$^2$) | | | | | | | | Total deposit (Bq/m$^2$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm | 20-25cm | 25-30cm | |
| 29 | 3-Aug 18:11 | 174.2 | 7.30E+05 | 3.17E+05 | 9.82E+04 | 4.11E+04 | 2.45E+04 | 3.08E+04 | 2.59E+04 | 3.21E+04 | 1.30E+06 |
| 30 | 4-Aug 10:01 | 190.0 | 9.45E+05 | 6.72E+05 | 2.25E+05 | 1.01E+05 | 7.32E+04 | 3.49E+04 | 3.16E+04 | n.m. | 2.08E+06 |
| 31 | 4-Aug 14:06 | 194.1 | 7.19E+05 | 5.77E+05 | 2.38E+05 | 5.73E+04 | 9.52E+04 | 1.51E+04 | n.m. | n.m. | 1.70E+06 |
| 32 | 4-Aug 18:01 | 198.0 | 6.03E+05 | 1.58E+06 | 6.34E+05 | 1.95E+05 | 7.73E+04 | 2.97E+04 | 2.73E+04 | n.m. | 3.15E+06 |
| 33 | 5-Aug 10:00 | 214.0 | 7.21E+05 | 7.90E+05 | 5.90E+05 | 2.46E+05 | 1.25E+05 | 2.69E+04 | 2.39E+04 | 1.78E+04 | 2.54E+06 |
| 34 | 5-Aug 14:01 | 218.0 | 7.07E+05 | 6.08E+05 | 4.18E+05 | 1.54E+05 | 7.25E+04 | 2.70E+04 | 3.49E+04 | n.m. | 2.02E+06 |
| 35 | 5-Aug 18:04 | 222.1 | 7.74E+05 | 6.63E+05 | 4.47E+05 | 1.90E+05 | 9.18E+04 | 2.72E+04 | 3.29E+04 | n.m. | 2.23E+06 |
| 36 | 6-Aug 10:00 | 238.0 | 9.03E+05 | 5.94E+05 | 3.61E+05 | 1.84E+05 | 8.87E+04 | 2.51E+04 | 2.14E+04 | 2.13E+04 | 2.20E+06 |
| 37 | 6-Aug 12:00 | 240.0 | 1.07E+06 | 5.59E+05 | 2.99E+05 | 1.10E+05 | 4.77E+04 | 2.87E+04 | 2.77E+04 | 3.00E+04 | 2.18E+06 |
| 38 | 6-Aug 14:00 | 242.0 | 1.13E+06 | 6.58E+05 | 3.53E+05 | 1.59E+05 | 8.52E+04 | 3.47E+04 | 3.04E+04 | 5.16E+03 | 2.46E+06 |
| 39 | 6-Aug 16:00 | 244.0 | 1.12E+06 | 6.04E+05 | 4.15E+05 | 2.03E+05 | 1.20E+05 | 3.57E+04 | 3.12E+04 | 2.58E+04 | 2.55E+06 |
| 40 | 6-Aug 18:00 | 246.0 | 1.18E+06 | 6.17E+05 | 3.54E+05 | 1.64E+05 | 1.04E+05 | 3.16E+04 | 2.52E+04 | 3.43E+04 | 2.51E+06 |
| 41 | 6-Aug 19:59 | 248.0 | 1.28E+06 | 6.93E+05 | 4.63E+05 | 2.35E+05 | 1.02E+05 | 3.25E+04 | 4.02E+04 | 2.42E+04 | 2.87E+06 |
| 42 | 6-Aug 21:59 | 250.0 | 1.20E+06 | 7.91E+05 | 5.40E+05 | 2.24E+05 | 1.03E+05 | 2.86E+04 | 2.52E+04 | 3.27E+04 | 2.95E+06 |
| 43 | 7-Aug 02:01 | 254.0 | 1.21E+06 | 8.45E+05 | 4.83E+05 | 2.76E+05 | 1.56E+05 | 4.02E+04 | 2.30E+04 | 2.19E+04 | 3.05E+06 |
| 44 | 7-Aug 06:02 | 258.0 | 1.21E+06 | 8.33E+05 | 8.26E+05 | 6.70E+05 | 3.53E+05 | 5.10E+04 | 3.01E+04 | 2.83E+04 | 4.00E+06 |
| 45 | 7-Aug 08:00 | 260.0 | 1.82E+06 | 7.85E+05 | 3.66E+05 | 1.58E+05 | 5.63E+04 | 3.00E+04 | 2.64E+04 | 3.57E+04 | 3.28E+06 |
| 46 | 7-Aug 10:00 | 262.0 | 1.45E+06 | 9.63E+05 | 9.71E+05 | 1.22E+06 | 3.09E+05 | 4.98E+04 | 3.50E+04 | 2.50E+04 | 5.02E+06 |
| 47 | 7-Aug 12:00 | 264.0 | 1.61E+06 | 8.17E+05 | 4.18E+05 | 1.87E+05 | 1.08E+05 | 3.10E+04 | 2.75E+04 | 3.30E+04 | 3.23E+06 |
| 48 | 7-Aug 14:06 | 266.1 | 2.78E+06 | 1.96E+06 | 1.82E+06 | 1.19E+06 | 8.01E+05 | 1.74E+05 | 9.71E+04 | 7.38E+04 | 8.90E+06 |
| 49 | 7-Aug 16:01 | 268.0 | 1.28E+06 | 8.15E+05 | 5.24E+05 | 2.68E+05 | 1.86E+05 | 1.52E+05 | 1.22E+05 | 1.59E+05 | 3.50E+06 |
| 50 | 7-Aug 17:59 | 270.0 | 1.79E+06 | 1.27E+06 | 9.61E+05 | 5.10E+05 | 3.03E+05 | 1.31E+05 | 1.04E+05 | 9.75E+04 | 5.17E+06 |
| 51 | 8-Aug 10:00 | 286.0 | 1.50E+06 | 9.11E+05 | 7.22E+05 | 5.30E+05 | 5.32E+05 | 2.02E+05 | 1.30E+05 | 1.22E+05 | 4.65E+06 |
| 52 | 8-Aug 12:00 | 288.0 | 1.67E+06 | 6.70E+05 | 3.81E+05 | 2.34E+05 | 1.60E+05 | 1.52E+05 | 1.80E+05 | 1.27E+05 | 3.57E+06 |
| 53 | 8-Aug 14:00 | 290.0 | 1.66E+06 | 8.85E+05 | 4.21E+05 | 2.49E+05 | 1.91E+05 | 1.44E+05 | 1.34E+05 | 1.26E+05 | 3.81E+06 |
| 54 | 8-Aug 16:07 | 292.1 | 3.74E+06 | 2.47E+06 | 1.39E+06 | 6.60E+05 | 3.85E+05 | 1.54E+05 | 1.01E+05 | 9.26E+04 | 8.99E+06 |
| 55 | 8-Aug 18:00 | 294.0 | 1.62E+06 | 7.45E+05 | 5.05E+05 | 3.35E+05 | 3.13E+05 | 2.29E+05 | 1.56E+05 | 1.79E+05 | 4.08E+06 |
| 56 | 8-Aug 20:00 | 296.0 | 1.56E+06 | 7.26E+05 | 5.04E+05 | 3.25E+05 | 2.98E+05 | 1.93E+05 | 1.70E+05 | 1.44E+05 | 3.93E+06 |
| 57 | 9-Aug 08:01 | 308.0 | 1.75E+06 | 1.29E+06 | 9.25E+05 | 5.71E+05 | 4.46E+05 | 1.91E+05 | 1.84E+05 | 1.33E+05 | 5.49E+06 |
| 58 | 9-Aug 12:00 | 312.0 | 1.65E+06 | 1.36E+06 | 6.40E+05 | 4.10E+05 | 2.73E+05 | 1.72E+05 | 1.92E+05 | 1.62E+05 | 4.86E+06 |
| 59 | 9-Aug 16:01 | 316.0 | 2.26E+06 | 1.44E+06 | 7.55E+05 | 4.49E+05 | 3.73E+05 | 2.47E+05 | 1.61E+05 | 1.29E+05 | 5.82E+06 |

n.m.: not measured

Table C.16 HTO specific activity of soil water at furrow in Plot 3

| No. | Sampling time | Elapsed time (h) | HTO specific activity in soil water (Bq/ml) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm | 20-25cm | 25-30cm |
| BG1 | 26-Jul 11:02 | -25.0 | 7.61E-02 | 1.86E-01 | 1.86E-01 | 1.38E-01 | 4.38E-02 | 4.26E-02 | 5.76E-02 | 6.05E-02 |
| BG2 | 26-Jul 18:46 | -17.2 | 8.60E-02 | 3.50E-01 | 1.86E-01 | 1.73E-01 | 8.52E-02 | 7.14E-02 | 1.30E-01 | n.m. |
| BG3 | 26-Jul 19:09 | -16.8 | 3.45E-01 | 3.27E-01 | 2.19E-01 | 2.29E-01 | 1.28E-01 | 3.69E-01 | n.m. | n.m. |
| 1 | 27-Jul 14:00 | 2.0 | 9.36E-01 | 3.99E-01 | 2.41E-01 | 2.61E-01 | 2.01E-01 | 1.01E-01 | n.m. | n.m. |
| 2 | 27-Jul 16:00 | 4.0 | 6.71E-01 | 3.62E-01 | 3.00E-01 | 3.75E-01 | 1.73E-01 | 1.26E-01 | n.m. | n.m. |
| 3 | 27-Jul 18:00 | 6.0 | 1.37E+00 | 3.01E-01 | 2.81E-01 | 2.23E-01 | 2.99E-02 | 1.36E-01 | n.m. | n.m. |
| 4 | 27-Jul 20:00 | 8.0 | 2.18E+00 | 3.79E-01 | 3.39E-01 | 2.53E-01 | 1.63E-01 | 2.06E-01 | n.m. | n.m. |
| 5 | 27-Jul 22:00 | 10.0 | 1.14E+01 | 2.62E+00 | 7.57E-01 | 3.98E-01 | 2.55E-01 | 1.58E-01 | n.m. | n.m. |
| 6 | 28-Jul 00:01 | 12.0 | 7.49E+00 | 1.45E+00 | 4.90E-01 | 3.93E-01 | 2.87E-01 | 2.39E-01 | n.m. | n.m. |
| 7 | 28-Jul 02:00 | 14.0 | 6.60E+00 | 1.54E+00 | 7.58E-01 | 5.22E-01 | 3.38E-01 | 2.05E-01 | n.m. | n.m. |
| 8 | 28-Jul 04:00 | 16.0 | 3.06E+00 | 4.45E-01 | 2.65E-01 | 2.94E-01 | 1.85E-01 | 1.11E-01 | n.m. | n.m. |
| 9 | 28-Jul 05:59 | 18.0 | 6.88E+00 | 1.21E+00 | 7.90E-01 | 6.56E-01 | 3.24E-01 | 1.23E-01 | n.m. | n.m. |
| 10 | 28-Jul 07:58 | 20.0 | 8.02E+00 | 8.11E-01 | 3.46E-01 | 3.33E-01 | 2.46E-01 | 1.33E-01 | n.m. | n.m. |
| 11 | 28-Jul 09:58 | 22.0 | 2.01E+01 | 3.40E+00 | 5.28E-01 | 2.99E-01 | 9.97E-02 | 1.23E-01 | n.m. | n.m. |
| 12 | 28-Jul 11:58 | 24.0 | 1.35E+01 | 1.38E+00 | 3.62E-01 | 3.07E-01 | 9.51E-02 | 1.45E-01 | n.m. | n.m. |
| 13 | 28-Jul 13:59 | 26.0 | 7.54E+00 | 6.80E-01 | 3.33E-01 | 3.55E-01 | 2.04E-01 | 1.18E-01 | n.m. | n.m. |
| 14 | 28-Jul 15:45 | 27.8 | 9.55E+00 | 1.55E+00 | 4.46E-01 | 3.82E-01 | 2.20E-01 | 1.87E-01 | n.m. | n.m. |
| 15 | 28-Jul 16:44 | 28.7 | 9.48E+00 | 1.66E+00 | 5.16E-01 | 4.11E-01 | 1.09E-01 | 1.36E-01 | n.m. | n.m. |
| 16 | 28-Jul 17:59 | 30.0 | 7.29E+00 | 8.63E-01 | 5.07E-01 | 5.19E-01 | 2.09E-01 | 1.58E-01 | n.m. | n.m. |
| 17 | 29-Jul 09:59 | 46.0 | 3.00E+01 | 5.13E+00 | 7.96E-01 | 3.04E-01 | 2.40E-01 | 1.27E-01 | n.m. | n.m. |
| 18 | 29-Jul 13:59 | 50.0 | 2.20E+01 | 1.91E+00 | 4.63E-01 | 3.14E-01 | 1.66E-01 | 1.27E-01 | n.m. | n.m. |
| 19 | 29-Jul 17:59 | 54.0 | 4.70E+01 | 8.58E+00 | 1.44E+00 | 7.33E-01 | 4.85E-01 | 2.22E-01 | n.m. | n.m. |
| 20 | 30-Jul 09:59 | 70.0 | 1.07E+02 | 1.56E+01 | 1.96E+00 | 6.12E-01 | 2.07E-01 | 1.12E-01 | n.m. | n.m. |
| 21 | 30-Jul 13:59 | 74.0 | 1.01E+02 | 2.28E+01 | 3.26E+00 | 7.68E-01 | 2.74E-01 | 1.62E-01 | n.m. | n.m. |
| 22 | 30-Jul 18:00 | 78.0 | 7.71E+01 | 1.99E+01 | 1.97E+00 | 4.59E-01 | 2.21E-01 | 1.58E-01 | n.m. | n.m. |
| 23 | 31-Jul 09:59 | 94.0 | 5.99E+01 | 1.29E+01 | 2.03E+00 | 7.49E-01 | 4.18E-01 | 2.64E-01 | n.m. | n.m. |
| 24 | 1-Aug 10:00 | 118.0 | 9.99E+01 | 2.26E+01 | 4.25E+00 | 8.91E-01 | 2.71E-01 | 2.45E-01 | n.m. | n.m. |
| 25 | 1-Aug 13:59 | 122.0 | 1.07E+02 | 3.78E+01 | 4.81E+00 | 8.62E-01 | 3.88E-01 | 2.31E-01 | n.m. | n.m. |
| 26 | 1-Aug 17:59 | 126.0 | 6.68E+01 | 3.36E+01 | 8.96E+00 | 3.53E+00 | 1.57E+00 | 1.57E+00 | n.m. | n.m. |
| 27 | 3-Aug 10:01 | 166.0 | 6.94E+01 | 3.07E+01 | 9.97E+00 | 4.40E+00 | 1.89E+00 | 1.62E+00 | 1.44E+00 | 1.46E+00 |
| 28 | 3-Aug 14:01 | 170.0 | 6.63E+01 | 3.07E+01 | 1.12E+01 | 4.54E+00 | 1.95E+00 | 1.82E+00 | 1.33E+00 | 1.39E+00 |

n.m.: not measured

Table C.16 HTO specific activity of soil water at furrow in Plot 3 (cont'd)

| No. | Sampling time | Elapsed time (h) | HTO specific activity in soil water (Bq/ml) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm | 20-25cm | 25-30cm |
| 29 | 3-Aug 18:11 | 174.2 | 6.84E+01 | 3.09E+01 | 1.02E+01 | 4.30E+00 | 1.45E+00 | 1.47E+00 | 1.29E+00 | 1.61E+00 |
| 30 | 4-Aug 10:01 | 190.0 | 8.43E+01 | 5.94E+01 | 2.52E+01 | 1.07E+01 | 3.30E+00 | 1.57E+00 | 1.57E+00 | n.m. |
| 31 | 4-Aug 14:06 | 194.1 | 6.32E+01 | 5.48E+01 | 1.98E+01 | 5.68E+00 | 5.21E+00 | 8.22E+00 | n.m. | n.m. |
| 32 | 4-Aug 18:01 | 198.0 | 4.85E+01 | 1.21E+02 | 6.09E+01 | 1.76E+01 | 3.73E+00 | 1.34E+00 | 1.28E+00 | n.m. |
| 33 | 5-Aug 10:00 | 214.0 | 6.39E+01 | 6.89E+01 | 5.98E+01 | 2.48E+01 | 5.51E+00 | 1.11E+00 | 9.95E-01 | 8.22E-01 |
| 34 | 5-Aug 14:01 | 218.0 | 6.51E+01 | 5.97E+01 | 4.06E+01 | 1.65E+01 | 3.50E+00 | 1.19E+00 | 1.64E+00 | n.m. |
| 35 | 5-Aug 18:04 | 222.1 | 6.83E+01 | 5.61E+01 | 4.27E+01 | 1.92E+01 | 4.10E+00 | 1.17E+00 | 1.57E+00 | n.m. |
| 36 | 6-Aug 10:00 | 238.0 | 7.99E+01 | 5.39E+01 | 3.89E+01 | 1.98E+01 | 4.29E+00 | 1.12E+00 | 9.75E-01 | 1.13E+00 |
| 37 | 6-Aug 12:00 | 240.0 | 9.50E+01 | 4.96E+01 | 2.70E+01 | 1.06E+01 | 2.23E+00 | 1.29E+00 | 1.27E+00 | 1.56E+00 |
| 38 | 6-Aug 14:00 | 242.0 | 9.67E+01 | 5.05E+01 | 3.66E+01 | 1.73E+01 | 4.27E+00 | 1.78E+00 | 1.20E+00 | 7.33E+00 |
| 39 | 6-Aug 16:00 | 244.0 | 1.03E+02 | 5.60E+01 | 4.10E+01 | 2.09E+01 | 6.13E+00 | 1.59E+00 | 1.52E+00 | 1.31E+00 |
| 40 | 6-Aug 18:00 | 246.0 | 9.87E+01 | 5.70E+01 | 3.50E+01 | 1.67E+01 | 5.13E+00 | 1.34E+00 | 1.21E+00 | 2.13E+00 |
| 41 | 6-Aug 19:59 | 248.0 | 1.05E+02 | 6.52E+01 | 4.89E+01 | 2.34E+01 | 5.01E+00 | 1.50E+00 | 1.90E+00 | 1.24E+00 |
| 42 | 6-Aug 21:59 | 250.0 | 1.16E+02 | 7.73E+01 | 5.38E+01 | 2.38E+01 | 4.91E+00 | 1.30E+00 | 1.13E+00 | 1.74E+00 |
| 43 | 7-Aug 02:01 | 254.0 | 1.11E+02 | 6.91E+01 | 4.72E+01 | 2.65E+01 | 7.48E+00 | 1.78E+00 | 1.09E+00 | 2.33E+00 |
| 44 | 7-Aug 06:02 | 258.0 | 1.09E+02 | 8.82E+01 | 9.10E+01 | 6.89E+01 | 1.84E+01 | 2.29E+00 | 1.43E+00 | 1.47E+00 |
| 45 | 7-Aug 08:00 | 260.0 | 1.51E+02 | 7.79E+01 | 4.08E+01 | 1.81E+01 | 3.24E+00 | 1.44E+00 | 1.39E+00 | 2.00E+00 |
| 46 | 7-Aug 10:00 | 262.0 | 1.49E+02 | 1.05E+02 | 9.97E+01 | 1.36E+02 | 1.55E+01 | 2.25E+00 | 1.62E+00 | 1.26E+00 |
| 47 | 7-Aug 12:00 | 264.0 | 1.43E+02 | 8.46E+01 | 4.68E+01 | 2.32E+01 | 5.63E+00 | 1.61E+00 | 1.37E+00 | 1.61E+00 |
| 48 | 7-Aug 14:06 | 266.1 | 3.32E+02 | 2.27E+02 | 2.09E+02 | 1.32E+02 | 4.27E+01 | 8.11E+00 | 4.14E+00 | 3.49E+00 |
| 49 | 7-Aug 16:01 | 268.0 | 1.39E+02 | 7.74E+01 | 5.07E+01 | 3.06E+01 | 9.88E+00 | 6.71E+00 | 5.48E+00 | 7.07E+00 |
| 50 | 7-Aug 17:59 | 270.0 | 1.83E+02 | 1.30E+02 | 8.76E+01 | 5.37E+01 | 1.47E+01 | 5.76E+00 | 4.70E+00 | 4.10E+00 |
| 51 | 8-Aug 10:00 | 286.0 | 1.69E+02 | 1.09E+02 | 8.13E+01 | 5.85E+01 | 2.53E+01 | 9.53E+00 | 6.10E+00 | 6.50E+00 |
| 52 | 8-Aug 12:00 | 288.0 | 1.43E+02 | 7.09E+01 | 4.18E+01 | 2.69E+01 | 8.58E+00 | 6.29E+00 | 8.67E+00 | 5.90E+00 |
| 53 | 8-Aug 14:00 | 290.0 | 1.83E+02 | 8.79E+01 | 4.95E+01 | 2.90E+01 | 9.23E+00 | 6.68E+00 | 6.33E+00 | 6.07E+00 |
| 54 | 8-Aug 16:07 | 292.1 | 4.53E+02 | 2.70E+02 | 1.45E+02 | 7.18E+01 | 1.91E+01 | 6.71E+00 | 4.54E+00 | 4.54E+00 |
| 55 | 8-Aug 18:00 | 294.0 | 1.60E+02 | 8.12E+01 | 5.74E+01 | 3.76E+01 | 1.78E+01 | 1.13E+01 | 7.45E+00 | 8.46E+00 |
| 56 | 8-Aug 20:00 | 296.0 | 1.61E+02 | 8.68E+01 | 5.97E+01 | 3.81E+01 | 1.59E+01 | 9.53E+00 | 7.69E+00 | 6.77E+00 |
| 57 | 9-Aug 08:01 | 308.0 | 1.77E+02 | 1.43E+02 | 1.02E+02 | 6.55E+01 | 2.21E+01 | 9.36E+00 | 9.10E+00 | 6.82E+00 |
| 58 | 9-Aug 12:00 | 312.0 | 1.74E+02 | 1.21E+02 | 7.13E+01 | 4.54E+01 | 1.36E+01 | 8.49E+00 | 9.70E+00 | 8.12E+00 |
| 59 | 9-Aug 16:01 | 316.0 | 2.19E+02 | 1.49E+02 | 9.25E+01 | 5.58E+01 | 2.12E+01 | 1.23E+01 | 8.05E+00 | 7.26E+00 |

n.m.: not measured

Table C.17 HTO specific activity of soil water at ridge in Plot 3

| No. | Sampling time | Elapsed time (h) | HTO specific activity in soil water (Bq/ml) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-12.5cm | 12.5-15cm | 15-17.5cm | 17.5-20cm |
| BG1 | 26-Jul 17:40 | -18.3 | 3.36E-01 | 1.34E+00 | 9.87E-01 | 2.87E-01 | 1.69E-01 | 2.28E-01 | 1.54E-01 | 2.33E+00 |
| 1 | 27-Jul 14:25 | 2.4 | 1.11E+00 | 4.13E-01 | 6.50E-01 | 1.91E-01 | 7.98E-01 | 4.77E-01 | 2.45E-01 | 1.23E-01 |
| 2 | 27-Jul 17:05 | 5.1 | 4.19E+00 | 1.62E+00 | 1.04E+00 | 1.25E-01 | 1.22E-02 | 2.65E-01 | 3.51E-01 | 4.90E-01 |
| 3 | 27-Jul 20:10 | 8.2 | 2.80E+00 | 8.75E-01 | 1.07E+00 | 5.97E-01 | 3.17E-01 | 1.25E-01 | 9.70E-01 | 4.46E-01 |
| 4 | 27-Jul 23:25 | 11.4 | 5.25E+00 | 1.68E+00 | 5.17E-01 | 2.23E-01 | 2.25E-01 | 1.72E-01 | 1.07E-01 | 2.72E-01 |
| 5 | 28-Jul 03:15 | 15.2 | 1.03E+01 | 7.96E+00 | 3.09E+00 | 9.89E-01 | 6.43E-01 | 6.44E-02 | 1.16E-01 | 9.28E-02 |
| 6 | 28-Jul 07:20 | 19.3 | 2.12E+01 | 6.13E+00 | 1.33E+00 | 4.52E-01 | 2.65E-01 | 2.82E-01 | 1.50E-01 | 8.87E-01 |
| 7 | 28-Jul 12:00 | 24.0 | 1.35E+01 | 4.57E+00 | 6.31E-01 | 3.21E-01 | 1.79E-01 | 2.15E-01 | 3.29E-01 | 2.56E-01 |
| 8 | 28-Jul 17:30 | 29.5 | 6.61E+01 | 3.83E+01 | 2.24E+01 | 7.44E+00 | 2.63E+00 | 7.14E-01 | 2.82E-01 | 2.19E-01 |
| 9 | 29-Jul 09:55 | 45.9 | 1.40E+02 | 1.55E+02 | 2.16E+01 | 3.54E+00 | 5.79E-01 | 2.62E-01 | 3.19E-01 | 2.23E-01 |
| 10 | 29-Jul 14:00 | 50.0 | 1.72E+02 | 8.24E+01 | 1.43E+01 | 2.52E+00 | 7.70E-01 | 2.79E-01 | 1.39E-01 | 3.60E-01 |
| 11 | 29-Jul 17:55 | 53.9 | 2.28E+02 | 5.14E+01 | 5.84E+00 | 8.90E-01 | 1.90E-01 | 1.04E-01 | 3.82E-01 | 3.23E-01 |
| 12 | 30-Jul 14:00 | 74.0 | 1.07E+02 | 8.38E+01 | 1.59E+01 | 1.78E+00 | 5.11E-01 | 2.95E-01 | 1.53E-01 | 1.83E-01 |
| 13 | 1-Aug 14:10 | 122.2 | 8.08E+01 | 2.11E+01 | 2.58E+00 | 6.34E-01 | 3.32E-01 | 4.07E-02 | 2.00E-01 | 2.67E-01 |
| 14 | 3-Aug 14:05 | 170.1 | 2.09E+02 | 2.18E+02 | 1.53E+02 | 5.93E+01 | 4.92E+00 | 1.63E+01 | 1.33E+00 | 2.75E+00 |
| 15 | 5-Aug 14:00 | 218.0 | 6.36E+01 | 7.02E+01 | 1.38E+02 | 1.46E+02 | 8.76E+01 | 5.79E+01 | 7.24E+01 | n.m. |
| 16 | 6-Aug 13:40 | 241.7 | 2.90E+02 | 1.63E+02 | 1.35E+02 | 1.13E+02 | 9.07E+01 | 5.86E+01 | 2.40E+01 | 1.06E+01 |
| 17 | 7-Aug 14:00 | 266.0 | 3.17E+02 | 2.17E+02 | 2.04E+02 | 1.53E+02 | 5.59E+01 | 1.48E+01 | 3.92E+00 | 2.11E+00 |
| 18 | 8-Aug 14:00 | 290.0 | 2.93E+02 | 1.79E+02 | 1.08E+02 | 3.20E+01 | 1.34E+01 | 3.40E+00 | 1.12E+00 | 1.17E+00 |
| 19 | 9-Aug 14:00 | 314.0 | 4.67E+02 | 4.04E+02 | 1.96E+02 | 7.16E+01 | 2.12E+01 | 6.13E+00 | 1.71E+00 | 8.70E-01 |

n.m.: not measured

Table C.18 HTO deposit to soil in the natural plot (Plot 4)

| No. | Sampling time | Elapsed time (h) | HTO deposit at each depth (Bq/m$^2$) [a] | | | | | | Total deposit (Bq/m$^2$) |
|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm | |
| BG | 26-Jul 19:36 | -16.4 | 7.27E+03 | 1.08E+04 | 7.78E+03 | | n.m. | n.m. | 2.58E+04 |
| 1 | 28-Jul 10:00 | 22.0 | 4.15E+06 | 2.52E+05 | 2.26E+04 | | n.m. | n.m. | 4.42E+06 |
| 2 | 31-Jul 10:04 | 94.1 | 7.94E+06 | 2.95E+06 | 5.80E+05 | 7.14E+04 | 1.80E+04 | 1.36E+04 | 1.16E+07 |
| 3 | 3-Aug 10:03 | 166.1 | 6.64E+06 | 6.97E+06 | 3.16E+06 | 7.85E+05 | 2.19E+05 | 2.95E+04 | 1.78E+07 |
| 4 | 6-Aug 18:02 | 246.0 | 9.58E+06 | 6.36E+06 | 6.45E+06 | 5.71E+06 | 4.49E+06 | 3.61E+05 | 3.29E+07 |
| 5 | 7-Aug 06:06 | 258.1 | 4.51E+06 | 5.09E+06 | 4.23E+06 | 2.79E+06 | 2.49E+06 | 5.89E+05 | 1.97E+07 |
| 6 | 7-Aug 12:04 | 264.1 | 7.25E+06 | 4.47E+06 | 1.91E+06 | 2.33E+06 | 5.24E+06 | 1.19E+06 | 2.24E+07 |
| 7 | 7-Aug 18:05 | 270.1 | 1.34E+07 | 9.90E+06 | 4.57E+06 | 2.20E+06 | 1.36E+06 | 2.69E+05 | 3.17E+07 |
| 8 | 8-Aug 12:03 | 288.1 | 1.38E+07 | 8.36E+06 | 4.83E+06 | 2.30E+06 | 1.32E+06 | 2.11E+05 | 3.08E+07 |
| 9 | 8-Aug 18:03 | 294.1 | 8.63E+06 | 8.09E+06 | 4.49E+06 | 3.31E+06 | 2.55E+06 | 3.88E+05 | 2.75E+07 |
| 10 | 9-Aug 08:03 | 308.1 | 7.82E+06 | 9.58E+06 | 5.54E+06 | 3.45E+06 | 2.00E+06 | 2.93E+05 | 2.87E+07 |
| 11 | 9-Aug 12:02 | 312.0 | 8.12E+06 | 1.28E+07 | 8.67E+06 | 4.97E+06 | 3.34E+06 | 4.30E+05 | 3.83E+07 |
| 12 | 9-Aug 16:03 | 316.1 | 7.77E+06 | 9.10E+06 | 6.65E+06 | 5.28E+06 | 4.92E+06 | 7.49E+05 | 3.45E+07 |

[a] The soil cores of BG and No.1 were sectioned into three segments (0-2.5, 2.5-5 and 5-10 cm).

n.m.: not measured

Table C.19 HTO specific activity of soil water in the natural plot (Plot 4)

| No. | Sampling time | Elapsed time (h) | HTO specific activity (Bq/ml) [a] | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm |
| BG | 26-Jul 19:36 | -16.4 | 6.96E-01 | 1.32E+00 | 4.26E-01 | | n.m. | n.m. |
| 1 | 28-Jul 10:00 | 22.0 | 4.42E+02 | 2.67E+01 | 1.09E+00 | | n.m. | n.m. |
| 2 | 31-Jul 10:04 | 94.1 | 8.14E+02 | 3.33E+02 | 6.10E+01 | 6.84E+00 | 9.05E-01 | 6.89E-01 |
| 3 | 3-Aug 10:03 | 166.1 | 1.05E+03 | 8.78E+02 | 3.33E+02 | 8.91E+01 | 1.03E+01 | 1.44E+00 |
| 4 | 6-Aug 18:02 | 246.0 | 1.05E+03 | 6.76E+02 | 6.78E+02 | 5.59E+02 | 2.29E+02 | 1.89E+01 |
| 5 | 7-Aug 06:06 | 258.1 | 6.69E+02 | 5.72E+02 | 4.24E+02 | 2.98E+02 | 1.26E+02 | 3.13E+01 |
| 6 | 7-Aug 12:04 | 264.1 | 1.16E+03 | 4.96E+02 | 2.05E+02 | 2.45E+02 | 2.62E+02 | 6.06E+01 |
| 7 | 7-Aug 18:05 | 270.1 | 2.16E+03 | 1.08E+03 | 5.10E+02 | 2.40E+02 | 6.99E+01 | 1.31E+01 |
| 8 | 8-Aug 12:03 | 288.1 | 2.14E+03 | 9.75E+02 | 5.23E+02 | 2.48E+02 | 7.04E+01 | 1.00E+01 |
| 9 | 8-Aug 18:03 | 294.1 | 1.69E+03 | 9.31E+02 | 5.03E+02 | 3.40E+02 | 1.27E+02 | 2.02E+01 |
| 10 | 9-Aug 08:03 | 308.1 | 1.12E+03 | 1.02E+03 | 6.19E+02 | 3.22E+02 | 1.06E+02 | 1.47E+01 |
| 11 | 9-Aug 12:02 | 312.0 | 1.16E+03 | 1.40E+03 | 9.36E+02 | 4.95E+02 | 1.73E+02 | 2.16E+01 |
| 12 | 9-Aug 16:03 | 316.1 | 9.84E+02 | 9.61E+02 | 6.81E+02 | 5.33E+02 | 2.30E+02 | 3.46E+01 |

[a] The soil cores of BG and No.1 were sectioned into three segments (0-2.5, 2.5-5 and 5-10 cm).

n.m.: not measured

Table C.20 HTO deposit to soil at a distance of 50 m from the experimental plot

| No. | Sampling time | Elapsed time (h) | HTO deposit at each depth (Bq/m$^2$) [a)] | | | | | | Total deposit (Bq/m$^2$) |
|---|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm | |
| BG | 26-Jul 19:09 | -16.8 | 2.71E+03 | 3.02E+03 | 2.10E+03 | 2.05E+03 | 2.66E+03 | 1.40E+03 | 1.39E+04 |
| 1 | 30-Jul 14:35 | 74.6 | 1.13E+04 | 4.57E+03 | 2.29E+03 | 2.20E+03 | 2.07E+03 | 2.21E+03 | 2.46E+04 |

Table C.21 HTO specific activity of soil water at a distance of 50 m from the experimental plot

| No. | Sampling time | Elapsed time (h) | HTO specific activity (Bq/ml) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 0-2.5cm | 2.5-5cm | 5-7.5cm | 7.5-10cm | 10-15cm | 15-20cm |
| BG | 26-Jul 19:09 | -16.8 | 3.45E-01 | 3.27E-01 | 2.19E-01 | 2.29E-01 | 1.28E-01 | 3.69E-01 |
| 1 | 30-Jul 14:35 | 74.6 | 1.34E+00 | 3.97E-01 | 2.30E-01 | 2.05E-01 | 9.73E-02 | 9.49E-02 |

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# 国際単位系 (SI) と換算表

**表 1　SI 基本単位および補助単位**

| 量 | 名称 | 記号 |
|---|---|---|
| 長さ | メートル | m |
| 質量 | キログラム | kg |
| 時間 | 秒 | s |
| 電流 | アンペア | A |
| 熱力学温度 | ケルビン | K |
| 物質量 | モル | mol |
| 光度 | カンデラ | cd |
| 平面角 | ラジアン | rad |
| 立体角 | ステラジアン | sr |

**表 2　SI と併用される単位**

| 名称 | 記号 |
|---|---|
| 分，時，日 | min，h，d |
| 度，分，秒 | °，′，″ |
| リットル | l，L |
| トン | t |
| 電子ボルト | eV |
| 原子質量単位 | u |

$1\ \mathrm{eV} = 1.60218 \times 10^{-19}\ \mathrm{J}$

$1\ \mathrm{u} = 1.66054 \times 10^{-27}\ \mathrm{kg}$

**表 3　固有の名称をもつ SI 組立単位**

| 量 | 名称 | 記号 | 他の SI 単位による表現 |
|---|---|---|---|
| 周波数 | ヘルツ | Hz | $s^{-1}$ |
| 力 | ニュートン | N | $m \cdot kg/s^2$ |
| 圧力，応力 | パスカル | Pa | $N/m^2$ |
| エネルギー，仕事，熱量 | ジュール | J | N·m |
| 工率，放射束 | ワット | W | J/s |
| 電気量，電荷 | クーロン | C | A·s |
| 電位，電圧，起電力 | ボルト | V | W/A |
| 静電容量 | ファラド | F | C/V |
| 電気抵抗 | オーム | Ω | V/A |
| コンダクタンス | ジーメンス | S | A/V |
| 磁束 | ウェーバ | Wb | V·s |
| 磁束密度 | テスラ | T | $Wb/m^2$ |
| インダクタンス | ヘンリー | H | Wb/A |
| セルシウス温度 | セルシウス度 | ℃ | |
| 光束 | ルーメン | lm | cd·sr |
| 照度 | ルクス | lx | $lm/m^2$ |
| 放射能 | ベクレル | Bq | $s^{-1}$ |
| 吸収線量 | グレイ | Gy | J/kg |
| 線量当量 | シーベルト | Sv | J/kg |

**表 4　SI と共に暫定的に維持される単位**

| 名称 | 記号 |
|---|---|
| オングストローム | Å |
| バーン | b |
| バール | bar |
| ガル | Gal |
| キュリー | Ci |
| レントゲン | R |
| ラド | rad |
| レム | rem |

$1\ \text{Å} = 0.1\ \mathrm{nm} = 10^{-10}\ \mathrm{m}$

$1\ \mathrm{b} = 100\ \mathrm{fm}^2 = 10^{-28}\ \mathrm{m}^2$

$1\ \mathrm{bar} = 0.1\ \mathrm{MPa} = 10^5\ \mathrm{Pa}$

$1\ \mathrm{Gal} = 1\ \mathrm{cm/s}^2 = 10^{-2}\ \mathrm{m/s}^2$

$1\ \mathrm{Ci} = 3.7 \times 10^{10}\ \mathrm{Bq}$

$1\ \mathrm{R} = 2.58 \times 10^{-4}\ \mathrm{C/kg}$

$1\ \mathrm{rad} = 1\ \mathrm{cGy} = 10^{-2}\ \mathrm{Gy}$

$1\ \mathrm{rem} = 1\ \mathrm{cSv} = 10^{-2}\ \mathrm{Sv}$

**表 5　SI 接頭語**

| 倍数 | 接頭語 | 記号 |
|---|---|---|
| $10^{18}$ | エクサ | E |
| $10^{15}$ | ペタ | P |
| $10^{12}$ | テラ | T |
| $10^{9}$ | ギガ | G |
| $10^{6}$ | メガ | M |
| $10^{3}$ | キロ | k |
| $10^{2}$ | ヘクト | h |
| $10^{1}$ | デカ | da |
| $10^{-1}$ | デシ | d |
| $10^{-2}$ | センチ | c |
| $10^{-3}$ | ミリ | m |
| $10^{-6}$ | マイクロ | μ |
| $10^{-9}$ | ナノ | n |
| $10^{-12}$ | ピコ | p |
| $10^{-15}$ | フェムト | f |
| $10^{-18}$ | アト | a |

（注）

1. 表 1 — 5 は「国際単位系」第 5 版，国際度量衡局 1985 年刊行による。ただし，1 eV および 1 u の値は CODATA の 1986 年推奨値によった。
2. 表 4 には海里，ノット，アール，ヘクタールも含まれているが日常の単位なのでここでは省略した。
3. bar は，JIS では流体の圧力を表わす場合に限り表 2 のカテゴリーに分類されている。
4. EC 閣僚理事会指令では bar，barn および「血圧の単位」mmHg を表 2 のカテゴリーに入れている。

## 換　算　表

| 力 | N(=$10^5$dyn) | kgf | lbf |
|---|---|---|---|
| | 1 | 0.101972 | 0.224809 |
| | 9.80665 | 1 | 2.20462 |
| | 4.44822 | 0.453592 | 1 |

粘　度　1 Pa·s(N·s/$m^2$)=10 P(ポアズ)(g/(cm·s))

動粘度　1 $m^2$/s=$10^4$St(ストークス)($cm^2$/s)

| 圧力 | MPa(=10 bar) | kgf/$cm^2$ | atm | mmHg(Torr) | lbf/$in^2$(psi) |
|---|---|---|---|---|---|
| | 1 | 10.1972 | 9.86923 | $7.50062 \times 10^3$ | 145.038 |
| | 0.0980665 | 1 | 0.967841 | 735.559 | 14.2233 |
| | 0.101325 | 1.03323 | 1 | 760 | 14.6959 |
| | $1.33322 \times 10^{-4}$ | $1.35951 \times 10^{-3}$ | $1.31579 \times 10^{-3}$ | 1 | $1.93368 \times 10^{-2}$ |
| | $6.89476 \times 10^{-3}$ | $7.03070 \times 10^{-2}$ | $6.80460 \times 10^{-2}$ | 51.7149 | 1 |

| エネルギー・仕事・熱量 | J(=$10^7$erg) | kgf·m | kW·h | cal(計量法) | Btu | ft·lbf | eV |
|---|---|---|---|---|---|---|---|
| | 1 | 0.101972 | $2.77778 \times 10^{-7}$ | 0.238889 | $9.47813 \times 10^{-4}$ | 0.737562 | $6.24150 \times 10^{18}$ |
| | 9.80665 | 1 | $2.72407 \times 10^{-6}$ | 2.34270 | $9.29487 \times 10^{-3}$ | 7.23301 | $6.12082 \times 10^{19}$ |
| | $3.6 \times 10^6$ | $3.67098 \times 10^5$ | 1 | $8.59999 \times 10^5$ | 3412.13 | $2.65522 \times 10^6$ | $2.24694 \times 10^{25}$ |
| | 4.18605 | 0.426858 | $1.16279 \times 10^{-6}$ | 1 | $3.96759 \times 10^{-3}$ | 3.08747 | $2.61272 \times 10^{19}$ |
| | 1055.06 | 107.586 | $2.93072 \times 10^{-4}$ | 252.042 | 1 | 778.172 | $6.58515 \times 10^{21}$ |
| | 1.35582 | 0.138255 | $3.76616 \times 10^{-7}$ | 0.323890 | $1.28506 \times 10^{-3}$ | 1 | $8.46233 \times 10^{18}$ |
| | $1.60218 \times 10^{-19}$ | $1.63377 \times 10^{-20}$ | $4.45050 \times 10^{-26}$ | $3.82743 \times 10^{-20}$ | $1.51857 \times 10^{-22}$ | $1.18171 \times 10^{-19}$ | 1 |

1 cal = 4.18605 J（計量法）
= 4.184 J　（熱化学）
= 4.1855 J　（15 °C）
= 4.1868 J（国際蒸気表）

仕事率　1 PS（仏馬力）
= 75 kgf·m/s
= 735.499 W

| 放射能 | Bq | Ci |
|---|---|---|
| | 1 | $2.70270 \times 10^{-11}$ |
| | $3.7 \times 10^{10}$ | 1 |

| 吸収線量 | Gy | rad |
|---|---|---|
| | 1 | 100 |
| | 0.01 | 1 |

| 照射線量 | C/kg | R |
|---|---|---|
| | 1 | 3876 |
| | $2.58 \times 10^{-4}$ | 1 |

| 線量当量 | Sv | rem |
|---|---|---|
| | 1 | 100 |
| | 0.01 | 1 |

（86 年 12 月 26 日現在）

# A DATABASE ON TRITIUM BEHAVIOR IN THE CHRONIC HT RELEASE EXPERIMENT (1) METEOROLOGICAL DATA AND TRITIUM CONCENTRATIONS IN AIR AND SOIL