

PRELIMINARY ANALYSIS OF SUMMERTIME HEAT STORAGE IN
TRADITIONAL VERSUS PERVIOUS CONCRETE SYSTEMS

By

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Abstract

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The urban heat island effect, where air temperatures are significantly higher in more developed areas than those of the surrounding countryside due to solar radiation retained in materials such as pavements, has increasingly become a concern during hot weather due to its negative impact on human health as well as human comfort and the natural environment. Currently one method of measuring how “cool” (helpful in mitigating urban heat island) a pavement may be is its solar reflectance index (SRI). LEED counts any pavement with an SRI greater than 29 as a “cool” surface. Many concrete pavements have an SRI greater than 29, but pervious concrete pavements typically do not because their rough surface does not reflect light as well. The hypothesis presented in this thesis is that pervious concrete has other beneficial properties, particularly its extensive void structure which may serve to insulate the ground from heat transfer thus also helping to mitigate the urban heat island effect. This thesis examines temperature data collected during the summer of 2007 from a side by side pervious concrete and traditional concrete pavement systems at a parking lot site in Iowa with respect to potential mitigation of the urban heat island effect. The pervious concrete at the site only had an SRI of 14 while the traditional concrete had an SRI of 37. The research done for this thesis shows that despite the low SRI the pervious concrete performed just as well as the traditional concrete in terms of urban heat island mitigation under dry conditions, and therefore could also be counted as a “cool” material. Additional benefits with the pervious concrete system from rainfall events were also noted. These are thought to be from evaporative cooling.

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1. Introduction

1.1 Problem Statement

The use of permeable pavements is a storm water best management practice used in low impact development, but the voids in pervious concrete or other permeable pavements may also aid in insulating the ground from urban heat island effects. However, previous pervious research showed high surface temperatures for pervious concrete, so its overall impact is unknown (Haselbach 2009). Green rating systems in 2009 and before have discounted pervious concrete as a “cool” pavement (Haselbach et al. 2011). A side by side test was done with a pervious concrete system and a traditional concrete system to use as proof of concept for the inclusion of pervious concrete as a “cool” pavement.

1.2 Format of the Thesis

Portions of this thesis were also used in a paper “Cyclic Heat Island Impacts in Traditional versus Pervious Concrete Pavement Systems” and are as referenced throughout (Haselbach et al. 2011). This thesis expands with more details from the research and includes more comparative data sets. The first chapter explains the urban heat island effect, mitigation strategies, and rating systems as they pertain to urban heat island effects, then goes on to discuss pervious concrete with a section specifically on past research with pervious concrete and the urban heat island effect. Chapter 2 describes the parking lot where data for this thesis was taken. In the third chapter the methodologies for analysis and supplementary lab methods and results are described. The fourth chapter consists of the results, and Chapter 5 contains conclusions and recommendations. Appendix A has the raw data from the site for summer 2007.

1.3 Literature Review

1.3.1 Urban Heat Island Effect

The Urban Heat Island Effect (UHI) is caused by urban materials absorbing solar radiation and then later emitting radiation which causes ambient temperatures in the area to increase with respect to neighboring rural areas (Mallick et al. 2009, Wan et al. 2009, Haselbach and Gaither 2008). Pavements are one of the major contributors to UHI (Wan et al. 2009). Temperatures can vary significantly. One study on a Portland Oregon heat wave in July 2006 gave a maximum UHI of 13°F with temperatures varying from 90 to 103°F (Bornstein and Melford 2009). A study including fifty large metropolitan areas in the United States from 1951 to 2000 indicated an average decadal growth of 0.05 °C in UHI which shows the UHI effect at least in some cities is becoming more prominent (Stone 2009). The UHI effect may cause an increased energy demand (for air conditioning), cause discomfort or health problems for people, and increase the rate at which smog forms (Synnefa et al. 2009). For these reasons the UHI effect is important to study, especially in looking for potential ways to mitigate or lessen UHI.

1.3.2 Urban Heat Island Mitigation Strategies

“Technologies that help reduce UHI effects from traditional pavements include higher albedo surfaces and shading to offset some of the impacts by reducing the solar energy absorbed in the pavements (Akbari et al. 2001). Overall UHI mitigation strategies are grouped into trees and vegetation, green roofs, *cool* roofs, and *cool* pavements. *Cool* pavements represent a developing set of pavement technologies that do not contribute substantially to the UHI effect (EPA 2010). There are also some innovative technologies to assist in mitigation such as piping fluids in a framework through pavements to remove heat and potentially use that energy elsewhere (Mallick et al. 2009)” (Haselbach et al. 2011).

1.3.3 Rating Systems

“The solar reflectance index (SRI) is being used as a method to compare the ‘coolness’ of various traditional impervious pavements and has been adopted by the US Green Building Council (USGBC) in its LEED™ rating system as a methodology for determining if a pavement design aids in mitigating the UHI effect (Haselbach 2010, Marceau and Van Geem 2007). SRI is a combination of albedo and emissivity of the pavement materials. Pavement materials (concrete, asphalt, and aggregates) all have similar emissivities fixed at 0.90 according to LEED requirements therefore increasing albedo is a technique utilized to reduce heat storage (Haselbach 2010). Currently LEED only acknowledges the use of highly reflective pavements (SRI greater than 29), the use of open grid pavement systems (minimum 50% pervious) with vegetation in the open cells, or shading for UHI mitigation (Haselbach 2010). However many permeable pavements have low albedos from the shadowing and scattering produced on the uneven top surface. Therefore permeable pavements such as pervious concrete and porous asphalt are not included as cool pavement alternatives in LEED unless their SRI values are sufficiently high (>29). Figure 1.1 shows the albedo difference of the pervious concrete and traditional concrete used in this study. Both were made using similar materials. Albedo was measured according to ASTM E1918 and SRI was calculated using ASTM E1980 assuming an emissivity of 0.90 for both pavements (ASTM 2006, ASTM 2001). The traditional uncoated concrete achieved an SRI of 37, while the uncoated pervious concrete only achieved an SRI of 14. To aid the pervious concrete in achieving currently approved LEED heat island credits, sections of both pavements not otherwise used in this study were also coated with white pigment. The white-coated traditional concrete had a SRI greater than 70, while the adjacent white-coated pervious concrete only achieved a SRI of 29 as depicted in Figure 1.1. However, permeable pavements may have other characteristics other than solar reflectance which are beneficial in mitigating the urban heat island effect, such as insulating capabilities of the extensive pore structure or evaporative cooling from the water stored in the systems” (Haselbach et al. 2011).



Figure 1.1: SRI of similar mixes of traditional concrete and pervious concrete (Haselbach et al. 2011)

1.3.4 Solar Reflectance Index

Currently a solid pavement material's effect on the UHI is essentially solely determined by its albedo, or its solar reflectance index (SRI) in LEED. LEED 2009 requires paving materials to have a SRI of 29 or greater to be counted towards the sustainable sites non-roof heat island credit 7.1 (Haselbach 2008). Typical new gray concrete has an SRI of 35 (Haselbach 2010), however, the SRI of pervious concrete may be lower than that of traditional concrete (Haselbach 2009). Surface coatings (see Figure 1.1) can be used to increase a pavement's reflectivity and significantly decrease surface temperatures, helping mitigate UHI (Wan et al. 2009). However, it is thought that the solar reflectance index alone may be insufficient to fully represent the mitigation potential of a paving material like pervious concrete because material properties below the surface would also be important (Kevern et al. 2009). For a pavement or concrete, the four main modes of heat transfer are solar radiation absorbed, radiation emitted, conduction through the material, and convection above due to wind (Mallick et. al. 2009). The SRI accounts for the amount of solar radiation absorbed but not necessarily other heat transfer characteristics that may impact a material's performance below the surface with respect to the urban heat island effect.

1.3.5 Pervious Concrete

“Pervious concrete describes a material with interconnected pores that lets water drain through and is generally formed with coarse aggregate of a similar size, cementitious materials, water, and various admixtures (ACI 2010). Properties of pervious concrete such as compressive strength, flexural strength, percolation rate, etc. are primarily dependent on the porosity, which depends on the cement content, water to cement ratio, the compaction efforts, and aggregate gradation and quality (ACI 2010). One procedure to measure the porosity of cored samples in the laboratory was developed using the concepts of water displacement (Montes et al. 2005), and for a more accurate estimate of in-situ porosity a knockout factor (due to some aggregate being knocked out during coring) may be considered (Haselbach and Freeman, 2007)” (Haselbach et al. 2011).

Pervious concrete is used in parking lots, as a surface course on roads or parking lots, as a drainable base or subbase for roads, road shoulders, or other uses which could include as a noise barrier or tennis courts (primarily in Europe). Pervious concrete is not actually a new material having been used since at least the mid 19th century for building construction because it had good thermal insulation properties, absorbed noise well, and used less cement for a unit volume of concrete. Today in the United States, pervious concrete is most often used on roads or parking lots because it helps with storm water pollution and runoff control, eliminates or reduces the need for water retention areas and storm sewers, counts as pervious area (depending on local regulations), lets air and water reach tree roots, and for roads, reduces hydroplaning, glare, and noise. Disadvantages of pervious concrete include limited use for heavy vehicle traffic (although admixtures can be used to increase strength), specialized construction practices, sensitivity to mix proportions, and lack of established standards. Properties of pervious concrete such as compressive strength, flexural strength, percolation rate, etc. are primarily dependent on the porosity. Porosity depends on the cement content, water to cement ratio, the

compaction efforts, and aggregate gradation and quality. In design of pervious concrete, both structural and hydraulic requirements have to be taken into consideration (ACI Committee 522 2010).

1.3.6 Pervious Concrete and Urban Heat Island

Base and surface temperature data obtained at a site in Greenville, South Carolina from traditional asphalt, traditional concrete, and pervious concrete at two different porosities on two hot and sunny days to was used to explore the potential for the pervious concrete to lessen the urban heat island effect. It was found that the surface temperatures of the pervious concrete were higher than the traditional concrete and similar to the darker asphalt. It was theorized that the high surface temperatures could be accounted for by the reduced mass and greater surface area (due to greater porosity) in addition to the albedo compared to traditional concrete. Other factors were considered negligible. The base temperatures for the traditional and pervious concrete were measured, and then modeled with equations which showed higher base temperatures in the traditional concrete than the pervious concrete given the same surface temperature. Haselbach theorized that this was due to the insulating capabilities of the pores in the pervious concrete (Haselbach 2009). A preliminary study of the Greenville, South Carolina data by Haselbach and Gaither hypothesized that some potential benefits in terms of the urban heat island effect of pervious concrete as compared to more traditional pavements may include a higher albedo (solar reflectance) than materials like asphalt, higher porosity which might provide an insulating capacity, and pores better allowing air and water to roots promoting better growth of trees and plants which will provide shade and greater evapotranspiration with associated cooling effects (Haselbach and Gaither 2008).

Kaloush (2008) presented some data collected from temperature sensors embedded in pervious concrete systems and shows temperature profiles by depth and notes that the near surface temperatures undergo the largest fluctuations and cool rapidly at night.

Some preliminary analysis was done by Kevern, et al. (2009 and Haselbach 2011) on the data from the half pervious half traditional concrete parking lot with temperature sensors at Iowa State University, where they stated the need for further research into modeling the pervious concrete system with respect to energy (heat) storage for a dry system and a system with moisture as well as factoring in solar reflectance.

1.4 Objectives of this Research

The objective of this research is to compare the heat absorbed during the summer in a “cool” concrete system to that of a pervious concrete system. Specifically the objectives are:

- 1) Characterize the system and heat parameters;
- 2) Analyze heat gain/loss in each system layer by hour and total system heat gains daily over the summer for solid phase only;
- 3) Perform sensitivity analyses for the heat capacity and background temperature assumptions;
- 4) Relate data to ambient air temperature, cooling degree days, and precipitation; and
- 5) Briefly consider the impact of precipitation.

2. Site

2.1 Background

Temperature data for this analysis came from sensor arrays in a parking lot constructed during the summer of 2006 of which half was a Portland cement pervious concrete (PCPC) system and half was

a traditional concrete (PCC) system at Iowa State University. The types of cement and aggregate in the concrete were identical in both systems, and the soil on the site was mainly clay. Figure 2.1 shows the typical cross sections for each system and sensor placement depths. Temperatures from the two different concrete systems, air temperatures, and precipitation were all recorded hourly as well as other data not pertaining to this analysis.

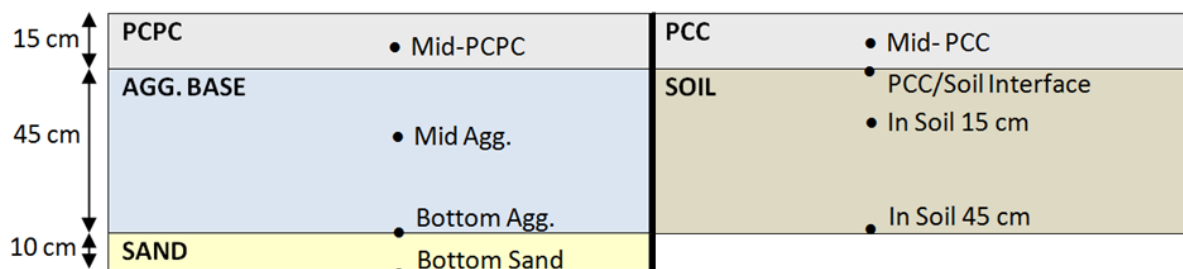


Figure 2.1: Cross sections and bulleted sensor locations for the PCPC and PCC systems (Mid represents middle location and AGG. is aggregate) (Haselbach et al. 2011).

2.2 Pervious Concrete System

The pervious system was defined as 15 cm pervious concrete (a #4 or 3/8" river gravel mix) with 45 cm of limestone aggregate base down to 60 cm depth. Below the aggregate base was a 10 cm layer of sand on top of a geotextile, and then the existing clay soil. The average porosity for the pervious concrete layer was measured as 31%. The finished parking lot can be seen in Figure 2.2 with the pervious concrete on the left.



FIGURE 2.2: Finished parking lot, pervious on the left and traditional concrete system on the right (picture courtesy John Kevern)

2.3 Traditional Concrete System

The traditional concrete system was defined as the 15 cm of Portland cement concrete with soil below down to 60 cm depth. The porosity of the traditional concrete was assumed to be 5%.

2.4 Site Data Collection

Data collected on an hourly basis included temperatures in both systems from sensors as shown in Figure 2.1, moisture data at various depths in both systems, and various weather data such as air temperature, solar radiation, and wind speed.

3. Methods

3.1 Characterizing the System

The volumetric heat capacities for each material used in the calculations and the depths of the layers and compositions modeled for each system are shown in Table 3.1.

Table 3.1: Layer Characteristics and Depths Used in the Calculations

System	Layer Notation and Height (cm)		Layer Makeup	C_v (J/cm ³ °C) (Kevern et al. 2009)	Layer Depths from Surface (cm)	Depth of Thermocouple(s) for Layer Analyses (cm)
<i>PCC</i>	$h_{pcc,c}$	15	traditional concrete	2.1	0-15	8
	$h_{pcc,15-30}$	15	upper soil	1.7	15-30	average 15 & 30
	$h_{pcc,30-60}$	30	lower soil	1.7	30-60	average 30 & 60
	$h_{pcc,15-60}$	45	total soil	1.7	15-60	combination of above two layers
<i>PCPC</i>	$h_{pcpc,pc}$	15	pervious concrete	1.55	0-15	8
	$h_{pcpc,agg}$	45	aggregate base	1.2	15-60	40
	$h_{pcpc,sand}$	10	sand	1.7	60-70	Interpolated between 60 & 70

Where:

C_{v_i} - volumetric heat capacity for layer 'i', J/cm³*°C (as taken from Kevern et al. 2009)

h_i - height of layer 'i', cm

Subscripts used singly or in combination are as follows:

- *pcc*- traditional concrete system
- *c*- concrete
- *soil*- soil layer
- *pcpc*- pervious concrete system
- *pc*-pervious concrete
- *agg*- aggregate layer
- *sand*- sand layer

- Numbers (ex: 15-30) represent the depth below the surface in cm

For further details on the system refer to Chapter 2.

3.2 Heat Gain Calculations

The amount of energy stored per unit area was calculated separately for every layer in the PCC system and the PCPC system using Equations 3.2.1-4 and 3.2.5-7, respectively. The first hour refers to the energy stored from the change in temperature from hour 0 (midnight) to hour one and each hour was calculated similarly up to hour 24 which used the difference between hour 24 (midnight or hour 0 of the next day) and hour 23 for the change in temperature. Initially the total energy stored for each system was obtained by adding the energy stored from each layer. Total energy stored in the pervious concrete was calculated by adding the energy stored for that hour from the pervious concrete and aggregate layer which reflects the two components of Equation 3.2.5. The total energy stored for the traditional concrete was calculated by adding the traditional concrete layer with the energy stored in the upper soil layer (15-30 cm depth) and the lower soil layer (30-60 cm depth).

$$\Delta E_{pcc} = \Delta E_{pcc,c} + \Delta E_{pcc,15-30} + \Delta E_{pcc,30-60} \quad 3.2.1$$

$$\Delta E_{pcc,c} = (C_{Vpcc})(\Delta T_{pcc,8})(h_{pcc}) \quad 3.2.2$$

$$\Delta E_{pcc,15-30} = (C_{Vsoil}) \left(\frac{\Delta T_{pcc,15} + \Delta T_{pcc,30}}{2} \right) (h_{15-30}) \quad 3.2.3$$

$$\Delta E_{pcc,30-60} = (C_{Vsoil}) \left(\frac{\Delta T_{pcc,30} + \Delta T_{pcc,60}}{2} \right) (h_{pcc,30-60}) \quad 3.2.4$$

$$\Delta E_{pcpc} = \Delta E_{pcpc,pc} + \Delta E_{pcpc,agg} \quad 3.2.5$$

$$\Delta E_{pcpc,pc} = (C_{Vpcpc})(\Delta T_{pcpc,8})(h_{pcpc,pc}) \quad 3.2.6$$

$$\Delta E_{pcpc,agg} = (C_{Vagg})(\Delta T_{pcpc,40})(h_{pcpc,agg}) \quad 3.2.7$$

Where:

ΔE_i - represents the amount of energy stored per hour per unit area for layer 'i', J/cm²

ΔT_j - change in temperature per hour at specified thermocouples depths 'j' in Table 2, °C

Net heat gain for a day was calculated by summing the hourly heat gains for that day.

Cumulative heat gain for the summer of 2007 was calculated by adding each consecutive net heat gain for the day starting with June 18, 2007.

3.3 Background Temperature Assumption Sensitivity Calculations

In the aforementioned heat analyses, the background temperatures at 60 cm were similar in both systems but not always equal. In order to see if this variation was significant, the calculations were also performed to a depth in the pervious concrete system with a temperature equal to the temperature at 60 cm in the traditional concrete system. These calculations are referred to as the "corrected" heat gain calculations. The corrected energy stored for the pervious concrete was calculated in the same way as shown in Equations 3.2.5-7, except with the added term for sand (Equation 3.3.4) to a depth that had an equivalent background temperature to the traditional concrete system at 60 cm as shown in Equations 3.3.1-5. The depth necessary to reach a temperature in the pervious concrete system equal to the temperature at 60 cm depth in the traditional concrete system was calculated using linear interpolation in Equation 3.3.5. The height of the sand layer to reach an equivalent background temperature was calculated for each hour, and the average of the two hours used for the change in temperature was the height of the sand layer as calculated in Equation 3.3.4. On June 23, 2007 from 9 am to 2 pm an equivalent background temperature could not be reached using linear interpolation due to temperature inversions without further temperature data. In these cases, it

was assumed that $T_{pcc,60} \cong T_{pcpc,60}$ which is reasonable because there was no greater than an approximate one percent difference between $T_{pcc,60}$ and $T_{pcpc,60}$.

$$\Delta E_{pcpc,corr} = \Delta E_{pcpc,pc} + \Delta E_{pcpc,agg} + \Delta E_{pcpc,sand,eq} \quad 3.3.1$$

$$\Delta E_{pcpc,pc} = (C_{Vpcpc})(\Delta T_{pcpc,8})(h_{pcpc,pc}) \quad 3.3.2$$

$$\Delta E_{pcpc,agg} = (C_{Vagg})(\Delta T_{pcpc,40})(h_{pcpc,agg}) \quad 3.3.3$$

$$\Delta E_{pcpc,sand,eq} = (C_{Vsand}) \left(\frac{\Delta T_{pcpc,60} + \Delta T_{pcc,60}}{2} \right) (h_{sand,eq,avg}) \quad 3.3.4$$

$$h_{sand,eq} = (h_{sand}) \left(\frac{T_{pcpc,60} - T_{pcc,60}}{T_{pcpc,60} - T_{pcpc,70}} \right) \quad 3.3.5$$

Where:

Additional subscripts used singly or in combination are as follows:

- *eq*- equivalent, depth in sand where the temperature equals the temperature at 60 cm depth in the traditional concrete system
- *avg*- average, for average height

3.4 Volumetric Heat Capacity Sensitivity Calculations

To analyze the sensitivity of the calculations to the assumed volumetric heat capacities for soil (traditional concrete system) and aggregate base (pervious concrete system) all the calculations were repeated for four different scenarios: $C_{v,soil}$ increased by 10% (to overestimate the PCC system heat capacity), $C_{v,soil}$ decreased by 10% (to underestimate PCC system), $C_{v,agg}$ increased by 10% (to overestimate PCPC system), and $C_{v,agg}$ decreased by 10% (to underestimate PCPC system). The resulting heat gains calculated were used to create error bars on two graphs (discussed later) to show the effects of under or over estimated volumetric heat capacities for either the soil or aggregate layers. The

volumetric heat capacity for the traditional concrete system and that for the pervious concrete system were not altered because the volumetric heat capacity for concrete is a well established value.

3.5 Cooling Degree Day Calculations

The cooling degree day (CDD) for each day represents the difference between the average temperature for the day and a base temperature of 18°C. Although the minimum air temperature went up to about 4°C below the base temperature for some days no adjustments were made for these initial calculations.

3.6 Air Temperature and Precipitation

Ambient air temperature in degrees Celsius and precipitation in inches were recorded hourly throughout the summer. Precipitation was converted to units of centimeters for calculations.

3.7 Rain Water Impacts

The heat gain calculations explained previously did not account for the thermal effects of rain water held in the pervious concrete system, nor did they account for the evaporative effects after a precipitation event. This research did not fully evaluate these processes as additional data on water in the system was not available. However, it is suspected that a significant amount of water might be held in the upper pervious concrete layer which might have an impact on the heat stored there, and if these water volumes can be estimated, then the heat impacts in this layer can be calculated based on the heat capacity of water. In order to accomplish this, some additional laboratory work was developed and performed on pervious concrete samples with similar porosities.

To determine the amount of rain water that could be retained within the pervious concrete layer after a rain event four test cylinders of pervious concrete made in the lab with porosities of approximately 30% were used for simulating rain percolating into the pervious concrete system. Cylinders were shrink wrapped leaving only the top and bottom free, with a lip around the top to ensure that water poured on the top infiltrated down, similar to a rainfall event. Water was poured onto the top of the cylinders at a rate of about 1.7 mL/second, evenly around the top of the sample. Figure 3.1 shows one cylinder suspended in a frame with water being added to the top. Two methodologies were used, and in both cases dry and then damp cylinders were tested in order to represent the various field conditions (rain with or without prior precipitation events).

In the first method water was poured slowly on top of the specimen until water started to drip out the bottom, and the amount of water poured in up to this point was recorded. The second method used one inch of water poured slowly on top of the specimen, and the water that dripped out of the bottom of the specimen was measured after three minutes were allowed to pass to let additional water drip through. During testing the room temperature varied from 73°F to 78°F and the humidity from 32% to 38%. After testing, the specimens were placed on racks in the same room by the window to dry. Three days were allowed for the specimens to go from dry to damp for tests while twelve days were allowed for the specimens to dry out in between test methodologies. Specimen masses were recorded prior to each test.



Figure 3.1: Rain water retention test

Tables 3.2 through 3.5 show the results from the water retention tests. In all cases the “Height Water Retained” represents the amount of water held in the pervious concrete. “It was shown that the samples captured approximately one cm of rain water in the pervious concrete layer itself, whether the layer was dry or damp from previous wetting (rains). Calculations were performed which estimated the heat absorbed by the rain held in the pervious concrete layer for the major rain events. All rain up to one centimeter was assumed held in the pervious concrete layer, and the heat absorbed was based on the heat capacity of water and the difference between the average air temperature and the average pervious concrete layer temperature over the hours of the rain event. It was found that the heat capacity of the water captured in this layer accounts for some, but not all the of the heat differences between the two systems. Therefore, there may initially still be some additional heat retained in the water held in the pervious layer, but this does not account for all the cooling in the pervious concrete system” (Haselbach et al. 2011).

Table 3.2: Water retention test, water poured into dry pervious concrete cylinders until dripped out bottom

Cylinder Used	Cylinder					Water In (mL)	Height Water Retained (cm)
	Porosity of core (%)	dry mass (g)	Height (cm)	Diameter (cm)	Area (cm ²)		
WA18	31	2506.8	17.81	10.24	82.34	77	0.94
WA17	30	2556.9	17.54	10.28	82.98	100	1.21
WA06	30	2521.5	17.35	10.24	82.34	80	0.97
WB04	30	2787.8	18.39	10.24	82.34	78	0.95

Table 3.2 contains the results from the initial test performed on four dry pervious cylinders with water poured slowly on top at a constant rate. In this test the cylinders retained the greatest amount of water averaging 1.01 cm.

Table 3.3: Water retention test, water poured into damp pervious concrete cylinders until dripped out bottom

Cylinder Used	Cylinder					Water In (mL)	Height Water Retained (cm)
	Porosity of core (%)	dry mass (g)	Height (cm)	Diameter (cm)	Area (cm ²)		
WA18	31	2540.8	17.81	10.24	82.34	80	0.97
WA17	30	2584.6	17.54	10.28	82.98	90	1.08
WA06	30	2542.1	17.35	10.24	82.34	67	0.81
WB04	30	2812.9	18.39	10.24	82.34	50	0.61

Table 3.3 shows the results from the second test performed on four damp (in comparison with Table 3.2 the dry mass for each cylinder is higher, indicating some water retained) pervious cylinders with water poured slowly on top at the same constant rate. For this test an average of 0.87 cm of water was retained, less than the same specimens retained when dry with the same testing method, but still a significant amount.

Table 3.4: Water retention test, 1 inch poured into dry pervious concrete cylinders

Cylinder Used	Cylinder					Water (mL)			Height Water Retained (cm)
	Porosity of core (%)	dry mass (g)	Height (cm)	Diameter (cm)	Area (cm ²)	In	Out	Remaining	
WA18	31	2525.1	17.81	10.24	82.34	210	151	59	0.72
WA17	30	2571.1	17.54	10.24	82.34	210	146	64	0.78
WA06	30	2528.0	17.35	10.24	82.34	210	156	54	0.66
WB04	30	2799.9	18.39	10.24	82.34	210	158	52	0.63

The third test performed with one inch of water poured at a slow rate on top into dry pervious concrete specimens, resulted in the average water retained from the test results shown in Table 3.4 as 0.70 cm, less than both the damp and dry tests where water was poured until it started to drip out the bottom.

Table 3.5: Water retention test, 1 inch poured into damp pervious concrete cylinders

Cylinder Used	Cylinder					Water (mL)			Height Water Retained (cm)
	Porosity of core (%)	dry mass (g)	Height (cm)	Diameter (cm)	Area (cm ²)	In	Out	Remaining	
WA18	31	2537.8	17.81	10.24	82.34	210	145	65	0.79
WA17	30	2584.5	17.54	10.24	82.34	210	142	68	0.83
WA06	30	2541.7	17.35	10.24	82.34	210	149	61	0.74
WB04	30	2811.0	18.39	10.24	82.34	210	159	51	0.62

The results in Table 3.5 are from the fourth test performed on four damp (in comparison with Table 3.4 the dry mass for each cylinder is higher, indicating some water was retained) pervious cylinders with one inch of water poured slowly on top at the same constant rate. On average 0.74 cm of water was retained, slightly more than the same specimens retained when dry with the same testing method.

The heat gain calculations explained previously did not account for the effects of rain in the pervious concrete system and evaporative effects after a precipitation event. The heat gain for the rain stored in the pervious concrete layer was calculated as shown in Equation 3.7.1. These calculations were done on a daily basis for every day there was rain to compare the performance of the pervious concrete system with that of the traditional concrete system during rain events and also for every six hours around the July 9, 2007 and August 13, 2007 rain events to examine more closely the effects of water in the pervious concrete system after a rain event. The rain used in Equation 3.7.1 only was from 0 cm to 1 cm. If it rained more than 1 cm, 1 cm was used in the calculation to represent the amount of water that could be held in the pervious layer.

$$\Delta E_{absrain} = (i n_{rain})(C_{Vwater})(T_{avg,pcpc} - T_{avg,rain}) \quad 3.7.1$$

Where:

$i n_{rain}$ - total amount of rain for day 'k', cm, up to 1 cm

C_{Vwater} - volumetric heat capacity for water, taken as 4.18 J/cm³*°C

$T_{avg,pcpc}$ - average temperature of pervious concrete, °C, during rain event

$T_{avg,rain}$ - average temperature of rain, °C, taken to be equal to average air temperature during rain event

$\Delta E_{absrain}$ - represents the amount of energy stored per unit area for rain held in pervious concrete, J/(cm²)

4. Results

4.1 Background Temperature Sensitivity

The difference between the corrected heat gain calculations and the initial heat gain calculations based on the assumption of 'equivalent' background temperatures deep in the two systems was considered negligible with an average of only 0.7% difference and a maximum difference of 2.6% for all five days analyzed. The correction was considered to make a negligible difference, and the corrected (corr) values were chosen to be used in this paper.

Figure 4.1 shows a graph with both the initial heat gain calculations and the corrected heat gain calculations for a typical hot day with dry weather for five days previous, illustrating the negligible difference between the corrected and initial heat gain calculation values.

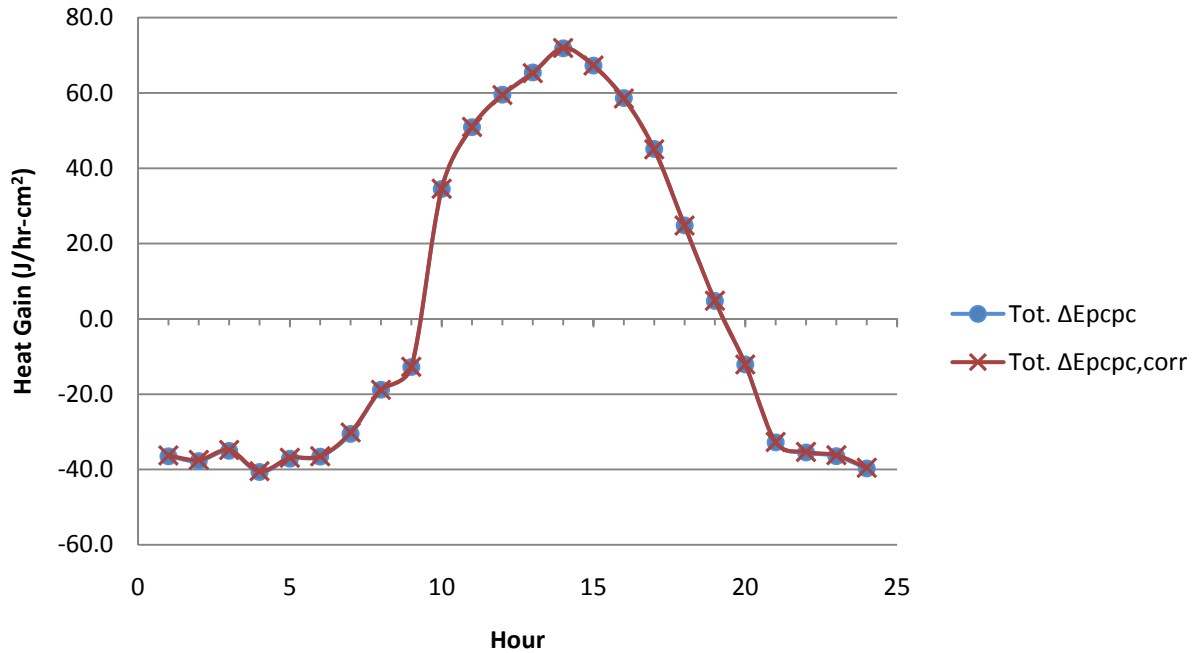


Figure 4.1: 24 hour heat gain totals on 7/7/2007- ΔE_{pcpc} compared to $\Delta E_{pcpc,corr}$

Figure 4.2 depicts how most of the heat gain occurs in the pavement layers with relatively lower amounts of heat gain in the deeper layers of both systems, particularly in the deepest PCC system layer (30-60cm soil layer). This also supports using either assumption of the background temperature for the heat gain calculations due to small amounts of heat gain in the lower layers.

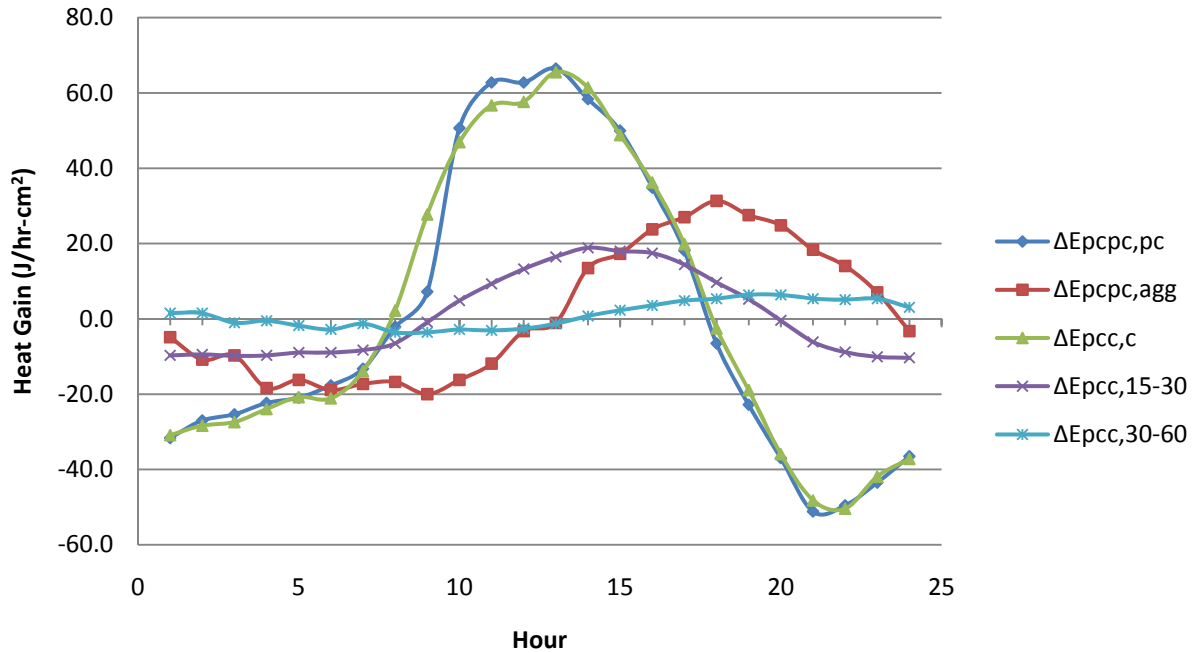


Figure 4.2: Heat gain by layers for 7/7/2007

4.2 Heat Gain

Corrected net heat gain for each day from June 18, 2007 (Day 1 on graphs) to August 31, 2007 (Day 75) are shown plotted with precipitation and with maximum and minimum air temperatures on Figures 4.3 and 4.4 respectively.

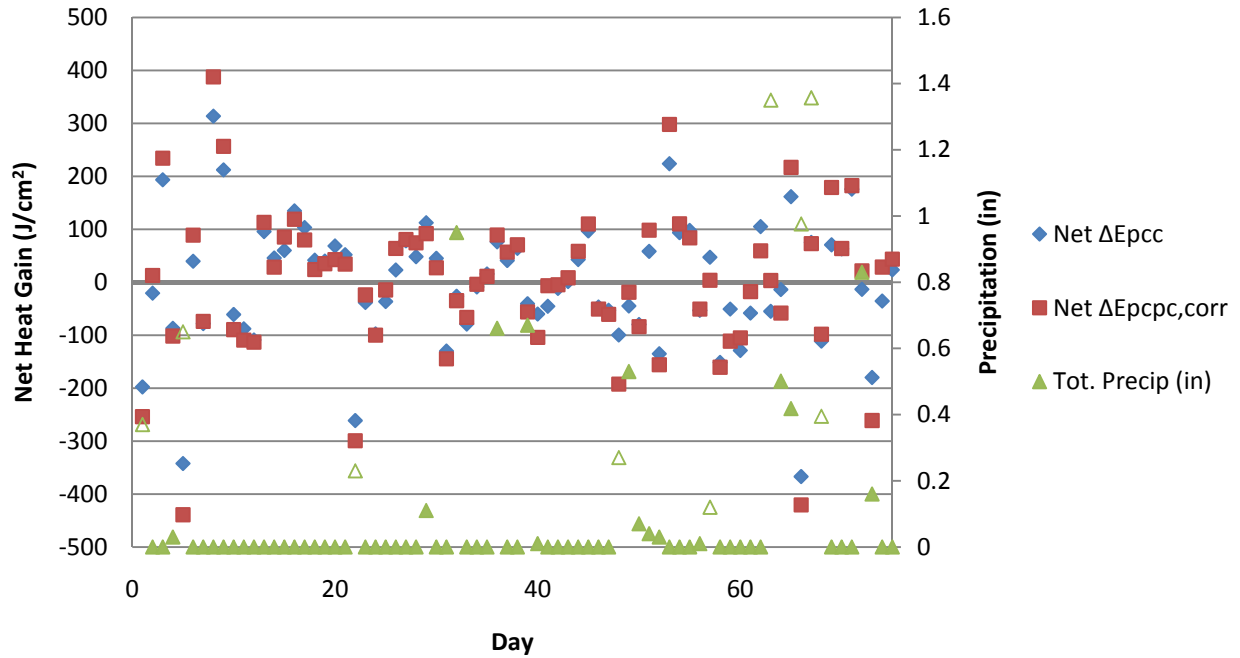


Figure 4.3: Daily net heat gain during summer 2007 for PCC and PCPC systems plotted with total precipitation (daytime with open triangles)

Several large drops in net heat gain for both systems correspond with rain during the day (marked by the open triangles). These can be seen for example on Day 5, Day 22, and Day 66 on Figure 4.3. However nighttime rain (solid triangles) did not usually cause such large heat losses. It was therefore hypothesized that daytime rain had a greater effect than nighttime rain, with clouds blocking the sun allowing for less additional heating during the day.

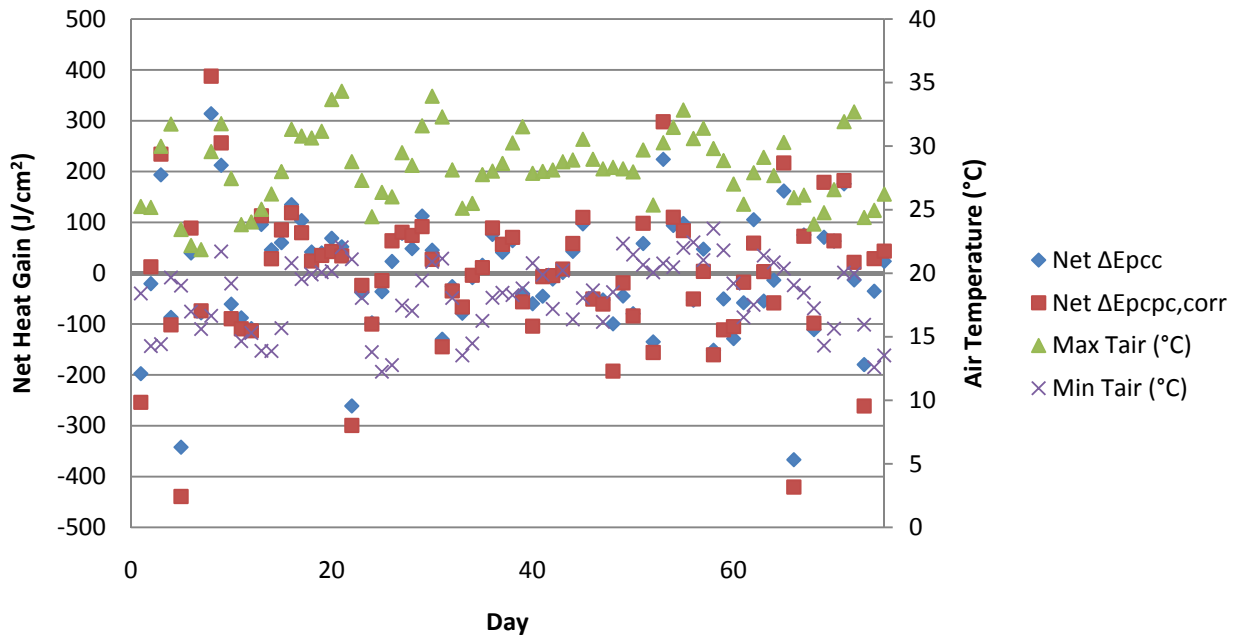


Figure 4.4: Daily net heat gain during summer 2007 for PCC and PCPC systems plotted with daily air temperatures

Figure 4.4 shows net heat gain for both systems as behaving similarly and heat gain trends generally following the trends of the air temperatures.

Cumulative heat gains starting from June 18, 2007 (Day 1 on graphs) through August 31, 2007 (Day 75) are shown plotted with precipitation, with maximum and minimum air temperatures, and with CDDs on Figures 4.5, 4.6, and 4.7, respectively.

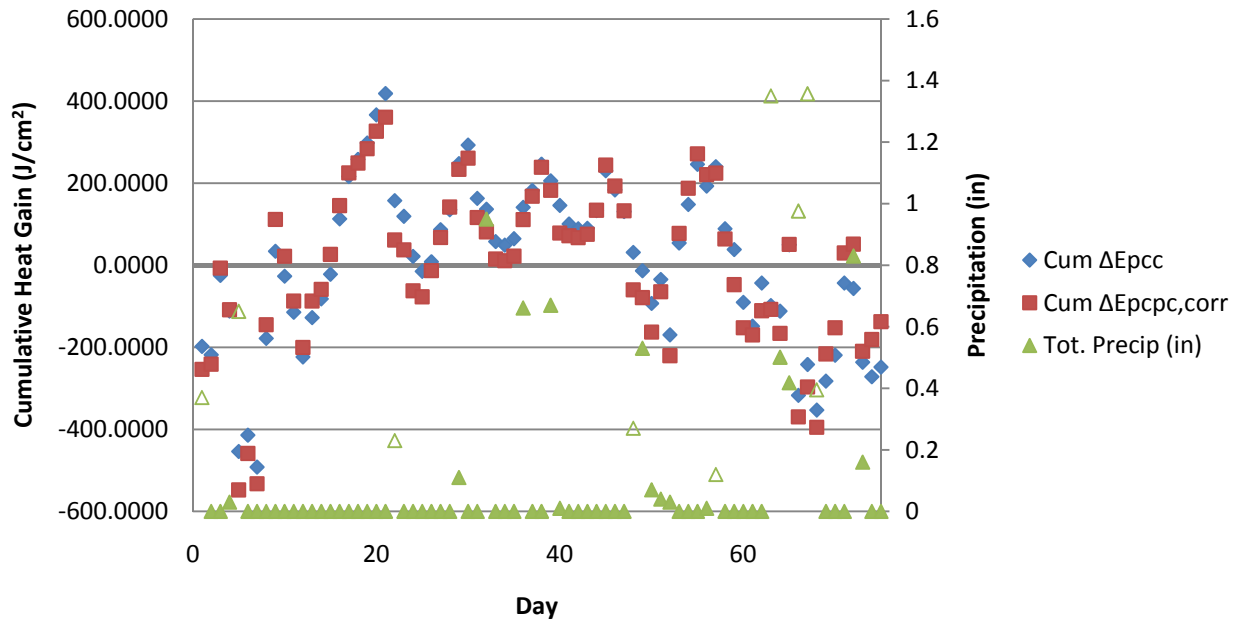


Figure 4.5: Cumulative heat gain during summer 2007 for PCC and PCPC systems and total precipitation (daytime with open triangles)

In Figure 4.5 daytime rain generally coincides with large drops in the cumulative heat gains, for example on Day 22 or Day 48. This will be discussed further later.

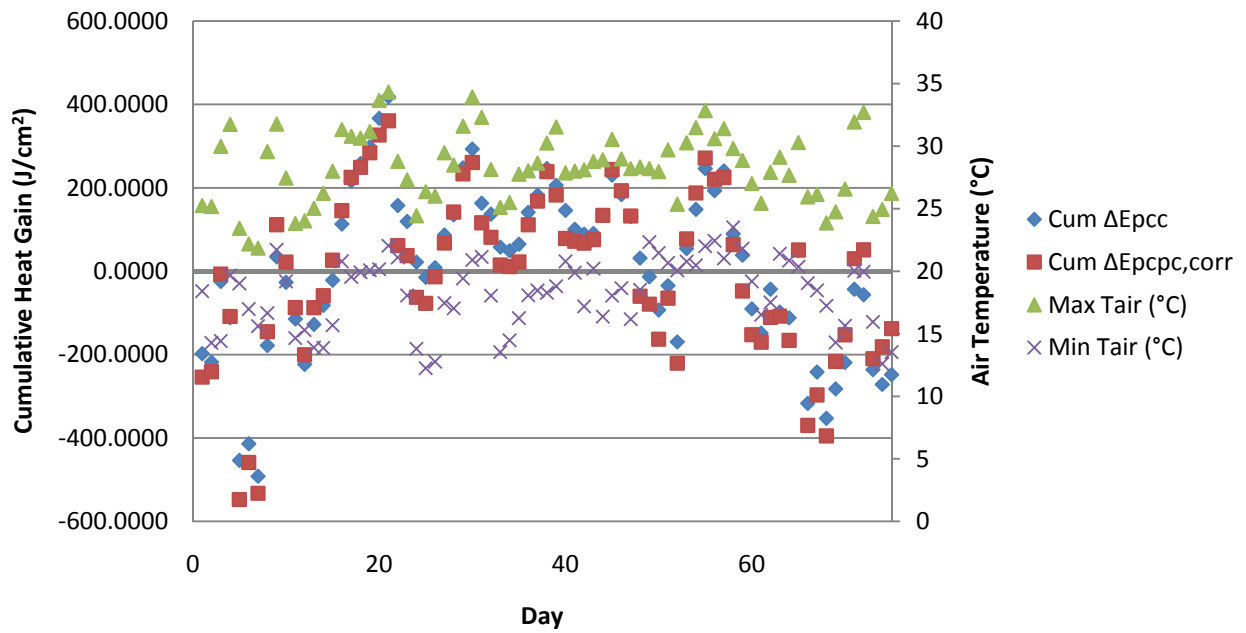


Figure 4.6: Cumulative heat gain during summer 2007 for PCC and PCPC systems and daily air temperatures

Again, similar to Figure 4.3, the heat gain trends tend to follow the air temperatures in Figure 4.6 with the maximum and minimum air temperatures. The peaks for heat gain coincide with high maximum air temperatures.

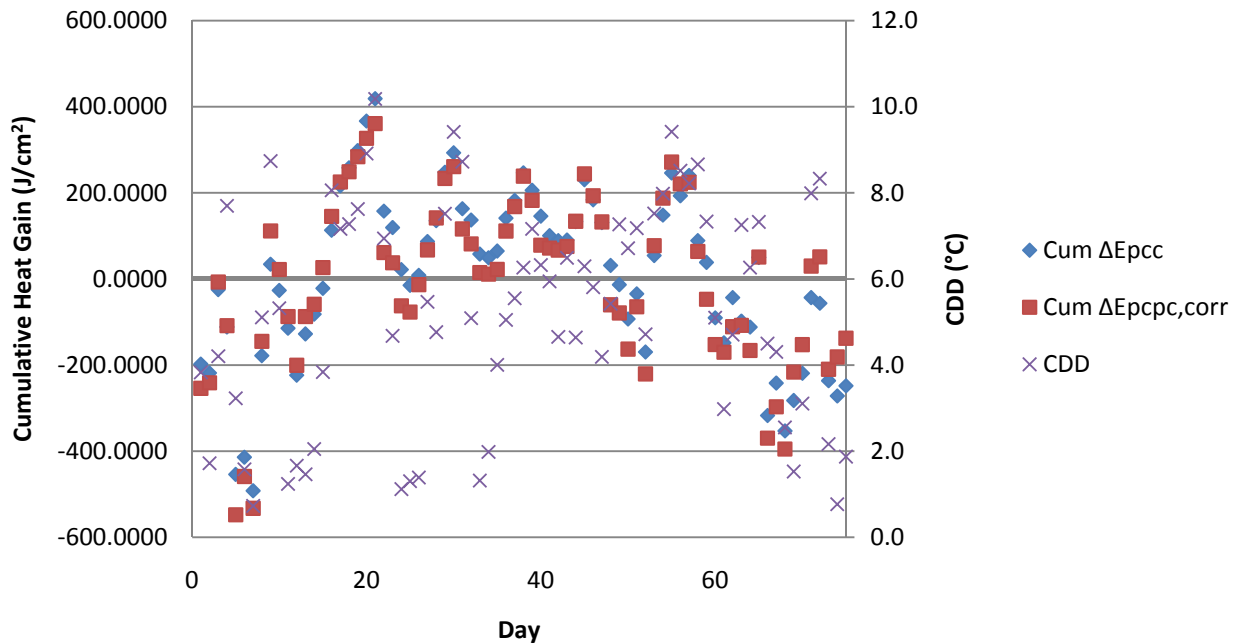


Figure 4.7: Cumulative heat gain during summer 2007 for PCC and PCPC systems and cooling degree days

The heat gain trends can be seen to follow the air temperature trends expressed as cooling degree days (CDD) in Figure 4.7.

4.3 Volumetric Heat Capacity Sensitivity

The volumetric heat capacities of the various layers in the two systems were estimated based on known values in other studies (Kevern et al. 2009). In order to ascertain if small variations in the assumed heat capacities would have a significant impact on the conclusions, a sensitivity analysis was performed varying the assumed values $\pm 10\%$. This analysis compared the relative heat gains between the two systems with the various heat capacity ranges.

When the cumulative heat gain was above 0 J/cm^2 (representing intervals with higher summer air temperatures) the pervious concrete system often had lower heat gain than the traditional concrete.

Quantitatively, when the difference between the cumulative heat gains were taken every time during the summer of 2007 when the cumulative heat gain was over 0 J/cm^2 for either system, the differences were summed and the traditional concrete had a total of 1244 J/cm^2 of heat gain more than the pervious concrete system based on the original heat capacity assumptions as noted in Table 4.1.

Table 4.1: Difference between cumulative heat gain for PCPC and PCC systems (Haselbach et al. 2011)

Case	Assumption	$\Sigma(\text{cum } \Delta E_{\text{pcc}} - \text{cum } \Delta E_{\text{pcpc}})$
a	original assumptions for C_v	1244
b	increase $C_{v,\text{agg}}$ by 10% (to overestimate pcpc)	1174
c	increase $C_{v,\text{soil}}$ by 10% (to overestimate pcc)	1427
d	decrease $C_{v,\text{agg}}$ by 10% (to underestimate pcpc)	1314
e	decrease $C_{v,\text{soil}}$ by 10% (to underestimate pcc)	1062

Table 4.1 shows the value for the original heat capacity assumptions, and then for the assumptions for the error bars created by assuming plus or minus ten percent for the volumetric heat capacity of the aggregate in the pervious concrete system, and also plus or minus ten percent for the volumetric heat capacity of the soil in the traditional concrete system. In all cases the traditional concrete had a higher cumulative heat gain overall for the higher summer air temperatures (characterized by a cumulative heat gain over 0 J/cm^2).

Figures 4.8 and 4.9 are similar to Figures 4.3 and 4.5, for net heat gain and cumulative heat gain respectively, but also include the error bars created by assuming plus or minus ten percent for the volumetric heat capacity of the aggregate in the pervious concrete system, and plus or minus ten percent for the volumetric heat capacity of the soil in the traditional concrete system.

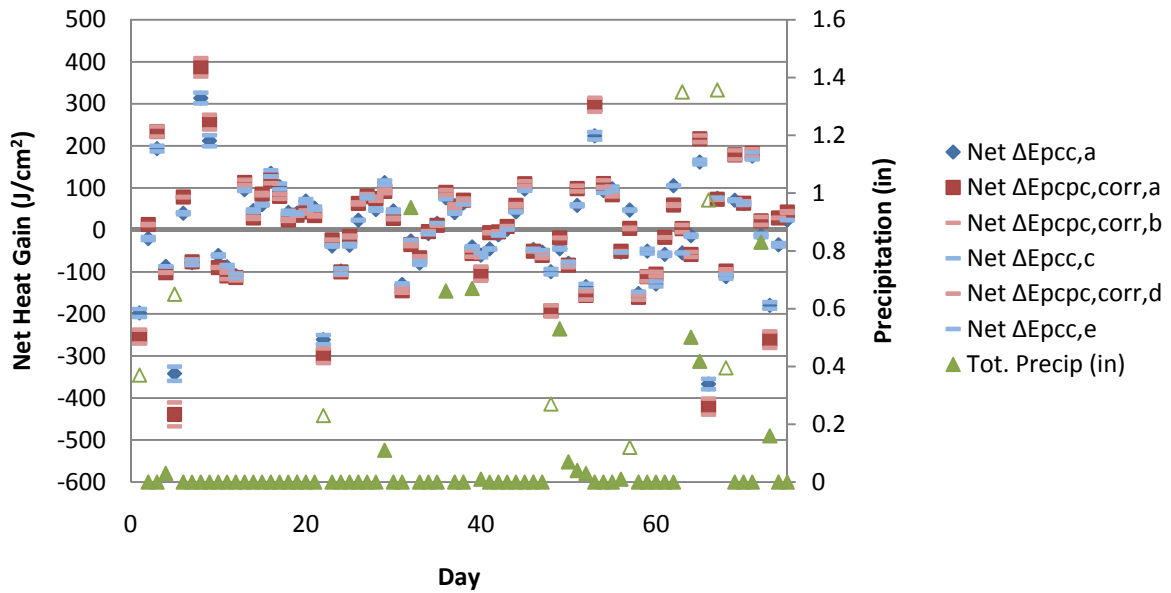


Figure 4.8: Net heat gain during summer 2007 for PCC and PCPC systems plotted with total precipitation and error bars for the C_v cases shown in Table 4.1

Figure 4.8 shows that the error bars are relatively small, therefore the heat gain was not very sensitive to the aggregate or soil heat capacities for the net heat gain.

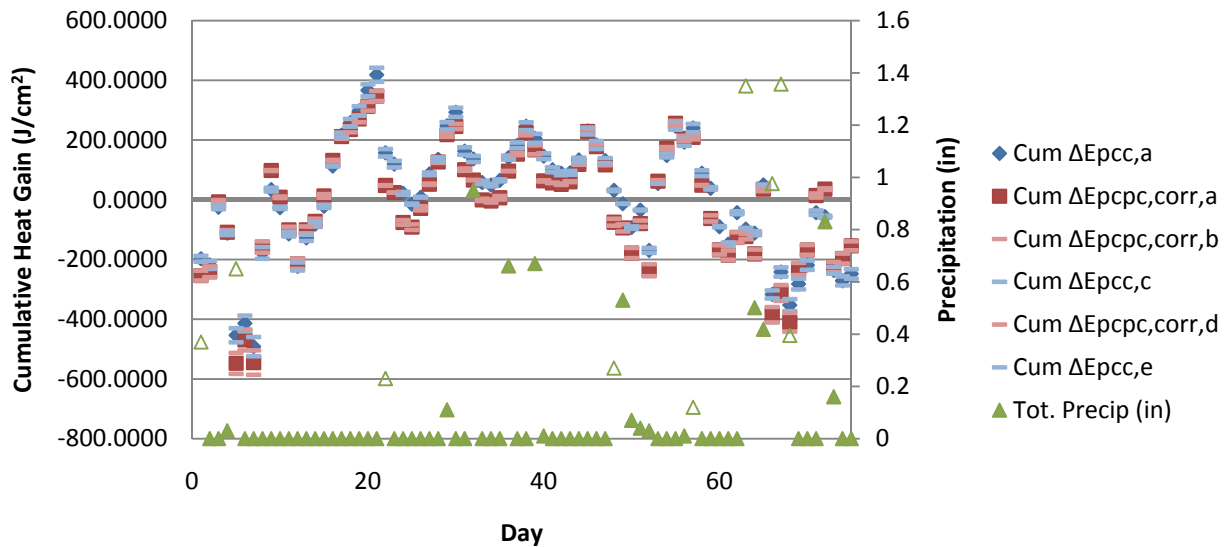


Figure 4.9: Cumulative heat gain during summer 2007 for PCC and PCPC systems plotted with total precipitation and error bars for the C_v cases shown in Table 4.1

Figure 4.9 also shows that the error bars are relatively small, and in no case do the error bars seem to change how the data could be interpreted.

4.4 Extreme Heat Events

Figures 4.5 through 4.7 also show five periods of extreme heat defined by the five peaks of the cumulative heat gain between Day 20 and Day 60. Table 4.2 provides the exact days the maximum air temperature was over 30°C, the highest temperature, and the peak day in each of these extreme heat events. The “peaks” for each extreme heat event represent the day with the highest maximum air temperature in that interval, not the highest cumulative heat gain.

Table 4.2: Extreme Heat Events

Days >30°C	Extreme Heat Event	
	Temperature (°C)	Day
16-21	34.32	21
29-31	33.93	30
38-39	31.53	39
45	30.54	45
53-57	32.84	55

Figures 4.10, 4.12, 4.14, 4.16, and 4.18 are taken from Figure 4.5 (cumulative heat gain and precipitation) and Figures 4.11, 4.13, 4.15, 4.17, and 4.19 are taken from Figure 4.6 (cumulative heat gain and daily air temperature extremes) in order to supply greater detail on each extreme heat event listed in Table 4.2. In each of the five cases the pervious concrete system has a lower cumulative heat gain following the peak of the heat wave, representing a faster breaking of the heat wave for the pervious system as compared to the traditional concrete system. This was more pronounced with the addition of precipitation, and particularly enhanced with daytime rain (compare Figure 4.10 with daytime rain to Figure 4.14 with nighttime rain).

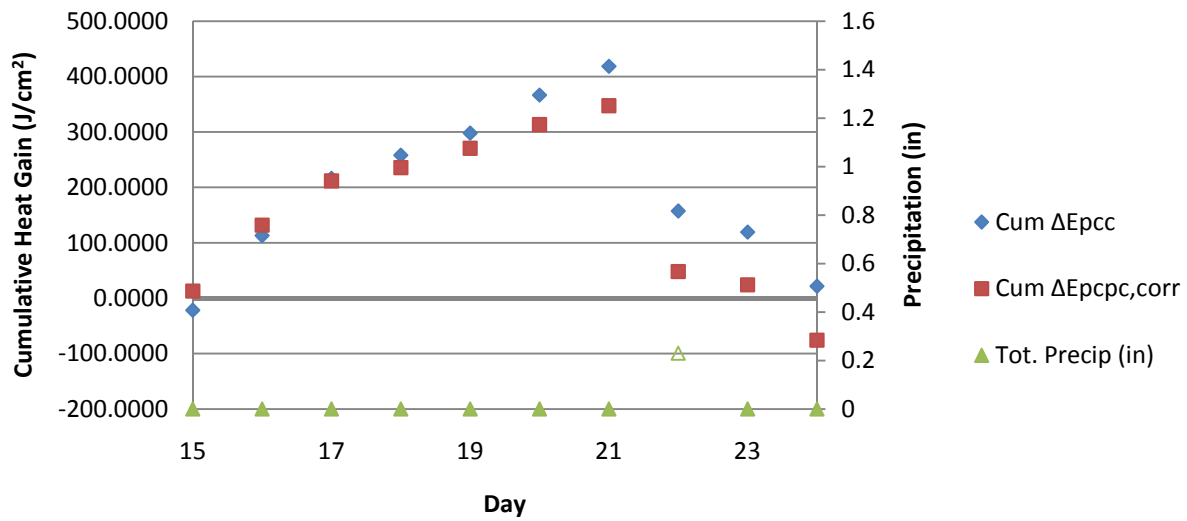


Figure 4.10: Cumulative heat gain for PCC and PCPC systems and precipitation for extreme heat event peaking at Day 21

Figure 4.10 shows a clear drop in cumulative heat gain for both systems corresponding with the daytime rain on Day 22 (shown with an open triangle). However, the cumulative heat gain in the pervious system drops further than the traditional system indicating additional benefits in this case.

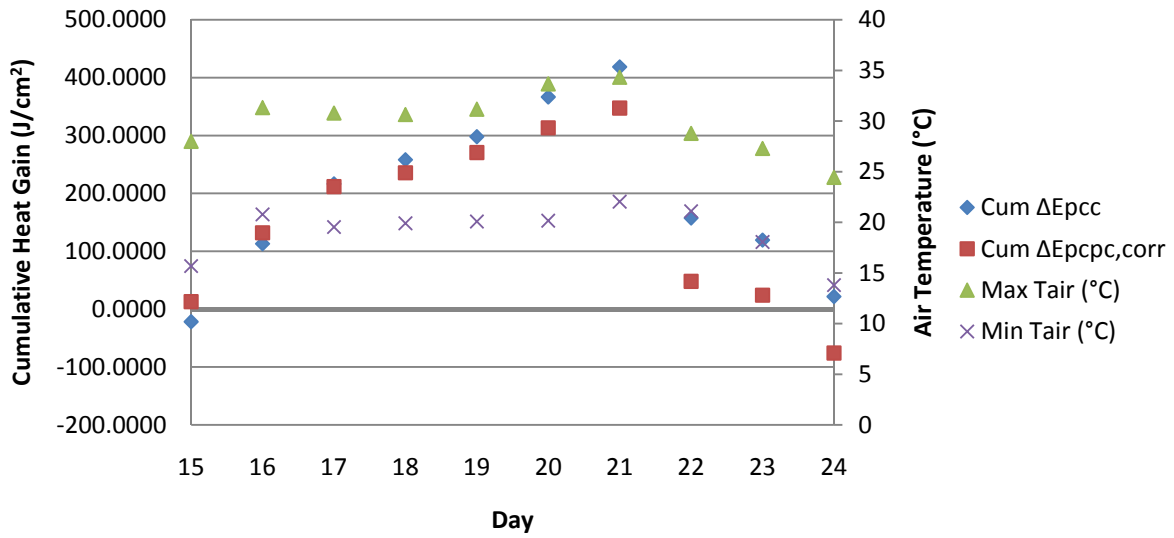


Figure 4.11: Cumulative heat gain for PCC and PCPC systems and air temperature for extreme heat event peaking at Day 21

Figure 4.11 shows the same extreme heat event as Figure 4.10 and a drop in air temperature on Day 22 also corresponding with the daytime rain on Day 22.

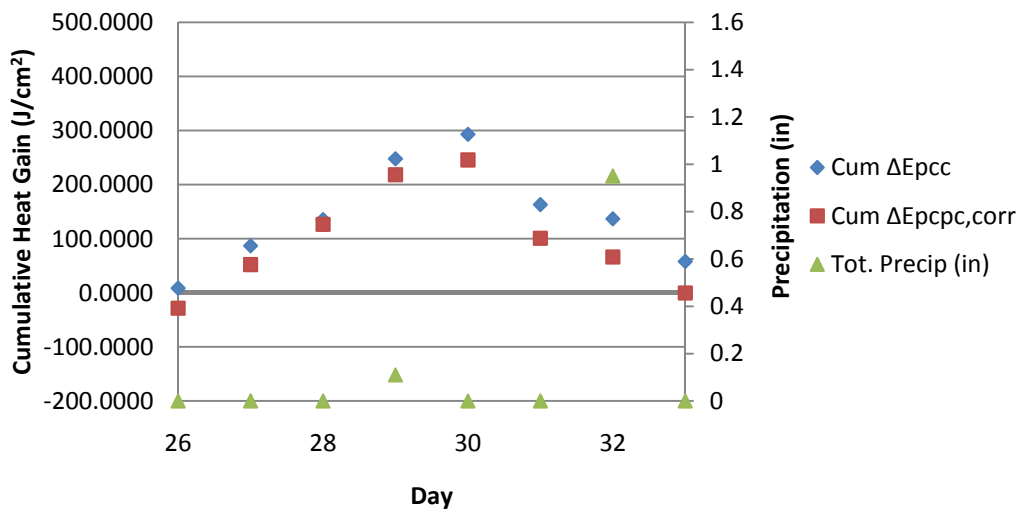


Figure 4.12: Cumulative heat gain for PCC and PCPC systems and precipitation for extreme heat event peaking at Day 30

There is no rain on Day 31 in Figure 4.12 when cumulative heat gains began to drop, and the drop for neither system is large but the pervious system drops slightly more than the traditional concrete system.

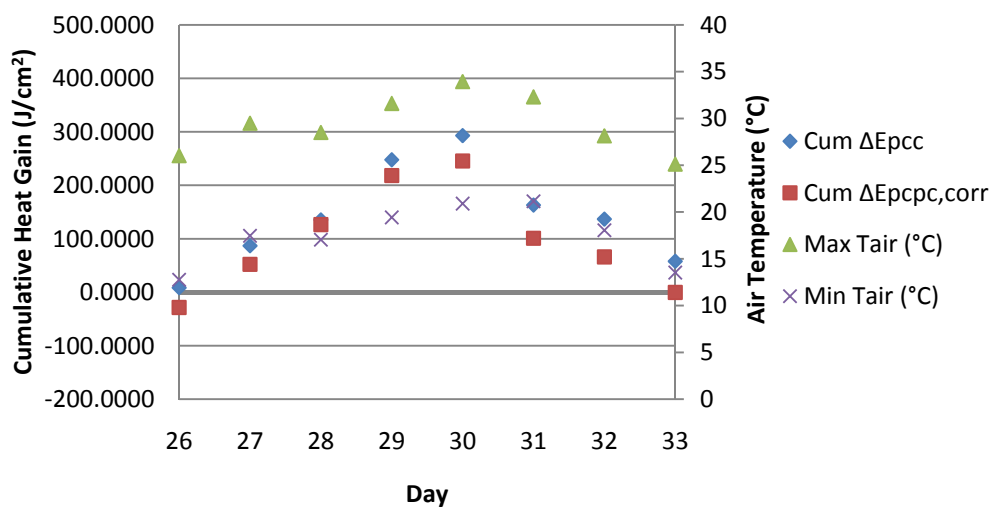


Figure 4.13: Cumulative heat gain for PCC and PCPC systems and air temperature for extreme heat event peaking at Day 30

The extreme heat event shown in Figure 4.12 with precipitation is shown in Figure 4.13 with maximum and minimum air temperatures. The drop in cumulative heat gains for both systems corresponds with a small drop in air temperatures on Day 31. As compared to the extreme heat event centered around Day 21, the end of this event centered around Day 30 appears to be more the result of lower air temperatures than precipitation.

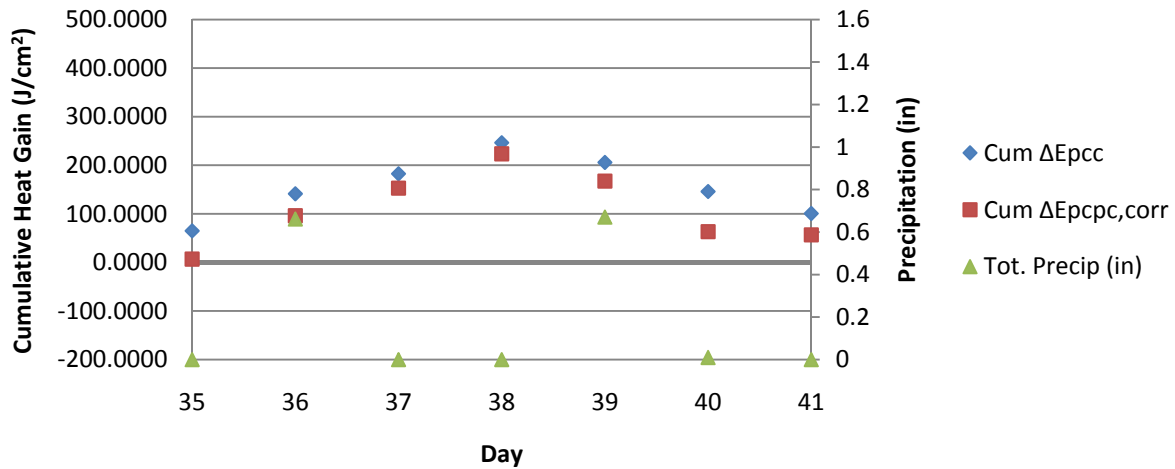


Figure 4.14: Cumulative heat gain for PCC and PCPC systems and precipitation for extreme heat event peaking at Day 39

In Figure 4.14 the drop in cumulative temperatures corresponds to nighttime rain on Day 39. However neither system drops as much as seen in Figures 4.10 and 4.11 when there was daytime rain. Again the cumulative heat stored in the pervious system dropped further than the traditional concrete system.

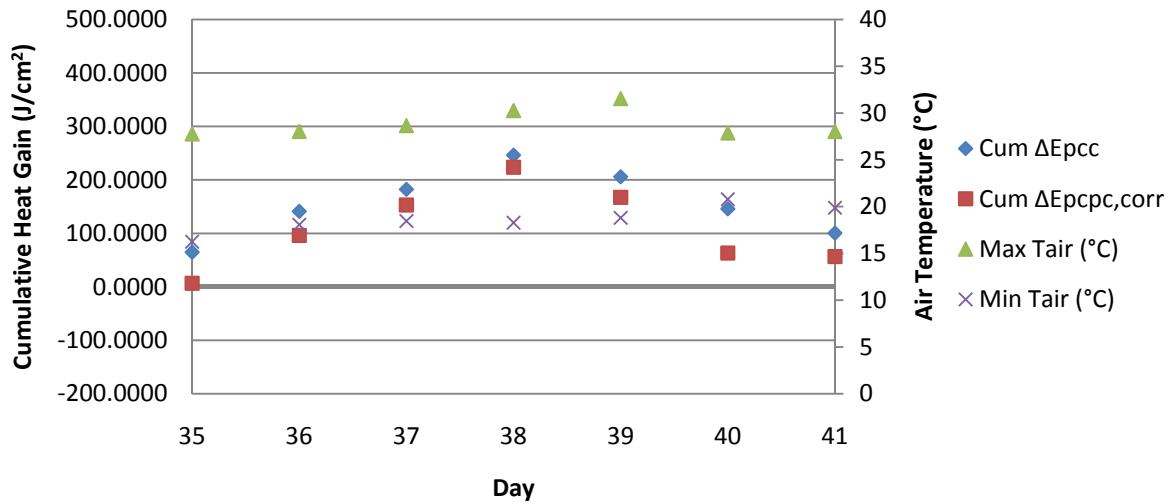


Figure 4.15: Cumulative heat gain for PCC and PCPC systems and air temperature for extreme heat event peaking at Day 39

Figure 4.15 shows the same extreme heat event as in Figure 4.14 and air temperatures. Air temperatures are actually rising when the cumulative heat gain drops on Day 39, but the drop can be accounted for by the large amount of nighttime rain on the same day.

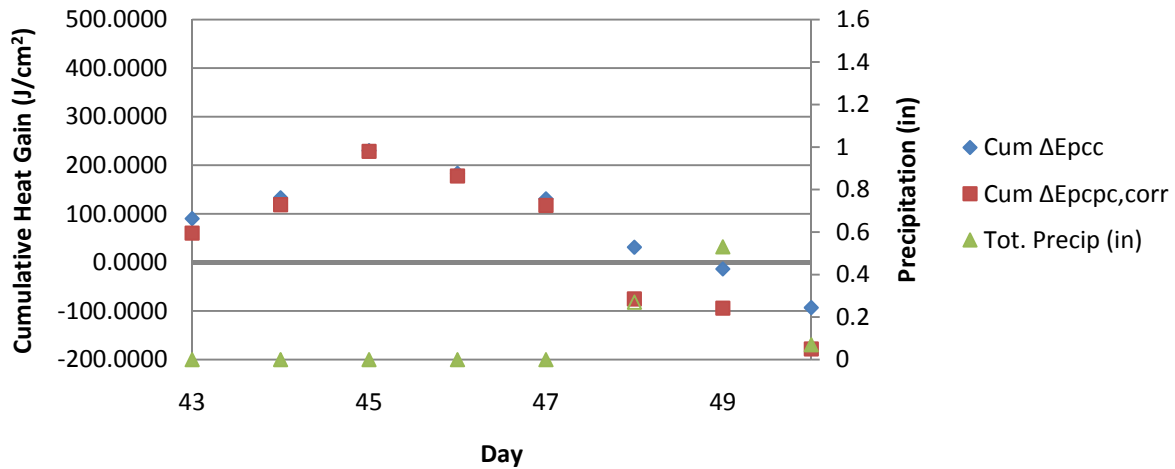


Figure 4.16: Cumulative heat gain for PCC and PCPC systems and precipitation for extreme heat event peaking at Day 45

In Figure 4.16 cumulative heat gains start to drop for both systems on Day 46 with no precipitation event, but the daytime rain on Day 48 (shown with an open triangle) corresponds with a larger drop in the cumulative heat gain for the pervious system as compared to the traditional system.

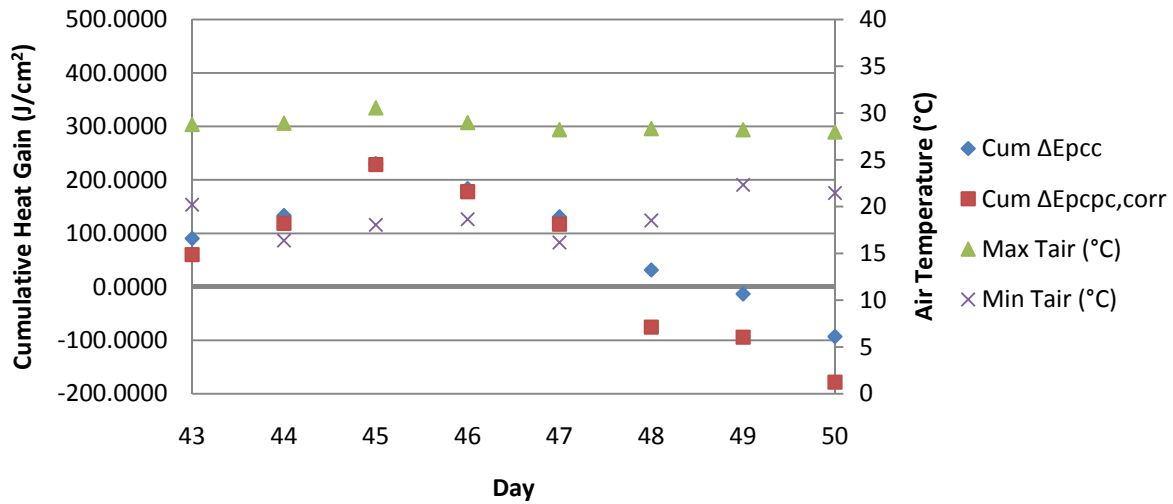


Figure 4.17: Cumulative heat gain for PCC and PCPC systems and air temperature for extreme heat event peaking at Day 45

The maximum air temperature drops corresponding to the drop in cumulative heat gains for both systems on Day 46 in Figure 4.17. Air temperatures rise on Day 48 when the previous system has a large drop that corresponded with the daytime rain shown in Figure 4.16.

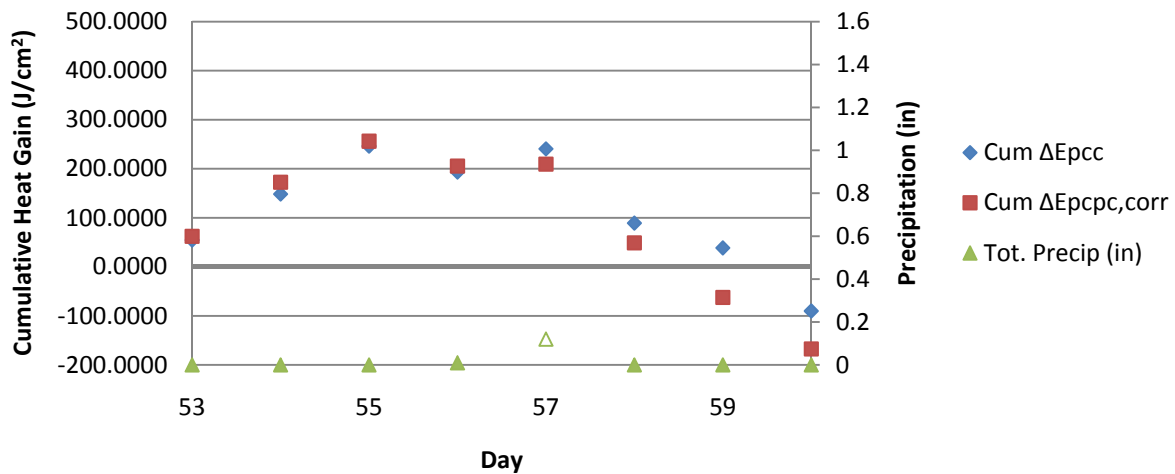


Figure 4.18: Cumulative heat gain for PCC and PCPC systems and precipitation for extreme heat event peaking at Day 55

Figure 4.18 shows cumulative heat gains dropping starting with Day 56 with no rain, followed by a slight gain on Day 57 with a small amount of daytime rain (shown with an open triangle), but then a drop on the following day (Day 58). The pervious system drops slightly further than the traditional system from Day 57 to Day 58.

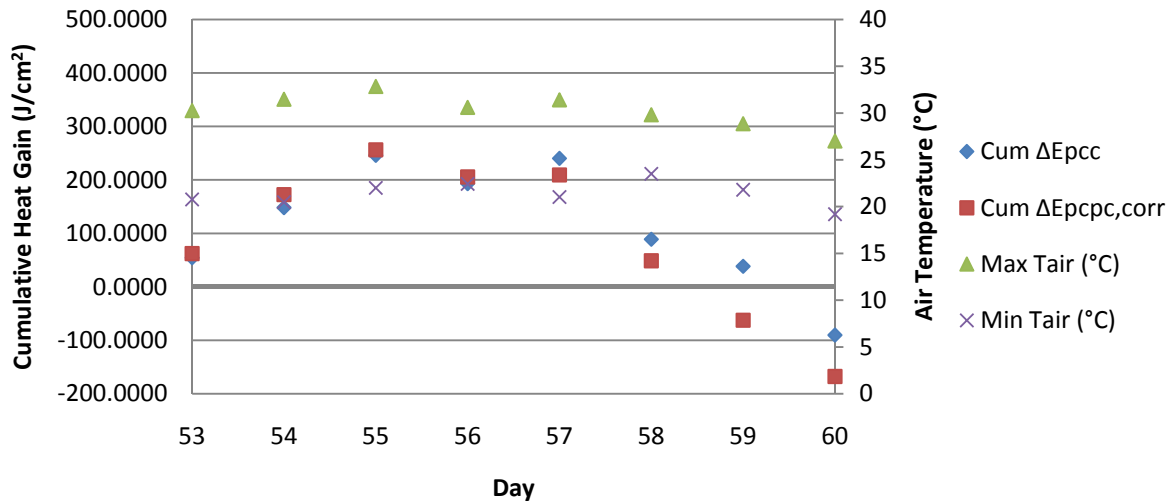


Figure 4.19: Cumulative heat gain for PCC and PCPC systems and air temperature for extreme heat event peaking at Day 55

Figure 4.19 shows air temperatures corresponding with the drop on Day 56 and slight rise in cumulative heat gains for both systems seen in Figure 4.18 following the air temperature trends.

Table 4.3 shows that the pervious concrete system always had a greater drop in cumulative heat gain at the end of an extreme heat event. The range of differences can be accounted at least in part by the effects of rain. When there were large amounts of rain (such as the break from Days 39 to 40) or daytime rain (such as from Days 21 to 22 or Days 47 to 48) the difference between the pervious concrete system's drop in cumulative heat gain was significantly greater than the traditional concrete system's as compared to when there was no rain (the break from Days 30 to 31), or when the rain occurred just before the break and in a smaller amount (as the break from Days 57 to 58).

Table 4.3: Comparison of PCC and PCPC during breaking of extreme heat events with respect to rain

Break Days	Drop in Cumulative Heat Gain			Rain Description at Break
	PCC	PCPC	Difference	
21-22	261	299	38	0.23 inches daytime rain on Day 22
30-31	130	145	15	none
39-40	60	104	44	0.67 inches nighttime rain on Day 39
47-48	100	192	93	0.27 inches daytime rain on Day 48
57-58	151	161	9	0.12 inches daytime rain on Day 57

4.5 Rain Water Impacts

“Table 4.4 summarizes the heat gained or lost in the water and the concrete layers during some representative precipitation events which occurred at the end of a heat wave. The heat losses of the concrete layers are as calculated for the day, and the water heat gain is as calculated for the duration of the rainfall event. The last two columns compare the heat losses overall in the PCPC concrete layer and the PCC concrete layer, including the heat initially absorbed by the water retained in the PCPC concrete layer. The values are similar, but usually higher for the PCPC system. When the values of the heat lost to the water are compared to the overall heat losses after the heat waves as depicted in Figure 4.5, it can be seen that the pervious concrete system has additional heat loss subsequent to the rainfall event hours listed in Table 4.4. This is indicative of evaporative cooling after the rain event has passed” (Haselbach et al. 2011).

Table 4.4: Effect of water on the PCPC system as compared to the PCC system for daytime rain (Haselbach et al. 2011)

Day	Rain Event Time (hrs)	Total Rain in Event (cm)	Average Air Temp (°C)	Average PCPC Layer Temp (°C)	Water Heat Gain in PCPC Layer (J/cm ²)	Daily Heat Loss in PC in PCPC Layer (J/cm ²)	Daily Heat Loss (Including Water) in PCPC Layer (J/cm ²)	Daily Heat Loss in PCC Layer (J/cm ²)
22	2	0.58	21	29	19	293	274	261
48	3	0.69	19	27	22	192	170	146
57	3	0.30	22	30	10	156	146	157

5. Conclusions and Recommendations

“The results for the analysis of heat gain of a pervious concrete (PCPC) system compared to a traditional concrete (PCC) pavement system support the hypothesis that a pervious concrete system behaves similarly to a traditional concrete system with a similar material mix with respect to heat gain and loss during the summer for days with little or no precipitation even though the PCPC pavement layer has a much lower SRI. This further confirms the hypothesis that the use of the SRI singly is not necessarily an appropriate method for ranking pervious concrete pavements as cool pavements for urban heat island mitigation. Pervious concrete pavement systems with SRI values much less than 29 perform similarly to traditional concrete systems with SRI values above 29. Pervious concrete pavement systems should be considered for use as cool pavements based on additional criteria such as porosity ” (Haselbach et al. 2011).

“The heat gain for both systems generally followed the trends of the air temperatures, although some large decreases not accounted for by air temperatures relate to the effects of rain, particularly daytime rain. Rain at night did not have the same decreasing effect to daily heat gain as daytime rain, and this could be explained by the fact that daytime rain would mean clouds obscuring the sun for at least part of the day decreasing solar radiation. One difference noted was in cooling trends after heat waves or peaks. The pervious concrete system cooled faster than the traditional concrete system, which could potentially help make a positive difference in the urban heat island effect at a time when the increased heat may be causing heat related illnesses and increased energy demands. This indicates an additional benefit of pervious concrete in mitigating the urban heat island effect, not reflected in the SRI comparisons used in the LEED rating system” (Haselbach et al. 2011).

“As was seen in Figure 4.2, the concrete layers had the largest impact on the heat storage of each system. In addition, including additional depths of aggregate below the pervious concrete layer, or variations in the depth to the constant background temperature between the two systems were not significant. This implies that the design of the pervious concrete layer has the greatest impact on the capacity of a pervious concrete system to mitigate urban heat island effects” (Haselbach et al. 2011).

“The two systems reacted slightly differently as the summer progressed. In the early to middle summer time periods, the traditional concrete pavement system retained more heat, but by late summer, the pervious system appeared to remain slightly warmer than the traditional concrete as evidenced in Figure 4.5. This might be explained by the warmer background temperatures in the soil, as were accumulated over the summer, being insulated from cooling by the now cooler air temperatures above the pervious concrete systems. However, heat waves were no longer experienced during this time” (Haselbach et al. 2011).

“The heat capacity sensitivity analysis demonstrated that the assumed heat capacities of the soil or aggregate layers were adequate for estimating the system heat gain for either the pervious or the traditional concrete system” (Haselbach et al. 2011).

“Stored rain water in the pervious concrete layer had a significant impact on the heat gain in the pervious concrete system, but this rain would then evaporate, improving the heat mitigation by evaporative cooling” (Haselbach et al. 2011). Additional research would be needed to consider water in the storage layer below as well as evaporation rates.

“Further research needs to be performed on the pervious concrete layer to map temperatures more accurately, with varying depths, varying porosities, various material characteristics and for various climates in order to develop formulations for designing pervious concrete systems which are effective in mitigating the urban heat island effect. Additional research into the impact of various designs for the aggregate storage layer would also be useful, but the pervious concrete layer controlled most of the heat gain and loss in the system and will most likely be the critical design element” (Haselbach et al. 2011). For this site, complete weather data is available for a detailed finite element analysis that would be able to better define how a pervious concrete system works in terms of heat transfer and UHI mitigation. Also, a life cycle analysis could be helpful to balance environmental, energy and economic considerations in design. Due to the influence of water in the system, lab tests for various aggregate sizes and porosities to determine the water retained after rain and to measure evaporation rates based on mass changes over time under various conditions could also be helpful.

In summary, the systems were found to be adequately characterized in terms of heat capacities and the background temperature assumption. The pervious concrete system with a low SRI was found to respond similarly to a traditional concrete system with a higher SRI for overall heat storage. Both systems followed air temperature trends alike, but the pervious concrete’s performance with respect to UHI mitigation seemed to be enhanced with precipitation. It was found that water had a significant impact on the pervious concrete system.

6. References

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7. Appendix

Table A1- Raw temperature data collected summer 2007

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
6/18/2007 0:00	0	25								
6/18/2007 1:00	0	24.39								
6/18/2007 2:00	0	23.96								
6/18/2007 3:00	0	23.38	31.01	32.73	27.05	23.42	30	31.07	29.98	25.91
6/18/2007 4:00	0	22.67	30.26	32.45	27.1	23.44	29.37	30.51	29.9	25.95
6/18/2007 5:00	0	22.09	29.46	32.11	27.15	23.45	28.75	29.94	29.78	25.97
6/18/2007 6:00	0	21.88	28.83	31.85	27.15	23.45	28.21	29.42	29.66	26
6/18/2007 7:00	0	22.15	28.59	31.51	27.15	23.48	27.98	28.99	29.54	26.04
6/18/2007 8:00	0	22.37	28.65	31.18	27.15	23.51	27.98	28.75	29.38	26.04
6/18/2007 9:00	0	23.07	29.05	30.83	27.14	23.51	28.12	28.62	29.21	26.07
6/18/2007 10:00	0	23.66	29.43	30.56	27.12	23.52	28.4	28.64	29.07	26.09
6/18/2007 11:00	0	24.12	29.67	30.32	27.1	23.55	28.49	28.72	28.95	26.09
6/18/2007 12:00	0	24.88	31.54	30.16	27.06	23.55	29.73	29.07	28.81	26.1
6/18/2007 13:00	0	25.25	32.14	30.05	27.02	23.57	30.2	29.51	28.73	26.1
6/18/2007 14:00	0.11	24.76	33.36	29.97	26.98	23.59	31.12	30.07	28.66	26.1
6/18/2007 15:00	0.26	22.41	32.31	29.96	26.91	23.59	30.29	30.19	28.58	26.1
6/18/2007 16:00	0	23.25	31.31	30.07	26.89	23.63	29.87	29.83	28.56	26.09
6/18/2007 17:00	0	24.15	31.22	30.07	26.82	23.62	29.87	29.83	28.56	26.11
6/18/2007 18:00	0	24.75	31.93	30.04	26.8	23.64	30.44	29.87	28.53	26.1
6/18/2007 19:00	0	24.86	32.13	29.99	26.76	23.64	30.54	30.12	28.5	26.1
6/18/2007 20:00	0	24.14	31.47	29.96	26.72	23.64	30.03	30.04	28.46	26.04
6/18/2007 21:00	0	22.97	30.64	29.95	26.71	23.66	29.39	29.79	28.45	26.05
6/18/2007 22:00	0	21.57	29.53	29.91	26.68	23.64	28.57	29.36	28.41	26.02
6/18/2007 23:00	0	20.15	28.36	29.78	26.69	23.65	27.68	28.79	28.42	26.04
6/19/2007 0:00	0	18.41	27.22	29.67	26.63	23.65	26.79	28.16	28.36	26.01
6/19/2007 1:00	0	18.27	26.1	29.49	26.65	23.67	25.92	27.52	28.31	25.99
6/19/2007 2:00	0	18.54	25.12	29.25	26.6	23.67	25.11	26.8	28.2	26
6/19/2007 3:00	0	16.7	24.16	28.94	26.59	23.68	24.35	26.19	28.09	26
6/19/2007 4:00	0	15.11	23.29	28.65	26.53	23.7	23.61	25.59	27.96	25.95
6/19/2007 5:00	0	15.02	22.45	28.27	26.52	23.67	22.89	24.95	27.8	25.95
6/19/2007 6:00	0	14.27	21.71	27.93	26.47	23.67	22.24	24.36	27.59	25.96
6/19/2007 7:00	0	15.36	21.32	27.59	26.4	23.68	21.9	23.85	27.44	25.93
6/19/2007 8:00	0	17.87	21.31	27.24	26.35	23.7	22.22	23.58	27.2	25.9
6/19/2007 9:00	0	19.68	22.08	26.9	26.31	23.7	23.29	23.79	27.05	25.87
6/19/2007 10:00	0	20.93	24.62	26.58	26.23	23.69	24.88	24.41	26.85	25.87
6/19/2007 11:00	0	21.81	27.39	26.38	26.16	23.68	26.66	25.41	26.67	25.84
6/19/2007 12:00	0	22.31	29.83	26.26	26.07	23.68	28.26	26.51	26.56	25.82
6/19/2007 13:00	0	23.78	32.56	26.29	25.99	23.67	30.15	27.75	26.5	25.78
6/19/2007 14:00	0	24.73	35.3	26.47	25.92	23.67	32.18	29.16	26.49	25.74
6/19/2007 15:00	0	24.59	36.09	26.77	25.82	23.65	32.83	30.37	26.51	25.72
6/19/2007 16:00	0	24.89	36.14	27.18	25.74	23.62	32.93	30.96	26.61	25.65
6/19/2007 17:00	0	24.9	36.13	27.63	25.68	23.62	33.01	31.33	26.75	25.61
6/19/2007 18:00	0	24.84	36.51	28.08	25.64	23.61	33.23	31.62	26.95	25.56
6/19/2007 19:00	0	25.17	36.44	28.44	25.62	23.59	33.09	31.77	27.08	25.54
6/19/2007 20:00	0	24.59	35.37	28.83	25.62	23.59	32.28	31.68	27.23	25.53

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
6/19/2007 21:00	0	21.47	33.53	29.09	25.57	23.54	31.02	31.2	27.4	25.49
6/19/2007 22:00	0	18.37	31.63	29.33	25.61	23.55	29.66	30.42	27.5	25.44
6/19/2007 23:00	0	17.08	29.94	29.38	25.61	23.55	28.44	29.55	27.59	25.44
6/20/2007 0:00	0	17.07	28.46	29.4	25.62	23.53	27.32	28.69	27.61	25.41
6/20/2007 1:00	0	16.39	27.15	29.25	25.67	23.54	26.36	27.88	27.63	25.42
6/20/2007 2:00	0	15.41	26	29.08	25.73	23.49	25.45	27.13	27.58	25.4
6/20/2007 3:00	0	14.75	25.02	28.81	25.73	23.5	24.67	26.39	27.5	25.38
6/20/2007 4:00	0	14.63	24.18	28.5	25.73	23.5	24.04	25.77	27.43	25.38
6/20/2007 5:00	0	14.42	23.41	28.19	25.76	23.5	23.4	25.19	27.28	25.38
6/20/2007 6:00	0	14.65	22.69	27.89	25.77	23.47	22.81	24.65	27.14	25.38
6/20/2007 7:00	0	15.52	22.3	27.55	25.75	23.47	22.46	24.16	26.97	25.39
6/20/2007 8:00	0	18.69	22.29	27.2	25.74	23.46	22.82	23.94	26.79	25.38
6/20/2007 9:00	0	22.32	22.94	26.89	25.72	23.48	24.03	24.17	26.64	25.38
6/20/2007 10:00	0	24.53	25.9	26.61	25.67	23.47	25.86	24.95	26.46	25.38
6/20/2007 11:00	0	25.87	29.42	26.43	25.64	23.47	28.06	26.13	26.32	25.38
6/20/2007 12:00	0	27	33.03	26.36	25.57	23.45	30.45	27.61	26.22	25.35
6/20/2007 13:00	0	28.03	36.39	26.46	25.55	23.46	32.77	29.23	26.19	25.33
6/20/2007 14:00	0	28.83	39.33	26.74	25.47	23.45	34.86	30.91	26.27	25.31
6/20/2007 15:00	0	29.35	41.71	27.23	25.42	23.46	36.63	32.46	26.34	25.26
6/20/2007 16:00	0	29.87	43.34	27.8	25.38	23.43	37.81	33.8	26.53	25.23
6/20/2007 17:00	0	29.99	44.05	28.46	25.35	23.41	38.5	34.82	26.73	25.21
6/20/2007 18:00	0	29.93	43.91	29.24	25.35	23.41	38.49	35.47	27.02	25.21
6/20/2007 19:00	0	29.28	42.79	29.92	25.35	23.41	37.85	35.58	27.32	25.14
6/20/2007 20:00	0	28.27	41.07	30.56	25.37	23.36	36.68	35.34	27.61	25.16
6/20/2007 21:00	0	26.42	38.89	31.01	25.4	23.37	35.17	34.7	27.87	25.11
6/20/2007 22:00	0	23.86	36.8	31.39	25.45	23.36	33.74	33.86	28.11	25.13
6/20/2007 23:00	0	22.97	34.94	31.54	25.53	23.34	32.45	32.93	28.27	25.13
6/21/2007 0:00	0	22.51	33.4	31.61	25.62	23.35	31.33	32.08	28.41	25.15
6/21/2007 1:00	0	21.95	32.1	31.54	25.73	23.33	30.38	31.25	28.5	25.17
6/21/2007 2:00	0	21.87	31.09	31.42	25.82	23.31	29.62	30.51	28.52	25.18
6/21/2007 3:00	0	21.36	30.19	31.18	25.9	23.31	28.97	29.9	28.52	25.2
6/21/2007 4:00	0	20.95	29.38	30.93	25.97	23.31	28.28	29.3	28.44	25.23
6/21/2007 5:00	0	20.11	28.59	30.68	26.04	23.31	27.67	28.75	28.36	25.25
6/21/2007 6:00	0	19.92	27.84	30.37	26.05	23.32	27.08	28.21	28.29	25.26
6/21/2007 7:00	0	20.71	27.38	30.12	26.13	23.32	26.71	27.76	28.18	25.33
6/21/2007 8:00	0	22.76	27.52	29.78	26.11	23.31	26.9	27.52	28.05	25.32
6/21/2007 9:00	0	24.91	28.24	29.53	26.18	23.37	27.66	27.63	27.95	25.39
6/21/2007 10:00	0	26.68	30.22	29.29	26.18	23.38	28.94	28.09	27.82	25.39
6/21/2007 11:00	0	27.81	32.92	29.13	26.15	23.38	30.72	28.94	27.71	25.43
6/21/2007 12:00	0	28.87	36.15	29.07	26.13	23.39	32.99	30.17	27.63	25.4
6/21/2007 13:00	0	30.15	39.5	29.12	26.1	23.37	35.34	31.67	27.58	25.44
6/21/2007 14:00	0	31.26	42.24	29.37	26.09	23.42	37.39	33.3	27.65	25.45
6/21/2007 15:00	0	31.74	44.36	29.83	26.09	23.43	39.07	34.77	27.72	25.45
6/21/2007 16:00	0	31.54	44.62	30.37	26.09	23.43	39.28	35.9	27.91	25.45
6/21/2007 17:00	0	29.45	43.36	30.98	26.09	23.43	38.43	36.2	28.11	25.45
6/21/2007 18:00	0.03	20.92	38.89	31.56	26.09	23.42	35.39	35.52	28.37	25.44
6/21/2007 19:00	0	21.06	35.53	31.99	26.09	23.42	33.04	34.04	28.6	25.44
6/21/2007 20:00	0	20.74	33.69	32.19	26.17	23.44	31.86	32.8	28.82	25.46
6/21/2007 21:00	0	20.59	32.37	32.15	26.22	23.44	31.01	31.93	28.91	25.46

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
6/21/2007 22:00	0	19.85	31.12	31.99	26.26	23.45	30.08	31.09	28.96	25.46
6/21/2007 23:00	0	19.79	30.1	31.78	26.34	23.45	29.25	30.36	28.95	25.47
6/22/2007 0:00	0	19.66	29.24	31.47	26.42	23.46	28.61	29.72	28.92	25.52
6/22/2007 1:00	0	19.51	28.54	31.2	26.43	23.47	28	29.17	28.85	25.56
6/22/2007 2:00	0	19.69	27.93	30.87	26.5	23.48	27.54	28.67	28.77	25.56
6/22/2007 3:00	0	19.59	27.32	30.54	26.51	23.53	27.02	28.24	28.62	25.62
6/22/2007 4:00	0	19.89	26.93	30.22	26.55	23.54	26.73	27.78	28.51	25.63
6/22/2007 5:00	0	20.47	26.65	29.88	26.57	23.53	26.5	27.47	28.38	25.63
6/22/2007 6:00	0.23	20.46	25.55	29.56	26.57	23.53	25.91	27.16	28.23	25.67
6/22/2007 7:00	0.01	19.59	24.9	29.19	26.58	23.54	25.21	26.65	28.08	25.71
6/22/2007 8:00	0	19.98	24.57	28.86	26.58	23.56	24.86	26.21	27.93	25.71
6/22/2007 9:00	0	20.37	24.83	28.53	26.57	23.6	25.05	25.99	27.77	25.7
6/22/2007 10:00	0	21.51	25.19	28.21	26.52	23.58	25.38	25.97	27.64	25.68
6/22/2007 11:00	0	21	25.97	27.98	26.48	23.62	26	26.19	27.51	25.72
6/22/2007 12:00	0	20.48	26.41	27.82	26.41	23.62	26.26	26.41	27.37	25.7
6/22/2007 13:00	0	21.97	27.28	27.66	26.36	23.64	26.84	26.69	27.25	25.71
6/22/2007 14:00	0	23.44	27.95	27.53	26.3	23.63	27.28	27	27.15	25.69
6/22/2007 15:00	0.18	22.34	27.35	27.5	26.24	23.63	26.83	27.12	27.08	25.66
6/22/2007 16:00	0.09	21.34	26.77	27.44	26.19	23.65	26.4	26.92	27.03	25.66
6/22/2007 17:00	0.13	19.94	25.83	27.38	26.11	23.65	25.75	26.63	27	25.62
6/22/2007 18:00	0.01	19.28	24.91	27.31	26.05	23.66	25.05	26.2	26.93	25.62
6/22/2007 19:00	0	19.16	24.15	27.17	26	23.67	24.36	25.7	26.87	25.61
6/22/2007 20:00	0	19.3	23.67	27.02	25.99	23.67	23.88	25.21	26.8	25.56
6/22/2007 21:00	0	19.31	23.33	26.8	25.92	23.67	23.61	24.85	26.73	25.56
6/22/2007 22:00	0	19.15	23.09	26.6	25.85	23.67	23.4	24.57	26.58	25.52
6/22/2007 23:00	0	19.05	22.86	26.43	25.78	23.67	23.27	24.36	26.51	25.49
6/23/2007 0:00	0	19.02	22.61	26.21	25.77	23.68	23.13	24.16	26.36	25.49
6/23/2007 1:00	0	18.8	22.46	26	25.71	23.67	23	24.02	26.21	25.43
6/23/2007 2:00	0	18.59	22.27	25.78	25.63	23.67	22.86	23.88	26.14	25.42
6/23/2007 3:00	0	18.57	22.13	25.63	25.56	23.67	22.8	23.74	26	25.4
6/23/2007 4:00	0	18.06	21.87	25.42	25.49	23.67	22.64	23.61	25.85	25.35
6/23/2007 5:00	0	17.79	21.64	25.28	25.42	23.61	22.4	23.47	25.78	25.35
6/23/2007 6:00	0	17.46	21.41	25.07	25.35	23.61	22.2	23.27	25.64	25.28
6/23/2007 7:00	0	17.1	21.22	24.93	25.28	23.61	22.07	23.13	25.57	25.28
6/23/2007 8:00	0	16.98	21.29	24.75	25.21	23.61	22.07	23	25.42	25.21
6/23/2007 9:00	0	17.31	21.44	24.59	25.14	23.61	22.13	23	25.35	25.21
6/23/2007 10:00	0	17.8	21.92	24.46	25.06	23.6	22.4	23	25.21	25.14
6/23/2007 11:00	0	17.77	22.73	24.36	24.99	23.56	22.93	23.2	25.14	25.13
6/23/2007 12:00	0	18.46	24.16	24.27	24.96	23.53	23.86	23.59	25.04	25.05
6/23/2007 13:00	0	20.05	26.69	24.19	24.89	23.54	25.54	24.33	24.99	25.03
6/23/2007 14:00	0	21.67	29.22	24.25	24.81	23.52	27.26	25.37	24.94	24.98
6/23/2007 15:00	0	21.47	30.95	24.36	24.75	23.48	28.43	26.49	24.92	24.92
6/23/2007 16:00	0	22.18	31.37	24.62	24.68	23.47	28.79	27.21	24.96	24.89
6/23/2007 17:00	0	21.91	31.46	24.94	24.63	23.44	28.89	27.66	25.03	24.86
6/23/2007 18:00	0	21.89	31.14	25.29	24.59	23.42	28.75	27.87	25.12	24.83
6/23/2007 19:00	0	21.81	30.81	25.63	24.56	23.42	28.56	27.87	25.25	24.77
6/23/2007 20:00	0	21.83	30.22	25.88	24.52	23.37	28.19	27.81	25.33	24.74
6/23/2007 21:00	0	20.59	29.05	26.12	24.51	23.35	27.41	27.57	25.44	24.69
6/23/2007 22:00	0	19.63	27.97	26.3	24.51	23.34	26.7	27.14	25.53	24.67

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
6/23/2007 23:00	0	19.3	26.92	26.39	24.48	23.31	25.9	26.63	25.6	24.62
6/24/2007 0:00	0	18.68	25.91	26.42	24.49	23.3	25.19	26.13	25.62	24.63
6/24/2007 1:00	0	18.1	24.93	26.36	24.5	23.27	24.43	25.56	25.63	24.57
6/24/2007 2:00	0	17.5	24.07	26.25	24.5	23.27	23.74	24.99	25.59	24.57
6/24/2007 3:00	0	16.63	23.29	26.11	24.52	23.22	23.14	24.51	25.58	24.58
6/24/2007 4:00	0	15.73	22.55	25.95	24.53	23.22	22.54	23.97	25.52	24.53
6/24/2007 5:00	0	15.61	22.32	25.73	24.53	23.22	22.36	23.56	25.38	24.53
6/24/2007 6:00	0	16.43	22.25	25.52	24.53	23.2	22.32	23.36	25.3	24.53
6/24/2007 7:00	0	17.09	22.25	25.3	24.53	23.16	22.35	23.22	25.2	24.53
6/24/2007 8:00	0	17.97	22.33	25.1	24.5	23.13	22.4	23.14	25.07	24.5
6/24/2007 9:00	0	18.41	22.53	24.92	24.5	23.13	22.46	23.13	24.94	24.5
6/24/2007 10:00	0	18.7	22.93	24.78	24.5	23.13	22.73	23.2	24.85	24.43
6/24/2007 11:00	0	18.55	23.53	24.64	24.43	23.13	23.13	23.33	24.78	24.43
6/24/2007 12:00	0	19.41	23.86	24.55	24.41	23.11	23.38	23.52	24.69	24.41
6/24/2007 13:00	0	19.83	24.59	24.48	24.35	23.11	23.83	23.72	24.62	24.41
6/24/2007 14:00	0	20.5	25.68	24.48	24.34	23.11	24.55	24.13	24.55	24.37
6/24/2007 15:00	0	21.4	26.53	24.46	24.29	23.08	25.17	24.53	24.53	24.33
6/24/2007 16:00	0	21.56	27.49	24.49	24.25	23.05	25.86	25.01	24.49	24.31
6/24/2007 17:00	0	21.69	28.45	24.59	24.21	23.05	26.57	25.55	24.49	24.28
6/24/2007 18:00	0	21.85	28.6	24.73	24.17	23.02	26.71	25.92	24.52	24.25
6/24/2007 19:00	0	21.73	28.41	24.87	24.14	23.02	26.6	26.09	24.56	24.21
6/24/2007 20:00	0	21.35	27.73	25.03	24.11	22.99	26.21	26.06	24.6	24.18
6/24/2007 21:00	0	21.08	27.07	25.18	24.1	22.97	25.79	25.9	24.67	24.17
6/24/2007 22:00	0	20.67	26.33	25.32	24.06	22.98	25.32	25.65	24.69	24.13
6/24/2007 23:00	0	20.4	25.75	25.32	24.06	22.97	24.97	25.39	24.74	24.12
6/25/2007 0:00	0	20.14	25.18	25.36	24.06	22.91	24.62	25.11	24.76	24.08
6/25/2007 1:00	0	19.3	24.63	25.33	24.07	22.92	24.14	24.84	24.77	24.07
6/25/2007 2:00	0	17.82	23.74	25.28	24.09	22.93	23.47	24.43	24.76	24.09
6/25/2007 3:00	0	17.41	22.93	25.21	24.05	22.86	22.8	23.95	24.71	24.02
6/25/2007 4:00	0	17.2	22.2	25.09	24.04	22.89	22.22	23.49	24.67	24.04
6/25/2007 5:00	0	16.65	21.63	24.95	24.04	22.89	21.76	23.02	24.6	24.04
6/25/2007 6:00	0	17.26	21.5	24.74	24.04	22.88	21.7	22.75	24.53	23.98
6/25/2007 7:00	0	17.37	21.45	24.59	24.04	22.85	21.63	22.58	24.46	23.97
6/25/2007 8:00	0	18.07	21.64	24.37	24.02	22.8	21.74	22.47	24.37	23.95
6/25/2007 9:00	0	19.65	22.6	24.23	24	22.8	22.37	22.6	24.23	23.95
6/25/2007 10:00	0	21.96	24.52	24.06	23.96	22.83	23.6	23.04	24.17	23.93
6/25/2007 11:00	0	24.12	27.51	24	23.93	22.81	25.65	23.94	24.07	23.93
6/25/2007 12:00	0	25.68	31.02	24.02	23.91	22.8	28.13	25.34	24.05	23.91
6/25/2007 13:00	0	26.91	34.18	24.16	23.87	22.77	30.48	27.01	24.03	23.89
6/25/2007 14:00	0	28.05	36.78	24.48	23.82	22.77	32.5	28.62	24.09	23.85
6/25/2007 15:00	0	28.46	38.91	24.93	23.8	22.73	34.18	30.11	24.22	23.8
6/25/2007 16:00	0	29.04	40.32	25.54	23.8	22.72	35.38	31.47	24.42	23.8
6/25/2007 17:00	0	29.31	41.15	26.17	23.77	22.69	36.2	32.49	24.63	23.77
6/25/2007 18:00	0	29.57	41.18	26.9	23.77	22.69	36.39	33.21	24.95	23.77
6/25/2007 19:00	0	29.32	40.24	27.57	23.77	22.69	35.9	33.48	25.23	23.74
6/25/2007 20:00	0	28.66	38.85	28.18	23.84	22.69	34.98	33.31	25.52	23.7
6/25/2007 21:00	0	27.18	37.04	28.68	23.87	22.66	33.8	32.9	25.81	23.73
6/25/2007 22:00	0	25.91	35.29	29.08	23.94	22.65	32.57	32.24	26.09	23.7
6/25/2007 23:00	0	25.07	33.72	29.32	24.02	22.63	31.45	31.48	26.28	23.71

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
6/26/2007 0:00	0	24.19	32.38	29.43	24.11	22.65	30.52	30.77	26.45	23.73
6/26/2007 1:00	0	23.43	31.23	29.43	24.21	22.62	29.67	30.07	26.56	23.76
6/26/2007 2:00	0	23.01	30.24	29.36	24.32	22.62	28.88	29.43	26.61	23.77
6/26/2007 3:00	0	22.31	29.37	29.29	24.4	22.63	28.2	28.82	26.66	23.82
6/26/2007 4:00	0	21.97	28.67	29.12	24.48	22.63	27.65	28.28	26.66	23.86
6/26/2007 5:00	0	21.81	27.98	28.91	24.55	22.62	27.12	27.82	26.63	23.88
6/26/2007 6:00	0	21.71	27.37	28.7	24.62	22.63	26.63	27.37	26.55	23.92
6/26/2007 7:00	0	21.88	27	28.51	24.69	22.64	26.26	26.96	26.51	23.94
6/26/2007 8:00	0	23.57	27.07	28.28	24.73	22.64	26.55	26.77	26.44	23.99
6/26/2007 9:00	0	25.08	27.62	28.04	24.77	22.63	27.44	26.95	26.36	24.02
6/26/2007 10:00	0	26.45	30.11	27.85	24.82	22.67	29	27.55	26.28	24.06
6/26/2007 11:00	0	27.63	33.21	27.74	24.83	22.67	30.96	28.55	26.22	24.1
6/26/2007 12:00	0	28.94	36.44	27.75	24.84	22.65	33.1	29.86	26.19	24.08
6/26/2007 13:00	0	30.06	39.55	27.91	24.84	22.68	35.27	31.41	26.19	24.14
6/26/2007 14:00	0	30.74	42.17	28.21	24.83	22.72	37.23	32.92	26.27	24.14
6/26/2007 15:00	0	31.19	43.98	28.65	24.81	22.69	38.54	34.3	26.44	24.14
6/26/2007 16:00	0	31.18	44.81	29.27	24.88	22.69	39.26	35.33	26.61	24.18
6/26/2007 17:00	0	31.77	45.14	29.93	24.88	22.76	39.61	36.04	26.9	24.18
6/26/2007 18:00	0	31.63	44.73	30.56	24.94	22.75	39.38	36.48	27.18	24.19
6/26/2007 19:00	0	31.27	44.04	31.19	24.93	22.74	38.96	36.55	27.43	24.23
6/26/2007 20:00	0	30.35	43.04	31.7	25	22.74	38.28	36.45	27.7	24.23
6/26/2007 21:00	0	26.77	40.98	32.11	25.11	22.77	36.91	36.01	27.97	24.27
6/26/2007 22:00	0	24.9	38.89	32.45	25.18	22.76	35.46	35.2	28.22	24.3
6/26/2007 23:00	0	23.71	37.07	32.61	25.28	22.77	34.18	34.3	28.42	24.33
6/27/2007 0:00	0	22.95	35.62	32.68	25.4	22.8	33.09	33.44	28.56	24.38
6/27/2007 1:00	0	23.33	34.35	32.6	25.51	22.81	32.21	32.65	28.63	24.42
6/27/2007 2:00	0	23.02	33.32	32.43	25.62	22.82	31.49	32	28.65	24.46
6/27/2007 3:00	0	21.41	32.26	32.28	25.75	22.84	30.65	31.34	28.67	24.54
6/27/2007 4:00	0	20.81	31.35	32.03	25.83	22.84	29.94	30.68	28.64	24.58
6/27/2007 5:00	0	20.61	30.44	31.77	25.9	22.88	29.26	30.1	28.59	24.62
6/27/2007 6:00	0	19.88	29.47	31.48	25.98	22.92	28.45	29.55	28.53	24.7
6/27/2007 7:00	0	19.7	28.7	31.21	26.02	22.93	27.85	28.93	28.45	24.75
6/27/2007 8:00	0	21.08	28.39	30.87	26.06	22.96	27.79	28.5	28.31	24.78
6/27/2007 9:00	0	22.79	28.75	30.51	26.11	22.98	28.52	28.44	28.21	24.83
6/27/2007 10:00	0	24.22	30.88	30.24	26.12	23.02	29.91	28.92	28.07	24.88
6/27/2007 11:00	0	25.15	33.46	30.01	26.13	23.03	31.6	29.76	27.96	24.93
6/27/2007 12:00	0	25.84	36.11	29.91	26.12	23.07	33.44	30.86	27.87	24.94
6/27/2007 13:00	0	26.53	38.67	29.93	26.11	23.08	35.31	32.12	27.86	25
6/27/2007 14:00	0	27	40.82	30.1	26.08	23.12	36.92	33.38	27.86	25
6/27/2007 15:00	0	27.43	42.66	30.42	26.08	23.14	38.31	34.63	27.93	25.07
6/27/2007 16:00	0	27.45	43.3	30.81	26.05	23.16	38.7	35.57	28.06	25.05
6/27/2007 17:00	0	26.69	43.15	31.26	26.05	23.18	38.58	36.04	28.28	25.05
6/27/2007 18:00	0	25.94	41.52	31.76	26.07	23.21	37.41	35.98	28.47	25.07
6/27/2007 19:00	0	25.52	40.05	32.17	26.1	23.23	36.4	35.53	28.69	25.11
6/27/2007 20:00	0	24.34	38.47	32.46	26.14	23.23	35.25	34.88	28.89	25.13
6/27/2007 21:00	0	22.79	36.69	32.64	26.19	23.25	33.96	34.16	29.03	25.15
6/27/2007 22:00	0	20.84	34.88	32.7	26.25	23.27	32.54	33.24	29.13	25.17
6/27/2007 23:00	0	20.16	33.25	32.63	26.33	23.3	31.4	32.34	29.22	25.19
6/28/2007 0:00	0	19.19	31.96	32.48	26.42	23.32	30.41	31.47	29.24	25.27

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
6/28/2007 1:00	0	18.62	30.79	32.31	26.43	23.33	29.48	30.71	29.23	25.28
6/28/2007 2:00	0	17.83	29.65	31.98	26.51	23.33	28.55	29.89	29.17	25.33
6/28/2007 3:00	0	17.15	28.65	31.71	26.6	23.36	27.74	29.2	29.05	25.37
6/28/2007 4:00	0	16.17	27.69	31.36	26.61	23.4	26.98	28.5	28.97	25.42
6/28/2007 5:00	0	15.54	26.62	30.99	26.64	23.43	26.08	27.81	28.81	25.45
6/28/2007 6:00	0	14.81	25.63	30.58	26.65	23.43	25.22	27.11	28.65	25.45
6/28/2007 7:00	0	14.66	24.89	30.22	26.66	23.44	24.57	26.43	28.47	25.53
6/28/2007 8:00	0	15.93	24.67	29.82	26.65	23.5	24.54	25.96	28.27	25.52
6/28/2007 9:00	0	17.68	25.37	29.44	26.65	23.5	25.37	25.95	28.11	25.59
6/28/2007 10:00	0	19.61	27.76	29.07	26.63	23.52	26.93	26.41	27.91	25.6
6/28/2007 11:00	0	20.1	30.67	28.81	26.56	23.56	28.92	27.39	27.73	25.58
6/28/2007 12:00	0	20.93	33.56	28.66	26.51	23.57	30.96	28.66	27.58	25.6
6/28/2007 13:00	0	21.67	35.21	28.66	26.47	23.57	32.09	29.88	27.51	25.6
6/28/2007 14:00	0	22.58	36.14	28.81	26.4	23.6	32.79	30.66	27.51	25.6
6/28/2007 15:00	0	23.51	38.2	29.08	26.39	23.63	34.32	31.58	27.54	25.59
6/28/2007 16:00	0	23.32	39.05	29.33	26.29	23.62	34.89	32.52	27.63	25.57
6/28/2007 17:00	0	23.65	38.84	29.74	26.28	23.62	34.77	32.89	27.71	25.57
6/28/2007 18:00	0	23.82	38.68	30.1	26.26	23.64	34.65	33.11	27.86	25.57
6/28/2007 19:00	0	23.24	37.83	30.44	26.23	23.66	34.06	33.03	28.02	25.57
6/28/2007 20:00	0	22.35	36.42	30.74	26.25	23.67	33.05	32.7	28.15	25.54
6/28/2007 21:00	0	21.2	34.77	30.95	26.23	23.66	31.9	32.12	28.29	25.54
6/28/2007 22:00	0	19.67	33.14	31.08	26.25	23.68	30.75	31.4	28.39	25.53
6/28/2007 23:00	0	18.83	31.85	31.09	26.29	23.68	29.86	30.68	28.44	25.54
6/29/2007 0:00	0	18.43	30.64	31.01	26.33	23.66	28.99	29.95	28.44	25.54
6/29/2007 1:00	0	17.54	29.41	30.87	26.36	23.67	28.07	29.27	28.47	25.56
6/29/2007 2:00	0	16.66	28.42	30.63	26.36	23.68	27.25	28.57	28.39	25.56
6/29/2007 3:00	0	16.42	27.7	30.38	26.43	23.68	26.74	28.01	28.31	25.56
6/29/2007 4:00	0	16.03	27.03	30.11	26.44	23.68	26.22	27.52	28.24	25.59
6/29/2007 5:00	0	15.38	26.17	29.84	26.46	23.7	25.52	26.98	28.11	25.65
6/29/2007 6:00	0	15.53	25.38	29.52	26.46	23.73	24.86	26.46	27.97	25.66
6/29/2007 7:00	0	15.3	24.77	29.2	26.46	23.73	24.32	25.91	27.84	25.66
6/29/2007 8:00	0	16.49	24.92	28.89	26.46	23.77	24.53	25.59	27.68	25.66
6/29/2007 9:00	0	18.2	25.7	28.59	26.43	23.74	25.07	25.64	27.55	25.64
6/29/2007 10:00	0	19.33	26.64	28.3	26.42	23.79	25.74	25.89	27.38	25.65
6/29/2007 11:00	0	20.55	28.13	28.13	26.37	23.79	26.7	26.3	27.22	25.67
6/29/2007 12:00	0	21.57	29.75	27.95	26.31	23.8	27.76	26.93	27.12	25.66
6/29/2007 13:00	0	22.42	32.23	27.89	26.28	23.78	29.51	27.69	27.02	25.64
6/29/2007 14:00	0	22.75	34.27	27.92	26.24	23.79	30.91	28.97	26.98	25.64
6/29/2007 15:00	0	23.36	34.26	28.08	26.18	23.81	30.91	29.52	26.98	25.6
6/29/2007 16:00	0	23.87	35.89	28.28	26.12	23.82	32.13	30.21	27.01	25.57
6/29/2007 17:00	0	24.03	36.18	28.55	26.07	23.82	32.32	30.72	27.07	25.57
6/29/2007 18:00	0	23.7	35.95	28.87	26.05	23.83	32.16	30.97	27.19	25.58
6/29/2007 19:00	0	23.65	35.82	29.14	26	23.82	32.08	31.06	27.26	25.53
6/29/2007 20:00	0	22.62	34.75	29.4	26.03	23.81	31.38	30.95	27.39	25.52
6/29/2007 21:00	0	21.2	33.19	29.6	25.99	23.78	30.33	30.5	27.47	25.49
6/29/2007 22:00	0	19.43	31.57	29.75	26.02	23.8	29.2	29.87	27.57	25.48
6/29/2007 23:00	0	18.24	30.1	29.78	26.04	23.79	28.13	29.14	27.6	25.46
6/30/2007 0:00	0	17.53	28.77	29.73	26.06	23.81	27.19	28.41	27.62	25.49
6/30/2007 1:00	0	16.84	27.61	29.57	26.07	23.81	26.35	27.7	27.62	25.49

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
6/30/2007 2:00	0	15.96	26.59	29.44	26.09	23.8	25.59	27.05	27.58	25.5
6/30/2007 3:00	0	15.19	25.65	29.2	26.1	23.8	24.82	26.39	27.5	25.47
6/30/2007 4:00	0	14.71	24.74	28.89	26.1	23.77	24.11	25.81	27.39	25.46
6/30/2007 5:00	0	14.41	23.92	28.59	26.11	23.78	23.47	25.25	27.29	25.47
6/30/2007 6:00	0	13.9	23.14	28.29	26.12	23.79	22.84	24.68	27.15	25.47
6/30/2007 7:00	0	14.51	22.61	27.99	26.12	23.79	22.38	24.14	26.97	25.47
6/30/2007 8:00	0	16.39	22.5	27.65	26.08	23.79	22.6	23.85	26.81	25.47
6/30/2007 9:00	0	19.13	23.02	27.35	26.05	23.81	23.63	23.98	26.63	25.47
6/30/2007 10:00	0	21.01	25.58	27.08	26.02	23.8	25.26	24.63	26.49	25.47
6/30/2007 11:00	0	22.22	28.44	26.82	25.98	23.8	27.05	25.6	26.34	25.47
6/30/2007 12:00	0	22.91	31.57	26.72	25.92	23.81	29.18	26.84	26.25	25.45
6/30/2007 13:00	0	23.62	34.79	26.75	25.87	23.8	31.48	28.34	26.16	25.44
6/30/2007 14:00	0	24.13	37.58	26.93	25.79	23.81	33.49	29.93	26.18	25.39
6/30/2007 15:00	0	24.65	39.87	27.29	25.76	23.82	35.22	31.44	26.29	25.36
6/30/2007 16:00	0	24.75	41.06	27.77	25.71	23.81	36.13	32.64	26.43	25.35
6/30/2007 17:00	0	24.86	41.75	28.36	25.69	23.8	36.68	33.52	26.63	25.33
6/30/2007 18:00	0	25.03	41.62	28.97	25.67	23.78	36.61	34.04	26.84	25.32
6/30/2007 19:00	0	24.56	40.59	29.55	25.66	23.77	35.93	34.12	27.06	25.23
6/30/2007 20:00	0	24.02	38.9	30.1	25.67	23.8	34.8	33.88	27.37	25.26
6/30/2007 21:00	0	22.03	36.63	30.46	25.67	23.75	33.21	33.16	27.55	25.21
6/30/2007 22:00	0	20.27	34.5	30.76	25.72	23.76	31.73	32.24	27.79	25.22
6/30/2007 23:00	0	19.02	32.71	30.9	25.77	23.75	30.42	31.31	27.92	25.24
7/1/2007 0:00	0	17.4	31.09	30.84	25.83	23.72	29.22	30.35	27.98	25.23
7/1/2007 0:00	0	17.4	31.09	30.84	25.83	23.72	29.22	30.35	27.98	25.23
7/1/2007 1:00	0	17.57	29.73	30.79	25.92	23.74	28.23	29.49	28.06	25.25
7/1/2007 2:00	0	17.51	28.48	30.55	25.96	23.75	27.26	28.71	28.02	25.29
7/1/2007 3:00	0	16.59	27.36	30.33	26.02	23.75	26.39	27.96	27.99	25.3
7/1/2007 4:00	0	15.59	26.35	30.04	26.1	23.73	25.59	27.2	27.88	25.31
7/1/2007 5:00	0	14.75	25.39	29.69	26.1	23.71	24.82	26.54	27.81	25.31
7/1/2007 6:00	0	13.87	24.49	29.39	26.16	23.73	24.07	25.9	27.68	25.35
7/1/2007 7:00	0	14.22	23.86	29	26.2	23.73	23.54	25.26	27.53	25.39
7/1/2007 8:00	0	16.53	23.72	28.67	26.19	23.76	23.72	24.93	27.36	25.39
7/1/2007 9:00	0	19.69	24.1	28.31	26.17	23.77	24.64	25.02	27.2	25.43
7/1/2007 10:00	0	21.5	26.41	27.98	26.19	23.79	26.13	25.54	27	25.42
7/1/2007 11:00	0	22.65	29.34	27.75	26.16	23.76	28.07	26.52	26.85	25.43
7/1/2007 12:00	0	23.7	32.29	27.61	26.1	23.78	30.17	27.77	26.76	25.43
7/1/2007 13:00	0	24.62	35.18	27.61	26.09	23.77	32.28	29.2	26.68	25.45
7/1/2007 14:00	0	25.18	37.84	27.78	26	23.77	34.2	30.7	26.67	25.43
7/1/2007 15:00	0	25.66	40.04	28.09	26	23.8	35.81	32.12	26.76	25.42
7/1/2007 16:00	0	26.23	41.39	28.53	25.95	23.81	36.9	33.32	26.87	25.41
7/1/2007 17:00	0	26.16	41.94	29.08	25.9	23.8	37.44	34.21	27.08	25.4
7/1/2007 18:00	0	26.22	41.56	29.69	25.89	23.79	37.32	34.69	27.29	25.39
7/1/2007 19:00	0	25.82	40.41	30.18	25.89	23.79	36.62	34.79	27.57	25.35
7/1/2007 20:00	0	25.14	38.69	30.68	25.9	23.8	35.37	34.43	27.8	25.33
7/1/2007 21:00	0	23.24	36.51	31.05	25.93	23.79	33.85	33.74	28.01	25.35
7/1/2007 22:00	0	21.32	34.48	31.26	25.98	23.79	32.36	32.85	28.21	25.32
7/1/2007 23:00	0	20.16	32.71	31.33	26.03	23.78	31	31.88	28.35	25.35
7/2/2007 0:00	0	19.13	31.15	31.32	26.11	23.79	29.78	30.92	28.44	25.36
7/2/2007 0:00	0	19.13	31.15	31.32	26.11	23.79	29.78	30.92	28.44	25.36

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/2/2007 1:00	0	17.92	29.81	31.2	26.18	23.81	28.76	30.05	28.46	25.38
7/2/2007 2:00	0	16.82	28.62	30.96	26.21	23.81	27.78	29.19	28.47	25.42
7/2/2007 3:00	0	16.92	27.61	30.67	26.29	23.82	26.96	28.47	28.4	25.43
7/2/2007 4:00	0	16.82	26.68	30.39	26.35	23.84	26.22	27.76	28.34	25.45
7/2/2007 5:00	0	16.13	25.84	30.04	26.39	23.83	25.52	27.13	28.19	25.49
7/2/2007 6:00	0	15.68	25.05	29.68	26.39	23.84	24.82	26.53	28.04	25.52
7/2/2007 7:00	0	15.77	24.42	29.36	26.39	23.84	24.32	25.95	27.88	25.52
7/2/2007 8:00	0	17.6	24.18	28.97	26.41	23.84	24.32	25.59	27.73	25.59
7/2/2007 9:00	0	20.06	24.58	28.64	26.44	23.82	25.01	25.57	27.56	25.57
7/2/2007 10:00	0	21.83	26.61	28.36	26.41	23.86	25.77	25.97	27.39	25.6
7/2/2007 11:00	0	23.31	29.24	28.1	26.37	23.87	26.27	26.53	27.23	25.6
7/2/2007 12:00	0	24.73	32.38	27.93	26.32	23.88	27.36	27.32	27.13	25.6
7/2/2007 13:00	0	25.48	35.55	27.92	26.3	23.9	29.69	28.56	27.04	25.58
7/2/2007 14:00	0	26.45	38.25	28.08	26.24	23.89	32.23	30.04	27.03	25.57
7/2/2007 15:00	0	27.24	40.37	28.39	26.22	23.89	34.28	31.46	27.03	25.57
7/2/2007 16:00	0	27.72	41.71	28.84	26.14	23.89	35.66	32.72	27.16	25.55
7/2/2007 17:00	0	27.96	42.54	29.38	26.12	23.93	36.53	33.77	27.3	25.56
7/2/2007 18:00	0	28	42.48	29.91	26.09	23.91	36.69	34.39	27.46	25.54
7/2/2007 19:00	0	27.79	41.65	30.48	26.09	23.91	36.2	34.58	27.68	25.52
7/2/2007 20:00	0	26.63	39.99	31.01	26.12	23.93	35.09	34.34	27.9	25.54
7/2/2007 21:00	0	25.01	38.1	31.38	26.15	23.89	33.92	33.82	28.11	25.5
7/2/2007 22:00	0	23.85	36.37	31.66	26.17	23.91	32.83	33.1	28.31	25.52
7/2/2007 23:00	0	23.5	34.91	31.82	26.25	23.93	31.9	32.38	28.45	25.55
7/3/2007 0:00	0	22.97	33.6	31.82	26.31	23.9	31.06	31.73	28.56	25.55
7/3/2007 0:00	0	22.97	33.6	31.82	26.31	23.9	31.06	31.73	28.56	25.55
7/3/2007 1:00	0	22.54	32.27	31.76	26.4	23.91	30.09	31.04	28.62	25.56
7/3/2007 2:00	0	22.58	31.51	31.68	26.48	23.92	29.58	30.43	28.63	25.58
7/3/2007 3:00	0	22.37	30.84	31.43	26.52	23.92	29.14	29.94	28.63	25.61
7/3/2007 4:00	0	21.84	30.25	31.26	26.55	23.92	28.67	29.54	28.59	25.61
7/3/2007 5:00	0	21.55	29.68	31.01	26.63	23.92	28.28	29.14	28.52	25.64
7/3/2007 6:00	0	21.42	29.14	30.76	26.66	23.93	27.9	28.75	28.44	25.68
7/3/2007 7:00	0	20.79	28.62	30.51	26.7	23.95	27.44	28.4	28.36	25.68
7/3/2007 8:00	0	21.87	28.67	30.27	26.7	23.96	27.52	28.13	28.26	25.72
7/3/2007 9:00	0	23.08	29.38	30.09	26.74	23.99	28	28.13	28.17	25.75
7/3/2007 10:00	0	24.37	30.81	29.87	26.75	24	28.99	28.45	28.06	25.76
7/3/2007 11:00	0	25.97	33	29.72	26.75	24.01	30.57	29.07	27.97	25.78
7/3/2007 12:00	0	27.58	36.11	29.65	26.73	24.03	32.84	30.22	27.94	25.79
7/3/2007 13:00	0	28.8	38.78	29.7	26.71	24	34.77	31.6	27.91	25.76
7/3/2007 14:00	0	29.21	39.99	29.94	26.71	24.07	35.7	32.81	27.9	25.82
7/3/2007 15:00	0	30.46	41.12	30.27	26.7	24.07	36.63	33.61	27.98	25.83
7/3/2007 16:00	0	30.75	43.22	30.65	26.68	24.05	38.22	34.67	28.11	25.81
7/3/2007 17:00	0	31.33	43.84	31.06	26.68	24.07	38.81	35.61	28.33	25.8
7/3/2007 18:00	0	31.22	44.09	31.53	26.65	24.09	39.03	36.16	28.49	25.79
7/3/2007 19:00	0	30.4	43.48	32.04	26.66	24.09	38.7	36.45	28.69	25.78
7/3/2007 20:00	0	28.74	41.77	32.52	26.69	24.06	37.52	36.3	28.97	25.82
7/3/2007 21:00	0	27.06	39.92	32.87	26.76	24.09	36.24	35.69	29.17	25.85
7/3/2007 22:00	0	25.74	38.14	33.14	26.83	24.12	35.02	34.97	29.36	25.85
7/3/2007 23:00	0	25.98	36.56	33.23	26.9	24.12	33.99	34.2	29.52	25.85
7/4/2007 0:00	0	24.4	35.24	33.26	26.97	24.14	33.04	33.5	29.63	25.9

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/4/2007 0:00	0	24.4	35.24	33.26	26.97	24.14	33.04	33.5	29.63	25.9
7/4/2007 1:00	0	22.65	34.03	33.17	27.04	24.14	32.21	32.78	29.67	25.91
7/4/2007 2:00	0	21.65	32.97	33.03	27.13	24.15	31.4	32.14	29.68	25.94
7/4/2007 3:00	0	20.85	32.02	32.81	27.22	24.17	30.68	31.51	29.7	25.97
7/4/2007 4:00	0	20.79	31.17	32.54	27.26	24.18	30.02	30.92	29.62	26.03
7/4/2007 5:00	0	20.04	30.35	32.29	27.3	24.2	29.31	30.35	29.54	26.05
7/4/2007 6:00	0	19.54	29.48	32.06	27.35	24.22	28.54	29.8	29.49	26.1
7/4/2007 7:00	0	20.12	28.78	31.71	27.4	24.22	27.98	29.18	29.4	26.14
7/4/2007 8:00	0	22.06	28.55	31.44	27.4	24.23	28.08	28.86	29.25	26.16
7/4/2007 9:00	0	23.35	28.83	31.1	27.39	24.27	28.89	28.87	29.14	26.19
7/4/2007 10:00	0	25.3	31.03	30.81	27.42	24.28	30.31	29.35	29	26.23
7/4/2007 11:00	0	26.72	33.84	30.61	27.39	24.33	32.18	30.26	28.89	26.25
7/4/2007 12:00	0	27.91	36.73	30.47	27.35	24.31	34.27	31.46	28.79	26.26
7/4/2007 13:00	0	28.74	39.52	30.54	27.33	24.34	36.37	32.91	28.78	26.29
7/4/2007 14:00	0	29.44	42	30.69	27.31	24.35	38.27	34.35	28.77	26.27
7/4/2007 15:00	0	29.99	44.1	31.01	27.3	24.35	39.77	35.75	28.91	26.27
7/4/2007 16:00	0	30.4	45.58	31.5	27.29	24.41	40.87	36.92	29.05	26.33
7/4/2007 17:00	0	30.79	45.68	31.99	27.27	24.39	40.96	37.64	29.27	26.31
7/4/2007 18:00	0	30.59	45.67	32.59	27.27	24.39	41.06	38.11	29.51	26.31
7/4/2007 19:00	0	30.59	44.95	33.09	27.24	24.43	40.45	38.24	29.72	26.32
7/4/2007 20:00	0	30.03	43.54	33.54	27.31	24.44	39.46	37.97	29.96	26.32
7/4/2007 21:00	0	27.77	41.42	33.9	27.36	24.4	37.93	37.41	30.21	26.32
7/4/2007 22:00	0	23.94	39.29	34.16	27.42	24.45	36.39	36.49	30.4	26.38
7/4/2007 23:00	0	23.52	37.59	34.29	27.48	24.47	35.22	35.6	30.59	26.4
7/5/2007 0:00	0	23.72	36.1	34.3	27.57	24.46	34.12	34.72	30.69	26.42
7/5/2007 0:00	0	23.72	36.1	34.3	27.57	24.46	34.12	34.72	30.69	26.42
7/5/2007 1:00	0	22.93	34.72	34.18	27.66	24.46	33.05	33.89	30.74	26.46
7/5/2007 2:00	0	21.29	33.51	33.97	27.75	24.48	32.11	33.09	30.75	26.48
7/5/2007 3:00	0	21.27	32.37	33.77	27.82	24.48	31.18	32.33	30.68	26.55
7/5/2007 4:00	0	21.21	31.3	33.46	27.85	24.53	30.37	31.62	30.62	26.57
7/5/2007 5:00	0	20.67	30.34	33.2	27.93	24.57	29.56	30.88	30.54	26.65
7/5/2007 6:00	0	19.91	29.41	32.84	27.94	24.57	28.76	30.21	30.41	26.65
7/5/2007 7:00	0	20.22	28.78	32.49	28	24.57	28.16	29.58	30.3	26.72
7/5/2007 8:00	0	22.24	28.47	32.1	28	24.59	28.23	29.24	30.13	26.73
7/5/2007 9:00	0	24.45	28.69	31.79	28	24.63	29.11	29.24	29.96	26.79
7/5/2007 10:00	0	26.23	30.99	31.42	28.03	24.67	30.65	29.76	29.84	26.83
7/5/2007 11:00	0	27.76	33.99	31.16	28	24.67	32.61	30.71	29.68	26.83
7/5/2007 12:00	0	28.79	37.1	31.04	27.96	24.72	34.75	31.97	29.57	26.88
7/5/2007 13:00	0	29.26	40.08	31.02	27.91	24.7	36.86	33.42	29.53	26.86
7/5/2007 14:00	0	29.72	42.7	31.23	27.91	24.7	38.79	34.9	29.54	26.85
7/5/2007 15:00	0	30.24	44.8	31.6	27.83	24.77	40.32	36.33	29.62	26.87
7/5/2007 16:00	0	30.61	46.1	32	27.81	24.75	41.32	37.51	29.76	26.91
7/5/2007 17:00	0	30.64	46.5	32.59	27.8	24.81	41.65	38.22	29.93	26.9
7/5/2007 18:00	0	30.58	46.35	33.12	27.79	24.8	41.52	38.74	30.17	26.89
7/5/2007 19:00	0	30.23	45.24	33.64	27.78	24.79	40.87	38.77	30.42	26.88
7/5/2007 20:00	0	29.49	43.7	34.11	27.83	24.8	39.71	38.45	30.65	26.9
7/5/2007 21:00	0	27.63	41.45	34.42	27.84	24.83	38.1	37.73	30.88	26.92
7/5/2007 22:00	0	25.14	39.21	34.69	27.92	24.81	36.48	36.81	31.07	26.91
7/5/2007 23:00	0	22.97	37.3	34.77	27.98	24.84	35.05	35.78	31.22	26.96

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/6/2007 0:00	0	23.9	35.94	34.75	28.08	24.86	34.14	34.88	31.33	26.99
7/6/2007 0:00	0	23.9	35.94	34.75	28.08	24.86	34.14	34.88	31.33	26.99
7/6/2007 1:00	0	23.19	34.74	34.62	28.17	24.87	33.25	34.1	31.34	27.03
7/6/2007 2:00	0	21.38	33.43	34.37	28.21	24.89	32.2	33.3	31.34	27.07
7/6/2007 3:00	0	21.65	32.22	34.12	28.3	24.92	31.2	32.5	31.28	27.09
7/6/2007 4:00	0	21.44	31.29	33.83	28.39	24.92	30.46	31.8	31.21	27.14
7/6/2007 5:00	0	20.14	30.31	33.46	28.39	24.92	29.65	31.11	31.08	27.17
7/6/2007 6:00	0	20.08	29.41	33.11	28.44	24.92	28.86	30.43	30.96	27.18
7/6/2007 7:00	0	20.38	28.79	32.76	28.48	24.93	28.32	29.82	30.8	27.26
7/6/2007 8:00	0	22.52	28.73	32.4	28.47	24.99	28.47	29.41	30.62	27.28
7/6/2007 9:00	0	24.09	29.21	32.04	28.45	24.98	29.18	29.44	30.45	27.31
7/6/2007 10:00	0	25.98	31.48	31.74	28.45	25.02	30.7	29.93	30.32	27.35
7/6/2007 11:00	0	27.55	34.46	31.48	28.41	25.05	32.65	30.86	30.16	27.35
7/6/2007 12:00	0	28.93	37.54	31.37	28.38	25.06	34.73	32.05	30.05	27.39
7/6/2007 13:00	0	29.31	40.1	31.35	28.37	25.09	36.48	33.43	29.94	27.38
7/6/2007 14:00	0	29.76	41.97	31.59	28.29	25.12	37.85	34.62	29.94	27.38
7/6/2007 15:00	0	30.43	44.01	31.93	28.28	25.11	39.31	35.83	30.01	27.38
7/6/2007 16:00	0	30.93	45.01	32.33	28.26	25.11	40.15	36.79	30.15	27.42
7/6/2007 17:00	0	31.04	46.45	32.82	28.23	25.14	41.26	37.72	30.29	27.4
7/6/2007 18:00	0	30.94	46.72	33.36	28.23	25.15	41.48	38.49	30.53	27.39
7/6/2007 19:00	0	31.07	45.75	33.81	28.22	25.14	40.79	38.7	30.7	27.39
7/6/2007 20:00	0	31.17	43.99	34.3	28.24	25.16	39.61	38.36	30.93	27.4
7/6/2007 21:00	0	28.87	41.95	34.68	28.28	25.19	38.26	37.74	31.17	27.37
7/6/2007 22:00	0	26.86	40	34.92	28.33	25.17	36.89	36.99	31.31	27.42
7/6/2007 23:00	0	25.62	38.23	35.02	28.37	25.17	35.64	36.09	31.49	27.42
7/7/2007 0:00	0	24.55	36.76	35	28.45	25.19	34.6	35.26	31.56	27.45
7/7/2007 0:00	0	24.55	36.76	35	28.45	25.19	34.6	35.26	31.56	27.45
7/7/2007 1:00	0	23.45	35.4	34.91	28.52	25.19	33.62	34.45	31.61	27.46
7/7/2007 2:00	0	22.07	34.24	34.71	28.59	25.25	32.72	33.7	31.62	27.51
7/7/2007 3:00	0	20.98	33.15	34.53	28.67	25.25	31.85	32.98	31.57	27.52
7/7/2007 4:00	0	20.77	32.19	34.19	28.71	25.25	31.09	32.28	31.51	27.56
7/7/2007 5:00	0	20.61	31.29	33.89	28.76	25.26	30.43	31.69	31.4	27.6
7/7/2007 6:00	0	20.16	30.53	33.54	28.78	25.26	29.76	31.11	31.28	27.61
7/7/2007 7:00	0	20.56	29.96	33.22	28.85	25.31	29.32	30.57	31.17	27.67
7/7/2007 8:00	0	22.99	29.87	32.91	28.84	25.33	29.39	30.21	31.02	27.68
7/7/2007 9:00	0	25.72	30.18	32.54	28.83	25.32	30.27	30.31	30.85	27.71
7/7/2007 10:00	0	27.82	32.36	32.24	28.83	25.36	31.76	30.83	30.71	27.74
7/7/2007 11:00	0	29.31	35.06	32.02	28.82	25.36	33.56	31.72	30.55	27.78
7/7/2007 12:00	0	30.61	37.76	31.96	28.79	25.42	35.39	32.85	30.46	27.77
7/7/2007 13:00	0	31.7	40.62	31.94	28.75	25.4	37.47	34.17	30.43	27.75
7/7/2007 14:00	0	32.78	43.13	32.19	28.75	25.44	39.42	35.65	30.43	27.78
7/7/2007 15:00	0	33.35	45.28	32.51	28.73	25.45	40.97	36.99	30.5	27.8
7/7/2007 16:00	0	33.49	46.78	32.95	28.68	25.45	42.12	38.22	30.64	27.8
7/7/2007 17:00	0	33.67	47.56	33.45	28.66	25.49	42.75	39.13	30.86	27.77
7/7/2007 18:00	0	33.32	47.28	34.03	28.65	25.49	42.67	39.68	31.07	27.77
7/7/2007 19:00	0	32.8	46.3	34.54	28.68	25.49	42.07	39.84	31.32	27.77
7/7/2007 20:00	0	31.63	44.71	35	28.69	25.49	40.93	39.56	31.57	27.77
7/7/2007 21:00	0	29.02	42.51	35.34	28.73	25.52	39.4	38.87	31.78	27.77
7/7/2007 22:00	0	26.58	40.38	35.6	28.78	25.5	37.8	37.99	31.97	27.78

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/7/2007 23:00	0	24.93	38.51	35.73	28.85	25.52	36.47	37.02	32.15	27.81
7/8/2007 0:00	0	23.95	36.94	35.67	28.91	25.55	35.29	36.11	32.25	27.83
7/8/2007 0:00	0	23.95	36.94	35.67	28.91	25.55	35.29	36.11	32.25	27.83
7/8/2007 1:00	0	23.55	35.48	35.53	28.99	25.55	34.17	35.19	32.29	27.87
7/8/2007 2:00	0	23.84	34.24	35.32	29.08	25.57	33.18	34.36	32.28	27.9
7/8/2007 3:00	0	23.79	33.14	35.04	29.14	25.57	32.28	33.57	32.24	27.95
7/8/2007 4:00	0	23.66	32.11	34.71	29.22	25.6	31.48	32.85	32.15	27.98
7/8/2007 5:00	0	23.27	31.18	34.38	29.26	25.61	30.68	32.15	32.02	28.01
7/8/2007 6:00	0	22.51	30.35	34	29.3	25.61	29.99	31.51	31.9	28.06
7/8/2007 7:00	0	22.04	29.71	33.62	29.31	25.62	29.43	30.92	31.78	28.08
7/8/2007 8:00	0	23.59	29.54	33.26	29.3	25.66	29.58	30.52	31.6	28.13
7/8/2007 9:00	0	25.51	29.82	32.9	29.3	25.68	30.45	30.59	31.43	28.17
7/8/2007 10:00	0	27.61	32.11	32.58	29.32	25.71	31.93	31.1	31.25	28.2
7/8/2007 11:00	0	29.52	35.13	32.32	29.29	25.72	33.87	32.06	31.13	28.2
7/8/2007 12:00	0	30.89	38.32	32.2	29.23	25.76	36.04	33.3	31.01	28.21
7/8/2007 13:00	0	32.31	41.35	32.28	29.23	25.76	38.16	34.78	30.97	28.21
7/8/2007 14:00	0	33.13	44	32.44	29.13	25.76	40.08	36.22	30.96	28.2
7/8/2007 15:00	0	34.04	45.95	32.81	29.12	25.8	41.66	37.63	31.05	28.23
7/8/2007 16:00	0	34.32	47.34	33.3	29.11	25.8	42.77	38.85	31.18	28.25
7/8/2007 17:00	0	34.18	47.82	33.9	29.09	25.82	43.29	39.72	31.36	28.23
7/8/2007 18:00	0	33.61	47.66	34.45	29.08	25.85	43.21	40.24	31.6	28.23
7/8/2007 19:00	0	32.67	46.71	35	29.08	25.85	42.55	40.37	31.85	28.23
7/8/2007 20:00	0	31.3	45.08	35.46	29.08	25.85	41.37	40.06	32.08	28.23
7/8/2007 21:00	0	28.27	42.87	35.75	29.13	25.83	39.85	39.41	32.28	28.21
7/8/2007 22:00	0	25.46	40.73	35.99	29.18	25.86	38.26	38.5	32.49	28.24
7/8/2007 23:00	0	24.98	38.93	36.07	29.22	25.88	36.92	37.52	32.66	28.27
7/9/2007 0:00	0	24.98	37.4	36.06	29.31	25.87	35.79	36.59	32.73	28.29
7/9/2007 0:00	0	24.98	37.4	36.06	29.31	25.87	35.79	36.59	32.73	28.29
7/9/2007 1:00	0	24.82	36.11	35.91	29.39	25.87	34.82	35.72	32.77	28.29
7/9/2007 2:00	0	24.63	35.18	35.73	29.45	25.88	34.14	35.01	32.79	28.35
7/9/2007 3:00	0	23.87	34.26	35.47	29.54	25.9	33.42	34.36	32.73	28.4
7/9/2007 4:00	0	23.06	33.52	35.18	29.58	25.93	32.81	33.79	32.66	28.44
7/9/2007 5:00	0	22.97	32.92	34.89	29.62	25.93	32.29	33.25	32.54	28.45
7/9/2007 6:00	0	21.98	32.2	34.52	29.62	25.97	31.68	32.8	32.46	28.48
7/9/2007 7:00	0	21.15	31.35	34.26	29.63	25.97	30.86	32.22	32.29	28.52
7/9/2007 8:00	0	21.62	30.54	33.91	29.65	25.99	30.13	31.62	32.22	28.56
7/9/2007 9:00	0.22	21.61	29.49	33.55	29.65	25.99	29.41	31.04	32.06	28.62
7/9/2007 10:00	0.01	21.1	28.62	33.2	29.65	26.05	28.64	30.38	31.89	28.62
7/9/2007 11:00	0	22.05	28.7	32.84	29.65	26.07	28.62	29.94	31.72	28.62
7/9/2007 12:00	0	23.26	29.96	32.46	29.62	26.06	29.54	29.94	31.51	28.66
7/9/2007 13:00	0	24.41	31.03	32.09	29.56	26.09	30.33	30.28	31.35	28.65
7/9/2007 14:00	0	25.78	32.52	31.9	29.55	26.09	31.31	30.68	31.18	28.68
7/9/2007 15:00	0	26.93	35.43	31.75	29.49	26.12	33.32	31.66	31.08	28.66
7/9/2007 16:00	0	27.84	38.18	31.72	29.43	26.15	35.26	32.84	30.96	28.7
7/9/2007 17:00	0	28.35	38.86	31.82	29.39	26.13	35.77	33.89	30.93	28.69
7/9/2007 18:00	0	28.78	38.41	32.06	29.33	26.15	35.5	34.28	30.92	28.64
7/9/2007 19:00	0	28.64	38.19	32.36	29.28	26.16	35.4	34.36	30.95	28.63
7/9/2007 20:00	0	27.12	37.2	32.6	29.23	26.15	34.65	34.27	31.04	28.62
7/9/2007 21:00	0	25.9	35.86	32.78	29.19	26.16	33.75	33.9	31.08	28.6

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/9/2007 22:00	0	24.43	34.39	32.89	29.17	26.19	32.72	33.33	31.14	28.6
7/9/2007 23:00	0	23.51	33.14	32.88	29.16	26.17	31.83	32.7	31.16	28.58
7/10/2007 0:00	0	22.56	32.04	32.81	29.14	26.19	31.01	32.04	31.17	28.57
7/10/2007 0:00	0	22.56	32.04	32.81	29.14	26.19	31.01	32.04	31.17	28.57
7/10/2007 1:00	0	21.7	31.1	32.71	29.15	26.19	30.27	31.44	31.18	28.54
7/10/2007 2:00	0	21.06	30.21	32.49	29.17	26.21	29.62	30.87	31.12	28.54
7/10/2007 3:00	0	20.62	29.41	32.25	29.17	26.21	29.01	30.34	31.04	28.54
7/10/2007 4:00	0	19.73	28.7	32.01	29.09	26.21	28.39	29.81	30.88	28.54
7/10/2007 5:00	0	19.99	28.02	31.72	29.1	26.22	27.86	29.34	30.8	28.55
7/10/2007 6:00	0	20.27	27.43	31.49	29.12	26.24	27.35	28.89	30.66	28.55
7/10/2007 7:00	0	19.53	26.98	31.16	29.08	26.24	26.98	28.44	30.52	28.51
7/10/2007 8:00	0	20.81	27.02	30.87	29.01	26.21	27.02	28.16	30.38	28.5
7/10/2007 9:00	0	23.35	27.66	30.56	29	26.2	27.77	28.22	30.2	28.5
7/10/2007 10:00	0	25.32	29.56	30.33	28.97	26.21	29.07	28.65	30.04	28.49
7/10/2007 11:00	0	26.69	32.38	30.13	28.89	26.21	31.04	29.53	29.93	28.47
7/10/2007 12:00	0	26.12	34.31	30.08	28.83	26.24	32.53	30.67	29.84	28.43
7/10/2007 13:00	0	26.96	36.73	30.13	28.78	26.25	34.4	31.79	29.76	28.42
7/10/2007 14:00	0	27.3	39.08	30.32	28.72	26.24	36.24	33.13	29.75	28.41
7/10/2007 15:00	0	26.9	40.54	30.61	28.64	26.24	37.45	34.39	29.83	28.38
7/10/2007 16:00	0	26.87	41.13	31.05	28.59	26.22	38.1	35.22	29.9	28.32
7/10/2007 17:00	0	26.78	41.45	31.53	28.55	26.22	38.42	35.94	30.06	28.32
7/10/2007 18:00	0	25.96	41.12	31.97	28.55	26.22	38.3	36.28	30.25	28.32
7/10/2007 19:00	0	25.06	39.92	32.4	28.53	26.2	37.52	36.28	30.46	28.25
7/10/2007 20:00	0	23.67	38.08	32.72	28.52	26.15	36.12	35.8	30.64	28.25
7/10/2007 21:00	0	21.97	35.99	32.97	28.51	26.15	34.52	34.99	30.75	28.2
7/10/2007 22:00	0	19.95	34.06	33.07	28.56	26.16	32.98	34.02	30.92	28.2
7/10/2007 23:00	0	18.22	32.31	33.1	28.62	26.14	31.61	33.01	31.02	28.21
7/11/2007 0:00	0	18.06	30.78	32.93	28.62	26.14	30.3	31.97	31.04	28.18
7/11/2007 0:00	0	18.06	30.78	32.93	28.62	26.14	30.3	31.97	31.04	28.18
7/11/2007 1:00	0	17.47	29.38	32.7	28.67	26.17	29.2	31.07	30.99	28.19
7/11/2007 2:00	0	16.61	28.1	32.4	28.73	26.12	28.11	30.14	30.91	28.19
7/11/2007 3:00	0	15.88	26.95	32.06	28.74	26.1	27.13	29.29	30.83	28.19
7/11/2007 4:00	0	15.19	25.9	31.69	28.75	26.12	26.26	28.48	30.68	28.21
7/11/2007 5:00	0	14.42	24.98	31.27	28.76	26.12	25.44	27.72	30.53	28.22
7/11/2007 6:00	0	13.8	24.1	30.86	28.76	26.12	24.68	27.01	30.28	28.22
7/11/2007 7:00	0	14.07	23.49	30.45	28.72	26.12	24.1	26.38	30.12	28.22
7/11/2007 8:00	0	16.09	23.21	30.04	28.69	26.12	24.21	25.98	29.87	28.22
7/11/2007 9:00	0	18.14	23.38	29.66	28.67	26.11	25.1	25.98	29.69	28.28
7/11/2007 10:00	0	20.28	25.77	29.31	28.63	26.14	26.6	26.51	29.45	28.24
7/11/2007 11:00	0	21.54	28.68	28.99	28.56	26.12	28.51	27.42	29.26	28.21
7/11/2007 12:00	0	22.6	31.63	28.8	28.48	26.12	30.53	28.62	29.07	28.18
7/11/2007 13:00	0	23.25	34.37	28.78	28.41	26.12	32.56	30.02	28.99	28.18
7/11/2007 14:00	0	23.8	36.52	28.9	28.31	26.11	34.23	31.41	28.97	28.12
7/11/2007 15:00	0	24.44	37.88	29.19	28.23	26.1	35.38	32.56	28.97	28.11
7/11/2007 16:00	0	24.39	38.19	29.57	28.19	26.1	35.68	33.41	29.05	28.09
7/11/2007 17:00	0	24.37	38.33	30	28.11	26.1	35.83	33.87	29.2	28.08
7/11/2007 18:00	0	24.31	38.72	30.42	28.09	26.08	36.09	34.2	29.34	28.01
7/11/2007 19:00	0	24.28	38.2	30.79	28.05	26.08	35.7	34.44	29.52	28.01
7/11/2007 20:00	0	23.78	36.8	31.18	28.03	26.09	34.68	34.16	29.67	27.95

Date/Time	Precip. (in)	T _{air} (°C)	T _{pppc} , 8cm (°C)	T _{pppc} , 40cm (°C)	T _{pppc} , 60cm (°C)	T _{pppc} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/11/2007 21:00	0	21.53	34.84	31.42	28	26.03	33.16	33.5	29.85	27.92
7/11/2007 22:00	0	17.68	32.89	31.59	28.05	26.04	31.64	32.63	29.98	27.9
7/11/2007 23:00	0	16.42	31.13	31.63	28.08	26.05	30.29	31.7	30.05	27.89
7/12/2007 0:00	0	14.98	29.66	31.57	28.1	26.02	29.12	30.73	30.08	27.87
7/12/2007 0:00	0	14.98	29.66	31.57	28.1	26.02	29.12	30.73	30.08	27.87
7/12/2007 1:00	0	14.49	28.31	31.41	28.11	26.02	28.04	29.84	30.09	27.88
7/12/2007 2:00	0	13.81	27.13	31.16	28.11	25.99	27.1	28.98	30	27.88
7/12/2007 3:00	0	12.79	26.12	30.84	28.15	25.96	26.24	28.23	29.93	27.89
7/12/2007 4:00	0	12.38	25.18	30.54	28.17	25.97	25.47	27.52	29.79	27.9
7/12/2007 5:00	0	12.54	24.31	30.2	28.18	25.98	24.69	26.86	29.63	27.9
7/12/2007 6:00	0	12.25	23.55	29.83	28.18	25.98	24.07	26.21	29.47	27.87
7/12/2007 7:00	0	13.38	23.05	29.47	28.14	25.98	23.62	25.67	29.25	27.87
7/12/2007 8:00	0	17.27	23.04	29.1	28.13	25.97	23.92	25.39	29.06	27.9
7/12/2007 9:00	0	20.29	23.56	28.77	28.11	25.95	24.97	25.52	28.89	27.88
7/12/2007 10:00	0	22.14	25.46	28.45	28.06	25.96	26.19	26.08	28.68	27.83
7/12/2007 11:00	0	23.89	28.61	28.18	27.99	25.95	28.21	26.97	28.51	27.84
7/12/2007 12:00	0	25.16	31.45	28.04	27.92	25.92	30.16	28.26	28.38	27.81
7/12/2007 13:00	0	25.47	34.1	28.05	27.85	25.96	32.01	29.52	28.31	27.81
7/12/2007 14:00	0	26.16	36.22	28.19	27.81	25.95	33.66	30.82	28.31	27.77
7/12/2007 15:00	0	25.55	37.93	28.5	27.73	25.92	34.92	32	28.35	27.73
7/12/2007 16:00	0	25.66	38.33	28.87	27.64	25.91	35.18	32.88	28.41	27.71
7/12/2007 17:00	0	26.36	39.15	29.3	27.63	25.9	35.79	33.42	28.57	27.63
7/12/2007 18:00	0	26.14	39.45	29.75	27.56	25.9	36.06	33.98	28.76	27.61
7/12/2007 19:00	0	25.49	38.65	30.2	27.54	25.85	35.58	34.17	28.92	27.62
7/12/2007 20:00	0	24.62	37.2	30.62	27.55	25.86	34.56	33.91	29.1	27.55
7/12/2007 21:00	0	22.48	35.19	30.94	27.53	25.83	33.05	33.31	29.28	27.5
7/12/2007 22:00	0	20.41	33.15	31.16	27.54	25.81	31.55	32.41	29.4	27.51
7/12/2007 23:00	0	18.01	31.37	31.2	27.6	25.81	30.21	31.45	29.55	27.51
7/13/2007 0:00	0	17.22	29.83	31.23	27.64	25.8	28.96	30.5	29.59	27.49
7/13/2007 0:00	0	17.22	29.83	31.23	27.64	25.8	28.96	30.5	29.59	27.49
7/13/2007 1:00	0	16.5	28.36	31.08	27.65	25.81	27.82	29.6	29.6	27.5
7/13/2007 2:00	0	16.32	27.08	30.85	27.7	25.79	26.78	28.71	29.55	27.5
7/13/2007 3:00	0	15.84	25.86	30.57	27.72	25.76	25.8	27.87	29.47	27.49
7/13/2007 4:00	0	14.38	24.79	30.25	27.78	25.78	24.92	27.09	29.34	27.5
7/13/2007 5:00	0	12.77	23.85	29.9	27.79	25.75	24.12	26.36	29.18	27.51
7/13/2007 6:00	0	13.63	22.9	29.5	27.79	25.75	23.31	25.64	29.02	27.5
7/13/2007 7:00	0	13.85	22.23	29.14	27.75	25.75	22.7	24.97	28.82	27.5
7/13/2007 8:00	0	15.18	21.97	28.75	27.75	25.75	22.69	24.54	28.63	27.51
7/13/2007 9:00	0	17.47	22.28	28.38	27.72	25.74	23.46	24.49	28.39	27.51
7/13/2007 10:00	0	20.35	24.72	28.08	27.71	25.72	25.07	25	28.18	27.48
7/13/2007 11:00	0	22.17	27.97	27.78	27.63	25.75	27.2	25.97	28.01	27.48
7/13/2007 12:00	0	23	31.24	27.61	27.57	25.73	29.45	27.32	27.87	27.45
7/13/2007 13:00	0	23.57	34.46	27.58	27.51	25.7	31.7	28.83	27.77	27.43
7/13/2007 14:00	0	24.34	37.37	27.73	27.44	25.7	33.79	30.43	27.73	27.43
7/13/2007 15:00	0	24.92	39.68	28.07	27.39	25.7	35.5	31.92	27.81	27.38
7/13/2007 16:00	0	25.72	41.27	28.53	27.33	25.72	36.72	33.2	27.92	27.33
7/13/2007 17:00	0	26.01	42.07	29.08	27.28	25.7	37.34	34.16	28.07	27.31
7/13/2007 18:00	0	25.93	41.94	29.7	27.23	25.69	37.27	34.8	28.29	27.3
7/13/2007 19:00	0	25.71	41	30.35	27.23	25.69	36.63	34.9	28.52	27.24

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/13/2007 20:00	0	24.65	39.22	30.84	27.23	25.63	35.44	34.62	28.75	27.23
7/13/2007 21:00	0	21.64	36.95	31.28	27.23	25.63	33.84	33.93	28.98	27.19
7/13/2007 22:00	0	18.81	34.82	31.56	27.27	25.62	32.33	32.99	29.17	27.16
7/13/2007 23:00	0	17.72	32.98	31.68	27.29	25.61	31.05	32.03	29.3	27.14
7/14/2007 0:00	0	17.7	31.46	31.71	27.4	25.63	29.91	31.15	29.41	27.17
7/14/2007 0:00	0	17.7	31.46	31.71	27.4	25.63	29.91	31.15	29.41	27.17
7/14/2007 1:00	0	17.46	30.12	31.55	27.47	25.56	28.93	30.3	29.41	27.17
7/14/2007 2:00	0	17.66	28.95	31.39	27.5	25.58	28.02	29.51	29.43	27.19
7/14/2007 3:00	0	18.54	27.96	31.16	27.58	25.59	27.28	28.81	29.36	27.2
7/14/2007 4:00	0	18.84	27.28	30.86	27.65	25.59	26.68	28.19	29.28	27.2
7/14/2007 5:00	0	18.7	26.61	30.58	27.65	25.59	26.17	27.67	29.15	27.2
7/14/2007 6:00	0	18.02	25.89	30.25	27.68	25.59	25.59	27.2	29.05	27.2
7/14/2007 7:00	0	17.51	25.34	29.92	27.73	25.59	25.16	26.68	28.89	27.22
7/14/2007 8:00	0	18.69	25.3	29.6	27.73	25.59	25.16	26.39	28.73	27.28
7/14/2007 9:00	0	20.98	25.64	29.31	27.7	25.56	25.64	26.34	28.55	27.25
7/14/2007 10:00	0	23.17	27.53	29.05	27.67	25.57	27.02	26.74	28.44	27.26
7/14/2007 11:00	0	24.8	29.95	28.8	27.64	25.56	28.7	27.49	28.29	27.23
7/14/2007 12:00	0	26.56	33.09	28.69	27.61	25.56	30.95	28.69	28.19	27.22
7/14/2007 13:00	0	27.34	35.55	28.71	27.58	25.59	32.79	30.05	28.11	27.21
7/14/2007 14:00	0	28.41	38.55	28.86	27.51	25.57	35.02	31.55	28.09	27.18
7/14/2007 15:00	0	28.92	40.93	29.17	27.48	25.57	36.85	33.02	28.16	27.18
7/14/2007 16:00	0	29.48	42.36	29.58	27.45	25.55	37.95	34.34	28.29	27.15
7/14/2007 17:00	0	29.41	43.15	30.13	27.43	25.54	38.68	35.28	28.51	27.15
7/14/2007 18:00	0	29.27	42.99	30.7	27.37	25.52	38.65	35.91	28.67	27.13
7/14/2007 19:00	0	28.79	42.1	31.23	27.35	25.52	38.02	36.01	28.96	27.13
7/14/2007 20:00	0	27.44	40.32	31.77	27.38	25.54	36.82	35.75	29.16	27.08
7/14/2007 21:00	0	24.89	38.21	32.16	27.42	25.53	35.24	35.11	29.43	27.12
7/14/2007 22:00	0	22.54	36.2	32.42	27.49	25.52	33.79	34.21	29.62	27.08
7/14/2007 23:00	0	21.52	34.43	32.54	27.52	25.53	32.53	33.28	29.78	27.1
7/15/2007 0:00	0	20.2	32.94	32.56	27.61	25.52	31.39	32.39	29.88	27.09
7/15/2007 0:00	0	20.2	32.94	32.56	27.61	25.52	31.39	32.39	29.88	27.09
7/15/2007 1:00	0	19.49	31.89	32.4	27.7	25.5	30.62	31.63	29.89	27.1
7/15/2007 2:00	0	19.6	30.87	32.23	27.71	25.49	29.81	30.96	29.89	27.12
7/15/2007 3:00	0	18.62	29.93	32.02	27.78	25.5	29.06	30.31	29.82	27.18
7/15/2007 4:00	0	17.61	29.04	31.78	27.88	25.52	28.34	29.68	29.77	27.2
7/15/2007 5:00	0	17.36	28.11	31.49	27.88	25.52	27.58	29.04	29.68	27.2
7/15/2007 6:00	0	17.42	27.28	31.2	27.95	25.52	26.84	28.42	29.6	27.2
7/15/2007 7:00	0	17.04	26.54	30.87	27.96	25.52	26.24	27.85	29.44	27.24
7/15/2007 8:00	0	18.37	26.39	30.55	27.96	25.52	26.17	27.43	29.28	27.28
7/15/2007 9:00	0	20.93	26.78	30.24	27.95	25.59	26.6	27.28	29.18	27.27
7/15/2007 10:00	0	22.47	28.37	29.95	27.98	25.54	27.68	27.57	28.99	27.3
7/15/2007 11:00	0	24.62	30.68	29.71	27.94	25.57	29.2	28.2	28.84	27.31
7/15/2007 12:00	0	25.53	33.71	29.56	27.91	25.56	31.27	29.24	28.74	27.32
7/15/2007 13:00	0	25.91	36.99	29.53	27.87	25.58	33.6	30.64	28.64	27.33
7/15/2007 14:00	0	26.85	39.81	29.65	27.82	25.57	35.69	32.2	28.63	27.33
7/15/2007 15:00	0	27.59	42.1	29.97	27.78	25.57	37.48	33.66	28.7	27.33
7/15/2007 16:00	0	28.08	43.66	30.4	27.76	25.6	38.69	34.93	28.77	27.3
7/15/2007 17:00	0	28.11	44.55	30.91	27.74	25.6	39.32	35.93	28.97	27.29
7/15/2007 18:00	0	28.49	44.51	31.49	27.72	25.59	39.37	36.59	29.19	27.27

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/15/2007 19:00	0	28.14	43.72	32.07	27.72	25.59	38.75	36.74	29.43	27.27
7/15/2007 20:00	0	27.4	42	32.6	27.72	25.59	37.6	36.49	29.67	27.27
7/15/2007 21:00	0	25.83	39.68	33	27.77	25.56	35.99	35.79	29.88	27.24
7/15/2007 22:00	0	23.16	37.46	33.29	27.82	25.6	34.43	34.89	30.07	27.22
7/15/2007 23:00	0	22.08	35.61	33.42	27.89	25.6	33.15	33.94	30.22	27.25
7/16/2007 0:00	0	21.25	34.06	33.43	27.95	25.61	32.02	33	30.31	27.26
7/16/2007 0:00	0	21.25	34.06	33.43	27.95	25.61	32.02	33	30.31	27.26
7/16/2007 1:00	0	20.54	32.74	33.27	28	25.62	31.11	32.22	30.37	27.29
7/16/2007 2:00	0	21.02	31.72	33.11	28.08	25.63	30.38	31.46	30.38	27.32
7/16/2007 3:00	0.1	20.29	30.79	32.84	28.16	25.63	29.65	30.87	30.3	27.32
7/16/2007 4:00	0.01	19.57	29.33	32.58	28.23	25.63	28.39	30.13	30.21	27.32
7/16/2007 5:00	0	19.43	28.17	32.24	28.24	25.64	27.48	29.26	30.14	27.4
7/16/2007 6:00	0	19.45	27.5	31.91	28.34	25.66	26.97	28.65	30	27.42
7/16/2007 7:00	0	19.73	27.05	31.58	28.34	25.66	26.68	28.17	29.84	27.42
7/16/2007 8:00	0	20.4	27.01	31.17	28.31	25.64	26.66	27.85	29.7	27.48
7/16/2007 9:00	0	22.4	27.48	30.84	28.31	25.64	27.04	27.75	29.54	27.47
7/16/2007 10:00	0	24.28	29.65	30.53	28.35	25.67	28.59	28.12	29.37	27.51
7/16/2007 11:00	0	26.4	32.47	30.29	28.31	25.7	30.6	29.04	29.21	27.51
7/16/2007 12:00	0	28.26	35.47	30.15	28.28	25.72	32.83	30.3	29.1	27.48
7/16/2007 13:00	0	29.28	38.4	30.21	28.23	25.71	35.02	31.79	29.09	27.54
7/16/2007 14:00	0	30	41.12	30.38	28.21	25.69	37.05	33.34	29.07	27.53
7/16/2007 15:00	0	30.85	43.29	30.76	28.17	25.76	38.78	34.8	29.15	27.53
7/16/2007 16:00	0	31.23	44.89	31.23	28.11	25.74	39.95	36.11	29.27	27.5
7/16/2007 17:00	0	31.59	45.81	31.82	28.1	25.73	40.62	37.09	29.43	27.5
7/16/2007 18:00	0	31.6	45.75	32.39	28.08	25.75	40.68	37.66	29.68	27.47
7/16/2007 19:00	0	30.98	44.82	32.91	28.08	25.74	40	37.86	29.92	27.47
7/16/2007 20:00	0	28.75	42.89	33.42	28.13	25.75	38.67	37.53	30.18	27.44
7/16/2007 21:00	0	27.27	40.97	33.86	28.16	25.74	37.38	36.88	30.44	27.48
7/16/2007 22:00	0	25.18	39.15	34.13	28.19	25.74	36.17	36.12	30.66	27.46
7/16/2007 23:00	0	24.47	37.61	34.26	28.29	25.76	35.1	35.38	30.81	27.49
7/17/2007 0:00	0	23.85	36	34.26	28.34	25.76	34.02	34.6	30.91	27.5
7/17/2007 0:00	0	23.85	36	34.26	28.34	25.76	34.02	34.6	30.91	27.5
7/17/2007 1:00	0	22.69	34.62	34.17	28.44	25.75	32.99	33.79	30.97	27.52
7/17/2007 2:00	0	22.06	33.34	34.03	28.52	25.75	32.07	33.06	31.01	27.52
7/17/2007 3:00	0	21.24	32.3	33.81	28.61	25.76	31.19	32.3	30.94	27.57
7/17/2007 4:00	0	21.23	31.38	33.56	28.66	25.78	30.46	31.63	30.95	27.62
7/17/2007 5:00	0	21.35	30.6	33.29	28.7	25.78	29.81	31.04	30.87	27.62
7/17/2007 6:00	0	21.31	29.89	32.93	28.77	25.8	29.25	30.46	30.71	27.69
7/17/2007 7:00	0	20.9	29.33	32.59	28.78	25.85	28.72	29.97	30.62	27.7
7/17/2007 8:00	0	22.44	29.25	32.32	28.78	25.85	28.7	29.65	30.47	27.74
7/17/2007 9:00	0	24	29.7	31.94	28.79	25.83	29.22	29.54	30.35	27.75
7/17/2007 10:00	0	24.95	30.75	31.68	28.82	25.89	29.95	29.77	30.22	27.78
7/17/2007 11:00	0	26.21	32.08	31.48	28.78	25.88	30.85	30.19	30.07	27.79
7/17/2007 12:00	0	27.81	33.96	31.3	28.75	25.9	32.19	30.79	29.98	27.82
7/17/2007 13:00	0	29.94	37.18	31.26	28.73	25.95	34.57	31.93	29.92	27.82
7/17/2007 14:00	0	31.77	40.1	31.29	28.71	25.93	36.67	33.37	29.89	27.86
7/17/2007 15:00	0	33.48	42.66	31.52	28.68	25.97	38.58	34.8	29.87	27.83
7/17/2007 16:00	0	33.69	44.49	31.91	28.65	25.95	39.95	36.2	30	27.85
7/17/2007 17:00	0	33.53	44.74	32.33	28.64	25.95	40.27	37.09	30.12	27.86

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/17/2007 18:00	0	33.93	44.96	32.82	28.62	25.99	40.51	37.66	30.29	27.85
7/17/2007 19:00	0	33.1	44.52	33.35	28.61	25.99	40.2	37.97	30.53	27.85
7/17/2007 20:00	0	31.28	43.17	33.81	28.62	25.99	39.24	37.86	30.74	27.83
7/17/2007 21:00	0	28.19	41.32	34.14	28.66	25.97	37.94	37.32	30.92	27.82
7/17/2007 22:00	0	25.94	39.45	34.44	28.68	26.01	36.62	36.59	31.14	27.87
7/17/2007 23:00	0	25.34	37.78	34.55	28.74	25.99	35.45	35.79	31.29	27.85
7/18/2007 0:00	0	24.8	36.3	34.59	28.8	26.01	34.4	35	31.4	27.87
7/18/2007 0:00	0	24.8	36.3	34.59	28.8	26.01	34.4	35	31.4	27.87
7/18/2007 1:00	0	25.67	34.96	34.54	28.88	26.01	33.44	34.21	31.44	27.87
7/18/2007 2:00	0	25.28	33.91	34.38	28.97	26.03	32.64	33.51	31.46	27.93
7/18/2007 3:00	0	25.1	32.98	34.16	29.03	26.04	31.94	32.89	31.46	27.95
7/18/2007 4:00	0	24.68	32.2	33.9	29.06	26.04	31.26	32.28	31.39	27.98
7/18/2007 5:00	0	24.71	31.65	33.62	29.14	26.05	30.88	31.78	31.34	28.01
7/18/2007 6:00	0	24.73	31.18	33.34	29.14	26.08	30.51	31.4	31.22	28.05
7/18/2007 7:00	0	24.66	30.8	33.07	29.18	26.08	30.18	31.05	31.09	28.05
7/18/2007 8:00	0	24.04	30.51	32.81	29.2	26.11	29.94	30.75	31.01	28.09
7/18/2007 9:00	0	24.95	30.84	32.54	29.21	26.11	30.1	30.59	30.88	28.13
7/18/2007 10:00	0	26.8	32.06	32.25	29.2	26.14	30.9	30.65	30.77	28.14
7/18/2007 11:00	0	27.74	34.74	32.09	29.21	26.18	32.81	31.33	30.66	28.19
7/18/2007 12:00	0	28.92	37.11	31.97	29.18	26.15	34.52	32.41	30.55	28.16
7/18/2007 13:00	0	29.28	38.24	31.97	29.14	26.18	35.32	33.33	30.47	28.16
7/18/2007 14:00	0	30.23	39.983	32.187	29.110	26.200	36.627	34.253	30.507	28.173
7/18/2007 15:00	0	31.4	41.727	32.403	29.080	26.220	37.933	35.177	30.543	28.187
7/18/2007 16:00	0	32.3	43.47	32.62	29.05	26.24	39.24	36.1	30.58	28.2
7/18/2007 17:00	0	31.49	43.67	32.83	29.04	26.24	39.41	36.6	30.66	28.19
7/18/2007 18:00	0	27.42	42.74	33.23	29.01	26.23	38.8	37	30.8	28.2
7/18/2007 19:00	0	21.7	39.74	33.58	28.99	26.23	36.67	36.58	30.95	28.18
7/18/2007 20:00	0	22.4	37.1	33.87	29	26.24	34.68	35.44	31.12	28.19
7/18/2007 21:00	0	22.48	35.59	34	29.03	26.26	33.68	34.47	31.25	28.21
7/18/2007 22:00	0	22.03	34.31	33.97	29.06	26.26	32.8	33.68	31.33	28.21
7/18/2007 23:00	0	21.4	33.18	33.86	29.08	26.27	31.95	32.98	31.36	28.22
7/19/2007 0:00	0	21.15	32.08	33.69	29.13	26.29	31.13	32.29	31.36	28.23
7/19/2007 0:00	0	21.15	32.08	33.69	29.13	26.29	31.13	32.29	31.36	28.23
7/19/2007 1:00	0.26	20.9	30.47	33.5	29.18	26.29	30.27	31.64	31.28	28.23
7/19/2007 2:00	0.39	20.7	28.32	33.19	29.32	26.29	29.09	30.84	31.2	28.24
7/19/2007 3:00	0.12	20.78	27.66	32.76	29.44	26.29	28.42	30.11	31.09	28.28
7/19/2007 4:00	0.16	20.77	26.98	32.3	29.52	26.29	27.84	29.51	30.96	28.31
7/19/2007 5:00	0.01	20.73	26.45	31.83	29.57	26.33	27.34	28.99	30.8	28.31
7/19/2007 6:00	0.01	20.59	26.16	31.42	29.52	26.36	26.93	28.53	30.64	28.31
7/19/2007 7:00	0	20.79	25.91	31.05	29.47	26.36	26.59	28.14	30.47	28.31
7/19/2007 8:00	0	21.09	25.73	30.71	29.4	26.38	26.37	27.8	30.29	28.31
7/19/2007 9:00	0	21.91	25.98	30.39	29.33	26.43	26.47	27.6	30.12	28.34
7/19/2007 10:00	0	23.15	26.86	30.1	29.25	26.43	27.08	27.65	29.95	28.36
7/19/2007 11:00	0	24.61	28.5	29.86	29.2	26.47	28.17	28.02	29.79	28.36
7/19/2007 12:00	0	26.33	30.83	29.69	29.1	26.47	29.73	28.71	29.64	28.34
7/19/2007 13:00	0	27.08	34.07	29.61	29.03	26.48	32.05	29.88	29.53	28.32
7/19/2007 14:00	0	27.69	36.72	29.66	28.94	26.5	34.05	31.29	29.45	28.3
7/19/2007 15:00	0	27.95	39.08	29.88	28.87	26.53	35.89	32.71	29.44	28.27
7/19/2007 16:00	0	28.13	40.92	30.23	28.8	26.53	37.33	34.02	29.49	28.26

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/19/2007 17:00	0	27.73	41.99	30.68	28.73	26.51	38.19	35.09	29.6	28.24
7/19/2007 18:00	0	27.35	42.26	31.19	28.69	26.51	38.41	35.81	29.75	28.22
7/19/2007 19:00	0	26.44	41.55	31.71	28.66	26.51	37.97	36.11	29.94	28.2
7/19/2007 20:00	0	25.09	40.1	32.19	28.61	26.49	36.96	35.95	30.13	28.14
7/19/2007 21:00	0	22.5	37.99	32.59	28.63	26.51	35.45	35.39	30.34	28.13
7/19/2007 22:00	0	20.35	35.86	32.85	28.64	26.49	33.83	34.49	30.5	28.12
7/19/2007 23:00	0	19.32	33.97	32.99	28.67	26.49	32.4	33.5	30.64	28.12
7/20/2007 0:00	0	18.05	32.3	32.97	28.7	26.5	31.1	32.51	30.71	28.1
7/20/2007 0:00	0	18.05	32.3	32.97	28.7	26.5	31.1	32.51	30.71	28.1
7/20/2007 1:00	0	17.06	30.78	32.84	28.77	26.51	29.88	31.55	30.73	28.1
7/20/2007 2:00	0	16.3	29.41	32.62	28.81	26.47	28.77	30.62	30.73	28.11
7/20/2007 3:00	0	15.5	28.19	32.32	28.81	26.46	27.76	29.74	30.63	28.11
7/20/2007 4:00	0	15.07	27.08	31.98	28.87	26.47	26.82	28.92	30.53	28.12
7/20/2007 5:00	0	13.94	26.06	31.62	28.91	26.48	25.96	28.15	30.39	28.14
7/20/2007 6:00	0	13.53	25.09	31.23	28.91	26.49	25.13	27.41	30.21	28.14
7/20/2007 7:00	0	13.64	24.21	30.82	28.88	26.49	24.4	26.71	30.02	28.16
7/20/2007 8:00	0	15.34	23.86	30.42	28.86	26.49	24.11	26.15	29.82	28.18
7/20/2007 9:00	0	17.34	23.81	30.03	28.84	26.49	24.42	25.91	29.62	28.19
7/20/2007 10:00	0	19.17	24.91	29.66	28.8	26.51	25.45	26.02	29.41	28.18
7/20/2007 11:00	0	21.06	27.58	29.34	28.76	26.49	27.15	26.65	29.2	28.17
7/20/2007 12:00	0	22.33	30.72	29.1	28.71	26.49	29.23	27.72	29.02	28.15
7/20/2007 13:00	0	23.3	33.94	29	28.64	26.49	31.45	29.09	28.89	28.14
7/20/2007 14:00	0	23.97	36.68	29.05	28.57	26.48	33.4	30.55	28.81	28.12
7/20/2007 15:00	0	24.62	38.45	29.27	28.51	26.49	34.74	31.89	28.81	28.11
7/20/2007 16:00	0	24.85	39.97	29.64	28.45	26.5	35.91	32.98	28.88	28.08
7/20/2007 17:00	0	25.11	41.23	30.07	28.4	26.51	36.96	33.99	28.99	28.04
7/20/2007 18:00	0	24.92	41.45	30.58	28.36	26.51	37.27	34.74	29.15	28.01
7/20/2007 19:00	0	24.57	40.67	31.1	28.31	26.5	36.84	35.08	29.33	28
7/20/2007 20:00	0	23.69	39.04	31.57	28.32	26.45	35.76	34.89	29.52	27.94
7/20/2007 21:00	0	21.24	36.89	31.96	28.29	26.46	34.3	34.32	29.72	27.93
7/20/2007 22:00	0	19.05	34.74	32.22	28.31	26.44	32.71	33.45	29.88	27.9
7/20/2007 23:00	0	18.06	32.77	32.3	28.36	26.42	31.27	32.46	30.01	27.89
7/21/2007 0:00	0	17.5	31.06	32.29	28.39	26.43	29.98	31.47	30.07	27.87
7/21/2007 0:00	0	17.5	31.06	32.29	28.39	26.43	29.98	31.47	30.07	27.87
7/21/2007 1:00	0	16.71	29.57	32.17	28.42	26.45	28.83	30.54	30.1	27.88
7/21/2007 2:00	0	16.24	28.31	31.93	28.49	26.39	27.8	29.64	30.08	27.88
7/21/2007 3:00	0	15.81	27.21	31.63	28.5	26.39	26.9	28.82	30	27.88
7/21/2007 4:00	0	15.24	26.24	31.3	28.53	26.4	26.09	28.08	29.9	27.9
7/21/2007 5:00	0	14.72	25.35	30.95	28.56	26.41	25.35	27.39	29.76	27.91
7/21/2007 6:00	0	14.48	24.54	30.57	28.57	26.41	24.65	26.75	29.59	27.91
7/21/2007 7:00	0	14.51	23.79	30.19	28.56	26.41	24.02	26.15	29.41	27.91
7/21/2007 8:00	0	15.94	23.38	29.81	28.53	26.41	23.74	25.64	29.22	27.91
7/21/2007 9:00	0	18.32	23.25	29.45	28.52	26.41	24.07	25.42	29.03	27.91
7/21/2007 10:00	0	20.39	24.45	29.11	28.49	26.41	25.09	25.57	28.84	27.92
7/21/2007 11:00	0	21.62	27.13	28.79	28.45	26.41	26.8	26.22	28.65	27.91
7/21/2007 12:00	0	22.71	30.14	28.57	28.39	26.39	28.82	27.28	28.48	27.88
7/21/2007 13:00	0	23.57	33.14	28.49	28.33	26.41	30.98	28.63	28.37	27.87
7/21/2007 14:00	0	24.22	35.94	28.54	28.27	26.41	33.03	30.1	28.3	27.83
7/21/2007 15:00	0	24.69	38.22	28.75	28.19	26.39	34.79	31.54	28.3	27.81

Date/Time	Precip. (in)	T _{air} (°C)	T _{ppcc} , 8cm (°C)	T _{ppcc} , 40cm (°C)	T _{ppcc} , 60cm (°C)	T _{ppcc} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/21/2007 16:00	0	25.34	39.96	29.12	28.14	26.39	36.14	32.86	28.39	27.81
7/21/2007 17:00	0	25.49	40.97	29.6	28.11	26.38	36.94	33.9	28.52	27.79
7/21/2007 18:00	0	25.48	41.23	30.12	28.06	26.37	37.14	34.58	28.7	27.72
7/21/2007 19:00	0	25.26	40.57	30.67	28.01	26.36	36.73	34.89	28.9	27.7
7/21/2007 20:00	0	24.52	39.11	31.18	28	26.36	35.76	34.74	29.11	27.68
7/21/2007 21:00	0	22.33	37.06	31.58	28.01	26.35	34.34	34.2	29.32	27.64
7/21/2007 22:00	0	20.35	34.96	31.87	28.02	26.33	32.83	33.38	29.5	27.62
7/21/2007 23:00	0	19.46	33.11	32.02	28.05	26.33	31.48	32.45	29.64	27.6
7/22/2007 0:00	0	18.81	31.51	32.04	28.1	26.33	30.29	31.54	29.73	27.62
7/22/2007 0:00	0	18.81	31.51	32.04	28.1	26.33	30.29	31.54	29.73	27.62
7/22/2007 1:00	0	18.04	30.17	31.93	28.16	26.29	29.27	30.67	29.77	27.62
7/22/2007 2:00	0	17.6	29.04	31.75	28.21	26.31	28.37	29.89	29.76	27.64
7/22/2007 3:00	0	16.97	28.06	31.5	28.26	26.31	27.57	29.16	29.72	27.64
7/22/2007 4:00	0	16.85	27.17	31.2	28.27	26.31	26.84	28.49	29.63	27.65
7/22/2007 5:00	0	16.42	26.34	30.88	28.32	26.3	26.14	27.87	29.51	27.65
7/22/2007 6:00	0	16.25	25.63	30.56	28.35	26.27	25.55	27.29	29.38	27.66
7/22/2007 7:00	0	16.42	25.03	30.24	28.36	26.27	25.04	26.78	29.23	27.67
7/22/2007 8:00	0	17.61	24.76	29.91	28.35	26.28	24.82	26.36	29.07	27.66
7/22/2007 9:00	0	19.79	25.07	29.58	28.34	26.31	25.16	26.22	28.91	27.65
7/22/2007 10:00	0	21.99	26	29.3	28.33	26.3	25.76	26.29	28.75	27.67
7/22/2007 11:00	0	23.45	28.25	29.04	28.29	26.29	27.31	26.8	28.59	27.68
7/22/2007 12:00	0	24.33	30.99	28.86	28.22	26.3	29.28	27.75	28.45	27.65
7/22/2007 13:00	0	24.83	33.4	28.78	28.18	26.29	31.06	28.99	28.35	27.65
7/22/2007 14:00	0	25.94	35.19	28.86	28.13	26.29	32.47	30.16	28.29	27.64
7/22/2007 15:00	0	26.83	36.53	29.07	28.1	26.31	33.57	31.18	28.33	27.61
7/22/2007 16:00	0	27.36	38.15	29.36	28.04	26.31	34.82	32.14	28.38	27.58
7/22/2007 17:00	0	27.76	39.71	29.72	28.01	26.29	36.03	33.14	28.48	27.55
7/22/2007 18:00	0	27.3	40.32	30.12	27.97	26.27	36.61	33.97	28.61	27.53
7/22/2007 19:00	0	26.96	39.9	30.59	27.91	26.27	36.41	34.43	28.78	27.53
7/22/2007 20:00	0	25.85	38.84	31.04	27.93	26.28	35.69	34.47	28.98	27.49
7/22/2007 21:00	0	24.36	37.16	31.41	27.94	26.24	34.49	34.08	29.16	27.48
7/22/2007 22:00	0	22.89	35.34	31.69	27.94	26.24	33.2	33.41	29.34	27.46
7/22/2007 23:00	0	21.74	33.73	31.86	27.97	26.25	32.04	32.65	29.48	27.46
7/23/2007 0:00	0	20.51	32.33	31.9	28.03	26.22	30.99	31.86	29.57	27.45
7/23/2007 0:00	0	20.51	32.33	31.9	28.03	26.22	30.99	31.86	29.57	27.45
7/23/2007 1:00	0	19.96	31.17	31.85	28.07	26.21	30.11	31.13	29.64	27.47
7/23/2007 2:00	0	19.75	30.16	31.72	28.12	26.21	29.32	30.45	29.65	27.47
7/23/2007 3:00	0	21.28	29.38	31.53	28.16	26.21	28.77	29.86	29.62	27.47
7/23/2007 4:00	0	20.99	28.8	31.3	28.2	26.21	28.35	29.39	29.56	27.47
7/23/2007 5:00	0.1	19.95	28.19	31.05	28.23	26.21	27.87	28.98	29.48	27.47
7/23/2007 6:00	0.541	18.07	26.66	30.78	28.25	26.22	26.86	28.44	29.39	27.49
7/23/2007 7:00	0.02	18.22	25.79	30.49	28.26	26.24	26.05	27.77	29.3	27.5
7/23/2007 8:00	0	19.02	25.43	30.15	28.26	26.24	25.64	27.21	29.17	27.51
7/23/2007 9:00	0	20.66	25.81	29.83	28.3	26.23	25.93	26.93	29.04	27.56
7/23/2007 10:00	0	22.23	26.86	29.51	28.3	26.21	26.82	27.06	28.88	27.54
7/23/2007 11:00	0	23.83	29.11	29.27	28.27	26.22	28.33	27.58	28.75	27.54
7/23/2007 12:00	0	24.88	32.02	29.1	28.24	26.22	30.38	28.59	28.62	27.52
7/23/2007 13:00	0	25.85	35.11	29.06	28.19	26.24	32.59	29.93	28.54	27.52
7/23/2007 14:00	0	26.53	38	29.19	28.18	26.24	34.74	31.45	28.49	27.52

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/23/2007 15:00	0	27.24	39.79	29.47	28.1	26.22	36.17	32.83	28.54	27.49
7/23/2007 16:00	0	27.72	41.32	29.89	28.09	26.22	37.4	34.04	28.63	27.48
7/23/2007 17:00	0	27.89	41.89	30.41	28.06	26.22	37.91	34.95	28.78	27.48
7/23/2007 18:00	0	28.03	42.19	30.97	28.03	26.24	38.23	35.52	28.98	27.46
7/23/2007 19:00	0	27.7	41.98	31.51	28.05	26.26	38.14	35.91	29.19	27.45
7/23/2007 20:00	0	26.78	40.73	32	28.06	26.23	37.32	35.89	29.4	27.45
7/23/2007 21:00	0	25.17	38.95	32.41	28.05	26.22	36.09	35.48	29.62	27.43
7/23/2007 22:00	0	23.47	37.04	32.72	28.09	26.22	34.71	34.78	29.82	27.44
7/23/2007 23:00	0	22.48	35.29	32.88	28.14	26.21	33.43	33.94	29.98	27.43
7/24/2007 0:00	0	21.39	33.8	32.91	28.21	26.21	32.29	33.1	30.09	27.44
7/24/2007 0:00	0	21.39	33.8	32.91	28.21	26.21	32.29	33.1	30.09	27.44
7/24/2007 1:00	0	20.47	32.52	32.86	28.28	26.2	31.28	32.28	30.17	27.46
7/24/2007 2:00	0	19.87	31.42	32.71	28.35	26.21	30.42	31.53	30.2	27.47
7/24/2007 3:00	0	19.76	30.45	32.49	28.39	26.21	29.64	30.84	30.15	27.47
7/24/2007 4:00	0	19.72	29.66	32.23	28.47	26.21	29	30.21	30.1	27.5
7/24/2007 5:00	0	19.15	28.92	31.95	28.48	26.22	28.38	29.67	30.02	27.55
7/24/2007 6:00	0	18.66	28.15	31.68	28.57	26.24	27.72	29.13	29.93	27.57
7/24/2007 7:00	0	18.46	27.43	31.37	28.57	26.24	27.11	28.58	29.81	27.58
7/24/2007 8:00	0	19.53	27	31.05	28.57	26.24	26.79	28.11	29.68	27.59
7/24/2007 9:00	0	21.24	27.02	30.75	28.57	26.24	26.91	27.88	29.54	27.64
7/24/2007 10:00	0	23.76	27.87	30.45	28.55	26.28	27.45	27.87	29.39	27.63
7/24/2007 11:00	0	25.37	29.89	30.19	28.55	26.27	28.75	28.24	29.25	27.65
7/24/2007 12:00	0	26.35	32.97	30.01	28.52	26.29	30.82	29.15	29.13	27.67
7/24/2007 13:00	0	27.25	36.24	29.94	28.5	26.31	33.11	30.46	29.04	27.65
7/24/2007 14:00	0	27.63	39.25	30.02	28.46	26.29	35.31	31.98	28.98	27.63
7/24/2007 15:00	0	28.2	41.71	30.29	28.4	26.29	37.17	33.51	29.02	27.63
7/24/2007 16:00	0	28.47	43.25	30.71	28.39	26.29	38.4	34.83	29.09	27.62
7/24/2007 17:00	0	28.64	43.9	31.23	28.37	26.33	38.99	35.79	29.23	27.62
7/24/2007 18:00	0	28.37	43.79	31.81	28.35	26.34	39.08	36.4	29.43	27.61
7/24/2007 19:00	0	28.12	42.91	32.37	28.3	26.34	38.62	36.63	29.64	27.6
7/24/2007 20:00	0	26.68	41.41	32.86	28.32	26.31	37.7	36.46	29.88	27.62
7/24/2007 21:00	0	24.89	39.45	33.26	28.37	26.31	36.36	35.95	30.09	27.6
7/24/2007 22:00	0	23.79	37.57	33.51	28.41	26.32	35.03	35.18	30.28	27.6
7/24/2007 23:00	0	22.95	35.9	33.66	28.47	26.32	33.81	34.35	30.43	27.62
7/25/2007 0:00	0	22.5	34.45	33.65	28.53	26.33	32.74	33.52	30.53	27.63
7/25/2007 0:00	0	22.5	34.45	33.65	28.53	26.33	32.74	33.52	30.53	27.63
7/25/2007 1:00	0	21.75	33.17	33.55	28.6	26.33	31.79	32.74	30.59	27.64
7/25/2007 2:00	0	20.83	32.01	33.38	28.68	26.35	30.88	32.01	30.61	27.67
7/25/2007 3:00	0	19.81	30.91	33.15	28.74	26.35	30	31.29	30.56	27.7
7/25/2007 4:00	0	18.99	29.9	32.87	28.78	26.35	29.16	30.58	30.51	27.7
7/25/2007 5:00	0	18.7	29.04	32.58	28.85	26.37	28.44	29.93	30.43	27.72
7/25/2007 6:00	0	18.28	28.29	32.25	28.89	26.38	27.8	29.33	30.32	27.78
7/25/2007 7:00	0	18.7	27.72	31.91	28.89	26.39	27.31	28.79	30.19	27.8
7/25/2007 8:00	0	20.48	27.42	31.57	28.89	26.39	27.09	28.38	30.04	27.8
7/25/2007 9:00	0	22.51	27.38	31.25	28.89	26.38	27.26	28.18	29.88	27.84
7/25/2007 10:00	0	24.64	28.53	30.94	28.91	26.41	28.07	28.23	29.73	27.85
7/25/2007 11:00	0	26.32	31.06	30.67	28.88	26.41	29.75	28.82	29.59	27.85
7/25/2007 12:00	0	27.79	34.07	30.5	28.84	26.42	31.82	29.87	29.46	27.88
7/25/2007 13:00	0	28.69	37.16	30.45	28.79	26.44	34.03	31.22	29.36	27.86

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/25/2007 14:00	0	29.4	39.93	30.56	28.78	26.44	36.1	32.72	29.33	27.86
7/25/2007 15:00	0	30	42.21	30.84	28.71	26.43	37.88	34.19	29.36	27.84
7/25/2007 16:00	0	30.25	43.84	31.26	28.68	26.46	39.18	35.49	29.46	27.83
7/25/2007 17:00	0	30.14	44.79	31.81	28.68	26.49	39.98	36.54	29.63	27.83
7/25/2007 18:00	0	30.08	45	32.37	28.66	26.47	40.18	37.23	29.82	27.83
7/25/2007 19:00	0	29.72	44.33	32.94	28.65	26.46	39.78	37.53	30.04	27.8
7/25/2007 20:00	0	28.23	42.93	33.48	28.67	26.48	38.86	37.42	30.29	27.82
7/25/2007 21:00	0	25.93	40.96	33.9	28.7	26.46	37.49	36.91	30.52	27.81
7/25/2007 22:00	0	23.71	38.96	34.2	28.74	26.47	36.05	36.13	30.72	27.81
7/25/2007 23:00	0	23.05	37.19	34.36	28.78	26.47	34.76	35.25	30.89	27.83
7/26/2007 0:00	0	22.14	35.7	34.38	28.86	26.47	33.65	34.39	31.01	27.86
7/26/2007 0:00	0	22.14	35.7	34.38	28.86	26.47	33.65	34.39	31.01	27.86
7/26/2007 1:00	0	21.49	34.38	34.29	28.92	26.48	32.66	33.57	31.06	27.86
7/26/2007 2:00	0	20.97	33.21	34.13	29	26.49	31.76	32.82	31.09	27.88
7/26/2007 3:00	0	20.35	32.17	33.92	29.09	26.51	30.93	32.11	31.06	27.93
7/26/2007 4:00	0	19.69	31.21	33.64	29.14	26.5	30.15	31.43	31.01	27.93
7/26/2007 5:00	0	19.21	30.33	33.34	29.17	26.51	29.43	30.79	30.92	27.95
7/26/2007 6:00	0	18.8	29.53	33.03	29.24	26.52	28.77	30.2	30.82	28.02
7/26/2007 7:00	0	18.89	28.83	32.71	29.28	26.53	28.19	29.65	30.71	28.03
7/26/2007 8:00	0	20.68	28.45	32.37	29.28	26.54	27.92	29.19	30.57	28.06
7/26/2007 9:00	0	23.4	28.45	32.02	29.26	26.57	28.12	28.96	30.41	28.08
7/26/2007 10:00	0	25.69	29.62	31.71	29.28	26.58	28.96	29.03	30.26	28.11
7/26/2007 11:00	0	27.47	32.12	31.45	29.26	26.6	30.63	29.62	30.12	28.12
7/26/2007 12:00	0	28.81	35.07	31.27	29.23	26.6	32.68	30.67	29.99	28.11
7/26/2007 13:00	0	29.82	38.12	31.22	29.18	26.62	34.86	32.01	29.89	28.16
7/26/2007 14:00	0	30.73	41.03	31.34	29.16	26.64	36.98	33.5	29.87	28.14
7/26/2007 15:00	0	31.37	43.25	31.62	29.13	26.63	38.67	34.97	29.9	28.13
7/26/2007 16:00	0	31.53	44.79	32.07	29.07	26.64	39.9	36.24	30	28.13
7/26/2007 17:00	0	31.32	45.15	32.59	29.05	26.68	40.26	37.13	30.16	28.12
7/26/2007 18:00	0	30.66	44.74	33.16	29.06	26.69	40.07	37.59	30.35	28.12
7/26/2007 19:00	0	29.92	44.04	33.7	29.07	26.7	39.65	37.73	30.58	28.13
7/26/2007 20:00	0	28.09	42.69	34.14	29.07	26.67	38.74	37.51	30.79	28.1
7/26/2007 21:00	0	27.28	40.88	34.5	29.11	26.67	37.5	37	31	28.1
7/26/2007 22:00	0	25.87	39.24	34.74	29.14	26.69	36.38	36.32	31.19	28.12
7/26/2007 23:00	0.43	21.43	34.43	35.26	29.29	26.69	34.4	35.46	31.33	28.13
7/27/2007 0:00	0.24	20.84	29.91	35.75	29.71	26.71	31.82	33.94	31.42	28.14
7/27/2007 0:00	0.24	20.84	29.91	35.75	29.71	26.71	31.82	33.94	31.42	28.14
7/27/2007 1:00	0.01	20.88	29.25	35.4	29.89	26.73	30.68	32.61	31.46	28.16
7/27/2007 2:00	0	21.13	28.77	34.83	30.02	26.73	29.82	31.64	31.44	28.18
7/27/2007 3:00	0	20.83	28.33	34.27	30.1	26.73	29.16	30.86	31.35	28.21
7/27/2007 4:00	0	20.79	27.87	33.74	30.13	26.79	28.73	30.25	31.24	28.23
7/27/2007 5:00	0	20.89	27.37	33.26	30.14	26.8	28.28	29.77	31.09	28.24
7/27/2007 6:00	0	21.18	26.89	32.82	30.15	26.85	27.84	29.32	30.94	28.31
7/27/2007 7:00	0	21.7	26.49	32.38	30.15	26.89	27.42	28.9	30.76	28.33
7/27/2007 8:00	0	22.14	26.4	31.97	30.09	26.91	27.25	28.55	30.58	28.32
7/27/2007 9:00	0	22.77	26.73	31.58	30.05	26.95	27.42	28.39	30.41	28.35
7/27/2007 10:00	0	23.79	27.65	31.24	29.97	26.98	27.97	28.44	30.25	28.38
7/27/2007 11:00	0	24.36	28.74	30.94	29.9	27	28.68	28.73	30.08	28.36
7/27/2007 12:00	0	24.88	29.97	30.73	29.84	27.03	29.51	29.12	29.95	28.39

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/27/2007 13:00	0	25.4	31.89	30.59	29.75	27.05	30.87	29.77	29.83	28.38
7/27/2007 14:00	0	26.18	33.75	30.54	29.69	27.08	32.23	30.66	29.76	28.37
7/27/2007 15:00	0	27.64	35.39	30.59	29.6	27.07	33.46	31.54	29.69	28.36
7/27/2007 16:00	0	27.86	37.05	30.73	29.53	27.1	34.76	32.5	29.69	28.35
7/27/2007 17:00	0	27.38	38.22	30.97	29.47	27.13	35.71	33.4	29.76	28.34
7/27/2007 18:00	0	27.61	39.07	31.26	29.42	27.11	36.37	34.14	29.83	28.32
7/27/2007 19:00	0	27.42	39.14	31.59	29.34	27.1	36.4	34.63	29.93	28.31
7/27/2007 20:00	0	26.69	38.39	31.92	29.31	27.09	35.83	34.71	30.06	28.3
7/27/2007 21:00	0	24.71	36.93	32.24	29.28	27.11	34.75	34.43	30.2	28.26
7/27/2007 22:00	0	23.18	35.33	32.47	29.27	27.1	33.54	33.83	30.32	28.25
7/27/2007 23:00	0	22.8	33.92	32.61	29.27	27.1	32.48	33.12	30.44	28.23
7/28/2007 0:00	0	22.59	32.73	32.63	29.27	27.08	31.58	32.41	30.5	28.23
7/28/2007 0:00	0	22.59	32.73	32.63	29.27	27.08	31.58	32.41	30.5	28.23
7/28/2007 1:00	0	22.59	31.89	32.56	29.31	27.08	30.94	31.79	30.53	28.22
7/28/2007 2:00	0	22.29	31.27	32.44	29.33	27.1	30.48	31.3	30.54	28.23
7/28/2007 3:00	0	21.58	30.66	32.27	29.33	27.1	29.99	30.87	30.51	28.24
7/28/2007 4:00	0	21.21	29.99	32.07	29.33	27.1	29.44	30.43	30.44	28.23
7/28/2007 5:00	0	20.91	29.43	31.86	29.33	27.1	28.99	30	30.36	28.23
7/28/2007 6:00	0	20.54	28.83	31.63	29.33	27.09	28.48	29.59	30.26	28.23
7/28/2007 7:00	0	20.93	28.37	31.39	29.33	27.09	28.1	29.2	30.17	28.24
7/28/2007 8:00	0	21.58	28.3	31.16	29.33	27.09	28.02	28.92	30.06	28.24
7/28/2007 9:00	0	23.27	28.76	30.94	29.32	27.1	28.27	28.83	29.96	28.27
7/28/2007 10:00	0	24.85	29.75	30.73	29.28	27.07	28.87	28.94	29.84	28.28
7/28/2007 11:00	0	25.72	31.82	30.56	29.23	27.08	30.27	29.42	29.73	28.29
7/28/2007 12:00	0	26.14	33.41	30.46	29.21	27.06	31.36	30.18	29.63	28.27
7/28/2007 13:00	0	26.34	34.55	30.47	29.16	27.06	32.17	30.88	29.58	28.27
7/28/2007 14:00	0	27.11	35.79	30.56	29.13	27.06	33.09	31.5	29.53	28.27
7/28/2007 15:00	0	27.84	37.55	30.73	29.11	27.06	34.41	32.31	29.59	28.27
7/28/2007 16:00	0	28.01	39.41	30.95	29.03	27.04	35.8	33.25	29.61	28.25
7/28/2007 17:00	0	27.76	40.63	31.26	29.02	27.05	36.73	34.21	29.69	28.24
7/28/2007 18:00	0	26.32	40.89	31.62	29.01	27.04	36.94	34.84	29.79	28.21
7/28/2007 19:00	0	25.32	39.78	32.01	28.97	27.04	36.15	34.98	29.93	28.17
7/28/2007 20:00	0	23.76	38.25	32.38	28.97	27.04	35.07	34.65	30.07	28.17
7/28/2007 21:00	0	22.16	36.57	32.66	28.98	27.02	33.88	34.06	30.22	28.14
7/28/2007 22:00	0	20.8	34.9	32.83	28.98	27.01	32.65	33.33	30.34	28.15
7/28/2007 23:00	0	20.33	33.34	32.9	29.01	27.01	31.5	32.51	30.43	28.15
7/29/2007 0:00	0	19.88	32.04	32.82	29.08	27.02	30.53	31.71	30.46	28.16
7/29/2007 0:00	0	19.88	32.04	32.82	29.08	27.02	30.53	31.71	30.46	28.16
7/29/2007 1:00	0	19.53	30.99	32.7	29.11	27.03	29.75	31.01	30.48	28.18
7/29/2007 2:00	0	19.1	30.01	32.5	29.12	26.99	29	30.36	30.43	28.19
7/29/2007 3:00	0	18.44	29.07	32.25	29.19	26.98	28.25	29.73	30.36	28.19
7/29/2007 4:00	0	18.02	28.17	31.97	29.2	26.98	27.53	29.11	30.26	28.19
7/29/2007 5:00	0	17.33	27.38	31.67	29.21	26.98	26.89	28.53	30.13	28.19
7/29/2007 6:00	0	17.19	26.71	31.36	29.21	26.99	26.34	28	30.01	28.2
7/29/2007 7:00	0	17.39	26.24	31.04	29.21	26.99	25.96	27.54	29.86	28.2
7/29/2007 8:00	0	18.51	26.14	30.72	29.21	26.98	25.89	27.21	29.7	28.19
7/29/2007 9:00	0	21.23	26.25	30.43	29.2	27	26.08	27.08	29.54	28.2
7/29/2007 10:00	0	23.15	27.4	30.14	29.16	27.02	26.79	27.17	29.38	28.21
7/29/2007 11:00	0	24.6	29.9	29.91	29.09	27.01	28.49	27.74	29.24	28.21

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/29/2007 12:00	0	25.73	32.64	29.75	29.06	26.99	30.44	28.79	29.11	28.2
7/29/2007 13:00	0	26.52	35.24	29.71	29.01	27.01	32.35	30.02	29.04	28.19
7/29/2007 14:00	0	27.07	37.42	29.82	28.95	27.01	33.97	31.33	28.95	28.17
7/29/2007 15:00	0	27.58	39.24	30.06	28.88	27.02	35.35	32.5	29	28.16
7/29/2007 16:00	0	27.9	40.36	30.42	28.85	27.02	36.21	33.56	29.07	28.1
7/29/2007 17:00	0	28.12	40.11	30.84	28.79	26.99	36.09	34.1	29.19	28.09
7/29/2007 18:00	0	27.73	39.73	31.29	28.78	26.97	35.86	34.33	29.35	28.09
7/29/2007 19:00	0	27.54	39.16	31.7	28.78	26.98	35.51	34.34	29.53	28.08
7/29/2007 20:00	0	26.4	38.39	32.05	28.78	26.97	34.98	34.22	29.7	28.04
7/29/2007 21:00	0	23.87	36.87	32.31	28.77	26.97	33.86	33.8	29.84	28.02
7/29/2007 22:00	0	22.17	35.22	32.49	28.78	26.95	32.67	33.14	29.96	27.99
7/29/2007 23:00	0	21.75	33.76	32.58	28.82	26.96	31.62	32.41	30.06	27.99
7/30/2007 0:00	0	21.16	32.5	32.56	28.84	26.94	30.72	31.69	30.12	27.99
7/30/2007 0:00	0	21.16	32.5	32.56	28.84	26.94	30.72	31.69	30.12	27.99
7/30/2007 1:00	0	20.76	31.39	32.47	28.91	26.95	29.91	31.02	30.13	28
7/30/2007 2:00	0	20.37	30.42	32.31	28.94	26.95	29.18	30.38	30.11	28.01
7/30/2007 3:00	0	20.21	29.74	32.11	28.96	26.97	28.68	29.84	30.07	28.02
7/30/2007 4:00	0	20.39	29.19	31.86	29.02	26.96	28.28	29.39	29.99	28.01
7/30/2007 5:00	0	20.32	28.53	31.61	29.02	26.95	27.77	28.98	29.89	28.01
7/30/2007 6:00	0	20.26	27.93	31.36	29.03	26.96	27.28	28.56	29.79	28.02
7/30/2007 7:00	0	20.21	27.43	31.1	29.04	26.97	26.89	28.16	29.69	28.03
7/30/2007 8:00	0	21.02	27.26	30.83	29.04	26.97	26.74	27.85	29.56	28.03
7/30/2007 9:00	0	22.56	27.4	30.56	29.02	26.95	26.88	27.7	29.42	28.04
7/30/2007 10:00	0	24.13	28.41	30.33	28.99	26.94	27.47	27.76	29.3	28.05
7/30/2007 11:00	0	25.06	29.61	30.13	28.98	26.95	28.27	28.08	29.18	28.05
7/30/2007 12:00	0	26.25	31.12	29.98	28.92	26.93	29.36	28.59	29.06	28.03
7/30/2007 13:00	0	27.08	33.41	29.9	28.9	26.93	31.04	29.44	28.98	28.05
7/30/2007 14:00	0	28.09	36.4	29.94	28.88	26.96	33.2	30.61	28.97	28.04
7/30/2007 15:00	0	28.29	38.73	30.07	28.8	26.96	34.93	32.03	28.95	28.02
7/30/2007 16:00	0	28.32	39.64	30.35	28.79	26.96	35.67	33.04	28.98	28.01
7/30/2007 17:00	0	28.77	41.1	30.74	28.76	26.95	36.79	33.99	29.08	28
7/30/2007 18:00	0	28.57	40.95	31.17	28.7	26.95	36.75	34.62	29.22	27.93
7/30/2007 19:00	0	28.06	40.33	31.63	28.7	26.95	36.41	34.83	29.39	27.93
7/30/2007 20:00	0	26.99	39.21	32.04	28.7	26.95	35.67	34.73	29.57	27.92
7/30/2007 21:00	0	24.58	37.43	32.36	28.71	26.9	34.4	34.26	29.73	27.89
7/30/2007 22:00	0	23.05	35.59	32.59	28.72	26.91	33.07	33.53	29.88	27.89
7/30/2007 23:00	0	22.4	33.94	32.72	28.75	26.92	31.87	32.71	30	27.87
7/31/2007 0:00	0	21.01	32.51	32.72	28.79	26.9	30.82	31.89	30.08	27.88
7/31/2007 0:00	0	21.01	32.51	32.72	28.79	26.9	30.82	31.89	30.08	27.88
7/31/2007 1:00	0	19.85	31.26	32.6	28.85	26.88	29.86	31.11	30.11	27.89
7/31/2007 2:00	0	19.36	30.15	32.44	28.88	26.9	28.98	30.38	30.1	27.88
7/31/2007 3:00	0	18.69	29.11	32.2	28.94	26.9	28.16	29.67	30.06	27.88
7/31/2007 4:00	0	19.04	28.12	31.92	28.97	26.9	27.36	29	29.97	27.88
7/31/2007 5:00	0	18.77	27.18	31.63	28.98	26.92	26.58	28.35	29.87	27.9
7/31/2007 6:00	0	16.44	26.33	31.31	29	26.91	25.89	27.72	29.75	27.95
7/31/2007 7:00	0	16.37	25.61	30.98	29	26.9	25.29	27.14	29.59	27.99
7/31/2007 8:00	0	18.31	25.2	30.64	29	26.91	25	26.66	29.43	27.99
7/31/2007 9:00	0	21.11	25.15	30.3	28.98	26.92	25.17	26.42	29.26	27.97
7/31/2007 10:00	0	23.28	26.51	29.99	28.96	26.92	25.8	26.41	29.09	27.98

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
7/31/2007 11:00	0	25.31	29.2	29.71	28.93	26.92	27.62	26.95	28.92	27.97
7/31/2007 12:00	0	26.82	32.34	29.52	28.9	26.92	29.84	28.06	28.77	27.97
7/31/2007 13:00	0	27.75	35.43	29.45	28.84	26.91	32.09	29.51	28.68	27.96
7/31/2007 14:00	0	28.23	38.01	29.56	28.8	26.9	34.03	30.97	28.64	27.95
7/31/2007 15:00	0	28.51	40.29	29.81	28.72	26.88	35.79	32.42	28.63	27.93
7/31/2007 16:00	0	28.66	41.83	30.21	28.71	26.89	37.02	33.7	28.73	27.93
7/31/2007 17:00	0	28.91	42.82	30.7	28.65	26.94	37.89	34.72	28.86	27.9
7/31/2007 18:00	0	28.7	43.01	31.27	28.6	26.93	38.19	35.45	29.06	27.85
7/31/2007 19:00	0	28.22	42.4	31.84	28.6	26.93	37.89	35.82	29.27	27.83
7/31/2007 20:00	0	26.93	41.03	32.34	28.6	26.9	36.97	35.73	29.49	27.82
7/31/2007 21:00	0	24.41	39.03	32.75	28.63	26.88	35.56	35.22	29.71	27.79
7/31/2007 22:00	0	22.94	37.05	33.04	28.67	26.88	34.15	34.43	29.91	27.79
7/31/2007 23:00	0	22.45	35.33	33.21	28.71	26.88	32.91	33.58	30.07	27.78
8/1/2007 0:00	0	21.48	33.83	33.24	28.75	26.85	31.81	32.72	30.17	27.79
8/1/2007 0:00	0	21.48	33.83	33.24	28.75	26.85	31.81	32.72	30.17	27.79
8/1/2007 1:00	0	20.53	32.54	33.16	28.83	26.87	30.85	31.93	30.22	27.78
8/1/2007 2:00	0	19.39	31.38	32.99	28.87	26.87	29.96	31.18	30.22	27.79
8/1/2007 3:00	0	18.75	30.36	32.77	28.94	26.88	29.16	30.48	30.22	27.82
8/1/2007 4:00	0	19.01	29.45	32.53	29	26.89	28.44	29.85	30.16	27.87
8/1/2007 5:00	0	18.61	28.59	32.23	29.04	26.87	27.74	29.23	30.07	27.88
8/1/2007 6:00	0	18.16	27.82	31.92	29.05	26.85	27.11	28.65	29.96	27.88
8/1/2007 7:00	0	18.05	27.13	31.59	29.07	26.85	26.54	28.11	29.82	27.88
8/1/2007 8:00	0	19.7	26.71	31.27	29.11	26.89	26.25	27.67	29.68	27.89
8/1/2007 9:00	0	22.34	26.69	30.96	29.12	26.9	26.36	27.44	29.54	27.94
8/1/2007 10:00	0	24.93	28.03	30.66	29.08	26.89	26.97	27.42	29.38	27.93
8/1/2007 11:00	0	26.92	30.57	30.4	29.07	26.9	28.74	27.93	29.23	27.94
8/1/2007 12:00	0	28.3	33.57	30.23	29.05	26.91	30.9	29.02	29.1	27.96
8/1/2007 13:00	0	29.17	36.57	30.17	28.98	26.89	33.15	30.42	29.03	27.95
8/1/2007 14:00	0	29.84	39.54	30.29	28.94	26.88	35.34	31.96	28.96	27.93
8/1/2007 15:00	0	30.33	42.12	30.57	28.93	26.94	37.27	33.51	29.01	27.92
8/1/2007 16:00	0	30.15	43.97	31	28.85	26.93	38.68	34.92	29.1	27.91
8/1/2007 17:00	0	30.54	45.01	31.55	28.82	26.92	39.5	36.01	29.26	27.9
8/1/2007 18:00	0	30.51	45.4	32.15	28.8	26.9	39.88	36.79	29.46	27.88
8/1/2007 19:00	0	30.21	44.8	32.75	28.8	26.9	39.56	37.17	29.7	27.88
8/1/2007 20:00	0	27.75	43.05	33.3	28.82	26.91	38.46	37.08	29.94	27.85
8/1/2007 21:00	0	25.36	40.86	33.77	28.87	26.89	36.97	36.5	30.2	27.86
8/1/2007 22:00	0	24.38	38.91	34.09	28.9	26.92	35.62	35.7	30.41	27.82
8/1/2007 23:00	0	23.94	37.32	34.25	28.96	26.9	34.52	34.88	30.58	27.84
8/2/2007 0:00	0	23.28	36.02	34.3	29.05	26.92	33.61	34.13	30.71	27.86
8/2/2007 0:00	0	23.28	36.02	34.3	29.05	26.92	33.61	34.13	30.71	27.86
8/2/2007 1:00	0	23.12	34.93	34.22	29.11	26.92	32.83	33.44	30.77	27.86
8/2/2007 2:00	0	23.38	33.99	34.09	29.19	26.92	32.14	32.83	30.81	27.9
8/2/2007 3:00	0	22.99	33.11	33.92	29.26	26.94	31.47	32.28	30.8	27.92
8/2/2007 4:00	0	22.84	32.31	33.71	29.33	26.94	30.85	31.73	30.78	27.94
8/2/2007 5:00	0	21.74	31.66	33.46	29.39	26.95	30.37	31.24	30.72	27.99
8/2/2007 6:00	0	22.36	31.1	33.2	29.41	26.95	29.92	30.81	30.64	28
8/2/2007 7:00	0	22.24	30.56	32.94	29.45	26.95	29.5	30.42	30.55	28.02
8/2/2007 8:00	0	22.9	30.19	32.67	29.49	26.95	29.2	30.06	30.45	28.06
8/2/2007 9:00	0	23.95	30.19	32.42	29.49	26.95	29.17	29.83	30.35	28.08

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
8/2/2007 10:00	0	25.88	30.7	32.17	29.48	26.98	29.51	29.76	30.24	28.11
8/2/2007 11:00	0	27.23	32.34	31.95	29.48	26.99	30.62	30.06	30.14	28.13
8/2/2007 12:00	0	28.23	34.76	31.79	29.45	26.99	32.38	30.8	30.03	28.12
8/2/2007 13:00	0	28.45	37.37	31.75	29.44	27.03	34.34	31.94	29.99	28.17
8/2/2007 14:00	0	28.59	39.7	31.77	29.42	27.03	36.16	33.21	29.9	28.17
8/2/2007 15:00	0	28.97	41.72	31.98	29.41	27.03	37.74	34.5	29.96	28.16
8/2/2007 16:00	0	28.81	43.15	32.31	29.35	27.03	38.89	35.64	30.03	28.16
8/2/2007 17:00	0	28.5	43.89	32.72	29.33	27.04	39.51	36.55	30.17	28.16
8/2/2007 18:00	0	28.22	43.35	33.16	29.33	27.04	39.13	36.97	30.34	28.16
8/2/2007 19:00	0	27.22	42.55	33.59	29.33	27.08	38.59	37.03	30.53	28.16
8/2/2007 20:00	0	25.31	41.07	33.98	29.34	27.06	37.46	36.7	30.72	28.17
8/2/2007 21:00	0	22.54	39.03	34.27	29.37	27.06	35.87	36.02	30.9	28.16
8/2/2007 22:00	0	20.9	36.91	34.44	29.41	27.07	34.28	35.06	31.05	28.15
8/2/2007 23:00	0	20.46	35.04	34.48	29.48	27.09	32.9	34.04	31.18	28.19
8/3/2007 0:00	0	18.65	33.41	34.41	29.52	27.11	31.66	33.06	31.22	28.21
8/3/2007 0:00	0	18.65	33.41	34.41	29.52	27.11	31.66	33.06	31.22	28.21
8/3/2007 1:00	0	19.11	31.96	34.23	29.6	27.12	30.53	32.12	31.24	28.22
8/3/2007 2:00	0	16.17	30.66	33.95	29.63	27.1	29.48	31.22	31.18	28.26
8/3/2007 3:00	0	16.68	29.48	33.65	29.71	27.11	28.51	30.39	31.11	28.29
8/3/2007 4:00	0	18.23	28.38	33.28	29.72	27.12	27.59	29.59	30.98	28.29
8/3/2007 5:00	0	17.96	27.37	32.89	29.75	27.12	26.75	28.82	30.83	28.29
8/3/2007 6:00	0	16.56	26.45	32.5	29.77	27.15	25.98	28.13	30.67	28.35
8/3/2007 7:00	0	16.32	25.61	32.1	29.78	27.18	25.27	27.46	30.48	28.4
8/3/2007 8:00	0	18.46	25.01	31.7	29.75	27.18	24.83	26.88	30.29	28.4
8/3/2007 9:00	0	20.46	24.81	31.3	29.72	27.18	24.77	26.5	30.07	28.4
8/3/2007 10:00	0	22.46	26.18	30.93	29.68	27.2	25.27	26.35	29.86	28.42
8/3/2007 11:00	0	24.42	28.77	30.58	29.64	27.21	27.02	26.79	29.64	28.41
8/3/2007 12:00	0	26.36	32.09	30.33	29.59	27.22	29.39	27.87	29.46	28.43
8/3/2007 13:00	0	27.11	35.43	30.18	29.52	27.2	31.84	29.36	29.31	28.41
8/3/2007 14:00	0	27.26	38.03	30.22	29.45	27.23	33.79	30.91	29.2	28.4
8/3/2007 15:00	0	27.78	39.97	30.43	29.39	27.25	35.29	32.28	29.18	28.39
8/3/2007 16:00	0	27.67	41.58	30.79	29.33	27.25	36.54	33.52	29.26	28.37
8/3/2007 17:00	0	28.21	41.87	31.24	29.26	27.25	36.89	34.35	29.36	28.32
8/3/2007 18:00	0	27.33	42.22	31.72	29.23	27.23	37.25	34.92	29.51	28.3
8/3/2007 19:00	0	26.03	41.17	32.2	29.18	27.24	36.54	35.14	29.69	28.27
8/3/2007 20:00	0	24.94	39.51	32.64	29.18	27.21	35.42	34.83	29.88	28.26
8/3/2007 21:00	0	23.06	37.84	32.98	29.18	27.23	34.3	34.28	30.06	28.22
8/3/2007 22:00	0	21.79	36.13	33.18	29.2	27.22	33.13	33.58	30.21	28.22
8/3/2007 23:00	0	21.85	34.69	33.25	29.22	27.22	32.17	32.85	30.32	28.21
8/4/2007 0:00	0	21.38	33.51	33.26	29.25	27.23	31.37	32.18	30.38	28.2
8/4/2007 0:00	0	21.38	33.51	33.26	29.25	27.23	31.37	32.18	30.38	28.2
8/4/2007 1:00	0	20.98	32.5	33.17	29.32	27.22	30.66	31.57	30.42	28.2
8/4/2007 2:00	0	20.65	31.54	33.01	29.34	27.21	29.98	30.99	30.39	28.2
8/4/2007 3:00	0	20.33	30.69	32.81	29.4	27.18	29.37	30.46	30.36	28.2
8/4/2007 4:00	0	20.12	29.94	32.57	29.41	27.17	28.81	29.95	30.29	28.22
8/4/2007 5:00	0	20.24	29.3	32.32	29.41	27.18	28.35	29.5	30.21	28.24
8/4/2007 6:00	0	20.06	28.75	32.07	29.45	27.19	27.95	29.11	30.12	28.25
8/4/2007 7:00	0	20.03	28.24	31.8	29.47	27.2	27.58	28.75	30.02	28.26
8/4/2007 8:00	0.1	19.36	27.67	31.52	29.45	27.2	27.17	28.41	29.9	28.26

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
8/4/2007 9:00	0.16	18.52	26.46	31.24	29.44	27.2	26.33	27.94	29.78	28.26
8/4/2007 10:00	0.01	18.89	25.48	30.9	29.44	27.2	25.61	27.36	29.64	28.27
8/4/2007 11:00	0	19.82	25.11	30.53	29.4	27.2	25.28	26.87	29.49	28.27
8/4/2007 12:00	0	21.26	25.57	30.19	29.36	27.23	25.6	26.68	29.35	28.26
8/4/2007 13:00	0	22.93	26.2	29.86	29.33	27.25	26.04	26.73	29.19	28.24
8/4/2007 14:00	0	24.77	27.54	29.61	29.31	27.24	27.05	27	29.05	28.23
8/4/2007 15:00	0	27.15	30.24	29.41	29.25	27.24	29.13	27.84	28.92	28.23
8/4/2007 16:00	0	28.18	32.91	29.31	29.19	27.22	31.15	29.08	28.82	28.2
8/4/2007 17:00	0	28.33	34.92	29.36	29.12	27.24	32.76	30.37	28.73	28.19
8/4/2007 18:00	0	28.26	36.17	29.53	29.06	27.26	33.8	31.47	28.76	28.16
8/4/2007 19:00	0	27.87	36.05	29.82	28.99	27.24	33.82	32.17	28.79	28.14
8/4/2007 20:00	0	26.99	34.96	30.14	28.93	27.2	33.1	32.3	28.9	28.11
8/4/2007 21:00	0	26.14	33.69	30.44	28.89	27.23	32.25	32.03	29.02	28.08
8/4/2007 22:00	0	25.54	32.57	30.65	28.84	27.2	31.46	31.61	29.13	28.06
8/4/2007 23:00	0	25.08	31.69	30.78	28.83	27.22	30.83	31.17	29.24	28.04
8/5/2007 0:00	0	25.1	30.96	30.84	28.83	27.21	30.27	30.74	29.29	28.01
8/5/2007 0:00	0	25.1	30.96	30.84	28.83	27.21	30.27	30.74	29.29	28.01
8/5/2007 1:00	0	25.72	30.4	30.78	28.83	27.18	29.82	30.35	29.34	28
8/5/2007 2:00	0.04	23.81	29.8	30.72	28.83	27.18	29.35	29.99	29.34	27.98
8/5/2007 3:00	0.21	23.06	28.79	30.61	28.82	27.15	28.48	29.52	29.33	27.98
8/5/2007 4:00	0.05	22.78	27.81	30.48	28.84	27.17	27.67	28.96	29.31	27.98
8/5/2007 5:00	0.23	23.15	27	30.3	28.84	27.17	26.98	28.36	29.26	27.97
8/5/2007 6:00	0	23.38	26.52	30.09	28.82	27.16	26.6	27.89	29.19	27.95
8/5/2007 7:00	0	22.85	26.08	29.85	28.8	27.14	26.17	27.5	29.1	27.93
8/5/2007 8:00	0	24.12	25.8	29.61	28.78	27.13	25.95	27.14	28.99	27.93
8/5/2007 9:00	0	25.85	26.14	29.37	28.76	27.12	26.29	27.02	28.87	27.93
8/5/2007 10:00	0	26.96	27.52	29.15	28.74	27.13	27	27.16	28.76	27.93
8/5/2007 11:00	0	27.86	30	28.98	28.7	27.13	28.72	27.74	28.65	27.91
8/5/2007 12:00	0	28.21	32.73	28.88	28.65	27.12	30.72	28.84	28.56	27.93
8/5/2007 13:00	0	28.2	33.9	28.92	28.61	27.11	31.67	29.9	28.48	27.87
8/5/2007 14:00	0	27.99	34.26	29.11	28.57	27.1	32	30.58	28.5	27.88
8/5/2007 15:00	0	27.94	34.5	29.34	28.52	27.06	32.24	30.99	28.52	27.88
8/5/2007 16:00	0	27.46	34.6	29.58	28.48	27.06	32.38	31.27	28.58	27.81
8/5/2007 17:00	0	27.17	34.54	29.82	28.42	27.06	32.44	31.46	28.66	27.81
8/5/2007 18:00	0	27.91	34.53	30.05	28.43	27.05	32.45	31.59	28.76	27.81
8/5/2007 19:00	0	27.97	34.81	30.25	28.43	27.06	32.63	31.72	28.85	27.8
8/5/2007 20:00	0	26.76	34.54	30.43	28.42	27.04	32.41	31.8	28.94	27.75
8/5/2007 21:00	0	24.85	33.57	30.57	28.4	26.99	31.71	31.6	29	27.74
8/5/2007 22:00	0	23.56	32.44	30.69	28.42	26.99	30.92	31.21	29.08	27.72
8/5/2007 23:00	0	22.86	31.39	30.76	28.44	26.99	30.15	30.72	29.13	27.71
8/6/2007 0:00	0	22.33	30.47	30.75	28.45	26.97	29.46	30.2	29.16	27.72
8/6/2007 0:00	0	22.33	30.47	30.75	28.45	26.97	29.46	30.2	29.16	27.72
8/6/2007 1:00	0	21.76	29.67	30.69	28.47	26.96	28.84	29.71	29.18	27.7
8/6/2007 2:00	0	21.46	28.93	30.58	28.47	26.95	28.26	29.23	29.17	27.7
8/6/2007 3:00	0	21.98	28.45	30.42	28.47	26.95	27.9	28.8	29.11	27.7
8/6/2007 4:00	0	22.11	28.2	30.25	28.47	26.95	27.72	28.51	29.07	27.7
8/6/2007 5:00	0	21.99	27.98	30.07	28.47	26.95	27.55	28.29	28.99	27.7
8/6/2007 6:00	0	21.95	27.75	29.89	28.47	26.95	27.37	28.1	28.91	27.7
8/6/2007 7:00	0	21.98	27.53	29.72	28.47	26.94	27.19	27.92	28.83	27.7

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
8/6/2007 8:00	0	22.37	27.4	29.55	28.47	26.93	27.08	27.76	28.75	27.7
8/6/2007 9:00	0	23.21	27.59	29.39	28.47	26.92	27.19	27.69	28.67	27.7
8/6/2007 10:00	0	24.6	28.44	29.25	28.45	26.92	27.72	27.77	28.58	27.69
8/6/2007 11:00	0	25.02	29.18	29.13	28.42	26.92	28.22	28.06	28.5	27.71
8/6/2007 12:00	0	25.71	29.78	29.06	28.39	26.91	28.64	28.33	28.45	27.7
8/6/2007 13:00	0	26.13	30.19	29	28.34	26.89	28.96	28.6	28.38	27.67
8/6/2007 14:00	0	27.97	31.8	29.03	28.32	26.89	30.09	28.99	28.37	27.67
8/6/2007 15:00	0	27.38	33.37	29.06	28.27	26.88	31.18	29.78	28.35	27.66
8/6/2007 16:00	0	27.02	33.04	29.17	28.25	26.86	30.97	30.21	28.35	27.61
8/6/2007 17:00	0	26.97	32.44	29.34	28.22	26.86	30.56	30.23	28.38	27.61
8/6/2007 18:00	0	27.25	32.55	29.5	28.22	26.86	30.56	30.15	28.44	27.61
8/6/2007 19:00	0	26.75	32.62	29.62	28.18	26.85	30.65	30.24	28.47	27.59
8/6/2007 20:00	0	26.37	31.93	29.72	28.15	26.83	30.21	30.15	28.53	27.54
8/6/2007 21:00	0	25.54	31.15	29.8	28.14	26.82	29.67	29.91	28.54	27.53
8/6/2007 22:00	0.01	25.12	30.43	29.86	28.16	26.81	29.16	29.59	28.59	27.55
8/6/2007 23:00	0.05	25.11	29.79	29.86	28.15	26.81	28.74	29.26	28.59	27.52
8/7/2007 0:00	0.01	24.64	29.13	29.81	28.13	26.79	28.3	28.93	28.59	27.52
8/7/2007 0:00	0.01	24.64	29.13	29.81	28.13	26.79	28.3	28.93	28.59	27.52
8/7/2007 1:00	0.02	24.45	28.61	29.73	28.13	26.77	27.96	28.62	28.58	27.49
8/7/2007 2:00	0	23.1	28.19	29.62	28.13	26.77	27.66	28.34	28.54	27.48
8/7/2007 3:00	0	21.63	27.51	29.5	28.14	26.78	27.13	28.05	28.5	27.49
8/7/2007 4:00	0	21.23	26.75	29.36	28.16	26.76	26.52	27.63	28.46	27.47
8/7/2007 5:00	0.01	21.06	26.13	29.19	28.16	26.73	26	27.2	28.38	27.47
8/7/2007 6:00	0	20.88	25.69	29.01	28.11	26.73	25.62	26.81	28.3	27.47
8/7/2007 7:00	0	20.66	25.33	28.81	28.09	26.74	25.31	26.5	28.22	27.46
8/7/2007 8:00	0	22.17	25.15	28.62	28.09	26.74	25.15	26.22	28.13	27.45
8/7/2007 9:00	0	23.98	25.51	28.41	28.08	26.73	25.37	26.1	28.01	27.44
8/7/2007 10:00	0	23.72	25.85	28.23	28.04	26.72	25.66	26.18	27.91	27.43
8/7/2007 11:00	0	24.42	26.34	28.06	27.99	26.71	26.03	26.29	27.81	27.42
8/7/2007 12:00	0	25.95	27.79	27.94	27.97	26.7	27.06	26.65	27.72	27.4
8/7/2007 13:00	0	26.9	30.08	27.85	27.92	26.71	28.67	27.37	27.64	27.38
8/7/2007 14:00	0	28.03	33.81	27.86	27.89	26.69	31.23	28.61	27.59	27.36
8/7/2007 15:00	0	28.85	37.25	27.98	27.85	26.67	33.66	30.26	27.57	27.34
8/7/2007 16:00	0	29.7	39.94	28.27	27.78	26.65	35.6	31.89	27.63	27.32
8/7/2007 17:00	0	28.21	40.63	28.72	27.76	26.64	36.22	33.15	27.73	27.3
8/7/2007 18:00	0	27.56	39.22	29.3	27.72	26.64	35.37	33.57	27.89	27.27
8/7/2007 19:00	0	27.55	38	29.87	27.73	26.61	34.63	33.45	28.11	27.27
8/7/2007 20:00	0	26.4	36.86	30.33	27.71	26.61	33.94	33.2	28.31	27.21
8/7/2007 21:00	0	25.41	35.48	30.67	27.72	26.61	33	32.77	28.51	27.22
8/7/2007 22:00	0	23.58	34.01	30.9	27.73	26.58	31.94	32.2	28.67	27.19
8/7/2007 23:00	0.01	21.08	32.27	31.01	27.78	26.57	30.62	31.44	28.79	27.18
8/8/2007 0:00	0	20.79	30.6	31.04	27.84	26.57	29.41	30.58	28.88	27.18
8/8/2007 0:00	0	20.79	30.6	31.04	27.84	26.57	29.41	30.58	28.88	27.18
8/8/2007 1:00	0	20.59	29.37	30.97	27.87	26.56	28.47	29.76	28.93	27.17
8/8/2007 2:00	0	20.43	28.45	30.8	27.93	26.53	27.76	29.06	28.92	27.18
8/8/2007 3:00	0	20.19	27.72	30.6	27.98	26.53	27.26	28.5	28.89	27.19
8/8/2007 4:00	0	20.07	27.14	30.35	28.03	26.53	26.85	28.03	28.82	27.21
8/8/2007 5:00	0	20.14	26.66	30.09	28.03	26.53	26.49	27.64	28.73	27.24
8/8/2007 6:00	0	20.51	26.29	29.82	28.08	26.53	26.22	27.31	28.63	27.26

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
8/8/2007 7:00	0	20.39	25.93	29.57	28.11	26.53	25.95	27.03	28.52	27.28
8/8/2007 8:00	0	20.73	25.64	29.32	28.11	26.53	25.69	26.76	28.4	27.28
8/8/2007 9:00	0	21.94	25.93	29.07	28.09	26.51	25.81	26.59	28.27	27.26
8/8/2007 10:00	0	22.66	26.58	28.85	28.06	26.51	26.17	26.63	28.16	27.26
8/8/2007 11:00	0	23.35	27.38	28.65	28.03	26.51	26.68	26.8	28.04	27.27
8/8/2007 12:00	0	24.05	28.39	28.51	27.99	26.52	27.35	27.12	27.95	27.26
8/8/2007 13:00	0	24.6	29.47	28.43	27.97	26.51	28.09	27.55	27.86	27.25
8/8/2007 14:00	0	25.36	30.86	28.38	27.92	26.49	29.08	28.09	27.81	27.23
8/8/2007 15:00	0	25.31	32.45	28.43	27.9	26.5	30.25	28.84	27.76	27.23
8/8/2007 16:00	0	24.94	32.68	28.53	27.84	26.49	30.47	29.43	27.76	27.23
8/8/2007 17:00	0	24.71	32.3	28.69	27.82	26.49	30.13	29.62	27.79	27.21
8/8/2007 18:00	0	24.56	31.89	28.86	27.78	26.49	29.88	29.56	27.84	27.18
8/8/2007 19:00	0	24.6	31.85	29.01	27.76	26.49	29.84	29.53	27.89	27.16
8/8/2007 20:00	0.03	23.37	31.4	29.12	27.73	26.48	29.55	29.48	27.93	27.16
8/8/2007 21:00	0	23	30.39	29.22	27.72	26.48	28.79	29.21	27.99	27.14
8/8/2007 22:00	0	22.37	29.55	29.27	27.71	26.47	28.16	28.78	28.02	27.11
8/8/2007 23:00	0	21.42	28.72	29.27	27.71	26.46	27.64	28.38	28.03	27.12
8/9/2007 0:00	0	21.32	28.13	29.23	27.7	26.46	27.25	28.01	28.04	27.1
8/9/2007 0:00	0	21.32	28.13	29.23	27.7	26.46	27.25	28.01	28.04	27.1
8/9/2007 1:00	0	21.42	27.7	29.13	27.7	26.43	26.95	27.69	28	27.1
8/9/2007 2:00	0	21.56	27.35	29.02	27.7	26.43	26.71	27.44	27.96	27.09
8/9/2007 3:00	0	21.36	26.95	28.88	27.7	26.43	26.4	27.2	27.91	27.07
8/9/2007 4:00	0	21.53	26.68	28.74	27.7	26.43	26.19	26.96	27.85	27.06
8/9/2007 5:00	0	21.56	26.47	28.6	27.7	26.42	26.05	26.77	27.78	27.06
8/9/2007 6:00	0	21.49	26.29	28.46	27.69	26.4	25.92	26.63	27.71	27.04
8/9/2007 7:00	0	20.77	25.98	28.31	27.66	26.4	25.68	26.47	27.63	27.02
8/9/2007 8:00	0	21.48	25.61	28.17	27.62	26.39	25.43	26.26	27.56	27.02
8/9/2007 9:00	0	22.49	25.61	28.04	27.62	26.39	25.4	26.12	27.49	27.02
8/9/2007 10:00	0	23.28	26.68	27.9	27.6	26.38	25.67	26.07	27.42	27.02
8/9/2007 11:00	0	24.91	28.55	27.78	27.56	26.36	26.93	26.4	27.34	27.02
8/9/2007 12:00	0	26.71	31.48	27.71	27.52	26.38	29.03	27.31	27.28	27
8/9/2007 13:00	0	28.26	34.77	27.76	27.51	26.39	31.37	28.67	27.21	26.98
8/9/2007 14:00	0	29.06	37.81	27.91	27.49	26.37	33.58	30.22	27.22	26.96
8/9/2007 15:00	0	29.53	40.27	28.25	27.45	26.37	35.45	31.77	27.28	26.95
8/9/2007 16:00	0	30.27	42.11	28.73	27.4	26.36	36.88	33.15	27.41	26.92
8/9/2007 17:00	0	30.18	43.2	29.32	27.38	26.34	37.81	34.28	27.58	26.89
8/9/2007 18:00	0	30.14	43.34	29.97	27.38	26.34	38.09	35.07	27.81	26.89
8/9/2007 19:00	0	29.74	42.7	30.59	27.4	26.31	37.74	35.4	28.05	26.84
8/9/2007 20:00	0	28.24	41.34	31.18	27.44	26.29	36.82	35.35	28.32	26.84
8/9/2007 21:00	0	24.84	39.35	31.66	27.47	26.28	35.38	34.84	28.57	26.82
8/9/2007 22:00	0	23.21	37.24	32.03	27.51	26.26	33.92	34.04	28.81	26.83
8/9/2007 23:00	0	21.75	35.41	32.25	27.58	26.26	32.65	33.16	29	26.82
8/10/2007 0:00	0	21.5	33.84	32.31	27.66	26.26	31.53	32.29	29.13	26.82
8/10/2007 0:00	0	21.5	33.84	32.31	27.66	26.26	31.53	32.29	29.13	26.82
8/10/2007 1:00	0	21.43	32.5	32.29	27.75	26.25	30.54	31.49	29.23	26.85
8/10/2007 2:00	0	21.55	31.37	32.16	27.83	26.23	29.7	30.74	29.25	26.88
8/10/2007 3:00	0	22.61	30.53	31.99	27.92	26.23	29.08	30.1	29.27	26.89
8/10/2007 4:00	0	22.32	29.92	31.77	28	26.23	28.65	29.59	29.22	26.95
8/10/2007 5:00	0	21.42	29.37	31.51	28.05	26.22	28.25	29.16	29.13	26.95

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
8/10/2007 6:00	0	20.98	28.8	31.25	28.08	26.22	27.8	28.77	29.05	26.97
8/10/2007 7:00	0	20.48	28.23	31.01	28.17	26.24	27.35	28.39	28.97	27.01
8/10/2007 8:00	0	21.41	27.8	30.76	28.18	26.27	27.02	28.02	28.87	27.05
8/10/2007 9:00	0	23.95	27.68	30.49	28.19	26.28	26.9	27.76	28.76	27.06
8/10/2007 10:00	0	26.61	28.92	30.25	28.21	26.28	27.06	27.61	28.65	27.09
8/10/2007 11:00	0	28.42	31.51	30.04	28.19	26.31	28.71	27.95	28.55	27.12
8/10/2007 12:00	0	29.3	34.56	29.9	28.17	26.29	30.98	28.99	28.44	27.11
8/10/2007 13:00	0	29.84	37.59	29.89	28.15	26.29	33.27	30.4	28.37	27.13
8/10/2007 14:00	0	30.56	40.34	30.04	28.14	26.31	35.38	31.93	28.34	27.13
8/10/2007 15:00	0	30.94	42.41	30.36	28.14	26.34	37.05	33.41	28.38	27.15
8/10/2007 16:00	0	31.2	43.77	30.82	28.13	26.34	38.27	34.65	28.49	27.15
8/10/2007 17:00	0	31.13	44.37	31.36	28.14	26.34	38.92	35.66	28.67	27.15
8/10/2007 18:00	0	31.48	44.58	31.93	28.12	26.34	39.14	36.26	28.88	27.13
8/10/2007 19:00	0	29.69	43.75	32.47	28.11	26.34	38.62	36.54	29.1	27.13
8/10/2007 20:00	0	28.5	41.95	32.98	28.16	26.36	37.45	36.3	29.34	27.11
8/10/2007 21:00	0	26.75	39.98	33.38	28.19	26.36	36.17	35.73	29.59	27.12
8/10/2007 22:00	0	25.44	37.99	33.64	28.28	26.34	34.82	34.95	29.78	27.15
8/10/2007 23:00	0	24.7	36.31	33.77	28.35	26.35	33.64	34.11	29.94	27.17
8/11/2007 0:00	0	23.84	34.92	33.78	28.43	26.37	32.67	33.32	30.06	27.18
8/11/2007 0:00	0	23.84	34.92	33.78	28.43	26.37	32.67	33.32	30.06	27.18
8/11/2007 1:00	0	23.48	33.7	33.67	28.51	26.37	31.8	32.58	30.11	27.19
8/11/2007 2:00	0	23.21	32.69	33.5	28.59	26.38	31.05	31.91	30.14	27.23
8/11/2007 3:00	0	22.9	31.84	33.3	28.68	26.39	30.41	31.32	30.12	27.27
8/11/2007 4:00	0	22.68	31.11	33.05	28.75	26.41	29.85	30.8	30.08	27.31
8/11/2007 5:00	0	22.25	30.46	32.78	28.79	26.43	29.32	30.31	30.02	27.33
8/11/2007 6:00	0	22.06	29.9	32.5	28.85	26.43	28.86	29.86	29.92	27.37
8/11/2007 7:00	0	22	29.36	32.2	28.86	26.43	28.43	29.45	29.82	27.4
8/11/2007 8:00	0	22.83	28.99	31.92	28.88	26.45	28.13	29.09	29.72	27.43
8/11/2007 9:00	0	24.33	29.02	31.65	28.92	26.49	28.09	28.85	29.61	27.46
8/11/2007 10:00	0	26.16	30.11	31.39	28.91	26.5	28.44	28.77	29.5	27.49
8/11/2007 11:00	0	27.99	32.24	31.17	28.91	26.52	29.87	29.12	29.38	27.52
8/11/2007 12:00	0	29.47	34.81	31.02	28.89	26.54	31.87	30.05	29.28	27.51
8/11/2007 13:00	0	30.95	37.56	31	28.87	26.54	33.99	31.31	29.19	27.55
8/11/2007 14:00	0	31.57	40.18	31.13	28.86	26.58	36.03	32.76	29.17	27.55
8/11/2007 15:00	0	32.1	41.49	31.39	28.84	26.57	37.08	34.04	29.2	27.54
8/11/2007 16:00	0	32.35	42.68	31.77	28.8	26.57	38.1	34.97	29.3	27.55
8/11/2007 17:00	0	32.73	43.94	32.23	28.79	26.62	39.15	35.93	29.45	27.57
8/11/2007 18:00	0	32.84	44.39	32.69	28.8	26.61	39.56	36.67	29.62	27.57
8/11/2007 19:00	0	32.11	44.09	33.18	28.8	26.62	39.37	37.07	29.84	27.57
8/11/2007 20:00	0	30.25	42.96	33.63	28.8	26.62	38.59	37.06	30.05	27.57
8/11/2007 21:00	0	27.32	41.28	34.01	28.83	26.63	37.35	36.64	30.26	27.56
8/11/2007 22:00	0	25.5	39.51	34.29	28.88	26.63	36.13	35.98	30.45	27.57
8/11/2007 23:00	0	24.55	37.96	34.46	28.95	26.63	35.06	35.24	30.63	27.6
8/12/2007 0:00	0	24.2	36.65	34.49	29.01	26.64	34.13	34.52	30.73	27.61
8/12/2007 0:00	0	24.2	36.65	34.49	29.01	26.64	34.13	34.52	30.73	27.61
8/12/2007 1:00	0	25.37	35.62	34.46	29.1	26.66	33.4	33.87	30.81	27.63
8/12/2007 2:00	0	25.43	34.86	34.34	29.17	26.66	32.88	33.33	30.87	27.68
8/12/2007 3:00	0	24.93	34.05	34.17	29.23	26.68	32.26	32.84	30.85	27.71
8/12/2007 4:00	0	24.74	33.19	33.97	29.28	26.7	31.58	32.32	30.81	27.72

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
8/12/2007 5:00	0	23.86	32.36	33.76	29.34	26.71	30.93	31.8	30.78	27.77
8/12/2007 6:00	0	23.11	31.56	33.53	29.41	26.73	30.29	31.29	30.73	27.81
8/12/2007 7:00	0	22.43	30.75	33.27	29.41	26.73	29.63	30.75	30.64	27.84
8/12/2007 8:00	0	22.97	30.11	32.99	29.44	26.75	29.15	30.24	30.54	27.86
8/12/2007 9:00	0	23.94	29.78	32.71	29.46	26.79	28.9	29.88	30.44	27.9
8/12/2007 10:00	0	25.12	30.69	32.43	29.47	26.8	28.94	29.62	30.33	27.93
8/12/2007 11:00	0	26.37	32.82	32.17	29.47	26.82	30.32	29.8	30.21	27.97
8/12/2007 12:00	0	27.27	35.36	31.97	29.44	26.84	32.3	30.65	30.09	27.96
8/12/2007 13:00	0	28.29	38.1	31.91	29.44	26.86	34.41	31.88	30	28
8/12/2007 14:00	0	29.18	40.69	31.96	29.41	26.88	36.4	33.26	29.96	28.01
8/12/2007 15:00	0	30.09	42.95	32.19	29.34	26.88	38.14	34.66	29.97	28.01
8/12/2007 16:00	0	30.6	44.6	32.55	29.32	26.89	39.42	35.93	30.03	28.02
8/12/2007 17:00	0	29.76	45.15	32.99	29.31	26.93	39.9	36.88	30.16	28.04
8/12/2007 18:00	0	28.37	43.95	33.48	29.32	26.93	39.09	37.21	30.32	28.01
8/12/2007 19:00	0	27.22	42.05	33.96	29.35	26.9	37.8	36.9	30.53	28.03
8/12/2007 20:00	0	25.88	40.2	34.34	29.35	26.92	36.55	36.27	30.73	28.05
8/12/2007 21:00	0.01	24.75	38.44	34.56	29.39	26.93	35.33	35.55	30.9	28.05
8/12/2007 22:00	0	24.53	36.58	34.67	29.42	26.95	33.88	34.67	31.03	28.05
8/12/2007 23:00	0	23.83	35.29	34.63	29.47	26.96	32.91	33.78	31.12	28.05
8/13/2007 0:00	0	23.36	34.21	34.51	29.54	26.96	32.16	33.06	31.14	28.08
8/13/2007 0:00	0	23.36	34.21	34.51	29.54	26.96	32.16	33.06	31.14	28.08
8/13/2007 1:00	0	22.76	33.25	34.33	29.6	26.99	31.47	32.44	31.16	28.12
8/13/2007 2:00	0	22.37	32.33	34.1	29.65	27.02	30.77	31.85	31.11	28.15
8/13/2007 3:00	0	22.02	31.44	33.83	29.71	27.02	30.08	31.26	31.04	28.16
8/13/2007 4:00	0.03	21.73	30.66	33.54	29.73	27.02	29.46	30.7	30.95	28.18
8/13/2007 5:00	0	21.25	30.04	33.24	29.73	27.02	28.98	30.21	30.83	28.2
8/13/2007 6:00	0	21.03	29.48	32.94	29.74	27.03	28.53	29.77	30.72	28.24
8/13/2007 7:00	0.02	21.19	29.09	32.64	29.76	27.05	28.24	29.4	30.6	28.25
8/13/2007 8:00	0.07	21.8	28.96	32.33	29.75	27.09	28.12	29.12	30.45	28.27
8/13/2007 9:00	0	22.66	28.85	32.05	29.75	27.1	28.1	28.97	30.32	28.31
8/13/2007 10:00	0	23.57	28.77	31.79	29.73	27.11	28.03	28.83	30.19	28.31
8/13/2007 11:00	0	25.17	29.61	31.53	29.71	27.13	28.64	28.85	30.05	28.33
8/13/2007 12:00	0	27.63	31.72	31.33	29.68	27.15	30.2	29.33	29.93	28.32
8/13/2007 13:00	0	29.04	34.88	31.18	29.61	27.15	32.53	30.43	29.83	28.35
8/13/2007 14:00	0	30.33	38.01	31.15	29.59	27.19	34.83	31.88	29.75	28.33
8/13/2007 15:00	0	31.2	40.63	31.28	29.56	27.18	36.77	33.41	29.73	28.32
8/13/2007 16:00	0	31.41	42.39	31.57	29.48	27.17	38.13	34.75	29.78	28.3
8/13/2007 17:00	0	31.23	43.44	31.99	29.46	27.21	39	35.83	29.89	28.3
8/13/2007 18:00	0	30.94	43.59	32.48	29.45	27.22	39.19	36.54	30.05	28.29
8/13/2007 19:00	0	30.28	43.05	32.96	29.39	27.2	38.83	36.82	30.23	28.27
8/13/2007 20:00	0	28.78	41.73	33.43	29.38	27.22	37.97	36.75	30.44	28.28
8/13/2007 21:00	0	26.81	39.84	33.8	29.41	27.19	36.65	36.26	30.64	28.25
8/13/2007 22:00	0	25.56	38	34.06	29.42	27.21	35.36	35.53	30.82	28.27
8/13/2007 23:00	0	25.13	36.37	34.19	29.47	27.21	34.21	34.73	30.97	28.24
8/14/2007 0:00	0	24.75	35.01	34.22	29.51	27.22	33.24	33.97	31.07	28.25
8/14/2007 0:00	0	24.75	35.01	34.22	29.51	27.22	33.24	33.97	31.07	28.25
8/14/2007 1:00	0	24.56	33.86	34.13	29.56	27.22	32.39	33.24	31.13	28.27
8/14/2007 2:00	0	24.22	32.95	33.96	29.61	27.22	31.68	32.59	31.13	28.28
8/14/2007 3:00	0	24.51	32.2	33.75	29.66	27.23	31.09	32.03	31.11	28.31

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
8/14/2007 4:00	0	24.41	31.54	33.53	29.71	27.23	30.56	31.53	31.05	28.34
8/14/2007 5:00	0	24.38	31.01	33.27	29.74	27.23	30.14	31.09	30.99	28.35
8/14/2007 6:00	0	24.06	30.51	33.01	29.76	27.24	29.73	30.7	30.89	28.38
8/14/2007 7:00	0	23.51	29.96	32.76	29.81	27.25	29.26	30.32	30.8	28.41
8/14/2007 8:00	0	24.34	29.56	32.5	29.81	27.25	28.95	29.95	30.7	28.43
8/14/2007 9:00	0	26.27	29.62	32.23	29.79	27.27	28.95	29.71	30.58	28.45
8/14/2007 10:00	0	27.55	30.76	31.99	29.79	27.29	29.32	29.67	30.46	28.46
8/14/2007 11:00	0	28.7	32.74	31.77	29.77	27.28	30.56	30	30.35	28.48
8/14/2007 12:00	0	28.9	34.95	31.65	29.76	27.3	32.22	30.78	30.25	28.49
8/14/2007 13:00	0	29.2	37.13	31.63	29.68	27.33	33.88	31.82	30.15	28.47
8/14/2007 14:00	0	29.78	38.63	31.69	29.65	27.33	35.08	32.85	30.14	28.47
8/14/2007 15:00	0	29.81	40.1	31.9	29.64	27.33	36.26	33.8	30.14	28.47
8/14/2007 16:00	0	29.731	41.02	32.17	29.57	27.32	36.98	34.62	30.2	28.46
8/14/2007 17:00	0	29.474	40.9	32.48	29.56	27.32	36.89	35.16	30.29	28.47
8/14/2007 18:00	0	28.208	39.41	32.83	29.52	27.35	35.86	35.09	30.41	28.46
8/14/2007 19:00	0	27.197	37.94	33.14	29.54	27.34	34.85	34.65	30.55	28.44
8/14/2007 20:00	0	26.228	36.67	33.34	29.55	27.34	34.05	34.13	30.67	28.45
8/14/2007 21:00	0	25.313	34.56	33.45	29.56	27.34	32.67	33.48	30.76	28.46
8/14/2007 22:00	0	25.118	32.68	33.44	29.58	27.33	31.34	32.57	30.81	28.45
8/14/2007 23:00	0	24.204	31.43	33.33	29.6	27.35	30.43	31.74	30.86	28.46
8/15/2007 0:00	0	23.941	30.54	33.14	29.65	27.36	29.73	31.05	30.83	28.47
8/15/2007 0:00	0	23.941	30.54	33.14	29.65	27.36	29.73	31.05	30.83	28.47
8/15/2007 1:00	0	23.556	29.8	32.87	29.65	27.36	29.15	30.46	30.77	28.47
8/15/2007 2:00	0	23.447	29.22	32.57	29.67	27.36	28.67	29.96	30.69	28.48
8/15/2007 3:00	0	23.543	28.54	32.27	29.69	27.36	28.21	29.5	30.58	28.5
8/15/2007 4:00	0	23.211	27.96	31.96	29.69	27.36	27.86	29.11	30.46	28.51
8/15/2007 5:00	0	23.066	27.54	31.66	29.68	27.36	27.59	28.78	30.33	28.51
8/15/2007 6:00	0	22.86	27.29	31.36	29.65	27.38	27.42	28.52	30.2	28.51
8/15/2007 7:00	0	21.804	27.16	31.07	29.65	27.4	27.33	28.33	30.06	28.52
8/15/2007 8:00	0	22.139	27.12	30.8	29.61	27.4	27.33	28.2	29.93	28.53
8/15/2007 9:00	0	22.934	27.17	30.55	29.57	27.4	27.34	28.13	29.8	28.53
8/15/2007 10:00	0	24.006	27.31	30.31	29.52	27.4	27.34	28.06	29.68	28.51
8/15/2007 11:00	0	25.17	27.78	30.12	29.47	27.39	27.66	28.09	29.57	28.5
8/15/2007 12:00	0	26.829	28.25	29.94	29.4	27.38	27.97	28.21	29.45	28.49
8/15/2007 13:00	0	27.934	28.56	29.79	29.34	27.38	28.25	28.39	29.35	28.48
8/15/2007 14:00	0	28.324	29.79	29.7	29.29	27.4	29.23	28.71	29.27	28.47
8/15/2007 15:00	0	28.488	32.26	29.63	29.23	27.39	31.07	29.49	29.23	28.45
8/15/2007 16:00	0	28.862	34.29	29.66	29.19	27.41	32.49	30.58	29.2	28.42
8/15/2007 17:00	0	28.658	35.45	29.77	29.12	27.42	33.29	31.45	29.19	28.41
8/15/2007 18:00	0	28.194	36.14	29.97	29.07	27.4	33.79	32.11	29.19	28.4
8/15/2007 19:00	0	27.448	36	30.24	29.03	27.37	33.73	32.5	29.27	28.35
8/15/2007 20:00	0	26.504	35.3	30.53	28.98	27.36	33.22	32.57	29.37	28.35
8/15/2007 21:00	0	25.129	34.05	30.76	28.94	27.36	32.31	32.28	29.46	28.3
8/15/2007 22:00	0	24.416	32.74	30.95	28.93	27.34	31.36	31.78	29.56	28.29
8/15/2007 23:00	0	23.594	31.6	31.05	28.91	27.33	30.52	31.21	29.63	28.25
8/16/2007 0:00	0	23.105	30.71	31.07	28.92	27.32	29.86	30.66	29.67	28.26
8/16/2007 0:00	0	23.105	30.71	31.07	28.92	27.32	29.86	30.66	29.67	28.26
8/16/2007 1:00	0	22.631	29.91	31.02	28.93	27.32	29.25	30.16	29.69	28.24
8/16/2007 2:00	0	22.511	29.14	30.91	28.93	27.31	28.64	29.67	29.67	28.23

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
8/16/2007 3:00	0	21.72	28.43	30.75	28.93	27.29	28.07	29.19	29.63	28.21
8/16/2007 4:00	0	21.532	27.85	30.58	28.94	27.29	27.6	28.75	29.57	28.21
8/16/2007 5:00	0	21.246	27.35	30.4	28.94	27.27	27.19	28.37	29.51	28.22
8/16/2007 6:00	0	21.426	26.94	30.19	28.93	27.28	26.86	28.01	29.42	28.23
8/16/2007 7:00	0	21.469	26.56	29.98	28.9	27.28	26.54	27.7	29.32	28.22
8/16/2007 8:00	0	21.557	26.26	29.76	28.89	27.27	26.27	27.41	29.21	28.19
8/16/2007 9:00	0	21.797	26.08	29.56	28.88	27.28	26.11	27.19	29.09	28.19
8/16/2007 10:00	0	22.212	25.67	29.35	28.83	27.28	25.79	26.95	28.98	28.19
8/16/2007 11:00	0	22.228	25.68	29.12	28.81	27.27	25.73	26.74	28.85	28.19
8/16/2007 12:00	0	22.604	26.24	28.89	28.76	27.25	26.07	26.7	28.73	28.16
8/16/2007 13:00	0	24.359	26.77	28.71	28.7	27.24	26.56	26.87	28.62	28.15
8/16/2007 14:00	0	25.348	28.16	28.56	28.66	27.23	27.6	27.2	28.52	28.13
8/16/2007 15:00	0	25.872	31.55	28.47	28.61	27.21	29.99	28.19	28.45	28.1
8/16/2007 16:00	0	26.517	33.45	28.48	28.56	27.22	31.32	29.43	28.36	28.06
8/16/2007 17:00	0	27.012	34.71	28.63	28.5	27.21	32.15	30.31	28.35	28.04
8/16/2007 18:00	0	26.764	35.47	28.87	28.46	27.2	32.65	31.03	28.41	28.03
8/16/2007 19:00	0	25.751	35.3	29.17	28.4	27.18	32.52	31.4	28.46	28.01
8/16/2007 20:00	0	23.979	34.28	29.49	28.37	27.13	31.8	31.39	28.56	27.96
8/16/2007 21:00	0	21.64	32.76	29.77	28.33	27.13	30.71	31	28.66	27.93
8/16/2007 22:00	0	20.452	31.21	29.98	28.31	27.11	29.61	30.38	28.76	27.91
8/16/2007 23:00	0	19.871	29.83	30.06	28.31	27.1	28.61	29.7	28.83	27.89
8/17/2007 0:00	0	19.19	28.62	30.08	28.34	27.11	27.71	29.01	28.88	27.88
8/17/2007 0:00	0	19.19	28.62	30.08	28.34	27.11	27.71	29.01	28.88	27.88
8/17/2007 1:00	0	18.467	27.53	29.99	28.34	27.05	26.87	28.33	28.87	27.88
8/17/2007 2:00	0	18.017	26.54	29.84	28.35	27.06	26.08	27.68	28.82	27.83
8/17/2007 3:00	0	17.849	25.64	29.64	28.36	27.07	25.36	27.06	28.77	27.82
8/17/2007 4:00	0	17.945	24.85	29.42	28.37	27.05	24.72	26.49	28.66	27.83
8/17/2007 5:00	0	17.598	24.11	29.15	28.37	27.01	24.12	25.94	28.55	27.83
8/17/2007 6:00	0	17.066	23.41	28.87	28.31	27.01	23.53	25.42	28.41	27.8
8/17/2007 7:00	0	16.526	22.74	28.59	28.31	27.02	22.98	24.93	28.27	27.77
8/17/2007 8:00	0	17.688	22.29	28.29	28.31	27.02	22.59	24.47	28.12	27.77
8/17/2007 9:00	0	19.523	22.32	28	28.25	27.01	22.54	24.16	27.95	27.76
8/17/2007 10:00	0	21.359	23.3	27.72	28.2	26.98	22.84	24.05	27.79	27.75
8/17/2007 11:00	0	22.72	25.47	27.47	28.16	26.97	24.13	24.32	27.62	27.74
8/17/2007 12:00	0	23.587	28.21	27.29	28.12	26.96	26.15	25.19	27.47	27.71
8/17/2007 13:00	0	24.213	31.02	27.22	28.06	26.93	28.27	26.43	27.34	27.68
8/17/2007 14:00	0	24.846	33.69	27.28	27.99	26.92	30.29	27.85	27.27	27.67
8/17/2007 15:00	0	25.249	35.97	27.47	27.94	26.91	32.04	29.25	27.24	27.6
8/17/2007 16:00	0	25.43	37.57	27.81	27.89	26.91	33.32	30.53	27.31	27.58
8/17/2007 17:00	0	25.408	37.68	28.24	27.83	26.91	33.58	31.42	27.41	27.56
8/17/2007 18:00	0	24.857	37.04	28.72	27.8	26.89	33.26	31.75	27.55	27.51
8/17/2007 19:00	0	23.736	35.98	29.18	27.75	26.85	32.6	31.76	27.72	27.47
8/17/2007 20:00	0	22.351	34.47	29.58	27.75	26.85	31.58	31.42	27.9	27.44
8/17/2007 21:00	0	21.253	32.94	29.87	27.75	26.82	30.56	30.87	28.06	27.41
8/17/2007 22:00	0	20.571	31.58	30.06	27.77	26.81	29.64	30.27	28.19	27.39
8/17/2007 23:00	0	19.916	29.68	30.14	27.78	26.81	28.32	29.53	28.28	27.36
8/18/2007 0:00	0	19.853	27.92	30.11	27.81	26.78	27.09	28.66	28.34	27.35
8/18/2007 0:00	0	19.853	27.92	30.11	27.81	26.78	27.09	28.66	28.34	27.35
8/18/2007 1:00	0	19.387	26.42	29.98	27.87	26.76	26.02	27.79	28.34	27.35

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
8/18/2007 2:00	0	18.891	25.42	29.75	27.89	26.76	25.2	27.01	28.3	27.34
8/18/2007 3:00	0	18.623	24.52	29.47	27.89	26.76	24.7	26.37	28.23	27.32
8/18/2007 4:00	0	18.411	23.82	29.15	27.93	26.72	24.39	25.91	28.13	27.32
8/18/2007 5:00	0	17.988	23.4	28.83	27.97	26.7	24.13	25.56	28.01	27.3
8/18/2007 6:00	0	17.708	21.89	28.34	27.98	26.7	23.52	25.21	27.88	27.3
8/18/2007 7:00	0	17.508	21.13	27.81	27.99	26.71	22.73	24.65	27.74	27.3
8/18/2007 8:00	0	17.944	20.81	27.43	27.98	26.71	22.25	24.14	27.59	27.3
8/18/2007 9:00	0	18.684	20.75	27.1	27.91	26.71	22.1	23.77	27.44	27.3
8/18/2007 10:00	0	19.966	21.43	26.79	27.89	26.7	22.52	23.63	27.28	27.29
8/18/2007 11:00	0	21.314	22.83	26.52	27.8	26.68	23.52	23.91	27.12	27.27
8/18/2007 12:00	0	23.289	25.21	26.3	27.74	26.68	25.27	24.57	26.97	27.25
8/18/2007 13:00	0	24.693	28.28	26.19	27.67	26.66	27.5	25.76	26.85	27.25
8/18/2007 14:00	0	25.921	31.24	26.19	27.6	26.65	29.64	27.18	26.78	27.21
8/18/2007 15:00	0	27.007	33.88	26.36	27.53	26.64	31.61	28.68	26.77	27.17
8/18/2007 16:00	0	27.599	35.85	26.66	27.45	26.65	33.13	30.07	26.79	27.13
8/18/2007 17:00	0	27.761	37.06	27.11	27.42	26.67	34.13	31.23	26.9	27.13
8/18/2007 18:00	0	27.906	37.48	27.62	27.33	26.63	34.52	32.04	27.05	27.1
8/18/2007 19:00	0	26.901	37.12	28.16	27.31	26.59	34.29	32.45	27.24	27.05
8/18/2007 20:00	0	26.267	35.96	28.67	27.28	26.61	33.5	32.44	27.45	27.02
8/18/2007 21:00	0	25.364	34.69	29.11	27.29	26.57	32.64	32.12	27.66	27
8/18/2007 22:00	0	24.547	33.48	29.44	27.27	26.56	31.8	31.66	27.84	26.95
8/18/2007 23:00	0	24.408	32.37	29.67	27.32	26.54	31	31.16	28.01	26.95
8/19/2007 0:00	0	23.988	31.34	29.79	27.34	26.52	30.22	30.61	28.13	26.95
8/19/2007 0:00	0	23.988	31.34	29.79	27.34	26.52	30.22	30.61	28.13	26.95
8/19/2007 1:00	0	23.98	30.43	29.84	27.37	26.5	29.52	30.07	28.2	26.92
8/19/2007 2:00	0	23.55	29.64	29.81	27.43	26.5	28.9	29.57	28.26	26.94
8/19/2007 3:00	0	23.2	28.95	29.75	27.47	26.49	28.35	29.1	28.28	26.95
8/19/2007 4:00	0	23.19	28.44	29.64	27.53	26.47	27.95	28.68	28.27	26.95
8/19/2007 5:00	0	22.97	27.95	29.5	27.55	26.45	27.55	28.33	28.25	26.95
8/19/2007 6:00	0	22.68	27.4	29.34	27.58	26.43	27.09	27.97	28.2	26.95
8/19/2007 7:00	0	22.47	26.97	29.17	27.6	26.43	26.73	27.61	28.15	26.95
8/19/2007 8:00	0	22.84	26.81	29	27.62	26.43	26.58	27.35	28.07	26.98
8/19/2007 9:00	0	23.72	27.06	28.83	27.62	26.43	26.7	27.22	28.01	26.99
8/19/2007 10:00	0	24.88	27.69	28.67	27.63	26.42	27.1	27.26	27.93	26.98
8/19/2007 11:00	0	25.71	28.89	28.54	27.63	26.41	27.9	27.53	27.86	27
8/19/2007 12:00	0	27.42	31.05	28.45	27.61	26.42	29.35	28.14	27.78	27.01
8/19/2007 13:00	0	28.65	33.32	28.44	27.59	26.4	30.94	29.06	27.74	26.99
8/19/2007 14:00	0	29.12	36.04	28.56	27.58	26.39	32.97	30.24	27.73	26.99
8/19/2007 15:00	0.06	28.68	38.19	28.76	27.57	26.38	34.58	31.58	27.76	26.99
8/19/2007 16:00	0.01	27.61	38.45	29.13	27.57	26.38	34.87	32.53	27.83	26.97
8/19/2007 17:00	0.02	26.83	37.23	29.55	27.57	26.39	33.95	32.76	27.96	26.98
8/19/2007 18:00	0	28.61	36.13	29.96	27.56	26.4	33.09	32.44	28.12	26.99
8/19/2007 19:00	0	28.16	36.49	30.29	27.57	26.38	33.43	32.38	28.29	26.97
8/19/2007 20:00	0	27.53	35.68	30.53	27.58	26.39	32.95	32.32	28.42	26.98
8/19/2007 21:00	0	24.11	34.48	30.73	27.6	26.38	32.2	32.02	28.54	26.97
8/19/2007 22:00	0.2	21.57	30.92	31.14	27.69	26.36	30.54	31.41	28.63	26.95
8/19/2007 23:00	0.58	21.39	28.49	31.53	27.88	26.36	28.99	30.38	28.72	26.98
8/20/2007 0:00	0.48	21.57	27.67	31.37	27.97	26.36	28.12	29.5	28.77	26.99
8/20/2007 0:00	0.48	21.57	27.67	31.37	27.97	26.36	28.12	29.5	28.77	26.99

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
8/20/2007 1:00	0.491	22.18	27.03	31.07	28.07	26.36	27.44	28.79	28.76	26.99
8/20/2007 2:00	0.01	21.4	26.57	30.74	28.15	26.38	26.97	28.25	28.72	27.03
8/20/2007 3:00	0	21.08	26.09	30.4	28.19	26.38	26.44	27.76	28.65	27.05
8/20/2007 4:00	0	21.251	25.75	30.06	28.23	26.39	26.03	27.32	28.55	27.05
8/20/2007 5:00	0	21.043	25.48	29.75	28.26	26.42	25.71	26.95	28.45	27.05
8/20/2007 6:00	0	20.88	25.15	29.44	28.24	26.44	25.34	26.62	28.32	27.08
8/20/2007 7:00	0	20.853	24.81	29.16	28.2	26.46	24.97	26.27	28.2	27.09
8/20/2007 8:00	0	21.279	24.74	28.88	28.19	26.46	24.87	26	28.07	27.11
8/20/2007 9:00	0	22.028	25.1	28.63	28.18	26.46	25.07	25.88	27.94	27.12
8/20/2007 10:00	0	22.713	26.1	28.39	28.12	26.48	25.47	25.96	27.82	27.11
8/20/2007 11:00	0	23.295	27.7	28.2	28.07	26.49	26.42	26.27	27.7	27.1
8/20/2007 12:00	0	23.425	28.15	28.08	28.01	26.51	26.9	26.72	27.59	27.1
8/20/2007 13:00	0	23.368	28.16	28.02	27.96	26.5	27.01	26.96	27.51	27.1
8/20/2007 14:00	0	24.946	28.48	28.01	27.91	26.51	27.39	27.16	27.46	27.07
8/20/2007 15:00	0	26.377	30.42	28.03	27.85	26.5	28.78	27.62	27.41	27.08
8/20/2007 16:00	0	27.176	32.95	28.08	27.83	26.49	30.72	28.67	27.38	27.08
8/20/2007 17:00	0	27.569	34.78	28.21	27.79	26.52	32.07	29.78	27.42	27.06
8/20/2007 18:00	0	27.677	35.71	28.45	27.72	26.52	32.79	30.7	27.45	27.04
8/20/2007 19:00	0	26.564	35.59	28.76	27.71	26.51	32.77	31.22	27.53	26.99
8/20/2007 20:00	0	25.297	34.8	29.11	27.66	26.5	32.3	31.37	27.66	26.97
8/20/2007 21:00	0	23.682	33.43	29.42	27.65	26.48	31.38	31.13	27.78	26.94
8/20/2007 22:00	0	23.433	32.15	29.67	27.64	26.48	30.52	30.67	27.91	26.94
8/20/2007 23:00	0	22.301	30.2	29.94	27.69	26.48	29.77	30.18	28.02	26.93
8/21/2007 0:00	0	21.919	27.72	30.29	27.79	26.46	28.55	29.54	28.09	26.92
8/21/2007 0:00	0	21.919	27.72	30.29	27.79	26.46	28.55	29.54	28.09	26.92
8/21/2007 1:00	0.015	21.037	27.01	30.2	27.78	26.45	27.6	28.8	28.15	26.91
8/21/2007 2:00	0	20.828	26.39	29.98	27.79	26.44	26.88	28.14	28.17	26.91
8/21/2007 3:00	0	20.915	25.96	29.73	27.81	26.46	26.37	27.6	28.14	26.9
8/21/2007 4:00	0.061	20.917	25.53	29.45	27.86	26.46	25.87	27.13	28.08	26.9
8/21/2007 5:00	0	20.436	25.06	29.16	27.88	26.46	25.41	26.69	28	26.9
8/21/2007 6:00	0	20.361	24.66	28.87	27.86	26.46	24.96	26.28	27.91	26.9
8/21/2007 7:00	0	20.48	24.41	28.6	27.83	26.46	24.64	25.93	27.81	26.91
8/21/2007 8:00	0	21.066	24.04	28.33	27.8	26.46	24.26	25.59	27.69	26.9
8/21/2007 9:00	0	23.02	24.05	28.08	27.8	26.45	24.06	25.3	27.58	26.92
8/21/2007 10:00	0	24.706	25.02	27.84	27.77	26.45	24.22	25.13	27.45	26.93
8/21/2007 11:00	0	26.263	27.28	27.64	27.77	26.44	25.59	25.37	27.33	26.93
8/21/2007 12:00	0	27.546	30.2	27.51	27.72	26.46	27.81	26.32	27.21	26.91
8/21/2007 13:00	0	28.43	33.01	27.5	27.65	26.46	29.92	27.67	27.13	26.9
8/21/2007 14:00	0	29.135	35.34	27.63	27.62	26.45	31.71	28.98	27.09	26.9
8/21/2007 15:00	0	29.375	38.08	27.91	27.55	26.44	33.92	30.48	27.1	26.88
8/21/2007 16:00	0	29.639	39.96	28.33	27.55	26.44	35.57	31.96	27.18	26.88
8/21/2007 17:00	0	30.005	41.13	28.85	27.5	26.42	36.67	33.2	27.32	26.86
8/21/2007 18:00	0	30.29	41.41	29.45	27.48	26.41	37.1	34.08	27.51	26.83
8/21/2007 19:00	0	29.654	40.74	30.07	27.45	26.41	36.76	34.5	27.74	26.8
8/21/2007 20:00	0	27.772	39.42	30.63	27.46	26.4	35.87	34.45	27.98	26.78
8/21/2007 21:00	0.05	26.626	37.68	31.1	27.49	26.38	34.66	34.03	28.22	26.75
8/21/2007 22:00	0.265	25.031	36.2	31.44	27.53	26.39	33.61	33.41	28.44	26.77
8/21/2007 23:00	0.015	24.549	34.97	31.65	27.6	26.35	32.74	32.79	28.62	26.75
8/22/2007 0:00	0.012	24.209	33.74	31.74	27.66	26.37	31.92	32.2	28.76	26.76

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
8/22/2007 0:00	0.012	24.209	33.74	31.74	27.66	26.37	31.92	32.2	28.76	26.76
8/22/2007 1:00	0	23.943	31.85	31.75	27.73	26.35	30.67	31.52	28.85	26.76
8/22/2007 2:00	0.05	23.751	29.67	31.75	27.8	26.36	29.21	30.59	28.91	26.79
8/22/2007 3:00	0	23.288	28.42	31.6	27.9	26.37	28.12	29.68	28.95	26.82
8/22/2007 4:00	0	23.177	27.55	31.33	27.98	26.38	27.34	28.86	28.91	26.83
8/22/2007 5:00	0	22.663	26.97	31	28.04	26.38	26.91	28.25	28.84	26.84
8/22/2007 6:00	0	22.112	26.48	30.66	28.1	26.38	26.55	27.79	28.75	26.88
8/22/2007 7:00	0	21.92	26.11	30.33	28.11	26.38	26.27	27.42	28.63	26.9
8/22/2007 8:00	0	22.707	25.89	30	28.17	26.39	26.08	27.13	28.52	26.91
8/22/2007 9:00	0	24.257	26.01	29.7	28.18	26.38	26.06	26.94	28.39	26.95
8/22/2007 10:00	0.007	25.307	27.26	29.42	28.16	26.38	26.48	26.91	28.27	26.96
8/22/2007 11:00	0.042	25.636	29.5	29.19	28.14	26.41	27.77	27.27	28.14	26.97
8/22/2007 12:00	0.042	25.717	30.99	29.04	28.13	26.41	28.96	27.99	28.02	27
8/22/2007 13:00	0.062	25.948	31.63	28.99	28.09	26.41	29.52	28.63	27.94	27
8/22/2007 14:00	0.046	24.399	32.19	29.06	28.06	26.42	29.99	29.07	27.91	27.01
8/22/2007 15:00	0.023	23.612	31.77	29.16	28.02	26.42	29.85	29.4	27.9	26.98
8/22/2007 16:00	0.014	23.359	29.5	29.3	27.99	26.42	28.4	29.06	27.89	26.96
8/22/2007 17:00	0.013	21.27	28.38	29.41	27.95	26.43	27.56	28.48	27.93	26.97
8/22/2007 18:00	0	21.318	27.53	29.37	27.93	26.43	26.91	27.93	27.93	26.95
8/22/2007 19:00	0.25	21.179	26.86	29.27	27.93	26.44	26.4	27.46	27.92	26.95
8/22/2007 20:00	0.15	20.479	26.37	29.12	27.94	26.45	26.11	27.08	27.88	26.96
8/22/2007 21:00	0.015	20.108	25.86	28.95	27.92	26.46	25.82	26.8	27.83	26.97
8/22/2007 22:00	0.167	19.532	25.21	28.75	27.88	26.46	25.37	26.48	27.76	26.95
8/22/2007 23:00	0.059	19.052	24.36	28.49	27.88	26.46	24.78	26.09	27.67	26.92
8/23/2007 0:00	0.036	19.055	23.75	28.21	27.88	26.46	24.24	25.66	27.58	26.9
8/23/2007 0:00	0.036	19.055	23.75	28.21	27.88	26.46	24.24	25.66	27.58	26.9
8/23/2007 1:00	0.056	19.072	23.46	27.95	27.84	26.46	23.89	25.27	27.47	26.9
8/23/2007 2:00	0.009	19.161	23.27	27.7	27.81	26.46	23.64	24.96	27.37	26.9
8/23/2007 3:00	0	19.093	23.13	27.47	27.77	26.46	23.47	24.71	27.25	26.9
8/23/2007 4:00	0	18.786	23.04	27.24	27.73	26.46	23.34	24.52	27.12	26.87
8/23/2007 5:00	0	18.517	22.88	27.03	27.67	26.46	23.18	24.35	27.01	26.84
8/23/2007 6:00	0	18.476	22.59	26.83	27.62	26.46	22.92	24.16	26.87	26.83
8/23/2007 7:00	0	18.471	22.32	26.64	27.57	26.46	22.7	23.95	26.76	26.83
8/23/2007 8:00	0.036	18.95	22.15	26.46	27.5	26.45	22.54	23.75	26.64	26.8
8/23/2007 9:00	0.313	19.207	22.37	26.27	27.43	26.43	22.7	23.64	26.53	26.76
8/23/2007 10:00	0.084	19.623	22.84	26.1	27.39	26.43	23.06	23.75	26.42	26.75
8/23/2007 11:00	0	21.115	22.79	25.91	27.32	26.41	23.04	23.83	26.31	26.73
8/23/2007 12:00	0	22.764	23.45	25.76	27.27	26.4	23.61	23.91	26.22	26.68
8/23/2007 13:00	0	24.471	24.38	25.64	27.18	26.4	24.34	24.29	26.12	26.65
8/23/2007 14:00	0.007	25.503	26.28	25.59	27.13	26.38	25.78	24.89	26.04	26.64
8/23/2007 15:00	0.007	25.517	27.77	25.59	27.05	26.37	26.93	25.74	26	26.59
8/23/2007 16:00	0	25.938	30.25	25.68	27	26.35	28.67	26.7	25.99	26.57
8/23/2007 17:00	0	26.14	32.54	25.85	26.92	26.32	30.27	27.91	25.99	26.54
8/23/2007 18:00	0.037	24.887	33.43	26.14	26.89	26.32	30.93	28.9	26.06	26.49
8/23/2007 19:00	0.014	23.786	33.23	26.51	26.83	26.32	30.86	29.42	26.15	26.46
8/23/2007 20:00	0	23.016	32.61	26.9	26.77	26.27	30.48	29.53	26.28	26.4
8/23/2007 21:00	0.365	21.432	31.69	27.26	26.76	26.26	29.88	29.44	26.42	26.37
8/23/2007 22:00	0.213	20.784	30.1	27.61	26.73	26.23	28.95	29.11	26.56	26.35
8/23/2007 23:00	0.185	20.51	28.62	27.92	26.73	26.22	27.9	28.52	26.68	26.31

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
8/24/2007 0:00	0.031	20.362	27.74	28.03	26.74	26.21	27.17	27.94	26.78	26.29
8/24/2007 0:00	0.031	20.362	27.74	28.03	26.74	26.21	27.17	27.94	26.78	26.29
8/24/2007 1:00	0.023	20.203	27.04	28.02	26.77	26.18	26.6	27.41	26.83	26.27
8/24/2007 2:00	0.051	20.051	26.45	27.96	26.8	26.14	26.13	26.97	26.84	26.25
8/24/2007 3:00	0.051	19.904	25.84	27.87	26.82	26.15	25.72	26.59	26.85	26.25
8/24/2007 4:00	0.03	19.519	25.26	27.74	26.83	26.14	25.29	26.24	26.83	26.24
8/24/2007 5:00	0.05	19.178	24.75	27.58	26.83	26.1	24.85	25.87	26.79	26.24
8/24/2007 6:00	0.093	18.976	24.28	27.41	26.84	26.09	24.41	25.51	26.73	26.24
8/24/2007 7:00	0.023	18.733	23.96	27.22	26.84	26.1	24.09	25.18	26.66	26.24
8/24/2007 8:00	0.006	18.439	23.62	27.04	26.83	26.09	23.79	24.89	26.57	26.24
8/24/2007 9:00	0.007	18.672	23.33	26.84	26.83	26.05	23.53	24.62	26.49	26.22
8/24/2007 10:00	0	19.456	23.19	26.64	26.83	26.02	23.38	24.4	26.39	26.2
8/24/2007 11:00	0	20.652	23.2	26.45	26.83	26.02	23.33	24.25	26.29	26.19
8/24/2007 12:00	0	21.626	23.58	26.29	26.79	26.02	23.55	24.21	26.21	26.18
8/24/2007 13:00	0	22.591	24.29	26.14	26.75	26.02	24.05	24.33	26.12	26.18
8/24/2007 14:00	0	23.264	25.96	26.02	26.73	26.01	25.3	24.74	26.03	26.17
8/24/2007 15:00	0	23.618	28.36	25.96	26.69	26.01	27.06	25.64	25.95	26.15
8/24/2007 16:00	0	23.863	29.92	25.98	26.65	25.99	28.21	26.63	25.92	26.14
8/24/2007 17:00	0.054	23.223	30.99	26.11	26.62	25.98	29	27.44	25.91	26.13
8/24/2007 18:00	0	21.974	30.9	26.32	26.57	25.97	28.99	27.96	25.92	26.06
8/24/2007 19:00	0.007	21.066	30.16	26.59	26.54	25.94	28.49	28.05	26.01	26.07
8/24/2007 20:00	0	20.364	29.23	26.83	26.51	25.94	27.84	27.85	26.09	26.04
8/24/2007 21:00	0	19.605	28.28	27.01	26.5	25.92	27.16	27.51	26.18	26.02
8/24/2007 22:00	0	18.934	27.41	27.13	26.48	25.92	26.53	27.1	26.24	26
8/24/2007 23:00	0	17.9	26.58	27.2	26.48	25.9	25.9	26.68	26.3	25.99
8/25/2007 0:00	0	17.24	25.67	27.18	26.46	25.88	25.19	26.19	26.31	25.96
8/25/2007 0:00	0	17.24	25.67	27.18	26.46	25.88	25.19	26.19	26.31	25.96
8/25/2007 1:00	0	16.988	25.04	27.1	26.46	25.88	24.71	25.73	26.31	25.95
8/25/2007 2:00	0	16.734	24.53	27	26.46	25.87	24.32	25.35	26.28	25.95
8/25/2007 3:00	0	16.157	23.84	26.87	26.47	25.83	23.75	24.97	26.24	25.92
8/25/2007 4:00	0	15.814	23.07	26.72	26.49	25.83	23.1	24.52	26.18	25.9
8/25/2007 5:00	0	15.394	22.44	26.55	26.49	25.83	22.57	24.04	26.1	25.9
8/25/2007 6:00	0	14.768	21.76	26.35	26.49	25.82	21.99	23.59	26.01	25.91
8/25/2007 7:00	0	14.304	20.96	26.14	26.45	25.8	21.3	23.1	25.91	25.92
8/25/2007 8:00	0	15.346	20.29	25.91	26.44	25.78	20.75	22.59	25.79	25.87
8/25/2007 9:00	0	17.374	20.11	25.68	26.43	25.78	20.44	22.18	25.67	25.86
8/25/2007 10:00	0	19.394	21.06	25.44	26.4	25.78	20.44	21.9	25.53	25.88
8/25/2007 11:00	0	21.049	23.61	25.21	26.36	25.77	21.75	22.04	25.38	25.85
8/25/2007 12:00	0	22.472	26.79	25.06	26.31	25.75	24.06	22.97	25.24	25.82
8/25/2007 13:00	0	23.283	30.06	25.02	26.27	25.73	26.47	24.36	25.13	25.78
8/25/2007 14:00	0	23.93	32.93	25.13	26.22	25.72	28.71	25.95	25.05	25.76
8/25/2007 15:00	0	24.323	35.33	25.41	26.19	25.7	30.63	27.51	25.05	25.76
8/25/2007 16:00	0	24.754	37.06	25.83	26.13	25.69	31.99	28.9	25.14	25.76
8/25/2007 17:00	0	24.724	38.22	26.36	26.1	25.67	32.88	29.98	25.26	25.72
8/25/2007 18:00	0	24.671	38.48	26.95	26.08	25.65	33.17	30.74	25.44	25.65
8/25/2007 19:00	0	24.423	37.78	27.55	26.08	25.64	32.79	31.08	25.65	25.64
8/25/2007 20:00	0	22.012	36.26	28.11	26.08	25.65	31.79	30.95	25.87	25.61
8/25/2007 21:00	0	19.398	34.12	28.57	26.06	25.61	30.35	30.39	26.09	25.58
8/25/2007 22:00	0	18.548	32.11	28.91	26.11	25.6	28.98	29.59	26.29	25.56

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
8/25/2007 23:00	0	17.647	30.42	29.1	26.16	25.59	27.81	28.74	26.45	25.56
8/26/2007 0:00	0	17.241	28.99	29.15	26.24	25.59	26.79	27.93	26.54	25.54
8/26/2007 0:00	0	17.241	28.99	29.15	26.24	25.59	26.79	27.93	26.54	25.54
8/26/2007 1:00	0	16.75	27.77	29.12	26.29	25.57	25.91	27.18	26.62	25.53
8/26/2007 2:00	0	16.551	26.74	28.99	26.36	25.54	25.16	26.5	26.63	25.54
8/26/2007 3:00	0	16.283	25.81	28.79	26.41	25.54	24.46	25.88	26.58	25.54
8/26/2007 4:00	0	16.298	25.02	28.56	26.47	25.54	23.86	25.31	26.53	25.55
8/26/2007 5:00	0	16.233	24.36	28.3	26.5	25.54	23.35	24.8	26.44	25.58
8/26/2007 6:00	0	15.639	23.75	28.03	26.56	25.54	22.88	24.36	26.34	25.61
8/26/2007 7:00	0	15.984	23.1	27.75	26.56	25.54	22.38	23.92	26.23	25.62
8/26/2007 8:00	0	17.367	22.67	27.48	26.56	25.54	22.03	23.51	26.1	25.61
8/26/2007 9:00	0	19.289	22.78	27.21	26.58	25.54	21.98	23.27	25.97	25.62
8/26/2007 10:00	0	21.367	23.76	26.95	26.6	25.53	22.14	23.14	25.84	25.64
8/26/2007 11:00	0	22.841	26.1	26.71	26.56	25.52	23.55	23.4	25.7	25.63
8/26/2007 12:00	0	24.132	28.84	26.55	26.55	25.53	25.69	24.35	25.59	25.63
8/26/2007 13:00	0	25.156	31.65	26.5	26.51	25.55	27.9	25.68	25.49	25.62
8/26/2007 14:00	0	25.872	34.31	26.62	26.49	25.55	30	27.17	25.48	25.62
8/26/2007 15:00	0	26.353	36.47	26.87	26.48	25.54	31.78	28.64	25.47	25.62
8/26/2007 16:00	0	26.571	37.89	27.25	26.42	25.53	33.06	29.93	25.54	25.6
8/26/2007 17:00	0	26.542	38.59	27.74	26.39	25.52	33.79	30.94	25.68	25.59
8/26/2007 18:00	0	26.056	38.47	28.28	26.38	25.51	33.9	31.58	25.87	25.56
8/26/2007 19:00	0	25.114	37.44	28.82	26.38	25.51	33.42	31.81	26.08	25.51
8/26/2007 20:00	0	23.632	35.9	29.28	26.39	25.52	32.43	31.62	26.3	25.52
8/26/2007 21:00	0	22.322	34.01	29.63	26.42	25.49	31.11	31.06	26.51	25.48
8/26/2007 22:00	0	21.39	32.33	29.87	26.47	25.5	29.9	30.32	26.69	25.5
8/26/2007 23:00	0	21.114	30.93	29.97	26.52	25.49	28.88	29.57	26.85	25.49
8/27/2007 0:00	0	21.066	29.71	29.97	26.58	25.49	27.98	28.84	26.94	25.49
8/27/2007 0:00	0	21.066	29.71	29.97	26.58	25.49	27.98	28.84	26.94	25.49
8/27/2007 1:00	0	20.05	28.67	29.9	26.66	25.51	27.21	28.19	27	25.51
8/27/2007 2:00	0	20.21	27.75	29.75	26.71	25.52	26.52	27.58	27.01	25.52
8/27/2007 3:00	0	20.26	27.01	29.54	26.76	25.52	25.93	27.03	26.99	25.54
8/27/2007 4:00	0	20.35	26.46	29.31	26.82	25.52	25.51	26.56	26.95	25.55
8/27/2007 5:00	0	20.79	26.01	29.07	26.85	25.52	25.15	26.18	26.88	25.58
8/27/2007 6:00	0	21.6	25.59	28.82	26.9	25.52	24.8	25.84	26.8	25.59
8/27/2007 7:00	0	21.67	25.28	28.57	26.9	25.52	24.56	25.54	26.71	25.61
8/27/2007 8:00	0	21.65	25.06	28.33	26.9	25.52	24.36	25.3	26.62	25.64
8/27/2007 9:00	0	22.83	25.14	28.1	26.91	25.51	24.41	25.14	26.52	25.65
8/27/2007 10:00	0	25.2	25.81	27.88	26.91	25.52	24.69	25.12	26.41	25.65
8/27/2007 11:00	0	26.93	28.11	27.7	26.91	25.54	26.15	25.5	26.33	25.66
8/27/2007 12:00	0	29.1	31.07	27.6	26.89	25.54	28.32	26.5	26.25	25.68
8/27/2007 13:00	0	30.21	34.21	27.59	26.87	25.53	30.63	27.9	26.17	25.67
8/27/2007 14:00	0	30.91	37.03	27.72	26.82	25.56	32.78	29.44	26.16	25.66
8/27/2007 15:00	0	31.62	39.25	28.03	26.81	25.57	34.59	30.95	26.23	25.66
8/27/2007 16:00	0	31.93	40.85	28.49	26.81	25.57	35.96	32.31	26.35	25.67
8/27/2007 17:00	0	31.85	41.67	29.05	26.8	25.56	36.74	33.37	26.53	25.67
8/27/2007 18:00	0	31.35	41.74	29.65	26.78	25.55	36.92	34.07	26.75	25.67
8/27/2007 19:00	0	30.39	41.07	30.24	26.78	25.56	36.54	34.38	27.01	25.66
8/27/2007 20:00	0	28.51	39.62	30.76	26.79	25.55	35.54	34.23	27.26	25.65
8/27/2007 21:00	0	26.61	37.75	31.2	26.83	25.56	34.22	33.71	27.51	25.66

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
8/27/2007 22:00	0	25.4	36	31.51	26.91	25.54	32.98	32.98	27.74	25.67
8/27/2007 23:00	0	24.58	34.51	31.68	26.97	25.56	31.91	32.21	27.91	25.67
8/28/2007 0:00	0	24.56	33.25	31.72	27.05	25.57	30.98	31.47	28.05	25.7
8/28/2007 0:00	0	24.56	33.25	31.72	27.05	25.57	30.98	31.47	28.05	25.7
8/28/2007 1:00	0	24.5	32.18	31.68	27.13	25.57	30.18	30.8	28.12	25.72
8/28/2007 2:00	0	24.62	31.26	31.57	27.22	25.59	29.47	30.19	28.18	25.74
8/28/2007 3:00	0	23.23	30.42	31.41	27.3	25.6	28.82	29.62	28.2	25.79
8/28/2007 4:00	0	22.46	29.62	31.21	27.36	25.6	28.19	29.08	28.16	25.81
8/28/2007 5:00	0	21.69	28.88	30.97	27.42	25.6	27.59	28.56	28.11	25.84
8/28/2007 6:00	0	20.78	28.18	30.73	27.47	25.6	27.02	28.07	28.04	25.88
8/28/2007 7:00	0	19.98	27.53	30.48	27.51	25.63	26.49	27.61	27.98	25.93
8/28/2007 8:00	0	21.15	27	30.22	27.57	25.66	26.06	27.17	27.89	25.96
8/28/2007 9:00	0	23.81	26.93	29.95	27.57	25.65	25.88	26.83	27.79	25.99
8/28/2007 10:00	0	26.42	27.89	29.68	27.57	25.66	26.16	26.68	27.68	26.02
8/28/2007 11:00	0	28.58	30.17	29.45	27.6	25.68	27.64	27.01	27.56	26.05
8/28/2007 12:00	0	30.04	33.05	29.3	27.58	25.7	29.83	28	27.46	26.07
8/28/2007 13:00	0	31.04	35.97	29.27	27.56	25.72	32.05	29.34	27.38	26.08
8/28/2007 14:00	0	31.91	38.74	29.41	27.55	25.71	34.2	30.86	27.36	26.1
8/28/2007 15:00	0	32.49	41.09	29.7	27.54	25.73	36.05	32.36	27.39	26.11
8/28/2007 16:00	0	32.7	42.75	30.12	27.53	25.75	37.43	33.71	27.49	26.12
8/28/2007 17:00	0	32.22	43.64	30.66	27.53	25.76	38.22	34.79	27.66	26.12
8/28/2007 18:00	0	31.79	43.62	31.23	27.5	25.77	38.37	35.47	27.86	26.13
8/28/2007 19:00	0	28.74	42.66	31.8	27.51	25.77	37.75	35.72	28.09	26.12
8/28/2007 20:00	0	25.97	40.72	32.31	27.56	25.79	36.41	35.4	28.34	26.14
8/28/2007 21:00	0.45	21.2	37.41	32.91	27.6	25.78	34.71	34.71	28.58	26.12
8/28/2007 22:00	0.15	20.2	33.41	33.44	27.69	25.79	32.08	33.42	28.78	26.16
8/28/2007 23:00	0.13	20.04	31.05	33.6	27.84	25.81	30.31	31.97	28.94	26.18
8/29/2007 0:00	0.1	19.96	29.73	33.44	27.98	25.83	29.22	30.82	29.03	26.21
8/29/2007 0:00	0.1	19.96	29.73	33.44	27.98	25.83	29.22	30.82	29.03	26.21
8/29/2007 1:00	0	20.02	28.75	33.09	28.12	25.84	28.35	29.89	29.04	26.24
8/29/2007 2:00	0.16	19.97	28.11	32.66	28.26	25.86	27.7	29.16	29	26.27
8/29/2007 3:00	0	19.73	27.43	32.22	28.36	25.88	27.08	28.53	28.92	26.3
8/29/2007 4:00	0	19.65	26.95	31.79	28.43	25.88	26.58	27.99	28.81	26.33
8/29/2007 5:00	0	19.51	26.38	31.38	28.49	25.93	26.04	27.49	28.68	26.38
8/29/2007 6:00	0	19.22	25.91	30.98	28.5	25.95	25.71	27.04	28.54	26.4
8/29/2007 7:00	0	19.25	25.41	30.6	28.5	25.96	25.43	26.69	28.39	26.44
8/29/2007 8:00	0	19.55	25.1	30.24	28.5	26.02	25.23	26.41	28.24	26.46
8/29/2007 9:00	0	19.79	24.9	29.9	28.48	26.02	24.96	26.15	28.1	26.48
8/29/2007 10:00	0	20.01	24.87	29.57	28.42	26.08	24.81	25.91	27.95	26.51
8/29/2007 11:00	0	20.87	25.66	29.27	28.42	26.1	25.33	25.85	27.82	26.53
8/29/2007 12:00	0	21.39	27.36	29.01	28.35	26.13	26.61	26.28	27.67	26.54
8/29/2007 13:00	0	21.73	28.81	28.82	28.29	26.16	27.72	26.94	27.55	26.54
8/29/2007 14:00	0	22.44	30.41	28.7	28.23	26.17	28.92	27.68	27.44	26.52
8/29/2007 15:00	0	22.8	31.83	28.69	28.17	26.2	30.01	28.52	27.41	26.52
8/29/2007 16:00	0	23.48	32.7	28.78	28.12	26.22	30.65	29.23	27.39	26.52
8/29/2007 17:00	0	23.66	33.64	28.92	28.07	26.21	31.31	29.8	27.39	26.51
8/29/2007 18:00	0	24.38	34.38	29.12	28	26.26	31.87	30.36	27.45	26.51
8/29/2007 19:00	0	23.83	34.09	29.34	27.98	26.27	31.67	30.67	27.52	26.49
8/29/2007 20:00	0	21.62	32.85	29.56	27.92	26.27	30.72	30.55	27.6	26.49

Date/Time	Precip. (in)	T _{air} (°C)	T _{pccp} , 8cm (°C)	T _{pccp} , 40cm (°C)	T _{pccp} , 60cm (°C)	T _{pccp} , 70cm (°C)	T _{pcc} , 8cm (°C)	T _{pcc} , 15cm (°C)	T _{pcc} , 30cm (°C)	T _{pcc} , 60cm (°C)
8/29/2007 21:00	0	18.98	31.18	29.75	27.88	26.23	29.43	30	27.69	26.47
8/29/2007 22:00	0	17.68	29.59	29.88	27.87	26.25	28.18	29.25	27.77	26.47
8/29/2007 23:00	0	16.77	28.16	29.88	27.88	26.24	27.06	28.44	27.81	26.46
8/30/2007 0:00	0	15.95	26.91	29.8	27.87	26.26	26.04	27.64	27.83	26.48
8/30/2007 0:00	0	15.95	26.91	29.8	27.87	26.26	26.04	27.64	27.83	26.48
8/30/2007 1:00	0	15.15	25.75	29.62	27.84	26.27	25.09	26.86	27.8	26.46
8/30/2007 2:00	0	14.75	24.69	29.4	27.85	26.29	24.21	26.12	27.75	26.44
8/30/2007 3:00	0	14.15	23.71	29.12	27.86	26.28	23.38	25.41	27.64	26.44
8/30/2007 4:00	0	13.63	22.82	28.81	27.86	26.26	22.64	24.73	27.5	26.44
8/30/2007 5:00	0	13.04	22.01	28.48	27.81	26.26	21.96	24.1	27.35	26.44
8/30/2007 6:00	0	12.8	21.28	28.14	27.8	26.26	21.34	23.52	27.19	26.45
8/30/2007 7:00	0	12.6	20.6	27.8	27.77	26.26	20.75	22.97	27.02	26.46
8/30/2007 8:00	0	13.7	20.03	27.46	27.73	26.25	20.26	22.46	26.83	26.46
8/30/2007 9:00	0	16.2	19.86	27.12	27.67	26.27	19.99	22.04	26.64	26.45
8/30/2007 10:00	0	18.36	20.85	26.78	27.61	26.26	20.03	21.77	26.44	26.43
8/30/2007 11:00	0	20.66	23.49	26.47	27.55	26.25	21.5	21.97	26.24	26.4
8/30/2007 12:00	0	22.05	26.66	26.24	27.49	26.23	23.87	22.97	26.05	26.37
8/30/2007 13:00	0	23.14	29.98	26.13	27.42	26.22	26.32	24.4	25.89	26.35
8/30/2007 14:00	0	23.73	33.14	26.19	27.36	26.22	28.65	26.03	25.79	26.34
8/30/2007 15:00	0	24.26	35.77	26.42	27.28	26.21	30.64	27.64	25.76	26.34
8/30/2007 16:00	0	24.87	37.68	26.79	27.22	26.19	32.1	29.07	25.8	26.26
8/30/2007 17:00	0	24.94	38.67	27.3	27.15	26.21	32.95	30.21	25.92	26.25
8/30/2007 18:00	0	24.84	38.6	27.86	27.11	26.2	33.1	30.92	26.07	26.22
8/30/2007 19:00	0	24.35	37.74	28.44	27.05	26.16	32.61	31.19	26.27	26.16
8/30/2007 20:00	0	22.53	36.06	28.97	27.04	26.16	31.48	30.97	26.47	26.13
8/30/2007 21:00	0	19.8	33.81	29.39	27.02	26.13	29.96	30.32	26.66	26.09
8/30/2007 22:00	0	18.94	31.73	29.69	27.03	26.13	28.53	29.45	26.84	26.07
8/30/2007 23:00	0	18.29	29.96	29.84	27.05	26.1	27.28	28.54	26.97	26.04
8/31/2007 0:00	0	17.71	28.44	29.84	27.12	26.12	26.19	27.66	27.06	26.05
8/31/2007 0:00	0	17.71	28.44	29.84	27.12	26.12	26.19	27.66	27.06	26.05
8/31/2007 1:00	0	15.34	27.12	29.74	27.16	26.09	25.21	26.84	27.09	26.05
8/31/2007 2:00	0	17.18	25.94	29.55	27.2	26.07	24.33	26.07	27.05	26.01
8/31/2007 3:00	0	15.33	24.9	29.3	27.26	26.08	23.53	25.36	27	26
8/31/2007 4:00	0	14.61	23.95	29	27.26	26.07	22.79	24.69	26.89	26
8/31/2007 5:00	0	14.15	23.08	28.69	27.3	26.05	22.11	24.07	26.77	26.01
8/31/2007 6:00	0	13.92	22.32	28.37	27.31	26.03	21.5	23.5	26.63	26.02
8/31/2007 7:00	0	13.53	21.62	28.04	27.31	26.02	20.95	22.97	26.47	26.02
8/31/2007 8:00	0	15.06	21.05	27.7	27.31	26.02	20.51	22.49	26.31	26.02
8/31/2007 9:00	0	18.48	20.95	27.37	27.3	26.03	20.29	22.12	26.14	26.02
8/31/2007 10:00	0	20.77	22.03	27.05	27.29	26.04	20.46	21.92	25.97	26.04
8/31/2007 11:00	0	22.28	24.68	26.76	27.24	26.02	22.09	22.23	25.79	26.02
8/31/2007 12:00	0	23.7	27.88	26.54	27.17	26.02	24.49	23.3	25.63	25.99
8/31/2007 13:00	0	24.6	31.15	26.46	27.15	26.04	26.97	24.78	25.5	25.97
8/31/2007 14:00	0	24.96	34.15	26.51	27.06	26.03	29.26	26.42	25.43	25.96
8/31/2007 15:00	0	25.53	36.66	26.74	27.01	26.03	31.2	28.02	25.42	25.93
8/31/2007 16:00	0	26	38.45	27.13	26.98	26.03	32.65	29.45	25.49	25.88
8/31/2007 17:00	0	26.22	39.4	27.64	26.93	26.02	33.49	30.57	25.63	25.87
8/31/2007 18:00	0	26.11	39.31	28.21	26.88	26	33.69	31.3	25.81	25.86
8/31/2007 19:00	0	25.45	38.48	28.78	26.87	26	33.19	31.59	26.03	25.82

Date/Time	Precip. (in)	T_{air} (°C)	T_{pccp}, 8cm (°C)	T_{pccp}, 40cm (°C)	T_{pccp}, 60cm (°C)	T_{pccp}, 70cm (°C)	T_{pcc}, 8cm (°C)	T_{pcc}, 15cm (°C)	T_{pcc}, 30cm (°C)	T_{pcc}, 60cm (°C)
8/31/2007 20:00	0	23.62	36.83	29.31	26.88	25.96	32.09	31.38	26.25	25.78
8/31/2007 21:00	0	22.07	34.71	29.74	26.85	25.94	30.67	30.77	26.46	25.75
8/31/2007 22:00	0	19.82	32.79	30.03	26.89	25.93	29.36	29.97	26.66	25.73
8/31/2007 23:00	0	17.99	31.13	30.19	26.96	25.94	28.19	29.13	26.81	25.72
9/1/2007 0:00	0	17.85	29.66	30.2	26.98	25.91	27.13	28.3	26.9	25.73