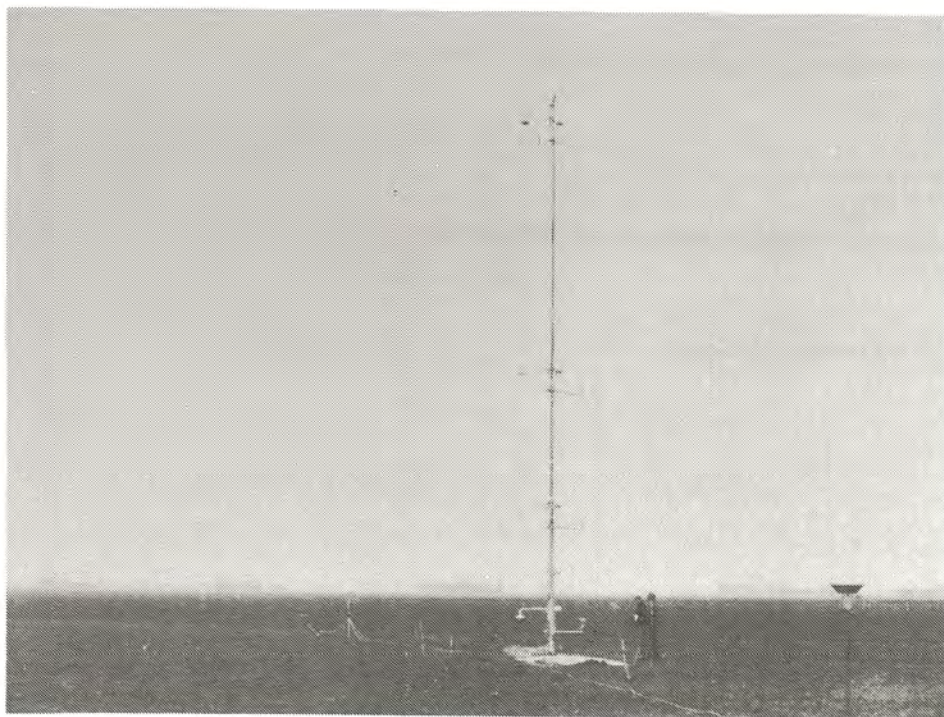




ATMOSPHERIC BOUNDARY LAYER FIELD  
EXPERIMENT IN SWEDEN 1980  
GOTEX II, Part I

by Kjell Ericson



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| Abstract<br><br>Data from a comprehensive atmospheric boundary layer experiment in southern Sweden are presented. The measurements were taken during some typical diurnal periods, featuring both convective, daytime regimes and nighttime stable conditions. The site is situated at Klockrike in southern Sweden. This is in an extremely flat district for being in Scandinavia, though the place must be considered as complex. |                                                                                                                                                                                                                                                                                                       |                         |                         |  |                             |  |
| Key words<br>Boundary layer<br>Measurements<br>Data                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                       |                         |                         |  |                             |  |
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Atmospheric Boundary Layer Field Experiment in Sweden 1980,  
part I

GOTEX II

1. INTRODUCTION

The demand of complete observations of the atmospheric boundary layer, when dealing with development of numerical models, is evident. Data from nordic latitudes are quite sparse, at least of the entire mixed layer. The present data were taken at latitude  $58.45^{\circ}\text{N}$ , where the inertial oscillation period is only 14 hours. A pilot experiment in 1977, GOTEX I (Ericson & Hårsmar, 1980), preceded the experiment reported in this paper. The GOTEX II was designed to capture most processes in the atmospheric boundary layer in an 'one-dimensional' sense (i.e. in the vertical direction).

GOTEX II was performed, in co-operation, by teams from the Swedish Meteorological and Hydrological Institute (SMHI), the Swedish Military Weather Service and the Department of Meteorology, University of Uppsala. The measurements were done during five consecutive days in the beginning of May, 1980. This paper reports compiled data from the surface layer, i.e. mean quantities of wind, temperature, humidity, net and global radiation and soil temperature. In addition rawinsonde data from the whole troposphere are given. In Bergström & Alexandersson (1981), Atmospheric Boundary Layer Field Experiment in Sweden 1980, part 2, the remaining part of data from GOTEX II is found. This means hourly mean wind profiles 0-2 km and some periods of turbulence measurements. Data are available on tape on request.

## 2. EXPERIMENTAL SITE

The site chosen for the experiment is situated in the southern part of Sweden (some 200 km southwest of Stockholm), see fig. 1. This is at the old bottom of Lake Ancyloss, in our days fertile farmland. The area is rather smooth, with scattered, minor groves. At the small village Klockrike one of the most flattest places in Sweden is situated. The site for this experiment is shown in fig. 2. In the sector  $045^{\circ}$ - $110^{\circ}$  from the main meteorological tower an area with scattered buildings and trees some 600 meters away creates the most disturbed fetch. In this sector the two mobile trailers, containing all data acquisition equipment, were placed 50 meters away from the tower. The tower itself will also affect the wind measurements in this sector (cp. section 3.1.2 and 10).



Figure 1  
*Map of Southern Sweden*

The regional, overall topography in the west-east and north-south directions is shown in fig. 3. It also shows an estimate of the land-slope affecting the site, i.e.  $6.7/10\ 000$  in west-east direction, and  $28./10\ 000$  to the south.

The coordinates for the site are  $53^{\circ}\ 28'N$  and  $15^{\circ}\ 22'E$ , and the height above mean sea level is around 70 meters. Local time is used throughout, being one hour ahead of Greenwich mean time (GMT+1) and very close to true solar time.

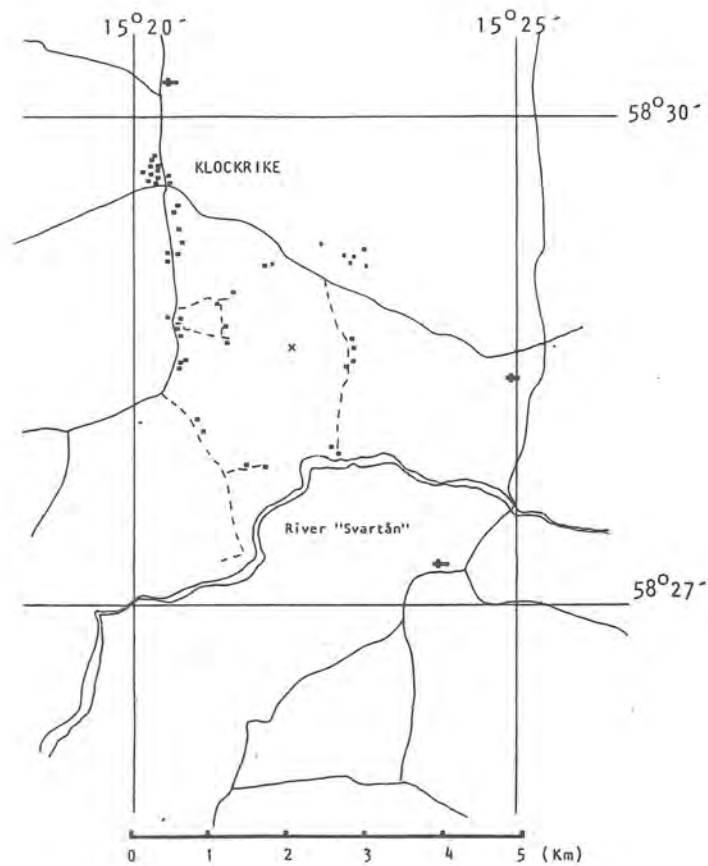


Figure 2

The location of the site (indicated by x) and the nearest surroundings

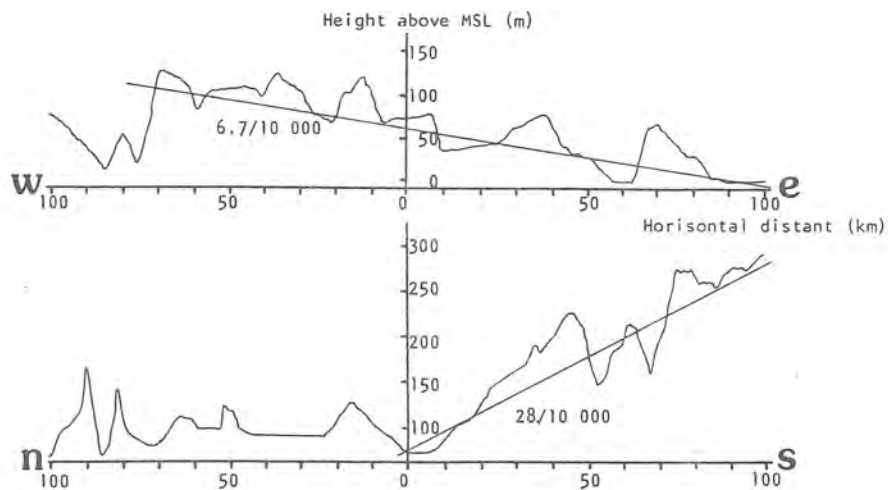


Figure 3

Topographic cross-sections  $\pm 100$  km from the site. The west-east section indicates an overall slope of 6.7/10 000 while the north-south section shows almost no inclination to the north, but 28./10 000 to the south

### 3. INSTRUMENTATION

#### 3.1 Surface layer mean quantities

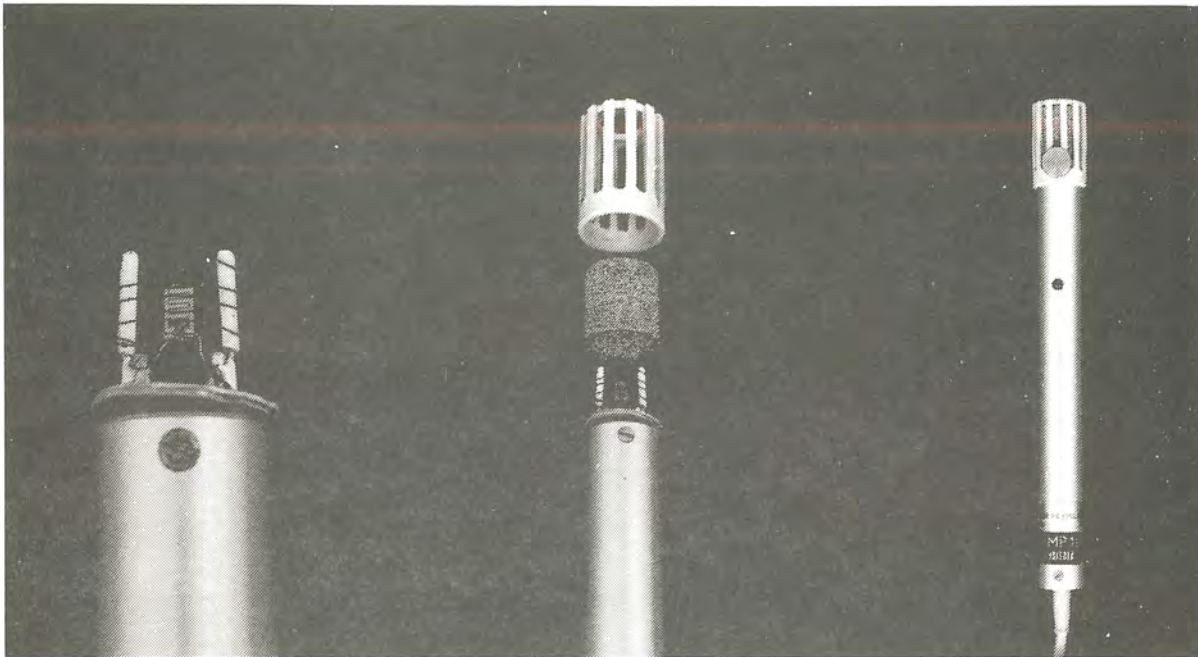
An 18 metres high telescope mast carrying five levels of instruments was used. At each level temperature, humidity and windspeed were measured and, in addition, at the top wind direction. South of the mast sensors for net and global radiation were placed, and buried in the soil six temperature probes at different levels.

3.1.1 Wind direction was measured at the top of the 18 metres tower, using a Lambrecht model 1466 windvane (with potentiometer). The resolution is estimated to  $\pm 1^\circ$  and the damping ratio to approximately 0.25.

3.1.2 Windspeed. Five Teledyne model 1564B anemometers with 'staggered six' cups were placed at 17.00, 8.50, 4.25, 2.13 and 1.06 metres above ground. They were mounted on booms, 1.5 metres out from the tower and pointing in direction  $270^\circ$ . The absolute accuracy of this instrument can be estimated to  $\pm 4\%$  for laminar flow. The error relative a standard in windtunnel is for all the sensors  $\pm 2\%$ . The threshold is 0.18 m/s and the distant constant 1.0 metre.

3.1.3 Temperature. At the same levels as the anemometers Teledyne aspirated radiation shield model 327 were mounted, pointing  $090^\circ$ . The temperature probes used were Rosemount Pt-100, of which the accuracy is 0.05K, including radiation errors in this configuration.

3.1.4 Humidity. Vaisala Humicap HMP 11 probes were used to measure relative humidity at the same levels as temperature and windspeed. A great effort was put in to calibrate the sensors and to make them stable. Previous long term tests in a climate chamber had shown that the instrument does not stand outdoor environment, especially not at high humidity. To overcome this problem, the sensors were modified. Inside the sintered filter, which is used to protect the sensor from dust and which also reduces the response time, a heat-spiral was mounted (see fig. 4). The volume surrounding the sensor is about  $2 \text{ cm}^3$ . As a prevention of the instrument, the air inside the filter was heated for a few minutes between each period of data-sampling. It was then allowed to adjust to atmospheric conditions again through the ventilation inside the radiation shield. The time periods needed for this were thoroughly tested in the climate chamber. These periods became a constraint to the sampling periods, both to their extension and frequency.



a)

b)

c)

Figure 4

Picture a) shows the heating spiral around the sensor  
 b) is an overview of the sensor and the sintered filter and  
 c) shows the entire Vaisala Humicap probe.

Other efforts to increase the accuracy of the measurements were also made. Frequently during the experiment a sixth instrument was lifted to each level for intercomparisons. After the experiment all six instruments were mounted side by side on one boom and data were sampled for another 24 hour period. Each instrument was calibrated before and after the experiment in the climate chamber against SMHI's normal, a Cambridge Dew Point Hygrometer Model 110 SM.

The relative accuracy of this equipment can then be estimated to  $\pm 2\%$  relative humidity.

The tower-sensors can be seen in figs. 5 and 6.

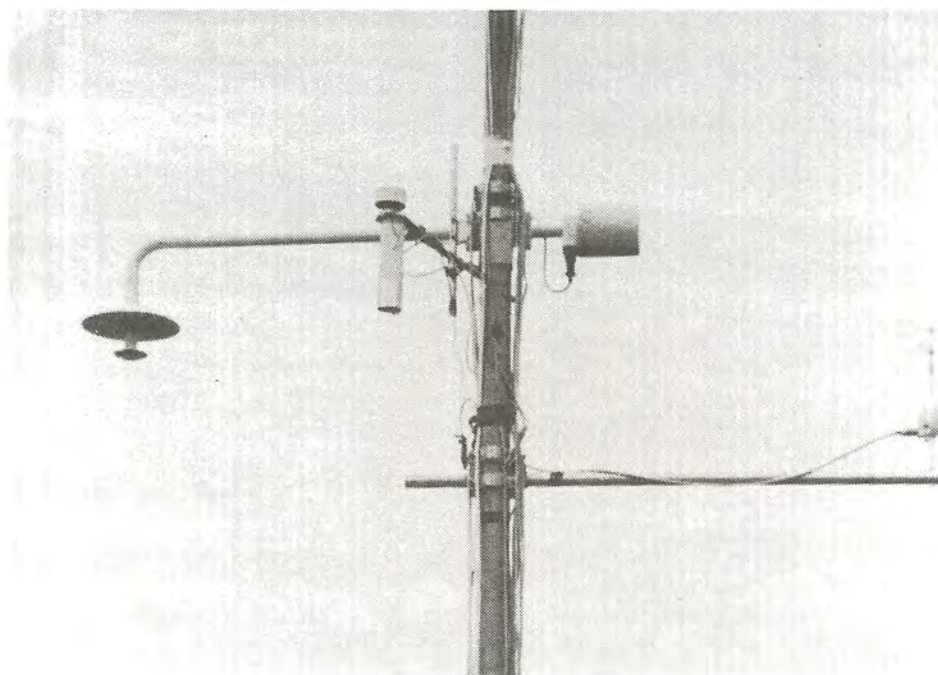


Figure 5

*One level of instruments on the telescope mast, i.e. a Teledyne radiation shield with a PT-100 sensor (temperature), another radiation shield containing the Vaisala Humicap (humidity) and a Teledyne 'staggered six' anemometer (windspeed)*

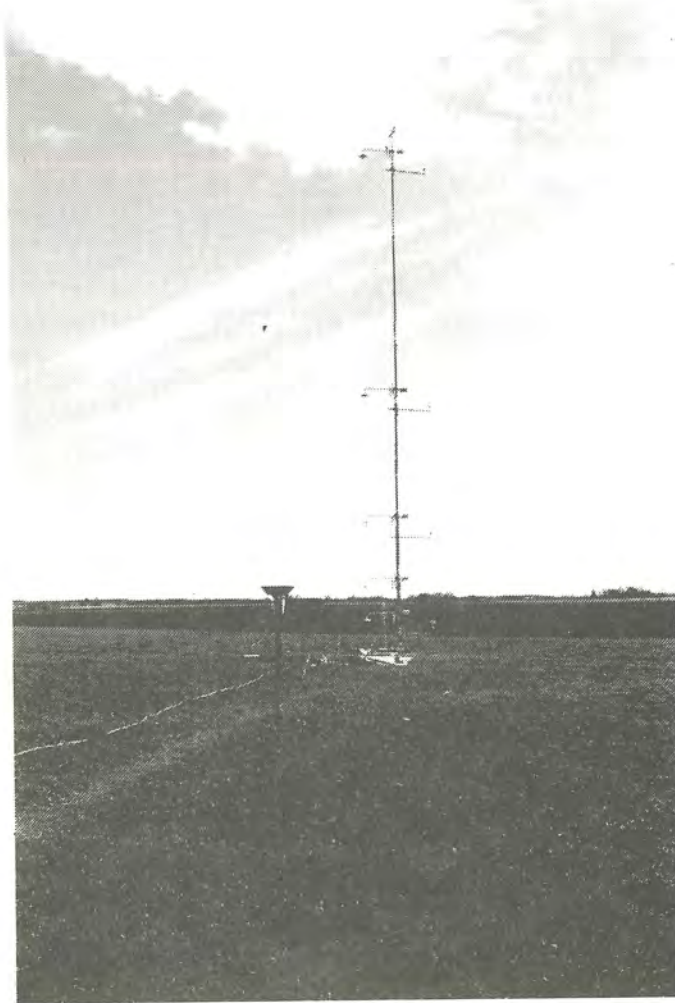


Figure 6

*An overview of the surface layer profile mast. In the foreground a rain gauge.*

3.1.5 Net radiation. South of the tower net radiation was measured using a Siemen Ersking Net Radiometer mounted one metre above ground, with  $\pm 7\%$  accuracy. (See also fig. 7).

3.1.6 Global Radiation. To measure global radiation we used a Moll Gorzinski Pyranometer mounted on a 2 metres high rod. This instrument was also placed south of the profile tower (see front cover). Its accuracy is  $\pm 4\%$ .

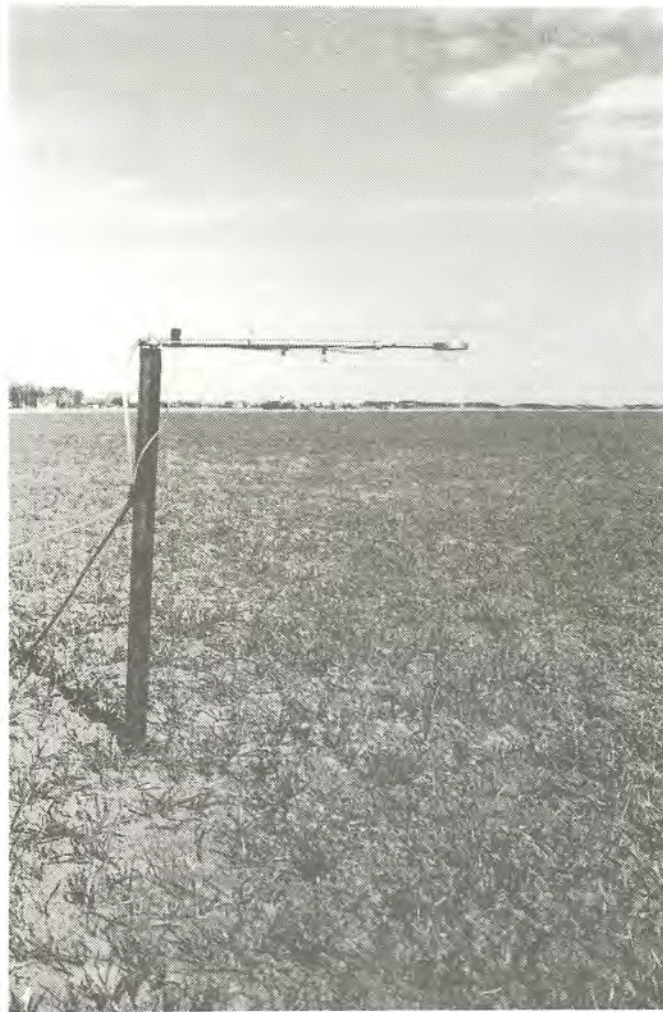


Figure 7

*The Siemen Erskin Net Radiometer placed over the sparse crops at the site*

### 3.2 Soil measurements

3.2.1 Soil temperature. To measure the temperature profile in the soil, six Rosemount Pt-100 sensors were burried at 0.0, 0.02, 0.045, 0.10, 0.23 and 0.51 metres deep. They were inserted into untouched soil horisontally from beside. The uppermost sensor, at the soil/air interface, will generally not measure the true surface temperature due to radiation influences and the finite size of the sensor. The absolute error is  $\pm 0.05$  deg.

3.2.2 Soil heat flux measurements became a failure. This was because we were unable to get proper heat flux discs delivered in time. The two probes used were not designed for this application, and the measurements we got showed unacceptable discrepancies.

3.2.3 Soil water content,  $W(\text{mm})$ , has been calculated as follows: Twice a day, around 0600 and 1600 LT, three cylinders of soil, 0.18 metre deep and area  $3.75 \times 10^{-5} \text{ m}^2$  were taken from the soil top layer at the site. By gravimetric and glowloss methods the water content and fraction of organic matter were determined and converted to volumetric basis by the appropriate bulk density. The water content data have been smoothed, such that

$$W^t = (w^{t-2} + 2w^{t-1} + 3w^t + 2w^{t+1} + w^{t+2})/9 \quad (1)$$

where  $w^t$  is the mean of the three soil-cores taken at time  $t$ .

The method itself contains many sources of errors, but the data given here are estimated to be accurate within 8%.

The smoothed water contents represent an estimated, relative accuracy of  $\pm 1 \text{ mm}$ . Another question of interest, however, is what the physical significance of these data is. This is discussed further in 9.3. The soil water contents are given in fig. 8 and are included in the tables in App. A.

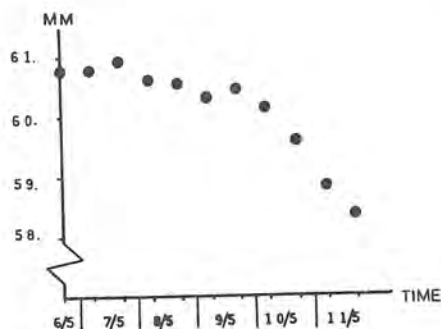


Figure 8  
Soil water content as function of time

### 3.3 Data acquisition system.

A Compulogg II computerized datalogger was used to sample, integrate in time and digitize all output signals. Storage medium was magnetic tape. To get two values per hour, all output signals were sampled once per 10 seconds for 20 minutes, centered around each half hour. This does not apply to soil temperature, for which only one instantaneous value is used. The missing 10 minutes between each scanning period were used to restore the humidity sensors (see section 3.1.4). After compiling, mean values and variance were stored. Errors originating from the datalogger are of one or more orders of magnitude smaller than those created by the sensors.

#### 4. EKMAN LAYER MEASUREMENTS

Every third hour a slow-ascent rawinsonde flight was made (ascent rate 150-200 m/minute). The system used was the Vaisala Cora system, which uses the Omega navigation network (for tracking) and Vaisala RS21 sondes. The output, stored on tape, gave pressure, wind, temperature and humidity throughout the troposphere although our main interest was focused on 0-3 km. The vertical resolution of pressure, temperature and humidity is fairly good (~30 m), while for the wind it is unsatisfactory for this application. That is why pibal tracking also was performed (see Bergström & Alexandersson, 1981). The quality of rawinsonde wind-data compared to pibal smoothed data is, however, noticeable good. The RS21 equipment is rather conventional; an aneroid (accuracy  $\pm 1$ mb) for pressure, a bimetal ( $\pm 0.4^\circ$ ) for temperature and a humicap hygrometer ( $\pm 3\%$ ) for relative humidity. The data are presented in diagrams in appendix B, but are also available on magnetic tape on request.

#### 5. OTHER OBSERVATIONS

Hourly synoptic observations were made of the standard elements. Usual routine instruments were used. This information is incorporated in the data tables in appendix A.

#### 6. EXPERIMENTAL PROCEDURES

The GOTEX II experiment was planned to contain 5 consecutive days of measurements. All the personnel and equipment were available only the two first weeks in May and this limited the choice of synoptic situation. In order to capture the typical diurnal cycle, we were anxious to measure in a synoptically undisturbed period, if possible. According to available forecasts May 6-11 was finally decided.

## 7. SYNOPTIC SITUATION

In figure 9 the month preceding the experiment is summarized. Data are taken from the synoptic stations in the vicinity of Klockrike. In the middle of April cold air from the north brought some snow. On April 20 and onwards a high pressure dominated the weather. On April 24 air moved over the Baltic Sea from the east, bringing some heavy rain. This situation persisted for some days. May started with high pressure and rising temperature.

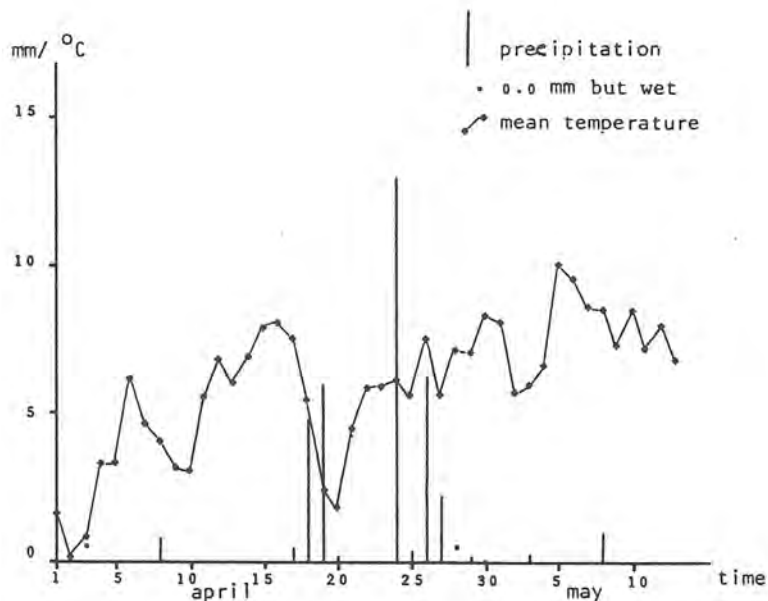


Figure 9

Mean temperature and observed precipitation amounts in April and the beginning of May. The values are representative for the district around Klockrike

On May 6, the start of the experiment, a minor high pressure over the Baltic Sea dominated the district, fig. 10.

The rather inactive front zone off the coast of Norway and a minor low over mid-west Europe move towards the North Sea. As times goes by, the eastern high moves further eastwards still dominating the weather on May 7. The European cyclone activates over Denmark, getting contact with the front from Norway. This low pressure system moves steady northwards, and a first weak occlusion front passes Klockrike around 1000 on May 8, bringing some very light drizzle (0.5 mm). The frontal system is visible in the temperature field some km over Klockrike already in the afternoon the day before (fig. 11),

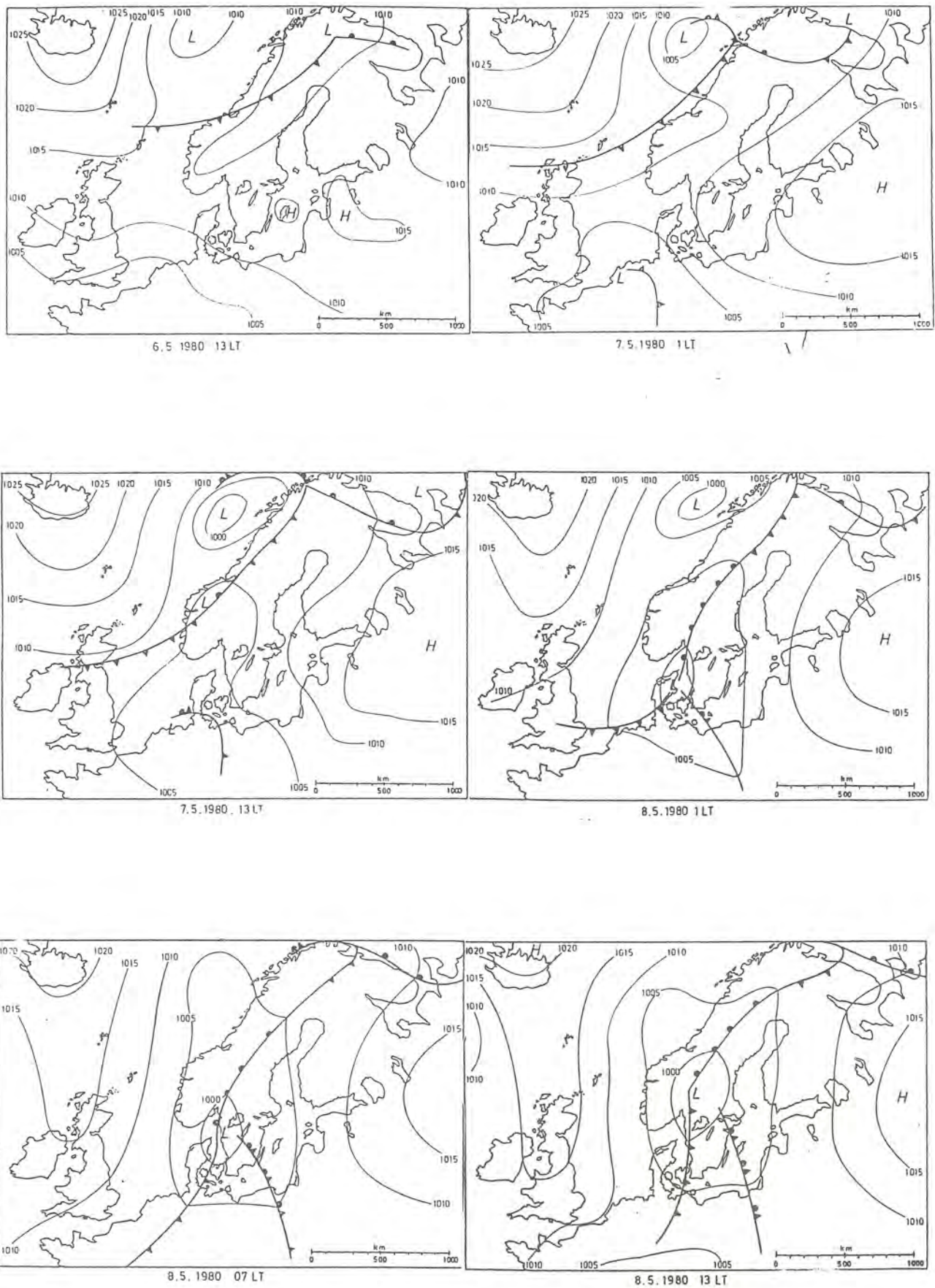


Figure 10

Surface weather maps (By courtesy of Alexandersson & Bergström)

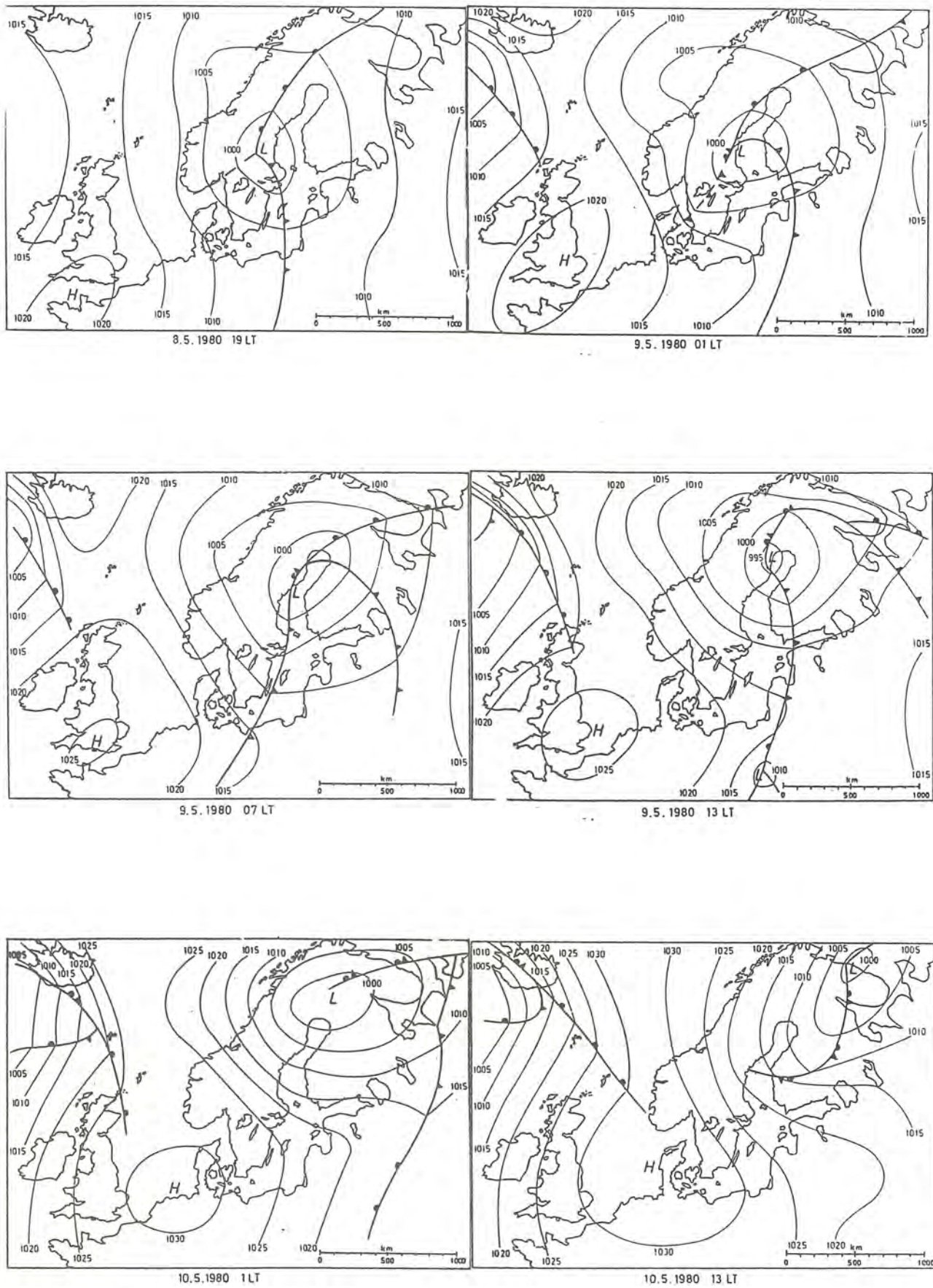


Figure 10  
continuation

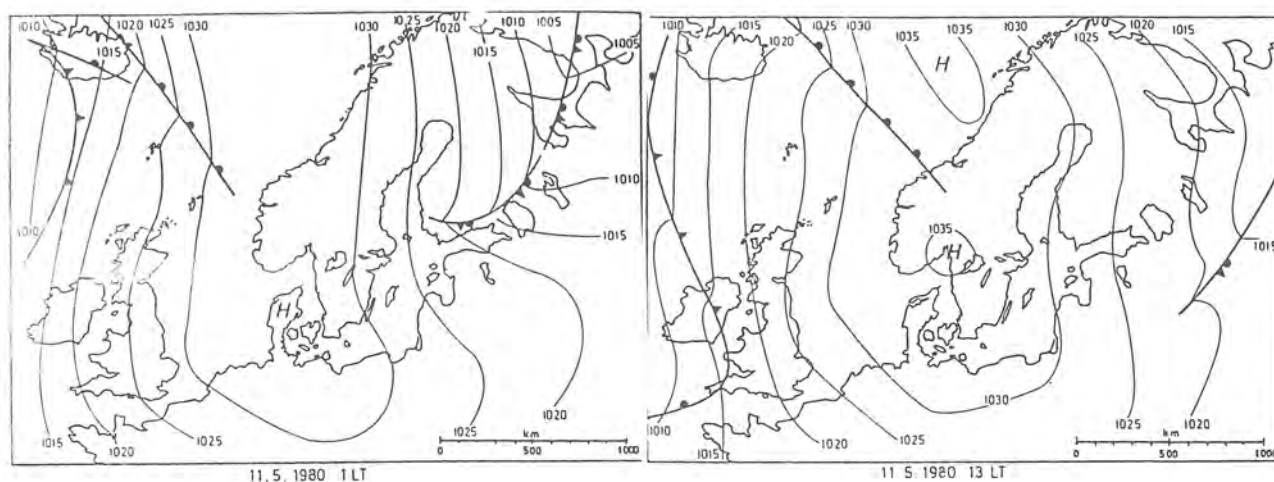


Figure 10  
continuation

During the afternoon it is followed by another cold-front, though rather weak. Some cumulonimbus and light showers show up after the passage at 1615, accompanied by wind wearing. In the early morning, May 9, a marked trough with a pseudo-front passed at 0350. It is not very marked in the temperature field (fig. 11) but the wind changed drastically.

This system brought a lot of snow or rain to southern Sweden during its way northwards. At Klockrike, however, the total amount of rain that fell from all these three system was less than 1 mm. The topography, shown to some extent in fig. 3, often weakens the precipitation in this district (when coming from the south or southwest) by foehn. Meanwhile, a high formed over Great Britain moves towards Scandinavia. The strong north-westerly to northerly winds, which took over behind the northgoing low, gradually weaken. The period ends on May 11 with the high pressure centre near Oslo. Fig. 11, the height-time cross section of rawinsonde temperatures, indicates a subsidence inversion the last two days. It starts at high altitude at noon, May 10, and gradually increases in strength and subsides. On May 11 it is found just above 2 km height.

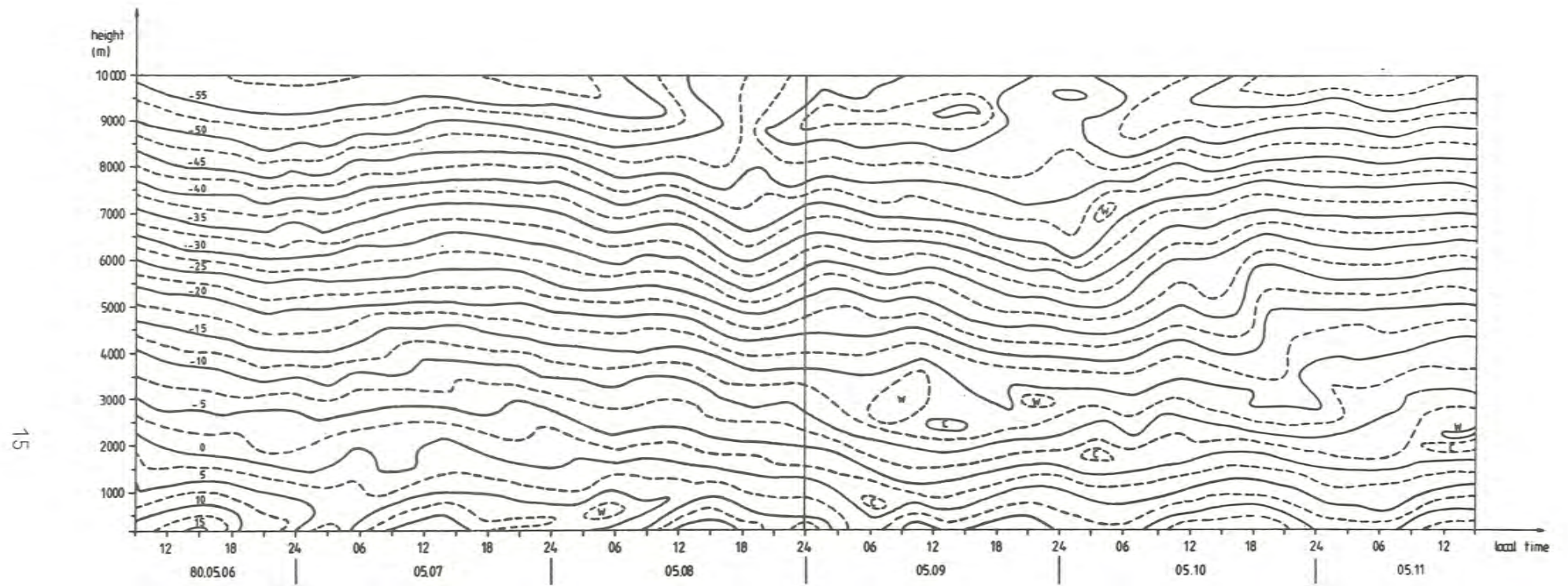


Figure 11

Height-time cross-section of observed temperature (centigrades) over Klockrike

## 8. GEOSTROPHIC WINDS

Geostrophic winds are determined in two ways. The 850mb winds are taken directly from routinely analysed upper-air charts from SMHI. Surface geostrophic winds are determined by fitting

$$P_i = Ax_i + By_i + Cx_i^2 + Dy_i^2 + Ex_i y_i + R_i \quad (2)$$

to 18 routine Swedish synoptic stations, reporting every third hour.  $x_i$  and  $y_i$  are the  $i$ :th stations cartesian coordinates relative Klockrike. By requiring  $\sum_i R_i^2$  to be a minimum, the five coefficients A to E are determined. The geostrophic winds are then calculated from  $\partial p/\partial x$  and  $\partial p/\partial y$  at the centre of the station array.

In fig. 12, the stations used are indicated by  $\odot$ . The radius of influence is 175 km. A couple of the stations do not report pressure at every synoptic term. For those occasions the pressure has been interpolated between earlier and later readings.



Figure 12

Stations used in determining the surface geostrophic winds are indicated by  $\odot$ . Klockrike is denoted  $\otimes$ .

In fig. 13 the surface geostrophic winds and the 850mb geostrophic winds are shown for the whole period.

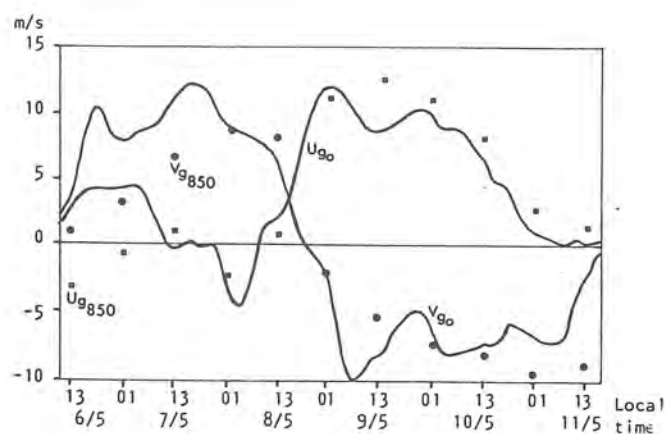


Figure 13

Surface and 850mb geostrophic wind components  $u$  and  $v$

## 9. SOIL PROPERTIES

### 9.1 Properties influencing the heat fluxes

Since the GOTEX II experiment was executed in early May, the autumn-sowed crops are only a few cm high and quite sparse (see also fig. 7). The ground can therefore be considered as bare soil to a first approximation.

The heat flux equation in one dimension can be written

$$C \frac{\partial T}{\partial t} = \frac{\partial}{\partial z} \left( \lambda \frac{\partial T}{\partial z} \right) \quad (3)$$

where  $C$  is heat capacity of the soil, and  $\lambda$  stands for thermal conductivity. To solve eq. (3) one needs to know both  $C$  and  $\lambda$ . They are among other things functions of soil water content.

The heat capacity can be written (de Vries, 1975)

$$C = x_{sm} c_{sm} + x_{so} c_{so} + x_w c_w \quad (4)$$

where  $x$  denotes the volumetric fraction of any matter, subscript  $sm$  denotes minerals,  $so$  organic matter and  $w$  water.

Using values given by de Vries for the different conductivities, eq. (4) reads

$$C = 0.586 \cdot 2.0 \cdot 10^6 + 0.072 \cdot 2.5 \cdot 10^6 + 0.341 \cdot 4.2 \cdot 10^6$$

or

$$C = 2.78 \cdot 10^6 \text{ J/m}^3 \cdot \text{K}$$

The observed values of the fraction of water (maximum) and of organic matter are used. The amount of organic matter is determined by the glowloss method for each samples. These values were fairly constant, 10.8% is the mean relative dry soil for the whole period, and 0.9% the standard deviation.

The overall thermal conductivity of the soil ( $\lambda$ ) can be estimated following de Vries, as summarized in fig. 14. It is found that for  $x_s$  (the volumetric fraction of solid materials) equal to 0.50, and for soil water contents 32.6-34.18% by volume (relevant for May 6-11 at Klockrike)  $\lambda$  equals 1.15-1.17 W/m·K. The 'observed' values of  $x_s$  lie between .601-.588.

To summarize, the two needed soil properties are given as functions of observed maximum and minimum soil water content in table I.

|           | w = 60.94 mm             | w = 58.23 mm             |
|-----------|--------------------------|--------------------------|
| C         | 2.82 J/m <sup>3</sup> ·K | 2.77 J/m <sup>3</sup> ·K |
| $\lambda$ | 1.17 W/m·K               | 1.15 W/m·K               |

Table I

Soil properties as function of observed soil water content

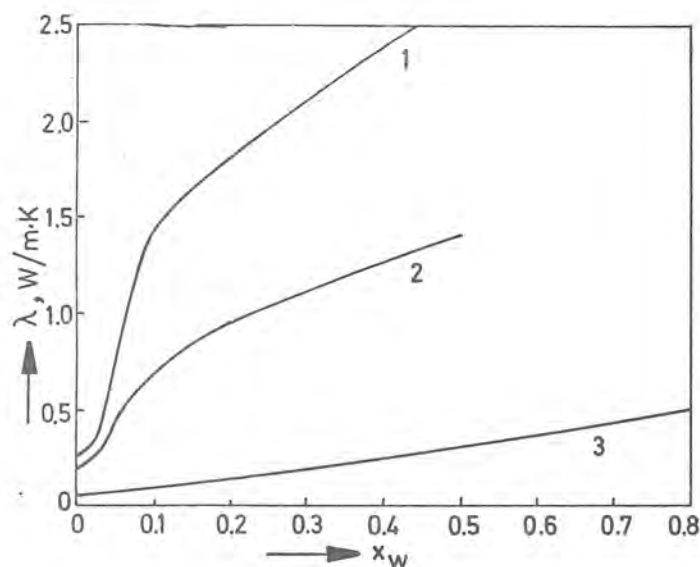


Figure 14

Thermal conductivity,  $\lambda$ , in relation to volumetric soil water content  $x_w$ , at 10°C. Curve 1: quartz sand with  $x_s = 0.55$ . Curve 2: loam with  $x_s = 0.50$ . Curve 3: peat soil with  $x_s = 0.20$ . (After de Vries, 1975)

## 9.2 Properties influencing the water fluxes

Andersson & Wiklert (1972) have presented a comprehensive analysis of water holding characteristics of Swedish soils. Their paper contains data from soils taken at Västerby, 6 km south of the Klockrike site. According to geological maps, both places are situated on the same type of cultivated clay, being a part of the old bottom of the prehistoric Lake Ancylus. In fig. 15 is shown their decomposition of the soil top layer at Västerby, together with the waterholding characteristics.

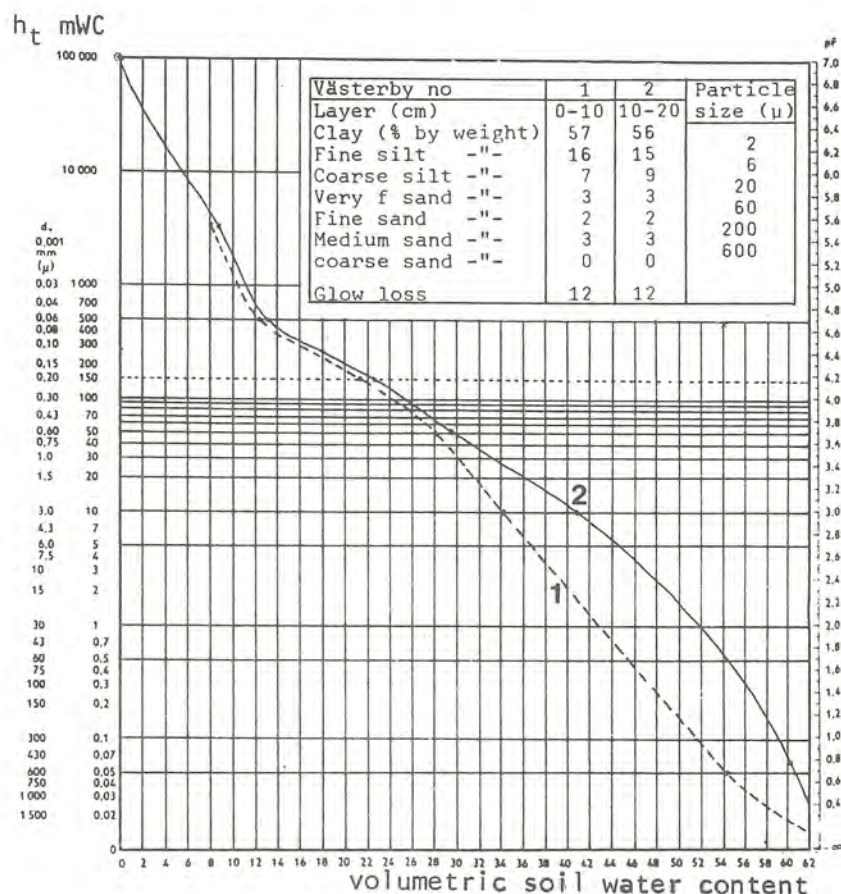


Figure 15 Waterholding characteristics of the Västerby soil. The three vertical scales are 1)  $d_v$  ( $\mu = 0.001$  mm), the equivalent pore diameters, 2) the tension  $h_t$  (metres water column) and 3) the pF-scale.

( $pF = 10 \log h_t$ ). The mechanical composition of the soil is given in the table. It is seen that the curves are nearly diagonal, indicating a log-linear relation.

Curve 1 refers to the layer 0-10 cm, and 2 to 10-20 cm in the soil.  $h_t$  equal to 150 mWC (dashed) indicates the wilting point and  $h_t$  equal to 0 the field capacity, ( $w = 22\%$  and  $\sim 63\%$  by vol. in this case).

The soil contains 56-57% clay, i.e. a rather heavy clay soil. The suction (tension, potential)  $h_t$  set up by the soil is quite large for this specific type of soil.  $h_t$  can be expressed as the sum of matric suction (due to absorptive and capillarity forces) and the osmotic suction, in metres of water column (mWC).  $h_t = 1$  mWC corresponds to 10132 Pa. Another common way of expressing the water holding characteristics is by  $pF = 10 \log h_t$ . At 34% by volume (corresponding to  $w = 60$  mm, representative for the soil during the experiment) fig. 15 gives  $h_t = 20$  mWC (202640 Pa) or  $pF = 3.3$ . The corresponding value of other soils, e.g. more sandy, may differ by one or more orders of magnitude.

### 9.3 Discussion

According to Jackson et al (1973) the drying of a bare, cultivated soil (looking over a few days) occurs in a shallow, few cm deep top layer. Deeper down there is diurnal vertical fluxes of water, but only down to 15-30 cm. How deep this 'static zone' or zero flux level is, depends on the time elapsed since irrigation. This behaviour can partly be explained by the diurnal temperature changes in the soil top layer.

The samples from Klockrike show by visually inspection a marked change by time in upper 2-3 cm, while the lower part of the cores seemed equally moist the whole period. Thus, to answer the question put forward in 3.2.3; the soil water content data presented here represent a relevant integrated measure, at least in a relative sense, for this specific soil. Supposing no water fluxes occur through the bottom of the cores (18 cm deep), all changes in water content come from evaporation or rain. The rate at which the soil lost water during undisturbed conditions can be estimated to 1 mm/day. This is in fair agreement with what can be found in the literature. It also illustrates the rather 'short fetch' of water available for evaporation in this clay soil.

# 10. DETERMINATION OF $z_0$

This was done by extracting neutral or near neutral surface layer profiles. These cases originated mainly from the transition periods between stable and unstable, or vice versa, conditions. By using the logarithmic wind profile.

$$u(z) = \frac{u_*}{\kappa} \ln \left( \frac{z}{z_0} \right)$$

for 1.06, 2.13 and 4.25 metres,  $z_0$  was determined. In figs. 16 and 17 are shown wind direction frequencies and derived  $z_0$ . It is seen, that in the sector  $45-105^\circ$ , the wind profiles are disturbed. This is because of the tower itself and the campers, nearby trees and buildings. In table II the  $z_0$ -estimates are given

| Direction  | $z_0$ (mm) |
|------------|------------|
| 45-105°(E) | 33.2       |
| 105-45°    | 4.4        |

Table II

Estimates of  $z_0$

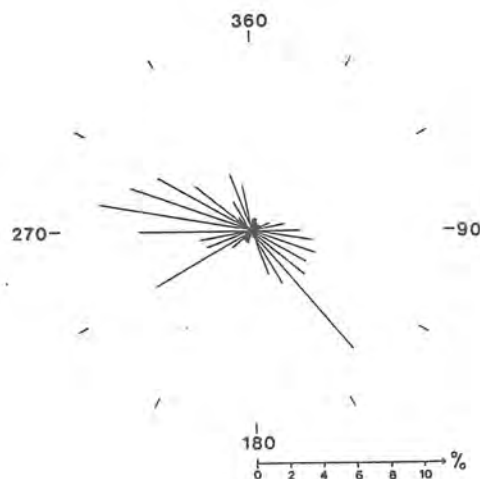
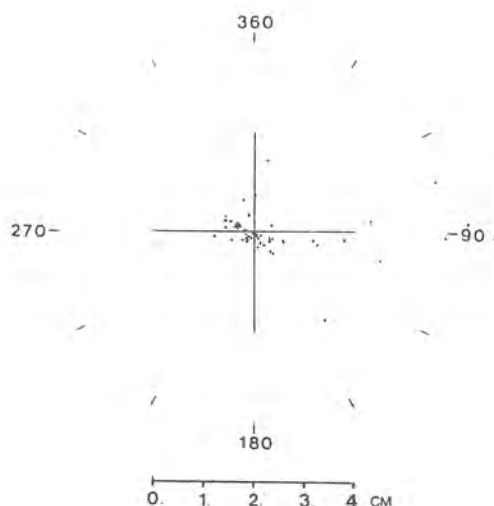


Figure 16

Observed surface wind direction (percentage of time). The unfavorable sector  $45-105^\circ$  is represented in around 10% of the time.



*Figure 17*

*Derived values of  $z_0$ . It is seen that in the sector  $45-105^\circ$  the  $z_0$ -values are rather scattered, indicating the inhomogeneities in those directions.*

#### Acknowledgements

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## APPENDIX A

### Surface Layer Profile Data

The data tables contain data from 1980-05-06 1100 LT to 05-11 1630 LT.

At 05-10 1630 and 1700 data are missed due to power failure.

The tables are divided in SYNOP and PROFILE parts. The SYNOP data (hourly) contain information on total cloudiness (N) in octas and the amount of low clouds. The cloud types are given as conventional abbreviations. Every sixth hour the last 12 hour amount of precipitation is given, and twice a day the soil water content. Pressure at the site (QFE) and reduced to mean sea level (QFF) are deduced using standard procedures. Geostrophic winds, as described in section 3, are given every third hour (surface winds) or every twelfth hour (850mb). Estimated visibility is in kilometers. Weather phenomena, when observed, are given as abbreviations:

|      |    |                                             |
|------|----|---------------------------------------------|
| LI   | DZ | Light drizzle                               |
| MO   | DZ | Moderate drizzle                            |
| DZ   | LH | Drizzle observed during the last hour       |
| RASH | LH | Rain shower observed during the last hour   |
| PRE  | V  | Precipitation visible but not over the site |

The profile tables are self-explaining. The figures between brackets are the variances measured during the 20 minutes of integration.



&gt;&gt;&gt; 80-05-06 1100 LT S Y N O P &lt;&lt;&lt;

PAGE A-01

| CLOUDS |               |        |          |          |   |            |   |
|--------|---------------|--------|----------|----------|---|------------|---|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I | I          | I |
| I      | O/8           | /8     |          |          | I | I          | I |
| I      |               |        |          |          | I |            | I |
| I      | PRESSURE (MB) | I      |          |          | I | VISIBILITY | I |
| I      | QFE           | QFF    | I        |          | I | (KM)       | I |
| I      | 1004.4        | 1012.7 | I        |          | I | >20        | I |

>>> 1100 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 1052.4 (805.5) W/M\*\*2 759.3 ( 4.5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 12.81 ( .20)   | I 2.61 (.003)    | I 1.4 ( .6)      | I 41.4 ( 99.1)       |
| I 8.50     | I 13.00 ( .24)   | I 2.81 (.004)    | I 1.4 ( .6)      | I                    |
| I 4.25     | I 13.04 ( .30)   | I 2.48 (.003)    | I 1.5 ( .6)      | I                    |
| I 2.13     | I 13.34 ( .32)   | I 2.90 (.005)    | I 1.4 ( .5)      | I                    |
| I 1.06     | I 13.69 ( .32)   | I 2.63 (.004)    | I 1.2 ( .5)      | I                    |
| I .00      | I 34.72          | I                |                  |                      |
| I -.02     | I 18.24          | I                |                  |                      |
| I -.05     | I 17.94          | I                |                  |                      |
| I -.10     | I 11.31          | I                |                  |                      |
| I -.23     | I 6.85           | I                |                  |                      |
| I -.51     | I 5.59           | I                |                  |                      |

>>> 1130 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 508.9 ( 52.9) W/M\*\*2 724.9 (168.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 13.38 ( .27)   | I 2.26 (.004)    | I 1.6 ( .8)      | I 85.9 ( 52.4)       |
| I 8.50     | I 13.53 ( .33)   | I 2.42 (.005)    | I 1.5 ( .7)      | I                    |
| I 4.25     | I 13.66 ( .32)   | I 2.18 (.004)    | I 1.5 ( .7)      | I                    |
| I 2.13     | I 13.99 ( .25)   | I 2.54 (.007)    | I 1.5 ( .7)      | I                    |
| I 1.06     | I 14.39 ( .29)   | I 2.29 (.005)    | I 1.3 ( .7)      | I                    |
| I .00      | I 35.56          | I                |                  |                      |
| I -.02     | I 19.57          | I                |                  |                      |
| I -.05     | I 19.07          | I                |                  |                      |
| I -.10     | I 12.17          | I                |                  |                      |
| I -.23     | I 6.93           | I                |                  |                      |
| I -.51     | I 5.62           | I                |                  |                      |

&gt;&gt;&gt; 80-05-06 1200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |               |        |          |          |   |            |   |
|--------|---------------|--------|----------|----------|---|------------|---|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I | I          | I |
| I      | O/8           | /8     |          |          | I | I          | I |
| I      |               |        |          |          | I |            | I |
| I      | PRESSURE (MB) | I      |          |          | I | VISIBILITY | I |
| I      | QFE           | QFF    | I        |          | I | (KM)       | I |
| I      | 1004.0        | 1012.4 | I        |          | I | >20        | I |

>>> 1200 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 527.2 ( 4.0) W/M\*\*2 778.4 ( 1.4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 13.90 ( .23)   | I 2.19 (.003)    | I 1.5 ( .6)      | I 152.3 ( 60.2)      |
| I 8.50     | I 14.10 ( .19)   | I 2.38 (.004)    | I 1.4 ( .6)      | I                    |
| I 4.25     | I 14.18 ( .19)   | I 2.11 (.003)    | I 1.4 ( .6)      | I                    |
| I 2.13     | I 14.43 ( .23)   | I 2.48 (.004)    | I 1.4 ( .6)      | I                    |
| I 1.06     | I 14.78 ( .27)   | I 2.17 (.003)    | I 1.4 ( .9)      | I                    |
| I .00      | I 37.17          | I                |                  |                      |
| I -.02     | I 20.66          | I                |                  |                      |
| I -.05     | I 20.00          | I                |                  |                      |
| I -.10     | I 12.98          | I                |                  |                      |
| I -.23     | I 7.02           | I                |                  |                      |
| I -.51     | I 5.63           | I                |                  |                      |

>>> 1230 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 521.1 ( 6.7) W/M\*\*2 770.6 ( 1.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 14.83 ( .34)   | I 2.33 (.006)    | I 1.4 ( .8)      | I 78.3 ( 97.9)       |
| I 8.50     | I 15.07 ( .31)   | I 2.54 (.007)    | I 1.3 ( .6)      | I                    |
| I 4.25     | I 15.18 ( .39)   | I 2.27 (.005)    | I 1.3 ( .7)      | I                    |
| I 2.13     | I 15.42 ( .41)   | I 2.64 (.007)    | I 1.3 ( .7)      | I                    |
| I 1.06     | I 15.76 ( .45)   | I 2.33 (.006)    | I 1.3 ( .8)      | I                    |
| I .00      | I 37.87          | I                |                  |                      |
| I -.02     | I 21.82          | I                |                  |                      |
| I -.05     | I 20.85          | I                |                  |                      |
| I -.10     | I 13.74          | I                |                  |                      |
| I -.23     | I 7.15           | I                |                  |                      |
| I -.51     | I 5.63           | I                |                  |                      |

| I               |  | CLOUDS        |          |            |           | I            |              | PRECIPITATION |   | I       |  |
|-----------------|--|---------------|----------|------------|-----------|--------------|--------------|---------------|---|---------|--|
| I N             |  | LOW           | MID-HIGH |            | BASE (M)  |              | I SINCE 01LT |               | I |         |  |
| I 0/8           |  | /8            |          |            |           |              | I (MM)       |               | I |         |  |
| I               |  |               |          |            |           |              |              |               |   |         |  |
| I PRESSURE (MB) |  | I GEOSTROPHIC |          | WIND (M/S) |           | I VISIBILITY |              | I             |   | WEATHER |  |
| I QFE           |  | QFF           | I UG     | VG         | UG-850-VG |              | I (KM)       |               |   |         |  |
| I 1003.5        |  | 1011.8        | I 3.2    | 6.1        | -3.5      | .9           | I >20        |               | I |         |  |

```

----->>> 1300 LT      P R O F I L E S      <<<-----
              NET RADIATION      GLOBAL RADIATION
504.7 ( 2.3) W/M**2      752.2 ( 3.1) W/M**2

```

| HEIGHT (M) |       | TEMP.(DEG.CENTG) |             | MIX.RATIO (G/KG) |             | WIND SPEED (M/S) |          | WIND DIRECTION (DEG) |             |
|------------|-------|------------------|-------------|------------------|-------------|------------------|----------|----------------------|-------------|
| I          | 17.00 | I                | 14.81 (.23) | I                | 2.30 (.002) | I                | 1.7 (.7) | I                    | 96.1 (54.5) |
| I          | 8.50  | I                | 15.07 (.25) | I                | 2.48 (.003) | I                | 1.6 (.7) | I                    |             |
| I          | 4.25  | I                | 15.23 (.33) | I                | 2.24 (.002) | I                | 1.5 (.6) | I                    |             |
| I          | 2.13  | I                | 15.60 (.31) | I                | 2.63 (.004) | I                | 1.4 (.6) | I                    |             |
| I          | 1.06  | I                | 15.99 (.35) | I                | 2.35 (.003) | I                | 1.3 (.5) | I                    |             |
| I          | .00   | I                | 38.15       | I                |             |                  |          |                      |             |
| I          | -.02  | I                | 22.71       | I                |             |                  |          |                      |             |
| I          | -.05  | I                | 21.46       | I                |             |                  |          |                      |             |
| I          | -.10  | I                | 14.44       | I                |             |                  |          |                      |             |
| I          | -.23  | I                | 7.28        | I                |             |                  |          |                      |             |
| I          | -.51  | I                | 5.63        | I                |             |                  |          |                      |             |

```
----->>> 1330 LT      P R O F I L E S      <<<-----
          NET RADIATION      GLOBAL RADIATION
          481.6 ( 11.8) W/M**2      721.0 ( 9.8) W/M**2
```

| HEIGHT (M) |       | TEMP. (DEG. CENTG) |             | MIX. RATIO (G/KG) |             | WIND SPEED (M/S) |          | WIND DIRECTION (DEG) |              |
|------------|-------|--------------------|-------------|-------------------|-------------|------------------|----------|----------------------|--------------|
| I          | 17.00 | I                  | 15.20 (.22) | I                 | 2.43 (.002) | I                | 1.3 (.7) | I                    | 106.6 (85.4) |
| I          | 8.50  | I                  | 15.40 (.20) | I                 | 2.59 (.002) | I                | 1.2 (.6) | I                    |              |
| I          | 4.25  | I                  | 15.50 (.25) | I                 | 2.40 (.002) | I                | 1.2 (.7) | I                    |              |
| I          | 2.13  | I                  | 15.72 (.30) | I                 | 2.72 (.004) | I                | 1.2 (.7) | I                    |              |
| I          | 1.06  | I                  | 16.05 (.34) | I                 | 2.48 (.003) | I                | 1.2 (.6) | I                    |              |
| I          | .00   | I                  | 37.23       | I                 |             |                  |          |                      |              |
| I          | -.02  | I                  | 23.11       | I                 |             |                  |          |                      |              |
| I          | -.05  | I                  | 21.74       | I                 |             |                  |          |                      |              |
| I          | -.10  | I                  | 15.05       | I                 |             |                  |          |                      |              |
| I          | -.23  | I                  | 7.43        | I                 |             |                  |          |                      |              |
| I          | -.51  | I                  | 5.63        | I                 |             |                  |          |                      |              |

>>> 80-05-06 1400 LT S Y N O P <<<

|   |               |        |          |          |   |            |   |         |
|---|---------------|--------|----------|----------|---|------------|---|---------|
| I |               | CLOUDS |          |          | I |            |   |         |
| I | N             | LOW    | MID-HIGH | BASE (M) | I |            |   |         |
| I | 1/8           | 1/8 CU |          | 2000     | I |            |   |         |
| I |               |        |          |          | I |            |   |         |
| I | PRESSURE (MB) | I      |          |          | I | VISIBILITY | I | WEATHER |
| I | QFE           | OFF    | I        |          | I | (KM)       | I |         |
| I | 1002.9        | 1011.2 | I        |          | I | >20        | I |         |

```

----->>> 1400 LT P R O F I L E S <<<-----
          NET RADIATION      GLOBAL RADIATION
          450.5 ( 5.6) W/M**2      682.5 ( 8.1) W/M**2

```

| HEIGHT (M) |       | TEMP. (DEG. CENTG) |             | MIX. RATIO (G/KG) |             | WIND SPEED (M/S) |          | WIND DIRECTION (DEG) |               |
|------------|-------|--------------------|-------------|-------------------|-------------|------------------|----------|----------------------|---------------|
| I          | 17.00 | I                  | 15.70 (.31) | I                 | 2.61 (.006) | I                | 1.6 (.8) | I                    | 249.8 (297.1) |
| I          | 8.50  | I                  | 15.91 (.31) | I                 | 2.86 (.006) | I                | 1.7 (.8) | I                    |               |
| I          | 4.25  | I                  | 16.01 (.33) | I                 | 2.62 (.005) | I                | 1.7 (.8) | I                    |               |
| I          | 2.13  | I                  | 16.28 (.49) | I                 | 3.03 (.007) | I                | 1.7 (.8) | I                    |               |
| I          | 1.06  | I                  | 16.66 (.56) | I                 | 2.75 (.007) | I                | 1.6 (.7) | I                    |               |
| I          | .00   | I                  | 35.82       | I                 |             |                  |          |                      |               |
| I          | -.02  | I                  | 23.50       | I                 |             |                  |          |                      |               |
| I          | -.05  | I                  | 22.10       | I                 |             |                  |          |                      |               |
| I          | -.10  | I                  | 15.60       | I                 |             |                  |          |                      |               |
| I          | -.23  | I                  | 7.61        | I                 |             |                  |          |                      |               |
| I          | -.51  | I                  | 5.64        | I                 |             |                  |          |                      |               |

----->>> 1430 LT P R O F I L E S <<<-----  
NET RADIATION GLOBAL RADIATION  
420.7 ( 8.4 ) W/M\*\*2 638.6 ( 9.9 ) W/M\*\*2

| HEIGHT (M) |       | TEMP. (DEG. CENTG) |              | MIX. RATIO (G/KG) |             | WIND SPEED (M/S) |           | WIND DIRECTION (DEG) |              |
|------------|-------|--------------------|--------------|-------------------|-------------|------------------|-----------|----------------------|--------------|
| I          | 17.00 | I                  | 15.79 ( .19) | I                 | 2.83 (.002) | I                | 1.9 (1.0) | I                    | 53.8 (106.0) |
| I          | 8.50  | I                  | 15.98 ( .17) | I                 | 3.04 (.003) | I                | 1.8 (1.0) | I                    |              |
| I          | 4.25  | I                  | 16.05 ( .24) | I                 | 2.80 (.002) | I                | 1.7 (1.0) | I                    |              |
| I          | 2.13  | I                  | 16.35 ( .35) | I                 | 3.18 (.004) | I                | 1.7 ( .9) | I                    |              |
| I          | 1.06  | I                  | 16.78 ( .42) | I                 | 2.95 (.003) | I                | 1.6 ( .9) | I                    |              |
| I          | .00   | I                  | 34.45        | I                 |             |                  |           |                      |              |
| I          | -.02  | I                  | 23.62        | I                 |             |                  |           |                      |              |
| I          | -.05  | I                  | 22.08        | I                 |             |                  |           |                      |              |
| I          | -.10  | I                  | 16.06        | I                 |             |                  |           |                      |              |
| I          | -.23  | I                  | 7.78         | I                 |             |                  |           |                      |              |
| I          | -.51  | I                  | 5.64         | I                 |             |                  |           |                      |              |

|   |               |        |          |          |            |   |
|---|---------------|--------|----------|----------|------------|---|
| I | CLOUDS        |        |          | I        | I          | I |
| I | N             | LOW    | MID-HIGH | BASE (M) | I          | I |
| I | 1/8           | 1/8 CU |          | 2000     | I          | I |
| I | -----         |        |          | -----    | -----      | I |
| I | PRESSURE (MB) |        |          | I        | VISIBILITY | I |
| I | QFE           | QFF    | I        | (KM)     | I          | I |
| I | 1002.5        | 1010.7 | I        | >20      | I          | I |

----->>> 1500 LT P R O F I L E S <<<-----  
NET RADIATION GLOBAL RADIATION  
378.4 ( 8.2) W/M\*\*2 585.8 ( 10.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 15.99 ( .21)   | I 2.87 (.003)    | I 2.3 ( .8)      | I 72.3 ( 37.8) I     |
| I 8.50     | I 16.17 ( .21)   | I 3.02 (.002)    | I 2.1 ( .8)      | I                    |
| I 4.25     | I 16.34 ( .26)   | I 2.84 (.003)    | I 2.0 ( .8)      | I                    |
| I 2.13     | I 16.73 ( .26)   | I 3.17 (.003)    | I 2.0 ( .8)      | I                    |
| I 1.06     | I 17.08 ( .29)   | I 2.97 (.003)    | I 1.8 ( .7)      | I                    |
| I .00      | I 29.09          | I                |                  |                      |
| I -.02     | I 22.43          | I                |                  |                      |
| I -.05     | I 21.50          | I                |                  |                      |
| I -.10     | I 16.37          | I                |                  |                      |
| I -.23     | I 7.97           | I                |                  |                      |
| I -.51     | I 5.63           | I                |                  |                      |

----->>> 1530 LT P R O F I L E S <<<-----  
NET RADIATION GLOBAL RADIATION  
324.7 ( 10.6) W/M\*\*2 525.1 ( 11.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 16.34 ( .20)   | I 3.08 (.002)    | I 2.4 ( .6)      | I 104.4 ( 47.2) I    |
| I 8.50     | I 16.52 ( .20)   | I 3.22 (.002)    | I 2.3 ( .6)      | I                    |
| I 4.25     | I 16.64 ( .24)   | I 2.99 (.002)    | I 2.2 ( .6)      | I                    |
| I 2.13     | I 16.99 ( .25)   | I 3.35 (.003)    | I 2.1 ( .7)      | I                    |
| I 1.06     | I 17.39 ( .27)   | I 3.16 (.003)    | I 2.0 ( .7)      | I                    |
| I .00      | I 28.55          | I                |                  |                      |
| I -.02     | I 22.13          | I                |                  |                      |
| I -.05     | I 21.14          | I                |                  |                      |
| I -.10     | I 16.53          | I                |                  |                      |
| I -.23     | I 8.18           | I                |                  |                      |
| I -.51     | I 5.64           | I                |                  |                      |

&gt;&gt;&gt; 80-05-06 1600 LT S Y N O P &lt;&lt;&lt;

|   |               |        |          |          |                        |   |
|---|---------------|--------|----------|----------|------------------------|---|
| I | CLOUDS        |        |          | I        | I                      | I |
| I | N             | LOW    | MID-HIGH | BASE (M) | I                      | I |
| I | 1/8           | 1/8 CU |          | 2000     | I                      | I |
| I | -----         |        |          | -----    | -----                  | I |
| I | PRESSURE (MB) |        |          | I        | GEOSTROPHIC WIND (M/S) | I |
| I | QFE           | QFF    | I        | UG       | VG                     | I |
| I | 1001.7        | 1010.0 | I        | 4.1      | 9.2                    | I |

----->>> 1600 LT P R O F I L E S <<<-----  
NET RADIATION GLOBAL RADIATION  
274.5 ( 11.3) W/M\*\*2 462.0 ( 12.4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 16.48 ( .21)   | I 3.18 (.002)    | I 2.3 ( .9)      | I 91.2 ( 29.0) I     |
| I 8.50     | I 16.66 ( .18)   | I 3.29 (.002)    | I 2.3 ( .9)      | I                    |
| I 4.25     | I 16.74 ( .23)   | I 3.07 (.002)    | I 2.2 ( .9)      | I                    |
| I 2.13     | I 17.08 ( .25)   | I 3.42 (.003)    | I 2.1 ( .9)      | I                    |
| I 1.06     | I 17.41 ( .32)   | I 3.26 (.003)    | I 1.9 ( .8)      | I                    |
| I .00      | I 27.06          | I                |                  |                      |
| I -.02     | I 22.11          | I                |                  |                      |
| I -.05     | I 20.80          | I                |                  |                      |
| I -.10     | I 16.60          | I                |                  |                      |
| I -.23     | I 8.37           | I                |                  |                      |
| I -.51     | I 5.63           | I                |                  |                      |

----->>> 1630 LT P R O F I L E S <<<-----  
NET RADIATION GLOBAL RADIATION  
218.1 ( 11.3) W/M\*\*2 396.5 ( 13.4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 16.51 ( .15)   | I 3.05 (.002)    | I 2.5 ( .8)      | I 82.9 ( 20.0) I     |
| I 8.50     | I 16.70 ( .12)   | I 3.17 (.002)    | I 2.4 ( .8)      | I                    |
| I 4.25     | I 16.77 ( .18)   | I 3.00 (.002)    | I 2.3 ( .8)      | I                    |
| I 2.13     | I 17.10 ( .21)   | I 3.31 (.003)    | I 2.2 ( .8)      | I                    |
| I 1.06     | I 17.38 ( .24)   | I 3.17 (.002)    | I 2.1 ( .7)      | I                    |
| I .00      | I 25.12          | I                |                  |                      |
| I -.02     | I 21.69          | I                |                  |                      |
| I -.05     | I 20.24          | I                |                  |                      |
| I -.10     | I 16.63          | I                |                  |                      |
| I -.23     | I 8.57           | I                |                  |                      |
| I -.51     | I 5.64           | I                |                  |                      |

&gt;&gt;&gt; 80-05-06 1700 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS            |     |        |          |                |   |             |   |
|-------------------|-----|--------|----------|----------------|---|-------------|---|
| I                 | N   | LOW    | MID-HIGH | BASE (M)       | I | I           | I |
| I                 | 1/8 | 1/8 CU |          | 2000           | I | I           | I |
| I PRESSURE (MB) I |     |        |          | I VISIBILITY I |   | I WEATHER I |   |
| I QFE QFF I       |     |        |          | I (KM) I       |   | I           |   |
| I 1001.2 1009.5 I |     |        |          | I >20 I        |   | I           |   |

&gt;&gt;&gt; 1700 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
159.1 ( 12.0) W/M\*\*2 326.9 ( 13.5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 16.34 ( .48)   | I 3.02 (.002)    | I 2.6 ( .5)      | I 59.2 ( 16.9)       |
| I 8.50     | I 16.51 ( .51)   | I 3.09 (.003)    | I 2.4 ( .6)      | I                    |
| I 4.25     | I 16.62 ( .52)   | I 3.00 (.003)    | I 2.3 ( .7)      | I                    |
| I 2.13     | I 16.91 ( .50)   | I 3.31 (.005)    | I 2.2 ( .7)      | I                    |
| I 1.06     | I 17.16 ( .70)   | I 3.16 (.004)    | I 2.1 ( .7)      | I                    |
| I .00      | I 22.40          | I                |                  |                      |
| I -.02     | I 20.84          | I                |                  |                      |
| I -.05     | I 19.50          | I                |                  |                      |
| I -.10     | I 16.55          | I                |                  |                      |
| I -.23     | I 8.76           | I                |                  |                      |
| I -.51     | I 5.64           | I                |                  |                      |

&gt;&gt;&gt; 1730 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
102.2 ( 11.0) W/M\*\*2 257.3 ( 13.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 16.45 ( .14)   | I 3.18 (.003)    | I 3.5 ( .5)      | I 73.9 ( 8.8)        |
| I 8.50     | I 16.62 ( .08)   | I 3.22 (.003)    | I 3.2 ( .6)      | I                    |
| I 4.25     | I 16.74 ( .10)   | I 3.16 (.003)    | I 3.0 ( .7)      | I                    |
| I 2.13     | I 16.96 ( .10)   | I 3.39 (.004)    | I 2.9 ( .6)      | I                    |
| I 1.06     | I 17.22 ( .11)   | I 3.30 (.003)    | I 2.5 ( .6)      | I                    |
| I .00      | I 20.61          | I                |                  |                      |
| I -.02     | I 19.90          | I                |                  |                      |
| I -.05     | I 18.73          | I                |                  |                      |
| I -.10     | I 16.40          | I                |                  |                      |
| I -.23     | I 8.95           | I                |                  |                      |
| I -.51     | I 5.64           | I                |                  |                      |

&gt;&gt;&gt; 80-05-06 1800 LT S Y N O P &lt;&lt;&lt;

| CLOUDS            |     |        |          |                |   | SOILWATER I |             |
|-------------------|-----|--------|----------|----------------|---|-------------|-------------|
| I                 | N   | LOW    | MID-HIGH | BASE (M)       | I | I           | CONTENT I   |
| I                 | 1/8 | 1/8 CU |          | 2000           | I | I           | 60.76 (MM)I |
| I PRESSURE (MB) I |     |        |          | I VISIBILITY I |   | I WEATHER I |             |
| I QFE QFF I       |     |        |          | I (KM) I       |   | I           |             |
| I 1001.0 1009.3 I |     |        |          | I >20 I        |   | I           |             |

&gt;&gt;&gt; 1800 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
46.4 ( 11.0) W/M\*\*2 186.5 ( 14.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 15.98 ( .11)   | I 3.92 (.007)    | I 4.9 ( .8)      | I 78.5 ( 9.0)        |
| I 8.50     | I 16.13 ( .05)   | I 3.93 (.007)    | I 3.9 ( .7)      | I                    |
| I 4.25     | I 16.23 ( .08)   | I 3.87 (.007)    | I 4.0 ( .9)      | I                    |
| I 2.13     | I 16.38 ( .09)   | I 4.07 (.007)    | I 3.6 ( .9)      | I                    |
| I 1.06     | I 16.54 ( .11)   | I 3.94 (.007)    | I 3.1 ( .8)      | I                    |
| I .00      | I 18.72          | I                |                  |                      |
| I -.02     | I 18.75          | I                |                  |                      |
| I -.05     | I 17.75          | I                |                  |                      |
| I -.10     | I 16.13          | I                |                  |                      |
| I -.23     | I 9.10           | I                |                  |                      |
| I -.51     | I 5.64           | I                |                  |                      |

&gt;&gt;&gt; 1830 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
-7.7 ( 10.0) W/M\*\*2 121.3 ( 11.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 15.43 ( .27)   | I 4.26 (.003)    | I 6.7 ( .8)      | I 140.9 ( 6.3)       |
| I 8.50     | I 15.56 ( .27)   | I 4.24 (.003)    | I 5.8 (1.0)      | I                    |
| I 4.25     | I 15.65 ( .27)   | I 4.18 (.003)    | I 6.1 (1.0)      | I                    |
| I 2.13     | I 15.73 ( .29)   | I 4.36 (.003)    | I 5.7 (1.1)      | I                    |
| I 1.06     | I 15.81 ( .32)   | I 4.21 (.003)    | I 5.2 (1.0)      | I                    |
| I .00      | I 16.99          | I                |                  |                      |
| I -.02     | I 17.58          | I                |                  |                      |
| I -.05     | I 16.87          | I                |                  |                      |
| I -.10     | I 15.81          | I                |                  |                      |
| I -.23     | I 9.25           | I                |                  |                      |
| I -.51     | I 5.64           | I                |                  |                      |

| CLOUDS        |        |          |                        |     | PRESIPITATION |   |         |
|---------------|--------|----------|------------------------|-----|---------------|---|---------|
| I N           | LOW    | MID-HIGH | BASE (M)               | I   | SINCE 07LT    | I |         |
| I 2/8         | /8     | AC CS    | 3000                   | I   | (MM)          | I |         |
| I             |        |          |                        | I   |               | I |         |
| PRESSURE (MB) |        |          | GEOSTROPHIC WIND (M/S) |     | VISIBILITY    |   | WEATHER |
| I             | QFE    | QFF      | I                      | UG  | VG            | I | (KM)    |
| I             | 1001.0 | 1009.4   | I                      | 4.1 | 10.6          | I | >20     |

>>> 1900 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -56.7 ( 8.3) W/M\*\*2 65.1 ( 10.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 14.29 ( .22)   | I 4.19 (.001)    | I 6.9 ( .6)      | I 142.8 ( 6.1)       |
| I 8.50     | I 14.34 ( .20)   | I 4.15 (.001)    | I 5.9 ( .9)      | I                    |
| I 4.25     | I 14.36 ( .22)   | I 4.09 (.001)    | I 6.2 ( .9)      | I                    |
| I 2.13     | I 14.36 ( .23)   | I 4.27 (.001)    | I 5.8 ( .9)      | I                    |
| I 1.06     | I 14.34 ( .25)   | I 4.10 (.001)    | I 5.3 ( .9)      | I                    |
| I .00      | I 14.84          | I                |                  |                      |
| I -.02     | I 16.27          | I                |                  |                      |
| I -.05     | I 15.93          | I                |                  |                      |
| I -.10     | I 15.45          | I                |                  |                      |
| I -.23     | I 9.42           | I                |                  |                      |
| I -.51     | I 5.67           | I                |                  |                      |

>>> 1930 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -89.6 ( 4.2) W/M\*\*2 22.3 ( 7.0) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 13.23 ( .19)   | I 4.05 (.002)    | I 6.3 ( .9)      | I 141.8 ( 6.1)       |
| I 8.50     | I 13.23 ( .21)   | I 4.04 (.002)    | I 5.7 (1.0)      | I                    |
| I 4.25     | I 13.14 ( .24)   | I 3.94 (.002)    | I 5.2 ( .9)      | I                    |
| I 2.13     | I 13.08 ( .26)   | I 4.12 (.002)    | I 4.6 (1.0)      | I                    |
| I 1.06     | I 13.00 ( .28)   | I 3.94 (.002)    | I 4.1 ( .9)      | I                    |
| I .00      | I 12.96          | I                |                  |                      |
| I -.02     | I 14.98          | I                |                  |                      |
| I -.05     | I 15.00          | I                |                  |                      |
| I -.10     | I 15.03          | I                |                  |                      |
| I -.23     | I 9.56           | I                |                  |                      |
| I -.51     | I 5.69           | I                |                  |                      |

&gt;&gt;&gt; 80-05-06 2000 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |        |          |                        |     | PRESIPITATION |   |         |
|---------------|--------|----------|------------------------|-----|---------------|---|---------|
| I N           | LOW    | MID-HIGH | BASE (M)               | I   | SINCE 07LT    | I |         |
| I 1/8         | /8     | CS       |                        | I   | (MM)          | I |         |
| I             |        |          |                        | I   |               | I |         |
| PRESSURE (MB) |        |          | GEOSTROPHIC WIND (M/S) |     | VISIBILITY    |   | WEATHER |
| I             | QFE    | QFF      | I                      | UG  | VG            | I | (KM)    |
| I             | 1001.4 | 1009.9   | I                      | 4.1 | 10.6          | I | >20     |

>>> 2000 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -101.5 ( 1.0) W/M\*\*2 2.4 ( 2.0) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 12.28 ( .17)   | I 4.03 (.002)    | I 5.5 ( .6)      | I 136.6 ( 6.0)       |
| I 8.50     | I 12.22 ( .17)   | I 4.03 (.002)    | I 5.0 ( .6)      | I                    |
| I 4.25     | I 12.09 ( .17)   | I 3.91 (.002)    | I 4.6 ( .6)      | I                    |
| I 2.13     | I 11.96 ( .17)   | I 4.11 (.002)    | I 4.1 ( .6)      | I                    |
| I 1.06     | I 11.82 ( .17)   | I 3.91 (.002)    | I 3.7 ( .6)      | I                    |
| I .00      | I 11.33          | I                |                  |                      |
| I -.02     | I 13.74          | I                |                  |                      |
| I -.05     | I 14.10          | I                |                  |                      |
| I -.10     | I 14.57          | I                |                  |                      |
| I -.23     | I 9.66           | I                |                  |                      |
| I -.51     | I 5.69           | I                |                  |                      |

>>> 2030 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -102.8 ( .6) W/M\*\*2 -2.2 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 11.25 ( .23)   | I 3.95 (.002)    | I 4.5 ( .6)      | I 128.9 ( 5.9)       |
| I 8.50     | I 11.02 ( .32)   | I 3.94 (.003)    | I 3.8 ( .6)      | I                    |
| I 4.25     | I 10.73 ( .39)   | I 3.78 (.003)    | I 3.4 ( .5)      | I                    |
| I 2.13     | I 10.51 ( .43)   | I 3.98 (.003)    | I 2.9 ( .5)      | I                    |
| I 1.06     | I 10.30 ( .45)   | I 3.74 (.003)    | I 2.5 ( .5)      | I                    |
| I .00      | I 9.86           | I                |                  |                      |
| I -.02     | I 12.71          | I                |                  |                      |
| I -.05     | I 13.26          | I                |                  |                      |
| I -.10     | I 14.09          | I                |                  |                      |
| I -.23     | I 9.75           | I                |                  |                      |
| I -.51     | I 5.71           | I                |                  |                      |

| CLOUDS            |    |     |          |                |   |             |   |
|-------------------|----|-----|----------|----------------|---|-------------|---|
| I                 | N  | LOW | MID-HIGH | BASE (M)       | I | I           | I |
| I 1/8             | /8 |     | CS       |                | I | I           | I |
| I PRESSURE (MB) I |    |     |          | I VISIBILITY I |   | I WEATHER I |   |
| I QFE QFF I       |    |     |          | I (KM) I       |   | I I         |   |
| I 1001.5 1010.1 I |    |     |          | I >20 I        |   | I I         |   |

## &gt;&gt;&gt; 2100 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
 -99.6 ( .5) W/M\*\*2 -3.0 ( .3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 10.39 ( .14)   | I 3.93 (.002)    | I 4.5 ( .3)      | I 119.1 ( 5.9) I     |
| I 8.50     | I 9.94 ( .19)    | I 3.95 (.002)    | I 3.8 ( .3)      | I I                  |
| I 4.25     | I 9.40 ( .18)    | I 3.77 (.002)    | I 3.2 ( .3)      | I I                  |
| I 2.13     | I 9.03 ( .15)    | I 3.98 (.002)    | I 2.6 ( .3)      | I I                  |
| I 1.06     | I 8.80 ( .13)    | I 3.70 (.003)    | I 2.2 ( .3)      | I I                  |
| I .00      | I 8.47           | I                |                  |                      |
| I -.02     | I 11.74          | I                |                  |                      |
| I -.05     | I 12.43          | I                |                  |                      |
| I -.10     | I 13.58          | I                |                  |                      |
| I -.23     | I 9.80           | I                |                  |                      |
| I -.51     | I 5.71           | I                |                  |                      |

## &gt;&gt;&gt; 2130 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
 -97.4 ( .4) W/M\*\*2 -3.2 ( .3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 9.82 ( .10)    | I 3.92 (.001)    | I 4.4 ( .4)      | I 134.2 ( 7.0) I     |
| I 8.50     | I 9.45 ( .09)    | I 3.96 (.001)    | I 3.7 ( .4)      | I I                  |
| I 4.25     | I 8.98 ( .14)    | I 3.80 (.001)    | I 3.2 ( .3)      | I I                  |
| I 2.13     | I 8.61 ( .15)    | I 3.97 (.001)    | I 2.6 ( .3)      | I I                  |
| I 1.06     | I 8.34 ( .14)    | I 3.73 (.001)    | I 2.2 ( .3)      | I I                  |
| I .00      | I 7.72           | I                |                  |                      |
| I -.02     | I 10.92          | I                |                  |                      |
| I -.05     | I 11.68          | I                |                  |                      |
| I -.10     | I 13.06          | I                |                  |                      |
| I -.23     | I 9.82           | I                |                  |                      |
| I -.51     | I 5.71           | I                |                  |                      |

## &gt;&gt;&gt; 80-05-06 2200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS            |    |     |          |                            |   |                |   |
|-------------------|----|-----|----------|----------------------------|---|----------------|---|
| I                 | N  | LOW | MID-HIGH | BASE (M)                   | I | I              | I |
| I 1/8             | /8 |     | CS       |                            | I | I              | I |
| I PRESSURE (MB) I |    |     |          | I GEOSTROPHIC WIND (M/S) I |   | I VISIBILITY I |   |
| I QFE QFF I       |    |     |          | I UG VG I                  |   | I (KM) I       |   |
| I 1001.9 1010.5 I |    |     |          | I 4.1 9.0 I                |   | I >20 I        |   |

## &gt;&gt;&gt; 2200 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
 -95.8 ( .8) W/M\*\*2 -2.4 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 9.05 ( .16)    | I 3.89 (.002)    | I 3.3 ( .3)      | I 138.3 ( 4.3) I     |
| I 8.50     | I 8.62 ( .21)    | I 3.89 (.002)    | I 2.8 ( .2)      | I I                  |
| I 4.25     | I 7.81 ( .43)    | I 3.62 (.003)    | I 2.4 ( .2)      | I I                  |
| I 2.13     | I 7.04 ( .61)    | I 3.72 (.004)    | I 1.8 ( .2)      | I I                  |
| I 1.06     | I 6.67 ( .63)    | I 3.41 (.003)    | I 1.4 ( .2)      | I I                  |
| I .00      | I 6.79           | I                |                  |                      |
| I -.02     | I 10.21          | I                |                  |                      |
| I -.05     | I 11.03          | I                |                  |                      |
| I -.10     | I 12.56          | I                |                  |                      |
| I -.23     | I 9.84           | I                |                  |                      |
| I -.51     | I 5.71           | I                |                  |                      |

## &gt;&gt;&gt; 2230 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
 -92.4 ( .4) W/M\*\*2 -3.3 ( .3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 8.48 ( .07)    | I 3.89 (.001)    | I 2.9 ( .3)      | I 130.7 ( 6.3) I     |
| I 8.50     | I 8.23 ( .09)    | I 3.96 (.001)    | I 2.8 ( .2)      | I I                  |
| I 4.25     | I 7.30 ( .23)    | I 3.76 (.002)    | I 2.5 ( .2)      | I I                  |
| I 2.13     | I 6.29 ( .21)    | I 3.92 (.001)    | I 1.8 ( .2)      | I I                  |
| I 1.06     | I 5.80 ( .18)    | I 3.56 (.002)    | I 1.4 ( .2)      | I I                  |
| I .00      | I 5.78           | I                |                  |                      |
| I -.02     | I 9.49           | I                |                  |                      |
| I -.05     | I 10.38          | I                |                  |                      |
| I -.10     | I 12.11          | I                |                  |                      |
| I -.23     | I 9.85           | I                |                  |                      |
| I -.51     | I 5.72           | I                |                  |                      |

&gt;&gt;&gt; 80-05-06 2300 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS |               |        |          |          |            |   |           |
|--------|---------------|--------|----------|----------|------------|---|-----------|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I          | I | I         |
| I      | 0/8           | /8     |          |          | I          | I | I         |
| -----  |               |        |          |          |            |   |           |
| I      | PRESSURE (MB) |        |          | I        | VISIBILITY |   | I WEATHER |
| I      | QFE           | QFF    | I        | I        | (KM)       |   | I         |
| I      | 1001.8        | 1010.4 | I        | I        | >20        |   | I         |

----->>> 2300 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -91.6 ( .7) W/M\*\*2 -2.9 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.86 ( .19)    | I 3.80 (.001)    | I 2.7 ( .4)      | I 140.9 ( 4.6)       |
| I 8.50     | I 7.47 ( .22)    | I 3.81 (.001)    | I 2.4 ( .3)      | I                    |
| I 4.25     | I 6.83 ( .21)    | I 3.62 (.001)    | I 2.4 ( .2)      | I                    |
| I 2.13     | I 5.68 ( .20)    | I 3.75 (.002)    | I 1.7 ( .2)      | I                    |
| I 1.06     | I 5.09 ( .26)    | I 3.41 (.001)    | I 1.4 ( .2)      | I                    |
| I .00      | I 5.21           | I                |                  |                      |
| I -.02     | I 8.89           | I                |                  |                      |
| I -.05     | I 9.77           | I                |                  |                      |
| I -.10     | I 11.65          | I                |                  |                      |
| I -.23     | I 9.85           | I                |                  |                      |
| I -.51     | I 5.74           | I                |                  |                      |

----->>> 2330 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -87.8 ( 1.3) W/M\*\*2 -3.2 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.39 ( .03)    | I 3.75 (.001)    | I 2.5 ( .1)      | I 135.2 ( 3.0)       |
| I 8.50     | I 7.10 ( .08)    | I 3.80 (.001)    | I 2.4 ( .1)      | I                    |
| I 4.25     | I 6.34 ( .06)    | I 3.60 (.001)    | I 2.2 ( .1)      | I                    |
| I 2.13     | I 5.38 ( .20)    | I 3.80 (.001)    | I 1.7 ( .1)      | I                    |
| I 1.06     | I 4.35 ( .21)    | I 3.37 (.002)    | I 1.2 ( .1)      | I                    |
| I .00      | I 4.40           | I                |                  |                      |
| I -.02     | I 8.30           | I                |                  |                      |
| I -.05     | I 9.22           | I                |                  |                      |
| I -.10     | I 11.22          | I                |                  |                      |
| I -.23     | I 9.82           | I                |                  |                      |
| I -.51     | I 5.77           | I                |                  |                      |

&gt;&gt;&gt; 80-05-07 0000 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |               |        |          |          |            |   |           |
|--------|---------------|--------|----------|----------|------------|---|-----------|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I          | I | I         |
| I      | 0/8           | /8     |          |          | I          | I | I         |
| -----  |               |        |          |          |            |   |           |
| I      | PRESSURE (MB) |        |          | I        | VISIBILITY |   | I WEATHER |
| I      | QFE           | QFF    | I        | I        | (KM)       |   | I         |
| I      | 1002.0        | 1010.7 | I        | I        | >20        |   | I         |

----->>> 0000 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -85.7 ( .6) W/M\*\*2 -2.7 ( .5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.22 ( .04)    | I 3.70 (.001)    | I 2.5 ( .2)      | I 138.2 ( 3.3)       |
| I 8.50     | I 6.90 ( .08)    | I 3.76 (.001)    | I 2.4 ( .3)      | I                    |
| I 4.25     | I 6.24 ( .12)    | I 3.59 (.001)    | I 2.3 ( .3)      | I                    |
| I 2.13     | I 5.06 ( .59)    | I 3.61 (.000)    | I 1.8 ( .2)      | I                    |
| I 1.06     | I 3.72 ( .51)    | I 3.15 (.001)    | I 1.3 ( .2)      | I                    |
| I .00      | I 3.74           | I                |                  |                      |
| I -.02     | I 7.74           | I                |                  |                      |
| I -.05     | I 8.71           | I                |                  |                      |
| I -.10     | I 10.79          | I                |                  |                      |
| I -.23     | I 9.80           | I                |                  |                      |
| I -.51     | I 5.78           | I                |                  |                      |

----->>> 0030 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -86.9 ( .3) W/M\*\*2 -2.5 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.71 ( .11)    | I 3.64 (.001)    | I 3.0 ( .1)      | I 134.6 ( 3.1)       |
| I 8.50     | I 6.36 ( .08)    | I 3.70 (.001)    | I 3.0 ( .1)      | I                    |
| I 4.25     | I 5.35 ( .33)    | I 3.47 (.001)    | I 2.9 ( .1)      | I                    |
| I 2.13     | I 3.30 ( .19)    | I 3.43 (.002)    | I 1.9 ( .1)      | I                    |
| I 1.06     | I 2.64 ( .10)    | I 3.07 (.002)    | I 1.4 ( .1)      | I                    |
| I .00      | I 3.34           | I                |                  |                      |
| I -.02     | I 7.23           | I                |                  |                      |
| I -.05     | I 8.19           | I                |                  |                      |
| I -.10     | I 10.39          | I                |                  |                      |
| I -.23     | I 9.75           | I                |                  |                      |
| I -.51     | I 5.79           | I                |                  |                      |

| CLOUDS |               |        |                        | PRESIPITATION |            |            |         |
|--------|---------------|--------|------------------------|---------------|------------|------------|---------|
| I      | N             | LOW    | MID-HIGH               | BASE (M)      | I          | SINCE 13LT | I       |
| I      | 0/8           | /8     |                        |               | I          | (MM)       | I       |
| I      |               |        |                        |               | I          |            | I       |
| I      | PRESSURE (MB) | I      | GEOSTROPHIC WIND (M/S) | I             | VISIBILITY | I          | WEATHER |
| I      | QFE           | QFF    | I                      | UG VG         | UG-850-VG  | I          | (KM)    |
| I      | 1001.8        | 1010.5 | I                      | 4.3 7.7       | -9 3.0     | I          | >20     |

## &gt;&gt;&gt; 0100 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
 -86.8 ( .2) W/M\*\*2 -2.8 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.32 ( .20)    | I 3.61 (.001)    | I 3.8 ( .2)      | I 139.3 ( 4.7)       |
| I 8.50     | I 5.83 ( .38)    | I 3.60 (.002)    | I 3.7 ( .1)      | I                    |
| I 4.25     | I 4.65 ( .34)    | I 3.34 (.002)    | I 3.2 ( .2)      | I                    |
| I 2.13     | I 3.70 ( .10)    | I 3.52 (.001)    | I 2.4 ( .2)      | I                    |
| I 1.06     | I 3.30 ( .08)    | I 3.32 (.001)    | I 1.9 ( .2)      | I                    |
| I .00      | I 3.30           | I                |                  |                      |
| I -.02     | I 6.80           | I                |                  |                      |
| I -.05     | I 7.75           | I                |                  |                      |
| I -.10     | I 9.99           | I                |                  |                      |
| I -.23     | I 9.67           | I                |                  |                      |
| I -.51     | I 5.83           | I                |                  |                      |

## &gt;&gt;&gt; 0130 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
 -87.4 ( .3) W/M\*\*2 -2.6 ( .4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.63 ( .14)    | I 3.57 (.001)    | I 4.4 ( .2)      | I 132.3 ( 2.5)       |
| I 8.50     | I 5.09 ( .19)    | I 3.58 (.001)    | I 3.9 ( .2)      | I                    |
| I 4.25     | I 3.68 ( .25)    | I 3.32 (.002)    | I 3.0 ( .2)      | I                    |
| I 2.13     | I 2.99 ( .29)    | I 3.44 (.001)    | I 2.3 ( .2)      | I                    |
| I 1.06     | I 2.64 ( .29)    | I 3.20 (.002)    | I 1.9 ( .2)      | I                    |
| I .00      | I 2.82           | I                |                  |                      |
| I -.02     | I 6.40           | I                |                  |                      |
| I -.05     | I 7.34           | I                |                  |                      |
| I -.10     | I 9.61           | I                |                  |                      |
| I -.23     | I 9.61           | I                |                  |                      |
| I -.51     | I 5.85           | I                |                  |                      |

## &gt;&gt;&gt; 80-05-07 0200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |               |        |                        | PRESIPITATION |            |            |         |
|--------|---------------|--------|------------------------|---------------|------------|------------|---------|
| I      | N             | LOW    | MID-HIGH               | BASE (M)      | I          | SINCE 13LT | I       |
| I      | 0/8           | /8     |                        |               | I          | (MM)       | I       |
| I      |               |        |                        |               | I          |            | I       |
| I      | PRESSURE (MB) | I      | GEOSTROPHIC WIND (M/S) | I             | VISIBILITY | I          | WEATHER |
| I      | QFE           | QFF    | I                      | UG VG         | UG-850-VG  | I          | (KM)    |
| I      | 1001.8        | 1010.5 | I                      |               |            | I          | >20     |

## &gt;&gt;&gt; 0200 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
 -88.5 ( .0) W/M\*\*2 -2.5 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.80 ( .12)    | I 3.51 (.001)    | I 4.3 ( .3)      | I 132.9 ( 3.0)       |
| I 8.50     | I 4.25 ( .12)    | I 3.54 (.002)    | I 3.6 ( .4)      | I                    |
| I 4.25     | I 3.38 ( .28)    | I 3.31 (.001)    | I 3.0 ( .4)      | I                    |
| I 2.13     | I 2.86 ( .28)    | I 3.42 (.001)    | I 2.4 ( .4)      | I                    |
| I 1.06     | I 2.56 ( .24)    | I 3.22 (.001)    | I 2.0 ( .3)      | I                    |
| I .00      | I 2.59           | I                |                  |                      |
| I -.02     | I 6.05           | I                |                  |                      |
| I -.05     | I 6.97           | I                |                  |                      |
| I -.10     | I 9.25           | I                |                  |                      |
| I -.23     | I 9.53           | I                |                  |                      |
| I -.51     | I 5.87           | I                |                  |                      |

## &gt;&gt;&gt; 0230 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
 -89.1 ( .7) W/M\*\*2 -3.0 ( .3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 3.80 ( .29)    | I 3.42 (.002)    | I 5.0 ( .4)      | I 131.6 ( 3.0)       |
| I 8.50     | I 3.35 ( .18)    | I 3.47 (.002)    | I 4.2 ( .4)      | I                    |
| I 4.25     | I 2.98 ( .12)    | I 3.38 (.001)    | I 3.6 ( .3)      | I                    |
| I 2.13     | I 2.75 ( .15)    | I 3.53 (.000)    | I 3.0 ( .3)      | I                    |
| I 1.06     | I 2.58 ( .16)    | I 3.37 (.001)    | I 2.6 ( .4)      | I                    |
| I .00      | I 2.47           | I                |                  |                      |
| I -.02     | I 5.70           | I                |                  |                      |
| I -.05     | I 6.59           | I                |                  |                      |
| I -.10     | I 8.91           | I                |                  |                      |
| I -.23     | I 9.44           | I                |                  |                      |
| I -.51     | I 5.90           | I                |                  |                      |

| CLOUDS          |          |          |          |              |           |   |
|-----------------|----------|----------|----------|--------------|-----------|---|
| I N             | LOW      | MID-HIGH | BASE (M) | I            | I         | I |
| I 0/8           | /8       |          |          | I            | I         | I |
| -----           |          |          |          |              |           |   |
| I PRESSURE (MB) | I        |          |          | I VISIBILITY | I WEATHER | I |
| I QFE           | QFF I    |          |          | I (KM)       | I         | I |
| I 1001.6        | 1010.3 I |          |          | I >20        | I         | I |

## &gt;&gt;&gt; 0300 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
 -89.4 ( .6) W/M\*\*2 -2.3 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 3.18 ( .12)    | I 3.50 (.001)    | I 3.0 ( .5)      | I 143.8 ( 7.4) I     |
| I 8.50     | I 2.84 ( .07)    | I 3.54 (.001)    | I 2.6 ( .5)      | I                    |
| I 4.25     | I 2.32 ( .12)    | I 3.32 (.001)    | I 2.1 ( .4)      | I                    |
| I 2.13     | I 1.96 ( .19)    | I 3.40 (.001)    | I 1.6 ( .4)      | I                    |
| I 1.06     | I 1.69 ( .24)    | I 3.18 (.001)    | I 1.3 ( .4)      | I                    |
| I .00      | I 1.90           | I                |                  |                      |
| I -.02     | I 5.39           | I                |                  |                      |
| I -.05     | I 6.28           | I                |                  |                      |
| I -.10     | I 8.59           | I                |                  |                      |
| I -.23     | I 9.37           | I                |                  |                      |
| I -.51     | I 5.92           | I                |                  |                      |

## &gt;&gt;&gt; 0330 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
 -83.7 ( 1.4) W/M\*\*2 -1.0 ( 1.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 2.94 ( .06)    | I 3.56 (.001)    | I 1.9 ( .3)      | I 159.4 ( 5.7) I     |
| I 8.50     | I 2.60 ( .16)    | I 3.58 (.001)    | I 1.4 ( .3)      | I                    |
| I 4.25     | I 1.94 ( .16)    | I 3.29 (.003)    | I 1.2 ( .6)      | I                    |
| I 2.13     | I 1.27 ( .35)    | I 3.35 (.001)    | I .8 ( .3)       | I                    |
| I 1.06     | I .80 ( .42)     | I 3.04 (.002)    | I .6 ( .6)       | I                    |
| I .00      | I .84            | I                |                  |                      |
| I -.02     | I 4.98           | I                |                  |                      |
| I -.05     | I 5.91           | I                |                  |                      |
| I -.10     | I 8.28           | I                |                  |                      |
| I -.23     | I 9.27           | I                |                  |                      |
| I -.51     | I 5.95           | I                |                  |                      |

## &gt;&gt;&gt; 80-05-07 0400 LT S Y N O P &lt;&lt;&lt;

| CLOUDS          |          |                          |          |              |           |   |
|-----------------|----------|--------------------------|----------|--------------|-----------|---|
| I N             | LOW      | MID-HIGH                 | BASE (M) | I            | I         | I |
| I 2/8           | /8       | CI                       |          | I            | I         | I |
| -----           |          |                          |          |              |           |   |
| I PRESSURE (MB) | I        | I GEOSTROPHIC WIND (M/S) |          | I VISIBILITY | I WEATHER | I |
| I QFE           | QFF I    | I UG                     | VG       | I (KM)       | I         | I |
| I 1001.4        | 1010.2 I | I 4.3                    | 8.4      | I >20        | I         | I |

## &gt;&gt;&gt; 0400 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
 -73.6 ( 3.0) W/M\*\*2 12.0 ( 5.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 2.87 ( .03)    | I 3.59 (.001)    | I 2.4 ( .3)      | I 157.0 ( 4.6) I     |
| I 8.50     | I 2.69 ( .05)    | I 3.62 (.001)    | I 2.0 ( .3)      | I                    |
| I 4.25     | I 2.36 ( .11)    | I 3.47 (.001)    | I 1.8 ( .3)      | I                    |
| I 2.13     | I 1.23 ( .12)    | I 3.41 (.001)    | I 1.3 ( .3)      | I                    |
| I 1.06     | I .43 ( .27)     | I 3.00 (.001)    | I .9 ( .2)       | I                    |
| I .00      | I .87            | I                |                  |                      |
| I -.02     | I 4.65           | I                |                  |                      |
| I -.05     | I 5.57           | I                |                  |                      |
| I -.10     | I 7.98           | I                |                  |                      |
| I -.23     | I 9.16           | I                |                  |                      |
| I -.51     | I 5.97           | I                |                  |                      |

## &gt;&gt;&gt; 0430 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
 -54.6 ( 4.4) W/M\*\*2 48.9 ( 7.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 2.82 ( .03)    | I 3.43 (.001)    | I 2.2 ( .3)      | I 149.5 ( 5.5) I     |
| I 8.50     | I 2.60 ( .03)    | I 3.49 (.001)    | I 2.1 ( .4)      | I                    |
| I 4.25     | I 2.12 ( .08)    | I 3.30 (.000)    | I 2.2 ( .3)      | I                    |
| I 2.13     | I 1.23 ( .12)    | I 3.34 (.000)    | I 1.6 ( .2)      | I                    |
| I 1.06     | I .91 ( .18)     | I 3.11 (.001)    | I 1.3 ( .2)      | I                    |
| I .00      | I 1.44           | I                |                  |                      |
| I -.02     | I 4.48           | I                |                  |                      |
| I -.05     | I 5.33           | I                |                  |                      |
| I -.10     | I 7.67           | I                |                  |                      |
| I -.23     | I 9.06           | I                |                  |                      |
| I -.51     | I 5.98           | I                |                  |                      |

| CLOUDS |               |        |          | BASE (M) |            | SOILWATER CONTENT |            |
|--------|---------------|--------|----------|----------|------------|-------------------|------------|
| I      | N             | LOW    | MID-HIGH | I        | I          | I                 | I          |
| I      | 1/8           | /8     | CI       | I        | I          | I                 | 60-80 (MM) |
| I      |               |        |          | I        |            | I                 |            |
| I      | PRESSURE (MB) |        |          | I        | VISIBILITY |                   | I          |
| I      | QFE QFF       |        |          | I        | (KM)       |                   | I          |
| I      | 1001.3        | 1010.0 | I        | I        | >20        |                   | I          |

>>> 0500 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -21.9 ( 9.0) W/M\*\*2 93.4 ( 11.0) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 2.75 ( .07)    | I 3.21 (.000)    | I 2.8 ( .1)      | I 141.2 ( 5.9)       |
| I 8.50     | I 2.73 ( .05)    | I 3.28 (.000)    | I 2.5 ( .2)      | I                    |
| I 4.25     | I 2.62 ( .12)    | I 3.23 (.000)    | I 2.3 ( .2)      | I                    |
| I 2.13     | I 2.62 ( .19)    | I 3.45 (.001)    | I 2.0 ( .2)      | I                    |
| I 1.06     | I 2.60 ( .22)    | I 3.33 (.001)    | I 1.7 ( .3)      | I                    |
| I .00      | I 3.43           | I                |                  |                      |
| I -.02     | I 4.55           | I                |                  |                      |
| I -.05     | I 5.25           | I                |                  |                      |
| I -.10     | I 7.41           | I                |                  |                      |
| I -.23     | I 8.95           | I                |                  |                      |
| I -.51     | I 6.00           | I                |                  |                      |

>>> 0530 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 29.8 ( 13.6) W/M\*\*2 150.4 ( 16.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 3.40 ( .12)    | I 3.26 (.001)    | I 3.2 ( .5)      | I 141.7 ( 7.5)       |
| I 8.50     | I 3.52 ( .13)    | I 3.32 (.001)    | I 3.0 ( .4)      | I                    |
| I 4.25     | I 3.58 ( .14)    | I 3.26 (.001)    | I 2.9 ( .4)      | I                    |
| I 2.13     | I 3.70 ( .16)    | I 3.43 (.001)    | I 2.7 ( .4)      | I                    |
| I 1.06     | I 3.78 ( .18)    | I 3.33 (.001)    | I 2.4 ( .4)      | I                    |
| I .00      | I 5.50           | I                |                  |                      |
| I -.02     | I 4.93           | I                |                  |                      |
| I -.05     | I 5.57           | I                |                  |                      |
| I -.10     | I 7.29           | I                |                  |                      |
| I -.23     | I 8.91           | I                |                  |                      |
| I -.51     | I 6.09           | I                |                  |                      |

&gt;&gt;&gt; 80-05-07 0600 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |               |        |          | BASE (M) |            | SOILWATER CONTENT |            |
|--------|---------------|--------|----------|----------|------------|-------------------|------------|
| I      | N             | LOW    | MID-HIGH | I        | I          | I                 | I          |
| I      | 1/8           | /8     | CI       | I        | I          | I                 | 60-80 (MM) |
| I      |               |        |          | I        |            | I                 |            |
| I      | PRESSURE (MB) |        |          | I        | VISIBILITY |                   | I          |
| I      | QFE QFF       |        |          | I        | (KM)       |                   | I          |
| I      | 1001.1        | 1009.8 | I        | I        | >20        |                   | I          |

>>> 0600 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 94.7 ( 9.4) W/M\*\*2 223.7 ( 11.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.07 ( .13)    | I 3.23 (.001)    | I 3.3 ( .3)      | I 149.4 ( 7.1)       |
| I 8.50     | I 4.23 ( .15)    | I 3.27 (.001)    | I 3.2 ( .4)      | I                    |
| I 4.25     | I 4.31 ( .16)    | I 3.19 (.001)    | I 3.2 ( .4)      | I                    |
| I 2.13     | I 4.48 ( .17)    | I 3.39 (.001)    | I 3.0 ( .4)      | I                    |
| I 1.06     | I 4.66 ( .18)    | I 3.31 (.001)    | I 2.7 ( .4)      | I                    |
| I .00      | I 8.10           | I                |                  |                      |
| I -.02     | I 5.51           | I                |                  |                      |
| I -.05     | I 6.18           | I                |                  |                      |
| I -.10     | I 7.22           | I                |                  |                      |
| I -.23     | I 8.82           | I                |                  |                      |
| I -.51     | I 6.11           | I                |                  |                      |

>>> 0630 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 155.0 ( 18.9) W/M\*\*2 297.1 ( 19.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.01 ( .25)    | I 3.32 (.001)    | I 3.3 ( .5)      | I 163.0 ( 8.6)       |
| I 8.50     | I 5.19 ( .29)    | I 3.36 (.001)    | I 3.2 ( .5)      | I                    |
| I 4.25     | I 5.29 ( .32)    | I 3.26 (.001)    | I 3.2 ( .5)      | I                    |
| I 2.13     | I 5.52 ( .36)    | I 3.49 (.002)    | I 2.9 ( .5)      | I                    |
| I 1.06     | I 5.76 ( .39)    | I 3.38 (.002)    | I 2.7 ( .5)      | I                    |
| I .00      | I 10.57          | I                |                  |                      |
| I -.02     | I 6.19           | I                |                  |                      |
| I -.05     | I 6.91           | I                |                  |                      |
| I -.10     | I 7.27           | I                |                  |                      |
| I -.23     | I 8.71           | I                |                  |                      |
| I -.51     | I 6.14           | I                |                  |                      |

| CLOUDS        |        |        |          | PRESIPITATION          |     |            |         |
|---------------|--------|--------|----------|------------------------|-----|------------|---------|
| I             | N      | LOW    | MID-HIGH | BASE (M)               | I   | SINCE 19LT | I       |
| I             | 2/8    | /8     | CS       | 5000                   | I   | (MM)       | I       |
| I             |        |        |          |                        | I   |            | I       |
| PRESSURE (MB) |        |        |          | GEOSTROPHIC WIND (M/S) |     |            |         |
| I             | QFE    | QFF    | I        | UG                     | VG  | I          | WEATHER |
| I             | 1001.0 | 1009.6 | I        | 2.7                    | 8.8 | I          | >20     |

>>> 0700 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 210.7 ( 18.3) W/M\*\*2 362.3 ( 19.4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.11 ( .20)    | I 3.38 (.001)    | I 3.4 ( .6)      | I 149.2 ( 11.2)      |
| I 8.50     | I 6.28 ( .22)    | I 3.40 (.001)    | I 3.2 ( .5)      | I                    |
| I 4.25     | I 6.41 ( .27)    | I 3.31 (.001)    | I 3.1 ( .6)      | I                    |
| I 2.13     | I 6.67 ( .31)    | I 3.54 (.002)    | I 2.9 ( .6)      | I                    |
| I 1.06     | I 6.95 ( .33)    | I 3.43 (.001)    | I 2.6 ( .6)      | I                    |
| I .00      | I 13.50          | I                |                  |                      |
| I -.02     | I 7.11           | I                |                  |                      |
| I -.05     | I 7.87           | I                |                  |                      |
| I -.10     | I 7.44           | I                |                  |                      |
| I -.23     | I 8.59           | I                |                  |                      |
| I -.51     | I 6.14           | I                |                  |                      |

>>> 0730 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 270.1 ( 14.0) W/M\*\*2 425.9 ( 17.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.55 ( .16)    | I 3.60 (.001)    | I 3.9 ( .7)      | I 142.8 ( 14.2)      |
| I 8.50     | I 7.72 ( .19)    | I 3.59 (.002)    | I 3.7 ( .7)      | I                    |
| I 4.25     | I 7.87 ( .24)    | I 3.51 (.002)    | I 3.7 ( .7)      | I                    |
| I 2.13     | I 8.18 ( .27)    | I 3.75 (.002)    | I 3.4 ( .7)      | I                    |
| I 1.06     | I 8.51 ( .27)    | I 3.66 (.002)    | I 3.1 ( .7)      | I                    |
| I .00      | I 15.64          | I                |                  |                      |
| I -.02     | I 8.22           | I                |                  |                      |
| I -.05     | I 8.96           | I                |                  |                      |
| I -.10     | I 7.72           | I                |                  |                      |
| I -.23     | I 8.48           | I                |                  |                      |
| I -.51     | I 6.14           | I                |                  |                      |

&gt;&gt;&gt; 80-05-07 0800 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |        |        |          | PRESIPITATION          |    |            |         |
|---------------|--------|--------|----------|------------------------|----|------------|---------|
| I             | N      | LOW    | MID-HIGH | BASE (M)               | I  | SINCE 19LT | I       |
| I             | 2/8    | /8     | CS       | 5000                   | I  | (MM)       | I       |
| I             |        |        |          |                        | I  |            | I       |
| PRESSURE (MB) |        |        |          | GEOSTROPHIC WIND (M/S) |    |            |         |
| I             | QFE    | QFF    | I        | UG                     | VG | I          | WEATHER |
| I             | 1000.6 | 1009.0 | I        |                        |    | I          | >20     |

>>> 0800 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 332.0 ( 8.3) W/M\*\*2 493.3 ( 8.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 8.41 ( .15)    | I 3.65 (.001)    | I 4.0 ( .7)      | I 138.9 ( 13.6)      |
| I 8.50     | I 8.59 ( .18)    | I 3.65 (.001)    | I 3.8 ( .7)      | I                    |
| I 4.25     | I 8.72 ( .24)    | I 3.55 (.001)    | I 3.8 ( .7)      | I                    |
| I 2.13     | I 9.09 ( .30)    | I 3.79 (.002)    | I 3.4 ( .7)      | I                    |
| I 1.06     | I 9.53 ( .34)    | I 3.74 (.002)    | I 3.1 ( .7)      | I                    |
| I .00      | I 18.51          | I                |                  |                      |
| I -.02     | I 9.53           | I                |                  |                      |
| I -.05     | I 10.14          | I                |                  |                      |
| I -.10     | I 8.11           | I                |                  |                      |
| I -.23     | I 8.37           | I                |                  |                      |
| I -.51     | I 6.14           | I                |                  |                      |

>>> 0830 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 354.5 ( 32.5) W/M\*\*2 519.3 ( 36.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 8.99 ( .25)    | I 3.79 (.001)    | I 4.9 ( .9)      | I 132.6 ( 11.1)      |
| I 8.50     | I 9.25 ( .30)    | I 3.80 (.001)    | I 4.8 ( .9)      | I                    |
| I 4.25     | I 9.48 ( .33)    | I 3.73 (.002)    | I 4.6 ( .9)      | I                    |
| I 2.13     | I 9.89 ( .29)    | I 3.97 (.002)    | I 4.2 ( .9)      | I                    |
| I 1.06     | I 10.40 ( .29)   | I 3.90 (.001)    | I 3.8 ( .8)      | I                    |
| I .00      | I 19.26          | I                |                  |                      |
| I -.02     | I 10.68          | I                |                  |                      |
| I -.05     | I 11.17          | I                |                  |                      |
| I -.10     | I 8.59           | I                |                  |                      |
| I -.23     | I 8.28           | I                |                  |                      |
| I -.51     | I 6.14           | I                |                  |                      |

| CLOUDS        |        |        |          | BASE (M) |                 | VISIBILITY |     | WEATHER |   |
|---------------|--------|--------|----------|----------|-----------------|------------|-----|---------|---|
| I             | N      | LOW    | MID-HIGH | I        | I               | I          | I   | I       | I |
| I             | 3/8    | /8     | CS       | I        | 5000            | I          |     | I       |   |
| PRESSURE (MB) |        |        |          |          | VISIBILITY (KM) |            |     |         |   |
| I             | QFE    | QFF    | I        | I        |                 | I          |     | I       |   |
| I             | 1000.3 | 1008.8 | I        | I        |                 | I          | >20 | I       |   |

>>> 0900 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 415.1 ( 16.1) W/M\*\*2 580.5 ( 17.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 9.58 ( .18)    | I 3.78 (.001)    | I 5.8 ( .8)      | I 142.7 ( 11.1)      |
| I 8.50     | I 9.86 ( .21)    | I 3.77 (.002)    | I 5.6 ( .8)      | I                    |
| I 4.25     | I 10.15 ( .28)   | I 3.71 (.002)    | I 5.4 ( .9)      | I                    |
| I 2.13     | I 10.57 ( .29)   | I 3.94 (.002)    | I 5.0 ( .9)      | I                    |
| I 1.06     | I 11.19 ( .32)   | I 3.92 (.002)    | I 4.5 ( .9)      | I                    |
| I .00      | I 20.57          | I                |                  |                      |
| I -.02     | I 12.02          | I                |                  |                      |
| I -.05     | I 12.25          | I                |                  |                      |
| I -.10     | I 9.11           | I                |                  |                      |
| I -.23     | I 8.21           | I                |                  |                      |
| I -.51     | I 6.15           | I                |                  |                      |

>>> 0930 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 435.8 ( 47.0) W/M\*\*2 608.7 ( 51.8) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 10.29 ( .29)   | I 3.57 (.003)    | I 5.4 (1.1)      | I 149.4 ( 12.9)      |
| I 8.50     | I 10.52 ( .28)   | I 3.54 (.003)    | I 5.1 (1.2)      | I                    |
| I 4.25     | I 10.87 ( .32)   | I 3.50 (.003)    | I 5.1 (1.2)      | I                    |
| I 2.13     | I 11.28 ( .33)   | I 3.73 (.004)    | I 4.6 (1.2)      | I                    |
| I 1.06     | I 11.90 ( .36)   | I 3.72 (.003)    | I 4.2 (1.1)      | I                    |
| I .00      | I 21.92          | I                |                  |                      |
| I -.02     | I 13.08          | I                |                  |                      |
| I -.05     | I 13.17          | I                |                  |                      |
| I -.10     | I 9.67           | I                |                  |                      |
| I -.23     | I 8.18           | I                |                  |                      |
| I -.51     | I 6.18           | I                |                  |                      |

&gt;&gt;&gt; 80-05-07 1000 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |        |        |          | BASE (M) |                        | VISIBILITY |      | WEATHER |   |
|---------------|--------|--------|----------|----------|------------------------|------------|------|---------|---|
| I             | N      | LOW    | MID-HIGH | I        | I                      | I          | I    | I       | I |
| I             | 3/8    | /8     | CS       | I        | 5000                   | I          |      | I       |   |
| PRESSURE (MB) |        |        |          |          | GEOSTROPHIC WIND (M/S) |            |      |         |   |
| I             | QFE    | QFF    | I        | UG       | VG                     | I          | (KM) | I       |   |
| I             | 1000.0 | 1008.4 | I        | .4       | 9.7                    | I          | >20  | I       |   |

>>> 1000 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 476.9 ( 13.4) W/M\*\*2 656.4 ( 23.0) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 10.85 ( .18)   | I 3.38 (.001)    | I 6.8 (1.0)      | I 142.9 ( 9.6)       |
| I 8.50     | I 11.12 ( .20)   | I 3.33 (.002)    | I 6.4 (1.1)      | I                    |
| I 4.25     | I 11.48 ( .22)   | I 3.32 (.002)    | I 6.4 (1.2)      | I                    |
| I 2.13     | I 11.93 ( .24)   | I 3.54 (.002)    | I 5.9 (1.2)      | I                    |
| I 1.06     | I 12.65 ( .27)   | I 3.54 (.002)    | I 5.3 (1.1)      | I                    |
| I .00      | I 22.72          | I                |                  |                      |
| I -.02     | I 14.25          | I                |                  |                      |
| I -.05     | I 14.11          | I                |                  |                      |
| I -.10     | I 10.24          | I                |                  |                      |
| I -.23     | I 8.15           | I                |                  |                      |
| I -.51     | I 6.18           | I                |                  |                      |

>>> 1030 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 538.1 ( 5.8) W/M\*\*2 730.5 ( 7.4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 11.26 ( .20)   | I 3.38 (.002)    | I 7.8 (1.3)      | I 137.2 ( 8.8)       |
| I 8.50     | I 11.54 ( .23)   | I 3.34 (.002)    | I 7.5 (1.3)      | I                    |
| I 4.25     | I 11.96 ( .28)   | I 3.34 (.002)    | I 7.3 (1.2)      | I                    |
| I 2.13     | I 12.51 ( .33)   | I 3.55 (.003)    | I 6.7 (1.2)      | I                    |
| I 1.06     | I 13.32 ( .34)   | I 3.58 (.003)    | I 6.1 (1.2)      | I                    |
| I .00      | I 23.95          | I                |                  |                      |
| I -.02     | I 15.37          | I                |                  |                      |
| I -.05     | I 15.00          | I                |                  |                      |
| I -.10     | I 10.81          | I                |                  |                      |
| I -.23     | I 8.15           | I                |                  |                      |
| I -.51     | I 6.20           | I                |                  |                      |

| CLOUDS          |          |          |          |              |   |           |
|-----------------|----------|----------|----------|--------------|---|-----------|
| I N             | LOW      | MID-HIGH | BASE (M) | I            | I | I         |
| I 2/8           | /8       | CS       | 5000     | I            | I | I         |
| I - - - - - I   |          |          |          |              |   |           |
| I PRESSURE (MB) | I        |          |          | I VISIBILITY | I | I WEATHER |
| I QFE           | I QFF    |          |          | I (KM)       | I | I         |
| I 999.4         | I 1007.8 | I        |          | I >20        | I | I         |

## &gt;&gt;&gt; 1100 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
543.1 ( 2.6) W/M\*\*2 741.4 ( 4.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
|------------|------------------|------------------|------------------|----------------------|

|         |                |               |             |                 |
|---------|----------------|---------------|-------------|-----------------|
| I 17.00 | I 11.63 ( .24) | I 3.28 (.002) | I 6.2 (1.3) | I 148.0 ( 13.1) |
| I 8.50  | I 11.87 ( .27) | I 3.22 (.002) | I 5.9 (1.2) | I               |
| I 4.25  | I 12.21 ( .28) | I 3.19 (.002) | I 5.8 (1.2) | I               |
| I 2.13  | I 12.66 ( .28) | I 3.39 (.003) | I 5.3 (1.1) | I               |
| I 1.06  | I 13.41 ( .29) | I 3.40 (.002) | I 4.8 (1.0) | I               |
| I .00   | I 26.05        | I             |             |                 |
| I -.02  | I 16.36        | I             |             |                 |
| I -.05  | I 15.76        | I             |             |                 |
| I -.10  | I 11.38        | I             |             |                 |
| I -.23  | I 8.16         | I             |             |                 |
| I -.51  | I 6.21         | I             |             |                 |

## &gt;&gt;&gt; 1130 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
525.6 ( 16.7) W/M\*\*2 725.4 ( 21.5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
|------------|------------------|------------------|------------------|----------------------|

|         |                |               |             |                 |
|---------|----------------|---------------|-------------|-----------------|
| I 17.00 | I 12.03 ( .20) | I 3.24 (.004) | I 5.8 (1.1) | I 131.1 ( 16.1) |
| I 8.50  | I 12.31 ( .21) | I 3.17 (.004) | I 5.4 (1.1) | I               |
| I 4.25  | I 12.65 ( .25) | I 3.13 (.004) | I 5.3 (1.0) | I               |
| I 2.13  | I 13.13 ( .28) | I 3.33 (.004) | I 4.8 (1.0) | I               |
| I 1.06  | I 13.84 ( .33) | I 3.33 (.004) | I 4.4 ( .9) | I               |
| I .00   | I 26.33        | I             |             |                 |
| I -.02  | I 17.34        | I             |             |                 |
| I -.05  | I 16.68        | I             |             |                 |
| I -.10  | I 11.94        | I             |             |                 |
| I -.23  | I 8.19         | I             |             |                 |
| I -.51  | I 6.21         | I             |             |                 |

## &gt;&gt;&gt; 80-05-07 1200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS          |          |          |          |              |   |           |
|-----------------|----------|----------|----------|--------------|---|-----------|
| I N             | LOW      | MID-HIGH | BASE (M) | I            | I | I         |
| I 2/8           | /8       | CI       | 5000     | I            | I | I         |
| I - - - - - I   |          |          |          |              |   |           |
| I PRESSURE (MB) | I        |          |          | I VISIBILITY | I | I WEATHER |
| I QFE           | I QFF    |          |          | I (KM)       | I | I         |
| I 998.8         | I 1007.1 | I        |          | I >20        | I | I         |

## &gt;&gt;&gt; 1200 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
566.8 ( 4.5) W/M\*\*2 771.4 ( 7.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
|------------|------------------|------------------|------------------|----------------------|

|         |                |               |             |                 |
|---------|----------------|---------------|-------------|-----------------|
| I 17.00 | I 12.61 ( .30) | I 3.47 (.003) | I 6.0 (1.3) | I 140.8 ( 16.6) |
| I 8.50  | I 12.90 ( .35) | I 3.41 (.004) | I 5.7 (1.4) | I               |
| I 4.25  | I 13.27 ( .37) | I 3.39 (.003) | I 5.6 (1.4) | I               |
| I 2.13  | I 13.77 ( .40) | I 3.62 (.004) | I 5.2 (1.3) | I               |
| I 1.06  | I 14.55 ( .48) | I 3.64 (.003) | I 4.7 (1.2) | I               |
| I .00   | I 28.88        | I             |             |                 |
| I -.02  | I 18.63        | I             |             |                 |
| I -.05  | I 17.59        | I             |             |                 |
| I -.10  | I 12.49        | I             |             |                 |
| I -.23  | I 8.24         | I             |             |                 |
| I -.51  | I 6.21         | I             |             |                 |

## &gt;&gt;&gt; 1230 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
537.6 ( 11.3) W/M\*\*2 737.7 ( 16.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
|------------|------------------|------------------|------------------|----------------------|

|         |                |               |             |                 |
|---------|----------------|---------------|-------------|-----------------|
| I 17.00 | I 12.74 ( .21) | I 3.03 (.003) | I 6.5 (1.1) | I 161.4 ( 14.2) |
| I 8.50  | I 13.02 ( .26) | I 2.97 (.004) | I 6.3 (1.2) | I               |
| I 4.25  | I 13.47 ( .32) | I 2.96 (.004) | I 6.1 (1.1) | I               |
| I 2.13  | I 14.00 ( .34) | I 3.17 (.004) | I 5.6 (1.0) | I               |
| I 1.06  | I 14.84 ( .34) | I 3.19 (.004) | I 5.1 (1.0) | I               |
| I .00   | I 27.20        | I             |             |                 |
| I -.02  | I 19.13        | I             |             |                 |
| I -.05  | I 18.22        | I             |             |                 |
| I -.10  | I 13.08        | I             |             |                 |
| I -.23  | I 8.32         | I             |             |                 |
| I -.51  | I 6.24         | I             |             |                 |

&gt;&gt;&gt; 80-05-07 1300 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS        |       |                        |          | BASE (M)   |            | PRESIPITATION |      |
|---------------|-------|------------------------|----------|------------|------------|---------------|------|
| I             | N     | LOW                    | MID-HIGH | I          | SINCE 01LT | I             | I    |
| I             | 3/8   | 1/8 CU                 | CI       | 1500       | I          | (MM)          | I    |
| -----         |       |                        |          |            |            |               |      |
| PRESSURE (MB) |       | GEOSTROPHIC WIND (M/S) |          | VISIBILITY |            | WEATHER       |      |
| I             | QFE   | QFF                    | UG       | VG         | UG-850-VG  | I             | (KM) |
| I             | 998.4 | 1006.7                 | I        | -4         | 11.3       | .6            | 6.7  |
|               |       |                        |          | I          |            | >20           | I    |

&gt;&gt;&gt; 1300 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION  
537.4 ( 13.2) W/M\*\*2GLOBAL RADIATION  
741.7 ( 19.4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 13.00 ( .24)   | I 3.04 (.003)    | I 5.9 (1.4)      | I 151.6 ( 14.5) I    |
| I 8.50     | I 13.26 ( .29)   | I 2.98 (.003)    | I 5.6 (1.3)      | I I                  |
| I 4.25     | I 13.62 ( .32)   | I 2.96 (.003)    | I 5.5 (1.3)      | I I                  |
| I 2.13     | I 14.09 ( .33)   | I 3.17 (.003)    | I 5.1 (1.3)      | I I                  |
| I 1.06     | I 14.86 ( .39)   | I 3.16 (.003)    | I 4.6 (1.1)      | I I                  |
| I .00      | I 26.92          | I                |                  |                      |
| I -.02     | I 19.47          | I                |                  |                      |
| I -.05     | I 18.50          | I                |                  |                      |
| I -.10     | I 13.62          | I                |                  |                      |
| I -.23     | I 8.39           | I                |                  |                      |
| I -.51     | I 6.24           | I                |                  |                      |

&gt;&gt;&gt; 1330 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION  
514.2 ( 21.1) W/M\*\*2GLOBAL RADIATION  
720.7 ( 34.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 13.27 ( .22)   | I 3.05 (.002)    | I 5.5 (1.3)      | I 163.4 ( 20.2) I    |
| I 8.50     | I 13.56 ( .25)   | I 3.01 (.003)    | I 5.3 (1.3)      | I I                  |
| I 4.25     | I 13.93 ( .29)   | I 2.99 (.003)    | I 5.2 (1.3)      | I I                  |
| I 2.13     | I 14.39 ( .33)   | I 3.22 (.004)    | I 4.8 (1.2)      | I I                  |
| I 1.06     | I 15.16 ( .39)   | I 3.22 (.003)    | I 4.3 (1.1)      | I I                  |
| I .00      | I 28.28          | I                |                  |                      |
| I -.02     | I 20.20          | I                |                  |                      |
| I -.05     | I 19.03          | I                |                  |                      |
| I -.10     | I 14.05          | I                |                  |                      |
| I -.23     | I 8.49           | I                |                  |                      |
| I -.51     | I 6.24           | I                |                  |                      |

&gt;&gt;&gt; 80-05-07 1400 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |       |        |          | BASE (M)   |      |         |   |
|---------------|-------|--------|----------|------------|------|---------|---|
| I             | N     | LOW    | MID-HIGH | I          |      | I       | I |
| I             | 3/8   | 1/8 CU | CI       | 1500       | I    |         | I |
| -----         |       |        |          |            |      |         |   |
| PRESSURE (MB) |       |        |          | VISIBILITY |      | WEATHER |   |
| I             | QFE   | QFF    | I        | I          | (KM) | I       | I |
| I             | 998.0 | 1006.3 | I        | I          | >20  | I       | I |

&gt;&gt;&gt; 1400 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION  
400.7 ( 27.9) W/M\*\*2GLOBAL RADIATION  
584.9 ( 35.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 13.44 ( .27)   | I 3.07 (.004)    | I 4.6 (1.2)      | I 155.9 ( 18.2) I    |
| I 8.50     | I 13.73 ( .30)   | I 3.05 (.004)    | I 4.3 (1.3)      | I I                  |
| I 4.25     | I 14.02 ( .33)   | I 3.01 (.004)    | I 4.3 (1.3)      | I I                  |
| I 2.13     | I 14.36 ( .33)   | I 3.22 (.004)    | I 4.0 (1.3)      | I I                  |
| I 1.06     | I 14.96 ( .37)   | I 3.17 (.004)    | I 3.7 (1.2)      | I I                  |
| I .00      | I 26.94          | I                |                  |                      |
| I -.02     | I 20.25          | I                |                  |                      |
| I -.05     | I 19.21          | I                |                  |                      |
| I -.10     | I 14.47          | I                |                  |                      |
| I -.23     | I 8.59           | I                |                  |                      |
| I -.51     | I 6.24           | I                |                  |                      |

&gt;&gt;&gt; 1430 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION  
404.8 ( 33.5) W/M\*\*2GLOBAL RADIATION  
591.5 ( 41.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 13.67 ( .16)   | I 3.18 (.004)    | I 4.2 (1.0)      | I 143.8 ( 24.8) I    |
| I 8.50     | I 13.85 ( .19)   | I 3.18 (.004)    | I 4.0 (1.0)      | I I                  |
| I 4.25     | I 14.08 ( .25)   | I 3.10 (.004)    | I 3.9 (1.1)      | I I                  |
| I 2.13     | I 14.49 ( .25)   | I 3.36 (.004)    | I 3.6 (1.0)      | I I                  |
| I 1.06     | I 15.09 ( .28)   | I 3.31 (.004)    | I 3.3 (1.0)      | I I                  |
| I .00      | I 27.45          | I                |                  |                      |
| I -.02     | I 20.48          | I                |                  |                      |
| I -.05     | I 19.21          | I                |                  |                      |
| I -.10     | I 14.81          | I                |                  |                      |
| I -.23     | I 8.71           | I                |                  |                      |
| I -.51     | I 6.25           | I                |                  |                      |

| CLOUDS        |       |        |          |          |            |           |
|---------------|-------|--------|----------|----------|------------|-----------|
| I             | N     | LOW    | MID-HIGH | BASE (M) | I          | I         |
| I             | 4/8   | 1/8 CU | CS       | 1500     | I          | I         |
| -----         |       |        |          |          |            |           |
| PRESSURE (MB) |       |        |          | I        | VISIBILITY | I WEATHER |
| QFE QFF I     |       |        |          | I        | (KM)       | I         |
| I             | 997.3 | 1005.7 | I        | I        | >20        | I         |

----->>> 1500 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 313.2 ( 34.1) W/M\*\*2 483.9 ( 47.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 13.87 ( .17)   | I 3.27 (.002)    | I 4.7 (1.1)      | I 152.3 ( 14.8)      |
| I 8.50     | I 14.13 ( .23)   | I 3.25 (.003)    | I 4.4 (1.1)      | I                    |
| I 4.25     | I 14.41 ( .31)   | I 3.22 (.003)    | I 4.3 (1.1)      | I                    |
| I 2.13     | I 14.73 ( .36)   | I 3.42 (.003)    | I 3.9 (1.0)      | I                    |
| I 1.06     | I 15.25 ( .41)   | I 3.37 (.003)    | I 3.6 ( .9)      | I                    |
| I .00      | I 23.88          | I                |                  |                      |
| I -.02     | I 19.49          | I                |                  |                      |
| I -.05     | I 18.81          | I                |                  |                      |
| I -.10     | I 15.05          | I                |                  |                      |
| I -.23     | I 8.84           | I                |                  |                      |
| I -.51     | I 6.25           | I                |                  |                      |

----->>> 1530 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 295.9 ( 51.1) W/M\*\*2 458.2 ( 60.0) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 14.02 ( .18)   | I 3.41 (.006)    | I 5.6 (1.4)      | I 140.4 ( 14.5)      |
| I 8.50     | I 14.22 ( .21)   | I 3.37 (.006)    | I 5.3 (1.3)      | I                    |
| I 4.25     | I 14.54 ( .22)   | I 3.34 (.006)    | I 5.1 (1.3)      | I                    |
| I 2.13     | I 14.91 ( .22)   | I 3.55 (.006)    | I 4.6 (1.3)      | I                    |
| I 1.06     | I 15.48 ( .22)   | I 3.54 (.006)    | I 4.2 (1.2)      | I                    |
| I .00      | I 23.87          | I                |                  |                      |
| I -.02     | I 19.54          | I                |                  |                      |
| I -.05     | I 18.50          | I                |                  |                      |
| I -.10     | I 15.15          | I                |                  |                      |
| I -.23     | I 8.96           | I                |                  |                      |
| I -.51     | I 6.25           | I                |                  |                      |

&gt;&gt;&gt; 80-05-07 1600 LT S Y N O P &lt;&lt;&lt;

| CLOUDS          |       |        |           |          |            |           |
|-----------------|-------|--------|-----------|----------|------------|-----------|
| I               | N     | LOW    | MID-HIGH  | BASE (M) | I          | I         |
| I               | 3/8   | /8     | CS        | 5000     | I          | I         |
| -----           |       |        |           |          |            |           |
| PRESSURE (MB)   |       |        |           | I        | VISIBILITY | I WEATHER |
| QFE QFF I UG VG |       |        |           | I        | (KM)       | I         |
| I               | 996.6 | 1005.0 | I .1 12.2 | I        | >20        | I         |

----->>> 1600 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 295.0 ( 12.9) W/M\*\*2 462.1 ( 15.4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 13.92 ( .18)   | I 3.61 (.004)    | I 5.8 (1.2)      | I 130.0 ( 16.2)      |
| I 8.50     | I 14.15 ( .21)   | I 3.56 (.004)    | I 5.6 (1.2)      | I                    |
| I 4.25     | I 14.40 ( .26)   | I 3.52 (.004)    | I 5.4 (1.1)      | I                    |
| I 2.13     | I 14.79 ( .25)   | I 3.73 (.004)    | I 4.9 (1.1)      | I                    |
| I 1.06     | I 15.39 ( .26)   | I 3.74 (.004)    | I 4.4 (1.0)      | I                    |
| I .00      | I 22.85          | I                |                  |                      |
| I -.02     | I 19.26          | I                |                  |                      |
| I -.05     | I 18.17          | I                |                  |                      |
| I -.10     | I 15.20          | I                |                  |                      |
| I -.23     | I 9.09           | I                |                  |                      |
| I -.51     | I 6.25           | I                |                  |                      |

----->>> 1630 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 224.7 ( 19.2) W/M\*\*2 385.2 ( 23.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 13.32 ( .23)   | I 3.96 (.004)    | I 7.5 ( .9)      | I 117.2 ( 9.5)       |
| I 8.50     | I 13.58 ( .23)   | I 3.93 (.004)    | I 7.1 (1.0)      | I                    |
| I 4.25     | I 13.86 ( .25)   | I 3.86 (.004)    | I 6.8 (1.0)      | I                    |
| I 2.13     | I 14.26 ( .24)   | I 4.08 (.004)    | I 6.2 (1.0)      | I                    |
| I 1.06     | I 14.75 ( .26)   | I 4.01 (.004)    | I 5.6 (1.0)      | I                    |
| I .00      | I 20.43          | I                |                  |                      |
| I -.02     | I 18.82          | I                |                  |                      |
| I -.05     | I 17.76          | I                |                  |                      |
| I -.10     | I 15.19          | I                |                  |                      |
| I -.23     | I 9.23           | I                |                  |                      |
| I -.51     | I 6.25           | I                |                  |                      |

| CLOUDS |               |        |          |          |            |   |   |
|--------|---------------|--------|----------|----------|------------|---|---|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I          | I | I |
| I      | 3/8           | /8     | CI       | 5000     | I          | I | I |
| -----  |               |        |          |          |            |   |   |
| I      | PRESSURE (MB) |        |          | I        | VISIBILITY |   | I |
| I      | QFE QFF I     |        |          | I        | (KM)       |   | I |
| I      | 996.6         | 1004.9 | I        | I        | 10         | I | I |

----->>> 1700 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 105.1 ( 23.9) W/M\*\*2 243.6 ( 29.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 12.78 ( .12)   | I 4.13 (.002)    | I 8.1 ( .8)      | I 115.3 ( 7.6)       |
| I 8.50     | I 13.01 ( .13)   | I 4.11 (.002)    | I 7.5 ( .9)      | I                    |
| I 4.25     | I 13.22 ( .15)   | I 4.03 (.003)    | I 7.1 ( .9)      | I                    |
| I 2.13     | I 13.47 ( .15)   | I 4.24 (.003)    | I 6.5 ( .9)      | I                    |
| I 1.06     | I 13.78 ( .16)   | I 4.11 (.003)    | I 5.8 ( .9)      | I                    |
| I .00      | I 17.11          | I                |                  |                      |
| I -.02     | I 17.48          | I                |                  |                      |
| I -.05     | I 16.95          | I                |                  |                      |
| I -.10     | I 15.13          | I                |                  |                      |
| I -.23     | I 9.37           | I                |                  |                      |
| I -.51     | I 6.26           | I                |                  |                      |

----->>> 1730 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 65.4 ( 20.0) W/M\*\*2 191.0 ( 24.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 12.35 ( .08)   | I 4.20 (.001)    | I 7.8 ( .9)      | I 123.0 ( 5.6)       |
| I 8.50     | I 12.54 ( .09)   | I 4.17 (.002)    | I 7.2 ( .9)      | I                    |
| I 4.25     | I 12.73 ( .11)   | I 4.10 (.002)    | I 6.9 (1.0)      | I                    |
| I 2.13     | I 12.92 ( .11)   | I 4.29 (.002)    | I 6.2 (1.0)      | I                    |
| I 1.06     | I 13.15 ( .12)   | I 4.16 (.002)    | I 5.5 ( .9)      | I                    |
| I .00      | I 16.23          | I                |                  |                      |
| I -.02     | I 16.46          | I                |                  |                      |
| I -.05     | I 16.07          | I                |                  |                      |
| I -.10     | I 14.93          | I                |                  |                      |
| I -.23     | I 9.49           | I                |                  |                      |
| I -.51     | I 6.28           | I                |                  |                      |

&gt;&gt;&gt; 80-05-07 1800 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |               |        |          |          |            | SOILWATER |   |
|--------|---------------|--------|----------|----------|------------|-----------|---|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I          | I         | I |
| I      | 2/8           | /8     | CS       | 5000     | I          | I         | I |
| -----  |               |        |          |          |            |           |   |
| I      | PRESSURE (MB) |        |          | I        | VISIBILITY |           | I |
| I      | QFE QFF I     |        |          | I        | (KM)       |           | I |
| I      | 996.3         | 1004.7 | I        | I        | 10         | I         | I |

----->>> 1800 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 14.1 ( 10.7) W/M\*\*2 135.3 ( 13.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 11.88 ( .60)   | I 4.13 (.001)    | I 7.3 ( .9)      | I 115.2 ( 7.3)       |
| I 8.50     | I 12.02 ( .60)   | I 4.12 (.001)    | I 6.7 (1.0)      | I                    |
| I 4.25     | I 12.12 ( .58)   | I 4.04 (.001)    | I 6.4 ( .9)      | I                    |
| I 2.13     | I 12.24 ( .60)   | I 4.24 (.001)    | I 5.8 ( .8)      | I                    |
| I 1.06     | I 12.38 ( .57)   | I 4.09 (.001)    | I 5.1 ( .9)      | I                    |
| I .00      | I 14.37          | I                |                  |                      |
| I -.02     | I 15.34          | I                |                  |                      |
| I -.05     | I 15.23          | I                |                  |                      |
| I -.10     | I 14.66          | I                |                  |                      |
| I -.23     | I 9.62           | I                |                  |                      |
| I -.51     | I 6.29           | I                |                  |                      |

----->>> 1830 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -14.6 ( 8.0) W/M\*\*2 103.6 ( 7.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 11.40 ( .10)   | I 4.10 (.001)    | I 6.9 (1.0)      | I 116.6 ( 5.7)       |
| I 8.50     | I 11.51 ( .10)   | I 4.10 (.001)    | I 6.4 ( .9)      | I                    |
| I 4.25     | I 11.57 ( .10)   | I 4.01 (.001)    | I 6.0 ( .9)      | I                    |
| I 2.13     | I 11.65 ( .10)   | I 4.20 (.001)    | I 5.3 ( .8)      | I                    |
| I 1.06     | I 11.73 ( .11)   | I 4.04 (.001)    | I 4.8 ( .8)      | I                    |
| I .00      | I 13.12          | I                |                  |                      |
| I -.02     | I 14.42          | I                |                  |                      |
| I -.05     | I 14.43          | I                |                  |                      |
| I -.10     | I 14.32          | I                |                  |                      |
| I -.23     | I 9.74           | I                |                  |                      |
| I -.51     | I 6.31           | I                |                  |                      |

&gt;&gt;&gt; 80-05-07 1900 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS                                                  |        |          |          | PRESIPITATION |  |
|---------------------------------------------------------|--------|----------|----------|---------------|--|
| N                                                       | LOW    | MID-HIGH | BASE (M) | SINCE 07LT    |  |
| 4/8                                                     | /8     | CS       | 7000     | (MM)          |  |
| PRESSURE (MB) GEOSTROPHIC WIND (M/S) VISIBILITY WEATHER |        |          |          |               |  |
| QFE                                                     | QFF    | UG       | VG       | (KM)          |  |
| 996.1                                                   | 1004.5 | -3       | 12.2     | 10            |  |

1900 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -62.8 ( 4.1) W/M\*\*2 45.5 ( 6.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 10.64 ( .12)     | 4.10 (.002)      | 6.6 ( .7)        | 110.9 ( 6.3)         |
| 8.50       | 10.66 ( .13)     | 4.11 (.003)      | 5.9 ( .7)        |                      |
| 4.25       | 10.65 ( .14)     | 4.00 (.003)      | 5.5 ( .8)        |                      |
| 2.13       | 10.66 ( .16)     | 4.19 (.003)      | 4.9 ( .7)        |                      |
| 1.06       | 10.66 ( .17)     | 4.00 (.003)      | 4.4 ( .7)        |                      |
| .00        | 11.58            |                  |                  |                      |
| -.02       | 13.46            |                  |                  |                      |
| -.05       | 13.68            |                  |                  |                      |
| -.10       | 13.95            |                  |                  |                      |
| -.23       | 9.84             |                  |                  |                      |
| -.51       | 6.33             |                  |                  |                      |

1930 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -78.0 ( 3.6) W/M\*\*2 18.9 ( 5.8) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 10.03 ( .21)     | 4.18 (.002)      | 5.5 ( .6)        | 115.4 ( 4.5)         |
| 8.50       | 9.96 ( .24)      | 4.19 (.002)      | 4.7 ( .7)        |                      |
| 4.25       | 9.89 ( .26)      | 4.05 (.002)      | 4.3 ( .6)        |                      |
| 2.13       | 9.84 ( .27)      | 4.24 (.002)      | 3.7 ( .6)        |                      |
| 1.06       | 9.79 ( .28)      | 4.03 (.002)      | 3.3 ( .6)        |                      |
| .00        | 10.39            |                  |                  |                      |
| -.02       | 12.47            |                  |                  |                      |
| -.05       | 12.92            |                  |                  |                      |
| -.10       | 13.54            |                  |                  |                      |
| -.23       | 9.90             |                  |                  |                      |
| -.51       | 6.33             |                  |                  |                      |

&gt;&gt;&gt; 80-05-07 2000 LT S Y N O P &lt;&lt;&lt;

| CLOUDS                                                  |        |          |          | PRESIPITATION |  |
|---------------------------------------------------------|--------|----------|----------|---------------|--|
| N                                                       | LOW    | MID-HIGH | BASE (M) | SINCE 07LT    |  |
| 6/8                                                     | /8     | CS       | 7000     | (MM)          |  |
| PRESSURE (MB) GEOSTROPHIC WIND (M/S) VISIBILITY WEATHER |        |          |          |               |  |
| QFE                                                     | QFF    | UG       | VG       | (KM)          |  |
| 996.2                                                   | 1004.7 |          |          | 10            |  |

2000 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -85.9 ( 1.7) W/M\*\*2 1.4 ( 1.5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 9.19 ( .20)      | 4.20 (.002)      | 5.3 ( .5)        | 115.7 ( 4.5)         |
| 8.50       | 9.01 ( .24)      | 4.21 (.002)      | 4.4 ( .5)        |                      |
| 4.25       | 8.88 ( .25)      | 4.05 (.002)      | 3.8 ( .5)        |                      |
| 2.13       | 8.80 ( .27)      | 4.23 (.002)      | 3.3 ( .5)        |                      |
| 1.06       | 8.73 ( .27)      | 4.01 (.002)      | 3.0 ( .5)        |                      |
| .00        | 9.12             |                  |                  |                      |
| -.02       | 11.58            |                  |                  |                      |
| -.05       | 12.20            |                  |                  |                      |
| -.10       | 13.12            |                  |                  |                      |
| -.23       | 9.96             |                  |                  |                      |
| -.51       | 6.33             |                  |                  |                      |

2030 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -80.7 ( 2.9) W/M\*\*2 -1.9 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 8.47 ( .13)      | 4.18 (.001)      | 4.8 ( .4)        | 108.1 ( 5.0)         |
| 8.50       | 8.27 ( .13)      | 4.22 (.002)      | 4.1 ( .5)        |                      |
| 4.25       | 8.11 ( .15)      | 4.05 (.002)      | 3.6 ( .5)        |                      |
| 2.13       | 8.00 ( .16)      | 4.24 (.001)      | 3.0 ( .5)        |                      |
| 1.06       | 7.92 ( .16)      | 4.00 (.001)      | 2.7 ( .5)        |                      |
| .00        | 8.26             |                  |                  |                      |
| -.02       | 10.81            |                  |                  |                      |
| -.05       | 11.52            |                  |                  |                      |
| -.10       | 12.72            |                  |                  |                      |
| -.23       | 10.01            |                  |                  |                      |
| -.51       | 6.35             |                  |                  |                      |

| CLOUDS            |     |     |          |                |   |             |   |
|-------------------|-----|-----|----------|----------------|---|-------------|---|
| I                 | N   | LOW | MID-HIGH | BASE (M)       | I | I           | I |
| I                 | 7/8 | /8  | CS       | 7000           | I | I           | I |
| I PRESSURE (MB) I |     |     |          | I VISIBILITY I |   | I WEATHER I |   |
| I QFE QFF I       |     |     |          | I (KM) I       |   | I I         |   |
| I 996.4 1005.0 I  |     |     |          | I 10 I         |   | I I         |   |

----->>> 2100 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -67.3 ( 1.6) W/M\*\*2 -2.0 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.88 ( .08)    | I 4.19 (.002)    | I 4.4 ( .3)      | I 107.6 ( 4.5) I     |
| I 8.50     | I 7.71 ( .07)    | I 4.25 (.002)    | I 3.7 ( .3)      | I I                  |
| I 4.25     | I 7.56 ( .07)    | I 4.07 (.002)    | I 3.2 ( .3)      | I I                  |
| I 2.13     | I 7.46 ( .06)    | I 4.26 (.001)    | I 2.7 ( .3)      | I I                  |
| I 1.06     | I 7.40 ( .06)    | I 4.03 (.002)    | I 2.4 ( .3)      | I I                  |
| I .00      | I 7.94           | I                |                  |                      |
| I -.02     | I 10.26          | I                |                  |                      |
| I -.05     | I 10.98          | I                |                  |                      |
| I -.10     | I 12.31          | I                |                  |                      |
| I -.23     | I 10.04          | I                |                  |                      |
| I -.51     | I 6.37           | I                |                  |                      |

----->>> 2130 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -64.9 ( 2.0) W/M\*\*2 -1.8 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.44 ( .07)    | I 4.21 (.001)    | I 4.2 ( .3)      | I 102.4 ( 3.2) I     |
| I 8.50     | I 7.28 ( .07)    | I 4.27 (.002)    | I 3.5 ( .4)      | I I                  |
| I 4.25     | I 7.13 ( .08)    | I 4.08 (.002)    | I 3.0 ( .3)      | I I                  |
| I 2.13     | I 7.05 ( .08)    | I 4.28 (.001)    | I 2.5 ( .4)      | I I                  |
| I 1.06     | I 6.99 ( .08)    | I 4.04 (.002)    | I 2.2 ( .3)      | I I                  |
| I .00      | I 7.60           | I                |                  |                      |
| I -.02     | I 9.81           | I                |                  |                      |
| I -.05     | I 10.55          | I                |                  |                      |
| I -.10     | I 11.93          | I                |                  |                      |
| I -.23     | I 10.07          | I                |                  |                      |
| I -.51     | I 6.38           | I                |                  |                      |

&gt;&gt;&gt; 80-05-07 2200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS            |     |     |          |                            |   |                |   |
|-------------------|-----|-----|----------|----------------------------|---|----------------|---|
| I                 | N   | LOW | MID-HIGH | BASE (M)                   | I | I              | I |
| I                 | 6/8 | /8  | CS       | 7000                       | I | I              | I |
| I PRESSURE (MB) I |     |     |          | I GEOSTROPHIC WIND (M/S) I |   | I VISIBILITY I |   |
| I QFE QFF I       |     |     |          | I UG VG I                  |   | I (KM) I       |   |
| I 996.1 1004.7 I  |     |     |          | I -.2 10.1 I               |   | I 10 I         |   |

----->>> 2200 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -71.4 ( 2.8) W/M\*\*2 -2.0 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.05 ( .13)    | I 4.22 (.001)    | I 4.0 ( .3)      | I 104.4 ( 3.6) I     |
| I 8.50     | I 6.89 ( .14)    | I 4.27 (.001)    | I 3.4 ( .3)      | I I                  |
| I 4.25     | I 6.71 ( .16)    | I 4.08 (.001)    | I 2.9 ( .3)      | I I                  |
| I 2.13     | I 6.60 ( .16)    | I 4.26 (.001)    | I 2.5 ( .3)      | I I                  |
| I 1.06     | I 6.53 ( .17)    | I 4.02 (.001)    | I 2.1 ( .4)      | I I                  |
| I .00      | I 7.07           | I                |                  |                      |
| I -.02     | I 9.36           | I                |                  |                      |
| I -.05     | I 10.10          | I                |                  |                      |
| I -.10     | I 11.54          | I                |                  |                      |
| I -.23     | I 10.03          | I                |                  |                      |
| I -.51     | I 6.37           | I                |                  |                      |

----->>> 2230 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -74.3 ( .9) W/M\*\*2 -2.1 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.66 ( .06)    | I 4.23 (.001)    | I 4.1 ( .2)      | I 109.8 ( 3.5) I     |
| I 8.50     | I 6.39 ( .09)    | I 4.26 (.001)    | I 3.5 ( .2)      | I I                  |
| I 4.25     | I 6.10 ( .12)    | I 4.05 (.002)    | I 2.8 ( .3)      | I I                  |
| I 2.13     | I 5.94 ( .13)    | I 4.22 (.002)    | I 2.3 ( .3)      | I I                  |
| I 1.06     | I 5.85 ( .13)    | I 3.98 (.002)    | I 2.1 ( .3)      | I I                  |
| I .00      | I 6.31           | I                |                  |                      |
| I -.02     | I 8.84           | I                |                  |                      |
| I -.05     | I 9.64           | I                |                  |                      |
| I -.10     | I 11.17          | I                |                  |                      |
| I -.23     | I 9.98           | I                |                  |                      |
| I -.51     | I 6.35           | I                |                  |                      |

&gt;&gt;&gt; 80-05-07 2300 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS        |       |        |          |          |            |         |
|---------------|-------|--------|----------|----------|------------|---------|
| I             | N     | LOW    | MID-HIGH | BASE (M) | I          | I       |
| I             | 4/8   | /8     | CS       | 7000     | I          | I       |
| -----         |       |        |          |          |            |         |
| PRESSURE (MB) |       |        |          |          | VISIBILITY | WEATHER |
| I             | QFE   | QFF    | I        | I        | (KM)       | I       |
| I             | 996.0 | 1004.6 | I        | I        | 20         | I       |

----->>> 2300 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -69.6 ( 1.0) W/M\*\*2 -1.9 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.28 ( .08)    | I 4.20 (.001)    | I 3.8 ( .2)      | I 110.4 ( 3.7)       |
| I 8.50     | I 5.97 ( .09)    | I 4.25 (.001)    | I 3.2 ( .3)      | I                    |
| I 4.25     | I 5.51 ( .11)    | I 4.00 (.002)    | I 2.6 ( .3)      | I                    |
| I 2.13     | I 5.26 ( .11)    | I 4.16 (.002)    | I 2.0 ( .2)      | I                    |
| I 1.06     | I 5.15 ( .12)    | I 3.90 (.002)    | I 1.7 ( .2)      | I                    |
| I .00      | I 5.78           | I                |                  |                      |
| I -.02     | I 8.39           | I                |                  |                      |
| I -.05     | I 9.19           | I                |                  |                      |
| I -.10     | I 10.81          | I                |                  |                      |
| I -.23     | I 9.93           | I                |                  |                      |
| I -.51     | I 6.35           | I                |                  |                      |

----->>> 2330 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -65.0 ( 1.3) W/M\*\*2 -1.9 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.00 ( .09)    | I 4.20 (.001)    | I 4.1 ( .2)      | I 107.4 ( 3.2)       |
| I 8.50     | I 5.64 ( .11)    | I 4.24 (.002)    | I 3.4 ( .3)      | I                    |
| I 4.25     | I 5.22 ( .05)    | I 4.03 (.002)    | I 2.7 ( .3)      | I                    |
| I 2.13     | I 5.04 ( .05)    | I 4.20 (.002)    | I 2.1 ( .3)      | I                    |
| I 1.06     | I 4.95 ( .06)    | I 3.96 (.002)    | I 1.8 ( .3)      | I                    |
| I .00      | I 5.53           | I                |                  |                      |
| I -.02     | I 8.02           | I                |                  |                      |
| I -.05     | I 8.80           | I                |                  |                      |
| I -.10     | I 10.48          | I                |                  |                      |
| I -.23     | I 9.87           | I                |                  |                      |
| I -.51     | I 6.35           | I                |                  |                      |

&gt;&gt;&gt; 80-05-08 0000 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |       |        |          |          |            |         |
|---------------|-------|--------|----------|----------|------------|---------|
| I             | N     | LOW    | MID-HIGH | BASE (M) | I          | I       |
| I             | 4/8   | /8     | CS       | 7000     | I          | I       |
| -----         |       |        |          |          |            |         |
| PRESSURE (MB) |       |        |          |          | VISIBILITY | WEATHER |
| I             | QFE   | QFF    | I        | I        | (KM)       | I       |
| I             | 995.8 | 1004.4 | I        | I        | 20         | I       |

----->>> 0000 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -66.0 ( 1.5) W/M\*\*2 -2.0 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.73 ( .05)    | I 4.24 (.001)    | I 4.3 ( .2)      | I 104.1 ( 2.8)       |
| I 8.50     | I 5.40 ( .05)    | I 4.31 (.002)    | I 3.7 ( .3)      | I                    |
| I 4.25     | I 5.16 ( .04)    | I 4.13 (.002)    | I 3.0 ( .3)      | I                    |
| I 2.13     | I 5.04 ( .04)    | I 4.28 (.001)    | I 2.5 ( .3)      | I                    |
| I 1.06     | I 4.97 ( .04)    | I 4.08 (.002)    | I 2.1 ( .3)      | I                    |
| I .00      | I 5.39           | I                |                  |                      |
| I -.02     | I 7.73           | I                |                  |                      |
| I -.05     | I 8.48           | I                |                  |                      |
| I -.10     | I 10.17          | I                |                  |                      |
| I -.23     | I 9.81           | I                |                  |                      |
| I -.51     | I 6.37           | I                |                  |                      |

----->>> 0030 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -63.6 ( 1.7) W/M\*\*2 -1.9 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.54 ( .05)    | I 4.26 (.001)    | I 4.4 ( .2)      | I 105.3 ( 2.9)       |
| I 8.50     | I 5.23 ( .07)    | I 4.34 (.001)    | I 3.8 ( .2)      | I                    |
| I 4.25     | I 4.93 ( .07)    | I 4.16 (.001)    | I 3.1 ( .3)      | I                    |
| I 2.13     | I 4.80 ( .07)    | I 4.29 (.001)    | I 2.5 ( .3)      | I                    |
| I 1.06     | I 4.74 ( .07)    | I 4.11 (.001)    | I 2.2 ( .3)      | I                    |
| I .00      | I 5.16           | I                |                  |                      |
| I -.02     | I 7.44           | I                |                  |                      |
| I -.05     | I 8.19           | I                |                  |                      |
| I -.10     | I 9.89           | I                |                  |                      |
| I -.23     | I 9.76           | I                |                  |                      |
| I -.51     | I 6.38           | I                |                  |                      |

| CLOUDS        |        |                        |          | PRESIPITATION |        |
|---------------|--------|------------------------|----------|---------------|--------|
| I N           | LOW    | MID-HIGH               | BASE (M) | I SINCE 13LT  | I      |
| I 4/8         | /8     | CS                     | 7000     | I             | (MM)   |
| I             |        |                        |          |               |        |
| PRESSURE (MB) |        | GEOSTROPHIC WIND (M/S) |          | VISIBILITY    |        |
| I QFE         | I QFF  | I UG                   | VG       | UG-850-VG     | I (KM) |
| I 995.3       | 1003.9 | I -3.4                 | 9.2      | -2.4 9.0      | I 20   |
| I             |        |                        |          |               |        |

----->>> 0100 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -59.8 ( 1.2) W/M\*\*2 -1.8 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.24 ( .11)    | I 4.24 (.001)    | I 4.4 ( .3)      | I 105.1 ( 3.6)       |
| I 8.50     | I 4.98 ( .09)    | I 4.31 (.001)    | I 3.7 ( .2)      | I                    |
| I 4.25     | I 4.78 ( .06)    | I 4.17 (.001)    | I 3.1 ( .3)      | I                    |
| I 2.13     | I 4.67 ( .05)    | I 4.30 (.001)    | I 2.6 ( .3)      | I                    |
| I 1.06     | I 4.61 ( .05)    | I 4.14 (.001)    | I 2.3 ( .3)      | I                    |
| I .00      | I 5.04           | I                |                  |                      |
| I -.02     | I 7.21           | I                |                  |                      |
| I -.05     | I 7.92           | I                |                  |                      |
| I -.10     | I 9.61           | I                |                  |                      |
| I -.23     | I 9.70           | I                |                  |                      |
| I -.51     | I 6.39           | I                |                  |                      |

----->>> 0130 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -53.7 ( 1.5) W/M\*\*2 -1.6 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.86 ( .09)    | I 4.23 (.001)    | I 4.4 ( .3)      | I 103.8 ( 4.1)       |
| I 8.50     | I 4.71 ( .03)    | I 4.31 (.001)    | I 3.8 ( .3)      | I                    |
| I 4.25     | I 4.61 ( .03)    | I 4.17 (.001)    | I 3.3 ( .3)      | I                    |
| I 2.13     | I 4.56 ( .04)    | I 4.31 (.001)    | I 2.8 ( .3)      | I                    |
| I 1.06     | I 4.53 ( .05)    | I 4.17 (.001)    | I 2.5 ( .3)      | I                    |
| I .00      | I 5.03           | I                |                  |                      |
| I -.02     | I 7.02           | I                |                  |                      |
| I -.05     | I 7.70           | I                |                  |                      |
| I -.10     | I 9.35           | I                |                  |                      |
| I -.23     | I 9.62           | I                |                  |                      |
| I -.51     | I 6.40           | I                |                  |                      |

&gt;&gt;&gt; 80-05-08 0200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |        |                        |          | PRESIPITATION |        |
|---------------|--------|------------------------|----------|---------------|--------|
| I N           | LOW    | MID-HIGH               | BASE (M) | I SINCE 13LT  | I      |
| I 7/8         | /8     | CS                     | 6000     | I             | (MM)   |
| I             |        |                        |          |               |        |
| PRESSURE (MB) |        | GEOSTROPHIC WIND (M/S) |          | VISIBILITY    |        |
| I QFE         | I QFF  | I UG                   | VG       | UG-850-VG     | I (KM) |
| I 995.0       | 1003.6 | I                      |          |               | I 20   |
| I             |        |                        |          |               |        |

----->>> 0200 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -54.4 ( 2.7) W/M\*\*2 -1.4 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.46 ( .11)    | I 4.21 (.001)    | I 4.2 ( .5)      | I 98.4 ( 3.5)        |
| I 8.50     | I 4.44 ( .10)    | I 4.29 (.001)    | I 3.5 ( .5)      | I                    |
| I 4.25     | I 4.39 ( .09)    | I 4.15 (.001)    | I 3.2 ( .4)      | I                    |
| I 2.13     | I 4.35 ( .08)    | I 4.28 (.001)    | I 2.8 ( .4)      | I                    |
| I 1.06     | I 4.33 ( .08)    | I 4.15 (.001)    | I 2.5 ( .4)      | I                    |
| I .00      | I 4.87           | I                |                  |                      |
| I -.02     | I 6.83           | I                |                  |                      |
| I -.05     | I 7.49           | I                |                  |                      |
| I -.10     | I 9.11           | I                |                  |                      |
| I -.23     | I 9.55           | I                |                  |                      |
| I -.51     | I 6.42           | I                |                  |                      |

----->>> 0230 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -41.8 ( 1.8) W/M\*\*2 -1.1 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.09 ( .05)    | I 4.16 (.001)    | I 4.1 ( .5)      | I 100.6 ( 4.5)       |
| I 8.50     | I 4.10 ( .03)    | I 4.23 (.001)    | I 3.4 ( .5)      | I                    |
| I 4.25     | I 4.09 ( .02)    | I 4.09 (.001)    | I 3.1 ( .5)      | I                    |
| I 2.13     | I 4.09 ( .02)    | I 4.24 (.001)    | I 2.7 ( .5)      | I                    |
| I 1.06     | I 4.10 ( .02)    | I 4.11 (.001)    | I 2.3 ( .5)      | I                    |
| I .00      | I 4.93           | I                |                  |                      |
| I -.02     | I 6.70           | I                |                  |                      |
| I -.05     | I 7.32           | I                |                  |                      |
| I -.10     | I 8.90           | I                |                  |                      |
| I -.23     | I 9.46           | I                |                  |                      |
| I -.51     | I 6.42           | I                |                  |                      |

| CLOUDS |               |        |          | BASE (M) |            | VISIBILITY |   | WEATHER |         |
|--------|---------------|--------|----------|----------|------------|------------|---|---------|---------|
| I      | N             | LOW    | MID-HIGH | I        | I          | I          | I | I       | I       |
| I      | 8/8           | /8     | AC CS    | I        | I          | I          | I | I       | I       |
| I      |               |        |          | I        | 4000       | I          |   | I       |         |
| I      | PRESSURE (MB) |        |          | I        | VISIBILITY |            |   | I       | WEATHER |
| I      | QFE           |        |          | I        | (KM)       |            |   | I       |         |
| I      | 994.7         | 1003.3 | I        | I        | 5          | I          |   | I       |         |

----->>> 0300 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -36.5 ( .5) W/M\*\*2 -9 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.00 ( .03)    | I 4.17 (.001)    | I 2.7 ( .5)      | I 86.5 ( 7.0)        |
| I 8.50     | I 4.07 ( .04)    | I 4.26 (.001)    | I 2.3 ( .6)      | I                    |
| I 4.25     | I 4.08 ( .04)    | I 4.11 (.001)    | I 2.3 ( .5)      | I                    |
| I 2.13     | I 4.10 ( .04)    | I 4.26 (.001)    | I 1.9 ( .5)      | I                    |
| I 1.06     | I 4.11 ( .03)    | I 4.13 (.001)    | I 1.6 ( .5)      | I                    |
| I .00      | I 5.04           | I                |                  |                      |
| I -.02     | I 6.62           | I                |                  |                      |
| I -.05     | I 7.19           | I                |                  |                      |
| I -.10     | I 8.69           | I                |                  |                      |
| I -.23     | I 9.38           | I                |                  |                      |
| I -.51     | I 6.44           | I                |                  |                      |

----->>> 0330 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -47.9 ( 2.1) W/M\*\*2 -3 ( .3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.07 ( .03)    | I 4.16 (.001)    | I 2.3 ( .3)      | I 74.2 ( 6.2)        |
| I 8.50     | I 4.10 ( .02)    | I 4.24 (.001)    | I 2.0 ( .2)      | I                    |
| I 4.25     | I 4.07 ( .03)    | I 4.06 (.001)    | I 1.9 ( .3)      | I                    |
| I 2.13     | I 4.03 ( .06)    | I 4.21 (.001)    | I 1.6 ( .3)      | I                    |
| I 1.06     | I 3.99 ( .07)    | I 4.03 (.001)    | I 1.3 ( .3)      | I                    |
| I .00      | I 4.69           | I                |                  |                      |
| I -.02     | I 6.48           | I                |                  |                      |
| I -.05     | I 7.06           | I                |                  |                      |
| I -.10     | I 8.52           | I                |                  |                      |
| I -.23     | I 9.29           | I                |                  |                      |
| I -.51     | I 6.44           | I                |                  |                      |

&gt;&gt;&gt; 80-05-08 0400 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |               |        |          | BASE (M) |            | VISIBILITY |   | WEATHER |         |
|--------|---------------|--------|----------|----------|------------|------------|---|---------|---------|
| I      | N             | LOW    | MID-HIGH | I        | I          | I          | I | I       | I       |
| I      | 8/8           | /8     | AC CS    | I        | I          | I          | I | I       | I       |
| I      |               |        |          | I        | 4000       | I          |   | I       |         |
| I      | PRESSURE (MB) |        |          | I        | VISIBILITY |            |   | I       | WEATHER |
| I      | QFE           |        |          | I        | (KM)       |            |   | I       |         |
| I      | 994.1         | 1002.7 | I        | I        | 6          | I          |   | I       |         |

----->>> 0400 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -34.3 ( 3.2) W/M\*\*2 7.5 ( 2.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.02 ( .06)    | I 4.13 (.001)    | I 2.0 ( .3)      | I 78.8 ( 5.7)        |
| I 8.50     | I 4.02 ( .04)    | I 4.23 (.001)    | I 1.7 ( .3)      | I                    |
| I 4.25     | I 3.95 ( .02)    | I 4.01 (.001)    | I 1.5 ( .2)      | I                    |
| I 2.13     | I 3.90 ( .04)    | I 4.20 (.001)    | I 1.1 ( .2)      | I                    |
| I 1.06     | I 3.88 ( .06)    | I 3.99 (.001)    | I .9 ( .2)       | I                    |
| I .00      | I 4.61           | I                |                  |                      |
| I -.02     | I 6.32           | I                |                  |                      |
| I -.05     | I 6.89           | I                |                  |                      |
| I -.10     | I 8.35           | I                |                  |                      |
| I -.23     | I 9.22           | I                |                  |                      |
| I -.51     | I 6.45           | I                |                  |                      |

----->>> 0430 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -11.8 ( 10.1) W/M\*\*2 26.9 ( 11.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 3.96 ( .04)    | I 4.17 (.001)    | I 1.9 ( .3)      | I 81.6 ( 7.3)        |
| I 8.50     | I 4.04 ( .04)    | I 4.29 (.001)    | I 1.5 ( .3)      | I                    |
| I 4.25     | I 4.07 ( .05)    | I 4.09 (.001)    | I 1.4 ( .2)      | I                    |
| I 2.13     | I 4.10 ( .06)    | I 4.30 (.001)    | I 1.2 ( .3)      | I                    |
| I 1.06     | I 4.14 ( .07)    | I 4.10 (.001)    | I 1.0 ( .3)      | I                    |
| I .00      | I 5.22           | I                |                  |                      |
| I -.02     | I 6.35           | I                |                  |                      |
| I -.05     | I 6.82           | I                |                  |                      |
| I -.10     | I 8.19           | I                |                  |                      |
| I -.23     | I 9.13           | I                |                  |                      |
| I -.51     | I 6.47           | I                |                  |                      |

| CLOUDS |               |     |          | BASE (M) |   | VISIBILITY |   | WEATHER   |  |
|--------|---------------|-----|----------|----------|---|------------|---|-----------|--|
| I      | N             | LOW | MID-HIGH |          |   | I          | I |           |  |
| I      | 8/8           | /8  | AC CS    | 4000     |   | I          | I |           |  |
| I      |               |     |          |          | I |            |   |           |  |
| I      | PRESSURE (MB) |     |          |          | I | VISIBILITY |   | I WEATHER |  |
| I      | QFE QFF       |     |          |          | I | (KM)       |   | I         |  |
| I      | 993.2 1001.8  |     |          |          | I | 6          |   | I         |  |

>>> 0500 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 34.8 ( 6.1) W/M\*\*2 83.1 ( 3.3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.47 ( .18)    | I 4.30 (.000)    | I 2.2 ( .4)      | I 85.2 ( 10.6)       |
| I 8.50     | I 4.59 ( .16)    | I 4.42 (.000)    | I 1.9 ( .5)      | I                    |
| I 4.25     | I 4.64 ( .16)    | I 4.25 (.001)    | I 1.9 ( .5)      | I                    |
| I 2.13     | I 4.74 ( .19)    | I 4.45 (.000)    | I 1.7 ( .5)      | I                    |
| I 1.06     | I 4.85 ( .15)    | I 4.32 (.001)    | I 1.4 ( .5)      | I                    |
| I .00      | I 7.07           | I                |                  |                      |
| I -.02     | I 6.75           | I                |                  |                      |
| I -.05     | I 7.00           | I                |                  |                      |
| I -.10     | I 8.05           | I                |                  |                      |
| I -.23     | I 9.03           | I                |                  |                      |
| I -.51     | I 6.47           | I                |                  |                      |

>>> 0530 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 9.1 ( 8.5) W/M\*\*2 55.5 ( 5.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.84 ( .10)    | I 4.38 (.001)    | I 3.6 ( .7)      | I 91.9 ( 6.6)        |
| I 8.50     | I 4.96 ( .09)    | I 4.46 (.001)    | I 3.2 ( .8)      | I                    |
| I 4.25     | I 5.03 ( .09)    | I 4.32 (.001)    | I 3.2 ( .7)      | I                    |
| I 2.13     | I 5.13 ( .07)    | I 4.49 (.001)    | I 2.7 ( .7)      | I                    |
| I 1.06     | I 5.22 ( .06)    | I 4.37 (.001)    | I 2.2 ( .7)      | I                    |
| I .00      | I 6.92           | I                |                  |                      |
| I -.02     | I 7.02           | I                |                  |                      |
| I -.05     | I 7.30           | I                |                  |                      |
| I -.10     | I 8.07           | I                |                  |                      |
| I -.23     | I 9.03           | I                |                  |                      |
| I -.51     | I 6.56           | I                |                  |                      |

&gt;&gt;&gt; 80-05-08 0600 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |               |        |          | BASE (M) |   | SOILWATER  |              |
|--------|---------------|--------|----------|----------|---|------------|--------------|
| I      | N             | LOW    | MID-HIGH |          |   | I          | I            |
| I      | 8/8           | 6/8 CU | AC X     | 1500     |   | I          | I 60.62 (MM) |
| I      |               |        |          |          | I |            |              |
| I      | PRESSURE (MB) |        |          |          | I | VISIBILITY |              |
| I      | QFE QFF       |        |          |          | I | (KM)       |              |
| I      | 992.6 1001.2  |        |          |          | I | 5          |              |

>>> 0600 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 48.3 ( 13.5) W/M\*\*2 103.6 ( 12.0) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.97 ( .06)    | I 4.39 (.001)    | I 3.9 ( .6)      | I 96.8 ( 7.1)        |
| I 8.50     | I 5.10 ( .07)    | I 4.47 (.001)    | I 3.5 ( .7)      | I                    |
| I 4.25     | I 5.19 ( .07)    | I 4.35 (.001)    | I 3.5 ( .5)      | I                    |
| I 2.13     | I 5.31 ( .07)    | I 4.52 (.001)    | I 3.1 ( .6)      | I                    |
| I 1.06     | I 5.44 ( .09)    | I 4.44 (.001)    | I 2.6 ( .6)      | I                    |
| I .00      | I 6.16           | I                |                  |                      |
| I -.02     | I 5.57           | I                |                  |                      |
| I -.05     | I 6.00           | I                |                  |                      |
| I -.10     | I 6.39           | I                |                  |                      |
| I -.23     | I 7.20           | I                |                  |                      |
| I -.51     | I 5.16           | I                |                  |                      |

>>> 0630 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 73.4 ( 11.1) W/M\*\*2 106.5 ( 14.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.30 ( .14)    | I 4.49 (.001)    | I 4.0 ( .7)      | I 88.2 ( 7.0)        |
| I 8.50     | I 5.45 ( .14)    | I 4.56 (.001)    | I 3.5 ( .8)      | I                    |
| I 4.25     | I 5.55 ( .13)    | I 4.45 (.001)    | I 3.6 ( .8)      | I                    |
| I 2.13     | I 5.71 ( .13)    | I 4.61 (.001)    | I 3.2 ( .8)      | I                    |
| I 1.06     | I 5.89 ( .14)    | I 4.55 (.001)    | I 2.5 ( .8)      | I                    |
| I .00      | I 8.47           | I                |                  |                      |
| I -.02     | I 7.56           | I                |                  |                      |
| I -.05     | I 7.66           | I                |                  |                      |
| I -.10     | I 8.01           | I                |                  |                      |
| I -.23     | I 8.84           | I                |                  |                      |
| I -.51     | I 6.56           | I                |                  |                      |

&gt;&gt;&gt; 80-05-08 0700 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS        |       |                        |          |            | PRESIPITATION |            |
|---------------|-------|------------------------|----------|------------|---------------|------------|
| I             | N     | LOW                    | MID-HIGH | BASE (M)   | I             | SINCE 19LT |
| I             | 8/8   | 6/8 CU                 | AC       | X 1500     | I             | .0 (MM)    |
| I-----I       |       |                        |          |            |               |            |
| PRESSURE (MB) |       | GEOSTROPHIC WIND (M/S) |          | VISIBILITY |               | WEATHER    |
| I             | QFE   | QFF                    | I        | UG         | VG            | I (KM)     |
| I             | 991.6 | 1000.2                 | I        | -2.4       | 8.0           | I 5        |

----->>> 0700 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 153.1 ( 27.1) W/M\*\*2 213.7 ( 38.0) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.57 ( .08)    | I 4.51 (.000)    | I 4.7 ( .8)      | I 92.4 ( 7.0)        |
| I 8.50     | I 5.74 ( .10)    | I 4.58 (.000)    | I 4.0 (1.0)      | I                    |
| I 4.25     | I 5.90 ( .12)    | I 4.48 (.001)    | I 4.2 ( .9)      | I                    |
| I 2.13     | I 6.12 ( .14)    | I 4.66 (.001)    | I 3.6 ( .8)      | I                    |
| I 1.06     | I 6.37 ( .15)    | I 4.63 (.001)    | I 3.0 ( .8)      | I                    |
| I .00      | I 10.58          | I                |                  |                      |
| I -.02     | I 8.03           | I                |                  |                      |
| I -.05     | I 7.95           | I                |                  |                      |
| I -.10     | I 8.05           | I                |                  |                      |
| I -.23     | I 8.73           | I                |                  |                      |
| I -.51     | I 6.54           | I                |                  |                      |

----->>> 0730 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 54.9 ( 21.1) W/M\*\*2 77.3 ( 26.3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.84 ( .18)    | I 4.67 (.002)    | I 3.8 ( .7)      | I 135.9 ( 7.7)       |
| I 8.50     | I 5.97 ( .17)    | I 4.72 (.002)    | I 3.7 ( .7)      | I                    |
| I 4.25     | I 6.10 ( .14)    | I 4.60 (.002)    | I 3.6 ( .7)      | I                    |
| I 2.13     | I 6.25 ( .12)    | I 4.76 (.003)    | I 3.3 ( .7)      | I                    |
| I 1.06     | I 6.42 ( .09)    | I 4.68 (.003)    | I 3.0 ( .7)      | I                    |
| I .00      | I 9.74           | I                |                  |                      |
| I -.02     | I 8.37           | I                |                  |                      |
| I -.05     | I 8.41           | I                |                  |                      |
| I -.10     | I 8.14           | I                |                  |                      |
| I -.23     | I 8.66           | I                |                  |                      |
| I -.51     | I 6.53           | I                |                  |                      |

&gt;&gt;&gt; 80-05-08 0800 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |       |                        |          |            | PRESIPITATION |            |
|---------------|-------|------------------------|----------|------------|---------------|------------|
| I             | N     | LOW                    | MID-HIGH | BASE (M)   | I             | SINCE 19LT |
| I             | 8/8   | 7/8 CU                 | AC       | X 300      | I             |            |
| I-----I       |       |                        |          |            |               |            |
| PRESSURE (MB) |       | GEOSTROPHIC WIND (M/S) |          | VISIBILITY |               | WEATHER    |
| I             | QFE   | QFF                    | I        | UG         | VG            | I (KM)     |
| I             | 991.7 | 1000.2                 | I        |            |               | I 4 MO DZ  |

----->>> 0800 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 18.1 ( 4.7) W/M\*\*2 32.0 ( 5.4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.32 ( .03)    | I 5.08 (.002)    | I 3.2 ( .3)      | I 108.3 ( 8.9)       |
| I 8.50     | I 6.42 ( .03)    | I 5.21 (.003)    | I 2.9 ( .3)      | I                    |
| I 4.25     | I 6.50 ( .03)    | I 5.09 (.003)    | I 2.8 ( .3)      | I                    |
| I 2.13     | I 6.54 ( .03)    | I 5.30 (.003)    | I 2.5 ( .3)      | I                    |
| I 1.06     | I 6.61 ( .03)    | I 5.17 (.003)    | I 2.3 ( .3)      | I                    |
| I .00      | I 7.79           | I                |                  |                      |
| I -.02     | I 8.06           | I                |                  |                      |
| I -.05     | I 8.24           | I                |                  |                      |
| I -.10     | I 8.25           | I                |                  |                      |
| I -.23     | I 8.59           | I                |                  |                      |
| I -.51     | I 6.54           | I                |                  |                      |

----->>> 0830 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 31.3 ( 10.5) W/M\*\*2 42.8 ( 12.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.58 ( .04)    | I 5.31 (.001)    | I 2.6 ( .4)      | I 119.8 ( 8.8)       |
| I 8.50     | I 6.69 ( .03)    | I 5.44 (.001)    | I 2.5 ( .4)      | I                    |
| I 4.25     | I 6.77 ( .03)    | I 5.31 (.001)    | I 2.5 ( .4)      | I                    |
| I 2.13     | I 6.83 ( .03)    | I 5.53 (.001)    | I 2.2 ( .4)      | I                    |
| I 1.06     | I 6.90 ( .03)    | I 5.39 (.001)    | I 2.0 ( .4)      | I                    |
| I .00      | I 8.36           | I                |                  |                      |
| I -.02     | I 8.11           | I                |                  |                      |
| I -.05     | I 8.18           | I                |                  |                      |
| I -.10     | I 8.29           | I                |                  |                      |
| I -.23     | I 8.54           | I                |                  |                      |
| I -.51     | I 6.57           | I                |                  |                      |

| CLOUDS |               |        |          |          |     |            |           |  |
|--------|---------------|--------|----------|----------|-----|------------|-----------|--|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I   | I          | I         |  |
| I      | 8/8           | 7/8 ST | AC       | X        | 300 | I          | I         |  |
| I      |               |        |          |          |     |            |           |  |
| I      | PRESSURE (MB) |        |          |          | I   | VISIBILITY |           |  |
| I      | QFE QFF I     |        |          |          | I   | (KM)       |           |  |
| I      | 991.7         | 1000.2 | I        |          | I   | 3          | I DZ LH I |  |

>>> 0900 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 28.6 ( 5.5) W/M\*\*2 35.3 ( 6.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.72 ( .04)    | I 5.45 (.001)    | I 4.5 ( .6)      | I 138.5 ( 6.8) I     |
| I 8.50     | I 6.83 ( .03)    | I 5.55 (.001)    | I 4.2 ( .6)      | I I                  |
| I 4.25     | I 6.90 ( .03)    | I 5.44 (.002)    | I 4.0 ( .6)      | I I                  |
| I 2.13     | I 6.95 ( .02)    | I 5.61 (.001)    | I 3.6 ( .6)      | I I                  |
| I 1.06     | I 7.01 ( .02)    | I 5.51 (.002)    | I 3.2 ( .6)      | I I                  |
| I .00      | I 8.08           | I                |                  |                      |
| I -.02     | I 8.07           | I                |                  |                      |
| I -.05     | I 8.15           | I                |                  |                      |
| I -.10     | I 8.29           | I                |                  |                      |
| I -.23     | I 8.49           | I                |                  |                      |
| I -.51     | I 6.58           | I                |                  |                      |

>>> 0930 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 46.1 ( 23.3) W/M\*\*2 57.2 ( 29.5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.86 ( .04)    | I 5.53 (.001)    | I 3.9 ( .5)      | I 138.2 ( 6.5) I     |
| I 8.50     | I 6.96 ( .05)    | I 5.62 (.001)    | I 3.7 ( .5)      | I I                  |
| I 4.25     | I 7.02 ( .06)    | I 5.53 (.001)    | I 3.5 ( .5)      | I I                  |
| I 2.13     | I 7.08 ( .07)    | I 5.70 (.001)    | I 3.1 ( .5)      | I I                  |
| I 1.06     | I 7.14 ( .08)    | I 5.61 (.001)    | I 2.8 ( .5)      | I I                  |
| I .00      | I 7.95           | I                |                  |                      |
| I -.02     | I 8.01           | I                |                  |                      |
| I -.05     | I 8.10           | I                |                  |                      |
| I -.10     | I 8.29           | I                |                  |                      |
| I -.23     | I 8.45           | I                |                  |                      |
| I -.51     | I 6.58           | I                |                  |                      |

&gt;&gt;&gt; 80-05-08 1000 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |                 |        |          |          |     |            |     |  |
|--------|-----------------|--------|----------|----------|-----|------------|-----|--|
| I      | N               | LOW    | MID-HIGH | BASE (M) | I   | I          | I   |  |
| I      | 8/8             | 7/8 ST | AC       | X        | 300 | I          | I   |  |
| I      |                 |        |          |          |     |            |     |  |
| I      | PRESSURE (MB)   |        |          |          | I   | VISIBILITY |     |  |
| I      | QFE QFF I UG VG |        |          |          | I   | (KM)       |     |  |
| I      | 991.5           | 1000.0 | I        | 1.5 7.5  | I   | 3          | I I |  |

>>> 1000 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 210.6 ( 12.4) W/M\*\*2 235.7 ( 21.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.20 ( .09)    | I 5.56 (.001)    | I 5.1 ( .6)      | I 145.5 ( 6.1) I     |
| I 8.50     | I 7.38 ( .10)    | I 5.67 (.001)    | I 4.9 ( .6)      | I I                  |
| I 4.25     | I 7.54 ( .10)    | I 5.63 (.001)    | I 4.7 ( .6)      | I I                  |
| I 2.13     | I 7.73 ( .11)    | I 5.86 (.001)    | I 4.4 ( .6)      | I I                  |
| I 1.06     | I 7.96 ( .12)    | I 5.91 (.001)    | I 3.8 ( .6)      | I I                  |
| I .00      | I 11.01          | I                |                  |                      |
| I -.02     | I 8.91           | I                |                  |                      |
| I -.05     | I 8.53           | I                |                  |                      |
| I -.10     | I 8.28           | I                |                  |                      |
| I -.23     | I 8.40           | I                |                  |                      |
| I -.51     | I 6.58           | I                |                  |                      |

>>> 1030 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 216.2 ( 35.4) W/M\*\*2 245.3 ( 37.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.74 ( .14)    | I 5.72 (.001)    | I 4.1 ( .5)      | I 157.6 ( 7.3) I     |
| I 8.50     | I 7.91 ( .15)    | I 5.83 (.002)    | I 3.9 ( .5)      | I I                  |
| I 4.25     | I 8.06 ( .19)    | I 5.76 (.002)    | I 3.9 ( .5)      | I I                  |
| I 2.13     | I 8.24 ( .22)    | I 5.99 (.002)    | I 3.6 ( .5)      | I I                  |
| I 1.06     | I 8.48 ( .25)    | I 6.02 (.002)    | I 3.2 ( .5)      | I I                  |
| I .00      | I 12.26          | I                |                  |                      |
| I -.02     | I 9.59           | I                |                  |                      |
| I -.05     | I 9.19           | I                |                  |                      |
| I -.10     | I 8.40           | I                |                  |                      |
| I -.23     | I 8.39           | I                |                  |                      |
| I -.51     | I 6.61           | I                |                  |                      |

| CLOUDS |               |        |          |          |     |            |   |   |         |
|--------|---------------|--------|----------|----------|-----|------------|---|---|---------|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I   | I          | I | I | I       |
| I      | 8/8           | 6/8 ST | AS       | X        | 200 | I          | I | I | I       |
| -----  |               |        |          |          |     |            |   |   |         |
| I      | PRESSURE (MB) |        |          |          | I   | VISIBILITY |   | I | WEATHER |
| I      | QFE QFF I     |        |          |          | I   | (KM)       |   | I | I       |
| I      | 991.2         | 999.7  | I        |          | I   | 4          |   | I | I       |

## &gt;&gt;&gt; 1100 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
218.1 ( 35.0) W/M\*\*2 246.4 ( 41.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 8.69 ( .23)    | I 5.94 (.001)    | I 4.1 ( .5)      | I 175.2 ( 11.0)      |
| I 8.50     | I 8.87 ( .23)    | I 6.06 (.001)    | I 3.8 ( .5)      | I                    |
| I 4.25     | I 9.02 ( .23)    | I 5.97 (.001)    | I 3.8 ( .5)      | I                    |
| I 2.13     | I 9.22 ( .23)    | I 6.22 (.001)    | I 3.4 ( .5)      | I                    |
| I 1.06     | I 9.51 ( .23)    | I 6.27 (.001)    | I 3.1 ( .5)      | I                    |
| I .00      | I 13.39          | I                |                  |                      |
| I -.02     | I 10.67          | I                |                  |                      |
| I -.05     | I 10.13          | I                |                  |                      |
| I -.10     | I 8.66           | I                |                  |                      |
| I -.23     | I 8.39           | I                |                  |                      |
| I -.51     | I 6.64           | I                |                  |                      |

## &gt;&gt;&gt; 1130 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
223.2 ( 74.5) W/M\*\*2 263.5 ( 92.5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 9.69 ( .19)    | I 6.01 (.002)    | I 4.5 (1.3)      | I 202.3 ( 15.1)      |
| I 8.50     | I 9.90 ( .23)    | I 6.13 (.002)    | I 4.3 (1.3)      | I                    |
| I 4.25     | I 10.06 ( .29)   | I 6.05 (.002)    | I 4.2 (1.3)      | I                    |
| I 2.13     | I 10.27 ( .32)   | I 6.35 (.002)    | I 3.8 (1.2)      | I                    |
| I 1.06     | I 10.55 ( .36)   | I 6.41 (.002)    | I 3.5 (1.0)      | I                    |
| I .00      | I 13.50          | I                |                  |                      |
| I -.02     | I 11.09          | I                |                  |                      |
| I -.05     | I 10.62          | I                |                  |                      |
| I -.10     | I 8.93           | I                |                  |                      |
| I -.23     | I 8.34           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

## &gt;&gt;&gt; 80-05-08 1200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |               |        |          |          |     |            |   |   |         |
|--------|---------------|--------|----------|----------|-----|------------|---|---|---------|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I   | I          | I | I | I       |
| I      | 8/8           | 8/8 SC | AS       | X        | 500 | I          | I | I | I       |
| -----  |               |        |          |          |     |            |   |   |         |
| I      | PRESSURE (MB) |        |          |          | I   | VISIBILITY |   | I | WEATHER |
| I      | QFE QFF I     |        |          |          | I   | (KM)       |   | I | I       |
| I      | 991.1         | 999.5  | I        |          | I   | 7          |   | I | I       |

## &gt;&gt;&gt; 1200 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
408.2 ( 67.4) W/M\*\*2 491.4 (106.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 10.42 ( .27)   | I 6.03 (.003)    | I 5.1 ( .7)      | I 203.1 ( 12.3)      |
| I 8.50     | I 10.65 ( .26)   | I 6.13 (.004)    | I 4.9 ( .7)      | I                    |
| I 4.25     | I 10.90 ( .31)   | I 6.05 (.004)    | I 4.9 ( .7)      | I                    |
| I 2.13     | I 11.18 ( .31)   | I 6.40 (.005)    | I 4.5 ( .7)      | I                    |
| I 1.06     | I 11.60 ( .34)   | I 6.51 (.004)    | I 4.1 ( .7)      | I                    |
| I .00      | I 16.62          | I                |                  |                      |
| I -.02     | I 12.04          | I                |                  |                      |
| I -.05     | I 11.30          | I                |                  |                      |
| I -.10     | I 9.21           | I                |                  |                      |
| I -.23     | I 8.30           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

## &gt;&gt;&gt; 1230 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
211.3 ( 48.7) W/M\*\*2 247.6 ( 57.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 11.15 ( .12)   | I 6.09 (.001)    | I 4.5 ( .8)      | I 214.8 ( 8.6)       |
| I 8.50     | I 11.33 ( .12)   | I 6.19 (.002)    | I 4.3 ( .7)      | I                    |
| I 4.25     | I 11.51 ( .15)   | I 6.03 (.001)    | I 4.2 ( .7)      | I                    |
| I 2.13     | I 11.69 ( .17)   | I 6.36 (.002)    | I 3.8 ( .6)      | I                    |
| I 1.06     | I 12.00 ( .16)   | I 6.31 (.002)    | I 3.5 ( .6)      | I                    |
| I .00      | I 16.76          | I                |                  |                      |
| I -.02     | I 12.87          | I                |                  |                      |
| I -.05     | I 12.22          | I                |                  |                      |
| I -.10     | I 9.61           | I                |                  |                      |
| I -.23     | I 8.30           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

| CLOUDS        |       |             |          |            | PRESIPITATION |            |
|---------------|-------|-------------|----------|------------|---------------|------------|
| I             | N     | LOW         | MID-HIGH | BASE (M)   | I             | SINCE 01LT |
| I             | 8/8   | 8/8 SC      | AS X     | 700        | I             | .4 (MM)    |
| -----         |       |             |          |            |               |            |
| PRESSURE (MB) |       | GEOSTROPHIC |          | WIND (M/S) |               | VISIBILITY |
| I             | QFE   | I           | QFF      | I          | UG            | I          |
| I             | 991.0 | I           | 999.4    | I          | 1.9 6.0       | I          |
|               |       |             |          |            |               | WEATHER    |
|               |       |             |          |            |               | I          |

----->>> 1300 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 248.7 ( 75.7) W/M\*\*2 289.3 ( 95.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 11.69 ( .15)   | I 6.17 (.002)    | I 5.1 ( .7)      | I 213.9 ( 11.2)      |
| I 8.50     | I 11.90 ( .17)   | I 6.27 (.003)    | I 4.8 ( .7)      | I                    |
| I 4.25     | I 12.12 ( .19)   | I 6.12 (.003)    | I 4.7 ( .7)      | I                    |
| I 2.13     | I 12.32 ( .19)   | I 6.46 (.003)    | I 4.3 ( .7)      | I                    |
| I 1.06     | I 12.62 ( .20)   | I 6.40 (.003)    | I 4.0 ( .6)      | I                    |
| I .00      | I 17.47          | I                |                  |                      |
| I -.02     | I 12.97          | I                |                  |                      |
| I -.05     | I 12.30          | I                |                  |                      |
| I -.10     | I 10.01          | I                |                  |                      |
| I -.23     | I 8.30           | I                |                  |                      |
| I -.51     | I 6.64           | I                |                  |                      |

----->>> 1330 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 85.6 ( 15.8) W/M\*\*2 114.7 ( 17.3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 11.65 ( .05)   | I 6.12 (.003)    | I 6.6 ( .8)      | I 226.5 ( 6.4)       |
| I 8.50     | I 11.80 ( .05)   | I 6.20 (.002)    | I 6.1 ( .9)      | I                    |
| I 4.25     | I 11.91 ( .05)   | I 6.03 (.003)    | I 5.9 ( .9)      | I                    |
| I 2.13     | I 12.04 ( .06)   | I 6.31 (.002)    | I 5.3 ( .8)      | I                    |
| I 1.06     | I 12.13 ( .07)   | I 6.13 (.003)    | I 4.8 ( .8)      | I                    |
| I .00      | I 13.49          | I                |                  |                      |
| I -.02     | I 12.23          | I                |                  |                      |
| I -.05     | I 12.17          | I                |                  |                      |
| I -.10     | I 10.30          | I                |                  |                      |
| I -.23     | I 8.33           | I                |                  |                      |
| I -.51     | I 6.66           | I                |                  |                      |

&gt;&gt;&gt; 80-05-08 1400 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |       |             |          |            | PRESIPITATION |            |
|---------------|-------|-------------|----------|------------|---------------|------------|
| I             | N     | LOW         | MID-HIGH | BASE (M)   | I             | SINCE 01LT |
| I             | 7/8   | 7/8 SC      | AS       | 800        | I             |            |
| -----         |       |             |          |            |               |            |
| PRESSURE (MB) |       | GEOSTROPHIC |          | WIND (M/S) |               | VISIBILITY |
| I             | QFE   | I           | QFF      | I          | UG            | I          |
| I             | 990.9 | I           | 999.3    | I          | 1.9 6.0       | I          |
|               |       |             |          |            |               | WEATHER    |
|               |       |             |          |            |               | I          |

----->>> 1400 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 374.6 (119.7) W/M\*\*2 486.2 (149.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 11.97 ( .20)   | I 6.14 (.003)    | I 6.3 ( .7)      | I 239.2 ( 9.7)       |
| I 8.50     | I 12.22 ( .26)   | I 6.26 (.003)    | I 6.0 ( .8)      | I                    |
| I 4.25     | I 12.48 ( .34)   | I 6.18 (.003)    | I 5.8 ( .7)      | I                    |
| I 2.13     | I 12.78 ( .42)   | I 6.52 (.004)    | I 5.3 ( .7)      | I                    |
| I 1.06     | I 13.11 ( .50)   | I 6.49 (.004)    | I 4.7 ( .7)      | I                    |
| I .00      | I 17.92          | I                |                  |                      |
| I -.02     | I 12.55          | I                |                  |                      |
| I -.05     | I 12.03          | I                |                  |                      |
| I -.10     | I 10.44          | I                |                  |                      |
| I -.23     | I 8.34           | I                |                  |                      |
| I -.51     | I 6.67           | I                |                  |                      |

----->>> 1430 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 428.0 ( 13.9) W/M\*\*2 566.7 ( 28.3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 12.32 ( .21)   | I 5.82 (.006)    | I 6.8 (1.0)      | I 236.4 ( 9.3)       |
| I 8.50     | I 12.60 ( .27)   | I 5.88 (.006)    | I 6.5 (1.0)      | I                    |
| I 4.25     | I 12.89 ( .29)   | I 5.80 (.006)    | I 6.3 (1.0)      | I                    |
| I 2.13     | I 13.31 ( .26)   | I 6.14 (.006)    | I 5.7 (1.0)      | I                    |
| I 1.06     | I 13.79 ( .23)   | I 6.07 (.006)    | I 5.2 ( .9)      | I                    |
| I .00      | I 19.78          | I                |                  |                      |
| I -.02     | I 14.30          | I                |                  |                      |
| I -.05     | I 13.30          | I                |                  |                      |
| I -.10     | I 10.61          | I                |                  |                      |
| I -.23     | I 8.37           | I                |                  |                      |
| I -.51     | I 6.66           | I                |                  |                      |

&gt;&gt;&gt; 80-05-08 1500 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS            |     |        |          |                |   |             |   |
|-------------------|-----|--------|----------|----------------|---|-------------|---|
| I                 | N   | LOW    | MID-HIGH | BASE (M)       | I | I           | I |
| I                 | 6/8 | 6/8 SC | AS       | 1000           | I | I           | I |
| I-----I           |     |        |          |                |   |             |   |
| I PRESSURE (MB) I |     |        |          | I VISIBILITY I |   | I WEATHER I |   |
| I QFE QFF I       |     |        |          | I (KM) I       |   | I I         |   |
| I 990.7 999.0 I   |     |        |          | I 6 I          |   | I I         |   |

----->>> 1500 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 265.4 ( 68.4) W/M\*\*2 371.6 (107.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 12.75 ( .15)   | I 5.53 (.002)    | I 5.9 ( .9)      | I 239.1 ( 10.1) I    |
| I 8.50     | I 12.97 ( .15)   | I 5.54 (.002)    | I 5.7 (1.0)      | I I                  |
| I 4.25     | I 13.19 ( .17)   | I 5.41 (.002)    | I 5.5 (1.0)      | I I                  |
| I 2.13     | I 13.50 ( .18)   | I 5.72 (.003)    | I 5.0 ( .9)      | I I                  |
| I 1.06     | I 13.92 ( .18)   | I 5.57 (.003)    | I 4.5 ( .9)      | I I                  |
| I .00      | I 17.95          | I                |                  |                      |
| I -.02     | I 14.43          | I                |                  |                      |
| I -.05     | I 13.91          | I                |                  |                      |
| I -.10     | I 10.95          | I                |                  |                      |
| I -.23     | I 8.39           | I                |                  |                      |
| I -.51     | I 6.66           | I                |                  |                      |

----->>> 1530 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 312.8 ( 59.9) W/M\*\*2 438.5 ( 97.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 13.24 ( .18)   | I 5.26 (.004)    | I 5.1 (1.1)      | I 228.9 ( 12.1) I    |
| I 8.50     | I 13.48 ( .21)   | I 5.28 (.004)    | I 4.9 (1.0)      | I I                  |
| I 4.25     | I 13.73 ( .27)   | I 5.15 (.004)    | I 4.7 (1.0)      | I I                  |
| I 2.13     | I 14.00 ( .27)   | I 5.44 (.004)    | I 4.3 (1.0)      | I I                  |
| I 1.06     | I 14.49 ( .28)   | I 5.38 (.004)    | I 4.0 (1.0)      | I I                  |
| I .00      | I 20.28          | I                |                  |                      |
| I -.02     | I 15.12          | I                |                  |                      |
| I -.05     | I 14.18          | I                |                  |                      |
| I -.10     | I 11.28          | I                |                  |                      |
| I -.23     | I 8.42           | I                |                  |                      |
| I -.51     | I 6.64           | I                |                  |                      |

&gt;&gt;&gt; 80-05-08 1600 LT S Y N O P &lt;&lt;&lt;

| CLOUDS            |     |        |          |                            |   |                |   |
|-------------------|-----|--------|----------|----------------------------|---|----------------|---|
| I                 | N   | LOW    | MID-HIGH | BASE (M)                   | I | I              | I |
| I                 | 6/8 | 6/8 CB |          | 1500                       | I | I              | I |
| I-----I           |     |        |          |                            |   |                |   |
| I PRESSURE (MB) I |     |        |          | I GEOSTROPHIC WIND (M/S) I |   | I VISIBILITY I |   |
| I QFE QFF I       |     |        |          | I UG VG I                  |   | I (KM) I       |   |
| I 990.1 998.4 I   |     |        |          | I 3.9 2.5 I                |   | I 6 I          |   |

----->>> 1600 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 59.7 ( 70.9) W/M\*\*2 117.3 ( 64.3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 13.50 ( .23)   | I 5.02 (.003)    | I 6.0 (1.8)      | I 232.0 ( 11.3) I    |
| I 8.50     | I 13.68 ( .24)   | I 4.99 (.003)    | I 5.5 (1.6)      | I I                  |
| I 4.25     | I 13.83 ( .28)   | I 4.86 (.003)    | I 5.4 (1.5)      | I I                  |
| I 2.13     | I 14.04 ( .30)   | I 5.14 (.003)    | I 4.8 (1.4)      | I I                  |
| I 1.06     | I 14.28 ( .37)   | I 4.96 (.003)    | I 4.4 (1.2)      | I I                  |
| I .00      | I 17.30          | I                |                  |                      |
| I -.02     | I 15.08          | I                |                  |                      |
| I -.05     | I 14.53          | I                |                  |                      |
| I -.10     | I 11.59          | I                |                  |                      |
| I -.23     | I 8.47           | I                |                  |                      |
| I -.51     | I 6.64           | I                |                  |                      |

----->>> 1630 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 133.8 ( 87.5) W/M\*\*2 209.8 (114.3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 11.51 ( .39)   | I 5.35 (.003)    | I 5.8 (1.0)      | I 252.5 ( 6.8) I     |
| I 8.50     | I 11.65 ( .44)   | I 5.43 (.004)    | I 5.4 (1.0)      | I I                  |
| I 4.25     | I 11.76 ( .48)   | I 5.33 (.003)    | I 5.2 ( .9)      | I I                  |
| I 2.13     | I 11.91 ( .51)   | I 5.63 (.004)    | I 4.6 ( .8)      | I I                  |
| I 1.06     | I 12.07 ( .60)   | I 5.43 (.003)    | I 4.2 ( .8)      | I I                  |
| I .00      | I 14.22          | I                |                  |                      |
| I -.02     | I 13.26          | I                |                  |                      |
| I -.05     | I 13.38          | I                |                  |                      |
| I -.10     | I 11.83          | I                |                  |                      |
| I -.23     | I 8.56           | I                |                  |                      |
| I -.51     | I 6.68           | I                |                  |                      |

| CLOUDS        |       |       |          | BASE (M)   |      | SOILWATER |            |
|---------------|-------|-------|----------|------------|------|-----------|------------|
| I             | N     | LOW   | MID-HIGH | I          | I    | I         | CONTENT    |
| I             | 3/8   | 3/8   | SC       | I          | 1500 | I         | 60.53 (MM) |
| -----I-----   |       |       |          |            |      |           |            |
| PRESSURE (MB) |       |       |          | VISIBILITY |      | WEATHER   |            |
| I             | QFE   | QFF   | I        | I          | (KM) | I         | I          |
| I             | 990.4 | 998.7 | I        | I          | 6    | I         | RASH LH    |

## &gt;&gt;&gt; 1700 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
139.6 ( 39.4) W/M\*\*2 239.1 ( 61.5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 12.39 ( .13)   | I 5.45 (.002)    | I 4.6 ( .7)      | I 245.7 ( 10.1)      |
| I 8.50     | I 12.60 ( .15)   | I 5.47 (.002)    | I 4.4 ( .7)      | I                    |
| I 4.25     | I 12.77 ( .16)   | I 5.36 (.002)    | I 4.3 ( .7)      | I                    |
| I 2.13     | I 12.95 ( .15)   | I 5.60 (.002)    | I 3.9 ( .6)      | I                    |
| I 1.06     | I 13.22 ( .14)   | I 5.46 (.002)    | I 3.6 ( .6)      | I                    |
| I .00      | I 16.11          | I                |                  |                      |
| I -.02     | I 13.82          | I                |                  |                      |
| I -.05     | I 13.39          | I                |                  |                      |
| I -.10     | I 11.79          | I                |                  |                      |
| I -.23     | I 8.61           | I                |                  |                      |
| I -.51     | I 6.67           | I                |                  |                      |

## &gt;&gt;&gt; 1730 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
104.7 ( 55.9) W/M\*\*2 160.4 ( 66.5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 11.63 ( .39)   | I 5.75 (.006)    | I 8.9 (1.4)      | I 240.7 ( 13.7)      |
| I 8.50     | I 11.75 ( .42)   | I 5.83 (.007)    | I 8.3 (1.3)      | I                    |
| I 4.25     | I 11.82 ( .44)   | I 5.73 (.008)    | I 7.9 (1.3)      | I                    |
| I 2.13     | I 11.90 ( .47)   | I 6.07 (.009)    | I 7.1 (1.2)      | I                    |
| I 1.06     | I 11.90 ( .52)   | I 5.95 (.011)    | I 6.3 (1.2)      | I                    |
| I .00      | I 12.81          | I                |                  |                      |
| I -.02     | I 12.99          | I                |                  |                      |
| I -.05     | I 13.02          | I                |                  |                      |
| I -.10     | I 11.78          | I                |                  |                      |
| I -.23     | I 8.66           | I                |                  |                      |
| I -.51     | I 6.67           | I                |                  |                      |

## &gt;&gt;&gt; 80-05-08 1800 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |       |       |          | BASE (M)   |      |         |   |
|---------------|-------|-------|----------|------------|------|---------|---|
| I             | N     | LOW   | MID-HIGH | I          | I    | I       |   |
| I             | 7/8   | 4/8   | AS X     | I          | 1500 | I       |   |
| -----I-----   |       |       |          |            |      |         |   |
| PRESSURE (MB) |       |       |          | VISIBILITY |      | WEATHER |   |
| I             | QFE   | QFF   | I        | I          | (KM) | I       | I |
| I             | 990.4 | 998.8 | I        | I          | 5    | I       |   |

## &gt;&gt;&gt; 1800 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
23.1 ( 12.6) W/M\*\*2 73.6 ( 12.3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 10.48 ( .15)   | I 5.69 (.004)    | I 9.8 (1.4)      | I 257.6 ( 6.2)       |
| I 8.50     | I 10.51 ( .16)   | I 5.75 (.004)    | I 9.0 (1.3)      | I                    |
| I 4.25     | I 10.47 ( .17)   | I 5.66 (.005)    | I 8.5 (1.3)      | I                    |
| I 2.13     | I 10.45 ( .17)   | I 5.88 (.004)    | I 7.7 (1.2)      | I                    |
| I 1.06     | I 10.35 ( .17)   | I 5.74 (.005)    | I 7.0 (1.2)      | I                    |
| I .00      | I 10.34          | I                |                  |                      |
| I -.02     | I 11.83          | I                |                  |                      |
| I -.05     | I 12.25          | I                |                  |                      |
| I -.10     | I 11.73          | I                |                  |                      |
| I -.23     | I 8.75           | I                |                  |                      |
| I -.51     | I 6.68           | I                |                  |                      |

## &gt;&gt;&gt; 1830 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
-1.8 ( 5.8) W/M\*\*2 39.1 ( 3.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 10.02 ( .06)   | I 5.77 (.002)    | I 7.9 (1.1)      | I 253.5 ( 6.9)       |
| I 8.50     | I 10.05 ( .06)   | I 5.84 (.001)    | I 7.2 (1.1)      | I                    |
| I 4.25     | I 10.01 ( .06)   | I 5.74 (.002)    | I 6.8 (1.0)      | I                    |
| I 2.13     | I 9.97 ( .05)    | I 5.95 (.001)    | I 6.1 (1.0)      | I                    |
| I 1.06     | I 9.91 ( .04)    | I 5.82 (.001)    | I 5.4 (1.0)      | I                    |
| I .00      | I 9.74           | I                |                  |                      |
| I -.02     | I 11.00          | I                |                  |                      |
| I -.05     | I 11.45          | I                |                  |                      |
| I -.10     | I 11.47          | I                |                  |                      |
| I -.23     | I 8.76           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

&gt;&gt;&gt; 80-05-08 1900 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS |        |          |          |            | PRESIPITATION |  |
|--------|--------|----------|----------|------------|---------------|--|
| N      | LOW    | MID-HIGH | BASE (M) | SINCE 07LT |               |  |
| 7/8    | 4/8 SC | AC X     | 1500     | .5 (MM)    |               |  |

| PRESSURE (MB) |       | GEOSTROPHIC WIND (M/S) |    | VISIBILITY |  | WEATHER |  |
|---------------|-------|------------------------|----|------------|--|---------|--|
| QFE           | QFF   | UG                     | VG | (KM)       |  |         |  |
| 990.8         | 999.2 | 7.9                    | .1 | 5          |  |         |  |

&gt;&gt;&gt; 1900 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION GLOBAL RADIATION  
 -14.3 ( 3.7) W/M\*\*2 23.2 ( 4.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 9.83 (.03)       | 5.77 (.001)      | 7.4 (1.0)        | 247.1 ( 6.9)         |
| 8.50       | 9.85 (.04)       | 5.84 (.001)      | 6.6 (1.0)        |                      |
| 4.25       | 9.80 (.05)       | 5.74 (.001)      | 6.2 (1.0)        |                      |
| 2.13       | 9.76 (.05)       | 5.93 (.001)      | 5.6 (1.0)        |                      |
| 1.06       | 9.69 (.05)       | 5.80 (.001)      | 5.0 (.9)         |                      |
| .00        | 9.40             |                  |                  |                      |
| -.02       | 10.48            |                  |                  |                      |
| -.05       | 10.90            |                  |                  |                      |
| -.10       | 11.18            |                  |                  |                      |
| -.23       | 8.80             |                  |                  |                      |
| -.51       | 6.62             |                  |                  |                      |

&gt;&gt;&gt; 1930 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION GLOBAL RADIATION  
 -27.9 ( 4.5) W/M\*\*2 10.5 ( 2.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 9.41 (.41)       | 5.75 (.002)      | 7.3 (1.0)        | 243.0 ( 5.5)         |
| 8.50       | 9.41 (.42)       | 5.81 (.002)      | 6.6 (.9)         |                      |
| 4.25       | 9.36 (.43)       | 5.71 (.002)      | 6.2 (.9)         |                      |
| 2.13       | 9.30 (.43)       | 5.87 (.002)      | 5.5 (.9)         |                      |
| 1.06       | 9.24 (.43)       | 5.74 (.002)      | 5.0 (.9)         |                      |
| .00        | 8.75             |                  |                  |                      |
| -.02       | 9.99             |                  |                  |                      |
| -.05       | 10.46            |                  |                  |                      |
| -.10       | 10.93            |                  |                  |                      |
| -.23       | 8.84             |                  |                  |                      |
| -.51       | 6.62             |                  |                  |                      |

&gt;&gt;&gt; 80-05-08 2000 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |        |          |          |            | PRESIPITATION |  |
|--------|--------|----------|----------|------------|---------------|--|
| N      | LOW    | MID-HIGH | BASE (M) | SINCE 07LT |               |  |
| 7/8    | 5/8 SC | AC X     | 800      |            |               |  |

| PRESSURE (MB) |       | GEOSTROPHIC WIND (M/S) |    | VISIBILITY |  | WEATHER |  |
|---------------|-------|------------------------|----|------------|--|---------|--|
| QFE           | QFF   | UG                     | VG | (KM)       |  |         |  |
| 991.0         | 999.4 |                        |    | 5          |  |         |  |

&gt;&gt;&gt; 2000 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION GLOBAL RADIATION  
 -36.1 ( 6.2) W/M\*\*2 2.2 ( 1.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 9.28 (.05)       | 5.79 (.001)      | 6.2 (.7)         | 245.2 ( 5.8)         |
| 8.50       | 9.26 (.06)       | 5.86 (.001)      | 5.6 (.8)         |                      |
| 4.25       | 9.18 (.07)       | 5.74 (.001)      | 5.2 (.9)         |                      |
| 2.13       | 9.12 (.07)       | 5.90 (.001)      | 4.6 (.8)         |                      |
| 1.06       | 9.04 (.08)       | 5.75 (.001)      | 4.1 (.8)         |                      |
| .00        | 8.40             |                  |                  |                      |
| -.02       | 9.60             |                  |                  |                      |
| -.05       | 10.07            |                  |                  |                      |
| -.10       | 10.65            |                  |                  |                      |
| -.23       | 8.86             |                  |                  |                      |
| -.51       | 6.59             |                  |                  |                      |

&gt;&gt;&gt; 2030 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION GLOBAL RADIATION  
 -34.2 ( 9.9) W/M\*\*2 -.4 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 9.12 (.07)       | 5.72 (.002)      | 6.9 (.9)         | 243.1 ( 6.0)         |
| 8.50       | 9.13 (.07)       | 5.79 (.002)      | 6.3 (.9)         |                      |
| 4.25       | 9.07 (.08)       | 5.68 (.002)      | 5.9 (.8)         |                      |
| 2.13       | 9.01 (.08)       | 5.84 (.001)      | 5.2 (.8)         |                      |
| 1.06       | 8.93 (.09)       | 5.70 (.002)      | 4.6 (.8)         |                      |
| .00        | 8.13             |                  |                  |                      |
| -.02       | 9.31             |                  |                  |                      |
| -.05       | 9.75             |                  |                  |                      |
| -.10       | 10.41            |                  |                  |                      |
| -.23       | 8.89             |                  |                  |                      |
| -.51       | 6.59             |                  |                  |                      |

&gt;&gt;&gt; 80-05-08 2100 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS |               |        |          |          |      |            |         |
|--------|---------------|--------|----------|----------|------|------------|---------|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I    | I          | I       |
| I      | 7/8           | 6/8 SC | AC       | X        | 1400 | I          | I       |
| I      |               |        |          |          |      |            |         |
| I      | PRESSURE (MB) |        |          |          | I    | VISIBILITY |         |
| I      | QFE QFF       |        |          |          | I    | (KM)       |         |
| I      | 991.5         | 999.9  | I        |          | I    | 5          | I DZ LH |

&gt;&gt;&gt; 2100 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION GLOBAL RADIATION  
 -13.6 ( 2.0) W/M\*\*2 -0.4 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 8.81 ( .03)    | I 5.84 (.001)    | I 7.0 ( .8)      | I 243.4 ( 5.6)       |
| I 8.50     | I 8.84 ( .03)    | I 5.92 (.001)    | I 6.4 ( .9)      | I                    |
| I 4.25     | I 8.80 ( .03)    | I 5.82 (.001)    | I 6.0 ( .8)      | I                    |
| I 2.13     | I 8.78 ( .03)    | I 5.96 (.001)    | I 5.3 ( .8)      | I                    |
| I 1.06     | I 8.74 ( .04)    | I 5.84 (.001)    | I 4.7 ( .7)      | I                    |
| I .00      | I 8.34           |                  |                  |                      |
| I -.02     | I 9.06           |                  |                  |                      |
| I -.05     | I 9.46           |                  |                  |                      |
| I -.10     | I 10.18          |                  |                  |                      |
| I -.23     | I 8.90           |                  |                  |                      |
| I -.51     | I 6.59           |                  |                  |                      |

&gt;&gt;&gt; 2130 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION GLOBAL RADIATION  
 -17.1 ( 1.3) W/M\*\*2 -0.3 ( .5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 8.09 ( .11)    | I 5.69 (.002)    | I 6.6 (1.0)      | I 263.1 ( 5.9)       |
| I 8.50     | I 8.16 ( .11)    | I 5.76 (.002)    | I 6.3 (1.0)      | I                    |
| I 4.25     | I 8.14 ( .12)    | I 5.66 (.002)    | I 5.9 ( .9)      | I                    |
| I 2.13     | I 8.15 ( .12)    | I 5.81 (.002)    | I 5.2 ( .9)      | I                    |
| I 1.06     | I 8.09 ( .12)    | I 5.66 (.002)    | I 4.7 ( .9)      | I                    |
| I .00      | I 8.14           |                  |                  |                      |
| I -.02     | I 8.95           |                  |                  |                      |
| I -.05     | I 9.32           |                  |                  |                      |
| I -.10     | I 9.96           |                  |                  |                      |
| I -.23     | I 8.90           |                  |                  |                      |
| I -.51     | I 6.59           |                  |                  |                      |

&gt;&gt;&gt; 80-05-08 2200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |               |        |          |          |      |            |     |
|--------|---------------|--------|----------|----------|------|------------|-----|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I    | I          | I   |
| I      | 7/8           | 4/8 SC | AC       | X        | 1400 | I          | I   |
| I      |               |        |          |          |      |            |     |
| I      | PRESSURE (MB) |        |          |          | I    | VISIBILITY |     |
| I      | QFE QFF       |        |          |          | I    | (KM)       |     |
| I      | 992.3         | 1000.8 | I        | 11.1     | -9   | I          | >20 |

&gt;&gt;&gt; 2200 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION GLOBAL RADIATION  
 -19.4 ( 1.6) W/M\*\*2 -1.3 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.85 ( .04)    | I 5.81 (.001)    | I 5.4 ( .8)      | I 245.6 ( 6.7)       |
| I 8.50     | I 7.89 ( .04)    | I 5.92 (.001)    | I 4.9 ( .8)      | I                    |
| I 4.25     | I 7.87 ( .04)    | I 5.79 (.002)    | I 4.7 ( .8)      | I                    |
| I 2.13     | I 7.86 ( .05)    | I 5.94 (.001)    | I 4.2 ( .7)      | I                    |
| I 1.06     | I 7.83 ( .05)    | I 5.76 (.002)    | I 3.7 ( .7)      | I                    |
| I .00      | I 7.93           |                  |                  |                      |
| I -.02     | I 8.73           |                  |                  |                      |
| I -.05     | I 9.12           |                  |                  |                      |
| I -.10     | I 9.78           |                  |                  |                      |
| I -.23     | I 8.90           |                  |                  |                      |
| I -.51     | I 6.58           |                  |                  |                      |

&gt;&gt;&gt; 2230 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION GLOBAL RADIATION  
 -22.6 ( 5.3) W/M\*\*2 -1.0 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.76 ( .05)    | I 5.69 (.000)    | I 5.1 ( .5)      | I 241.1 ( 5.5)       |
| I 8.50     | I 7.79 ( .06)    | I 5.79 (.000)    | I 4.6 ( .5)      | I                    |
| I 4.25     | I 7.75 ( .06)    | I 5.67 (.000)    | I 4.3 ( .5)      | I                    |
| I 2.13     | I 7.74 ( .07)    | I 5.81 (.000)    | I 3.8 ( .5)      | I                    |
| I 1.06     | I 7.70 ( .07)    | I 5.65 (.000)    | I 3.5 ( .6)      | I                    |
| I .00      | I 7.71           |                  |                  |                      |
| I -.02     | I 8.56           |                  |                  |                      |
| I -.05     | I 8.94           |                  |                  |                      |
| I -.10     | I 9.62           |                  |                  |                      |
| I -.23     | I 8.87           |                  |                  |                      |
| I -.51     | I 6.58           |                  |                  |                      |

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| HEIGHT (M) |       | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|-------|------------------|------------------|------------------|----------------------|
| I          | 17.00 | I 7.71 ( .04)    | I 5.48 (.001)    | I 6.2 ( .8)      | I 240.9 ( 6.1)       |
| I          | 8.50  | I 7.73 ( .04)    | I 5.55 (.001)    | I 5.6 ( .8)      | I                    |
| I          | 4.25  | I 7.68 ( .04)    | I 5.45 (.001)    | I 5.4 ( .8)      | I                    |
| I          | 2.13  | I 7.66 ( .04)    | I 5.59 (.001)    | I 4.8 ( .8)      | I                    |
| I          | 1.06  | I 7.60 ( .05)    | I 5.45 (.001)    | I 4.2 ( .7)      | I                    |
| I          | .00   | I 7.16           | I                |                  |                      |
| I          | -.02  | I 7.92           | I                |                  |                      |
| I          | -.05  | I 8.27           | I                |                  |                      |
| I          | -.10  | I 9.04           | I                |                  |                      |
| I          | -.23  | I 8.77           | I                |                  |                      |
| I          | -.51  | I 6.59           | I                |                  |                      |

| CLOUDS        |       |                        |          | BASE (M)   |           | PRESIPITATION |            |           |     |
|---------------|-------|------------------------|----------|------------|-----------|---------------|------------|-----------|-----|
| I             | N     | LOW                    | MID-HIGH |            |           | I             | SINCE 13LT | I         |     |
| I             | 4/8   | 4/8 SC                 | AS       | X          | 1500      | I             | .2 (MM)    | I         |     |
| -----         |       |                        |          |            |           |               |            |           |     |
| PRESSURE (MB) |       | GEOSTROPHIC WIND (M/S) |          | VISIBILITY |           | WEATHER       |            |           |     |
| I             | QFE   | QFF                    | UG       | VG         | UG-850-VG | I             | (KM)       | I         |     |
| I             | 993.0 | 1001.5                 | I        | 12.0       | -2.8      | 11.1          | -2.2       | I         | >20 |
|               |       |                        |          |            |           |               |            | I LI DZ I |     |

## &gt;&gt;&gt; 0100 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION                      GLOBAL RADIATION  
 -35.2 ( 3.6) W/M\*\*2                      -1.4 ( .4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.56 ( .04)    | I 5.46 (.001)    | I 7.5 (1.0)      | I 241.2 ( 5.2)       |
| I 8.50     | I 7.55 ( .04)    | I 5.52 (.001)    | I 6.7 ( .9)      | I                    |
| I 4.25     | I 7.49 ( .05)    | I 5.42 (.001)    | I 6.3 ( .9)      | I                    |
| I 2.13     | I 7.45 ( .05)    | I 5.55 (.001)    | I 5.6 ( .9)      | I                    |
| I 1.06     | I 7.36 ( .05)    | I 5.40 (.001)    | I 5.1 ( .9)      | I                    |
| I .00      | I 6.79           | I                |                  |                      |
| I -.02     | I 7.78           | I                |                  |                      |
| I -.05     | I 8.14           | I                |                  |                      |
| I -.10     | I 8.91           | I                |                  |                      |
| I -.23     | I 8.73           | I                |                  |                      |
| I -.51     | I 6.59           | I                |                  |                      |

## &gt;&gt;&gt; 0130 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION                      GLOBAL RADIATION  
 -26.5 ( 11.4) W/M\*\*2                      -1.6 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.53 ( .05)    | I 5.47 (.001)    | I 7.4 ( .9)      | I 239.5 ( 5.9)       |
| I 8.50     | I 7.53 ( .05)    | I 5.54 (.001)    | I 6.8 ( .9)      | I                    |
| I 4.25     | I 7.48 ( .05)    | I 5.45 (.001)    | I 6.3 ( .9)      | I                    |
| I 2.13     | I 7.44 ( .05)    | I 5.57 (.001)    | I 5.7 ( .9)      | I                    |
| I 1.06     | I 7.36 ( .05)    | I 5.44 (.001)    | I 5.0 (1.0)      | I                    |
| I .00      | I 6.85           | I                |                  |                      |
| I -.02     | I 7.61           | I                |                  |                      |
| I -.05     | I 7.95           | I                |                  |                      |
| I -.10     | I 8.77           | I                |                  |                      |
| I -.23     | I 8.71           | I                |                  |                      |
| I -.51     | I 6.59           | I                |                  |                      |

## &gt;&gt;&gt; 80-05-09 0200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |       |        |          | BASE (M)   |      |         |   |   |  |
|---------------|-------|--------|----------|------------|------|---------|---|---|--|
| I             | N     | LOW    | MID-HIGH |            |      | I       |   | I |  |
| I             | 2/8   | 2/8 SC | AS       | X          | 1500 | I       |   | I |  |
| -----         |       |        |          |            |      |         |   |   |  |
| PRESSURE (MB) |       |        |          | VISIBILITY |      | WEATHER |   |   |  |
| I             | QFE   | QFF    | I        |            | I    | (KM)    | I |   |  |
| I             | 993.5 | 1002.0 | I        |            | I    | >20     | I |   |  |

## &gt;&gt;&gt; 0200 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION                      GLOBAL RADIATION  
 -70.1 ( 12.1) W/M\*\*2                      -1.2 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.08 ( .18)    | I 5.08 (.001)    | I 7.9 (1.0)      | I 238.1 ( 5.4)       |
| I 8.50     | I 7.05 ( .19)    | I 5.13 (.001)    | I 7.2 ( .9)      | I                    |
| I 4.25     | I 6.95 ( .21)    | I 5.03 (.001)    | I 6.6 (1.0)      | I                    |
| I 2.13     | I 6.87 ( .22)    | I 5.16 (.001)    | I 5.9 (1.0)      | I                    |
| I 1.06     | I 6.76 ( .24)    | I 5.03 (.001)    | I 5.2 ( .9)      | I                    |
| I .00      | I 5.79           | I                |                  |                      |
| I -.02     | I 7.36           | I                |                  |                      |
| I -.05     | I 7.77           | I                |                  |                      |
| I -.10     | I 8.64           | I                |                  |                      |
| I -.23     | I 8.67           | I                |                  |                      |
| I -.51     | I 6.61           | I                |                  |                      |

## &gt;&gt;&gt; 0230 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION                      GLOBAL RADIATION  
 -47.9 ( 25.0) W/M\*\*2                      -1.3 ( .4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.57 ( .07)    | I 4.89 (.000)    | I 7.4 ( .9)      | I 236.0 ( 4.6)       |
| I 8.50     | I 6.54 ( .09)    | I 4.95 (.001)    | I 6.8 ( .8)      | I                    |
| I 4.25     | I 6.45 ( .11)    | I 4.86 (.001)    | I 6.3 ( .8)      | I                    |
| I 2.13     | I 6.36 ( .13)    | I 4.99 (.001)    | I 5.6 ( .8)      | I                    |
| I 1.06     | I 6.25 ( .15)    | I 4.86 (.001)    | I 4.9 ( .8)      | I                    |
| I .00      | I 5.23           | I                |                  |                      |
| I -.02     | I 6.81           | I                |                  |                      |
| I -.05     | I 7.33           | I                |                  |                      |
| I -.10     | I 8.49           | I                |                  |                      |
| I -.23     | I 8.63           | I                |                  |                      |
| I -.51     | I 6.61           | I                |                  |                      |

| CLOUDS |               |        |          |          |     |            |   |
|--------|---------------|--------|----------|----------|-----|------------|---|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I   |            | I |
| I      | 6/8           | 6/8 SC | AS       | X        | 400 | I          | I |
| I      |               |        |          |          |     | I          | I |
| I      | PRESSURE (MB) |        |          |          | I   | VISIBILITY |   |
| I      | QFE QFF       |        |          |          | I   | (KM)       |   |
| I      | 994.1 1002.6  |        |          |          | I   | 10         |   |

## &gt;&gt;&gt; 0300 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
-11.2 ( 2.6) W/M\*\*2 -0.3 ( .1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.64 ( .06)    | I 4.93 (.001)    | I 6.6 ( .8)      | I 233.7 ( 6.4) I     |
| I 8.50     | I 6.67 ( .06)    | I 5.00 (.001)    | I 6.1 ( .8)      | I I                  |
| I 4.25     | I 6.63 ( .07)    | I 4.91 (.001)    | I 5.8 ( .8)      | I I                  |
| I 2.13     | I 6.59 ( .07)    | I 5.06 (.001)    | I 5.2 ( .8)      | I I                  |
| I 1.06     | I 6.54 ( .07)    | I 4.96 (.001)    | I 4.7 ( .7)      | I I                  |
| I .00      | I 6.10           | I                |                  |                      |
| I -.02     | I 6.90           | I                |                  |                      |
| I -.05     | I 7.24           | I                |                  |                      |
| I -.10     | I 8.30           | I                |                  |                      |
| I -.23     | I 8.58           | I                |                  |                      |
| I -.51     | I 6.61           | I                |                  |                      |

## &gt;&gt;&gt; 0330 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
-16.5 ( 11.4) W/M\*\*2 -0.1 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.60 ( .06)    | I 4.99 (.001)    | I 6.5 ( .8)      | I 243.4 ( 6.6) I     |
| I 8.50     | I 6.61 ( .07)    | I 5.05 (.001)    | I 5.9 ( .7)      | I I                  |
| I 4.25     | I 6.57 ( .08)    | I 4.96 (.001)    | I 5.5 ( .7)      | I I                  |
| I 2.13     | I 6.54 ( .10)    | I 5.09 (.001)    | I 4.9 ( .8)      | I I                  |
| I 1.06     | I 6.49 ( .11)    | I 4.97 (.001)    | I 4.4 ( .8)      | I I                  |
| I .00      | I 6.06           | I                |                  |                      |
| I -.02     | I 6.85           | I                |                  |                      |
| I -.05     | I 7.20           | I                |                  |                      |
| I -.10     | I 8.17           | I                |                  |                      |
| I -.23     | I 8.54           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

## &gt;&gt;&gt; 80-05-09 0400 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |               |        |          |          |   |            |   |
|--------|---------------|--------|----------|----------|---|------------|---|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I |            | I |
| I      | 6/8           | 6/8 SC | X        | 400      | I |            | I |
| I      |               |        |          |          | I |            | I |
| I      | PRESSURE (MB) |        |          |          | I | VISIBILITY |   |
| I      | QFE QFF       |        |          |          | I | (KM)       |   |
| I      | 995.2 1003.8  |        |          |          | I | >20        |   |

## &gt;&gt;&gt; 0400 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
-8.9 ( 2.4) W/M\*\*2 4.0 ( 1.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.91 ( .28)    | I 4.39 (.001)    | I 8.8 (1.4)      | I 293.4 ( 6.3) I     |
| I 8.50     | I 5.00 ( .28)    | I 4.42 (.001)    | I 8.1 (1.3)      | I I                  |
| I 4.25     | I 5.03 ( .28)    | I 4.36 (.001)    | I 7.6 (1.3)      | I I                  |
| I 2.13     | I 5.06 ( .28)    | I 4.49 (.001)    | I 6.8 (1.2)      | I I                  |
| I 1.06     | I 5.08 ( .29)    | I 4.39 (.001)    | I 6.0 (1.3)      | I I                  |
| I .00      | I 5.55           | I                |                  |                      |
| I -.02     | I 6.78           | I                |                  |                      |
| I -.05     | I 7.16           | I                |                  |                      |
| I -.10     | I 8.06           | I                |                  |                      |
| I -.23     | I 8.51           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

## &gt;&gt;&gt; 0430 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
-0.9 ( 2.4) W/M\*\*2 17.9 ( 5.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.28 ( .16)    | I 4.20 (.000)    | I 7.6 (1.0)      | I 295.7 ( 7.4) I     |
| I 8.50     | I 4.38 ( .16)    | I 4.24 (.000)    | I 7.1 (1.0)      | I I                  |
| I 4.25     | I 4.41 ( .16)    | I 4.17 (.000)    | I 6.7 (1.0)      | I I                  |
| I 2.13     | I 4.44 ( .16)    | I 4.30 (.000)    | I 6.0 ( .9)      | I I                  |
| I 1.06     | I 4.47 ( .15)    | I 4.21 (.000)    | I 5.3 (1.0)      | I I                  |
| I .00      | I 5.17           | I                |                  |                      |
| I -.02     | I 6.46           | I                |                  |                      |
| I -.05     | I 6.92           | I                |                  |                      |
| I -.10     | I 7.95           | I                |                  |                      |
| I -.23     | I 8.45           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

|   |               |        |          |          |   |            |   |            |   |
|---|---------------|--------|----------|----------|---|------------|---|------------|---|
| I |               |        | CLOUDS   |          | I |            | I | SOILWATER  | I |
| I | N             | LOW    | MID-HIGH | BASE (M) | I |            | I | CONTENT    | I |
| I | 5/8           | 5/8 SC |          | 400      | I |            | I | 60.30 (MM) | I |
| I |               |        |          |          | I |            | I |            | I |
| I | PRESSURE (MB) | I      |          |          | I | VISIBILITY | I | WEATHER    | I |
| I | QFE           | QFF    | I        |          | I | (KM)       | I |            | I |
| I | 996.1         | 1004.8 | I        |          | I | >20        | I |            | I |

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----->>> 0500 LT      P R O F I L E S      <<<-----
              NET RADIATION      GLOBAL RADIATION
-14.0 ( 18.1) W/M**2      67.1 ( 15.2) W/M**2
```

| HEIGHT (M) |       | TEMP.(DEG.CENTG) |            | MIX.RATIO (G/KG) |             | WIND SPEED (M/S) |           | WIND DIRECTION (DEG) |              |
|------------|-------|------------------|------------|------------------|-------------|------------------|-----------|----------------------|--------------|
| I          | 17.00 | I                | 3.88 (.03) | I                | 4.06 (.000) | I                | 9.1 (1.0) | I                    | 291.1 ( 6.5) |
| I          | 8.50  | I                | 3.97 (.02) | I                | 4.08 (.000) | I                | 8.6 (1.1) | I                    |              |
| I          | 4.25  | I                | 4.00 (.02) | I                | 4.01 (.001) | I                | 7.9 (1.1) | I                    |              |
| I          | 2.13  | I                | 4.02 (.03) | I                | 4.12 (.000) | I                | 7.0 (1.1) | I                    |              |
| I          | 1.06  | I                | 4.03 (.03) | I                | 4.04 (.000) | I                | 6.3 (1.1) | I                    |              |
| I          | .00   | I                | 4.45       | I                |             |                  |           |                      |              |
| I          | -.02  | I                | 6.03       | I                |             |                  |           |                      |              |
| I          | -.05  | I                | 6.62       | I                |             |                  |           |                      |              |
| I          | -.10  | I                | 7.82       | I                |             |                  |           |                      |              |
| I          | -.23  | I                | 8.42       | I                |             |                  |           |                      |              |
| I          | -.51  | I                | 6.63       | I                |             |                  |           |                      |              |

```

----->>> 0530 LT      P R O F I L E S      <<<-----
              NET RADIATION      GLOBAL RADIATION
        61.0 ( 13.8)  W/M**2      96.0 ( 19.9)  W/M**2

```

| HEIGHT (M) |       | TEMP.(DEG.CENTG) |            | MIX.RATIO (G/KG) |             | WIND SPEED (M/S) |           | WIND DIRECTION (DEG) |              |
|------------|-------|------------------|------------|------------------|-------------|------------------|-----------|----------------------|--------------|
| I          | 17.00 | I                | 3.80 (.34) | I                | 4.00 (.001) | I                | 8.5 (1.4) | I                    | 293.7 ( 8.1) |
| I          | 8.50  | I                | 3.93 (.31) | I                | 4.04 (.001) | I                | 7.7 (1.3) | I                    |              |
| I          | 4.25  | I                | 4.01 (.29) | I                | 3.98 (.001) | I                | 7.1 (1.3) | I                    |              |
| I          | 2.13  | I                | 4.14 (.16) | I                | 4.12 (.001) | I                | 6.4 (1.1) | I                    |              |
| I          | 1.06  | I                | 4.20 (.06) | I                | 4.07 (.001) | I                | 5.8 (1.1) | I                    |              |
| I          | .00   | I                | 5.68       | I                |             |                  |           |                      |              |
| I          | -.02  | I                | 6.04       | I                |             |                  |           |                      |              |
| I          | -.05  | I                | 6.49       | I                |             |                  |           |                      |              |
| I          | -.10  | I                | 7.67       | I                |             |                  |           |                      |              |
| I          | -.23  | I                | 8.37       | I                |             |                  |           |                      |              |
| I          | -.51  | I                | 6.64       | I                |             |                  |           |                      |              |

>>> 80-05-09 0600 LT S Y N O P <<<

|   |               |        |    |          |          |   |            |   |         |
|---|---------------|--------|----|----------|----------|---|------------|---|---------|
| I |               |        |    | CLOUDS   |          | I |            | I |         |
| I | N             | LOW    |    | MID-HIGH | BASE (M) | I |            | I |         |
| I | 6/8           | 6/8    | SC |          | 300      | I |            | I |         |
| I |               |        |    |          |          | I |            | I |         |
| I | PRESSURE (MB) | I      |    |          |          | I | VISIBILITY | I | WEATHER |
| I | QFE           | QFF    | I  |          |          | I | (KM)       | I |         |
| I | 997.6         | 1006.3 | I  |          |          | I | >20        | I |         |

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----->>> 0600 LT   P R O F I L E S   <<<-----
      NET RADIATION      GLOBAL RADIATION
      87.7 ( 24.4) W/M**2      131.4 ( 26.0) W/M**2

```

| HEIGHT (M) |       | TEMP.(DEG.CENTG) |            | MIX.RATIO (G/KG) |             | WIND SPEED (M/S) |           | WIND DIRECTION (DEG) |              |
|------------|-------|------------------|------------|------------------|-------------|------------------|-----------|----------------------|--------------|
| I          | 17.00 | I                | 3.69 (.05) | I                | 3.90 (.001) | I                | 9.6 (1.4) | I                    | 288.1 ( 7.4) |
| I          | 8.50  | I                | 3.83 (.05) | I                | 3.92 (.001) | I                | 9.0 (1.4) | I                    |              |
| I          | 4.25  | I                | 3.91 (.06) | I                | 3.86 (.001) | I                | 8.5 (1.5) | I                    |              |
| I          | 2.13  | I                | 4.01 (.08) | I                | 3.99 (.001) | I                | 7.7 (1.3) | I                    |              |
| I          | 1.06  | I                | 4.13 (.10) | I                | 3.95 (.001) | I                | 6.9 (1.2) | I                    |              |
| I          | .00   | I                | 5.68       | I                |             |                  |           |                      |              |
| I          | -.02  | I                | 6.10       | I                |             |                  |           |                      |              |
| I          | -.05  | I                | 6.59       | I                |             |                  |           |                      |              |
| I          | -.10  | I                | 7.55       | I                |             |                  |           |                      |              |
| I          | -.23  | I                | 8.33       | I                |             |                  |           |                      |              |
| I          | -.51  | I                | 6.66       | I                |             |                  |           |                      |              |

----->>> 0630 LT P R O F I L E S <<<-----  
NET RADIATION GLOBAL RADIATION  
110.3 ( 15.4 ) W/M\*\*2 164.4 ( 42.6 ) W/M\*\*2

| HEIGHT (M) |       | TEMP.(DEG.CENTG) |            | MIX.RATIO (G/KG) |             | WIND SPEED (M/S) |           | WIND DIRECTION (DEG) |             |
|------------|-------|------------------|------------|------------------|-------------|------------------|-----------|----------------------|-------------|
| I          | 17.00 | I                | 3.80 (.10) | I                | 3.83 (.001) | I                | 8.6 (1.4) | I                    | 290.2 (7.5) |
| I          | 8.50  | I                | 3.97 (.11) | I                | 3.86 (.001) | I                | 8.0 (1.4) | I                    |             |
| I          | 4.25  | I                | 4.05 (.12) | I                | 3.79 (.001) | I                | 7.6 (1.3) | I                    |             |
| I          | 2.13  | I                | 4.19 (.12) | I                | 3.95 (.001) | I                | 6.8 (1.3) | I                    |             |
| I          | 1.06  | I                | 4.34 (.13) | I                | 3.91 (.001) | I                | 6.1 (1.1) | I                    |             |
| I          | .00   | I                | 6.39       | I                |             |                  |           |                      |             |
| I          | -.02  | I                | 6.26       | I                |             |                  |           |                      |             |
| I          | -.05  | I                | 6.73       | I                |             |                  |           |                      |             |
| I          | -.10  | I                | 7.48       | I                |             |                  |           |                      |             |
| I          | -.23  | I                | 8.26       | I                |             |                  |           |                      |             |
| I          | -.51  | I                | 6.66       | I                |             |                  |           |                      |             |

|               |          |                        |            |               |         |
|---------------|----------|------------------------|------------|---------------|---------|
| CLOUDS        |          |                        |            | PRESIPITATION |         |
| LOW           | MID-HIGH | BASE (M)               | SINCE 19LT |               |         |
| 3/8 3/8 CU    |          | 300                    | 3 (MM)     |               |         |
| PRESSURE (MB) |          | GEOSTROPHIC WIND (M/S) |            | VISIBILITY    | WEATHER |
| QFE           | QFF      | UG                     | VG         | (KM)          |         |
| 998.9         | 1007.5   | 9.8                    | -10.4      | >20           |         |

## &gt;&gt;&gt; 0700 LT P R O F I L E S &lt;&lt;&lt;

|                      |                      |
|----------------------|----------------------|
| NET RADIATION        | GLOBAL RADIATION     |
| 224.0 ( 38.4) W/M**2 | 358.9 ( 89.5) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 4.34 ( .15)      | 3.70 (.002)      | 9.1 (1.2)        | 294.7 ( 7.5)         |
| 8.50       | 4.54 ( .17)      | 3.71 (.002)      | 8.5 (1.1)        |                      |
| 4.25       | 4.71 ( .20)      | 3.67 (.002)      | 8.0 (1.3)        |                      |
| 2.13       | 4.94 ( .21)      | 3.85 (.002)      | 7.2 (1.3)        |                      |
| 1.06       | 5.20 ( .21)      | 3.85 (.002)      | 6.5 (1.2)        |                      |
| .00        | 8.78             |                  |                  |                      |
| -.02       | 6.51             |                  |                  |                      |
| -.05       | 7.16             |                  |                  |                      |
| -.10       | 7.45             |                  |                  |                      |
| -.23       | 8.21             |                  |                  |                      |
| -.51       | 6.66             |                  |                  |                      |

## &gt;&gt;&gt; 0730 LT P R O F I L E S &lt;&lt;&lt;

|                      |                      |
|----------------------|----------------------|
| NET RADIATION        | GLOBAL RADIATION     |
| 310.2 ( 17.0) W/M**2 | 453.5 ( 38.1) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 5.02 ( .15)      | 3.62 (.002)      | 9.2 (1.3)        | 299.2 ( 9.7)         |
| 8.50       | 5.27 ( .18)      | 3.62 (.002)      | 8.7 (1.3)        |                      |
| 4.25       | 5.48 ( .19)      | 3.58 (.002)      | 8.1 (1.3)        |                      |
| 2.13       | 5.79 ( .19)      | 3.79 (.002)      | 7.3 (1.3)        |                      |
| 1.06       | 6.12 ( .21)      | 3.79 (.002)      | 6.5 (1.1)        |                      |
| .00        | 10.40            |                  |                  |                      |
| -.02       | 7.11             |                  |                  |                      |
| -.05       | 7.97             |                  |                  |                      |
| -.10       | 7.53             |                  |                  |                      |
| -.23       | 8.15             |                  |                  |                      |
| -.51       | 6.64             |                  |                  |                      |

## &gt;&gt;&gt; 80-05-09 0800 LT S Y N O P &lt;&lt;&lt;

|               |          |                        |            |               |         |
|---------------|----------|------------------------|------------|---------------|---------|
| CLOUDS        |          |                        |            | PRESIPITATION |         |
| LOW           | MID-HIGH | BASE (M)               | SINCE 19LT |               |         |
| 2/8 2/8 CU    |          | 300                    |            |               |         |
| PRESSURE (MB) |          | GEOSTROPHIC WIND (M/S) |            | VISIBILITY    | WEATHER |
| QFE           | QFF      | UG                     | VG         | (KM)          |         |
| 1000.3        | 1008.9   |                        |            | >20           |         |

## &gt;&gt;&gt; 0800 LT P R O F I L E S &lt;&lt;&lt;

|                      |                      |
|----------------------|----------------------|
| NET RADIATION        | GLOBAL RADIATION     |
| 372.6 ( 21.8) W/M**2 | 519.0 ( 62.7) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 5.47 ( .16)      | 3.53 (.001)      | 7.9 (1.2)        | 297.3 ( 10.4)        |
| 8.50       | 5.80 ( .19)      | 3.54 (.002)      | 7.3 (1.1)        |                      |
| 4.25       | 6.06 ( .22)      | 3.49 (.002)      | 7.1 (1.2)        |                      |
| 2.13       | 6.43 ( .21)      | 3.70 (.002)      | 6.4 (1.1)        |                      |
| 1.06       | 6.87 ( .21)      | 3.72 (.002)      | 5.7 (1.1)        |                      |
| .00        | 13.17            |                  |                  |                      |
| -.02       | 8.08             |                  |                  |                      |
| -.05       | 8.98             |                  |                  |                      |
| -.10       | 7.76             |                  |                  |                      |
| -.23       | 8.10             |                  |                  |                      |
| -.51       | 6.63             |                  |                  |                      |

## &gt;&gt;&gt; 0830 LT P R O F I L E S &lt;&lt;&lt;

|                      |                      |
|----------------------|----------------------|
| NET RADIATION        | GLOBAL RADIATION     |
| 426.2 ( 13.0) W/M**2 | 588.2 ( 14.4) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 5.84 ( .21)      | 3.36 (.003)      | 8.3 (1.2)        | 288.4 ( 9.7)         |
| 8.50       | 6.18 ( .24)      | 3.35 (.003)      | 8.0 (1.2)        |                      |
| 4.25       | 6.47 ( .28)      | 3.29 (.003)      | 7.6 (1.3)        |                      |
| 2.13       | 6.88 ( .27)      | 3.52 (.003)      | 6.9 (1.3)        |                      |
| 1.06       | 7.41 ( .27)      | 3.54 (.003)      | 6.2 (1.2)        |                      |
| .00        | 15.02            |                  |                  |                      |
| -.02       | 9.07             |                  |                  |                      |
| -.05       | 10.10            |                  |                  |                      |
| -.10       | 8.10             |                  |                  |                      |
| -.23       | 8.04             |                  |                  |                      |
| -.51       | 6.63             |                  |                  |                      |

&gt;&gt;&gt; 80-05-09 0900 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS  |               |        |          | BASE (M) |            |   |           |
|---------|---------------|--------|----------|----------|------------|---|-----------|
| I       | N             | LOW    | MID-HIGH |          | I          | I | I         |
| I       | 2/8           | 2/8 CU |          | 300      | I          | I | I         |
| I-----I |               |        |          |          |            |   |           |
| I       | PRESSURE (MB) |        |          | I        | VISIBILITY |   | I WEATHER |
| I       | QFE           | QFF    | I        | I        | (KM)       |   | I         |
| I       | 1001.2        | 1009.8 | I        | I        | >20        |   | I         |

----->>> 0900 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 460.0 ( 38.5) W/M\*\*2 627.9 ( 79.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.19 ( .22)    | I 3.24 (.002)    | I 9.2 (1.5)      | I 283.9 ( 10.0)      |
| I 8.50     | I 6.55 ( .24)    | I 3.22 (.002)    | I 8.7 (1.6)      | I                    |
| I 4.25     | I 6.89 ( .25)    | I 3.17 (.002)    | I 8.3 (1.5)      | I                    |
| I 2.13     | I 7.35 ( .23)    | I 3.40 (.002)    | I 7.6 (1.4)      | I                    |
| I 1.06     | I 7.94 ( .23)    | I 3.43 (.002)    | I 6.8 (1.4)      | I                    |
| I .00      | I 16.25          | I                |                  |                      |
| I -.02     | I 10.07          | I                |                  |                      |
| I -.05     | I 11.16          | I                |                  |                      |
| I -.10     | I 8.55           | I                |                  |                      |
| I -.23     | I 8.00           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

----->>> 0930 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 510.8 ( 12.3) W/M\*\*2 684.8 ( 39.3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.51 ( .29)    | I 3.10 (.003)    | I 8.8 (1.6)      | I 292.0 ( 12.6)      |
| I 8.50     | I 6.84 ( .32)    | I 3.06 (.003)    | I 8.3 (1.6)      | I                    |
| I 4.25     | I 7.16 ( .34)    | I 3.01 (.002)    | I 7.9 (1.6)      | I                    |
| I 2.13     | I 7.63 ( .33)    | I 3.23 (.003)    | I 7.2 (1.6)      | I                    |
| I 1.06     | I 8.24 ( .31)    | I 3.25 (.003)    | I 6.5 (1.5)      | I                    |
| I .00      | I 17.74          | I                |                  |                      |
| I -.02     | I 10.94          | I                |                  |                      |
| I -.05     | I 12.03          | I                |                  |                      |
| I -.10     | I 9.04           | I                |                  |                      |
| I -.23     | I 7.95           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

&gt;&gt;&gt; 80-05-09 1000 LT S Y N O P &lt;&lt;&lt;

| CLOUDS  |               |        |            | BASE (M) |            |   |           |
|---------|---------------|--------|------------|----------|------------|---|-----------|
| I       | N             | LOW    | MID-HIGH   |          | I          | I | I         |
| I       | 3/8           | 2/8 CB |            | 300      | I          | I | I         |
| I-----I |               |        |            |          |            |   |           |
| I       | PRESSURE (MB) |        |            | I        | VISIBILITY |   | I WEATHER |
| I       | QFE           | QFF    | I UG VG    | I        | (KM)       |   | I         |
| I       | 1002.5        | 1011.0 | I 8.9 -8.8 | I        | >20        |   | I         |

----->>> 1000 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 553.5 ( 39.1) W/M\*\*2 727.2 (100.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.84 ( .23)    | I 2.83 (.002)    | I 10.1 (1.4)     | I 289.3 ( 11.7)      |
| I 8.50     | I 7.19 ( .27)    | I 2.79 (.002)    | I 9.5 (1.4)      | I                    |
| I 4.25     | I 7.61 ( .28)    | I 2.78 (.002)    | I 9.0 (1.5)      | I                    |
| I 2.13     | I 8.16 ( .25)    | I 3.01 (.002)    | I 8.1 (1.3)      | I                    |
| I 1.06     | I 8.86 ( .25)    | I 3.03 (.002)    | I 7.3 (1.3)      | I                    |
| I .00      | I 19.10          | I                |                  |                      |
| I -.02     | I 11.91          | I                |                  |                      |
| I -.05     | I 12.96          | I                |                  |                      |
| I -.10     | I 9.54           | I                |                  |                      |
| I -.23     | I 7.94           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

----->>> 1030 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 615.9 ( 22.4) W/M\*\*2 804.7 ( 30.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.46 ( .36)    | I 2.71 (.003)    | I 9.5 (1.4)      | I 278.4 ( 10.1)      |
| I 8.50     | I 7.88 ( .39)    | I 2.68 (.003)    | I 8.9 (1.4)      | I                    |
| I 4.25     | I 8.30 ( .40)    | I 2.67 (.003)    | I 8.4 (1.5)      | I                    |
| I 2.13     | I 8.87 ( .35)    | I 2.89 (.003)    | I 7.8 (1.4)      | I                    |
| I 1.06     | I 9.61 ( .36)    | I 2.91 (.003)    | I 7.1 (1.4)      | I                    |
| I .00      | I 20.76          | I                |                  |                      |
| I -.02     | I 12.77          | I                |                  |                      |
| I -.05     | I 13.73          | I                |                  |                      |
| I -.10     | I 10.06          | I                |                  |                      |
| I -.23     | I 7.95           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

| CLOUDS |               |        |          |          |            |   |   |
|--------|---------------|--------|----------|----------|------------|---|---|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I          | I | I |
| I      | 5/8           | 5/8    | CB       | 700      | I          | I | I |
| -----  |               |        |          |          |            |   |   |
| I      | PRESSURE (MB) |        |          | I        | VISIBILITY |   | I |
| I      | QFE           |        |          | I        | (KM)       |   | I |
| I      | 1003.9        | 1012.5 | I        | I        | >20        |   | I |
|        |               |        |          |          | PRE V      |   | I |

----->>> 1100 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 251.1 (105.4) W/M\*\*2 325.3 (151.8) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.88 (.28)     | I 2.60 (.003)    | I 9.0 (1.6)      | I 284.6 (10.8)       |
| I 8.50     | I 7.16 (.32)     | I 2.54 (.004)    | I 8.4 (1.5)      | I                    |
| I 4.25     | I 7.45 (.38)     | I 2.49 (.004)    | I 8.1 (1.5)      | I                    |
| I 2.13     | I 7.84 (.41)     | I 2.68 (.004)    | I 7.4 (1.4)      | I                    |
| I 1.06     | I 8.35 (.49)     | I 2.62 (.004)    | I 6.6 (1.3)      | I                    |
| I .00      | I 16.99          | I                |                  |                      |
| I -.02     | I 13.03          | I                |                  |                      |
| I -.05     | I 14.42          | I                |                  |                      |
| I -.10     | I 10.58          | I                |                  |                      |
| I -.23     | I 7.96           | I                |                  |                      |
| I -.51     | I 6.64           | I                |                  |                      |

----->>> 1130 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 569.6 (121.8) W/M\*\*2 699.7 (232.4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.83 (.41)     | I 2.99 (.004)    | I 7.6 (1.2)      | I 283.4 (9.6)        |
| I 8.50     | I 7.15 (.47)     | I 2.96 (.004)    | I 7.3 (1.2)      | I                    |
| I 4.25     | I 7.48 (.51)     | I 2.92 (.004)    | I 7.0 (1.1)      | I                    |
| I 2.13     | I 8.00 (.54)     | I 3.17 (.006)    | I 6.4 (1.0)      | I                    |
| I 1.06     | I 8.74 (.61)     | I 3.20 (.006)    | I 5.7 (1.1)      | I                    |
| I .00      | I 20.72          | I                |                  |                      |
| I -.02     | I 12.69          | I                |                  |                      |
| I -.05     | I 13.53          | I                |                  |                      |
| I -.10     | I 10.94          | I                |                  |                      |
| I -.23     | I 7.97           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

&gt;&gt;&gt; 80-05-09 1200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |               |        |          |          |            |   |   |
|--------|---------------|--------|----------|----------|------------|---|---|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I          | I | I |
| I      | 6/8           | 6/8    | CB       | 700      | I          | I | I |
| -----  |               |        |          |          |            |   |   |
| I      | PRESSURE (MB) |        |          | I        | VISIBILITY |   | I |
| I      | QFE           |        |          | I        | (KM)       |   | I |
| I      | 1004.7        | 1013.3 | I        | I        | >20        |   | I |
|        |               |        |          |          | PRE V      |   | I |

----->>> 1200 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 365.5 (144.8) W/M\*\*2 487.1 (257.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.35 (.25)     | I 2.82 (.002)    | I 9.4 (1.8)      | I 284.2 (10.6)       |
| I 8.50     | I 7.66 (.30)     | I 2.77 (.002)    | I 8.8 (1.7)      | I                    |
| I 4.25     | I 7.97 (.34)     | I 2.73 (.002)    | I 8.3 (1.7)      | I                    |
| I 2.13     | I 8.41 (.37)     | I 2.92 (.003)    | I 7.5 (1.6)      | I                    |
| I 1.06     | I 9.02 (.43)     | I 2.88 (.002)    | I 6.7 (1.5)      | I                    |
| I .00      | I 16.86          | I                |                  |                      |
| I -.02     | I 13.18          | I                |                  |                      |
| I -.05     | I 14.29          | I                |                  |                      |
| I -.10     | I 11.13          | I                |                  |                      |
| I -.23     | I 8.01           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

----->>> 1230 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 294.9 (181.6) W/M\*\*2 397.9 (255.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.74 (.39)     | I 3.03 (.006)    | I 9.3 (1.8)      | I 307.7 (16.3)       |
| I 8.50     | I 6.97 (.40)     | I 2.99 (.007)    | I 8.7 (1.7)      | I                    |
| I 4.25     | I 7.20 (.42)     | I 2.93 (.006)    | I 8.2 (1.7)      | I                    |
| I 2.13     | I 7.59 (.42)     | I 3.14 (.007)    | I 7.4 (1.6)      | I                    |
| I 1.06     | I 7.99 (.49)     | I 3.05 (.007)    | I 6.6 (1.4)      | I                    |
| I .00      | I 13.31          | I                |                  |                      |
| I -.02     | I 12.25          | I                |                  |                      |
| I -.05     | I 13.69          | I                |                  |                      |
| I -.10     | I 11.38          | I                |                  |                      |
| I -.23     | I 8.06           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

&gt;&gt;&gt; 80-05-09 1300 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS        |          |                        |          | PRESIPITATION |           |
|---------------|----------|------------------------|----------|---------------|-----------|
| I N           | LOW      | MID-HIGH               | BASE (M) | I SINCE 01LT  | I         |
| I 5/8         | 5/8 CB   |                        | 900      | I .1 (MM)     | I         |
| PRESSURE (MB) |          | GEOSTROPHIC WIND (M/S) |          | VISIBILITY    |           |
| I QFE         | I QFF    | I UG                   | I VG     | I (KM)        | I WEATHER |
| I 1006.4      | I 1015.0 | I 8.8                  | I -8.3   | I 12.5        | I -5.6    |

&gt;&gt;&gt; 1300 LT P R O F I L E S &lt;&lt;&lt;

| NET RADIATION        | GLOBAL RADIATION     |
|----------------------|----------------------|
| 569.5 ( 89.8) W/M**2 | 729.3 (170.6) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.47 ( .29)    | I 3.13 (.003)    | I 10.8 (1.5)     | I 313.6 ( 10.0)      |
| I 8.50     | I 6.83 ( .30)    | I 3.08 (.002)    | I 10.1 (1.5)     | I                    |
| I 4.25     | I 7.23 ( .33)    | I 3.05 (.002)    | I 9.5 (1.6)      | I                    |
| I 2.13     | I 7.87 ( .32)    | I 3.29 (.002)    | I 8.5 (1.5)      | I                    |
| I 1.06     | I 8.49 ( .34)    | I 3.27 (.002)    | I 7.7 (1.6)      | I                    |
| I .00      | I 16.61          | I                |                  |                      |
| I -.02     | I 13.21          | I                |                  |                      |
| I -.05     | I 13.71          | I                |                  |                      |
| I -.10     | I 11.43          | I                |                  |                      |
| I -.23     | I 8.13           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

&gt;&gt;&gt; 1330 LT P R O F I L E S &lt;&lt;&lt;

| NET RADIATION        | GLOBAL RADIATION     |
|----------------------|----------------------|
| 575.6 ( 14.2) W/M**2 | 754.6 ( 16.5) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.86 ( .36)    | I 2.80 (.005)    | I 10.4 (1.6)     | I 297.3 ( 10.4)      |
| I 8.50     | I 7.24 ( .38)    | I 2.76 (.005)    | I 10.0 (1.6)     | I                    |
| I 4.25     | I 7.68 ( .39)    | I 2.74 (.004)    | I 9.4 (1.5)      | I                    |
| I 2.13     | I 8.28 ( .35)    | I 2.96 (.005)    | I 8.6 (1.5)      | I                    |
| I 1.06     | I 8.95 ( .36)    | I 2.94 (.005)    | I 7.7 (1.4)      | I                    |
| I .00      | I 18.38          | I                |                  |                      |
| I -.02     | I 13.96          | I                |                  |                      |
| I -.05     | I 14.27          | I                |                  |                      |
| I -.10     | I 11.55          | I                |                  |                      |
| I -.23     | I 8.19           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

&gt;&gt;&gt; 80-05-09 1400 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |          |            |          | PRESIPITATION |   |
|---------------|----------|------------|----------|---------------|---|
| I N           | LOW      | MID-HIGH   | BASE (M) | I             | I |
| I 2/8         | 2/8 CU   | CI         | 900 7000 | I             | I |
| PRESSURE (MB) |          | VISIBILITY |          | WEATHER       |   |
| I QFE         | I QFF    | I          | I (KM)   | I             | I |
| I 1007.1      | I 1015.7 | I          | I >20    | I             | I |

&gt;&gt;&gt; 1400 LT P R O F I L E S &lt;&lt;&lt;

| NET RADIATION        | GLOBAL RADIATION     |
|----------------------|----------------------|
| 575.5 ( 22.7) W/M**2 | 762.8 ( 25.0) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.41 ( .24)    | I 2.45 (.002)    | I 11.1 (1.4)     | I 289.7 ( 8.4)       |
| I 8.50     | I 7.80 ( .28)    | I 2.41 (.002)    | I 10.4 (1.5)     | I                    |
| I 4.25     | I 8.20 ( .29)    | I 2.40 (.002)    | I 9.9 (1.4)      | I                    |
| I 2.13     | I 8.78 ( .29)    | I 2.61 (.002)    | I 9.1 (1.3)      | I                    |
| I 1.06     | I 9.49 ( .30)    | I 2.59 (.002)    | I 8.2 (1.3)      | I                    |
| I .00      | I 18.66          | I                |                  |                      |
| I -.02     | I 14.26          | I                |                  |                      |
| I -.05     | I 14.74          | I                |                  |                      |
| I -.10     | I 11.76          | I                |                  |                      |
| I -.23     | I 8.26           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

&gt;&gt;&gt; 1430 LT P R O F I L E S &lt;&lt;&lt;

| NET RADIATION        | GLOBAL RADIATION     |
|----------------------|----------------------|
| 523.0 ( 47.0) W/M**2 | 700.4 (130.0) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.94 ( .28)    | I 2.26 (.003)    | I 10.1 (1.4)     | I 284.0 ( 10.3)      |
| I 8.50     | I 8.33 ( .32)    | I 2.22 (.003)    | I 9.5 (1.3)      | I                    |
| I 4.25     | I 8.73 ( .36)    | I 2.22 (.003)    | I 9.2 (1.3)      | I                    |
| I 2.13     | I 9.30 ( .36)    | I 2.41 (.003)    | I 8.4 (1.2)      | I                    |
| I 1.06     | I 10.05 ( .36)   | I 2.38 (.003)    | I 7.7 (1.2)      | I                    |
| I .00      | I 20.31          | I                |                  |                      |
| I -.02     | I 15.13          | I                |                  |                      |
| I -.05     | I 15.33          | I                |                  |                      |
| I -.10     | I 12.02          | I                |                  |                      |
| I -.23     | I 8.33           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

| CLOUDS            |     |        |          | BASE (M)       |      |             |   |
|-------------------|-----|--------|----------|----------------|------|-------------|---|
| I                 | N   | LOW    | MID-HIGH | I              | I    | I           | I |
| I                 | 2/8 | 1/8 CU | CI       | 900            | 7000 | I           | I |
| I PRESSURE (MB) I |     |        |          | I VISIBILITY I |      | I WEATHER I |   |
| I QFE QFF I       |     |        |          | I (KM) I       |      | I I         |   |
| I 1007.6 1016.1 I |     |        |          | I >20 I        |      | I I         |   |

>>> 1500 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 442.2 ( 12.1) W/M\*\*2 630.1 ( 12.8) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00 I  | 8.01 ( .21)      | I 2.09 (.001)    | I 9.9 (1.5)      | I 281.6 ( 10.2) I    |
| I 8.50 I   | 8.35 ( .27)      | I 2.04 (.001)    | I 9.2 (1.7)      | I I                  |
| I 4.25 I   | 8.70 ( .28)      | I 2.05 (.001)    | I 8.8 (1.5)      | I I                  |
| I 2.13 I   | 9.23 ( .29)      | I 2.20 (.002)    | I 8.0 (1.5)      | I I                  |
| I 1.06 I   | 9.95 ( .30)      | I 2.18 (.001)    | I 7.2 (1.5)      | I I                  |
| I .00 I    | 15.49            | I                |                  |                      |
| I -.02 I   | 13.78            | I                |                  |                      |
| I -.05 I   | 14.93            | I                |                  |                      |
| I -.10 I   | 12.28            | I                |                  |                      |
| I -.23 I   | 8.40             | I                |                  |                      |
| I -.51 I   | 6.62             | I                |                  |                      |

>>> 1530 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 382.3 ( 12.7) W/M\*\*2 568.7 ( 12.3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00 I  | 8.47 ( .32)      | I 1.98 (.002)    | I 9.0 (1.3)      | I 282.9 ( 12.4) I    |
| I 8.50 I   | 8.80 ( .33)      | I 1.94 (.002)    | I 8.5 (1.3)      | I I                  |
| I 4.25 I   | 9.13 ( .38)      | I 1.94 (.002)    | I 8.1 (1.3)      | I I                  |
| I 2.13 I   | 9.59 ( .39)      | I 2.08 (.002)    | I 7.3 (1.2)      | I I                  |
| I 1.06 I   | 10.23 ( .41)     | I 2.06 (.002)    | I 6.7 (1.2)      | I I                  |
| I .00 I    | 17.50            | I                |                  |                      |
| I -.02 I   | 14.21            | I                |                  |                      |
| I -.05 I   | 14.44            | I                |                  |                      |
| I -.10 I   | 12.40            | I                |                  |                      |
| I -.23 I   | 8.45             | I                |                  |                      |
| I -.51 I   | 6.61             | I                |                  |                      |

&gt;&gt;&gt; 80-05-09 1600 LT S Y N O P &lt;&lt;&lt;

| CLOUDS            |     |        |          | BASE (M)                   |      |                |   |
|-------------------|-----|--------|----------|----------------------------|------|----------------|---|
| I                 | N   | LOW    | MID-HIGH | I                          | I    | I              | I |
| I                 | 2/8 | 1/8 CU | CI       | 900                        | 7000 | I              | I |
| I PRESSURE (MB) I |     |        |          | I GEOSTROPHIC WIND (M/S) I |      | I VISIBILITY I |   |
| I QFE QFF I       |     |        |          | I UG VG I                  |      | I (KM) I       |   |
| I 1008.4 1016.9 I |     |        |          | I 9.2 -6.3 I               |      | I >20 I        |   |

>>> 1600 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 314.9 ( 13.3) W/M\*\*2 495.0 ( 14.5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00 I  | 8.64 ( .21)      | I 1.82 (.001)    | I 9.8 (1.4)      | I 280.3 ( 7.2) I     |
| I 8.50 I   | 8.92 ( .23)      | I 1.76 (.002)    | I 9.1 (1.5)      | I I                  |
| I 4.25 I   | 9.19 ( .25)      | I 1.77 (.001)    | I 8.7 (1.5)      | I I                  |
| I 2.13 I   | 9.57 ( .24)      | I 1.88 (.002)    | I 8.0 (1.4)      | I I                  |
| I 1.06 I   | 10.16 ( .24)     | I 1.86 (.002)    | I 7.3 (1.3)      | I I                  |
| I .00 I    | 16.35            | I                |                  |                      |
| I -.02 I   | 13.99            | I                |                  |                      |
| I -.05 I   | 14.29            | I                |                  |                      |
| I -.10 I   | 12.39            | I                |                  |                      |
| I -.23 I   | 8.53             | I                |                  |                      |
| I -.51 I   | 6.61             | I                |                  |                      |

>>> 1630 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 250.4 ( 14.0) W/M\*\*2 426.7 ( 14.0) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00 I  | 8.84 ( .20)      | I 1.80 (.002)    | I 9.3 (1.5)      | I 284.5 ( 8.4) I     |
| I 8.50 I   | 9.13 ( .19)      | I 1.74 (.002)    | I 8.8 (1.5)      | I I                  |
| I 4.25 I   | 9.39 ( .18)      | I 1.76 (.002)    | I 8.3 (1.4)      | I I                  |
| I 2.13 I   | 9.72 ( .17)      | I 1.87 (.002)    | I 7.6 (1.4)      | I I                  |
| I 1.06 I   | 10.24 ( .15)     | I 1.84 (.002)    | I 6.9 (1.4)      | I I                  |
| I .00 I    | 15.01            | I                |                  |                      |
| I -.02 I   | 13.40            | I                |                  |                      |
| I -.05 I   | 13.80            | I                |                  |                      |
| I -.10 I   | 12.36            | I                |                  |                      |
| I -.23 I   | 8.59             | I                |                  |                      |
| I -.51 I   | 6.59             | I                |                  |                      |

&gt;&gt;&gt; 80-05-09 1700 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS            |     |        |          | BASE (M)     |      | I         |   | I SOILWATER I |              |
|-------------------|-----|--------|----------|--------------|------|-----------|---|---------------|--------------|
| I                 | N   | LOW    | MID-HIGH | 900          | 7000 | I         | I | I             | I            |
| I                 | 1/8 | 1/8 CB | CI       |              |      | I         |   | I             | 60.44 (MM) I |
| -----I-----       |     |        |          |              |      |           |   |               |              |
| I PRESSURE (MB) I |     |        |          | I VISIBILITY |      | I WEATHER |   | I             |              |
| I QFE QFF I       |     |        |          | I (KM)       |      | I         |   | I             |              |
| I 1009.1 1017.7 I |     |        |          | I >20        |      | I         |   | I             |              |

&gt;&gt;&gt; 1700 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
184.6 ( 10.9) W/M\*\*2 358.1 ( 11.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00 I  | 8.95 ( .11)      | I 1.66 (.002) I  | 9.4 (1.4) I      | 287.6 ( 8.0) I       |
| I 8.50 I   | 9.19 ( .12)      | I 1.60 (.002) I  | 8.6 (1.5) I      | I                    |
| I 4.25 I   | 9.38 ( .14)      | I 1.63 (.002) I  | 8.3 (1.5) I      | I                    |
| I 2.13 I   | 9.66 ( .13)      | I 1.73 (.002) I  | 7.4 (1.4) I      | I                    |
| I 1.06 I   | 10.06 ( .15)     | I 1.69 (.002) I  | 6.7 (1.3) I      | I                    |
| I .00 I    | 13.39            | I                |                  |                      |
| I -.02 I   | 12.82            | I                |                  |                      |
| I -.05 I   | 13.23            | I                |                  |                      |
| I -.10 I   | 12.26            | I                |                  |                      |
| I -.23 I   | 8.68             | I                |                  |                      |
| I -.51 I   | 6.61             | I                |                  |                      |

&gt;&gt;&gt; 1730 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
121.9 ( 14.4) W/M\*\*2 288.4 ( 15.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00 I  | 9.00 ( .07)      | I 1.62 (.001) I  | 9.2 (1.4) I      | 287.7 ( 7.7) I       |
| I 8.50 I   | 9.22 ( .09)      | I 1.57 (.001) I  | 8.6 (1.5) I      | I                    |
| I 4.25 I   | 9.39 ( .11)      | I 1.61 (.001) I  | 8.1 (1.4) I      | I                    |
| I 2.13 I   | 9.62 ( .13)      | I 1.70 (.001) I  | 7.3 (1.3) I      | I                    |
| I 1.06 I   | 9.88 ( .15)      | I 1.64 (.001) I  | 6.5 (1.3) I      | I                    |
| I .00 I    | 13.01            | I                |                  |                      |
| I -.02 I   | 12.32            | I                |                  |                      |
| I -.05 I   | 12.62            | I                |                  |                      |
| I -.10 I   | 12.09            | I                |                  |                      |
| I -.23 I   | 8.75             | I                |                  |                      |
| I -.51 I   | 6.61             | I                |                  |                      |

&gt;&gt;&gt; 80-05-09 1800 LT S Y N O P &lt;&lt;&lt;

| CLOUDS            |     |        |          | BASE (M)     |      | I         |   | I |   |
|-------------------|-----|--------|----------|--------------|------|-----------|---|---|---|
| I                 | N   | LOW    | MID-HIGH | 900          | 7000 | I         | I | I | I |
| I                 | 1/8 | 1/8 CB | CI       |              |      | I         |   | I | I |
| -----I-----       |     |        |          |              |      |           |   |   |   |
| I PRESSURE (MB) I |     |        |          | I VISIBILITY |      | I WEATHER |   | I |   |
| I QFE QFF I       |     |        |          | I (KM)       |      | I         |   | I |   |
| I 1009.6 1018.2 I |     |        |          | I >20        |      | I         |   | I |   |

&gt;&gt;&gt; 1800 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
53.7 ( 12.7) W/M\*\*2 211.8 ( 14.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00 I  | 9.16 ( .05)      | I 1.69 (.002) I  | 7.5 (1.3) I      | 285.5 ( 8.1) I       |
| I 8.50 I   | 9.32 ( .05)      | I 1.64 (.002) I  | 7.1 (1.1) I      | I                    |
| I 4.25 I   | 9.43 ( .07)      | I 1.66 (.001) I  | 6.6 (1.1) I      | I                    |
| I 2.13 I   | 9.59 ( .07)      | I 1.76 (.002) I  | 5.9 (1.0) I      | I                    |
| I 1.06 I   | 9.78 ( .08)      | I 1.69 (.001) I  | 5.3 (1.0) I      | I                    |
| I .00 I    | 11.76            | I                |                  |                      |
| I -.02 I   | 11.75            | I                |                  |                      |
| I -.05 I   | 11.93            | I                |                  |                      |
| I -.10 I   | 11.87            | I                |                  |                      |
| I -.23 I   | 8.81             | I                |                  |                      |
| I -.51 I   | 6.59             | I                |                  |                      |

&gt;&gt;&gt; 1830 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
-6.7 ( 10.8) W/M\*\*2 140.3 ( 12.3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00 I  | 9.10 ( .02)      | I 1.75 (.002) I  | 6.8 (1.1) I      | 278.3 ( 7.4) I       |
| I 8.50 I   | 9.23 ( .02)      | I 1.71 (.002) I  | 6.2 (1.1) I      | I                    |
| I 4.25 I   | 9.30 ( .03)      | I 1.72 (.002) I  | 5.9 (1.0) I      | I                    |
| I 2.13 I   | 9.37 ( .05)      | I 1.81 (.002) I  | 5.3 (1.0) I      | I                    |
| I 1.06 I   | 9.51 ( .07)      | I 1.73 (.002) I  | 4.7 ( .9) I      | I                    |
| I .00 I    | 10.29            | I                |                  |                      |
| I -.02 I   | 11.05            | I                |                  |                      |
| I -.05 I   | 11.26            | I                |                  |                      |
| I -.10 I   | 11.59            | I                |                  |                      |
| I -.23 I   | 8.86             | I                |                  |                      |
| I -.51 I   | 6.59             | I                |                  |                      |

|               |        |          |                        |               |            |
|---------------|--------|----------|------------------------|---------------|------------|
| CLOUDS        |        |          |                        | PRESIPITATION |            |
| N             | LOW    | MID-HIGH | BASE (M)               | SINCE 07LT    |            |
| 1/8           | 1/8 CU |          |                        | .0 (MM)       |            |
| PRESSURE (MB) |        |          | GEOSTROPHIC WIND (M/S) |               | VISIBILITY |
| QFE           | QFF    | IIG      | VG                     | (KM)          | WEATHER    |
| 1010.1        | 1018.7 | 10.1     | -5.7                   | >20           |            |

1900 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -57.6 ( 8.6) W/M\*\*2 79.1 ( 11.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 8.90 (.11)       | 1.89 (.002)      | 6.2 (.8)         | 265.4 ( 6.7)         |
| 8.50       | 8.95 (.13)       | 1.84 (.002)      | 5.7 (.8)         |                      |
| 4.25       | 8.95 (.15)       | 1.83 (.002)      | 5.4 (.8)         |                      |
| 2.13       | 8.94 (.17)       | 1.92 (.002)      | 4.8 (.8)         |                      |
| 1.06       | 8.96 (.19)       | 1.82 (.002)      | 4.3 (.8)         |                      |
| .00        | 8.83             |                  |                  |                      |
| -.02       | 10.29            |                  |                  |                      |
| -.05       | 10.57            |                  |                  |                      |
| -.10       | 11.26            |                  |                  |                      |
| -.23       | 8.90             |                  |                  |                      |
| -.51       | 6.57             |                  |                  |                      |

1930 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -92.6 ( 5.2) W/M\*\*2 30.9 ( 7.4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 8.47 (.11)       | 2.27 (.002)      | 6.6 (.9)         | 265.5 ( 5.5)         |
| 8.50       | 8.48 (.12)       | 2.22 (.002)      | 6.1 (.8)         |                      |
| 4.25       | 8.40 (.14)       | 2.18 (.002)      | 5.8 (.8)         |                      |
| 2.13       | 8.34 (.16)       | 2.29 (.002)      | 5.1 (.7)         |                      |
| 1.06       | 8.24 (.17)       | 2.14 (.002)      | 4.5 (.7)         |                      |
| .00        | 7.48             |                  |                  |                      |
| -.02       | 9.35             |                  |                  |                      |
| -.05       | 9.90             |                  |                  |                      |
| -.10       | 10.93            |                  |                  |                      |
| -.23       | 8.94             |                  |                  |                      |
| -.51       | 6.58             |                  |                  |                      |

&gt;&gt;&gt; 80-05-09 2000 LT S Y N O P &lt;&lt;&lt;

|               |        |          |                        |               |            |
|---------------|--------|----------|------------------------|---------------|------------|
| CLOUDS        |        |          |                        | PRESIPITATION |            |
| N             | LOW    | MID-HIGH | BASE (M)               | SINCE 07LT    |            |
| 1/8           | /R     | CI       | 7000                   |               |            |
| PRESSURE (MB) |        |          | GEOSTROPHIC WIND (M/S) |               | VISIBILITY |
| QFE           | QFF    | I        |                        | (KM)          | WEATHER    |
| 1010.9        | 1019.5 |          |                        | >20           |            |

2000 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -107.3 ( .7) W/M\*\*2 5.4 ( 2.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 7.98 (.17)       | 2.34 (.002)      | 5.9 (.6)         | 263.7 ( 5.5)         |
| 8.50       | 7.87 (.25)       | 2.30 (.002)      | 5.4 (.6)         |                      |
| 4.25       | 7.66 (.32)       | 2.23 (.002)      | 5.0 (.6)         |                      |
| 2.13       | 7.48 (.34)       | 2.35 (.002)      | 4.3 (.7)         |                      |
| 1.06       | 7.28 (.35)       | 2.19 (.002)      | 3.8 (.7)         |                      |
| .00        | 6.03             |                  |                  |                      |
| -.02       | 8.44             |                  |                  |                      |
| -.05       | 9.27             |                  |                  |                      |
| -.10       | 10.57            |                  |                  |                      |
| -.23       | 8.96             |                  |                  |                      |
| -.51       | 6.58             |                  |                  |                      |

2030 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -107.5 ( .6) W/M\*\*2 -1.6 ( .8) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 7.25 (.13)       | 2.45 (.001)      | 5.0 (.5)         | 258.9 ( 3.2)         |
| 8.50       | 6.98 (.15)       | 2.42 (.001)      | 4.3 (.5)         |                      |
| 4.25       | 6.60 (.17)       | 2.33 (.001)      | 3.8 (.4)         |                      |
| 2.13       | 6.28 (.19)       | 2.45 (.001)      | 3.2 (.4)         |                      |
| 1.06       | 5.99 (.22)       | 2.25 (.001)      | 2.8 (.4)         |                      |
| .00        | 4.68             |                  |                  |                      |
| -.02       | 7.64             |                  |                  |                      |
| -.05       | 8.63             |                  |                  |                      |
| -.10       | 10.22            |                  |                  |                      |
| -.23       | 8.99             |                  |                  |                      |
| -.51       | 6.59             |                  |                  |                      |

| CLOUDS        |          | BASE (M) |            |      |      |
|---------------|----------|----------|------------|------|------|
| LOW           | MID-HIGH |          |            |      |      |
| 1/8           | /8       | AC       | CI         | 3000 | 7000 |
| I             | I        | I        | I          | I    | I    |
| I             | I        | I        | I          | I    | I    |
| I             | I        | I        | I          | I    | I    |
| PRESSURE (MB) |          |          | VISIBILITY |      |      |
| QFE QFF       |          |          | (KM)       |      |      |
| 1011.6 1020.3 |          |          | >20        |      |      |

2100 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -104.2 ( .7) W/M\*\*2 -3.0 ( .3) W/M\*\*2

| HEIGHT (M) | TEMP. (DEG. CENTG) | MIX. RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|--------------------|-------------------|------------------|----------------------|
| I 17.00    | I 6.76 ( .05)      | I 2.53 (.001)     | I 5.2 ( .4)      | I 264.1 ( 3.4)       |
| I 8.50     | I 6.47 ( .07)      | I 2.50 (.001)     | I 4.5 ( .4)      | I                    |
| I 4.25     | I 6.02 ( .07)      | I 2.40 (.001)     | I 3.9 ( .4)      | I                    |
| I 2.13     | I 5.63 ( .10)      | I 2.53 (.001)     | I 3.3 ( .4)      | I                    |
| I 1.06     | I 5.28 ( .12)      | I 2.33 (.001)     | I 2.8 ( .4)      | I                    |
| I .00      | I 3.85             | I                 |                  |                      |
| I -.02     | I 6.93             | I                 |                  |                      |
| I -.05     | I 8.00             | I                 |                  |                      |
| I -.10     | I 9.82             | I                 |                  |                      |
| I -.23     | I 8.97             | I                 |                  |                      |
| I -.51     | I 6.58             | I                 |                  |                      |

2130 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -103.6 ( .7) W/M\*\*2 -3.1 ( .3) W/M\*\*2

| HEIGHT (M) | TEMP. (DEG. CENTG) | MIX. RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|--------------------|-------------------|------------------|----------------------|
| I 17.00    | I 6.75 ( .05)      | I 2.72 (.002)     | I 6.1 ( .6)      | I 264.9 ( 4.5)       |
| I 8.50     | I 6.54 ( .07)      | I 2.70 (.002)     | I 5.3 ( .5)      | I                    |
| I 4.25     | I 6.27 ( .08)      | I 2.61 (.002)     | I 4.8 ( .6)      | I                    |
| I 2.13     | I 6.02 ( .08)      | I 2.74 (.001)     | I 4.2 ( .5)      | I                    |
| I 1.06     | I 5.76 ( .10)      | I 2.57 (.002)     | I 3.7 ( .6)      | I                    |
| I .00      | I 3.91             | I                 |                  |                      |
| I -.02     | I 6.45             | I                 |                  |                      |
| I -.05     | I 7.51             | I                 |                  |                      |
| I -.10     | I 9.45             | I                 |                  |                      |
| I -.23     | I 8.97             | I                 |                  |                      |
| I -.51     | I 6.59             | I                 |                  |                      |

&gt;&gt;&gt; 80-05-09 2200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |          | BASE (M) |                        |      |      |
|---------------|----------|----------|------------------------|------|------|
| LOW           | MID-HIGH |          |                        |      |      |
| 1/8           | /8       | AC       | CI                     | 3000 | 7000 |
| I             | I        | I        | I                      | I    | I    |
| I             | I        | I        | I                      | I    | I    |
| I             | I        | I        | I                      | I    | I    |
| PRESSURE (MB) |          |          | GEOSTROPHIC WIND (M/S) |      |      |
| QFE QFF       |          |          | UG VG                  |      |      |
| 1012.3 1021.0 |          |          | 10.5 -4.9              |      |      |
|               |          |          | VISIBILITY             |      |      |
|               |          |          | (KM)                   |      |      |
|               |          |          | >20                    |      |      |
|               |          |          | WEATHER                |      |      |
|               |          |          |                        |      |      |

2200 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -104.9 ( .3) W/M\*\*2 -2.5 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP. (DEG. CENTG) | MIX. RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|--------------------|-------------------|------------------|----------------------|
| I 17.00    | I 6.59 ( .09)      | I 2.85 (.001)     | I 6.2 ( .6)      | I 265.2 ( 3.8)       |
| I 8.50     | I 6.43 ( .09)      | I 2.82 (.001)     | I 5.5 ( .6)      | I                    |
| I 4.25     | I 6.19 ( .10)      | I 2.73 (.001)     | I 5.0 ( .6)      | I                    |
| I 2.13     | I 5.97 ( .10)      | I 2.86 (.001)     | I 4.4 ( .6)      | I                    |
| I 1.06     | I 5.71 ( .09)      | I 2.69 (.001)     | I 3.8 ( .6)      | I                    |
| I .00      | I 3.81             | I                 |                  |                      |
| I -.02     | I 6.13             | I                 |                  |                      |
| I -.05     | I 7.14             | I                 |                  |                      |
| I -.10     | I 9.10             | I                 |                  |                      |
| I -.23     | I 8.96             | I                 |                  |                      |
| I -.51     | I 6.59             | I                 |                  |                      |

2230 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -104.6 ( .0) W/M\*\*2 -2.6 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP. (DEG. CENTG) | MIX. RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|--------------------|-------------------|------------------|----------------------|
| I 17.00    | I 6.13 ( .12)      | I 2.93 (.002)     | I 6.1 ( .6)      | I 265.1 ( 3.7)       |
| I 8.50     | I 5.94 ( .12)      | I 2.91 (.002)     | I 5.3 ( .6)      | I                    |
| I 4.25     | I 5.69 ( .12)      | I 2.80 (.002)     | I 4.9 ( .5)      | I                    |
| I 2.13     | I 5.45 ( .13)      | I 2.93 (.002)     | I 4.3 ( .6)      | I                    |
| I 1.06     | I 5.20 ( .14)      | I 2.74 (.002)     | I 3.7 ( .6)      | I                    |
| I .00      | I 3.44             | I                 |                  |                      |
| I -.02     | I 5.80             | I                 |                  |                      |
| I -.05     | I 6.80             | I                 |                  |                      |
| I -.10     | I 8.77             | I                 |                  |                      |
| I -.23     | I 8.94             | I                 |                  |                      |
| I -.51     | I 6.61             | I                 |                  |                      |

| CLOUDS            |    |     |          |           |                |   |             |  |
|-------------------|----|-----|----------|-----------|----------------|---|-------------|--|
| I                 | N  | LOW | MID-HIGH | BASE (M)  | I              | I | I           |  |
| I 1/8             | /8 | AC  | CI       | 3000 7000 | I              | I | I           |  |
| I PRESSURE (MB) I |    |     |          |           | I VISIBILITY I |   | I WEATHER I |  |
| I QFE QFF I       |    |     |          |           | I (KM) I       |   | I I         |  |
| I 1012.8 1021.5 I |    |     |          |           | I >20 I        |   | I I         |  |

----->>> 2300 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -104.5 ( .2) W/M\*\*2 -2.7 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.75 ( .07)    | I 3.08 (.001)    | I 5.8 ( .4)      | I 263.0 ( 3.9)       |
| I 8.50     | I 5.53 ( .08)    | I 3.07 (.001)    | I 5.1 ( .5)      | I                    |
| I 4.25     | I 5.21 ( .10)    | I 2.94 (.001)    | I 4.6 ( .5)      | I                    |
| I 2.13     | I 4.96 ( .12)    | I 3.06 (.001)    | I 3.9 ( .5)      | I                    |
| I 1.06     | I 4.71 ( .13)    | I 2.87 (.001)    | I 3.4 ( .5)      | I                    |
| I .00      | I 2.92           | I                |                  |                      |
| I -.02     | I 5.47           | I                |                  |                      |
| I -.05     | I 6.45           | I                |                  |                      |
| I -.10     | I 8.48           | I                |                  |                      |
| I -.23     | I 8.90           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

----->>> 2330 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -105.1 ( .0) W/M\*\*2 -2.7 ( .3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.61 ( .07)    | I 3.16 (.001)    | I 6.6 ( .8)      | I 264.6 ( 5.1)       |
| I 8.50     | I 5.44 ( .09)    | I 3.15 (.001)    | I 5.9 ( .8)      | I                    |
| I 4.25     | I 5.20 ( .12)    | I 3.04 (.001)    | I 5.4 ( .8)      | I                    |
| I 2.13     | I 5.01 ( .14)    | I 3.17 (.001)    | I 4.8 ( .8)      | I                    |
| I 1.06     | I 4.78 ( .15)    | I 2.99 (.001)    | I 4.2 ( .8)      | I                    |
| I .00      | I 2.90           | I                |                  |                      |
| I -.02     | I 5.18           | I                |                  |                      |
| I -.05     | I 6.14           | I                |                  |                      |
| I -.10     | I 8.19           | I                |                  |                      |
| I -.23     | I 8.85           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

&gt;&gt;&gt; 80-05-10 0000 LT S Y N O P &lt;&lt;&lt;

| CLOUDS            |    |     |          |           |                |   |             |  |
|-------------------|----|-----|----------|-----------|----------------|---|-------------|--|
| I                 | N  | LOW | MID-HIGH | BASE (M)  | I              | I | I           |  |
| I 1/8             | /8 | AC  | CI       | 3000 7000 | I              | I | I           |  |
| I PRESSURE (MB) I |    |     |          |           | I VISIBILITY I |   | I WEATHER I |  |
| I QFE QFF I       |    |     |          |           | I (KM) I       |   | I I         |  |
| I 1013.5 1022.2 I |    |     |          |           | I >20 I        |   | I I         |  |

----->>> 0000 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -104.6 ( .4) W/M\*\*2 -2.4 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.34 ( .07)    | I 3.21 (.001)    | I 6.4 ( .6)      | I 267.6 ( 5.0)       |
| I 8.50     | I 5.23 ( .08)    | I 3.21 (.001)    | I 5.7 ( .6)      | I                    |
| I 4.25     | I 5.02 ( .10)    | I 3.09 (.001)    | I 5.3 ( .6)      | I                    |
| I 2.13     | I 4.83 ( .10)    | I 3.21 (.001)    | I 4.7 ( .6)      | I                    |
| I 1.06     | I 4.60 ( .11)    | I 3.04 (.001)    | I 4.1 ( .7)      | I                    |
| I .00      | I 2.81           | I                |                  |                      |
| I -.02     | I 4.99           | I                |                  |                      |
| I -.05     | I 5.90           | I                |                  |                      |
| I -.10     | I 7.91           | I                |                  |                      |
| I -.23     | I 8.78           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

----->>> 0030 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -103.2 ( .2) W/M\*\*2 -2.4 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.05 ( .11)    | I 3.24 (.001)    | I 6.4 ( .6)      | I 267.1 ( 4.7)       |
| I 8.50     | I 4.92 ( .12)    | I 3.24 (.001)    | I 5.7 ( .6)      | I                    |
| I 4.25     | I 4.71 ( .12)    | I 3.12 (.001)    | I 5.2 ( .6)      | I                    |
| I 2.13     | I 4.53 ( .12)    | I 3.25 (.001)    | I 4.6 ( .6)      | I                    |
| I 1.06     | I 4.31 ( .11)    | I 3.07 (.001)    | I 4.1 ( .6)      | I                    |
| I .00      | I 2.53           | I                |                  |                      |
| I -.02     | I 4.75           | I                |                  |                      |
| I -.05     | I 5.64           | I                |                  |                      |
| I -.10     | I 7.67           | I                |                  |                      |
| I -.23     | I 8.72           | I                |                  |                      |
| I -.51     | I 6.64           | I                |                  |                      |

| CLOUDS          |        |          |                          | PRESIPITATION |           |
|-----------------|--------|----------|--------------------------|---------------|-----------|
| I N             | LOW    | MID-HIGH | BASE (M)                 | I SINCE 13LT  | I         |
| I 1/8           | /8     | CI       | 7000                     | I (MM)        | I         |
| I               |        |          |                          |               |           |
| I PRESSURE (MB) |        |          | I GEOSTROPHIC WIND (M/S) | I VISIBILITY  | I WEATHER |
| I QFE           | QFF    | I UG     | VG                       | UG-850-VG     | I (KM)    |
| I 1013.7        | 1022.5 | I 10.0   | -5.9                     | 11.2 -7.3     | I >20     |

----->>> 0100 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -103.0 ( .3) W/M\*\*2 -2.4 ( .4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.83 ( .09)    | I 3.17 (.000)    | I 5.6 ( .5)      | I 273.2 ( 5.6)       |
| I 8.50     | I 4.62 ( .17)    | I 3.16 (.000)    | I 5.0 ( .5)      | I                    |
| I 4.25     | I 4.34 ( .25)    | I 3.05 (.000)    | I 4.5 ( .5)      | I                    |
| I 2.13     | I 4.10 ( .28)    | I 3.16 (.001)    | I 3.8 ( .5)      | I                    |
| I 1.06     | I 3.83 ( .28)    | I 2.98 (.001)    | I 3.3 ( .5)      | I                    |
| I .00      | I 2.10           | I                |                  |                      |
| I -.02     | I 4.48           | I                |                  |                      |
| I -.05     | I 5.38           | I                |                  |                      |
| I -.10     | I 7.44           | I                |                  |                      |
| I -.23     | I 8.66           | I                |                  |                      |
| I -.51     | I 6.66           | I                |                  |                      |

----->>> 0130 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -103.0 ( .1) W/M\*\*2 -2.4 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.39 ( .12)    | I 3.15 (.001)    | I 6.4 ( .4)      | I 265.2 ( 3.3)       |
| I 8.50     | I 4.17 ( .13)    | I 3.15 (.001)    | I 5.6 ( .5)      | I                    |
| I 4.25     | I 3.89 ( .15)    | I 3.02 (.001)    | I 5.0 ( .5)      | I                    |
| I 2.13     | I 3.66 ( .15)    | I 3.15 (.001)    | I 4.3 ( .5)      | I                    |
| I 1.06     | I 3.43 ( .15)    | I 2.97 (.001)    | I 3.8 ( .5)      | I                    |
| I .00      | I 1.72           | I                |                  |                      |
| I -.02     | I 4.20           | I                |                  |                      |
| I -.05     | I 5.09           | I                |                  |                      |
| I -.10     | I 7.20           | I                |                  |                      |
| I -.23     | I 8.58           | I                |                  |                      |
| I -.51     | I 6.66           | I                |                  |                      |

&gt;&gt;&gt; 80-05-10 0200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS          |        |          |          |              |           |
|-----------------|--------|----------|----------|--------------|-----------|
| I N             | LOW    | MID-HIGH | BASE (M) | I            | I         |
| I 0/8           | /8     |          |          | I            | I         |
| I               |        |          |          |              |           |
| I PRESSURE (MB) |        |          | I        | I VISIBILITY | I WEATHER |
| I QFE           | QFF    | I        |          | I (KM)       | I         |
| I 1013.9        | 1022.7 | I        |          | I >20        | I         |

----->>> 0200 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -100.6 ( .5) W/M\*\*2 -2.9 ( .3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.48 ( .13)    | I 3.08 (.002)    | I 5.0 ( .5)      | I 277.8 ( 5.5)       |
| I 8.50     | I 4.20 ( .15)    | I 3.08 (.002)    | I 4.3 ( .5)      | I                    |
| I 4.25     | I 3.81 ( .16)    | I 2.98 (.001)    | I 3.9 ( .5)      | I                    |
| I 2.13     | I 3.47 ( .17)    | I 3.09 (.002)    | I 3.3 ( .4)      | I                    |
| I 1.06     | I 3.12 ( .17)    | I 2.90 (.001)    | I 2.8 ( .4)      | I                    |
| I .00      | I 1.11           | I                |                  |                      |
| I -.02     | I 3.89           | I                |                  |                      |
| I -.05     | I 4.80           | I                |                  |                      |
| I -.10     | I 6.96           | I                |                  |                      |
| I -.23     | I 8.48           | I                |                  |                      |
| I -.51     | I 6.64           | I                |                  |                      |

----->>> 0230 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -97.6 ( 1.2) W/M\*\*2 -2.1 ( .4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 3.94 ( .19)    | I 2.90 (.002)    | I 4.2 ( .3)      | I 265.7 ( 4.8)       |
| I 8.50     | I 3.32 ( .35)    | I 2.86 (.003)    | I 3.4 ( .3)      | I                    |
| I 4.25     | I 2.62 ( .52)    | I 2.69 (.002)    | I 2.9 ( .4)      | I                    |
| I 2.13     | I 2.06 ( .56)    | I 2.79 (.003)    | I 2.3 ( .4)      | I                    |
| I 1.06     | I 1.57 ( .56)    | I 2.54 (.002)    | I 1.9 ( .4)      | I                    |
| I .00      | I .34            | I                |                  |                      |
| I -.02     | I 3.56           | I                |                  |                      |
| I -.05     | I 4.49           | I                |                  |                      |
| I -.10     | I 6.72           | I                |                  |                      |
| I -.23     | I 8.42           | I                |                  |                      |
| I -.51     | I 6.66           | I                |                  |                      |

| CLOUDS  |               |        |          | I        |   | I          |   | I |         |
|---------|---------------|--------|----------|----------|---|------------|---|---|---------|
| I       | N             | LOW    | MID-HIGH | BASE (M) | I | I          | I | I | I       |
| I       | 0/8           | /8     |          |          | I | I          | I | I | I       |
| I-----I |               |        |          |          |   |            |   |   |         |
| I       | PRESSURE (MB) |        |          |          | I | VISIBILITY |   | I | WEATHER |
| I       | QFE           | QFF    | I        |          | I | (KM)       |   | I | I       |
| I       | 1014.2        | 1023.0 | I        |          | I | >20        |   | I | I       |

----->>> 0300 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -94.8 ( .2) W/M\*\*2 -3.1 ( .3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.02 ( .17)    | I 2.96 (.001)    | I 4.8 ( .5)      | I 275.5 ( 5.1) I     |
| I 8.50     | I 3.58 ( .27)    | I 2.97 (.001)    | I 4.0 ( .4)      | I I                  |
| I 4.25     | I 2.92 ( .38)    | I 2.87 (.001)    | I 3.5 ( .4)      | I I                  |
| I 2.13     | I 2.31 ( .40)    | I 2.95 (.001)    | I 2.8 ( .4)      | I I                  |
| I 1.06     | I 1.77 ( .42)    | I 2.73 (.001)    | I 2.4 ( .5)      | I I                  |
| I .00      | I -.20           | I                |                  |                      |
| I -.02     | I 3.14           | I                |                  |                      |
| I -.05     | I 4.14           | I                |                  |                      |
| I -.10     | I 6.48           | I                |                  |                      |
| I -.23     | I 8.33           | I                |                  |                      |
| I -.51     | I 6.66           | I                |                  |                      |

----->>> 0330 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -95.0 ( .5) W/M\*\*2 -.4 ( .9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 3.96 ( .08)    | I 2.96 (.000)    | I 5.5 ( .5)      | I 276.1 ( 4.2) I     |
| I 8.50     | I 3.68 ( .11)    | I 2.96 (.001)    | I 4.8 ( .4)      | I I                  |
| I 4.25     | I 3.22 ( .21)    | I 2.88 (.001)    | I 4.2 ( .4)      | I I                  |
| I 2.13     | I 2.80 ( .29)    | I 3.00 (.000)    | I 3.6 ( .4)      | I I                  |
| I 1.06     | I 2.40 ( .33)    | I 2.83 (.001)    | I 3.1 ( .4)      | I I                  |
| I .00      | I .26            | I                |                  |                      |
| I -.02     | I 2.99           | I                |                  |                      |
| I -.05     | I 3.90           | I                |                  |                      |
| I -.10     | I 6.25           | I                |                  |                      |
| I -.23     | I 8.25           | I                |                  |                      |
| I -.51     | I 6.68           | I                |                  |                      |

&gt;&gt;&gt; 80-05-10 0400 LT S Y N O P &lt;&lt;&lt;

| CLOUDS  |               |        |          | I        |   | I                      |   | I |         |
|---------|---------------|--------|----------|----------|---|------------------------|---|---|---------|
| I       | N             | LOW    | MID-HIGH | BASE (M) | I | I                      | I | I | I       |
| I       | 2/8           | /8     | CS       | 6000     | I | I                      | I | I | I       |
| I-----I |               |        |          |          |   |                        |   |   |         |
| I       | PRESSURE (MB) |        |          |          | I | GEOSTROPHIC WIND (M/S) |   | I | WEATHER |
| I       | QFE           | QFF    | I        | UG VG    | I | (KM)                   |   | I | I       |
| I       | 1014.8        | 1023.6 | I        | 8.7 -8.4 | I | >20                    |   | I | I       |

----->>> 0400 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -89.5 ( 2.6) W/M\*\*2 14.6 ( 6.3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 3.72 ( .13)    | I 2.95 (.001)    | I 5.7 ( .4)      | I 273.8 ( 3.6) I     |
| I 8.50     | I 3.42 ( .23)    | I 2.93 (.001)    | I 5.0 ( .4)      | I I                  |
| I 4.25     | I 3.03 ( .34)    | I 2.82 (.001)    | I 4.3 ( .5)      | I I                  |
| I 2.13     | I 2.73 ( .37)    | I 2.93 (.001)    | I 3.7 ( .5)      | I I                  |
| I 1.06     | I 2.43 ( .36)    | I 2.78 (.001)    | I 3.2 ( .5)      | I I                  |
| I .00      | I .60            | I                |                  |                      |
| I -.02     | I 2.94           | I                |                  |                      |
| I -.05     | I 3.74           | I                |                  |                      |
| I -.10     | I 6.01           | I                |                  |                      |
| I -.23     | I 8.16           | I                |                  |                      |
| I -.51     | I 6.68           | I                |                  |                      |

----->>> 0430 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -67.2 ( 6.3) W/M\*\*2 52.5 ( 8.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 3.50 ( .06)    | I 2.99 (.001)    | I 5.4 ( .4)      | I 271.3 ( 3.6) I     |
| I 8.50     | I 3.26 ( .08)    | I 2.99 (.001)    | I 4.7 ( .4)      | I I                  |
| I 4.25     | I 2.97 ( .11)    | I 2.90 (.001)    | I 4.1 ( .3)      | I I                  |
| I 2.13     | I 2.79 ( .15)    | I 3.02 (.000)    | I 3.5 ( .4)      | I I                  |
| I 1.06     | I 2.60 ( .17)    | I 2.89 (.001)    | I 3.0 ( .4)      | I I                  |
| I .00      | I 1.08           | I                |                  |                      |
| I -.02     | I 2.89           | I                |                  |                      |
| I -.05     | I 3.66           | I                |                  |                      |
| I -.10     | I 5.83           | I                |                  |                      |
| I -.23     | I 8.10           | I                |                  |                      |
| I -.51     | I 6.71           | I                |                  |                      |

| CLOUDS            |     |     |          | BASE (M) |      | VISIBILITY   |   | WEATHER |   |
|-------------------|-----|-----|----------|----------|------|--------------|---|---------|---|
| I                 | N   | LOW | MID-HIGH | I        | I    | I            | I | I       | I |
| I                 | 2/8 | /8  | CS       | I        | 6000 | I            |   | I       |   |
| I PRESSURE (MB)   |     |     |          |          | I    | I VISIBILITY |   | I       | I |
| I QFE QFF I       |     |     |          |          | I    | I (KM)       |   | I       | I |
| I 1015.6 1024.4 I |     |     |          |          | I    | I >20        |   | I       | I |

>>> 0500 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -26.3 ( 10.7) W/M\*\*2 102.9 ( 12.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 3.53 ( .06)    | I 2.99 (.000)    | I 4.7 ( .4)      | I 265.0 ( 5.3)       |
| I 8.50     | I 3.52 ( .07)    | I 3.01 (.000)    | I 4.2 ( .4)      | I                    |
| I 4.25     | I 3.45 ( .11)    | I 2.94 (.000)    | I 3.9 ( .5)      | I                    |
| I 2.13     | I 3.41 ( .13)    | I 3.07 (.001)    | I 3.5 ( .5)      | I                    |
| I 1.06     | I 3.36 ( .16)    | I 2.97 (.001)    | I 3.1 ( .5)      | I                    |
| I .00      | I 2.64           | I                |                  |                      |
| I -.02     | I 3.04           | I                |                  |                      |
| I -.05     | I 3.69           | I                |                  |                      |
| I -.10     | I 5.65           | I                |                  |                      |
| I -.23     | I 8.00           | I                |                  |                      |
| I -.51     | I 6.69           | I                |                  |                      |

>>> 0530 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 33.8 ( 12.5) W/M\*\*2 172.1 ( 14.0) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.19 ( .24)    | I 2.97 (.002)    | I 5.9 ( .8)      | I 267.8 ( 6.8)       |
| I 8.50     | I 4.30 ( .26)    | I 2.99 (.002)    | I 5.5 ( .8)      | I                    |
| I 4.25     | I 4.34 ( .26)    | I 2.94 (.002)    | I 5.2 ( .7)      | I                    |
| I 2.13     | I 4.42 ( .27)    | I 3.08 (.002)    | I 4.7 ( .7)      | I                    |
| I 1.06     | I 4.47 ( .29)    | I 3.01 (.002)    | I 4.3 ( .7)      | I                    |
| I .00      | I 4.65           | I                |                  |                      |
| I -.02     | I 3.42           | I                |                  |                      |
| I -.05     | I 4.14           | I                |                  |                      |
| I -.10     | I 5.54           | I                |                  |                      |
| I -.23     | I 7.88           | I                |                  |                      |
| I -.51     | I 6.67           | I                |                  |                      |

&gt;&gt;&gt; 80-05-10 0600 LT S Y N O P &lt;&lt;&lt;

| CLOUDS            |     |     |          | BASE (M) |      | SOILWATER    |            | CONTENT |   |
|-------------------|-----|-----|----------|----------|------|--------------|------------|---------|---|
| I                 | N   | LOW | MID-HIGH | I        | I    | I            | I          | I       | I |
| I                 | 2/8 | /8  | CS       | I        | 6000 | I            | 60.14 (MM) | I       |   |
| I PRESSURE (MB)   |     |     |          |          | I    | I VISIBILITY |            | I       | I |
| I QFE QFF I       |     |     |          |          | I    | I (KM)       |            | I       | I |
| I 1016.1 1024.9 I |     |     |          |          | I    | I >20        |            | I       | I |

>>> 0600 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 97.8 ( 12.7) W/M\*\*2 244.4 ( 14.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.84 ( .05)    | I 2.84 (.001)    | I 6.9 ( .8)      | I 283.2 ( 6.3)       |
| I 8.50     | I 5.01 ( .07)    | I 2.82 (.001)    | I 6.4 ( .8)      | I                    |
| I 4.25     | I 5.10 ( .09)    | I 2.77 (.001)    | I 6.2 ( .8)      | I                    |
| I 2.13     | I 5.25 ( .10)    | I 2.94 (.001)    | I 5.6 ( .8)      | I                    |
| I 1.06     | I 5.40 ( .11)    | I 2.89 (.001)    | I 5.1 ( .8)      | I                    |
| I .00      | I 6.54           | I                |                  |                      |
| I -.02     | I 4.01           | I                |                  |                      |
| I -.05     | I 4.86           | I                |                  |                      |
| I -.10     | I 5.58           | I                |                  |                      |
| I -.23     | I 7.78           | I                |                  |                      |
| I -.51     | I 6.68           | I                |                  |                      |

>>> 0630 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 164.8 ( 13.1) W/M\*\*2 317.9 ( 14.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.33 ( .12)    | I 2.74 (.002)    | I 7.3 ( .9)      | I 293.8 ( 7.3)       |
| I 8.50     | I 5.54 ( .13)    | I 2.71 (.002)    | I 6.6 ( .9)      | I                    |
| I 4.25     | I 5.67 ( .16)    | I 2.66 (.002)    | I 6.3 ( .9)      | I                    |
| I 2.13     | I 5.88 ( .17)    | I 2.85 (.002)    | I 5.7 ( .9)      | I                    |
| I 1.06     | I 6.10 ( .19)    | I 2.80 (.002)    | I 5.1 ( .8)      | I                    |
| I .00      | I 8.50           | I                |                  |                      |
| I -.02     | I 4.71           | I                |                  |                      |
| I -.05     | I 5.66           | I                |                  |                      |
| I -.10     | I 5.70           | I                |                  |                      |
| I -.23     | I 7.68           | I                |                  |                      |
| I -.51     | I 6.66           | I                |                  |                      |

| CLOUDS        |        |                        |          | PRESIPITATION |            |         |   |
|---------------|--------|------------------------|----------|---------------|------------|---------|---|
| I N           | LOW    | MID-HIGH               | BASE (M) | I             | SINCE 19LT | I       | I |
| I 2/8         | /8     | CS                     | 6000     | I             | (MM)       | I       | I |
| -----         |        |                        |          |               |            |         |   |
| PRESSURE (MB) |        | GEOSTROPHIC WIND (M/S) |          | VISIBILITY    |            | WEATHER |   |
| I QFE         | QFF    | I UG                   | VG       | I             | (KM)       | I       | I |
| I 1016.3      | 1025.0 | I 8.9                  | -8.1     | I             | >30        | I       | I |

## &gt;&gt;&gt; 0700 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
229.7 ( 11.7) W/M\*\*2 388.2 ( 13.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.76 ( .17)    | I 2.56 (.002)    | I 7.5 (1.1)      | I 291.9 ( 7.2)       |
| I 8.50     | I 6.02 ( .19)    | I 2.53 (.002)    | I 7.0 (1.1)      | I                    |
| I 4.25     | I 6.23 ( .20)    | I 2.50 (.002)    | I 6.6 (1.0)      | I                    |
| I 2.13     | I 6.52 ( .20)    | I 2.69 (.002)    | I 5.9 (1.0)      | I                    |
| I 1.06     | I 6.84 ( .21)    | I 2.65 (.002)    | I 5.4 (1.0)      | I                    |
| I .00      | I 10.34          | I                |                  |                      |
| I -.02     | I 5.56           | I                |                  |                      |
| I -.05     | I 6.59           | I                |                  |                      |
| I -.10     | I 5.94           | I                |                  |                      |
| I -.23     | I 7.59           | I                |                  |                      |
| I -.51     | I 6.66           | I                |                  |                      |

## &gt;&gt;&gt; 0730 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
293.6 ( 11.5) W/M\*\*2 459.8 ( 13.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.07 ( .13)    | I 2.50 (.002)    | I 7.6 (1.1)      | I 287.6 ( 8.4)       |
| I 8.50     | I 6.38 ( .15)    | I 2.47 (.002)    | I 7.0 (1.0)      | I                    |
| I 4.25     | I 6.61 ( .18)    | I 2.44 (.002)    | I 6.7 (1.0)      | I                    |
| I 2.13     | I 6.97 ( .19)    | I 2.63 (.002)    | I 6.1 (1.0)      | I                    |
| I 1.06     | I 7.40 ( .20)    | I 2.61 (.002)    | I 5.5 (1.0)      | I                    |
| I .00      | I 12.93          | I                |                  |                      |
| I -.02     | I 6.50           | I                |                  |                      |
| I -.05     | I 7.53           | I                |                  |                      |
| I -.10     | I 6.26           | I                |                  |                      |
| I -.23     | I 7.49           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

## &gt;&gt;&gt; 80-05-10 0800 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |        |                        |          | PRESIPITATION |            |         |   |
|---------------|--------|------------------------|----------|---------------|------------|---------|---|
| I N           | LOW    | MID-HIGH               | BASE (M) | I             | SINCE 19LT | I       | I |
| I 2/8         | /8     | CS                     | 6000     | I             | (MM)       | I       | I |
| -----         |        |                        |          |               |            |         |   |
| PRESSURE (MB) |        | GEOSTROPHIC WIND (M/S) |          | VISIBILITY    |            | WEATHER |   |
| I QFE         | QFF    | I UG                   | VG       | I             | (KM)       | I       | I |
| I 1016.4      | 1025.1 | I                      |          | I             | >30        | I       | I |

## &gt;&gt;&gt; 0800 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
354.5 ( 10.6) W/M\*\*2 529.0 ( 12.4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.50 ( .20)    | I 2.43 (.001)    | I 7.7 (1.1)      | I 289.1 ( 9.9)       |
| I 8.50     | I 6.86 ( .24)    | I 2.39 (.002)    | I 7.2 (1.2)      | I                    |
| I 4.25     | I 7.13 ( .24)    | I 2.36 (.002)    | I 6.9 (1.1)      | I                    |
| I 2.13     | I 7.55 ( .25)    | I 2.55 (.002)    | I 6.3 (1.0)      | I                    |
| I 1.06     | I 8.04 ( .27)    | I 2.54 (.002)    | I 5.7 (1.0)      | I                    |
| I .00      | I 14.45          | I                |                  |                      |
| I -.02     | I 7.47           | I                |                  |                      |
| I -.05     | I 8.58           | I                |                  |                      |
| I -.10     | I 6.67           | I                |                  |                      |
| I -.23     | I 7.40           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

## &gt;&gt;&gt; 0830 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
410.4 ( 11.7) W/M\*\*2 591.1 ( 11.8) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.96 ( .22)    | I 2.30 (.002)    | I 8.0 (1.1)      | I 287.9 ( 7.9)       |
| I 8.50     | I 7.30 ( .22)    | I 2.26 (.002)    | I 7.7 (1.1)      | I                    |
| I 4.25     | I 7.60 ( .23)    | I 2.24 (.002)    | I 7.4 (1.1)      | I                    |
| I 2.13     | I 8.07 ( .21)    | I 2.43 (.002)    | I 6.7 (1.0)      | I                    |
| I 1.06     | I 8.65 ( .21)    | I 2.43 (.002)    | I 6.0 (1.1)      | I                    |
| I .00      | I 16.16          | I                |                  |                      |
| I -.02     | I 8.59           | I                |                  |                      |
| I -.05     | I 9.74           | I                |                  |                      |
| I -.10     | I 7.15           | I                |                  |                      |
| I -.23     | I 7.35           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

| CLOUDS            |     |     |          |                |   |             |   |
|-------------------|-----|-----|----------|----------------|---|-------------|---|
| I                 | N   | LOW | MID-HIGH | BASE (M)       | I | I           | I |
| I                 | 2/8 | /8  | CI       | 6000           | I | I           | I |
| -----             |     |     |          |                |   |             |   |
| I PRESSURE (MB) I |     |     |          | I VISIBILITY I |   | I WEATHER I |   |
| I QFE QFF I       |     |     |          | I (KM) I       |   | I I         |   |
| I 1016.8 1025.5 I |     |     |          | I >30 I        |   | I I         |   |

## &gt;&gt;&gt; 0900 LT P R O F I L E S &lt;&lt;&lt;-----

| NET RADIATION       | GLOBAL RADIATION     |
|---------------------|----------------------|
| 459.3 ( 9.3) W/M**2 | 645.6 ( 11.1) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.53 (.26)     | I 2.22 (.002)    | I 8.0 (1.3)      | I 283.6 ( 12.5)      |
| I 8.50     | I 7.90 (.29)     | I 2.17 (.002)    | I 7.4 (1.2)      | I I                  |
| I 4.25     | I 8.29 (.34)     | I 2.17 (.003)    | I 7.2 (1.2)      | I I                  |
| I 2.13     | I 8.78 (.33)     | I 2.35 (.003)    | I 6.6 (1.2)      | I I                  |
| I 1.06     | I 9.42 (.33)     | I 2.35 (.003)    | I 5.9 (1.2)      | I I                  |
| I .00      | I 18.29          | I                |                  |                      |
| I -.02     | I 9.71           | I                |                  |                      |
| I -.05     | I 10.75          | I                |                  |                      |
| I -.10     | I 7.68           | I                |                  |                      |
| I -.23     | I 7.30           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

## &gt;&gt;&gt; 0930 LT P R O F I L E S &lt;&lt;&lt;-----

| NET RADIATION       | GLOBAL RADIATION     |
|---------------------|----------------------|
| 505.5 ( 8.8) W/M**2 | 698.8 ( 10.2) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.68 (.21)     | I 2.06 (.002)    | I 8.8 (1.1)      | I 283.3 ( 8.7)       |
| I 8.50     | I 8.04 (.24)     | I 2.01 (.003)    | I 8.3 (1.1)      | I I                  |
| I 4.25     | I 8.43 (.26)     | I 2.01 (.002)    | I 7.8 (1.1)      | I I                  |
| I 2.13     | I 8.95 (.23)     | I 2.17 (.003)    | I 7.2 (1.1)      | I I                  |
| I 1.06     | I 9.63 (.23)     | I 2.17 (.002)    | I 6.6 (1.2)      | I I                  |
| I .00      | I 19.47          | I                |                  |                      |
| I -.02     | I 10.84          | I                |                  |                      |
| I -.05     | I 11.83          | I                |                  |                      |
| I -.10     | I 8.25           | I                |                  |                      |
| I -.23     | I 7.28           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

## &gt;&gt;&gt; 80-05-10 1000 LT S Y N O P &lt;&lt;&lt;

| CLOUDS            |     |        |          |                            |   |                |   |
|-------------------|-----|--------|----------|----------------------------|---|----------------|---|
| I                 | N   | LOW    | MID-HIGH | BASE (M)                   | I | I              | I |
| I                 | 1/8 | 1/8 CU | CI       | 2000                       | I | I              | I |
| -----             |     |        |          |                            |   |                |   |
| I PRESSURE (MB) I |     |        |          | I GEOSTROPHIC WIND (M/S) I |   | I VISIBILITY I |   |
| I QFE QFF I       |     |        |          | I UG VG I                  |   | I (KM) I       |   |
| I 1017.2 1025.9 I |     |        |          | I 7.6 -8.0 I               |   | I >30 I        |   |

## &gt;&gt;&gt; 1000 LT P R O F I L E S &lt;&lt;&lt;-----

| NET RADIATION       | GLOBAL RADIATION    |
|---------------------|---------------------|
| 539.6 ( 3.7) W/M**2 | 738.2 ( 5.9) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 8.10 (.32)     | I 2.00 (.002)    | I 9.0 (1.2)      | I 279.7 ( 9.5)       |
| I 8.50     | I 8.47 (.32)     | I 1.95 (.002)    | I 8.5 (1.2)      | I I                  |
| I 4.25     | I 8.87 (.34)     | I 1.96 (.002)    | I 8.2 (1.2)      | I I                  |
| I 2.13     | I 9.42 (.35)     | I 2.11 (.002)    | I 7.6 (1.1)      | I I                  |
| I 1.06     | I 10.13 (.37)    | I 2.11 (.002)    | I 6.8 (1.1)      | I I                  |
| I .00      | I 20.29          | I                |                  |                      |
| I -.02     | I 11.66          | I                |                  |                      |
| I -.05     | I 12.64          | I                |                  |                      |
| I -.10     | I 8.83           | I                |                  |                      |
| I -.23     | I 7.25           | I                |                  |                      |
| I -.51     | I 6.61           | I                |                  |                      |

## &gt;&gt;&gt; 1030 LT P R O F I L E S &lt;&lt;&lt;-----

| NET RADIATION       | GLOBAL RADIATION    |
|---------------------|---------------------|
| 565.1 ( 4.9) W/M**2 | 769.4 ( 5.4) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 8.10 (.18)     | I 2.03 (.002)    | I 9.3 (1.3)      | I 278.5 ( 10.5)      |
| I 8.50     | I 8.45 (.21)     | I 1.98 (.002)    | I 8.8 (1.4)      | I I                  |
| I 4.25     | I 8.85 (.26)     | I 1.98 (.002)    | I 8.5 (1.4)      | I I                  |
| I 2.13     | I 9.46 (.26)     | I 2.13 (.002)    | I 7.8 (1.4)      | I I                  |
| I 1.06     | I 10.25 (.26)    | I 2.13 (.002)    | I 7.0 (1.3)      | I I                  |
| I .00      | I 20.96          | I                |                  |                      |
| I -.02     | I 12.61          | I                |                  |                      |
| I -.05     | I 13.52          | I                |                  |                      |
| I -.10     | I 9.43           | I                |                  |                      |
| I -.23     | I 7.28           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

| CLOUDS            |     |        |          | BASE (M) |                | VISIBILITY |   | WEATHER |   |
|-------------------|-----|--------|----------|----------|----------------|------------|---|---------|---|
| I                 | N   | LOW    | MID-HIGH | I        | I              | I          | I | I       | I |
| I                 | 1/8 | 1/8 CU | CI       | 2000     | I              | I          | I | I       | I |
| I PRESSURE (MB) I |     |        |          |          | I VISIBILITY I |            |   |         |   |
| I QFE QFF I       |     |        |          |          | I (KM) I       |            |   |         |   |
| I 1017.2 1025.9 I |     |        |          |          | I >30 I        |            |   |         |   |

1100 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 583.2 ( 4.4) W/M\*\*2 792.4 ( 4.5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 8.52 ( .22)    | I 2.12 (.002)    | I 9.5 (1.2)      | I 271.6 ( 8.2) I     |
| I 8.50     | I 8.93 ( .27)    | I 2.07 (.002)    | I 9.0 (1.2)      | I I                  |
| I 4.25     | I 9.37 ( .30)    | I 2.07 (.002)    | I 8.6 (1.2)      | I I                  |
| I 2.13     | I 10.01 ( .28)   | I 2.21 (.002)    | I 7.9 (1.3)      | I I                  |
| I 1.06     | I 10.85 ( .27)   | I 2.21 (.002)    | I 7.2 (1.2)      | I I                  |
| I .00      | I 23.00          | I                |                  |                      |
| I -.02     | I 13.71          | I                |                  |                      |
| I -.05     | I 14.51          | I                |                  |                      |
| I -.10     | I 10.01          | I                |                  |                      |
| I -.23     | I 7.31           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

1130 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 595.2 ( .9) W/M\*\*2 806.5 ( 1.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 8.85 ( .29)    | I 2.07 (.002)    | I 9.7 (1.4)      | I 274.6 ( 8.0) I     |
| I 8.50     | I 9.27 ( .33)    | I 2.02 (.002)    | I 9.2 (1.4)      | I I                  |
| I 4.25     | I 9.70 ( .36)    | I 2.02 (.002)    | I 8.8 (1.4)      | I I                  |
| I 2.13     | I 10.37 ( .35)   | I 2.17 (.002)    | I 8.1 (1.4)      | I I                  |
| I 1.06     | I 11.25 ( .33)   | I 2.16 (.002)    | I 7.2 (1.3)      | I I                  |
| I .00      | I 23.02          | I                |                  |                      |
| I -.02     | I 14.51          | I                |                  |                      |
| I -.05     | I 15.28          | I                |                  |                      |
| I -.10     | I 10.61          | I                |                  |                      |
| I -.23     | I 7.37           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

&gt;&gt;&gt; 80-05-10 1200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS            |     |        |          | BASE (M) |                | VISIBILITY |   | WEATHER |   |
|-------------------|-----|--------|----------|----------|----------------|------------|---|---------|---|
| I                 | N   | LOW    | MID-HIGH | I        | I              | I          | I | I       | I |
| I                 | 1/8 | 1/8 CU | CI       | 2000     | I              | I          | I | I       | I |
| I PRESSURE (MB) I |     |        |          |          | I VISIBILITY I |            |   |         |   |
| I QFE QFF I       |     |        |          |          | I (KM) I       |            |   |         |   |
| I 1017.6 1026.2 I |     |        |          |          | I >30 I        |            |   |         |   |

1200 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 598.8 ( .7) W/M\*\*2 812.4 ( .7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 9.11 ( .17)    | I 2.03 (.001)    | I 9.8 (1.2)      | I 276.8 ( 6.8) I     |
| I 8.50     | I 9.53 ( .21)    | I 1.98 (.002)    | I 9.3 (1.2)      | I I                  |
| I 4.25     | I 9.98 ( .25)    | I 1.99 (.001)    | I 9.0 (1.3)      | I I                  |
| I 2.13     | I 10.63 ( .26)   | I 2.13 (.002)    | I 8.2 (1.2)      | I I                  |
| I 1.06     | I 11.48 ( .24)   | I 2.12 (.002)    | I 7.6 (1.2)      | I I                  |
| I .00      | I 23.12          | I                |                  |                      |
| I -.02     | I 15.07          | I                |                  |                      |
| I -.05     | I 15.87          | I                |                  |                      |
| I -.10     | I 11.17          | I                |                  |                      |
| I -.23     | I 7.43           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

1230 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 591.7 ( 3.1) W/M\*\*2 803.4 ( 2.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 9.59 ( .35)    | I 1.94 (.003)    | I 9.9 (1.4)      | I 273.9 ( 10.7) I    |
| I 8.50     | I 10.02 ( .37)   | I 1.89 (.003)    | I 9.5 (1.4)      | I I                  |
| I 4.25     | I 10.46 ( .38)   | I 1.92 (.003)    | I 9.0 (1.5)      | I I                  |
| I 2.13     | I 11.09 ( .33)   | I 2.04 (.003)    | I 8.4 (1.5)      | I I                  |
| I 1.06     | I 11.92 ( .33)   | I 2.02 (.003)    | I 7.6 (1.4)      | I I                  |
| I .00      | I 22.58          | I                |                  |                      |
| I -.02     | I 15.61          | I                |                  |                      |
| I -.05     | I 16.30          | I                |                  |                      |
| I -.10     | I 11.67          | I                |                  |                      |
| I -.23     | I 7.52           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

| CLOUDS                                                            |        |          |          | PRESIPITATION |          |
|-------------------------------------------------------------------|--------|----------|----------|---------------|----------|
| I N                                                               | LOW    | MID-HIGH | BASE (M) | I SINCE 01LT  | I        |
| I 1/8                                                             | 1/8 CU |          | 2300     | I             | (MM) I   |
| I PRESSURE (MB) I GEOSTROPHIC WIND (M/S) I VISIBILITY I WEATHER I |        |          |          |               |          |
| I QFE                                                             | QFF    | I UG     | VG       | UG-850-VG     | I (KM) I |
| I 1017.6                                                          | 1026.2 | I 6.6    | -7.6     | 7.9 -8.1      | I >30 I  |

## &gt;&gt;&gt; 1300 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
577.9 ( 3.7) W/M\*\*2 785.9 ( 4.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 9.68 ( .29)    | I 1.86 (.001)    | I 10.8 (1.5)     | I 274.8 ( 9.4) I     |
| I 8.50     | I 10.11 ( .31)   | I 1.81 (.001)    | I 10.0 (1.6)     | I                    |
| I 4.25     | I 10.61 ( .33)   | I 1.84 (.001)    | I 9.4 (1.6)      | I                    |
| I 2.13     | I 11.28 ( .36)   | I 1.96 (.002)    | I 8.7 (1.5)      | I                    |
| I 1.06     | I 12.11 ( .32)   | I 1.94 (.001)    | I 7.8 (1.4)      | I                    |
| I .00      | I 23.36          | I                |                  |                      |
| I -.02     | I 16.13          | I                |                  |                      |
| I -.05     | I 16.57          | I                |                  |                      |
| I -.10     | I 12.12          | I                |                  |                      |
| I -.23     | I 7.59           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

## &gt;&gt;&gt; 1330 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
554.8 ( 5.4) W/M\*\*2 761.5 ( 6.0) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 9.81 ( .38)    | I 1.87 (.001)    | I 10.7 (1.5)     | I 277.3 ( 13.6) I    |
| I 8.50     | I 10.23 ( .33)   | I 1.82 (.001)    | I 10.1 (1.6)     | I                    |
| I 4.25     | I 10.65 ( .36)   | I 1.85 (.001)    | I 9.7 (1.6)      | I                    |
| I 2.13     | I 11.25 ( .37)   | I 1.98 (.002)    | I 8.8 (1.6)      | I                    |
| I 1.06     | I 11.99 ( .35)   | I 1.95 (.002)    | I 8.0 (1.6)      | I                    |
| I .00      | I 21.65          | I                |                  |                      |
| I -.02     | I 16.18          | I                |                  |                      |
| I -.05     | I 16.68          | I                |                  |                      |
| I -.10     | I 12.50          | I                |                  |                      |
| I -.23     | I 7.69           | I                |                  |                      |
| I -.51     | I 6.61           | I                |                  |                      |

## &gt;&gt;&gt; 80-05-10 1400 LT S Y N O P &lt;&lt;&lt;

| CLOUDS                                   |        |          |          | PRESIPITATION |        |
|------------------------------------------|--------|----------|----------|---------------|--------|
| I N                                      | LOW    | MID-HIGH | BASE (M) | I SINCE 01LT  | I      |
| I 1/8                                    | 1/8 CU |          | 2300     | I             | (MM) I |
| I PRESSURE (MB) I VISIBILITY I WEATHER I |        |          |          |               |        |
| I QFE                                    | QFF    | I        |          | I (KM)        | I      |
| I 1017.6                                 | 1026.2 | I        |          | I >35         | I      |

## &gt;&gt;&gt; 1400 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
520.6 ( 7.7) W/M\*\*2 724.3 ( 7.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 10.14 ( .32)   | I 1.97 (.002)    | I 9.3 (1.4)      | I 289.1 ( 12.0) I    |
| I 8.50     | I 10.54 ( .35)   | I 1.93 (.002)    | I 8.8 (1.4)      | I                    |
| I 4.25     | I 10.99 ( .36)   | I 1.98 (.002)    | I 8.3 (1.4)      | I                    |
| I 2.13     | I 11.54 ( .40)   | I 2.09 (.002)    | I 7.5 (1.3)      | I                    |
| I 1.06     | I 12.26 ( .31)   | I 2.05 (.002)    | I 6.8 (1.2)      | I                    |
| I .00      | I 21.42          | I                |                  |                      |
| I -.02     | I 16.51          | I                |                  |                      |
| I -.05     | I 16.72          | I                |                  |                      |
| I -.10     | I 12.82          | I                |                  |                      |
| I -.23     | I 7.82           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

## &gt;&gt;&gt; 1430 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
480.2 ( 8.5) W/M\*\*2 682.0 ( 8.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 10.40 ( .25)   | I 2.01 (.003)    | I 9.7 (1.7)      | I 281.7 ( 10.2) I    |
| I 8.50     | I 10.75 ( .26)   | I 1.97 (.003)    | I 9.2 (1.8)      | I                    |
| I 4.25     | I 11.13 ( .27)   | I 1.99 (.002)    | I 8.9 (1.8)      | I                    |
| I 2.13     | I 11.69 ( .30)   | I 2.12 (.003)    | I 8.1 (1.7)      | I                    |
| I 1.06     | I 12.40 ( .32)   | I 2.09 (.002)    | I 7.2 (1.6)      | I                    |
| I .00      | I 21.04          | I                |                  |                      |
| I -.02     | I 16.44          | I                |                  |                      |
| I -.05     | I 16.64          | I                |                  |                      |
| I -.10     | I 13.02          | I                |                  |                      |
| I -.23     | I 7.92           | I                |                  |                      |
| I -.51     | I 6.59           | I                |                  |                      |

&gt;&gt;&gt; 80-05-10 1500 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS |               |        |          |          |            |           |
|--------|---------------|--------|----------|----------|------------|-----------|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I          | I         |
| I      | 1/8           | 1/8 CU |          | 2400     | I          | I         |
| -----  |               |        |          |          |            |           |
| I      | PRESSURE (MB) |        |          | I        | VISIBILITY | I WEATHER |
| I      | QFE           | QFF    | I        | I        | (KM)       | I         |
| I      | 1017.4        | 1026.0 | I        | I        | >35        | I         |

----->>> 1500 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 431.8 ( 12.0) W/M\*\*2 629.7 ( 12.8) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 10.74 ( .19)   | I 1.82 (.003)    | I 9.9 (1.5)      | I 301.2 ( 15.0)      |
| I 8.50     | I 11.06 ( .21)   | I 1.77 (.003)    | I 9.3 (1.6)      | I                    |
| I 4.25     | I 11.43 ( .25)   | I 1.80 (.003)    | I 8.8 (1.7)      | I                    |
| I 2.13     | I 11.97 ( .24)   | I 1.92 (.003)    | I 7.9 (1.5)      | I                    |
| I 1.06     | I 12.56 ( .24)   | I 1.90 (.003)    | I 7.0 (1.5)      | I                    |
| I .00      | I 18.23          | I                |                  |                      |
| I -.02     | I 15.43          | I                |                  |                      |
| I -.05     | I 16.07          | I                |                  |                      |
| I -.10     | I 13.20          | I                |                  |                      |
| I -.23     | I 8.05           | I                |                  |                      |
| I -.51     | I 6.59           | I                |                  |                      |

----->>> 1530 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 376.8 ( 11.6) W/M\*\*2 571.8 ( 13.4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 11.06 ( .25)   | I 1.62 (.003)    | I 9.6 (1.5)      | I 305.1 ( 10.9)      |
| I 8.50     | I 11.36 ( .25)   | I 1.56 (.003)    | I 9.0 (1.5)      | I                    |
| I 4.25     | I 11.70 ( .28)   | I 1.61 (.002)    | I 8.6 (1.5)      | I                    |
| I 2.13     | I 12.20 ( .26)   | I 1.71 (.003)    | I 7.8 (1.4)      | I                    |
| I 1.06     | I 12.75 ( .23)   | I 1.70 (.003)    | I 6.8 (1.4)      | I                    |
| I .00      | I 18.10          | I                |                  |                      |
| I -.02     | I 15.28          | I                |                  |                      |
| I -.05     | I 15.40          | I                |                  |                      |
| I -.10     | I 13.25          | I                |                  |                      |
| I -.23     | I 8.21           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

&gt;&gt;&gt; 80-05-10 1600 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |               |        |            |          |            |           |
|--------|---------------|--------|------------|----------|------------|-----------|
| I      | N             | LOW    | MID-HIGH   | BASE (M) | I          | I         |
| I      | 1/8           | 1/8 CU | CT         | 2400     | I          | I         |
| -----  |               |        |            |          |            |           |
| I      | PRESSURE (MB) |        |            | I        | VISIBILITY | I WEATHER |
| I      | QFE           | QFF    | I UG VG    | I        | (KM)       | I         |
| I      | 1017.5        | 1026.1 | I 4.7 -7.5 | I        | >35        | I         |

----->>> 1600 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 317.8 ( 13.3) W/M\*\*2 503.0 ( 14.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 10.99 ( .21)   | I 1.68 (.002)    | I 9.6 (1.6)      | I 299.8 ( 7.8)       |
| I 8.50     | I 11.27 ( .23)   | I 1.63 (.002)    | I 9.0 (1.7)      | I                    |
| I 4.25     | I 11.57 ( .24)   | I 1.67 (.002)    | I 8.7 (1.6)      | I                    |
| I 2.13     | I 11.98 ( .22)   | I 1.75 (.002)    | I 7.9 (1.5)      | I                    |
| I 1.06     | I 12.49 ( .20)   | I 1.74 (.002)    | I 7.0 (1.4)      | I                    |
| I .00      | I 16.80          | I                |                  |                      |
| I -.02     | I 14.89          | I                |                  |                      |
| I -.05     | I 15.09          | I                |                  |                      |
| I -.10     | I 13.13          | I                |                  |                      |
| I -.23     | I 8.32           | I                |                  |                      |
| I -.51     | I 6.59           | I                |                  |                      |

Data missing due to power failure.

| CLOUDS        |        |        |          | BASE (M)   |     | SOILWATER |            |
|---------------|--------|--------|----------|------------|-----|-----------|------------|
| I             | N      | LOW    | MID-HIGH | I          | I   | I         | CONTENT    |
| I             | 1/8    | 1/8 CU | CI       | I          | I   | I         | 59.59 (MM) |
| I             |        |        |          | I          |     | I         |            |
| PRESSURE (MB) |        |        |          | VISIBILITY |     | WEATHER   |            |
| QFE QFF       |        |        |          | (KM)       |     |           |            |
| I             | 1017.6 | 1026.2 | I        | I          | >35 | I         | I          |

Data missing due to power failure.

>>> 1730 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 120.4 ( 12.1) W/M\*\*2 287.7 ( 13.0) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 11.37 ( .45)   | I 1.80 (.002)    | I 7.8 (1.3)      | I 299.6 ( 10.1)      |
| I 8.50     | I 11.59 ( .48)   | I 1.75 (.002)    | I 7.2 (1.2)      | I                    |
| I 4.25     | I 11.75 ( .47)   | I 1.78 (.002)    | I 6.8 (1.4)      | I                    |
| I 2.13     | I 11.98 ( .43)   | I 1.87 (.002)    | I 6.1 (1.2)      | I                    |
| I 1.06     | I 12.21 ( .45)   | I 1.81 (.002)    | I 5.5 (1.1)      | I                    |
| I .00      | I 14.60          | I                |                  |                      |
| I -.02     | I 13.67          | I                |                  |                      |
| I -.05     | I 13.68          | I                |                  |                      |
| I -.10     | I 12.80          | I                |                  |                      |
| I -.23     | I 8.75           | I                |                  |                      |
| I -.51     | I 6.68           | I                |                  |                      |

&gt;&gt;&gt; 80-05-10 1800 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |        |        |          | BASE (M)   |     |         |   |
|---------------|--------|--------|----------|------------|-----|---------|---|
| I             | N      | LOW    | MID-HIGH | I          | I   | I       |   |
| I             | 1/8    | 1/8 CU | CI       | I          | I   | I       |   |
| I             |        |        |          | I          |     | I       |   |
| PRESSURE (MB) |        |        |          | VISIBILITY |     | WEATHER |   |
| QFE QFF       |        |        |          | (KM)       |     |         |   |
| I             | 1017.5 | 1026.1 | I        | I          | >30 | I       | I |

>>> 1800 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 56.6 ( 12.5) W/M\*\*2 215.0 ( 14.0) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 11.48 ( .06)   | I 1.81 (.001)    | I 7.5 (1.2)      | I 300.2 ( 10.3)      |
| I 8.50     | I 11.64 ( .06)   | I 1.76 (.001)    | I 7.0 (1.3)      | I                    |
| I 4.25     | I 11.75 ( .06)   | I 1.79 (.001)    | I 6.6 (1.1)      | I                    |
| I 2.13     | I 11.88 ( .06)   | I 1.87 (.002)    | I 5.9 (1.1)      | I                    |
| I 1.06     | I 12.06 ( .05)   | I 1.81 (.001)    | I 5.2 (1.0)      | I                    |
| I .00      | I 13.63          | I                |                  |                      |
| I -.02     | I 12.96          | I                |                  |                      |
| I -.05     | I 13.03          | I                |                  |                      |
| I -.10     | I 12.61          | I                |                  |                      |
| I -.23     | I 8.85           | I                |                  |                      |
| I -.51     | I 6.69           | I                |                  |                      |

>>> 1830 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -3.9 ( 11.2) W/M\*\*2 145.4 ( 12.3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 11.48 ( .05)   | I 1.77 (.002)    | I 7.0 (1.2)      | I 302.3 ( 9.2)       |
| I 8.50     | I 11.59 ( .06)   | I 1.72 (.002)    | I 6.4 (1.1)      | I                    |
| I 4.25     | I 11.65 ( .07)   | I 1.75 (.002)    | I 6.0 (1.1)      | I                    |
| I 2.13     | I 11.69 ( .09)   | I 1.83 (.002)    | I 5.3 (1.0)      | I                    |
| I 1.06     | I 11.79 ( .11)   | I 1.76 (.002)    | I 4.8 (1.0)      | I                    |
| I .00      | I 12.28          | I                |                  |                      |
| I -.02     | I 12.25          | I                |                  |                      |
| I -.05     | I 12.41          | I                |                  |                      |
| I -.10     | I 12.35          | I                |                  |                      |
| I -.23     | I 8.94           | I                |                  |                      |
| I -.51     | I 6.69           | I                |                  |                      |

&gt;&gt;&gt; 80-05-10 1900 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS        |        |                        |          | BASE (M)   |            | PRECIPITATION |      |
|---------------|--------|------------------------|----------|------------|------------|---------------|------|
| I             | N      | LOW                    | MID-HIGH | I          | SINCE 07LT | I             | I    |
| I             | 2/8    | 2/8 CU                 |          | I          | 2000       | I             | (MM) |
| -----         |        |                        |          |            |            |               |      |
| PRESSURE (MB) |        | GEOSTROPHIC WIND (M/S) |          | VISIBILITY |            | WEATHER       |      |
| I             | QFE    | QFF                    | I        | UG         | VG         | I             | (KM) |
| I             | 1017.9 | 1026.5                 | I        | 3.9        | -5.9       | I             | >30  |

&gt;&gt;&gt; 1900 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION -54.3 ( 8.6) W/M\*\*2  
 GLOBAL RADIATION 84.9 ( 11.0) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 11.18 ( .08)   | I 1.85 (.001)    | I 6.3 ( .9)      | I 302.0 ( 8.2)       |
| I 8.50     | I 11.23 ( .09)   | I 1.80 (.001)    | I 5.9 ( .9)      | I                    |
| I 4.25     | I 11.21 ( .11)   | I 1.81 (.001)    | I 5.4 (1.0)      | I                    |
| I 2.13     | I 11.16 ( .13)   | I 1.90 (.001)    | I 4.8 ( .9)      | I                    |
| I 1.06     | I 11.16 ( .15)   | I 1.82 (.001)    | I 4.1 ( .8)      | I                    |
| I .00      | I 10.82          | I                |                  |                      |
| I -.02     | I 11.34          | I                |                  |                      |
| I -.05     | I 11.70          | I                |                  |                      |
| I -.10     | I 12.02          | I                |                  |                      |
| I -.23     | I 8.96           | I                |                  |                      |
| I -.51     | I 6.66           | I                |                  |                      |

&gt;&gt;&gt; 1930 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION -90.0 ( 5.8) W/M\*\*2  
 GLOBAL RADIATION 35.1 ( 8.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 10.79 ( .09)   | I 1.85 (.001)    | I 5.8 ( .8)      | I 301.9 ( 6.6)       |
| I 8.50     | I 10.75 ( .11)   | I 1.80 (.001)    | I 5.2 ( .8)      | I                    |
| I 4.25     | I 10.61 ( .16)   | I 1.81 (.001)    | I 4.7 ( .8)      | I                    |
| I 2.13     | I 10.47 ( .18)   | I 1.90 (.001)    | I 4.1 ( .8)      | I                    |
| I 1.06     | I 10.32 ( .19)   | I 1.80 (.001)    | I 3.7 ( .8)      | I                    |
| I .00      | I 9.23           | I                |                  |                      |
| I -.02     | I 10.35          | I                |                  |                      |
| I -.05     | I 10.98          | I                |                  |                      |
| I -.10     | I 11.65          | I                |                  |                      |
| I -.23     | I 8.99           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

&gt;&gt;&gt; 80-05-10 2000 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |        |        |          | BASE (M)   |      |         |  |
|---------------|--------|--------|----------|------------|------|---------|--|
| I             | N      | LOW    | MID-HIGH | I          |      | I       |  |
| I             | 1/8    | 1/8 CU |          | I          | 2000 | I       |  |
| -----         |        |        |          |            |      |         |  |
| PRESSURE (MB) |        |        |          | VISIBILITY |      | WEATHER |  |
| I             | QFE    | QFF    | I        | I          | (KM) | I       |  |
| I             | 1018.1 | 1026.8 | I        | I          | >30  | I       |  |

&gt;&gt;&gt; 2000 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION -105.5 ( .5) W/M\*\*2  
 GLOBAL RADIATION 5.7 ( 2.5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 10.30 ( .11)   | I 1.95 (.002)    | I 5.3 ( .6)      | I 310.2 ( 5.1)       |
| I 8.50     | I 10.15 ( .12)   | I 1.93 (.004)    | I 4.7 ( .6)      | I                    |
| I 4.25     | I 9.87 ( .16)    | I 1.91 (.002)    | I 4.3 ( .6)      | I                    |
| I 2.13     | I 9.56 ( .21)    | I 2.02 (.002)    | I 3.6 ( .7)      | I                    |
| I 1.06     | I 9.30 ( .24)    | I 1.89 (.002)    | I 3.0 ( .7)      | I                    |
| I .00      | I 7.76           | I                |                  |                      |
| I -.02     | I 9.40           | I                |                  |                      |
| I -.05     | I 10.27          | I                |                  |                      |
| I -.10     | I 11.28          | I                |                  |                      |
| I -.23     | I 9.01           | I                |                  |                      |
| I -.51     | I 6.59           | I                |                  |                      |

&gt;&gt;&gt; 2030 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION -101.5 ( 3.1) W/M\*\*2  
 GLOBAL RADIATION -1.2 ( .7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 9.73 ( .06)    | I 2.14 (.002)    | I 4.1 ( .3)      | I 310.4 ( 4.4)       |
| I 8.50     | I 9.44 ( .09)    | I 2.10 (.002)    | I 3.4 ( .2)      | I                    |
| I 4.25     | I 8.79 ( .15)    | I 2.03 (.002)    | I 2.9 ( .2)      | I                    |
| I 2.13     | I 8.06 ( .26)    | I 2.13 (.003)    | I 2.2 ( .3)      | I                    |
| I 1.06     | I 7.54 ( .35)    | I 1.93 (.002)    | I 1.7 ( .2)      | I                    |
| I .00      | I 6.22           | I                |                  |                      |
| I -.02     | I 8.55           | I                |                  |                      |
| I -.05     | I 9.61           | I                |                  |                      |
| I -.10     | I 10.90          | I                |                  |                      |
| I -.23     | I 9.04           | I                |                  |                      |
| I -.51     | I 6.59           | I                |                  |                      |

| CLOUDS |               |        |          |          |            |   |           |
|--------|---------------|--------|----------|----------|------------|---|-----------|
| I      | N             | LOW    | MID-HIGH | BASE (M) | I          | I | I         |
| I      | 1/8           | 1/8 CU |          | 2500     | I          | I | I         |
| -----  |               |        |          |          |            |   |           |
| I      | PRESSURE (MB) |        |          | I        | VISIBILITY |   | I WEATHER |
| I      | QFE QFF I     |        |          | I        | (KM)       |   | I         |
| I      | 1018.8        | 1027.6 | I        | I        | >30        |   | I         |

## &gt;&gt;&gt; 2100 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
 -99.0 ( .4) W/M\*\*2 -2.7 ( .8) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 8.75 ( .32)    | I 2.20 (.002)    | I 3.1 ( .3)      | I 311.5 ( 23.8) I    |
| I 8.50     | I 8.19 ( .42)    | I 2.20 (.004)    | I 2.6 ( .4)      | I                    |
| I 4.25     | I 7.10 ( .52)    | I 2.10 (.005)    | I 2.2 ( .6)      | I                    |
| I 2.13     | I 6.12 ( .50)    | I 2.26 (.005)    | I 1.7 ( .6)      | I                    |
| I 1.06     | I 5.39 ( .41)    | I 1.95 (.003)    | I 1.3 ( .5)      | I                    |
| I .00      | I 4.57           | I                |                  |                      |
| I -.02     | I 7.66           | I                |                  |                      |
| I -.05     | I 8.93           | I                |                  |                      |
| I -.10     | I 10.51          | I                |                  |                      |
| I -.23     | I 9.05           | I                |                  |                      |
| I -.51     | I 6.58           | I                |                  |                      |

## &gt;&gt;&gt; 2130 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
 -96.0 ( 1.6) W/M\*\*2 -2.2 ( .4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 8.09 ( .09)    | I 2.48 (.002)    | I 3.3 ( .3)      | I 313.9 ( 8.4) I     |
| I 8.50     | I 7.74 ( .20)    | I 2.47 (.002)    | I 2.9 ( .3)      | I                    |
| I 4.25     | I 6.84 ( .36)    | I 2.37 (.002)    | I 2.7 ( .3)      | I                    |
| I 2.13     | I 5.18 ( .29)    | I 2.39 (.003)    | I 1.9 ( .2)      | I                    |
| I 1.06     | I 4.13 ( .34)    | I 2.07 (.002)    | I 1.3 ( .2)      | I                    |
| I .00      | I 3.80           | I                |                  |                      |
| I -.02     | I 6.93           | I                |                  |                      |
| I -.05     | I 8.25           | I                |                  |                      |
| I -.10     | I 10.13          | I                |                  |                      |
| I -.23     | I 9.05           | I                |                  |                      |
| I -.51     | I 6.59           | I                |                  |                      |

## &gt;&gt;&gt; 80-05-10 2200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |                 |        |            |          |            |   |           |
|--------|-----------------|--------|------------|----------|------------|---|-----------|
| I      | N               | LOW    | MID-HIGH   | BASE (M) | I          | I | I         |
| I      | 1/8             | 1/8 CU |            | 2500     | I          | I | I         |
| -----  |                 |        |            |          |            |   |           |
| I      | PRESSURE (MB)   |        |            | I        | VISIBILITY |   | I WEATHER |
| I      | QFE QFF I UG VG |        |            | I        | (KM)       |   | I         |
| I      | 1019.4          | 1028.3 | I 1.9 -6.4 | I        | >30        |   | I         |

## &gt;&gt;&gt; 2200 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
 -96.6 ( 1.5) W/M\*\*2 -3.5 ( 1.5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 8.00 ( .26)    | I 2.39 (.001)    | I 5.0 ( .5)      | I 332.7 ( 8.3) I     |
| I 8.50     | I 7.32 ( .40)    | I 2.41 (.002)    | I 4.1 ( .5)      | I                    |
| I 4.25     | I 6.46 ( .55)    | I 2.35 (.002)    | I 3.4 ( .5)      | I                    |
| I 2.13     | I 5.70 ( .64)    | I 2.54 (.001)    | I 2.7 ( .5)      | I                    |
| I 1.06     | I 5.18 ( .72)    | I 2.39 (.001)    | I 2.1 ( .5)      | I                    |
| I .00      | I 4.04           | I                |                  |                      |
| I -.02     | I 6.37           | I                |                  |                      |
| I -.05     | I 7.67           | I                |                  |                      |
| I -.10     | I 9.71           | I                |                  |                      |
| I -.23     | I 9.05           | I                |                  |                      |
| I -.51     | I 6.58           | I                |                  |                      |

## &gt;&gt;&gt; 2230 LT P R O F I L E S &lt;&lt;&lt;-----

NET RADIATION GLOBAL RADIATION  
 -92.8 ( 1.5) W/M\*\*2 -2.4 ( .3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.20 ( .21)    | I 2.44 (.002)    | I 3.2 ( .2)      | I 335.4 ( 3.5) I     |
| I 8.50     | I 6.69 ( .36)    | I 2.47 (.002)    | I 2.6 ( .3)      | I                    |
| I 4.25     | I 4.84 ( .91)    | I 2.33 (.002)    | I 2.1 ( .4)      | I                    |
| I 2.13     | I 3.46 ( .46)    | I 2.40 (.002)    | I 1.4 ( .3)      | I                    |
| I 1.06     | I 2.89 ( .35)    | I 2.12 (.001)    | I 1.1 ( .2)      | I                    |
| I .00      | I 2.85           | I                |                  |                      |
| I -.02     | I 5.89           | I                |                  |                      |
| I -.05     | I 7.21           | I                |                  |                      |
| I -.10     | I 9.32           | I                |                  |                      |
| I -.23     | I 9.03           | I                |                  |                      |
| I -.51     | I 6.59           | I                |                  |                      |

| CLOUDS        |        |        |          | BASE (M) |                 | VISIBILITY |   | WEATHER |   |
|---------------|--------|--------|----------|----------|-----------------|------------|---|---------|---|
| I             | N      | LOW    | MID-HIGH | I        | I               | I          | I | I       | I |
| I             | 0/8    | /8     |          | I        |                 | I          |   | I       |   |
| PRESSURE (MB) |        |        |          |          | VISIBILITY (KM) |            |   |         |   |
| I             | QFE    | QFF    | I        | I        |                 | I          |   | I       |   |
| I             | 1020.6 | 1029.5 | I        | I        |                 | I          |   | I       |   |

2300 LT P R O F I L E S <<<  
 NET RADIATION -92.1 ( 1.2) W/M\*\*2  
 GLOBAL RADIATION -2.7 ( .4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.68 ( .12)    | I 2.49 (.001)    | I 4.0 ( .2)      | I 338.2 ( 2.6)       |
| I 8.50     | I 6.20 ( .20)    | I 2.48 (.001)    | I 3.5 ( .2)      | I                    |
| I 4.25     | I 4.00 ( .52)    | I 2.35 (.003)    | I 2.7 ( .2)      | I                    |
| I 2.13     | I 2.76 ( .45)    | I 2.44 (.003)    | I 1.8 ( .2)      | I                    |
| I 1.06     | I 2.08 ( .31)    | I 2.19 (.003)    | I 1.3 ( .2)      | I                    |
| I .00      | I 2.07           | I                |                  |                      |
| I -.02     | I 5.32           | I                |                  |                      |
| I -.05     | I 6.72           | I                |                  |                      |
| I -.10     | I 8.96           | I                |                  |                      |
| I -.23     | I 9.00           | I                |                  |                      |
| I -.51     | I 6.59           | I                |                  |                      |

2330 LT P R O F I L E S <<<  
 NET RADIATION -88.4 ( 2.4) W/M\*\*2  
 GLOBAL RADIATION -3.0 ( .3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.39 ( .14)    | I 2.41 (.000)    | I 3.2 ( .4)      | I 327.9 ( 4.5)       |
| I 8.50     | I 5.98 ( .13)    | I 2.42 (.000)    | I 2.7 ( .4)      | I                    |
| I 4.25     | I 5.03 ( .33)    | I 2.51 (.001)    | I 2.3 ( .2)      | I                    |
| I 2.13     | I 3.19 ( .44)    | I 2.54 (.001)    | I 1.7 ( .2)      | I                    |
| I 1.06     | I 1.59 ( .29)    | I 2.16 (.001)    | I 1.2 ( .1)      | I                    |
| I .00      | I 1.44           | I                |                  |                      |
| I -.02     | I 4.81           | I                |                  |                      |
| I -.05     | I 6.24           | I                |                  |                      |
| I -.10     | I 8.59           | I                |                  |                      |
| I -.23     | I 8.96           | I                |                  |                      |
| I -.51     | I 6.61           | I                |                  |                      |

&gt;&gt;&gt; 80-05-11 0000 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |        |        |          | BASE (M) |                 | VISIBILITY |   | WEATHER |   |
|---------------|--------|--------|----------|----------|-----------------|------------|---|---------|---|
| I             | N      | LOW    | MID-HIGH | I        | I               | I          | I | I       | I |
| I             | 0/8    | /8     |          | I        |                 | I          |   | I       |   |
| PRESSURE (MB) |        |        |          |          | VISIBILITY (KM) |            |   |         |   |
| I             | QFE    | QFF    | I        | I        |                 | I          |   | I       |   |
| I             | 1021.3 | 1030.3 | I        | I        |                 | I          |   | I       |   |

0000 LT P R O F I L E S <<<  
 NET RADIATION -87.6 ( .6) W/M\*\*2  
 GLOBAL RADIATION -2.9 ( .7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.94 ( .07)    | I 2.45 (.002)    | I 3.2 ( .4)      | I 314.9 ( 9.9)       |
| I 8.50     | I 5.48 ( .10)    | I 2.45 (.002)    | I 2.7 ( .2)      | I                    |
| I 4.25     | I 4.48 ( .27)    | I 2.41 (.002)    | I 2.2 ( .2)      | I                    |
| I 2.13     | I 3.04 ( .59)    | I 2.51 (.002)    | I 1.7 ( .2)      | I                    |
| I 1.06     | I 1.36 ( .36)    | I 2.20 (.002)    | I 1.2 ( .1)      | I                    |
| I .00      | I .89            | I                |                  |                      |
| I -.02     | I 4.36           | I                |                  |                      |
| I -.05     | I 5.80           | I                |                  |                      |
| I -.10     | I 8.24           | I                |                  |                      |
| I -.23     | I 8.91           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

0030 LT P R O F I L E S <<<  
 NET RADIATION -82.0 ( 3.4) W/M\*\*2  
 GLOBAL RADIATION -2.5 ( .6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.58 ( .12)    | I 2.39 (.001)    | I 3.7 ( .3)      | I 338.9 ( 4.8)       |
| I 8.50     | I 5.16 ( .12)    | I 2.39 (.001)    | I 3.1 ( .3)      | I                    |
| I 4.25     | I 4.03 ( .31)    | I 2.30 (.001)    | I 2.6 ( .2)      | I                    |
| I 2.13     | I 2.49 ( .38)    | I 2.40 (.001)    | I 1.9 ( .2)      | I                    |
| I 1.06     | I 1.23 ( .50)    | I 2.18 (.001)    | I 1.3 ( .2)      | I                    |
| I .00      | I .76            | I                |                  |                      |
| I -.02     | I 3.96           | I                |                  |                      |
| I -.05     | I 5.39           | I                |                  |                      |
| I -.10     | I 7.88           | I                |                  |                      |
| I -.23     | I 8.85           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

| CLOUDS                                                          |        |          |          | PRESIPITATION |      |
|-----------------------------------------------------------------|--------|----------|----------|---------------|------|
| N                                                               | LOW    | MID-HIGH | BASE (M) | SINCE 13LT    | (MM) |
| 0/8                                                             | /8     |          |          |               |      |
| PRESSURE (MB) I GEOSTROPHIC WIND (M/S) I VISIBILITY I WEATHER I |        |          |          |               |      |
| QFE                                                             | QFF    | UG       | VG       | UG-850-VG     | (KM) |
| 1021.6                                                          | 1030.6 | .7       | -7.1     | 2.7 -9.9      | >30  |

## &gt;&gt;&gt; 0100 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
 -88.7 ( 1.1) W/M\*\*2 -2.4 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 5.08 ( .11)      | 2.39 (.001)      | 3.2 ( .2)        | 329.7 ( 6.1)         |
| 8.50       | 4.71 ( .10)      | 2.39 (.001)      | 2.6 ( .2)        |                      |
| 4.25       | 3.26 ( .55)      | 2.26 (.001)      | 2.0 ( .2)        |                      |
| 2.13       | .86 ( .95)       | 2.20 (.002)      | 1.1 ( .3)        |                      |
| 1.06       | -.11 ( .66)      | 1.96 (.001)      | .7 ( .2)         |                      |
| .00        | .03              |                  |                  |                      |
| -.02       | 3.61             |                  |                  |                      |
| -.05       | 5.05             |                  |                  |                      |
| -.10       | 7.57             |                  |                  |                      |
| -.23       | 8.77             |                  |                  |                      |
| -.51       | 6.63             |                  |                  |                      |

## &gt;&gt;&gt; 0130 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
 -89.0 ( 1.4) W/M\*\*2 -3.3 ( .4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 4.67 ( .06)      | 2.35 (.000)      | 4.3 ( .5)        | 339.7 ( 7.8)         |
| 8.50       | 4.12 ( .18)      | 2.34 (.001)      | 3.6 ( .5)        |                      |
| 4.25       | 2.96 ( .47)      | 2.23 (.001)      | 2.9 ( .4)        |                      |
| 2.13       | 1.45 ( .24)      | 2.37 (.001)      | 2.0 ( .3)        |                      |
| 1.06       | .13 ( .68)       | 2.15 (.001)      | 1.5 ( .3)        |                      |
| .00        | -.44             |                  |                  |                      |
| -.02       | 3.14             |                  |                  |                      |
| -.05       | 4.63             |                  |                  |                      |
| -.10       | 7.25             |                  |                  |                      |
| -.23       | 8.70             |                  |                  |                      |
| -.51       | 6.63             |                  |                  |                      |

## &gt;&gt;&gt; 80-05-11 0200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS                                 |        |          |          | PRESIPITATION |      |
|----------------------------------------|--------|----------|----------|---------------|------|
| N                                      | LOW    | MID-HIGH | BASE (M) | SINCE 13LT    | (MM) |
| 0/8                                    | /8     |          |          |               |      |
| PRESSURE (MB) I VISIBILITY I WEATHER I |        |          |          |               |      |
| QFE                                    | QFF    | UG       | VG       | UG-850-VG     | (KM) |
| 1021.7                                 | 1030.7 |          |          | >30           |      |

## &gt;&gt;&gt; 0200 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
 -91.1 ( 1.1) W/M\*\*2 -2.7 ( .3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 3.87 ( .25)      | 2.31 (.002)      | 3.5 ( .5)        | 335.2 ( 4.7)         |
| 8.50       | 3.31 ( .24)      | 2.33 (.002)      | 2.7 ( .6)        |                      |
| 4.25       | 2.33 ( .17)      | 2.27 (.002)      | 2.2 ( .4)        |                      |
| 2.13       | 1.02 ( .36)      | 2.33 (.001)      | 1.7 ( .3)        |                      |
| 1.06       | -.14 ( .41)      | 2.07 (.001)      | 1.1 ( .3)        |                      |
| .00        | -.47             |                  |                  |                      |
| -.02       | 2.87             |                  |                  |                      |
| -.05       | 4.29             |                  |                  |                      |
| -.10       | 6.93             |                  |                  |                      |
| -.23       | 8.62             |                  |                  |                      |
| -.51       | 6.64             |                  |                  |                      |

## &gt;&gt;&gt; 0230 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
 -91.4 ( .2) W/M\*\*2 -3.0 ( .2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 3.60 ( .05)      | 2.33 (.001)      | 3.9 ( .4)        | 348.0 ( 11.4)        |
| 8.50       | 3.10 ( .13)      | 2.32 (.001)      | 3.2 ( .3)        |                      |
| 4.25       | 1.88 ( .23)      | 2.21 (.001)      | 2.7 ( .3)        |                      |
| 2.13       | .84 ( .20)       | 2.31 (.001)      | 1.9 ( .2)        |                      |
| 1.06       | .18 ( .16)       | 2.16 (.001)      | 1.4 ( .2)        |                      |
| .00        | -.73             |                  |                  |                      |
| -.02       | 2.56             |                  |                  |                      |
| -.05       | 3.95             |                  |                  |                      |
| -.10       | 6.63             |                  |                  |                      |
| -.23       | 8.53             |                  |                  |                      |
| -.51       | 6.66             |                  |                  |                      |

&gt;&gt;&gt; 80-05-11 0300 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS            |        |        |          |          |  |
|-------------------|--------|--------|----------|----------|--|
| I                 | N      | LOW    | MID-HIGH | BASE (M) |  |
| I                 | 0/8    | /8     |          |          |  |
| I PRESSURE (MB) I |        |        |          |          |  |
| I QFE QFF I       |        |        |          |          |  |
| I                 | 1022.1 | 1031.1 | I        |          |  |

| VISIBILITY |      | WEATHER |  |
|------------|------|---------|--|
| I          | (KM) | I       |  |
| I          | >30  | I       |  |

----->>> 0300 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -90.3 ( .1) W/M\*\*2 -2.7 ( .4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 3.42 ( .10)    | I 2.31 (.000)    | I 3.9 ( .3)      | I 340.0 ( 2.8) I     |
| I 8.50     | I 3.04 ( .21)    | I 2.30 (.000)    | I 3.3 ( .3)      | I                    |
| I 4.25     | I 2.07 ( .41)    | I 2.28 (.000)    | I 2.8 ( .3)      | I                    |
| I 2.13     | I .45 ( .33)     | I 2.30 (.000)    | I 1.9 ( .2)      | I                    |
| I 1.06     | I -.71 ( .34)    | I 2.05 (.001)    | I 1.3 ( .1)      | I                    |
| I .00      | I -1.08          | I                |                  |                      |
| I -.02     | I 2.29           | I                |                  |                      |
| I -.05     | I 3.66           | I                |                  |                      |
| I -.10     | I 6.35           | I                |                  |                      |
| I -.23     | I 8.44           | I                |                  |                      |
| I -.51     | I 6.67           | I                |                  |                      |

----->>> 0330 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -87.7 ( .5) W/M\*\*2 -4 ( 1.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 2.94 ( .09)    | I 2.32 (.001)    | I 3.3 ( .2)      | I 333.8 ( 4.5) I     |
| I 8.50     | I 2.44 ( .09)    | I 2.31 (.001)    | I 2.6 ( .2)      | I                    |
| I 4.25     | I 1.74 ( .30)    | I 2.26 (.001)    | I 2.4 ( .2)      | I                    |
| I 2.13     | I .28 ( .69)     | I 2.34 (.001)    | I 1.8 ( .2)      | I                    |
| I 1.06     | I -1.03 ( .49)   | I 2.10 (.001)    | I 1.3 ( .2)      | I                    |
| I .00      | I -1.49          | I                |                  |                      |
| I -.02     | I 1.99           | I                |                  |                      |
| I -.05     | I 3.35           | I                |                  |                      |
| I -.10     | I 6.08           | I                |                  |                      |
| I -.23     | I 8.37           | I                |                  |                      |
| I -.51     | I 6.69           | I                |                  |                      |

&gt;&gt;&gt; 80-05-11 0400 LT S Y N O P &lt;&lt;&lt;

| CLOUDS            |        |        |          |          |  |
|-------------------|--------|--------|----------|----------|--|
| I                 | N      | LOW    | MID-HIGH | BASE (M) |  |
| I                 | 0/8    | /8     |          |          |  |
| I PRESSURE (MB) I |        |        |          |          |  |
| I QFE QFF I       |        |        |          |          |  |
| I                 | 1022.6 | 1031.6 | I        |          |  |

| GEOSTROPHIC WIND (M/S) |         | VISIBILITY |      | WEATHER |  |
|------------------------|---------|------------|------|---------|--|
| I                      | UG VG   | I          | (KM) | I       |  |
| I                      | .4 -7.3 | I          | >30  | I       |  |

----->>> 0400 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -78.5 ( 2.2) W/M\*\*2 15.2 ( 7.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 2.93 ( .05)    | I 2.33 (.000)    | I 3.8 ( .2)      | I 338.5 ( 3.7) I     |
| I 8.50     | I 2.50 ( .07)    | I 2.36 (.000)    | I 3.2 ( .1)      | I                    |
| I 4.25     | I 1.41 ( .19)    | I 2.26 (.001)    | I 2.7 ( .1)      | I                    |
| I 2.13     | I -.55 ( .14)    | I 2.25 (.001)    | I 1.8 ( .2)      | I                    |
| I 1.06     | I -1.62 ( .15)   | I 2.04 (.001)    | I 1.2 ( .1)      | I                    |
| I .00      | I -1.67          | I                |                  |                      |
| I -.02     | I 1.71           | I                |                  |                      |
| I -.05     | I 3.07           | I                |                  |                      |
| I -.10     | I 5.82           | I                |                  |                      |
| I -.23     | I 8.26           | I                |                  |                      |
| I -.51     | I 6.71           | I                |                  |                      |

----->>> 0430 LT P R O F I L E S <<<-----  
 NET RADIATION GLOBAL RADIATION  
 -56.7 ( 5.4) W/M\*\*2 55.6 ( 8.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 2.57 ( .06)    | I 2.29 (.000)    | I 2.5 ( .2)      | I 322.6 ( 5.5) I     |
| I 8.50     | I 2.39 ( .06)    | I 2.29 (.000)    | I 2.1 ( .2)      | I                    |
| I 4.25     | I 1.86 ( .11)    | I 2.25 (.000)    | I 1.8 ( .2)      | I                    |
| I 2.13     | I 1.12 ( .23)    | I 2.41 (.001)    | I 1.2 ( .2)      | I                    |
| I 1.06     | I .54 ( .37)     | I 2.32 (.001)    | I .9 ( .1)       | I                    |
| I .00      | I -.77           | I                |                  |                      |
| I -.02     | I 1.63           | I                |                  |                      |
| I -.05     | I 2.88           | I                |                  |                      |
| I -.10     | I 5.56           | I                |                  |                      |
| I -.23     | I 8.16           | I                |                  |                      |
| I -.51     | I 6.71           | I                |                  |                      |

| CLOUDS |               |          |          |   |            | SOILWATER |         |
|--------|---------------|----------|----------|---|------------|-----------|---------|
| I N    | LOW           | MID-HIGH | BASE (M) | I | I          | I         | I       |
| I 1/8  | /8            | CI       | 5000     | I | I          | I         | I       |
| I      |               |          |          | I |            | I         |         |
| I      | PRESSURE (MB) | I        |          | I | VISIBILITY | I         | WEATHER |
| I      | QFE           | QFF I    |          | I | (KM)       | I         |         |
| I      | 1023.1        | 1032.0 I |          | I | >30        | I         |         |

>>> 0500 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 -18.9 ( 10.3) W/M\*\*2 107.9 ( 12.4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 2.61 ( .14)    | I 2.32 (.000)    | I 2.7 ( .5)      | I 337.5 ( 8.2) I     |
| I 8.50     | I 2.52 ( .19)    | I 2.33 (.001)    | I 2.1 ( .4)      | I                    |
| I 4.25     | I 2.38 ( .26)    | I 2.27 (.001)    | I 1.9 ( .5)      | I                    |
| I 2.13     | I 2.29 ( .34)    | I 2.48 (.001)    | I 1.5 ( .5)      | I                    |
| I 1.06     | I 2.21 ( .38)    | I 2.36 (.001)    | I 1.3 ( .5)      | I                    |
| I .00      | I 1.69           | I                |                  |                      |
| I -.02     | I 1.89           | I                |                  |                      |
| I -.05     | I 2.96           | I                |                  |                      |
| I -.10     | I 5.33           | I                |                  |                      |
| I -.23     | I 8.06           | I                |                  |                      |
| I -.51     | I 6.71           | I                |                  |                      |

>>> 0530 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 38.7 ( 12.1) W/M\*\*2 176.4 ( 14.0) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 3.47 ( .16)    | I 2.41 (.001)    | I 3.7 ( .6)      | I 346.6 ( 11.7) I    |
| I 8.50     | I 3.59 ( .16)    | I 2.40 (.001)    | I 3.4 ( .6)      | I                    |
| I 4.25     | I 3.62 ( .18)    | I 2.36 (.001)    | I 3.3 ( .6)      | I                    |
| I 2.13     | I 3.69 ( .20)    | I 2.51 (.001)    | I 2.9 ( .6)      | I                    |
| I 1.06     | I 3.73 ( .22)    | I 2.43 (.001)    | I 2.6 ( .6)      | I                    |
| I .00      | I 4.05           | I                |                  |                      |
| I -.02     | I 2.54           | I                |                  |                      |
| I -.05     | I 3.58           | I                |                  |                      |
| I -.10     | I 5.22           | I                |                  |                      |
| I -.23     | I 7.96           | I                |                  |                      |
| I -.51     | I 6.72           | I                |                  |                      |

&gt;&gt;&gt; 80-05-11 0600 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |               |          |          |   |            |   |         |
|--------|---------------|----------|----------|---|------------|---|---------|
| I N    | LOW           | MID-HIGH | BASE (M) | I | I          | I | I       |
| I 1/8  | /8            | CI       | 5000     | I | I          | I | I       |
| I      |               |          |          | I |            | I |         |
| I      | PRESSURE (MB) | I        |          | I | VISIBILITY | I | WEATHER |
| I      | QFE           | QFF I    |          | I | (KM)       | I |         |
| I      | 1023.6        | 1032.4 I |          | I | >30        | I |         |

>>> 0600 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 100.4 ( 12.1) W/M\*\*2 246.7 ( 13.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.10 ( .11)    | I 2.43 (.001)    | I 4.8 ( .6)      | I 351.3 (363.9) I    |
| I 8.50     | I 4.25 ( .12)    | I 2.39 (.001)    | I 4.6 ( .6)      | I                    |
| I 4.25     | I 4.33 ( .14)    | I 2.36 (.001)    | I 4.5 ( .7)      | I                    |
| I 2.13     | I 4.53 ( .18)    | I 2.51 (.001)    | I 4.0 ( .7)      | I                    |
| I 1.06     | I 4.67 ( .21)    | I 2.46 (.001)    | I 3.6 ( .7)      | I                    |
| I .00      | I 6.20           | I                |                  |                      |
| I -.02     | I 3.32           | I                |                  |                      |
| I -.05     | I 4.39           | I                |                  |                      |
| I -.10     | I 5.23           | I                |                  |                      |
| I -.23     | I 7.82           | I                |                  |                      |
| I -.51     | I 6.69           | I                |                  |                      |

>>> 0630 LT P R O F I L E S <<<  
 NET RADIATION GLOBAL RADIATION  
 166.8 ( 13.5) W/M\*\*2 319.8 ( 14.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.42 ( .09)    | I 2.42 (.001)    | I 5.1 ( .8)      | I 2.9 ( 22.0) I      |
| I 8.50     | I 4.58 ( .10)    | I 2.37 (.001)    | I 5.0 ( .9)      | I                    |
| I 4.25     | I 4.67 ( .12)    | I 2.31 (.001)    | I 4.8 ( .8)      | I                    |
| I 2.13     | I 4.99 ( .12)    | I 2.47 (.001)    | I 4.3 ( .9)      | I                    |
| I 1.06     | I 5.21 ( .13)    | I 2.41 (.001)    | I 3.8 ( .8)      | I                    |
| I .00      | I 8.46           | I                |                  |                      |
| I -.02     | I 4.19           | I                |                  |                      |
| I -.05     | I 5.25           | I                |                  |                      |
| I -.10     | I 5.39           | I                |                  |                      |
| I -.23     | I 7.69           | I                |                  |                      |
| I -.51     | I 6.68           | I                |                  |                      |

&gt;&gt;&gt; 80-05-11 0700 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS          |        |                        |      | BASE (M) |              | PRESIPITATION I |         |
|-----------------|--------|------------------------|------|----------|--------------|-----------------|---------|
| I N             | LOW    | MID-HIGH               |      |          | I SINCE 19LT | I               | I       |
| I 1/8           | /8     | CI                     | 5000 |          | I (MM)       | I               | I       |
| I -             |        |                        |      |          |              |                 | I       |
| I PRESSURE (MB) | I      | GEOSTROPHIC WIND (M/S) |      | I        | VISIBILITY   | I               | WEATHER |
| I QFE           | QFF    | I UG                   | VG   | I        | (KM)         | I               | I       |
| I 1024.2        | 1033.0 | I -.3                  | -7.4 | I        | >20          | I               | I       |

&gt;&gt;&gt; 0700 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
231.1 ( 11.7) W/M\*\*2 389.8 ( 12.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 4.96 ( .22)    | I 2.44 (.001)    | I 4.6 ( .7)      | I 11.5 ( 33.6)       |
| I 8.50     | I 5.15 ( .26)    | I 2.39 (.001)    | I 4.4 ( .8)      | I                    |
| I 4.25     | I 5.28 ( .30)    | I 2.34 (.001)    | I 4.3 ( .8)      | I                    |
| I 2.13     | I 5.64 ( .31)    | I 2.51 (.001)    | I 3.7 ( .8)      | I                    |
| I 1.06     | I 5.86 ( .28)    | I 2.43 (.001)    | I 3.3 ( .7)      | I                    |
| I .00      | I 11.43          |                  |                  |                      |
| I -.02     | I 5.18           |                  |                  |                      |
| I -.05     | I 6.32           |                  |                  |                      |
| I -.10     | I 5.64           |                  |                  |                      |
| I -.23     | I 7.59           |                  |                  |                      |
| I -.51     | I 6.67           |                  |                  |                      |

&gt;&gt;&gt; 0730 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
292.1 ( 10.7) W/M\*\*2 460.1 ( 13.4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.48 ( .13)    | I 2.36 (.001)    | I 4.7 ( .8)      | I 2.0 ( 21.9)        |
| I 8.50     | I 5.71 ( .17)    | I 2.33 (.001)    | I 4.5 ( .8)      | I                    |
| I 4.25     | I 5.85 ( .23)    | I 2.27 (.001)    | I 4.3 ( .8)      | I                    |
| I 2.13     | I 6.30 ( .23)    | I 2.44 (.002)    | I 3.8 ( .8)      | I                    |
| I 1.06     | I 6.62 ( .22)    | I 2.39 (.001)    | I 3.5 ( .8)      | I                    |
| I .00      | I 13.78          |                  |                  |                      |
| I -.02     | I 6.31           |                  |                  |                      |
| I -.05     | I 7.49           |                  |                  |                      |
| I -.10     | I 6.01           |                  |                  |                      |
| I -.23     | I 7.48           |                  |                  |                      |
| I -.51     | I 6.66           |                  |                  |                      |

&gt;&gt;&gt; 80-05-11 0800 LT S Y N O P &lt;&lt;&lt;

| CLOUDS          |        |                        |      | BASE (M) |              | PRESIPITATION I |         |
|-----------------|--------|------------------------|------|----------|--------------|-----------------|---------|
| I N             | LOW    | MID-HIGH               |      |          | I SINCE 19LT | I               | I       |
| I 1/8           | /8     | CI                     | 5000 |          | I (MM)       | I               | I       |
| I -             |        |                        |      |          |              |                 | I       |
| I PRESSURE (MB) | I      | GEOSTROPHIC WIND (M/S) |      | I        | VISIBILITY   | I               | WEATHER |
| I QFE           | QFF    | I                      |      | I        | (KM)         | I               | I       |
| I 1024.4        | 1033.2 | I                      |      | I        | >20          | I               | I       |

&gt;&gt;&gt; 0800 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
349.5 ( 11.2) W/M\*\*2 528.0 ( 12.1) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 5.75 ( .11)    | I 2.26 (.001)    | I 4.2 ( .8)      | I 347.9 (363.8)      |
| I 8.50     | I 6.00 ( .15)    | I 2.20 (.001)    | I 4.0 ( .9)      | I                    |
| I 4.25     | I 6.13 ( .22)    | I 2.14 (.001)    | I 3.9 ( .9)      | I                    |
| I 2.13     | I 6.54 ( .23)    | I 2.32 (.002)    | I 3.6 ( .9)      | I                    |
| I 1.06     | I 6.95 ( .24)    | I 2.28 (.001)    | I 3.3 ( .8)      | I                    |
| I .00      | I 16.46          |                  |                  |                      |
| I -.02     | I 7.52           |                  |                  |                      |
| I -.05     | I 8.80           |                  |                  |                      |
| I -.10     | I 6.48           |                  |                  |                      |
| I -.23     | I 7.39           |                  |                  |                      |
| I -.51     | I 6.66           |                  |                  |                      |

&gt;&gt;&gt; 0830 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
403.9 ( 10.2) W/M\*\*2 588.4 ( 11.4) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.30 ( .17)    | I 2.17 (.002)    | I 3.8 (1.0)      | I 353.5 (368.0)      |
| I 8.50     | I 6.56 ( .22)    | I 2.15 (.002)    | I 3.6 ( .9)      | I                    |
| I 4.25     | I 6.69 ( .31)    | I 2.07 (.001)    | I 3.5 (1.0)      | I                    |
| I 2.13     | I 7.11 ( .32)    | I 2.27 (.002)    | I 3.2 (1.0)      | I                    |
| I 1.06     | I 7.55 ( .36)    | I 2.21 (.002)    | I 2.9 ( .9)      | I                    |
| I .00      | I 19.50          |                  |                  |                      |
| I -.02     | I 8.96           |                  |                  |                      |
| I -.05     | I 10.19          |                  |                  |                      |
| I -.10     | I 7.03           |                  |                  |                      |
| I -.23     | I 7.31           |                  |                  |                      |
| I -.51     | I 6.64           |                  |                  |                      |

| CLOUDS |               |        |          |           |   |            |   |   |
|--------|---------------|--------|----------|-----------|---|------------|---|---|
| I      | N             | LOW    | MID-HIGH | BASE (M)  | I | I          | I | I |
| I      | 1/8           | 1/8 CU | CI       | 1400 5000 | I | I          | I | I |
| I      |               |        |          |           | I |            |   | I |
| I      | PRESSURE (MB) |        |          |           | I | VISIBILITY |   | I |
| I      | QFE QFF I     |        |          |           | I | (KM)       |   | I |
| I      | 1024.5        | 1033.2 | I        |           | I | >20        |   | I |

## &gt;&gt;&gt; 0900 LT P R O F I L E S &lt;&lt;&lt;

| NET RADIATION       | GLOBAL RADIATION     |
|---------------------|----------------------|
| 449.3 ( 7.9) W/M**2 | 641.4 ( 10.3) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 6.70 ( .19)    | I 2.09 (.001)    | I 3.1 (1.1)      | I 351.9 (364.4)      |
| I 8.50     | I 6.94 ( .24)    | I 2.07 (.002)    | I 3.0 (1.1)      | I                    |
| I 4.25     | I 7.10 ( .31)    | I 1.98 (.001)    | I 2.9 (1.1)      | I                    |
| I 2.13     | I 7.50 ( .35)    | I 2.18 (.003)    | I 2.6 (1.1)      | I                    |
| I 1.06     | I 7.95 ( .39)    | I 2.11 (.002)    | I 2.4 (1.0)      | I                    |
| I .00      | I 21.46          | I                |                  |                      |
| I -.02     | I 10.49          | I                |                  |                      |
| I -.05     | I 11.61          | I                |                  |                      |
| I -.10     | I 7.69           | I                |                  |                      |
| I -.23     | I 7.25           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

## &gt;&gt;&gt; 0930 LT P R O F I L E S &lt;&lt;&lt;

| NET RADIATION       | GLOBAL RADIATION    |
|---------------------|---------------------|
| 493.2 ( 6.0) W/M**2 | 692.1 ( 8.4) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.21 ( .23)    | I 2.04 (.002)    | I 4.9 (1.1)      | I 325.7 ( 20.7)      |
| I 8.50     | I 7.51 ( .26)    | I 2.00 (.002)    | I 4.7 (1.1)      | I                    |
| I 4.25     | I 7.81 ( .38)    | I 1.95 (.002)    | I 4.6 (1.1)      | I                    |
| I 2.13     | I 8.28 ( .41)    | I 2.14 (.003)    | I 4.2 (1.1)      | I                    |
| I 1.06     | I 8.89 ( .48)    | I 2.12 (.003)    | I 3.8 (1.0)      | I                    |
| I .00      | I 21.86          | I                |                  |                      |
| I -.02     | I 11.75          | I                |                  |                      |
| I -.05     | I 12.88          | I                |                  |                      |
| I -.10     | I 8.43           | I                |                  |                      |
| I -.23     | I 7.21           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

## &gt;&gt;&gt; 80-05-11 1000 LT S Y N O P &lt;&lt;&lt;

| CLOUDS |               |        |          |           |   |            |   |   |
|--------|---------------|--------|----------|-----------|---|------------|---|---|
| I      | N             | LOW    | MID-HIGH | BASE (M)  | I | I          | I | I |
| I      | 1/8           | 1/8 CU | CI       | 1600 5000 | I | I          | I | I |
| I      |               |        |          |           | I |            |   | I |
| I      | PRESSURE (MB) |        |          |           | I | VISIBILITY |   | I |
| I      | QFE QFF I     |        |          |           | I | (KM)       |   | I |
| I      | 1024.4        | 1033.2 | I        | .3 -4.7   | I | >20        |   | I |

## &gt;&gt;&gt; 1000 LT P R O F I L E S &lt;&lt;&lt;

| NET RADIATION       | GLOBAL RADIATION    |
|---------------------|---------------------|
| 527.1 ( 6.9) W/M**2 | 732.7 ( 7.9) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.67 ( .32)    | I 2.00 (.002)    | I 4.9 (1.1)      | I 317.6 ( 15.6)      |
| I 8.50     | I 7.90 ( .31)    | I 1.95 (.002)    | I 4.5 (1.1)      | I                    |
| I 4.25     | I 8.17 ( .37)    | I 1.92 (.002)    | I 4.4 (1.1)      | I                    |
| I 2.13     | I 8.62 ( .38)    | I 2.08 (.003)    | I 4.0 (1.1)      | I                    |
| I 1.06     | I 9.21 ( .40)    | I 2.07 (.002)    | I 3.7 (1.0)      | I                    |
| I .00      | I 22.38          | I                |                  |                      |
| I -.02     | I 12.87          | I                |                  |                      |
| I -.05     | I 13.89          | I                |                  |                      |
| I -.10     | I 9.15           | I                |                  |                      |
| I -.23     | I 7.20           | I                |                  |                      |
| I -.51     | I 6.62           | I                |                  |                      |

## &gt;&gt;&gt; 1030 LT P R O F I L E S &lt;&lt;&lt;

| NET RADIATION       | GLOBAL RADIATION    |
|---------------------|---------------------|
| 550.4 ( 7.8) W/M**2 | 765.2 ( 7.0) W/M**2 |

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 7.86 ( .19)    | I 1.95 (.001)    | I 5.7 (1.4)      | I 295.9 ( 13.6)      |
| I 8.50     | I 8.18 ( .25)    | I 1.92 (.002)    | I 5.4 (1.4)      | I                    |
| I 4.25     | I 8.50 ( .26)    | I 1.88 (.001)    | I 5.4 (1.4)      | I                    |
| I 2.13     | I 9.04 ( .31)    | I 2.05 (.002)    | I 4.9 (1.3)      | I                    |
| I 1.06     | I 9.79 ( .33)    | I 2.05 (.002)    | I 4.5 (1.2)      | I                    |
| I .00      | I 24.14          | I                |                  |                      |
| I -.02     | I 13.95          | I                |                  |                      |
| I -.05     | I 14.90          | I                |                  |                      |
| I -.10     | I 9.86           | I                |                  |                      |
| I -.23     | I 7.23           | I                |                  |                      |
| I -.51     | I 6.63           | I                |                  |                      |

&gt;&gt;&gt; 80-05-11 1100 LT S Y N O P &lt;&lt;&lt;

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| CLOUDS            |     |        |          |              |   |             |   |
|-------------------|-----|--------|----------|--------------|---|-------------|---|
| I                 | N   | LOW    | MID-HIGH | BASE (M)     | I | I           | I |
| I                 | 1/8 | 1/8 CU | CI       | 1900 5000    | I | I           | I |
| I-----I           |     |        |          |              |   |             |   |
| I PRESSURE (MB) I |     |        |          | I VISIBILITY |   | I WEATHER I |   |
| I QFE QFF I       |     |        |          | I (KM)       |   | I           |   |
| I 1024.5 1033.2 I |     |        |          | I >20        |   | I           |   |

&gt;&gt;&gt; 1100 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION GLOBAL RADIATION  
 559.8 ( 29.4) W/M\*\*2 773.3 ( 67.8) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00 I  | 8.23 ( .19)      | I 2.02 (.001) I  | 5.8 (1.4) I      | 301.2 ( 13.6) I      |
| I 8.50 I   | 8.58 ( .22)      | I 1.98 (.002) I  | 5.6 (1.5) I      |                      |
| I 4.25 I   | 8.89 ( .28)      | I 1.95 (.001) I  | 5.4 (1.4) I      |                      |
| I 2.13 I   | 9.42 ( .28)      | I 2.11 (.002) I  | 4.9 (1.4) I      |                      |
| I 1.06 I   | 10.12 ( .32)     | I 2.10 (.002) I  | 4.5 (1.2) I      |                      |
| I .00 I    | 23.97            | I                |                  |                      |
| I -.02 I   | 14.85            | I                |                  |                      |
| I -.05 I   | 15.80            | I                |                  |                      |
| I -.10 I   | 10.56            | I                |                  |                      |
| I -.23 I   | 7.28             | I                |                  |                      |
| I -.51 I   | 6.64             | I                |                  |                      |

&gt;&gt;&gt; 1130 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION GLOBAL RADIATION  
 579.4 ( 3.8) W/M\*\*2 802.7 ( 1.6) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00 I  | 8.84 ( .29)      | I 2.01 (.001) I  | 4.7 (1.2) I      | 297.1 ( 16.3) I      |
| I 8.50 I   | 9.19 ( .33)      | I 1.98 (.002) I  | 4.3 (1.2) I      |                      |
| I 4.25 I   | 9.53 ( .43)      | I 1.95 (.002) I  | 4.3 (1.2) I      |                      |
| I 2.13 I   | 9.99 ( .51)      | I 2.12 (.002) I  | 4.0 (1.1) I      |                      |
| I 1.06 I   | 10.63 ( .57)     | I 2.08 (.003) I  | 3.7 (1.0) I      |                      |
| I .00 I    | 26.68            | I                |                  |                      |
| I -.02 I   | 15.97            | I                |                  |                      |
| I -.05 I   | 16.65            | I                |                  |                      |
| I -.10 I   | 11.19            | I                |                  |                      |
| I -.23 I   | 7.35             | I                |                  |                      |
| I -.51 I   | 6.66             | I                |                  |                      |

&gt;&gt;&gt; 80-05-11 1200 LT S Y N O P &lt;&lt;&lt;

| CLOUDS            |     |        |          |              |   |             |   |
|-------------------|-----|--------|----------|--------------|---|-------------|---|
| I                 | N   | LOW    | MID-HIGH | BASE (M)     | I | I           | I |
| I                 | 3/8 | 2/8 CU | CI       | 1900 5000    | I | I           | I |
| I-----I           |     |        |          |              |   |             |   |
| I PRESSURE (MB) I |     |        |          | I VISIBILITY |   | I WEATHER I |   |
| I QFE QFF I       |     |        |          | I (KM)       |   | I           |   |
| I 1024.4 1033.0 I |     |        |          | I >20        |   | I           |   |

&gt;&gt;&gt; 1200 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION GLOBAL RADIATION  
 591.3 ( 8.3) W/M\*\*2 813.6 ( 7.0) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00 I  | 9.21 ( .29)      | I 2.02 (.001) I  | 5.5 (1.2) I      | 302.8 ( 18.4) I      |
| I 8.50 I   | 9.59 ( .33)      | I 1.98 (.002) I  | 5.3 (1.3) I      |                      |
| I 4.25 I   | 9.96 ( .39)      | I 1.96 (.002) I  | 5.1 (1.2) I      |                      |
| I 2.13 I   | 10.54 ( .40)     | I 2.14 (.002) I  | 4.6 (1.2) I      |                      |
| I 1.06 I   | 11.29 ( .36)     | I 2.13 (.002) I  | 4.2 (1.1) I      |                      |
| I .00 I    | 26.94            | I                |                  |                      |
| I -.02 I   | 16.97            | I                |                  |                      |
| I -.05 I   | 17.52            | I                |                  |                      |
| I -.10 I   | 11.83            | I                |                  |                      |
| I -.23 I   | 7.42             | I                |                  |                      |
| I -.51 I   | 6.64             | I                |                  |                      |

&gt;&gt;&gt; 1230 LT P R O F I L E S &lt;&lt;&lt;

 NET RADIATION GLOBAL RADIATION  
 584.8 ( 18.1) W/M\*\*2 806.2 ( 44.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00 I  | 9.65 ( .19)      | I 1.97 (.001) I  | 4.4 (1.6) I      | 315.5 ( 20.4) I      |
| I 8.50 I   | 9.93 ( .23)      | I 1.91 (.002) I  | 4.1 (1.6) I      |                      |
| I 4.25 I   | 10.16 ( .26)     | I 1.88 (.001) I  | 4.0 (1.6) I      |                      |
| I 2.13 I   | 10.61 ( .31)     | I 2.04 (.002) I  | 3.6 (1.6) I      |                      |
| I 1.06 I   | 11.26 ( .36)     | I 2.03 (.002) I  | 3.3 (1.5) I      |                      |
| I .00 I    | 29.38            | I                |                  |                      |
| I -.02 I   | 18.13            | I                |                  |                      |
| I -.05 I   | 18.29            | I                |                  |                      |
| I -.10 I   | 12.45            | I                |                  |                      |
| I -.23 I   | 7.52             | I                |                  |                      |
| I -.51 I   | 6.64             | I                |                  |                      |

| CLOUDS                                                            |        |          |      | BASE (M)  |              | PRESIPITATION |   |
|-------------------------------------------------------------------|--------|----------|------|-----------|--------------|---------------|---|
| I N                                                               | LOW    | MID-HIGH |      |           | I SINCE 01LT | I             | I |
| I 3/8                                                             | 1/8 CU | CI       | 1950 | 5000      | I            | (MM)          | I |
| I PRESSURE (MB) I GEOSTROPHIC WIND (M/S) I VISIBILITY I WEATHER I |        |          |      |           |              |               |   |
| I QFE                                                             | QFF    | I UG     | VG   | UG-850-VG | I            | (KM)          | I |
| I 1024.2                                                          | 1032.8 | I -.1    | -2.6 | 1.5 -9.2  | I            | >20           | I |

## &gt;&gt;&gt; 1300 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
559.2 ( 4.8) W/M\*\*2 781.9 ( 3.5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 9.82 ( .21)    | I 1.98 (.001)    | I 4.4 (1.9)      | I 307.7 ( 31.7)      |
| I 8.50     | I 10.12 ( .21)   | I 1.94 (.002)    | I 4.1 (1.8)      | I                    |
| I 4.25     | I 10.42 ( .29)   | I 1.91 (.002)    | I 4.0 (1.8)      | I                    |
| I 2.13     | I 10.94 ( .35)   | I 2.07 (.002)    | I 3.6 (1.7)      | I                    |
| I 1.06     | I 11.63 ( .51)   | I 2.04 (.002)    | I 3.3 (1.5)      | I                    |
| I .00      | I 27.70          | I                |                  |                      |
| I -.02     | I 18.56          | I                |                  |                      |
| I -.05     | I 18.84          | I                |                  |                      |
| I -.10     | I 13.06          | I                |                  |                      |
| I -.23     | I 7.63           | I                |                  |                      |
| I -.51     | I 6.64           | I                |                  |                      |

## &gt;&gt;&gt; 1330 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
531.5 ( 36.1) W/M\*\*2 744.6 ( 51.8) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 10.41 ( .37)   | I 1.98 (.002)    | I 4.0 (1.4)      | I 313.9 ( 26.8)      |
| I 8.50     | I 10.73 ( .38)   | I 1.95 (.002)    | I 3.6 (1.4)      | I                    |
| I 4.25     | I 10.97 ( .42)   | I 1.91 (.002)    | I 3.6 (1.4)      | I                    |
| I 2.13     | I 11.36 ( .43)   | I 2.08 (.003)    | I 3.3 (1.3)      | I                    |
| I 1.06     | I 11.98 ( .44)   | I 2.05 (.003)    | I 3.1 (1.2)      | I                    |
| I .00      | I 29.13          | I                |                  |                      |
| I -.02     | I 19.61          | I                |                  |                      |
| I -.05     | I 19.48          | I                |                  |                      |
| I -.10     | I 13.63          | I                |                  |                      |
| I -.23     | I 7.77           | I                |                  |                      |
| I -.51     | I 6.66           | I                |                  |                      |

## &gt;&gt;&gt; 80-05-11 1400 LT S Y N O P &lt;&lt;&lt;

| CLOUDS                                   |        |          |      | BASE (M) |   |      |   |
|------------------------------------------|--------|----------|------|----------|---|------|---|
| I N                                      | LOW    | MID-HIGH |      |          | I | I    | I |
| I 3/8                                    | 1/8 CU | CI       | 2250 | 5000     | I |      | I |
| I PRESSURE (MB) I VISIBILITY I WEATHER I |        |          |      |          |   |      |   |
| I QFE                                    | QFF    | I        |      |          | I | (KM) | I |
| I 1023.8                                 | 1032.4 | I        |      |          | I | >20  | I |

## &gt;&gt;&gt; 1400 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
376.0 ( 87.2) W/M\*\*2 569.4 (140.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 10.61 ( .23)   | I 1.86 (.002)    | I 4.6 (1.2)      | I 354.9 (368.3)      |
| I 8.50     | I 10.87 ( .28)   | I 1.84 (.002)    | I 4.4 (1.2)      | I                    |
| I 4.25     | I 11.16 ( .38)   | I 1.81 (.001)    | I 4.3 (1.1)      | I                    |
| I 2.13     | I 11.61 ( .41)   | I 2.01 (.003)    | I 3.9 (1.1)      | I                    |
| I 1.06     | I 12.18 ( .46)   | I 1.94 (.002)    | I 3.5 (1.0)      | I                    |
| I .00      | I 26.23          | I                |                  |                      |
| I -.02     | I 19.45          | I                |                  |                      |
| I -.05     | I 19.54          | I                |                  |                      |
| I -.10     | I 14.11          | I                |                  |                      |
| I -.23     | I 7.91           | I                |                  |                      |
| I -.51     | I 6.66           | I                |                  |                      |

## &gt;&gt;&gt; 1430 LT P R O F I L E S &lt;&lt;&lt;

NET RADIATION GLOBAL RADIATION  
442.6 ( 25.6) W/M\*\*2 654.3 ( 33.3) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| I 17.00    | I 10.88 ( .26)   | I 1.89 (.004)    | I 4.6 (1.4)      | I 340.7 (372.4)      |
| I 8.50     | I 11.11 ( .27)   | I 1.92 (.004)    | I 4.4 (1.3)      | I                    |
| I 4.25     | I 11.41 ( .36)   | I 1.86 (.004)    | I 4.3 (1.3)      | I                    |
| I 2.13     | I 11.90 ( .43)   | I 2.08 (.004)    | I 3.9 (1.3)      | I                    |
| I 1.06     | I 12.47 ( .50)   | I 2.00 (.004)    | I 3.6 (1.2)      | I                    |
| I .00      | I 26.52          | I                |                  |                      |
| I -.02     | I 19.36          | I                |                  |                      |
| I -.05     | I 19.12          | I                |                  |                      |
| I -.10     | I 14.51          | I                |                  |                      |
| I -.23     | I 8.11           | I                |                  |                      |
| I -.51     | I 6.71           | I                |                  |                      |

| CLOUDS        |        |          |    | BASE (M) |      | VISIBILITY |  | WEATHER |  |
|---------------|--------|----------|----|----------|------|------------|--|---------|--|
| N             | LOW    | MID-HIGH | CI | 2250     | 5000 | (KM)       |  |         |  |
| 3/8           | 1/8 CU |          |    |          |      | >20        |  |         |  |
| PRESSURE (MB) |        |          |    | QFE      |      | QFF        |  |         |  |
| 1023.6        | 1032.2 |          |    |          |      |            |  |         |  |

1500 LT P R O F I L E S <<<  
 NET RADIATION 448.9 ( 23.1) W/M\*\*2  
 GLOBAL RADIATION 666.2 ( 24.5) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 11.29 (.43)      | 1.86 (.003)      | 3.0 (1.1)        | 6.0 (46.4)           |
| 8.50       | 11.54 (.44)      | 1.85 (.003)      | 2.8 (1.1)        |                      |
| 4.25       | 11.69 (.46)      | 1.80 (.003)      | 2.8 (1.0)        |                      |
| 2.13       | 12.03 (.49)      | 1.95 (.003)      | 2.5 (1.0)        |                      |
| 1.06       | 12.49 (.52)      | 1.90 (.004)      | 2.3 (1.0)        |                      |
| .00        | 24.58            |                  |                  |                      |
| -.02       | 18.71            |                  |                  |                      |
| -.05       | 18.84            |                  |                  |                      |
| -.10       | 14.72            |                  |                  |                      |
| -.23       | 8.28             |                  |                  |                      |
| -.51       | 6.72             |                  |                  |                      |

1530 LT P R O F I L E S <<<  
 NET RADIATION 374.9 ( 15.4) W/M\*\*2  
 GLOBAL RADIATION 581.0 ( 15.7) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 11.22 (.22)      | 1.95 (.004)      | 3.8 (1.0)        | 306.4 (29.5)         |
| 8.50       | 11.50 (.24)      | 1.94 (.004)      | 3.6 (1.0)        |                      |
| 4.25       | 11.74 (.25)      | 1.88 (.003)      | 3.6 (1.0)        |                      |
| 2.13       | 12.17 (.23)      | 2.04 (.004)      | 3.3 (.9)         |                      |
| 1.06       | 12.82 (.27)      | 2.02 (.004)      | 3.1 (.9)         |                      |
| .00        | 24.99            |                  |                  |                      |
| -.02       | 19.13            |                  |                  |                      |
| -.05       | 18.50            |                  |                  |                      |
| -.10       | 14.85            |                  |                  |                      |
| -.23       | 8.44             |                  |                  |                      |
| -.51       | 6.72             |                  |                  |                      |

&gt;&gt;&gt; 80-05-11 1600 LT S Y N O P &lt;&lt;&lt;

| CLOUDS        |        |          |    | BASE (M)               |      | VISIBILITY |  | WEATHER |  |
|---------------|--------|----------|----|------------------------|------|------------|--|---------|--|
| N             | LOW    | MID-HIGH | CI | 2250                   | 5000 | (KM)       |  |         |  |
| 3/8           | 1/8 CU |          |    |                        |      | >20        |  |         |  |
| PRESSURE (MB) |        |          |    | GEOSTROPHIC WIND (M/S) |      | QFE        |  | QFF     |  |
| 1023.4        | 1032.1 | .6       | .1 |                        |      |            |  |         |  |

1600 LT P R O F I L E S <<<  
 NET RADIATION 313.6 ( 13.4) W/M\*\*2  
 GLOBAL RADIATION 507.5 ( 14.9) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 11.07 (.20)      | 2.21 (.002)      | 4.8 (1.1)        | 295.7 (14.5)         |
| 8.50       | 11.36 (.26)      | 2.18 (.002)      | 4.5 (1.1)        |                      |
| 4.25       | 11.65 (.30)      | 2.13 (.002)      | 4.4 (1.1)        |                      |
| 2.13       | 12.02 (.28)      | 2.29 (.002)      | 4.0 (1.1)        |                      |
| 1.06       | 12.68 (.27)      | 2.28 (.002)      | 3.7 (1.0)        |                      |
| .00        | 23.26            |                  |                  |                      |
| -.02       | 18.75            |                  |                  |                      |
| -.05       | 18.41            |                  |                  |                      |
| -.10       | 14.93            |                  |                  |                      |
| -.23       | 8.62             |                  |                  |                      |
| -.51       | 6.73             |                  |                  |                      |

1630 LT P R O F I L E S <<<  
 NET RADIATION 257.2 ( 24.1) W/M\*\*2  
 GLOBAL RADIATION 439.9 ( 28.2) W/M\*\*2

| HEIGHT (M) | TEMP.(DEG.CENTG) | MIX.RATIO (G/KG) | WIND SPEED (M/S) | WIND DIRECTION (DEG) |
|------------|------------------|------------------|------------------|----------------------|
| 17.00      | 11.07 (.30)      | 2.29 (.002)      | 5.4 (1.3)        | 287.3 (14.7)         |
| 8.50       | 11.35 (.26)      | 2.25 (.002)      | 5.1 (1.3)        |                      |
| 4.25       | 11.59 (.29)      | 2.20 (.002)      | 5.0 (1.3)        |                      |
| 2.13       | 11.98 (.31)      | 2.34 (.002)      | 4.6 (1.2)        |                      |
| 1.06       | 12.62 (.42)      | 2.31 (.002)      | 4.2 (1.1)        |                      |
| .00        | 21.47            |                  |                  |                      |
| -.02       | 18.14            |                  |                  |                      |
| -.05       | 17.86            |                  |                  |                      |
| -.10       | 14.95            |                  |                  |                      |
| -.23       | 8.78             |                  |                  |                      |
| -.51       | 6.73             |                  |                  |                      |



## APPENDIX B

### Rawinsonde data

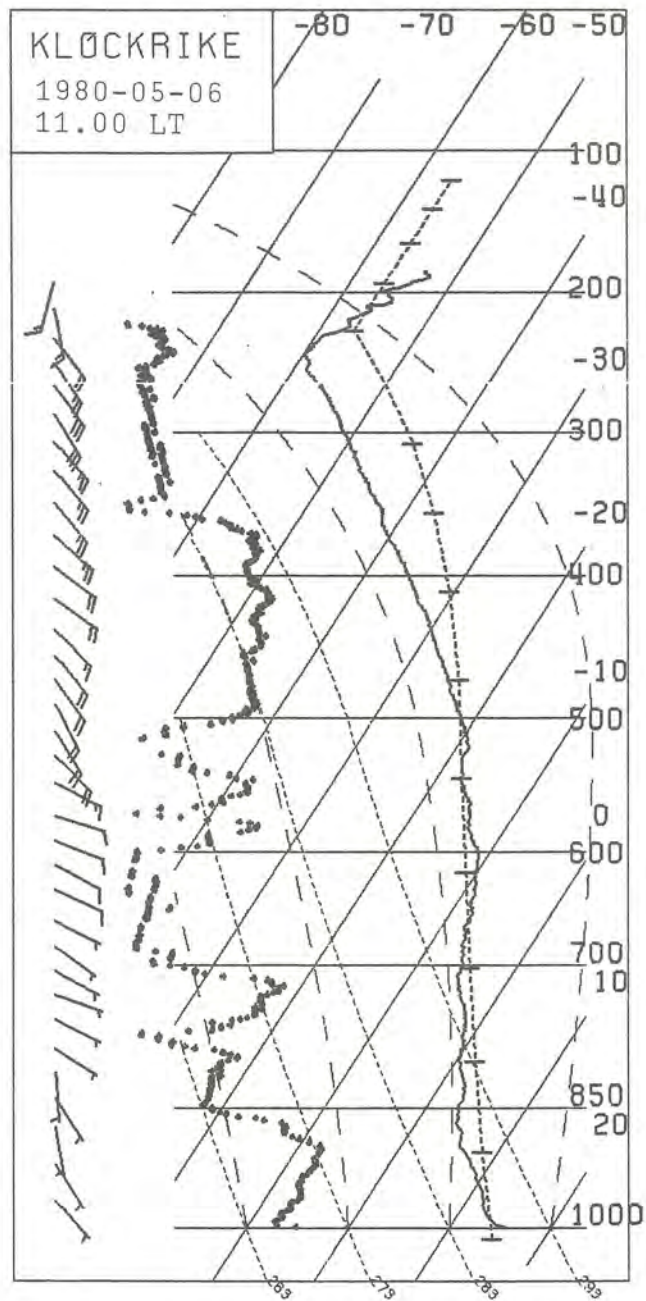
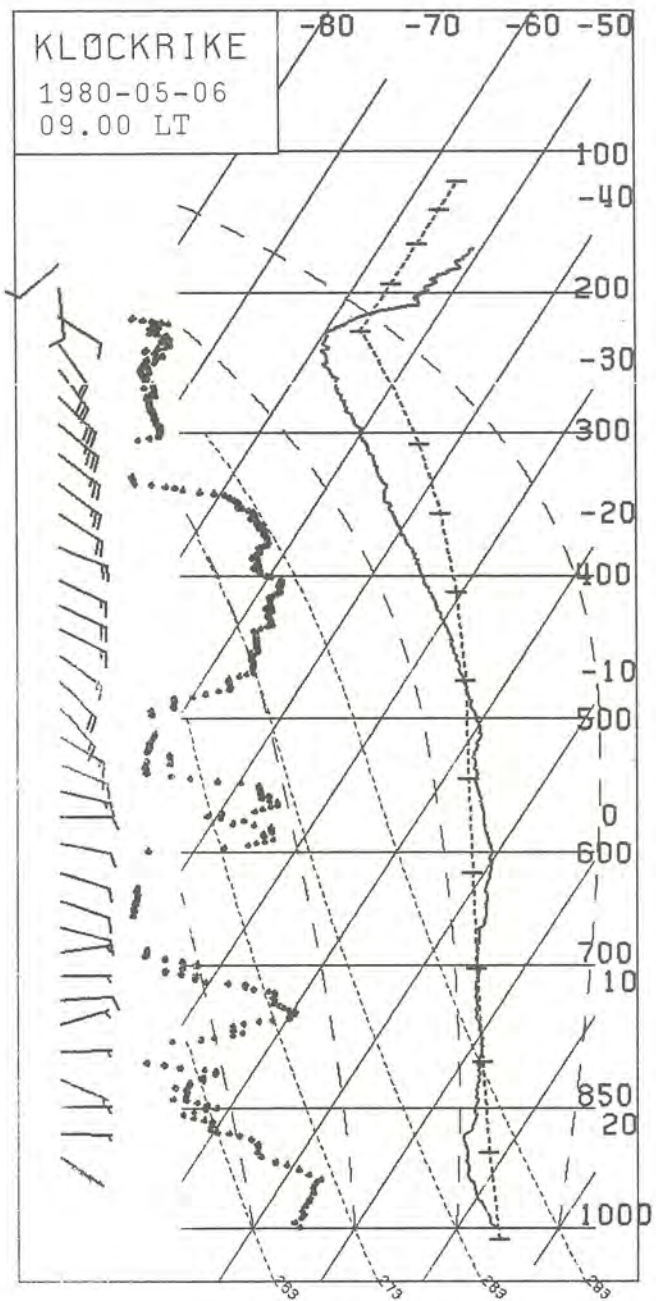
The diagrams, divided in two parts, contain data from all rawinsonde launches during 1980-05-06 0900 LT to 1980-05-11 1400 LT. There were in principle one launch each third hour. For temperature, pressure and humidity, one value is given for every 10 sec, equivalent with a resolution of 25-50 metres. Due to a tape error, the soundings 1980-05-10 1400 and 2300 LT are manually evaluated. (This gives a much lower resolution in the vertical).

### Tropospheric plots

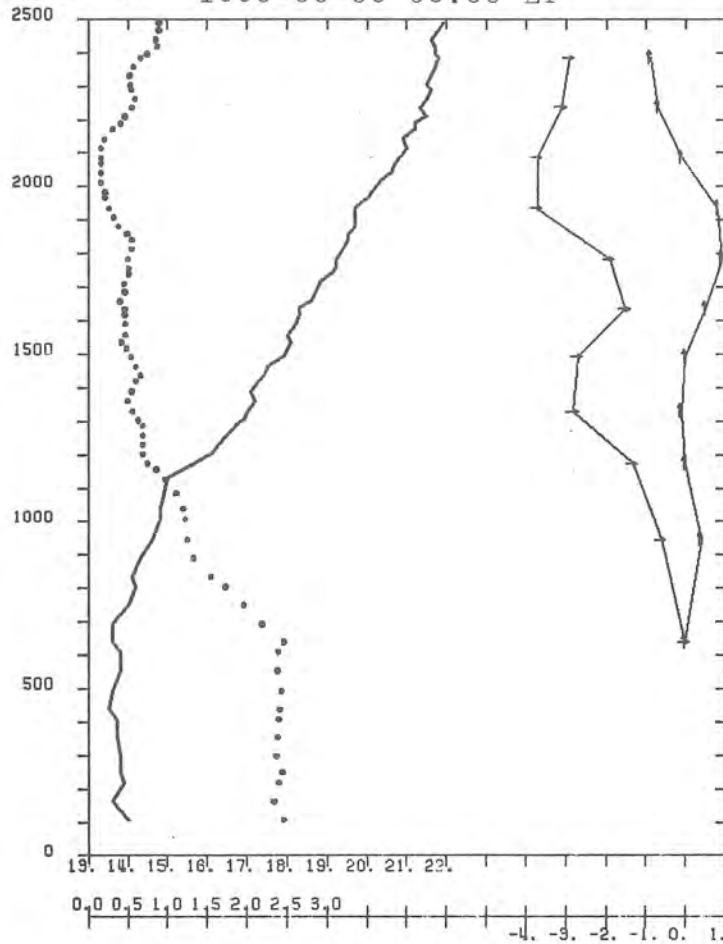
The first part contains data plotted in thermodynamic diagrams throughout the whole troposphere. Usual wind symbols are used, showing the speed in knots. In the diagrams temperature and dewpoint temperature (deg centigrade) are plotted, together with the dry and pseudo-adiabatic lapse rates and the ICAO standard.

### ABL linear plots

In the second part, potential temperature and mixing ratio  $q$  (g/kg) are plotted together with the  $u(\rightarrow)$  and  $v(\uparrow)$ -components up to 2.5 km height. For convenience, some of the diagrams show negative  $v$ -component, indicated by  $(\downarrow)$ . The data-points for the wind-components are joint by straight lines.

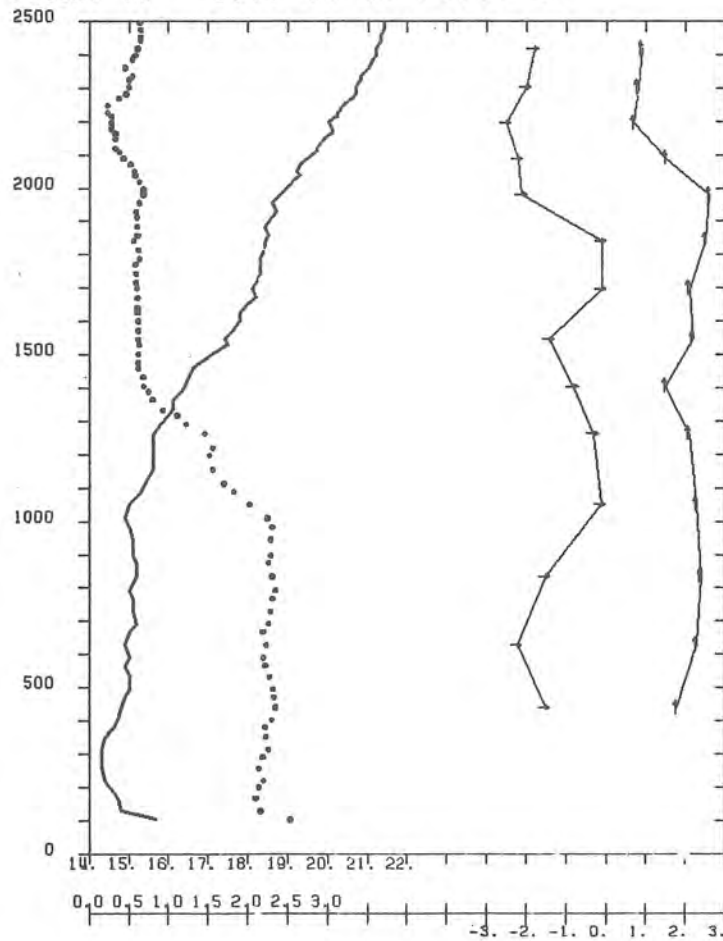


HEIGHT (M) 1980-05-06 09.00 LT

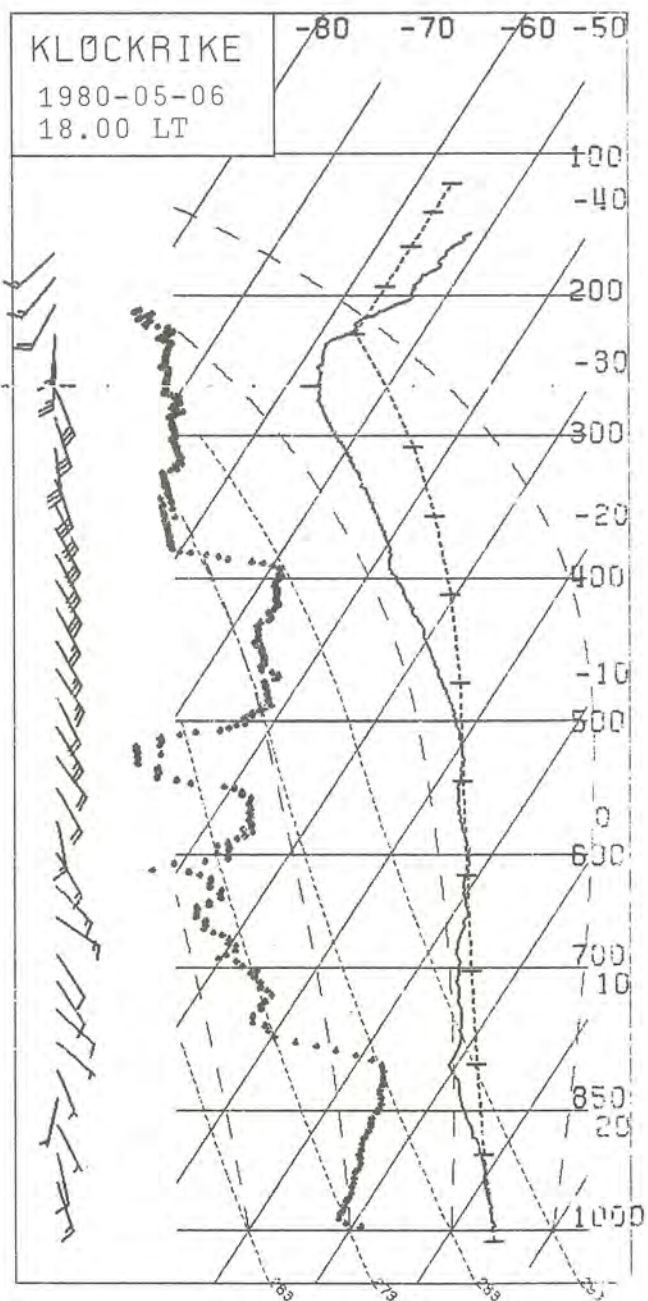
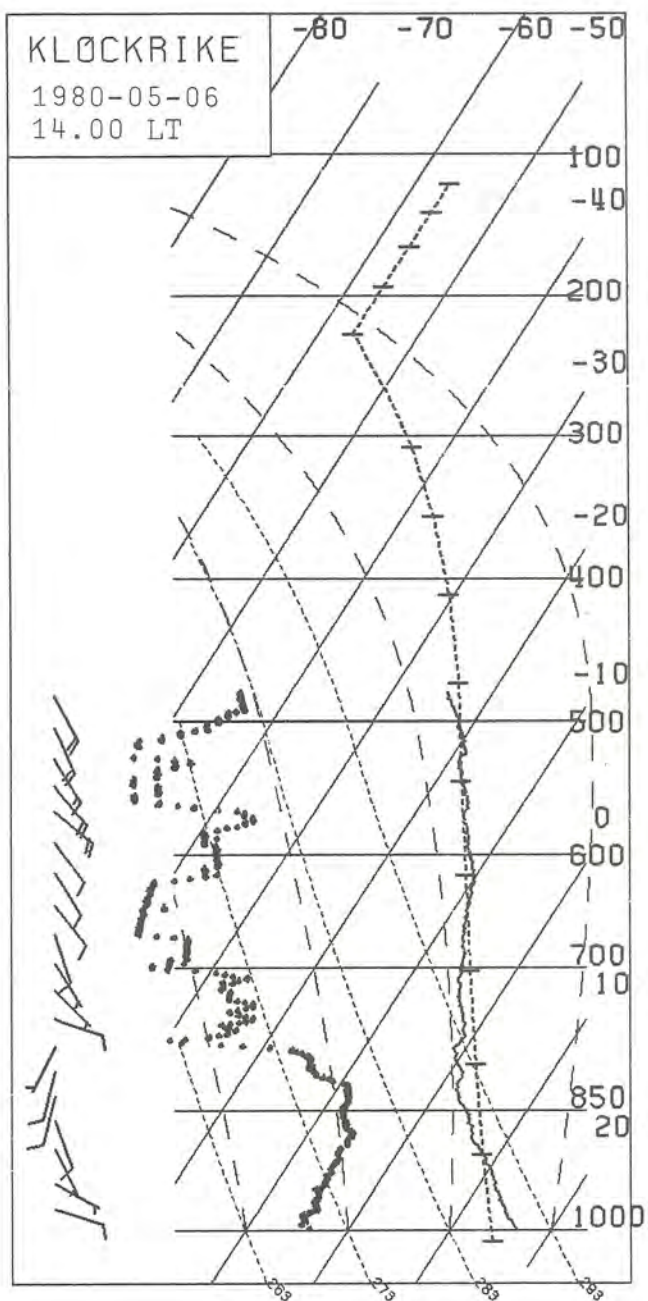


(DEG.C)  
(G/KG)  
(M/S)

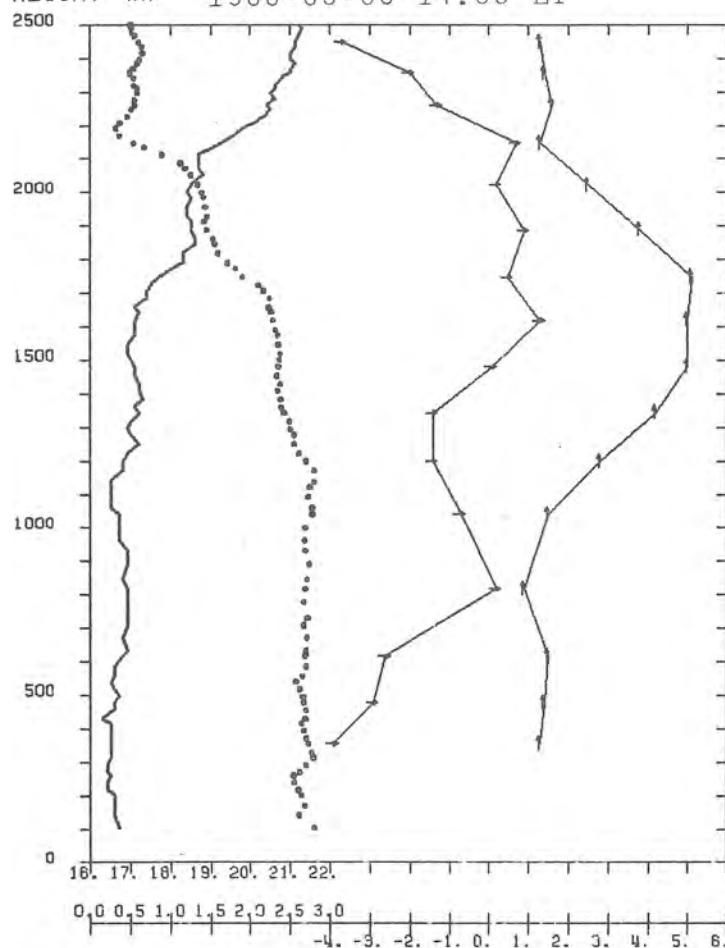
HEIGHT (M) 1980-05-06 11.00 LT



(DEG.C)  
(G/KG)  
(M/S)

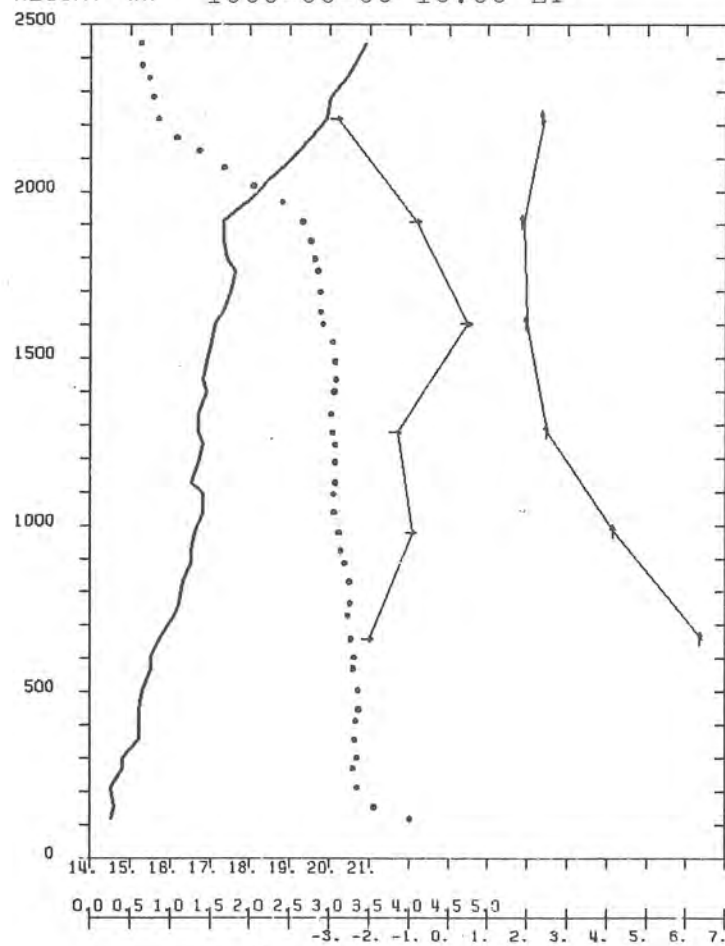


HEIGHT (M) 1980-05-06 14.00 LT

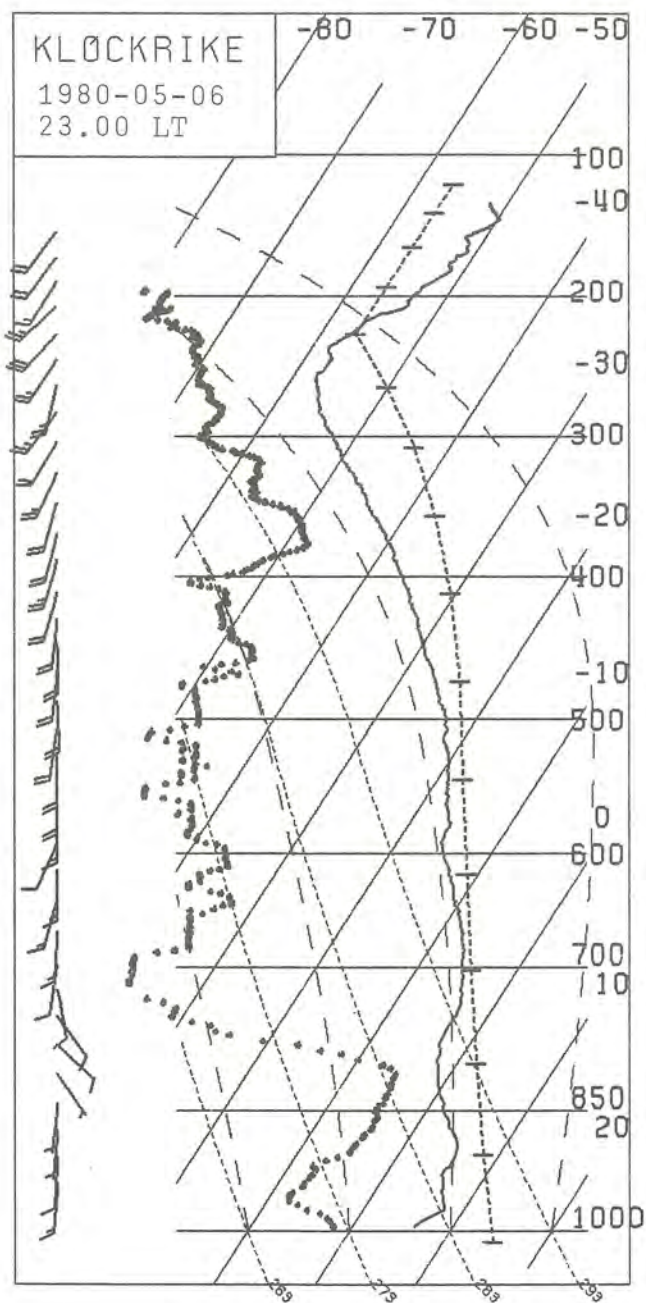
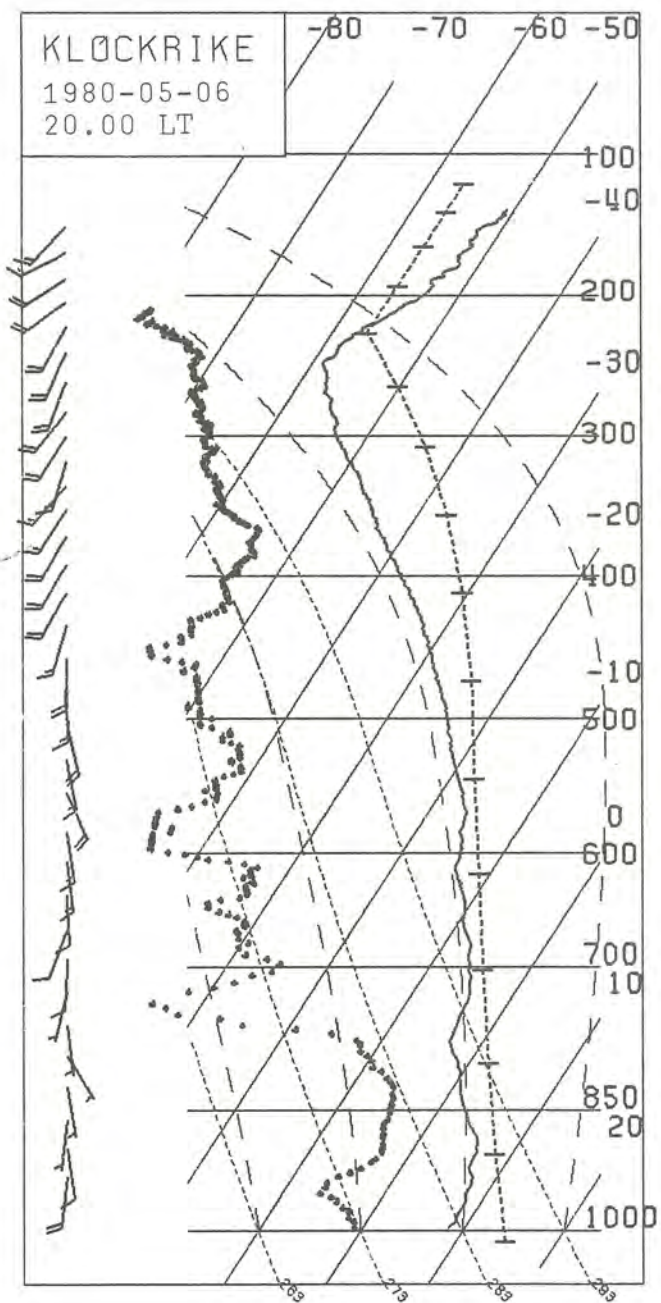


(DEG. C)  
(G/KG)  
(M/S)

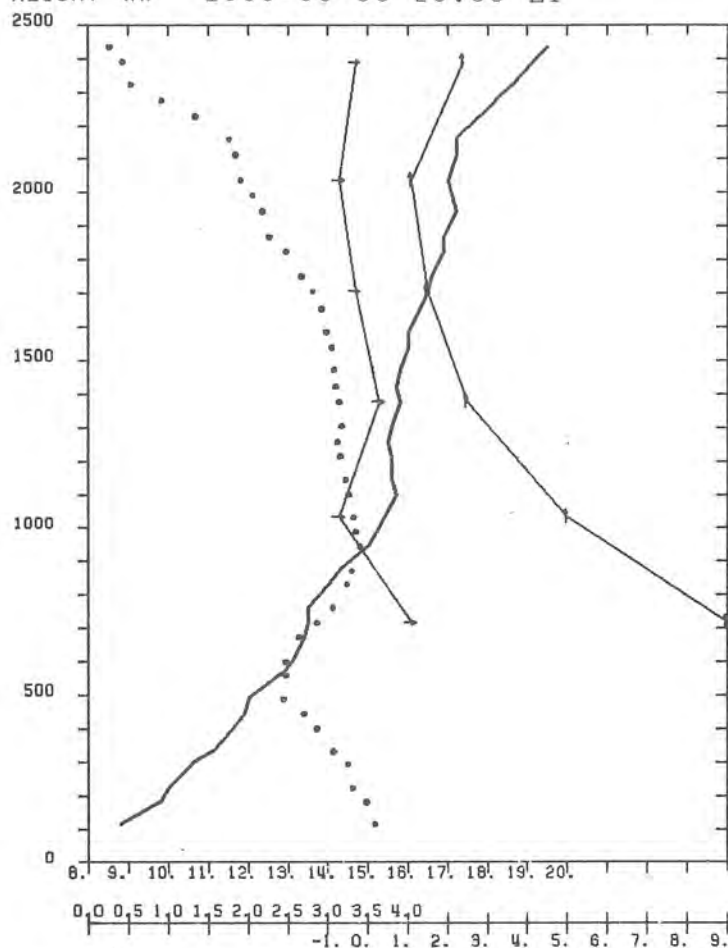
HEIGHT (M) 1980-05-06 18.00 LT



(DEG. C)  
(G/KG)  
(M/S)

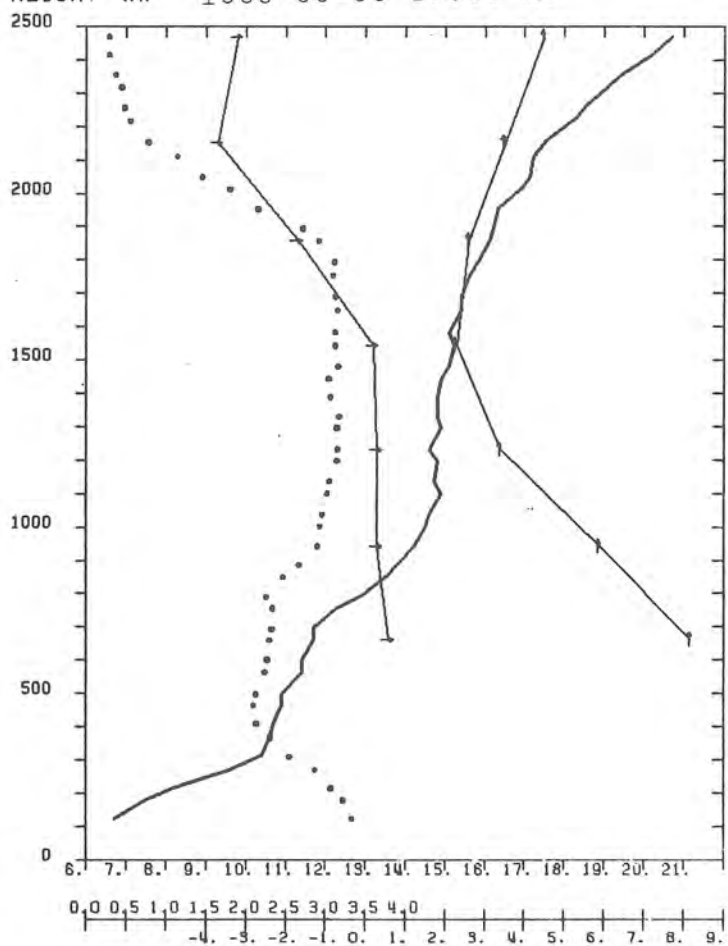


HEIGHT (M) 1980-05-06 20.00 LT

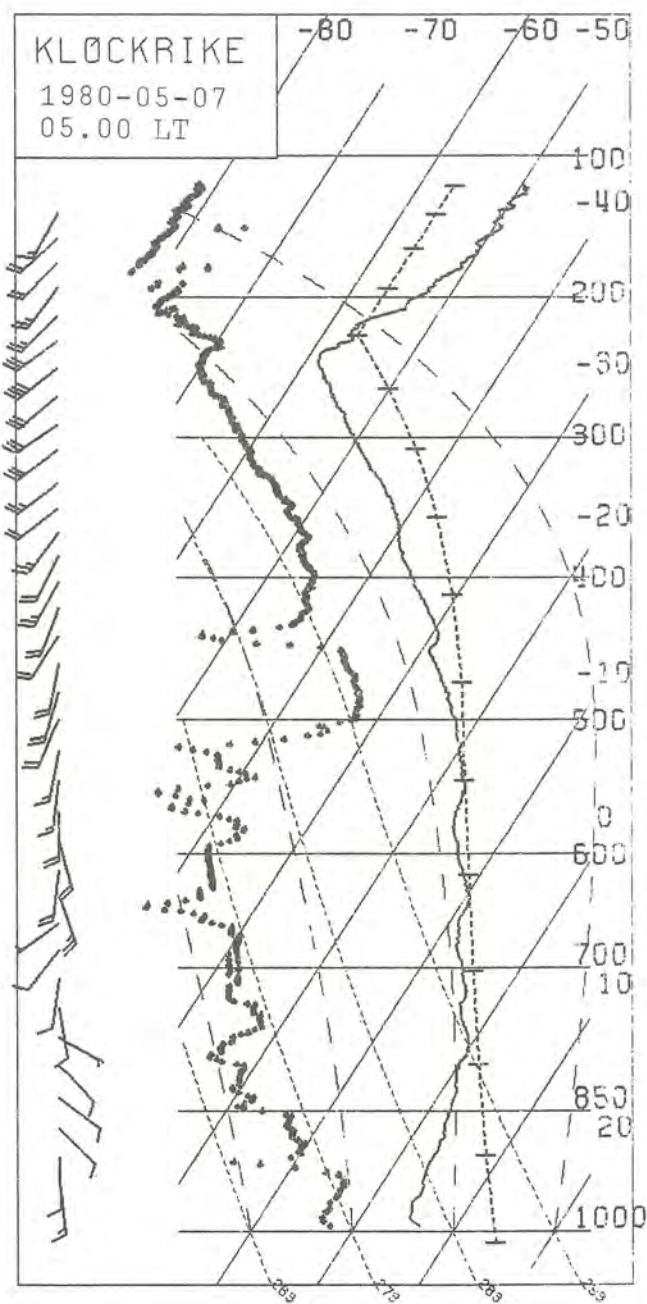
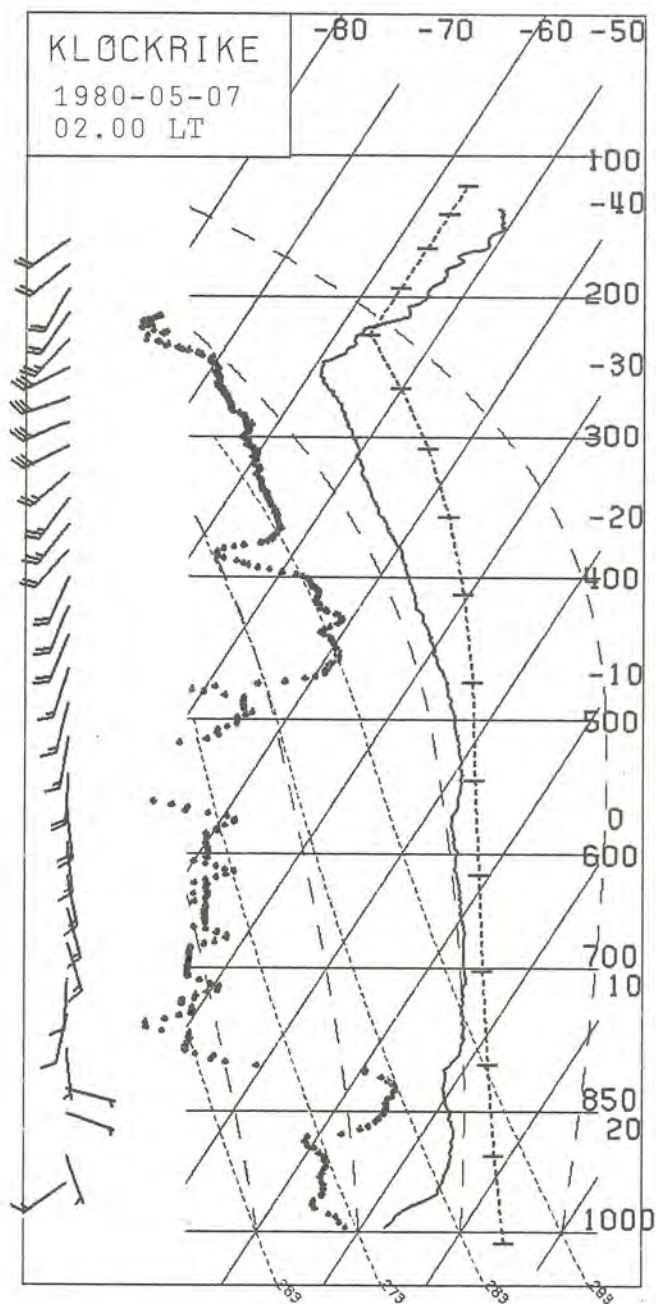


(DEG.C)  
(G/KG)  
(M/S)

HEIGHT (M) 1980-05-06 23.00 LT

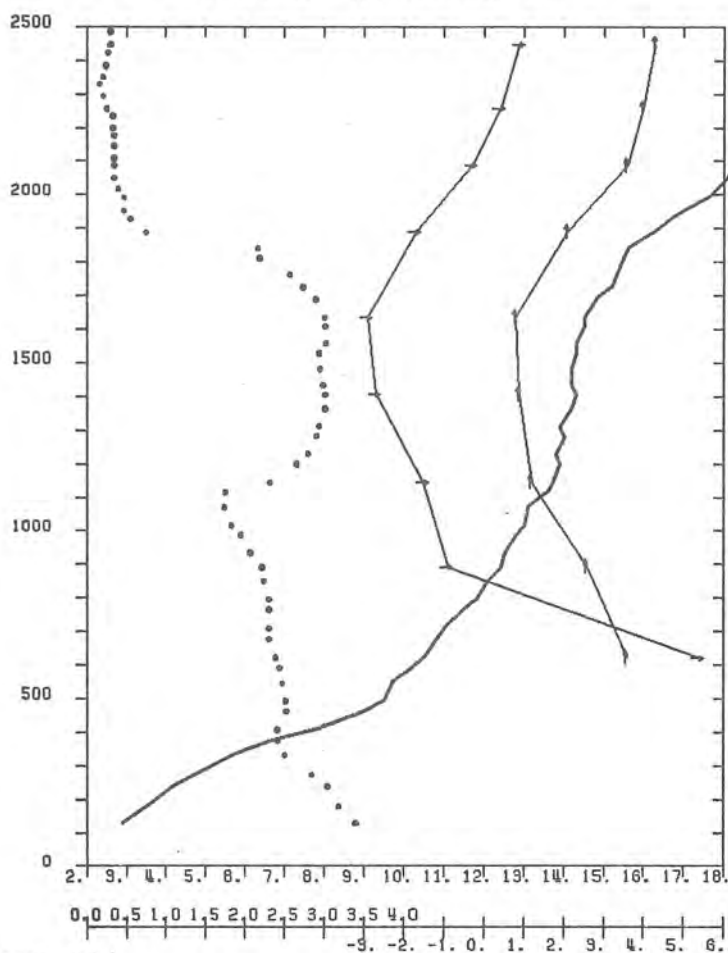


(DEG.C)  
(G/KG)  
(M/S)



HEIGHT (M)

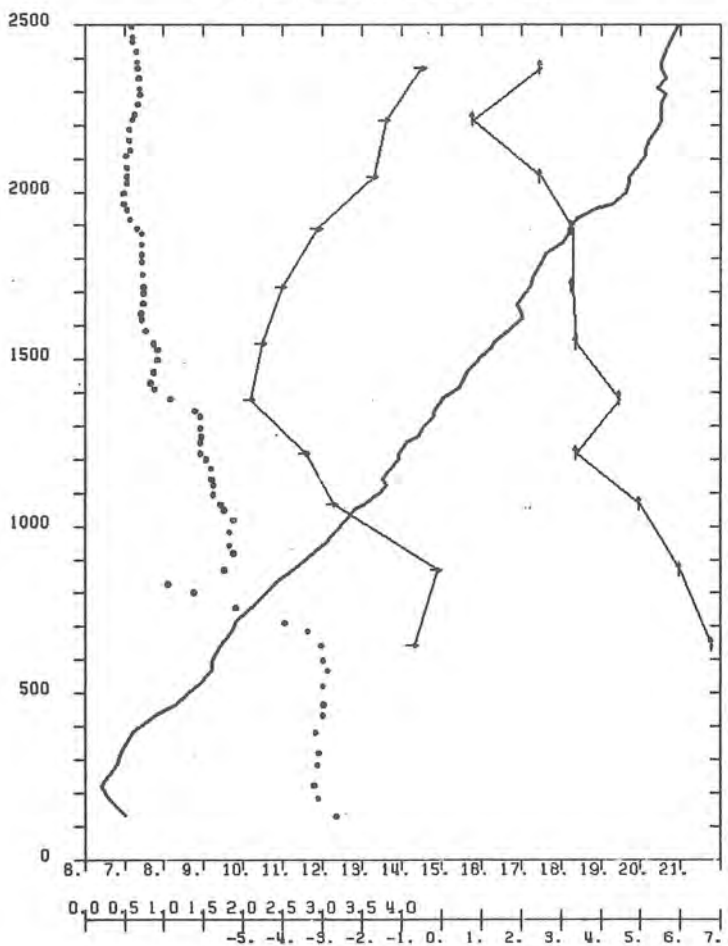
1980-05-07 02.00 LT



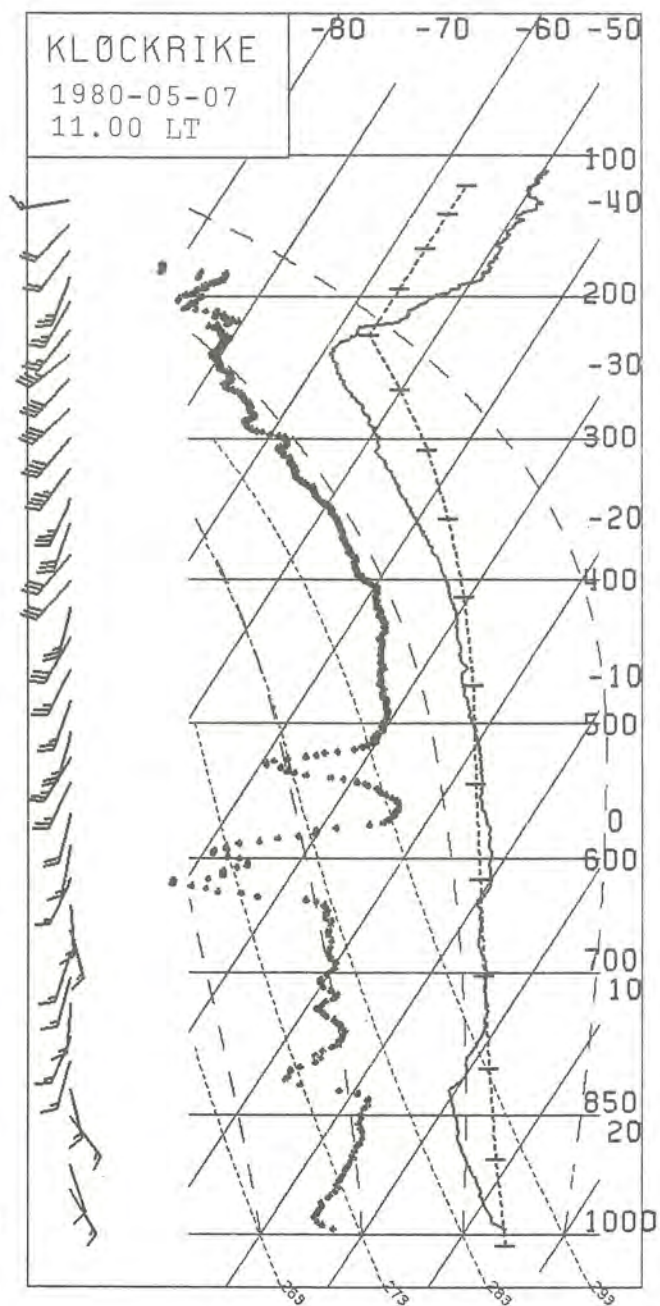
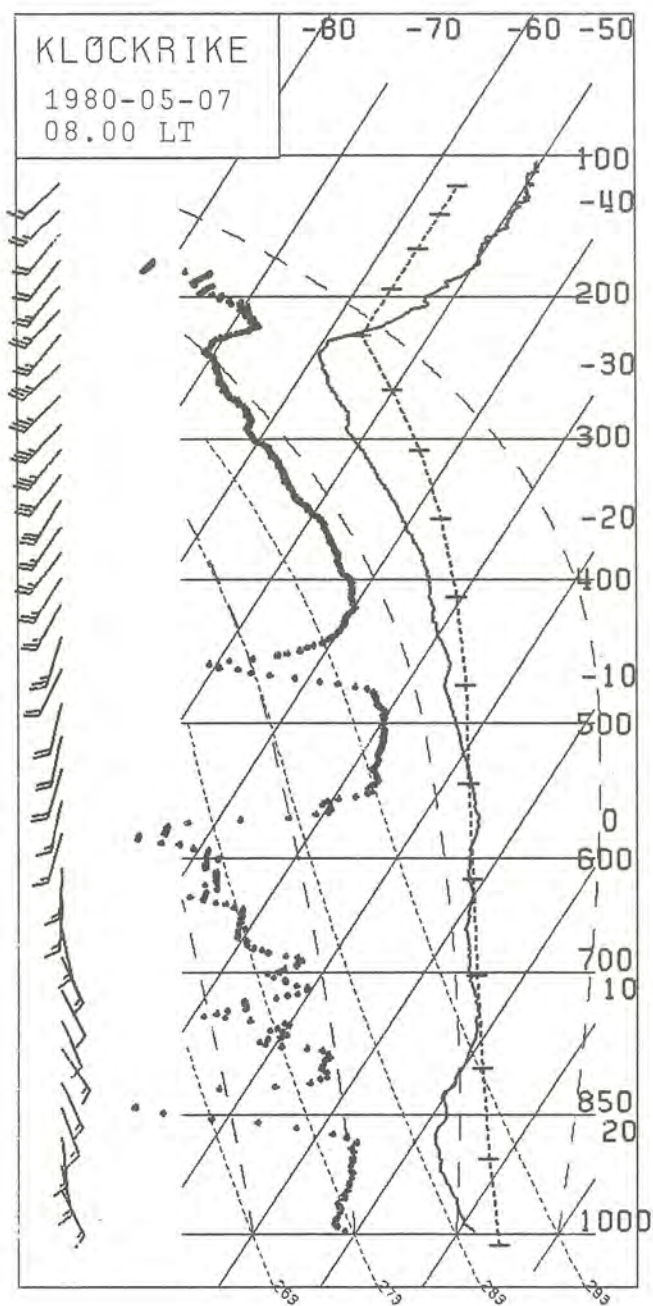
(DEG.C)  
(G/KG)  
(M/S)

HEIGHT (M)

1980-05-07 05.00 LT

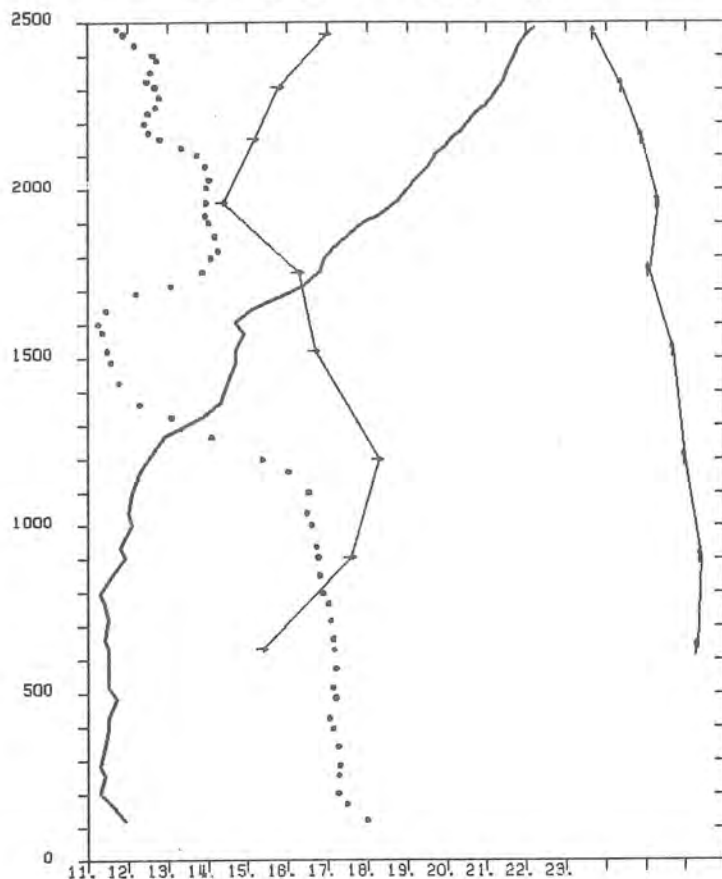


(DEG.C)  
(G/KG)  
(M/S)



HEIGHT (M)

1980-05-07 08.00 LT



11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.

0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0

-5. -4. -3. -2. -1. 0. 1. 2. 3. 4. 5. 6. 7. 8.

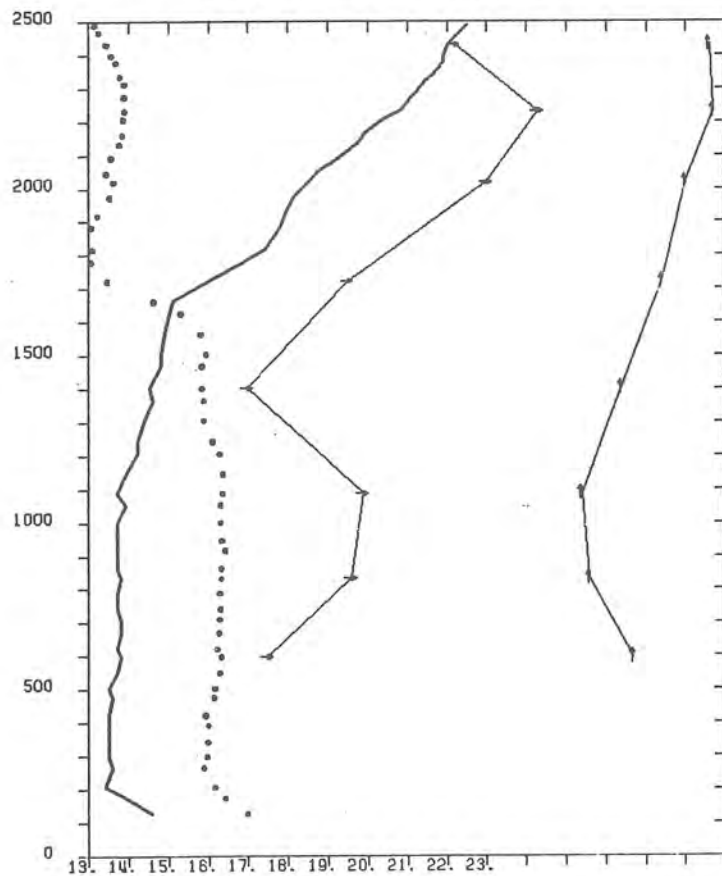
(DEG.C)

(G/KG)

(M/S)

HEIGHT (M)

1980-05-07 11.00 LT



13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.

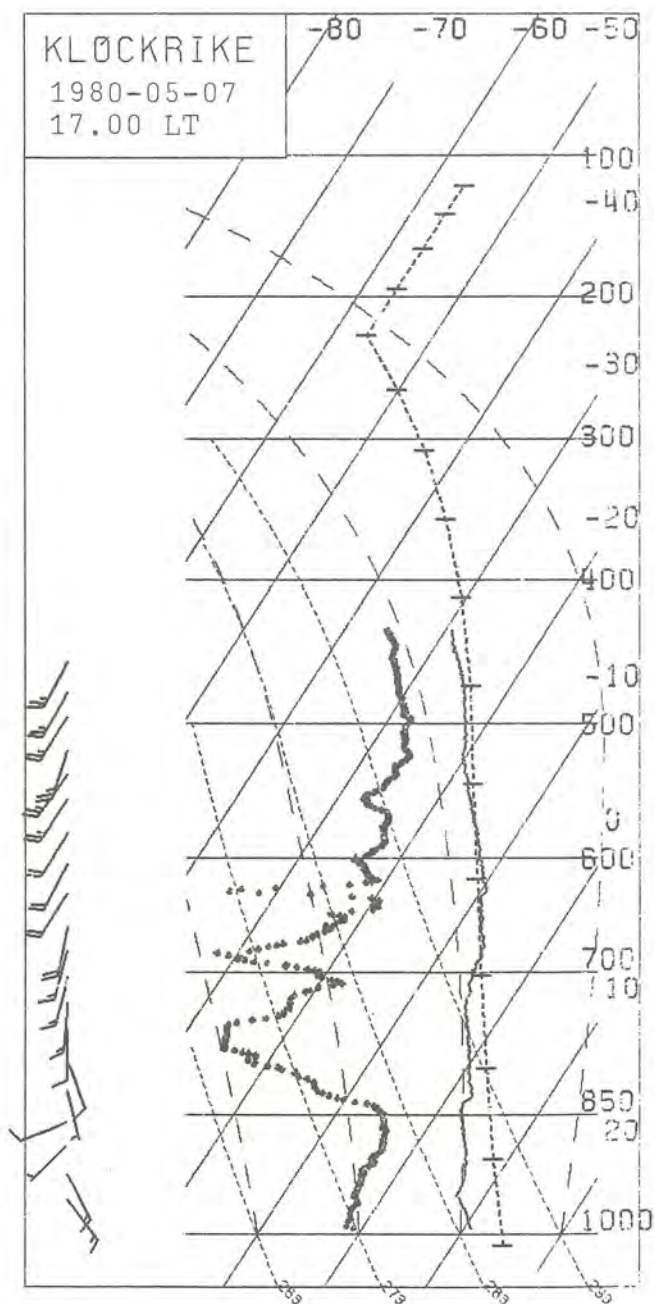
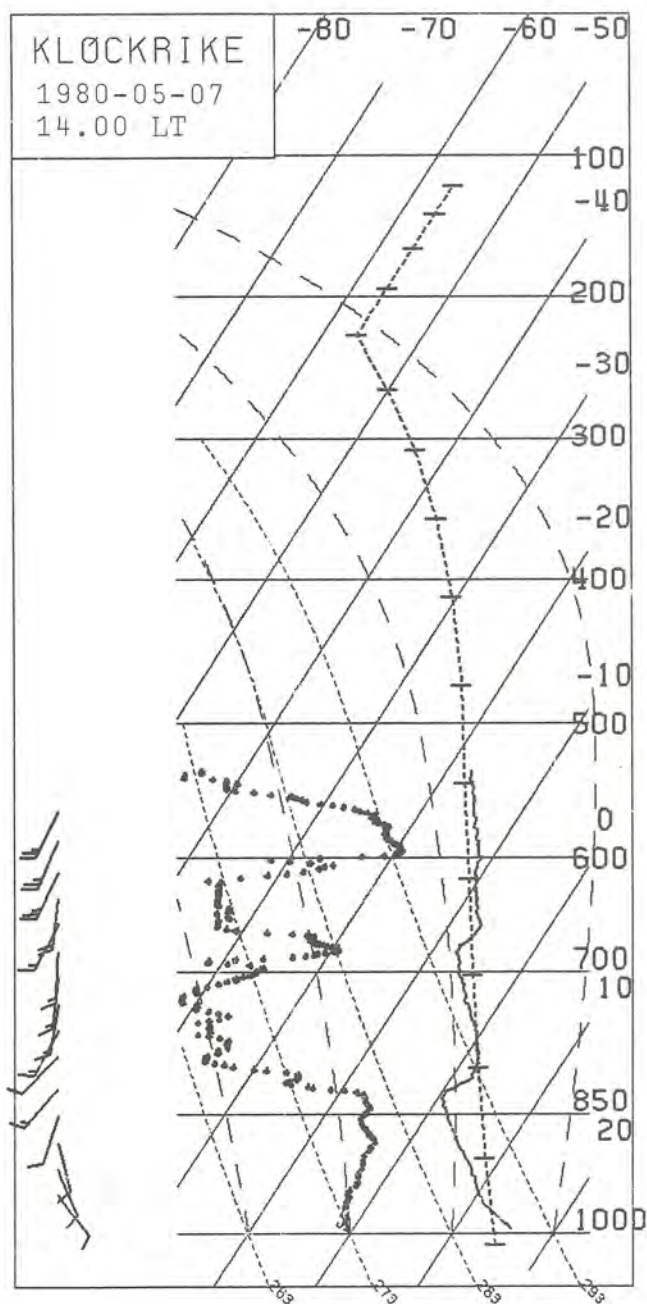
1.0 1.5 2.0 2.5 3.0

-4. -3. -2. -1. 0. 1. 2. 3. 4. 5. 6. 7. 8.

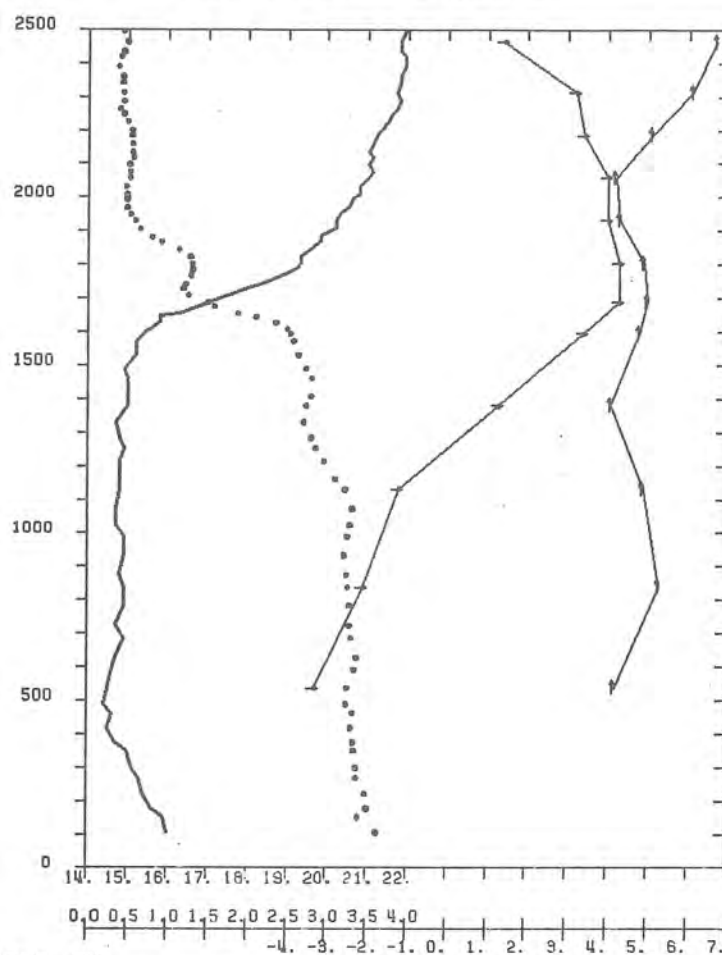
(DEG.C)

(G/KG)

(M/S)

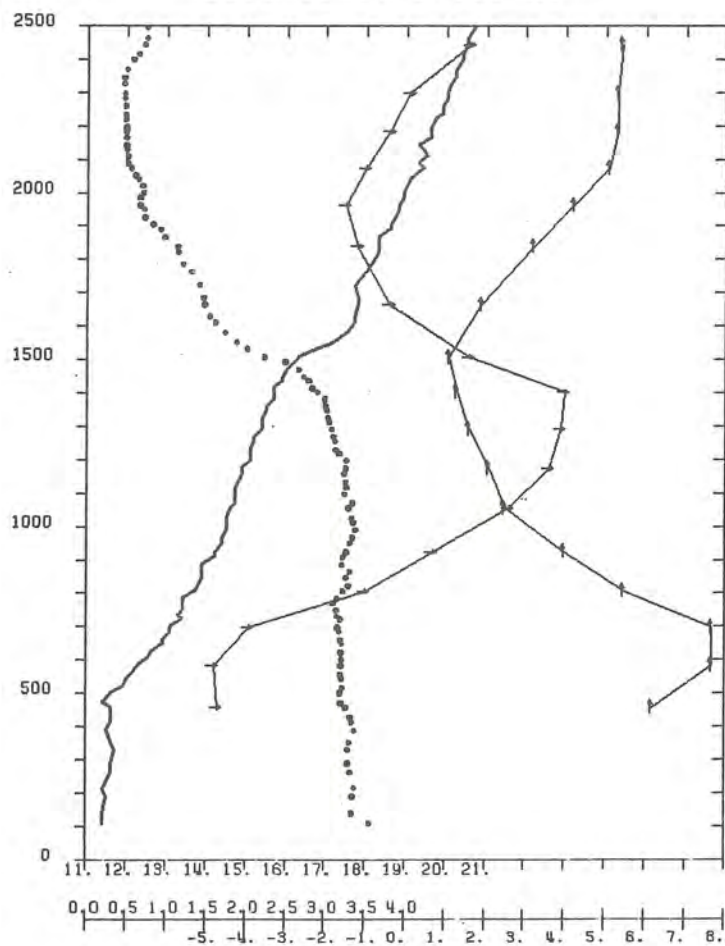


HEIGHT (M) 1980-05-07 14.00 LT

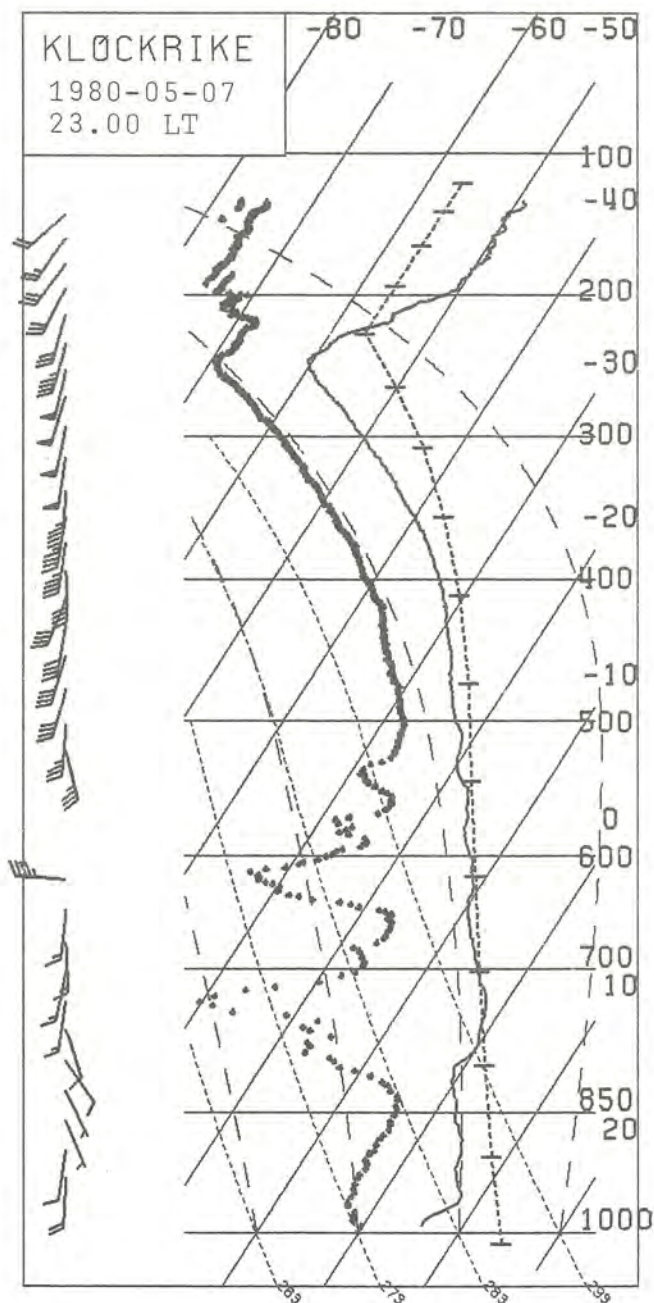
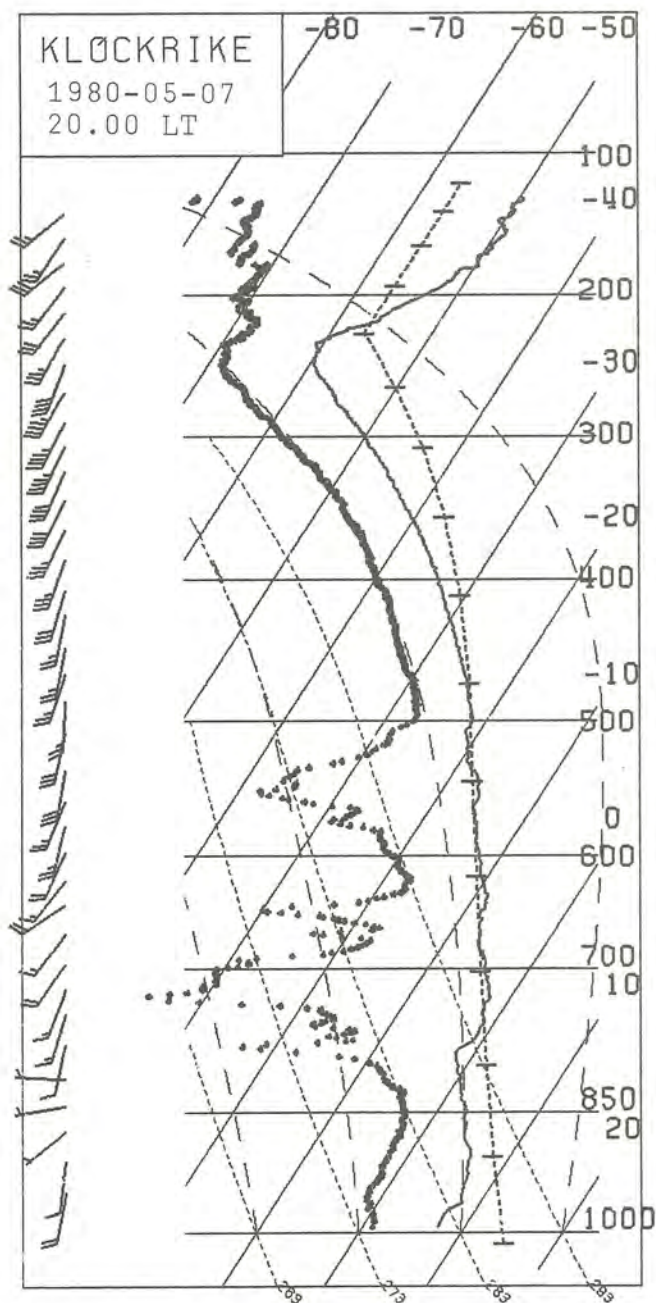


(DEG.C)  
(G/KG)  
(M/S)

HEIGHT (M) 1980-05-07 17.00 LT

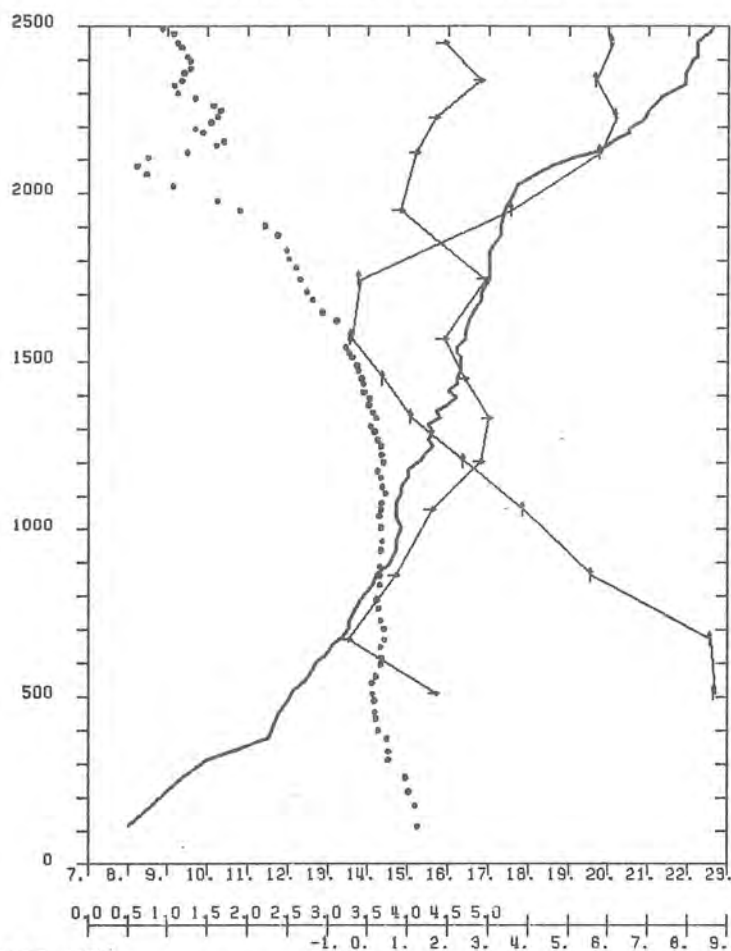


(DEG.C)  
(G/KG)  
(M/S)



HEIGHT (M)

1980-05-07 20.00 LT



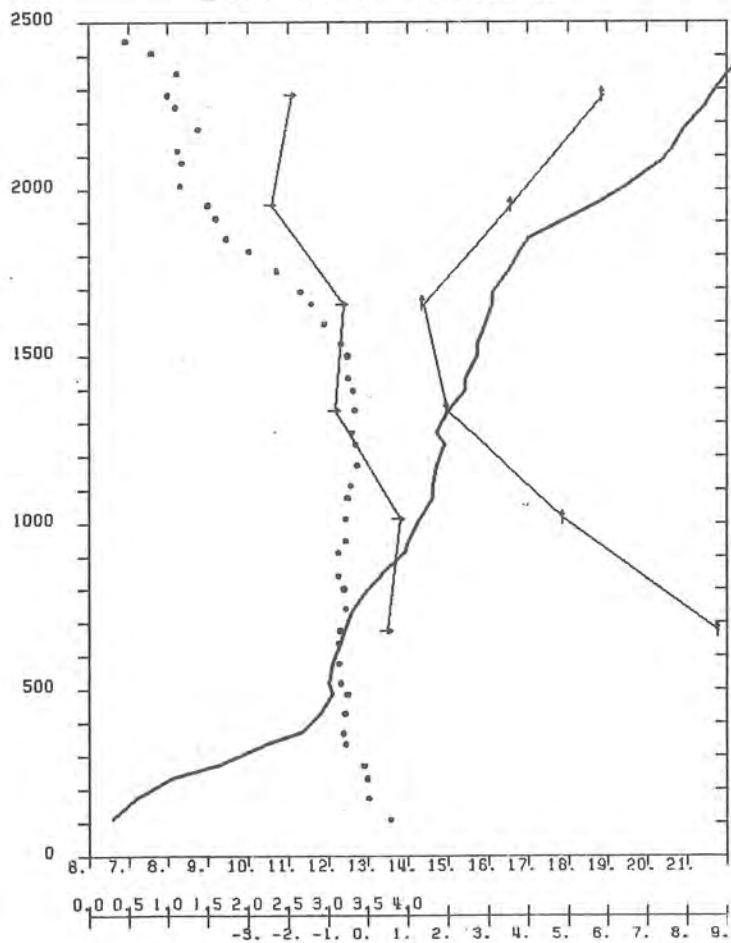
(DEG.C)

(G/KG)

(M/S)

HEIGHT (M)

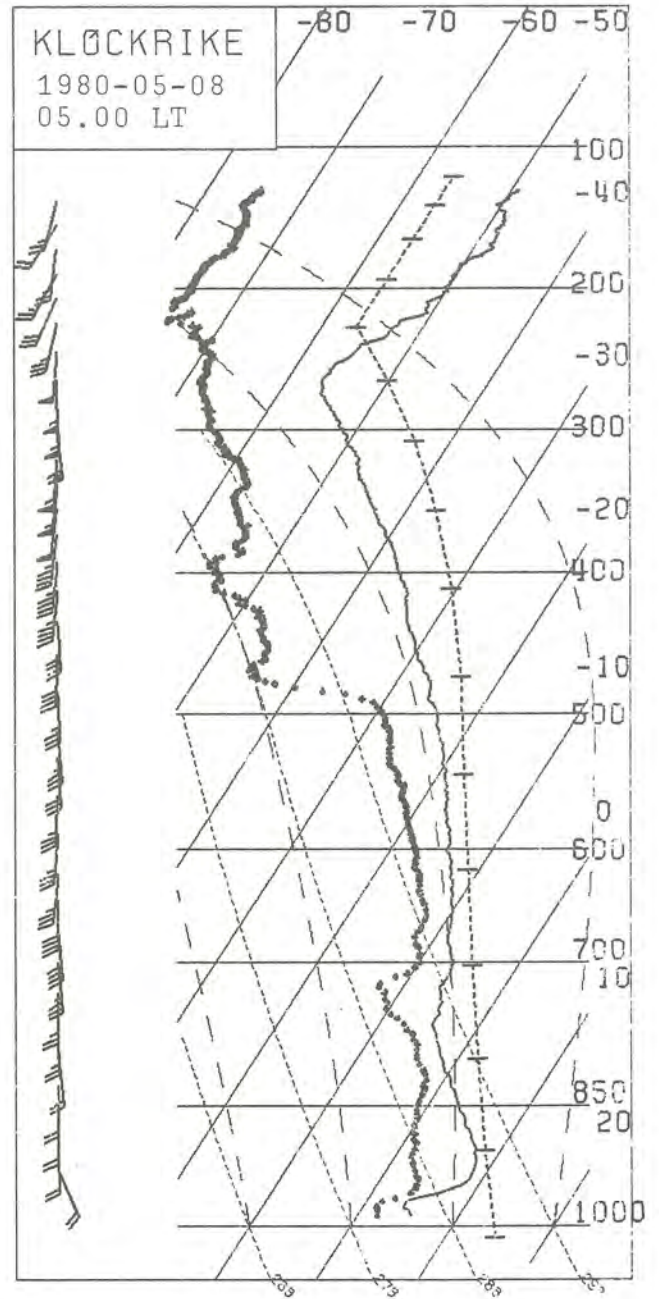
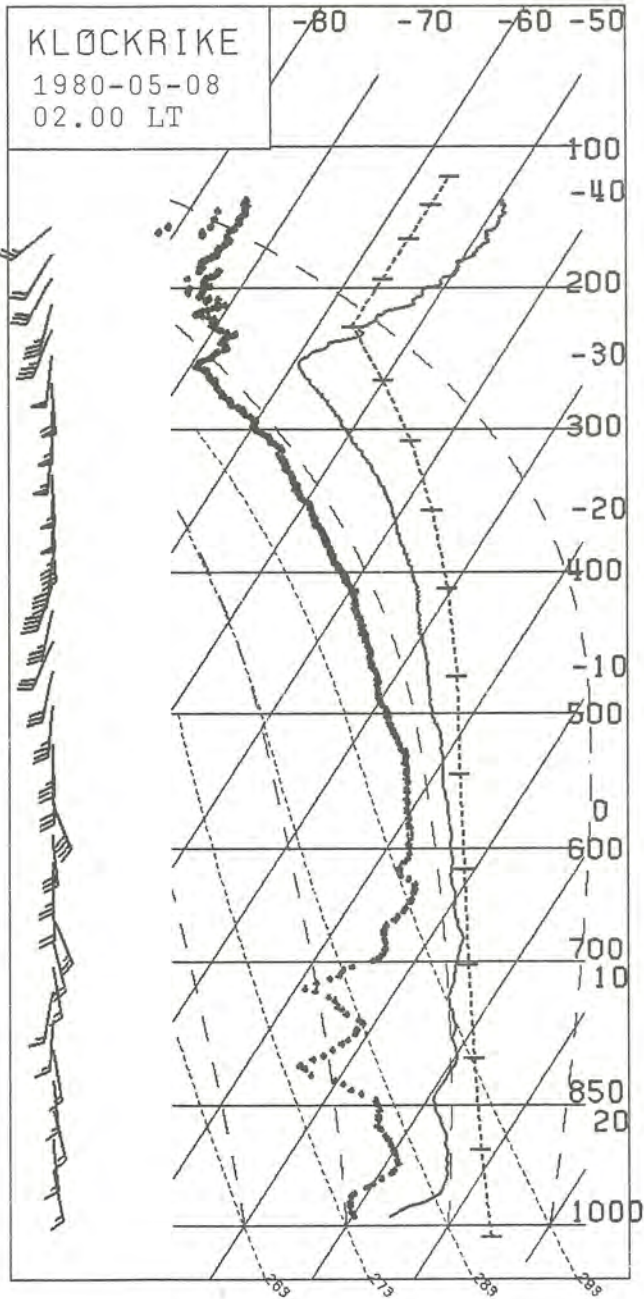
1980-05-07 23.00 LT



(DEG.C)

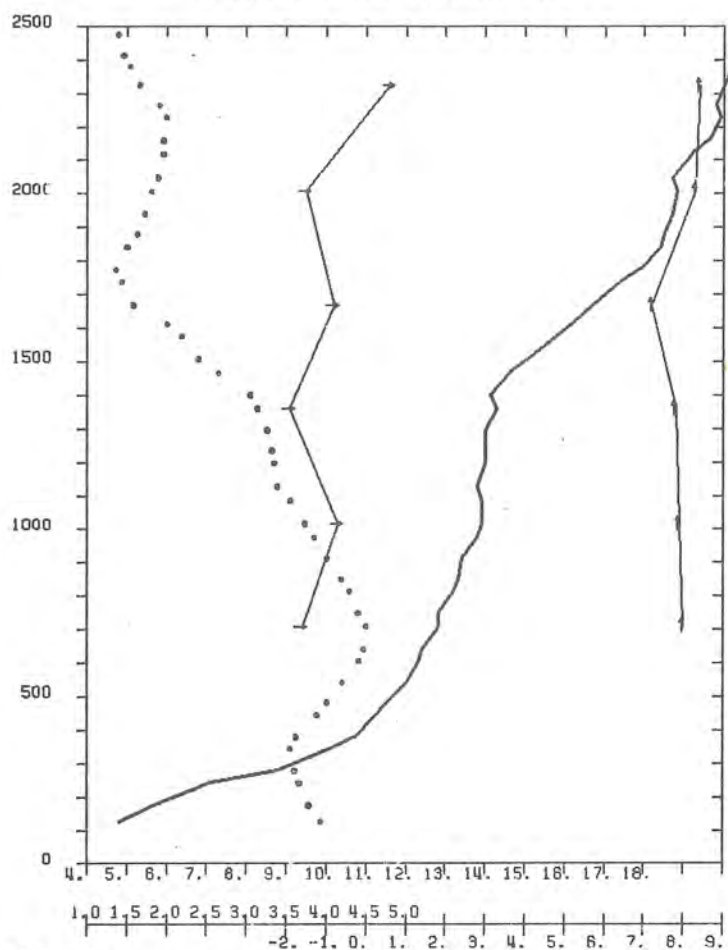
(G/KG)

(M/S)



HEIGHT (M)

1980-05-08 02.00 LT



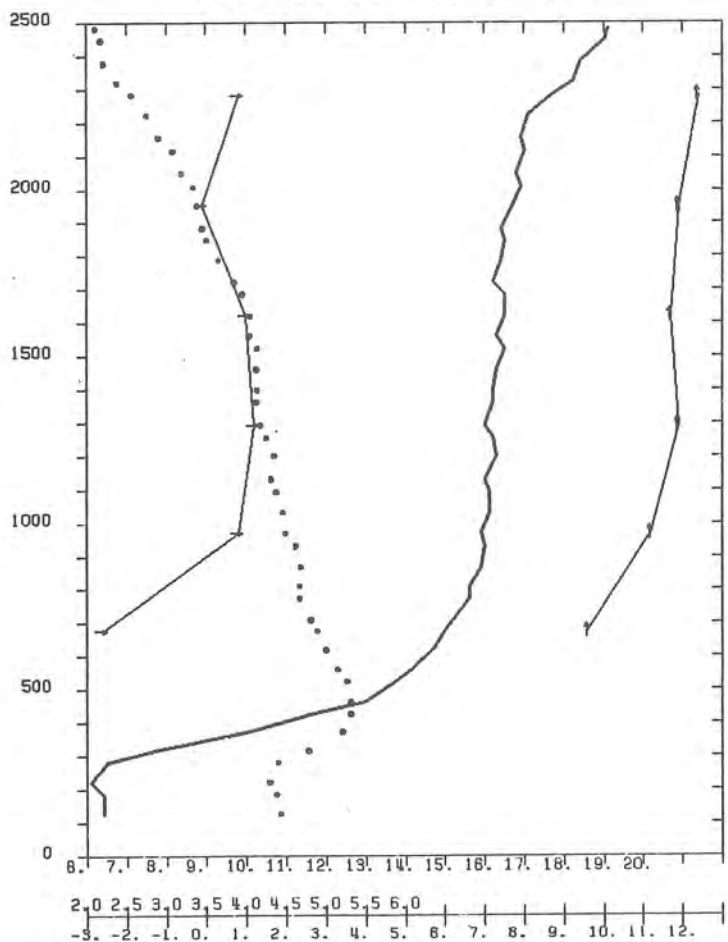
(DEG.C)

(G/KG)

(M/S)

HEIGHT (M)

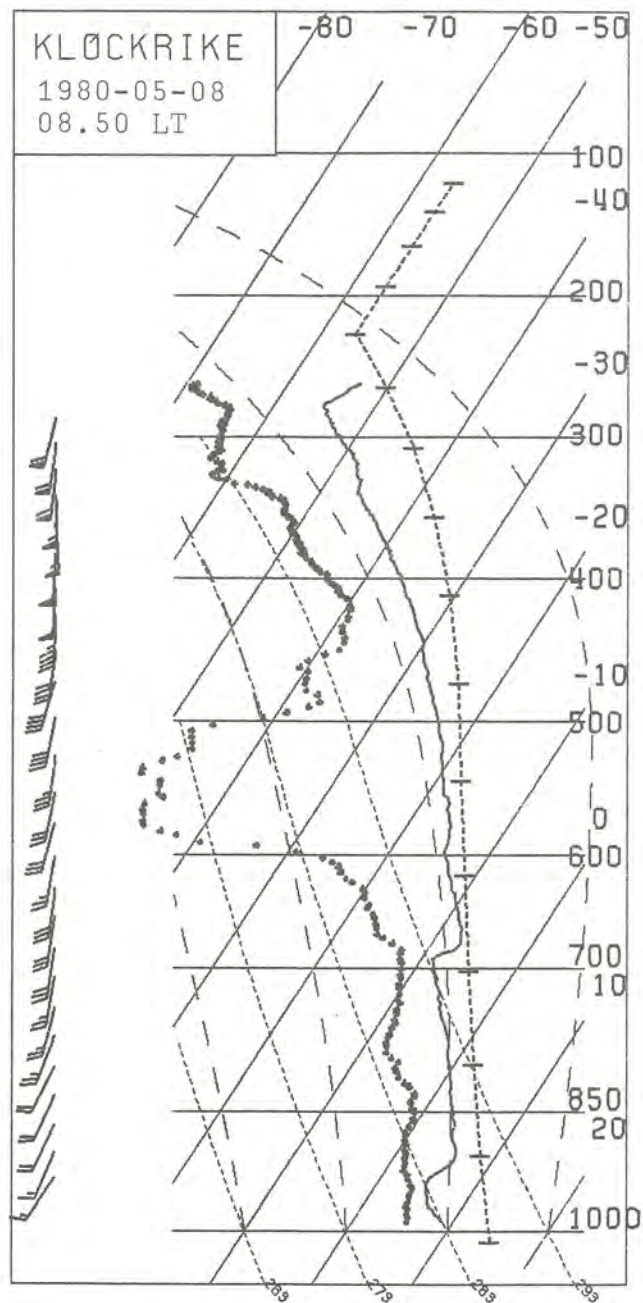
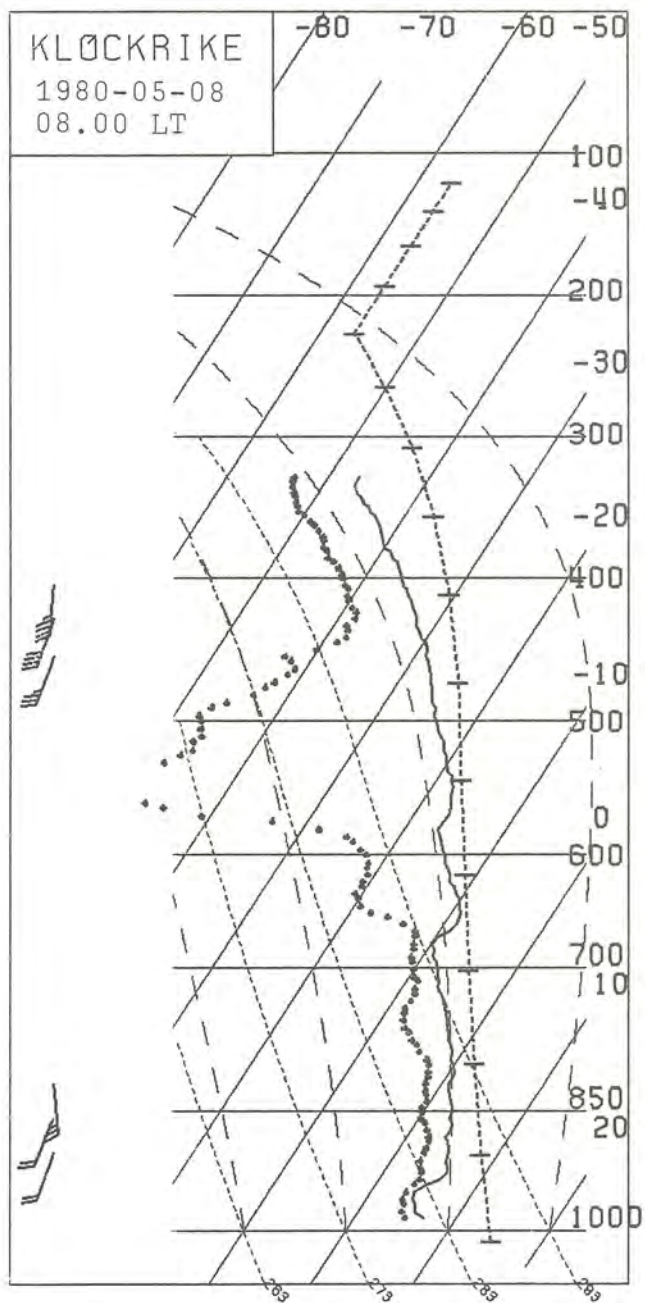
1980-05-08 05.00 LT



(DEG.C)

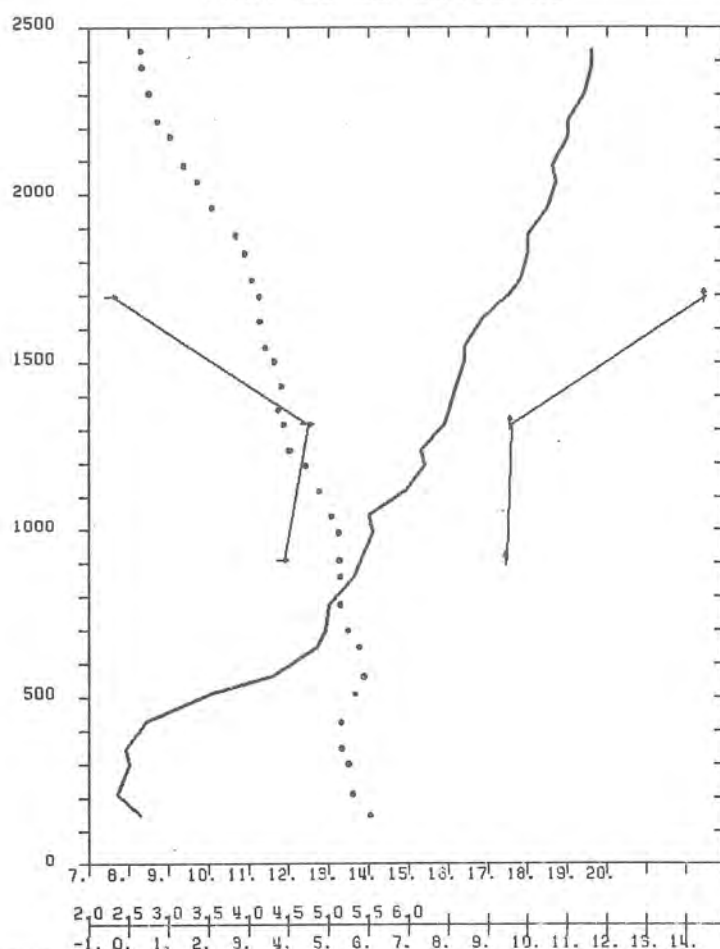
(G/KG)

(M/S)



HEIGHT (M)

1980-05-08 08.00 LT



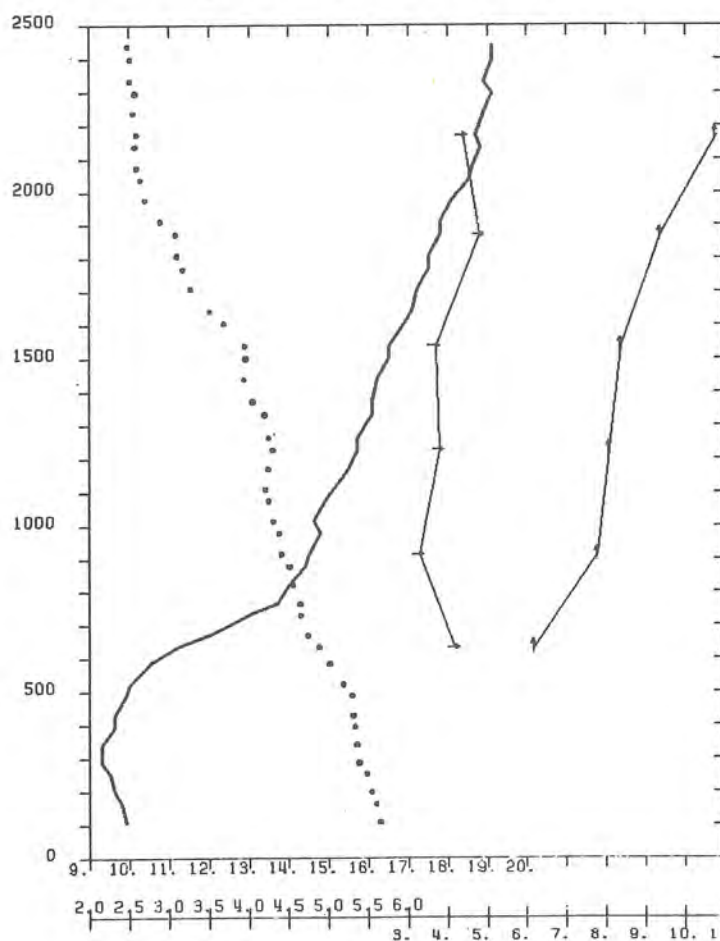
(DEG. C)

(G/KG)

(M/S)

HEIGHT (M)

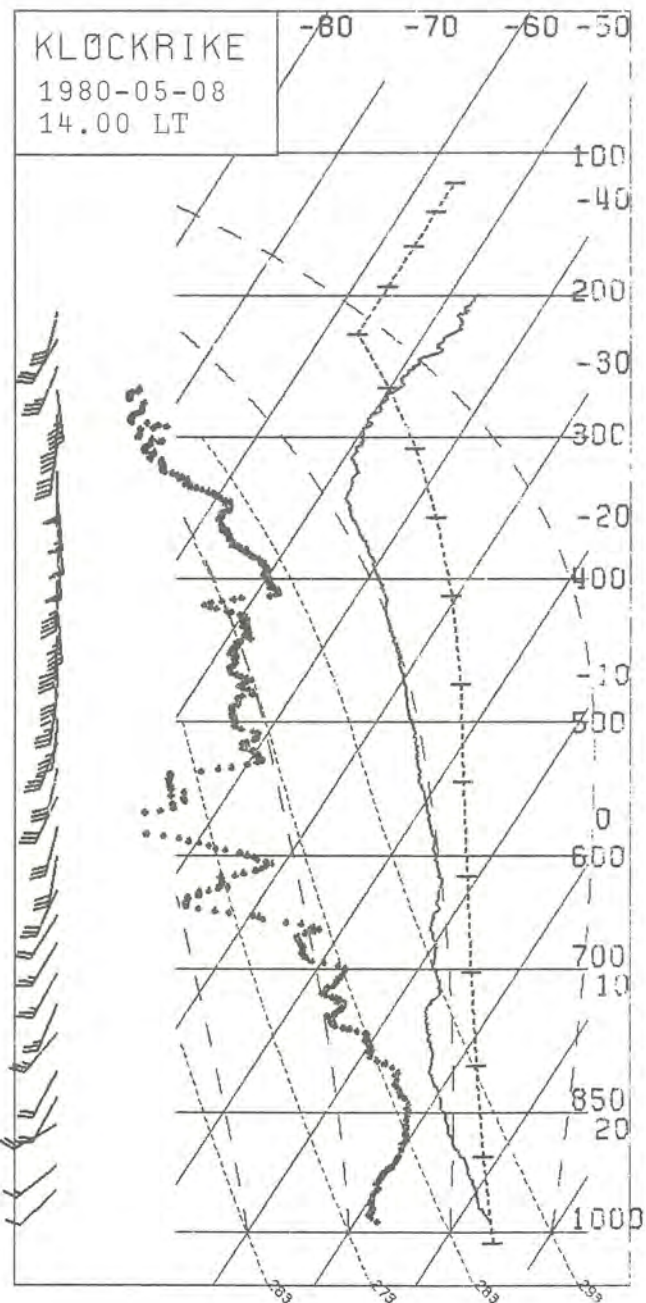
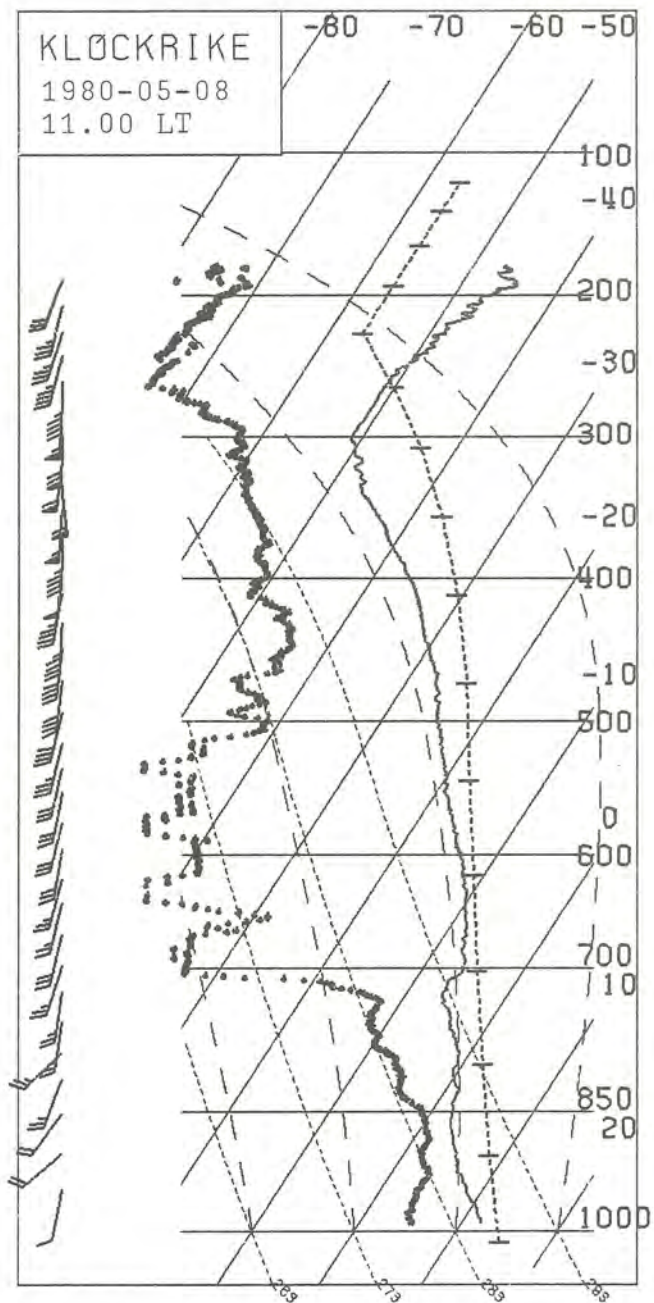
1980-05-08 08.50 LT



(DEG. C)

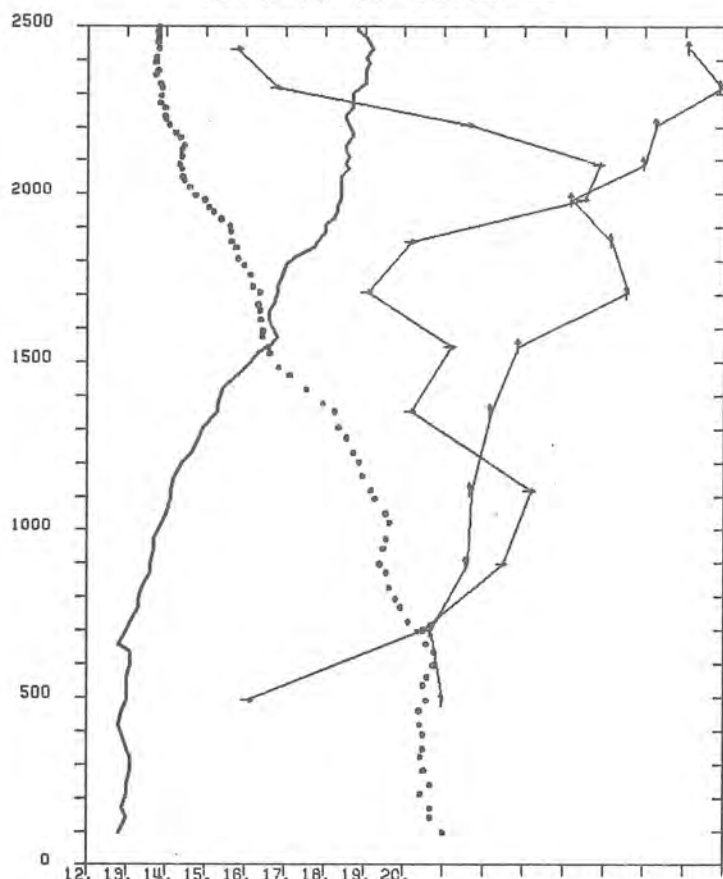
(G/KG)

(M/S)



HEIGHT (M)

1980-05-08 11.00 LT



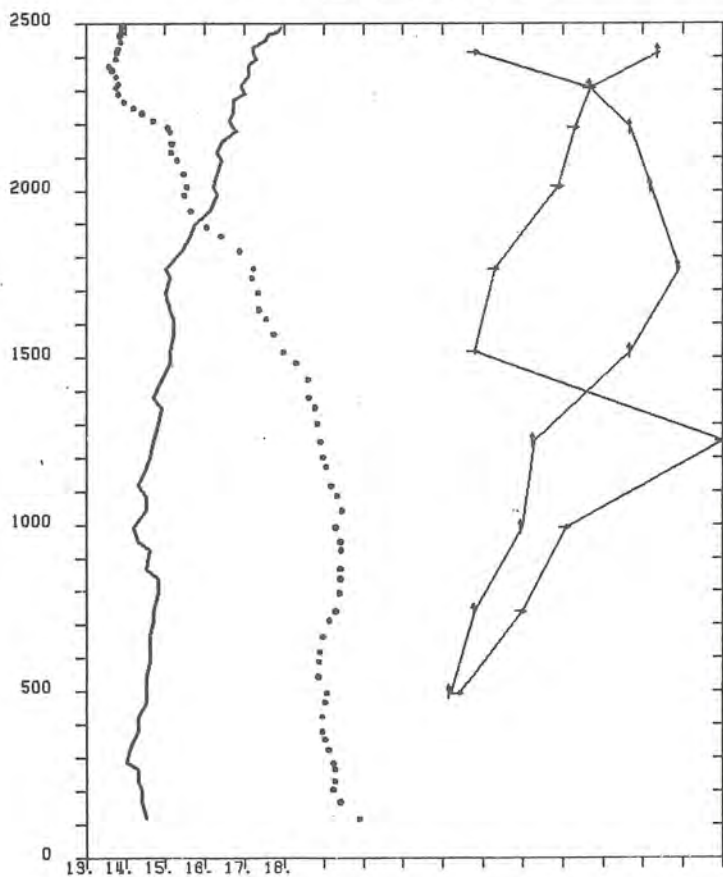
(DEG.C)

(G/KG)

(M/S)

HEIGHT (M)

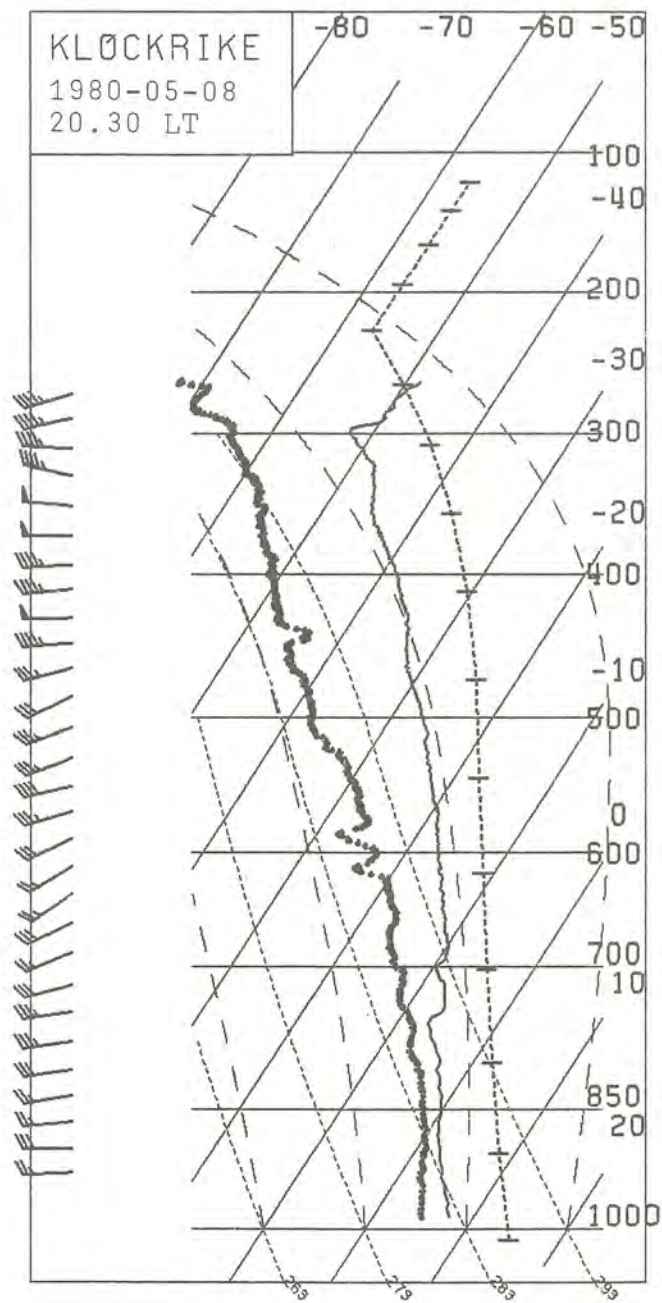
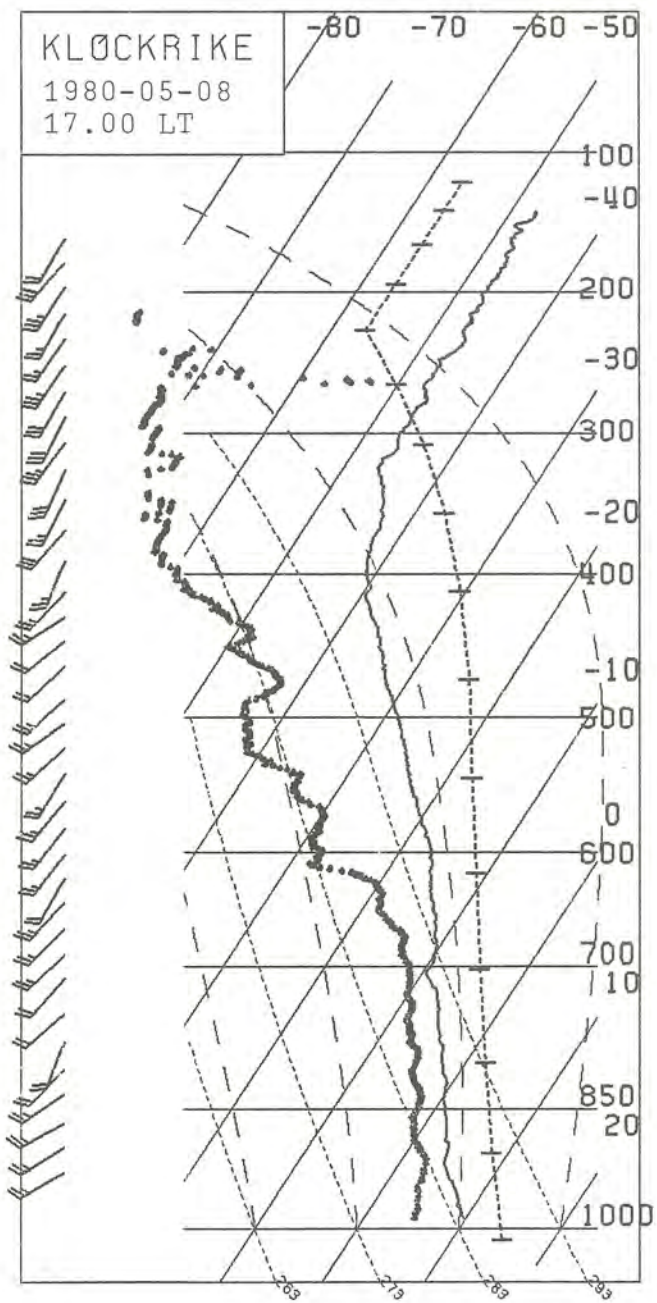
1980-05-08 14.00 LT



(DEG.C)

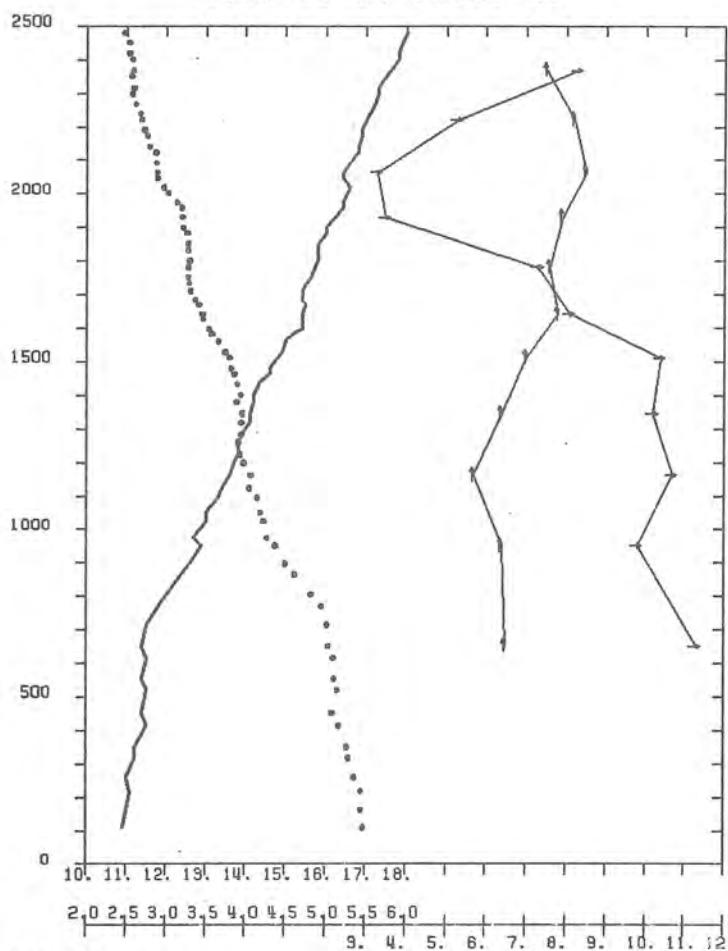
(G/KG)

(M/S)



HEIGHT (M)

1980-05-08 17.00 LT



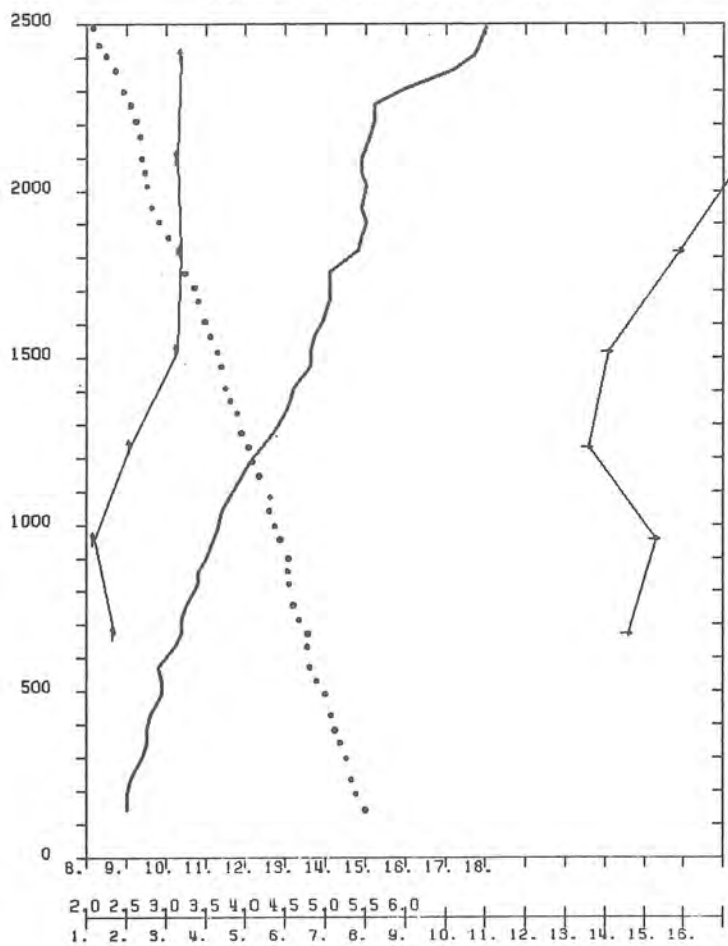
(DEG.C)

(G/KG)

(M/S)

HEIGHT (M)

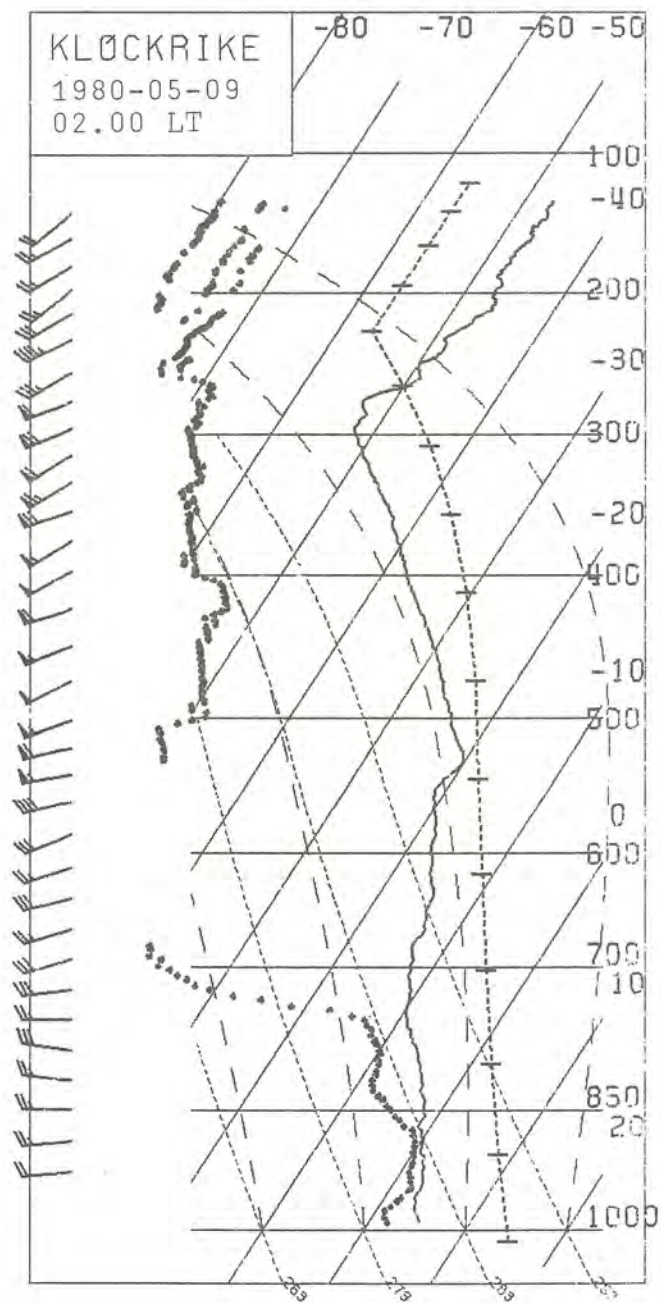
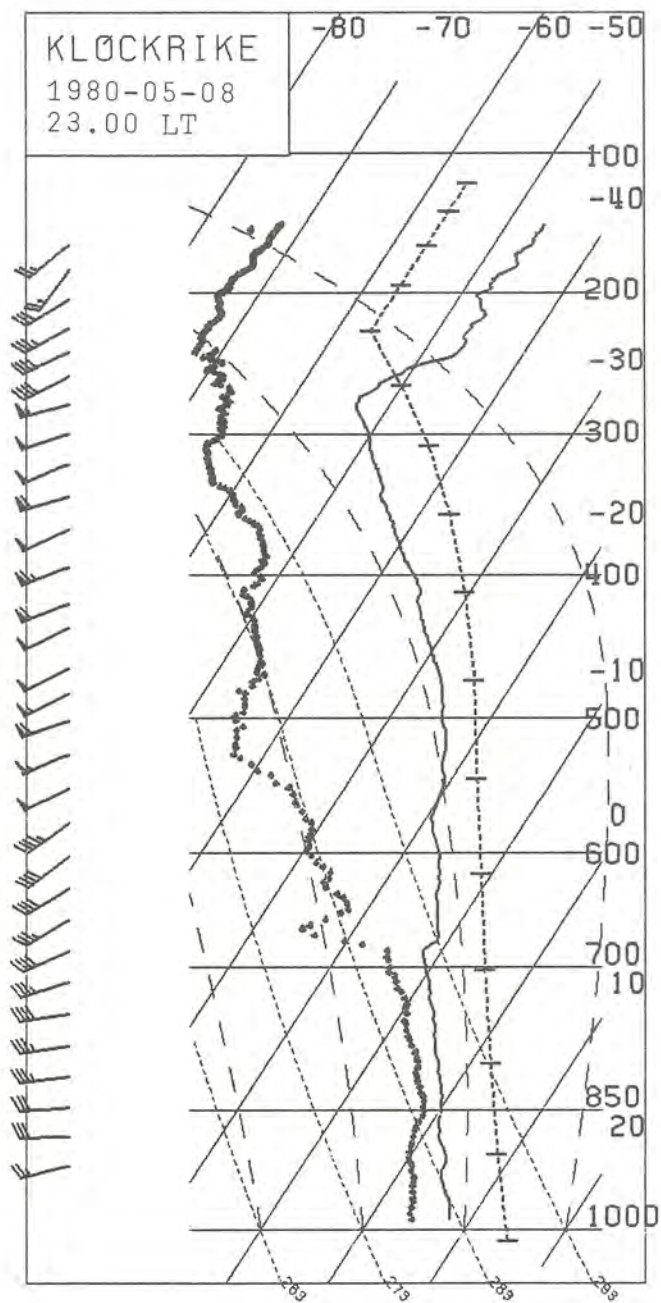
1980-05-08 20.30 LT



(DEG.C)

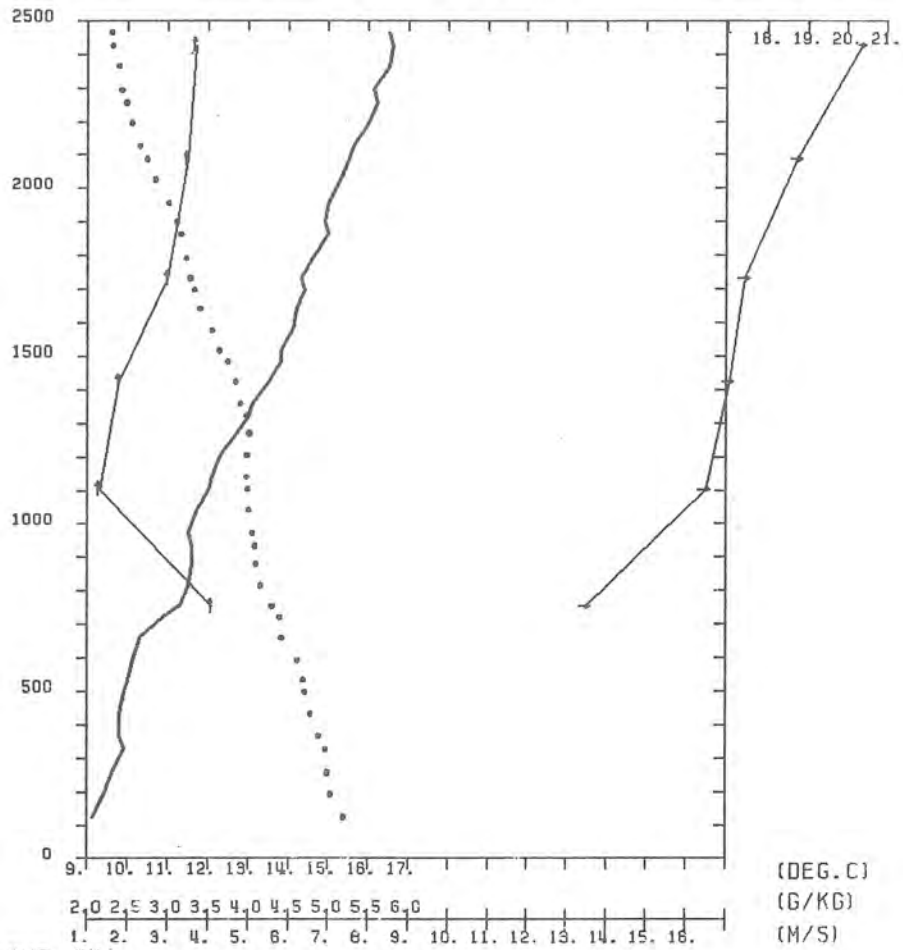
(G/KG)

(M/S)



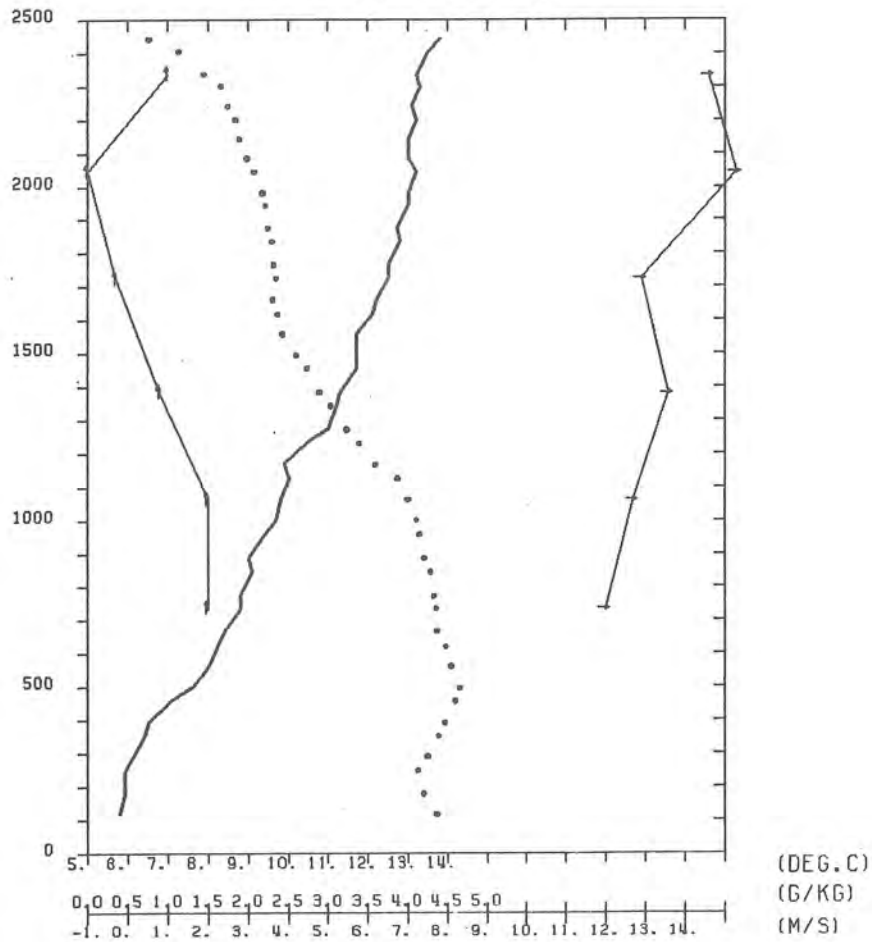
HEIGHT (M)

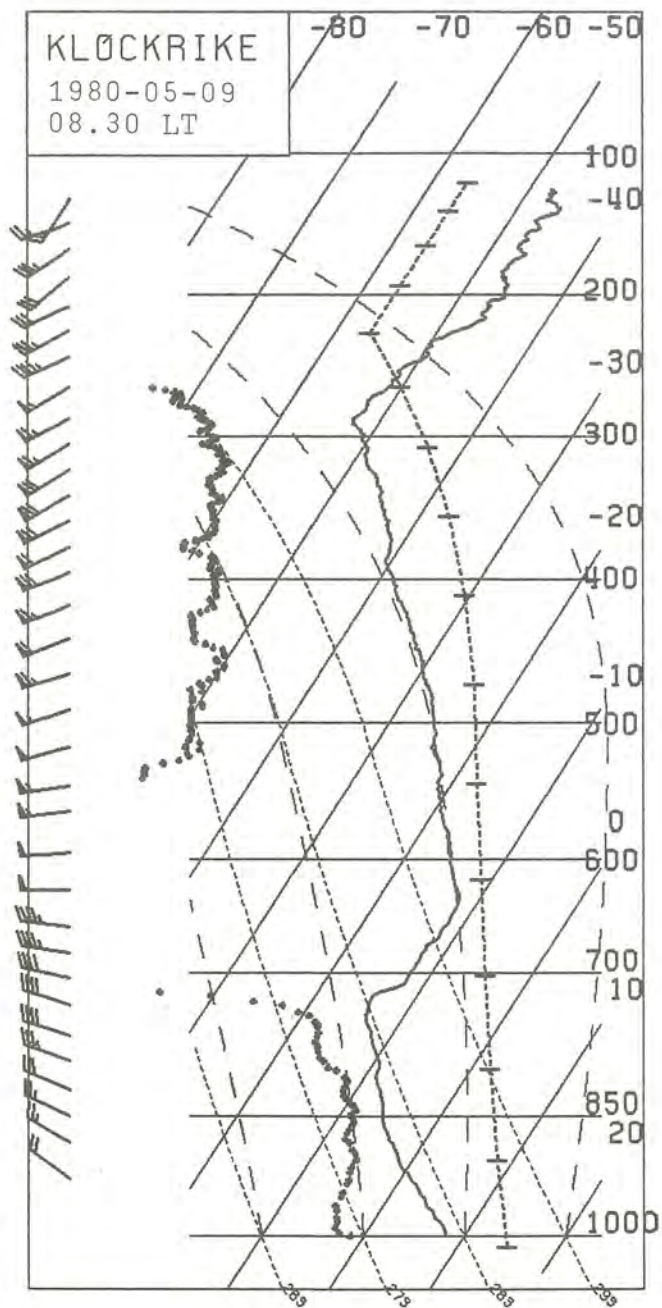
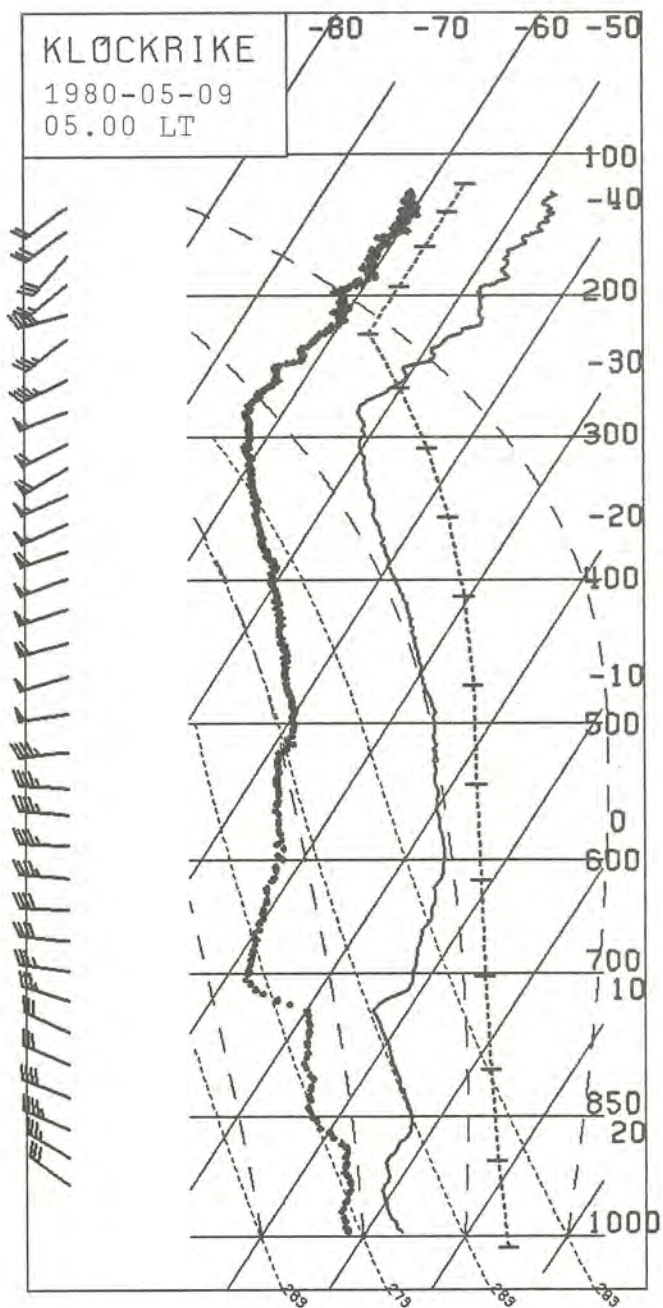
1980-05-08 23.00 LT



HEIGHT (M)

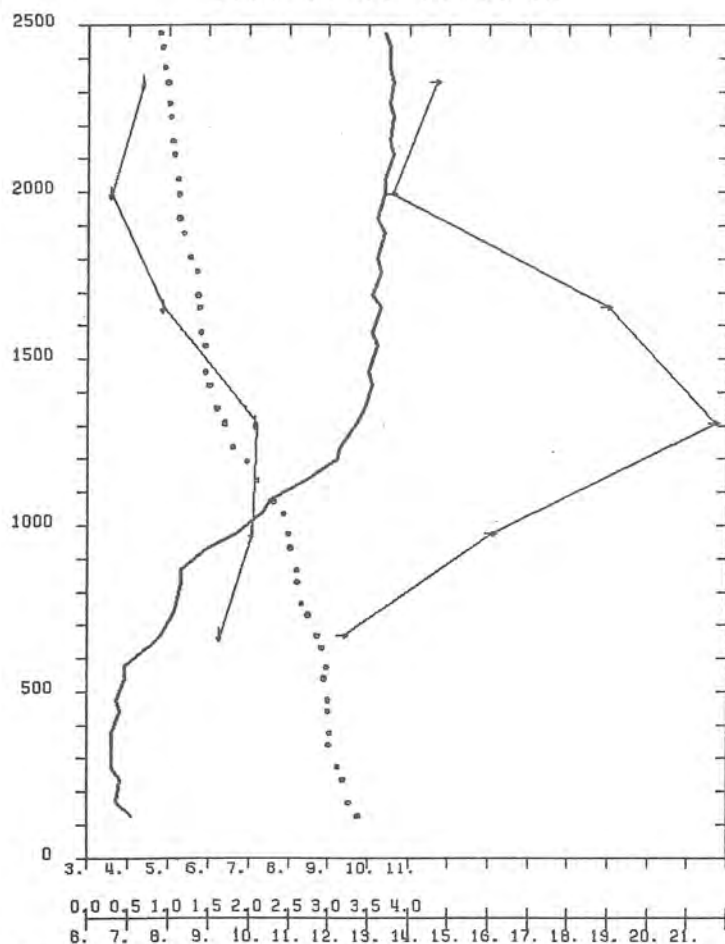
1980-05-09 02.00 LT





HEIGHT (M)

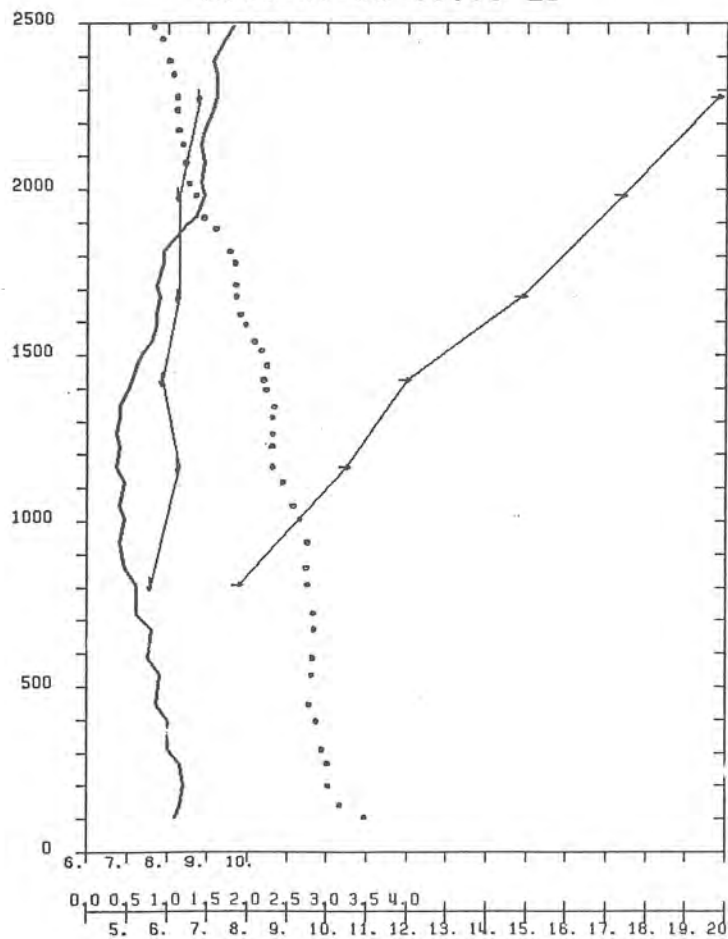
1980-05-09 05.00 LT



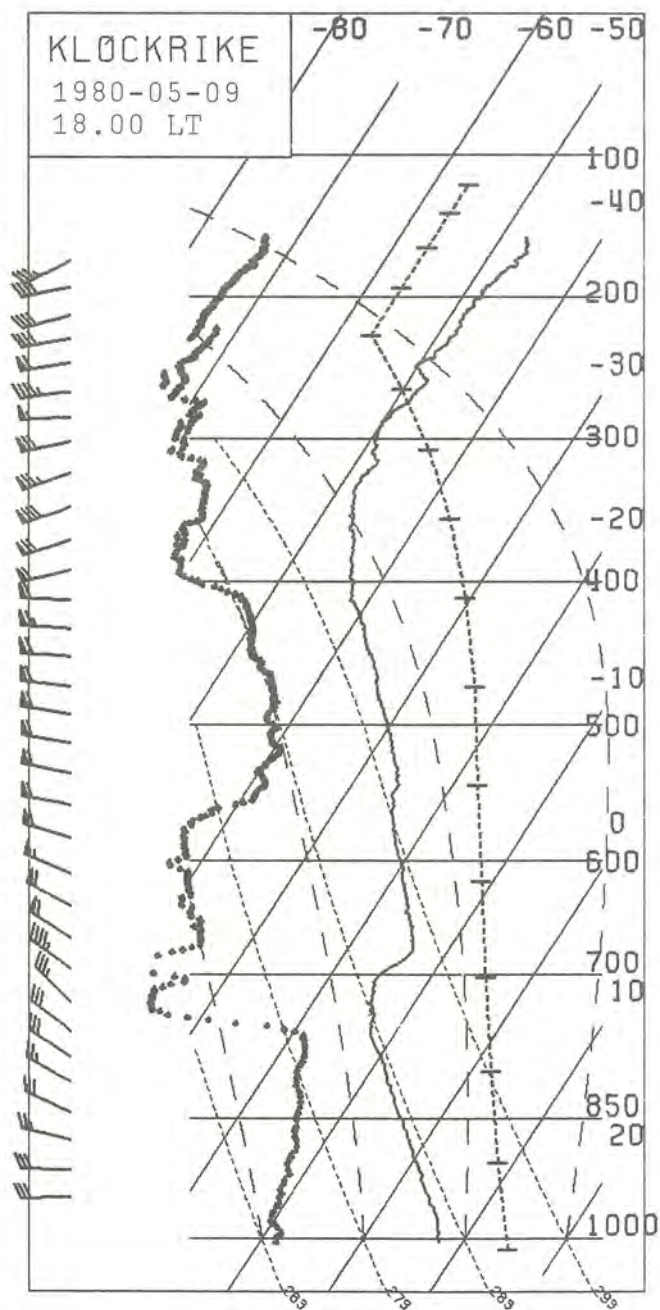
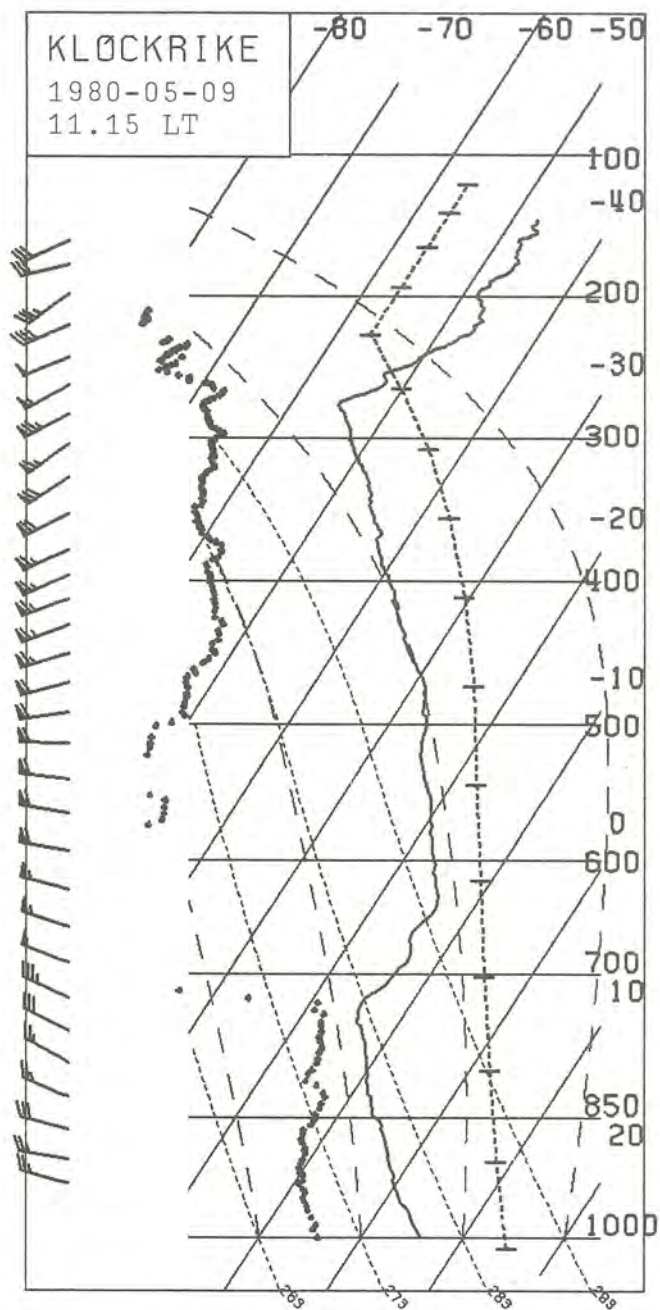
(DEG.C)  
(G/KG)  
(M/S)

HEIGHT (M)

1980-05-09 08.30 LT

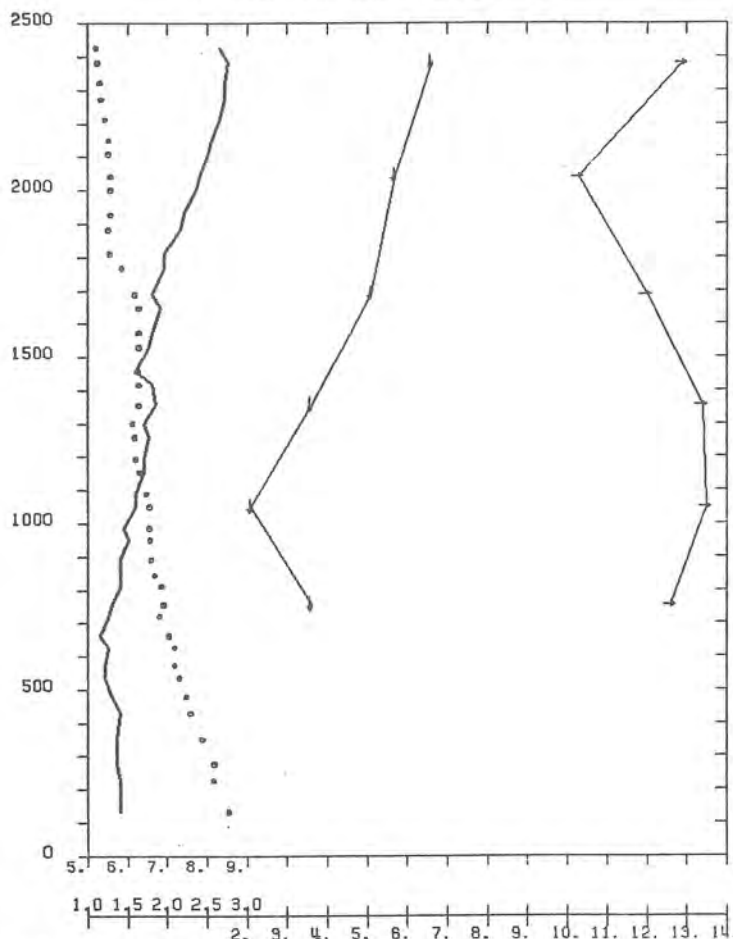


(DEG.C)  
(G/KG)  
(M/S)



HEIGHT (M)

1980-05-09 11.15 LT



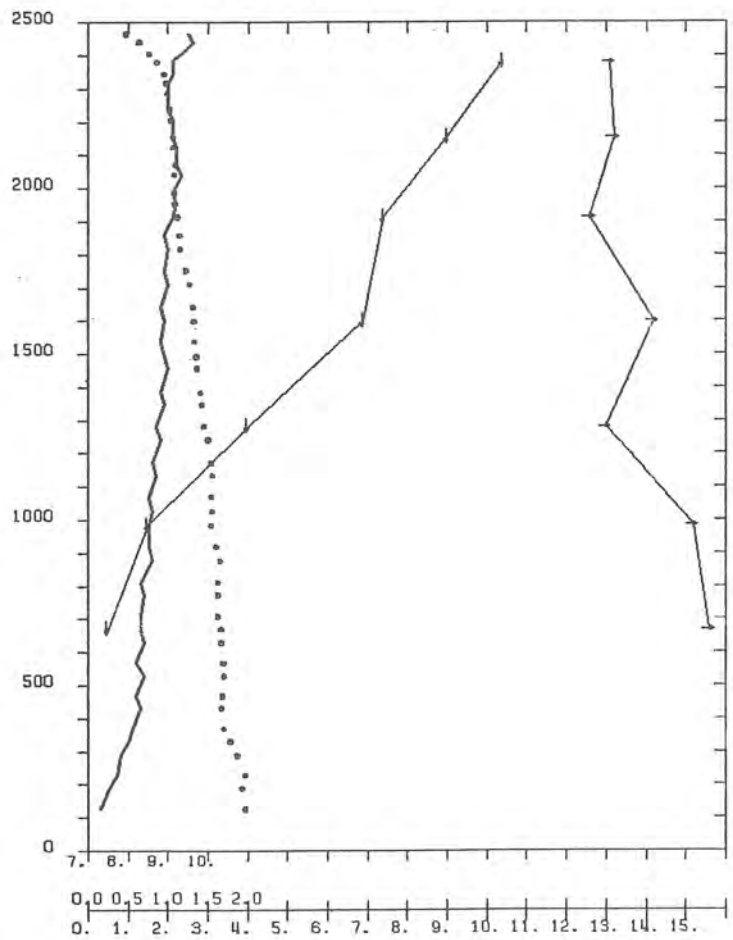
(DEG.C)

(G/KG)

(M/S)

HEIGHT (M)

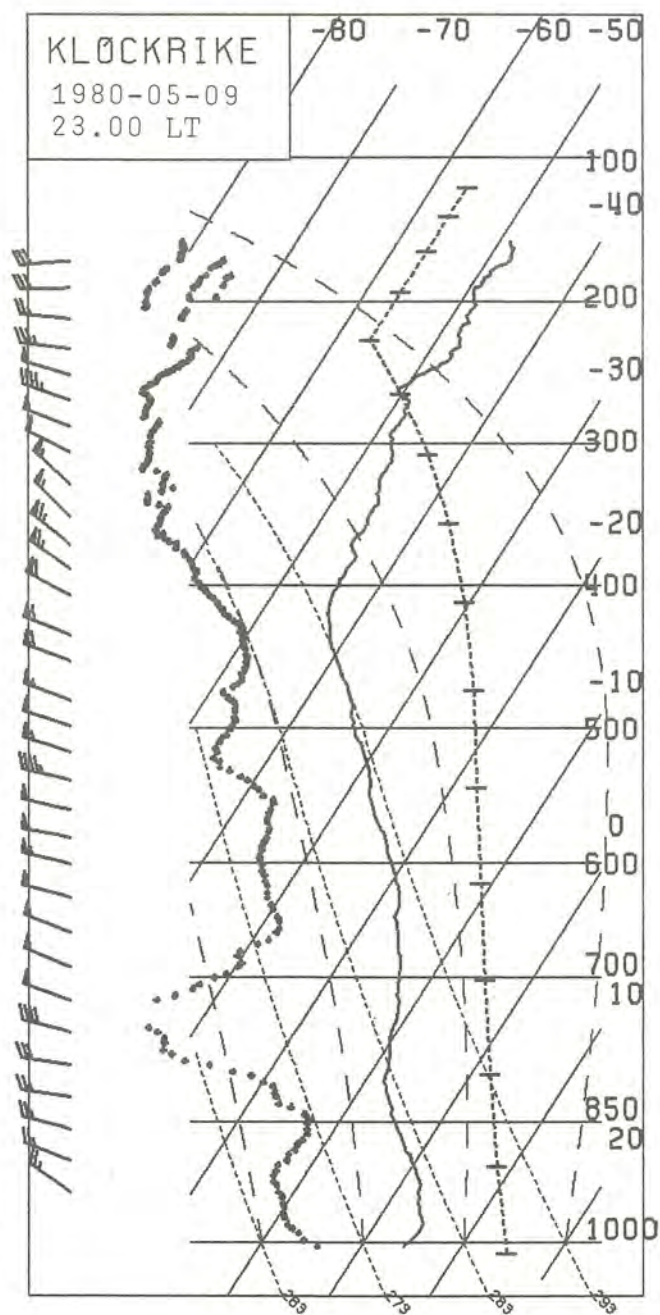
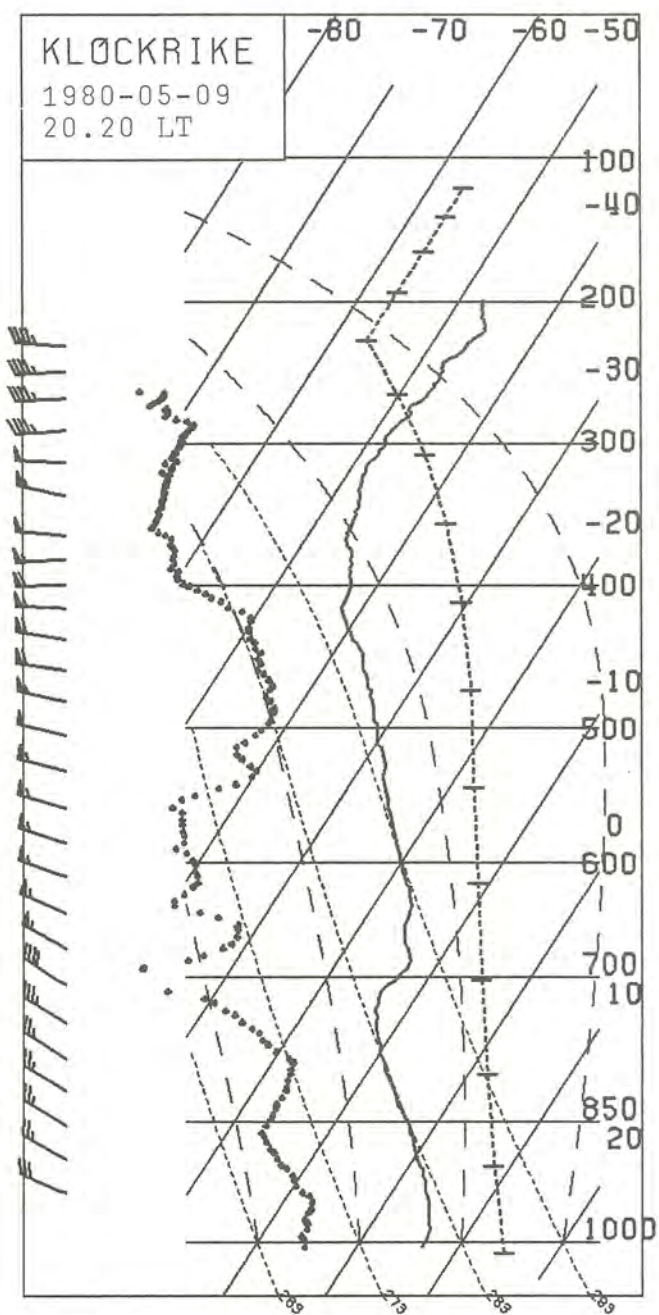
1980-05-09 18.00 LT



(DEG.C)

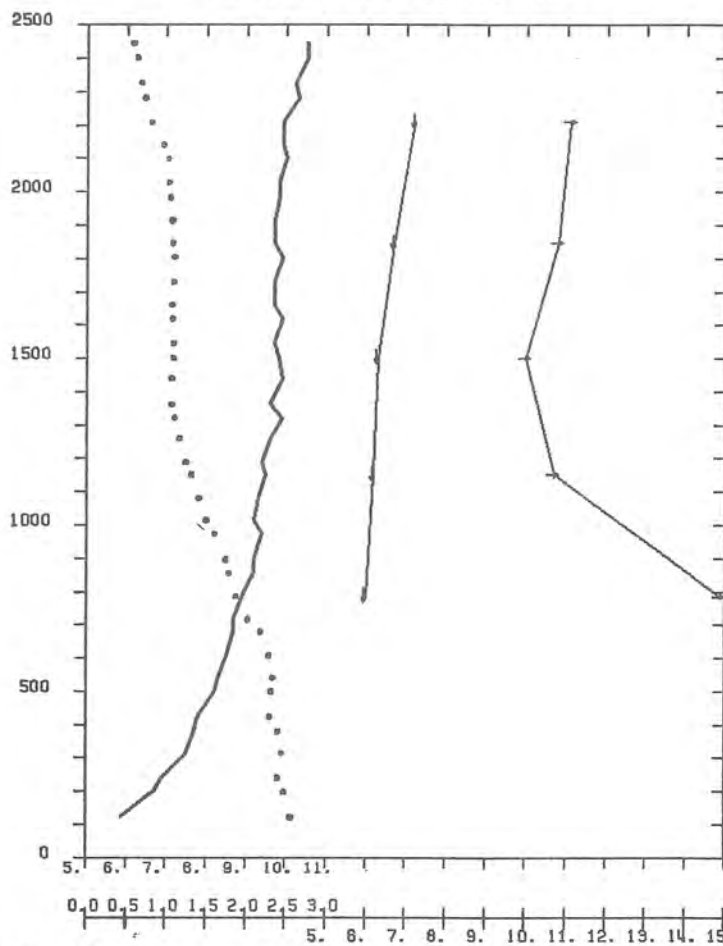
(G/KG)

(M/S)



HEIGHT (M)

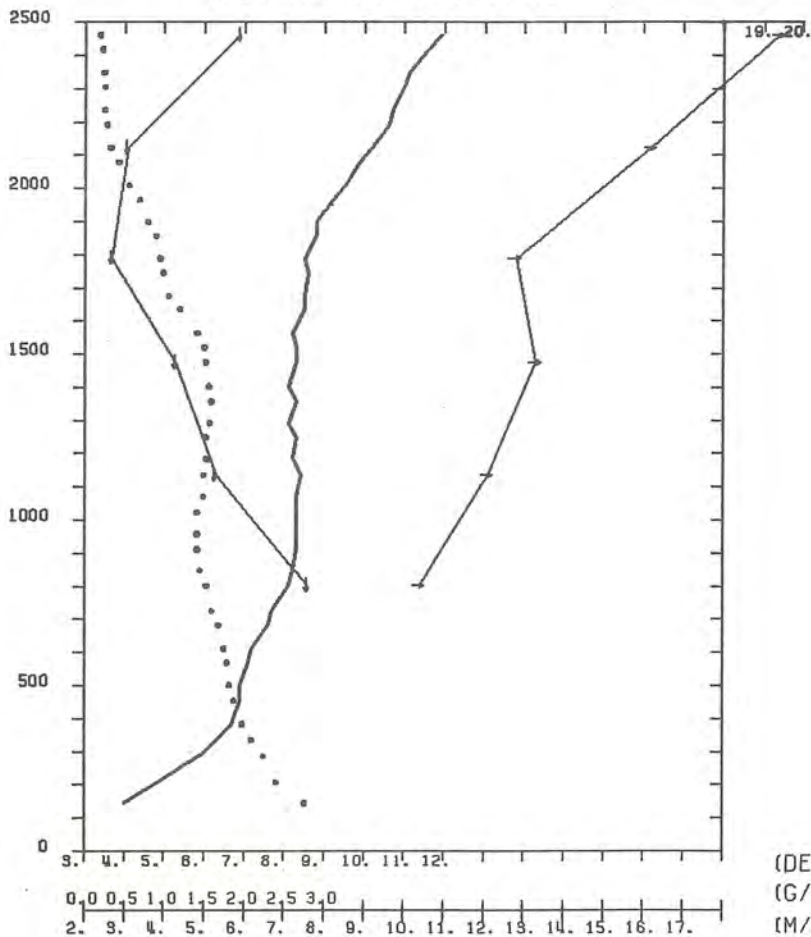
1980-05-09 20.20 LT



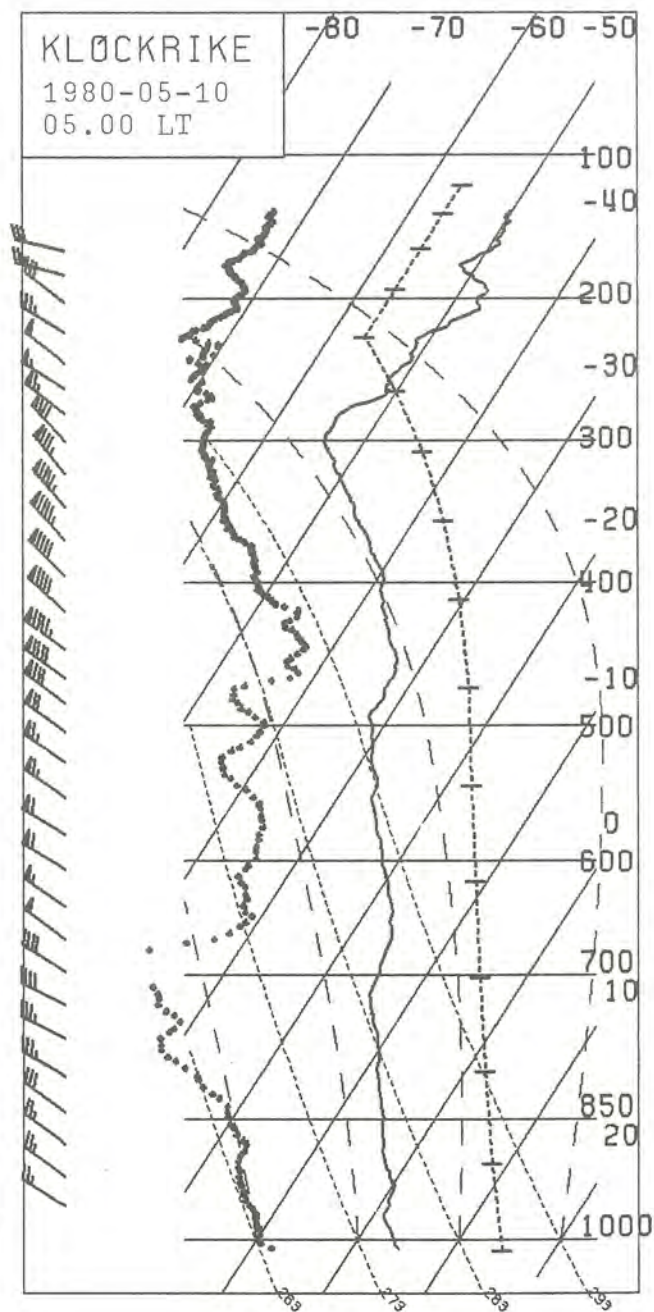
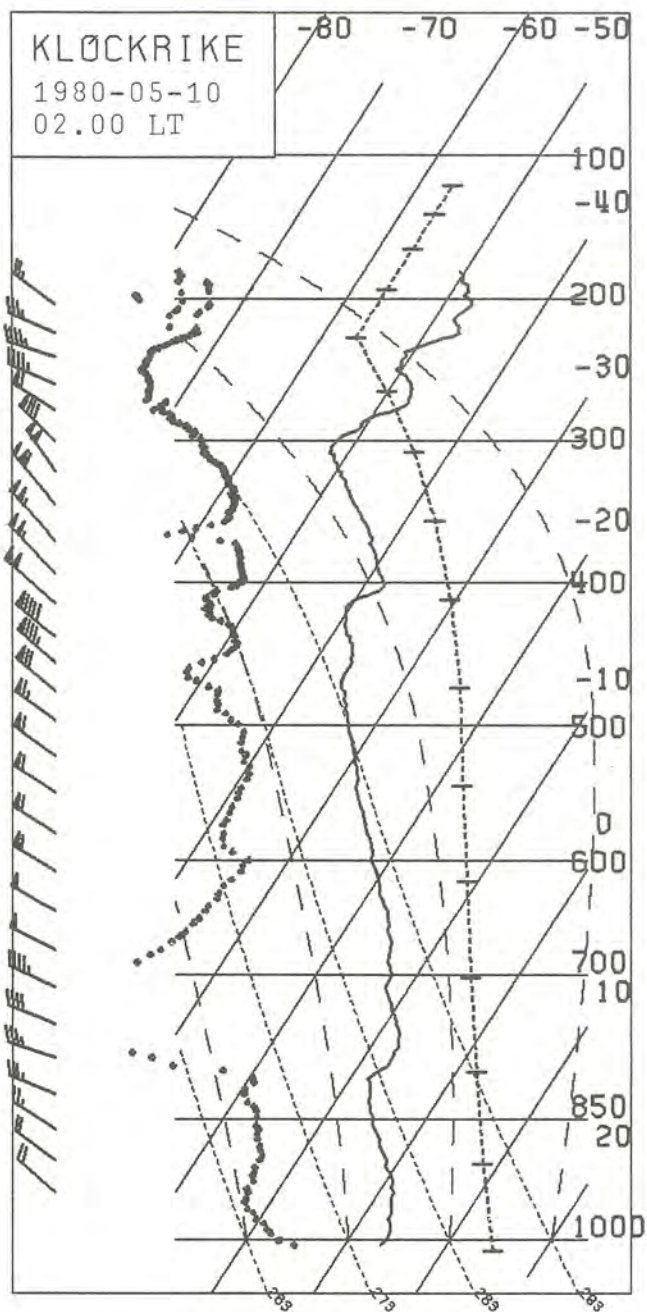
(DEG.C)  
(G/KG)  
(M/S)

HEIGHT (M)

1980-05-09 23.00 LT

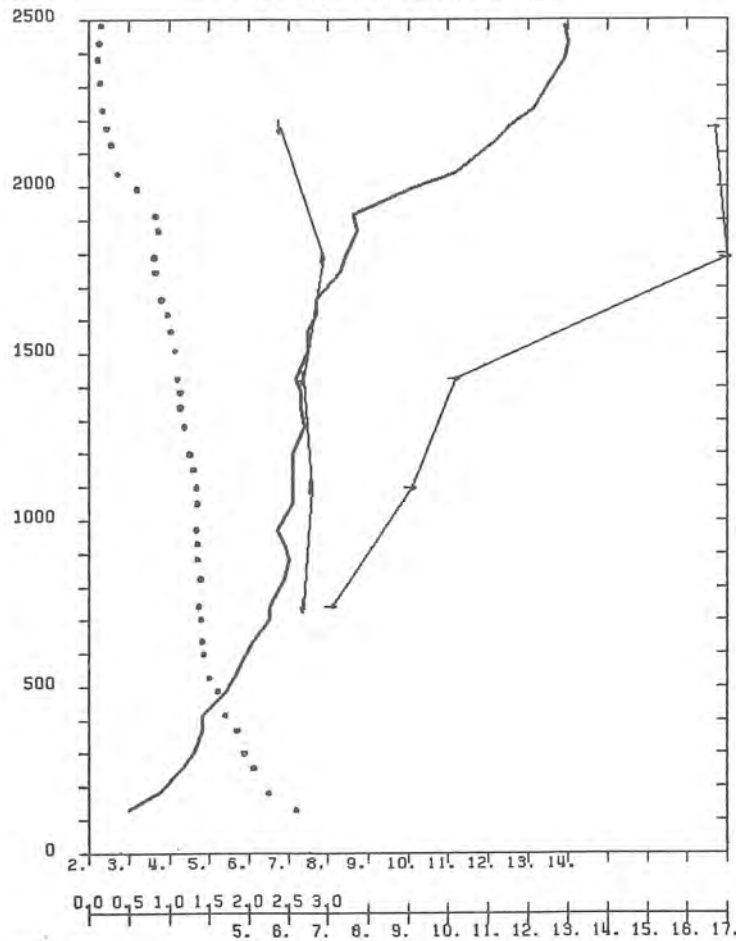


(DEG.C)  
(G/KG)  
(M/S)



HEIGHT (M)

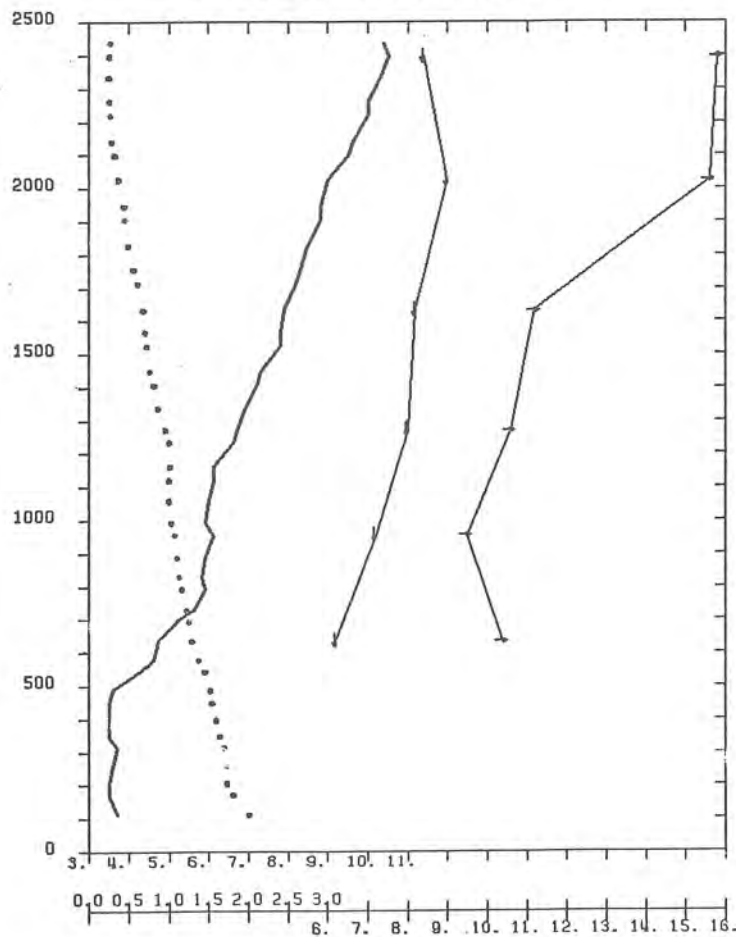
1980-05-10 02.00 LT



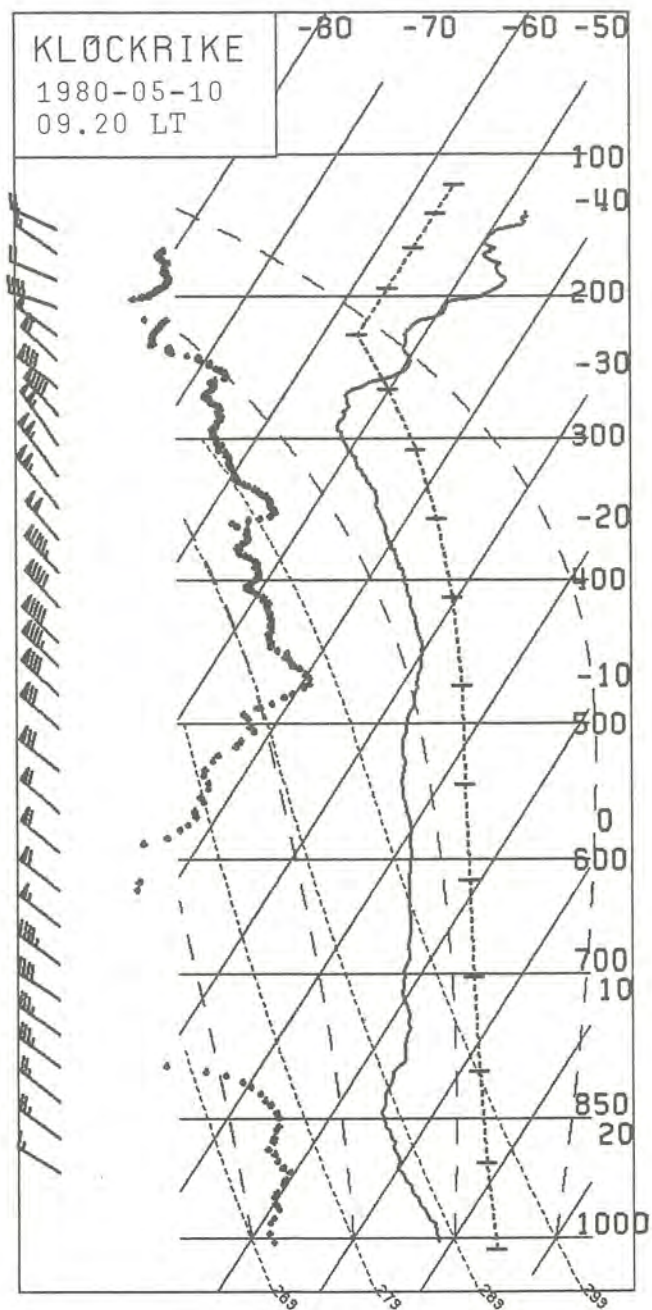
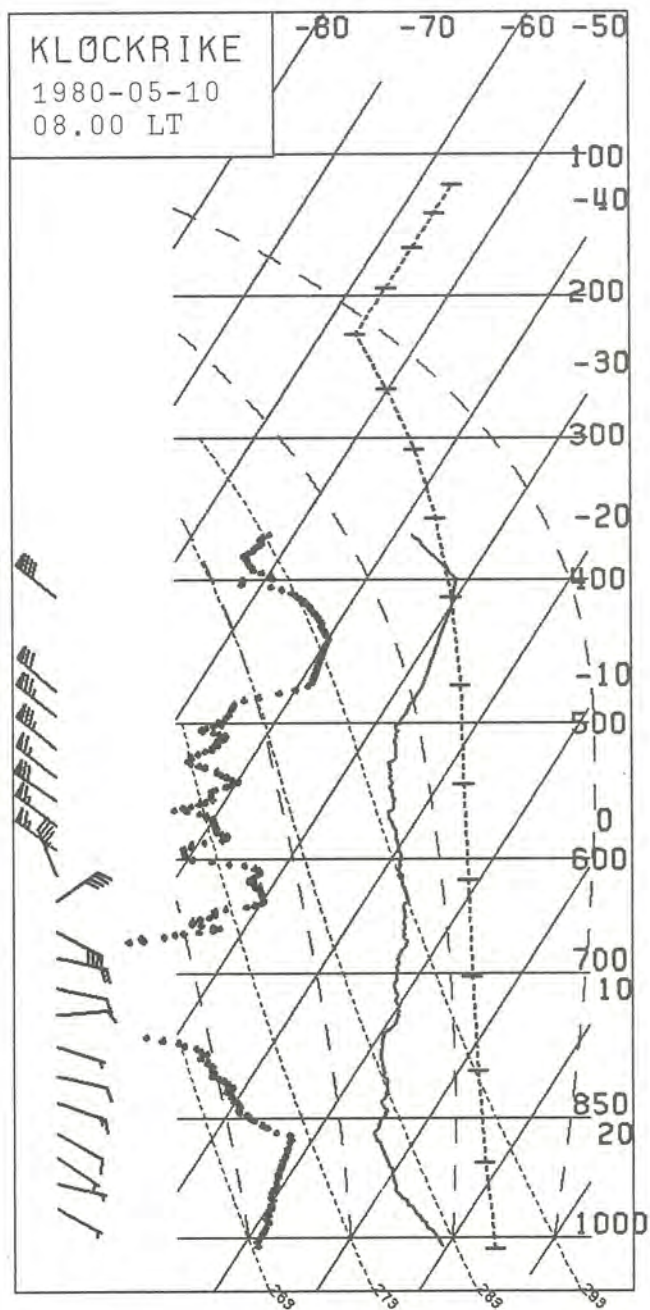
(DEG.C)  
(G/KG)  
(M/S)

HEIGHT (M)

1980-05-10 05.00 LT

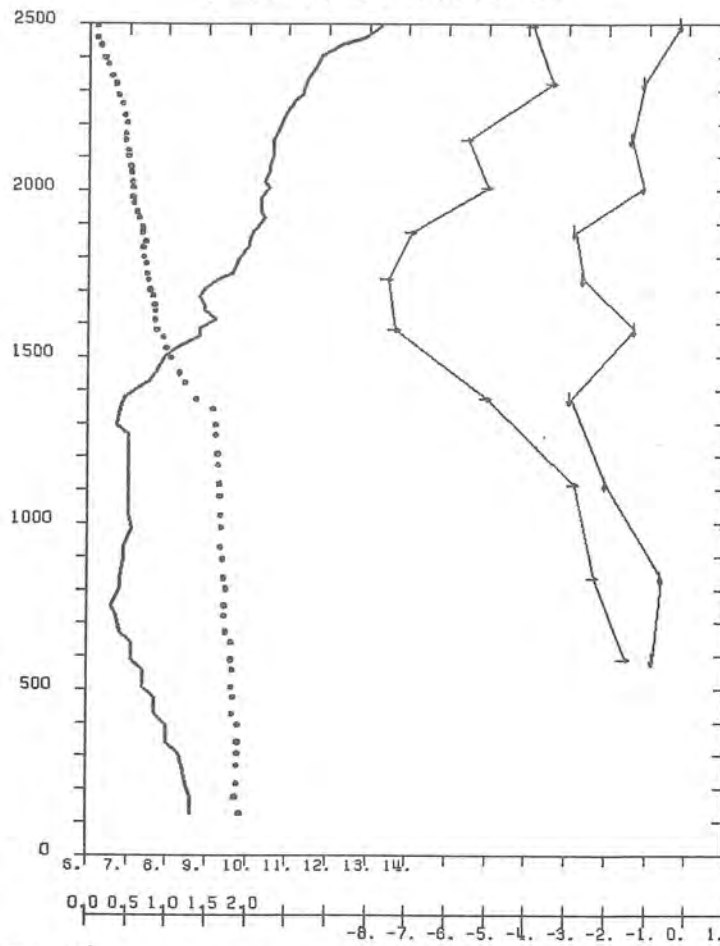


(DEG.C)  
(G/KG)  
(M/S)



HEIGHT (M)

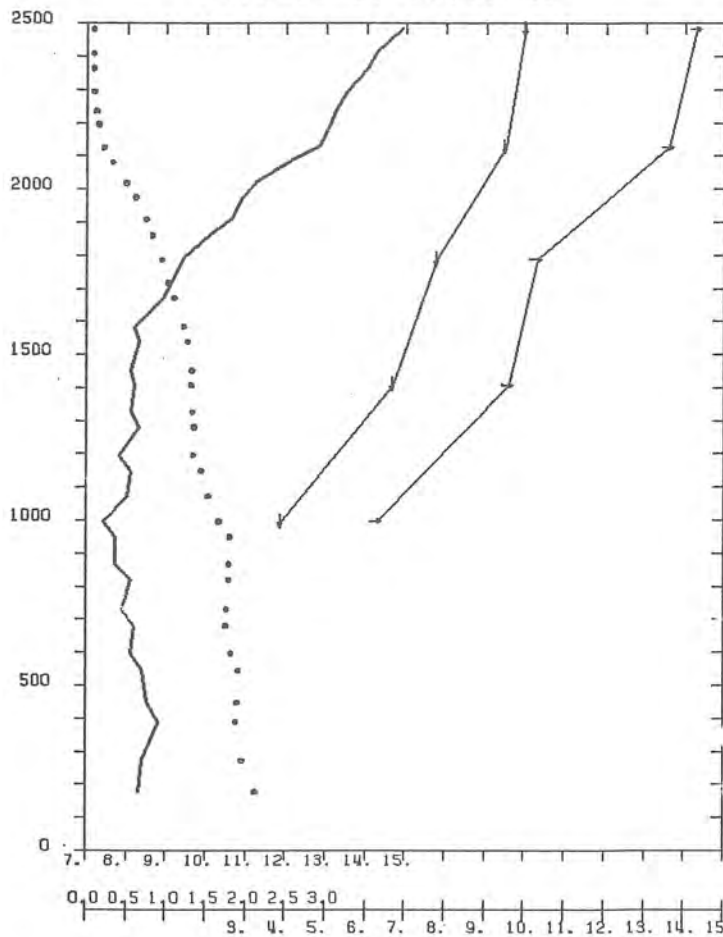
1980-05-10 08.00 LT



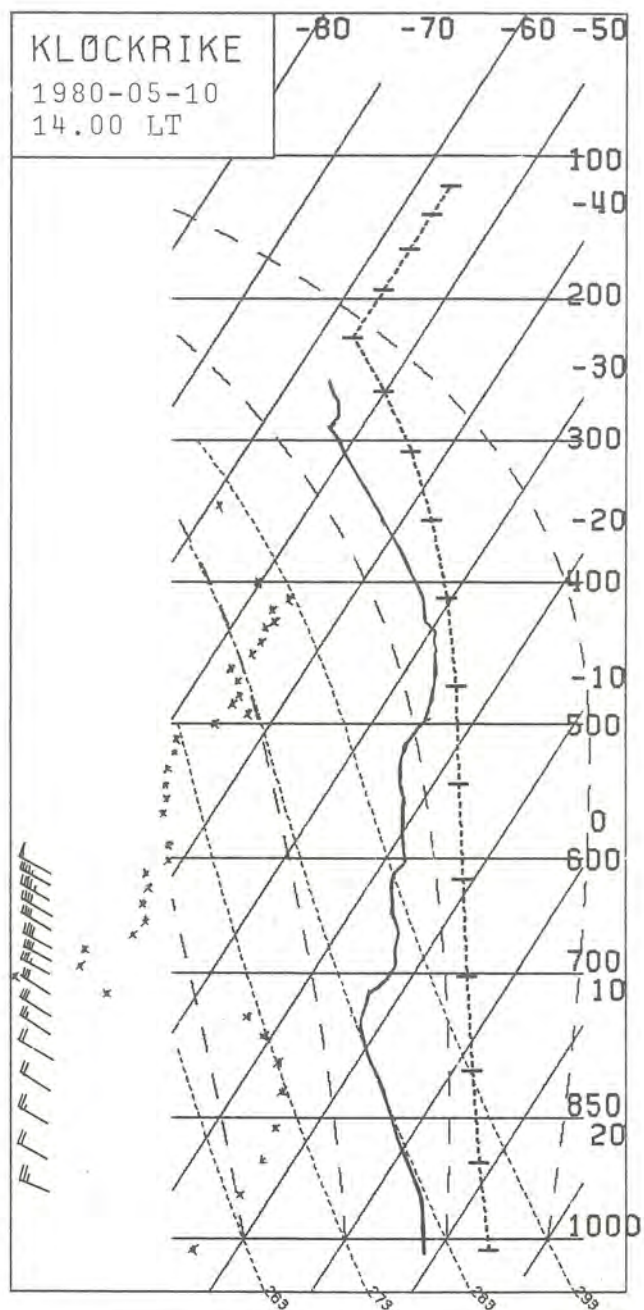
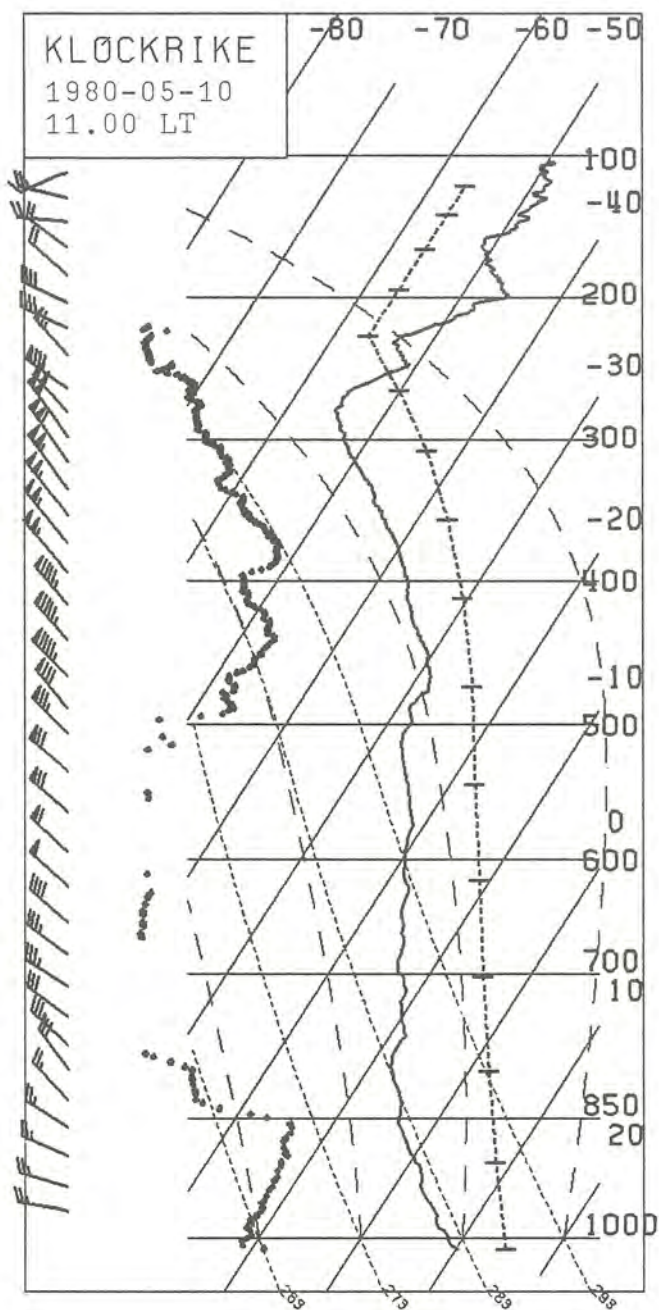
(DEG.C)  
(G/KG)  
(M/S)

HEIGHT (M)

1980-05-10 09.20 LT

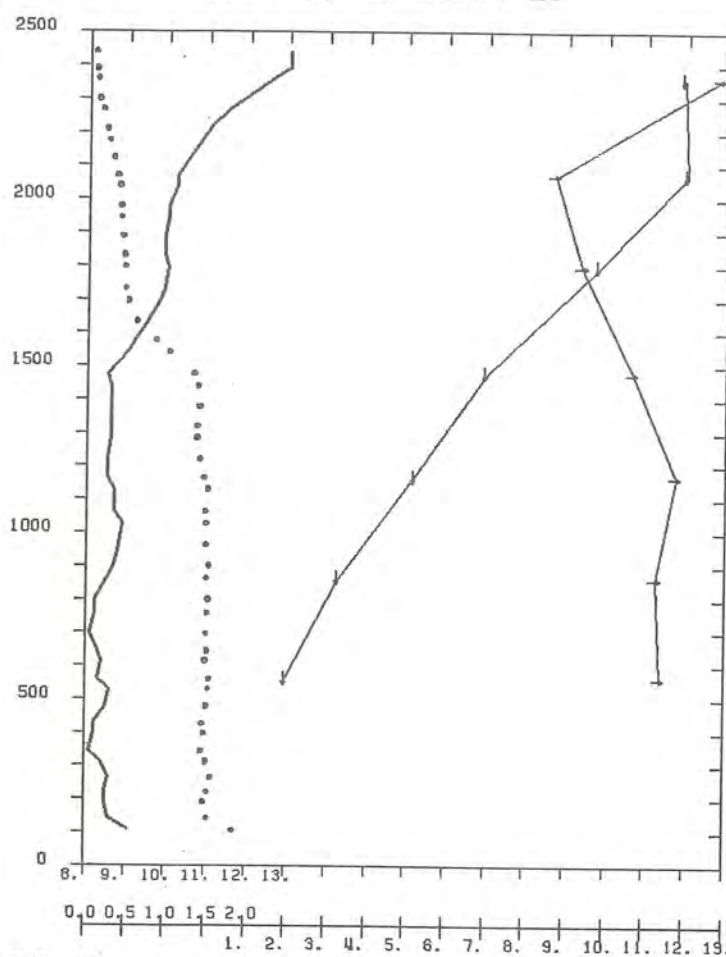


(DEG.C)  
(G/KG)  
(M/S)



HEIGHT (M)

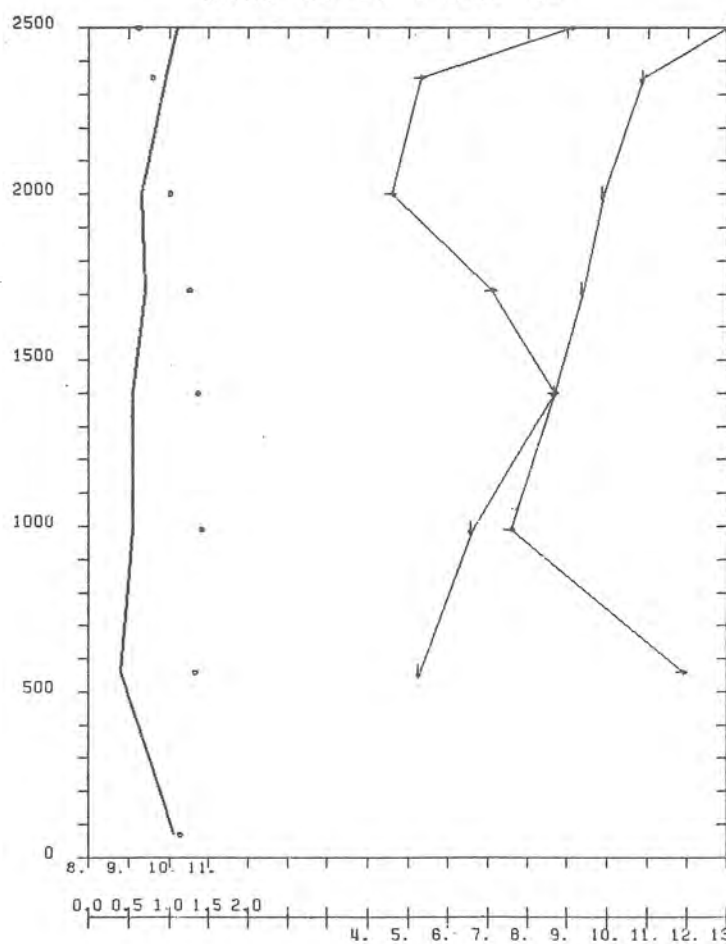
1980-05-10 11.00 LT



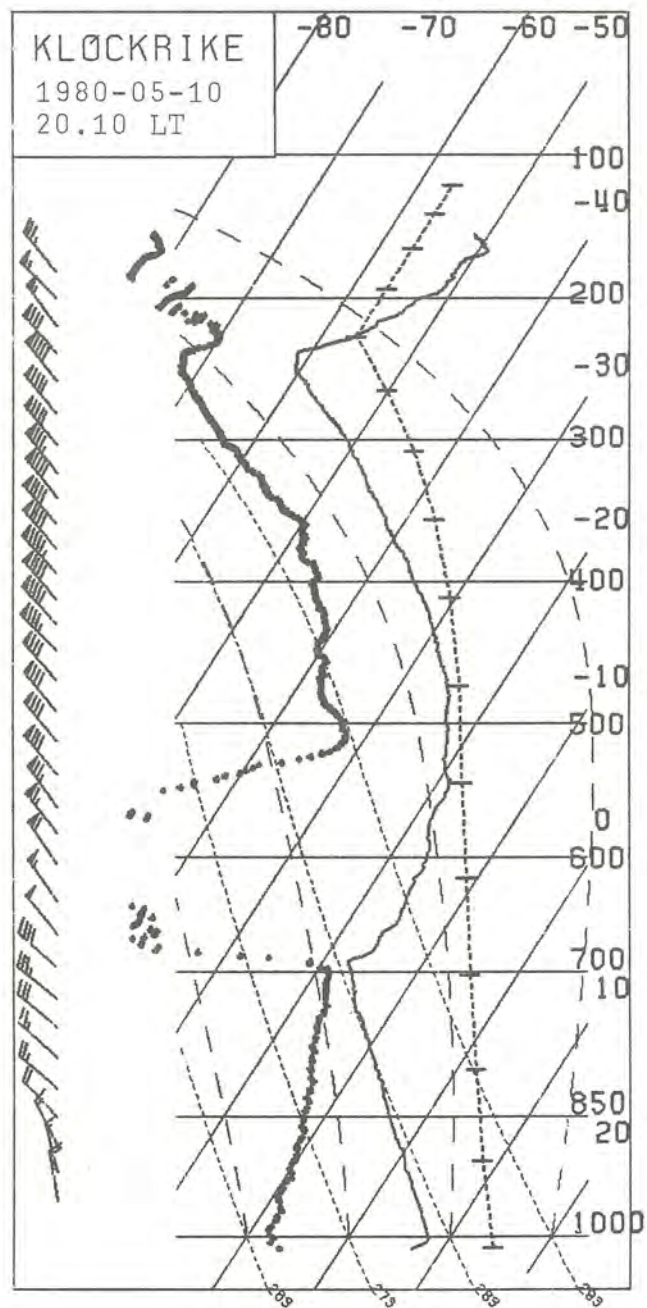
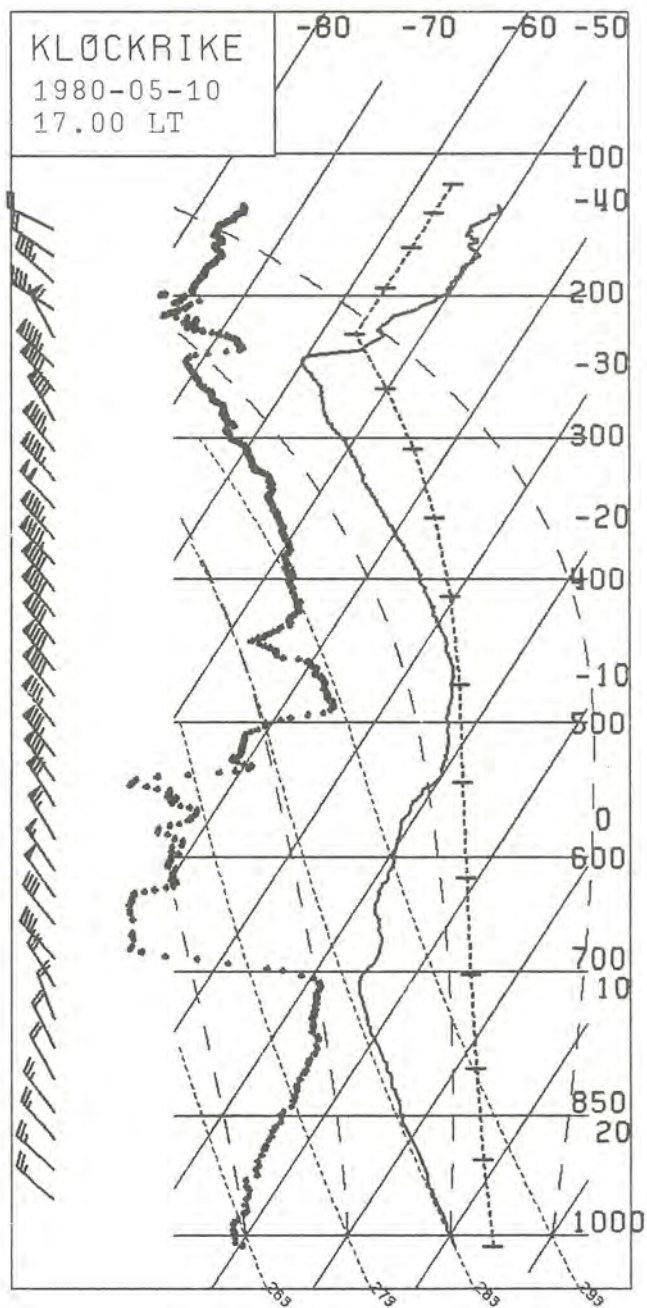
(DEG.C)  
(G/KG)  
(M/S)

HEIGHT (M)

1980-05-10 14.00 LT

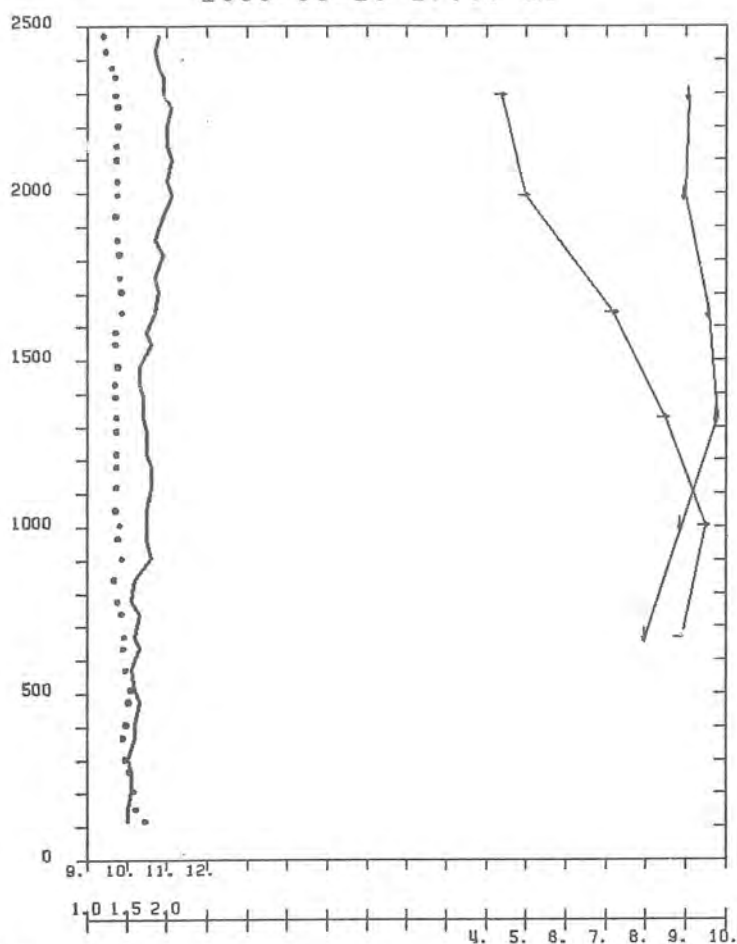


(DEG.C)  
(G/KG)  
(M/S)



HEIGHT (M)

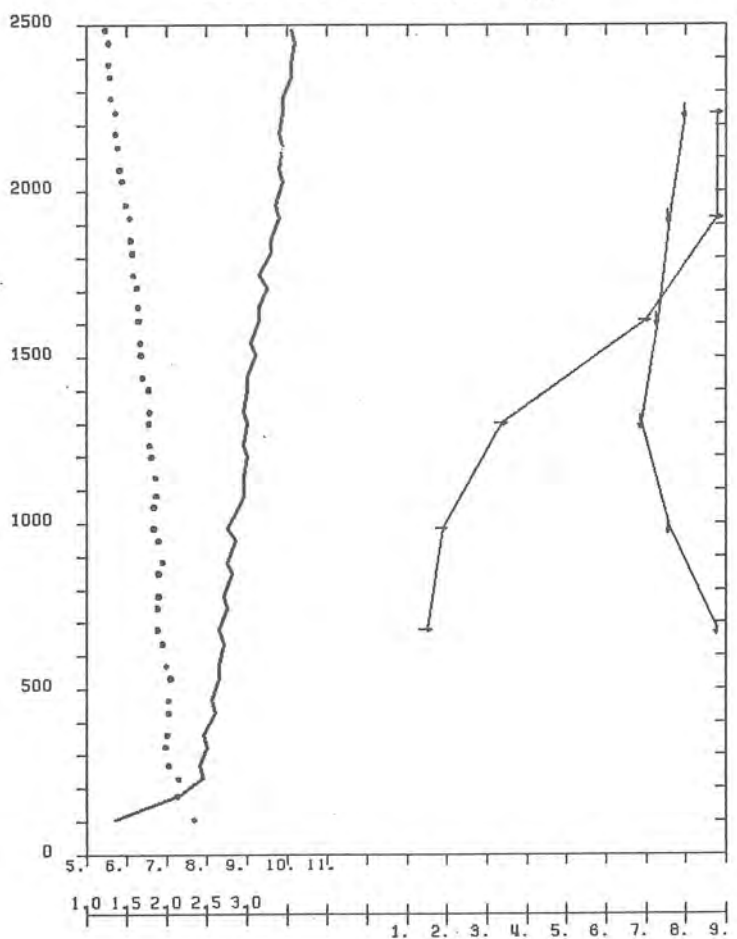
1980-05-10 17.00 LT



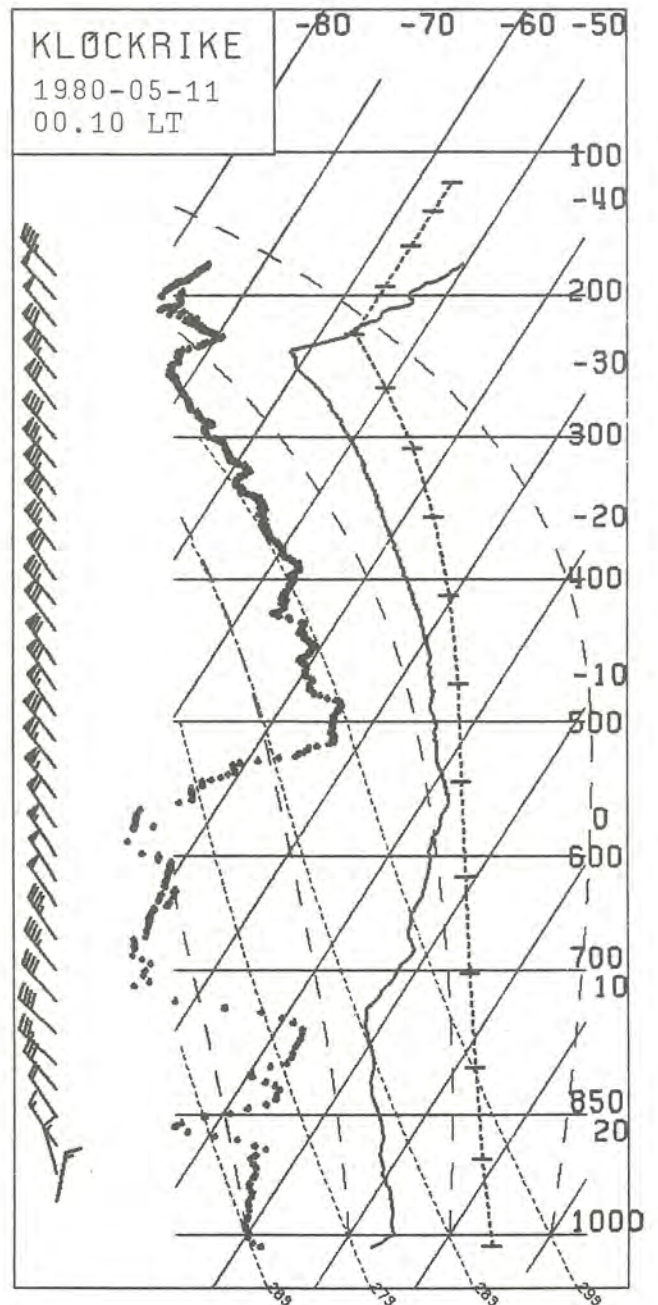
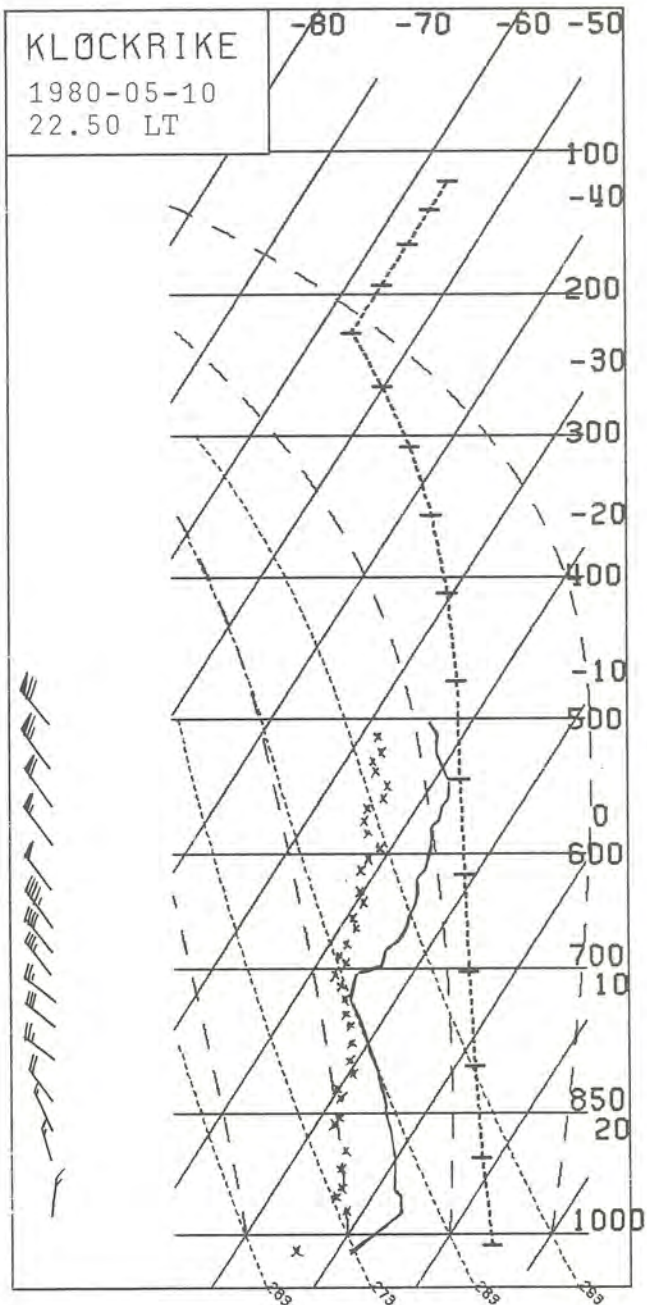
(DEG.C)  
(G/KG)  
(M/S)

HEIGHT (M)

1980-05-10 20.10 LT

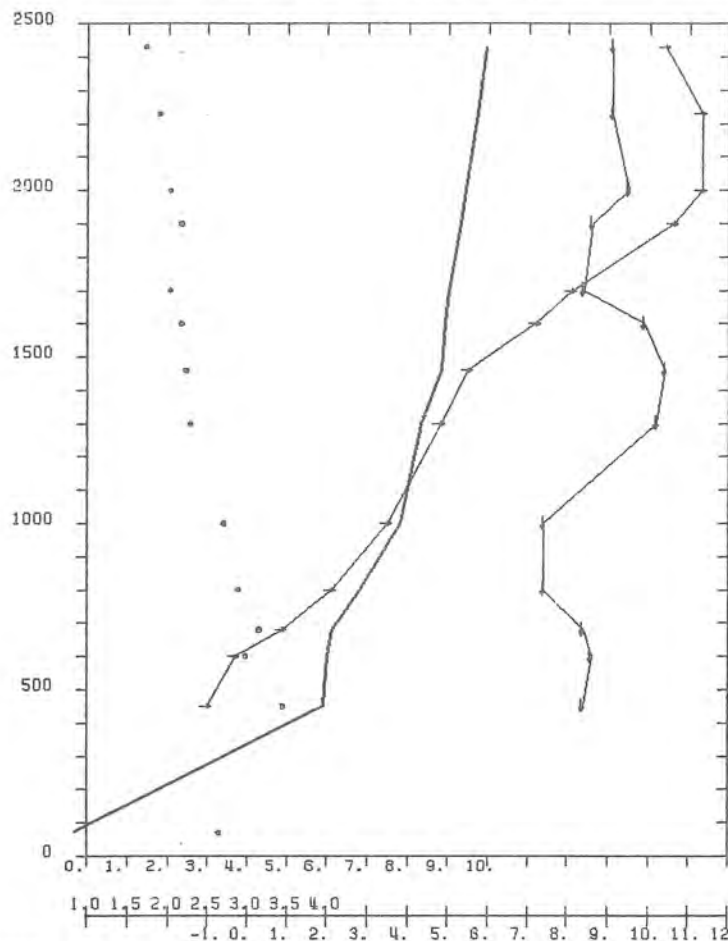


(DEG.C)  
(G/KG)  
(M/S)



HEIGHT (M)

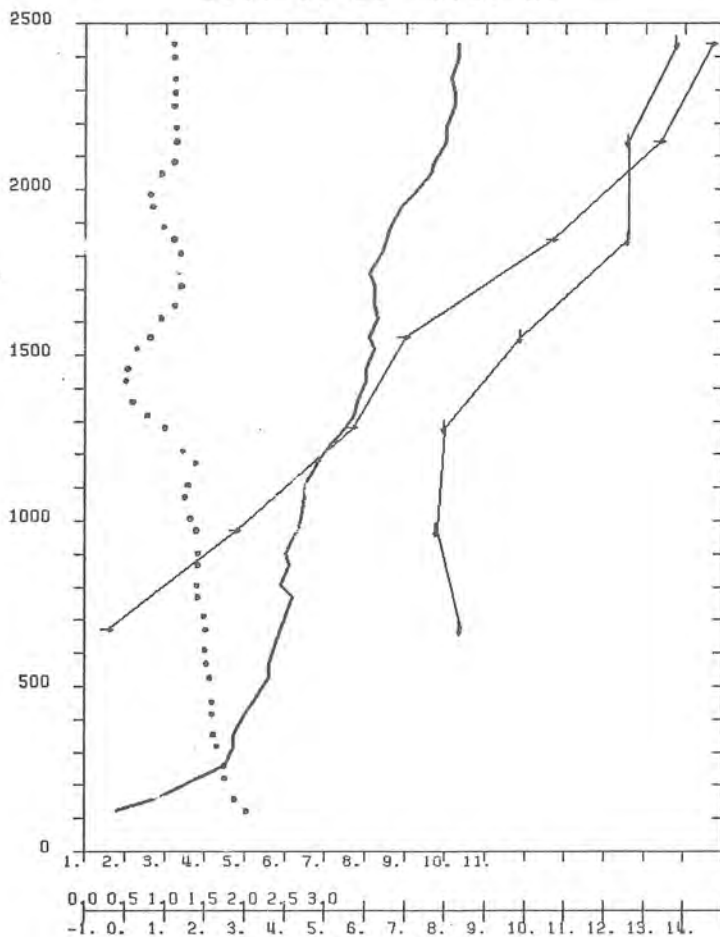
1980-05-10 22.50 LT



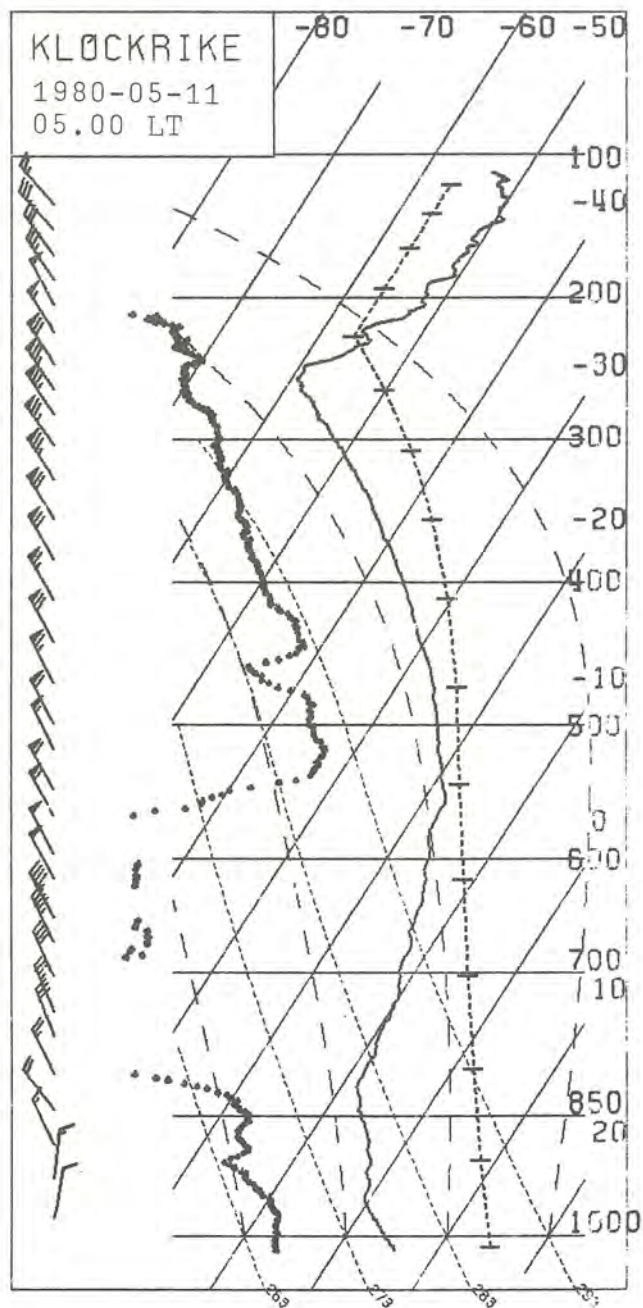
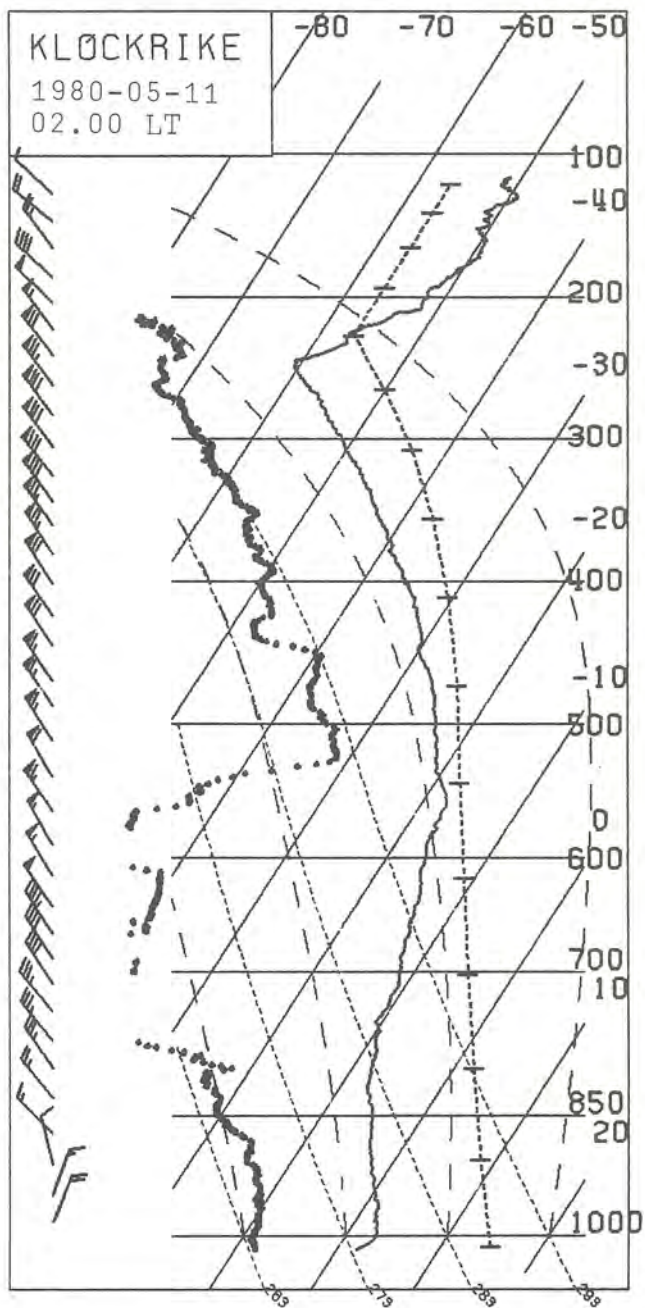
(DEG.C)  
(G/KG)  
(M/SI)

HEIGHT (M)

1980-05-11 00.10 LT

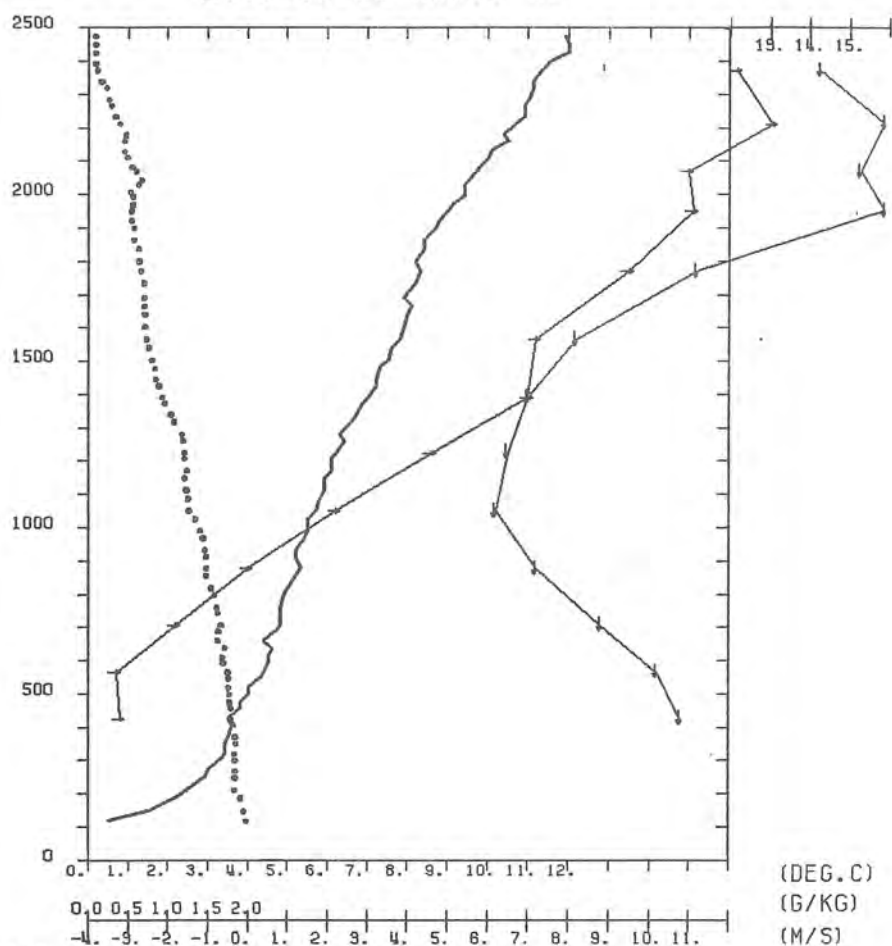


(DEG.C)  
(G/KG)  
(M/SI)



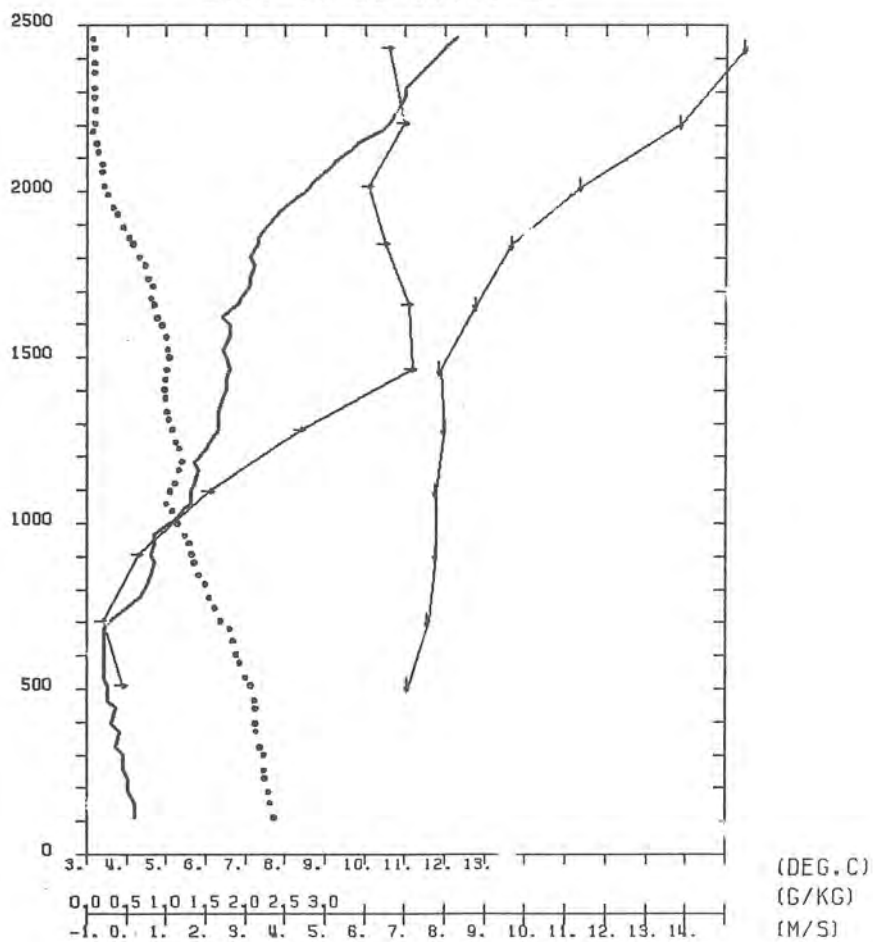
HEIGHT (M)

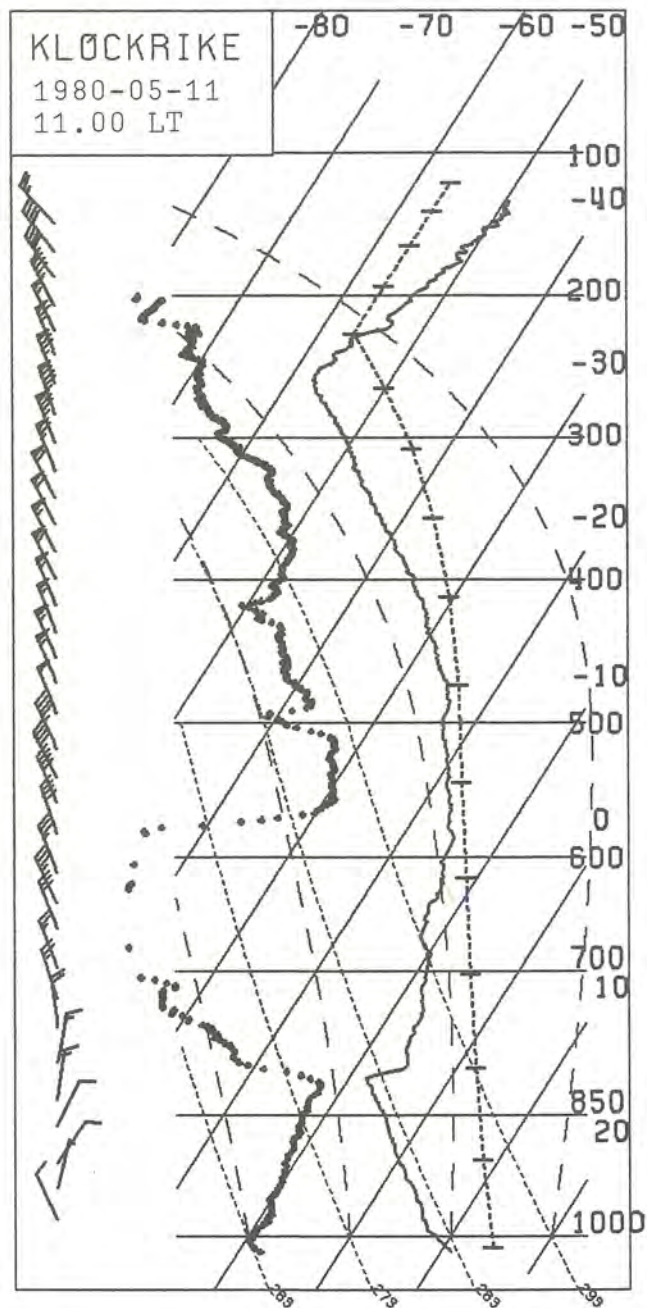
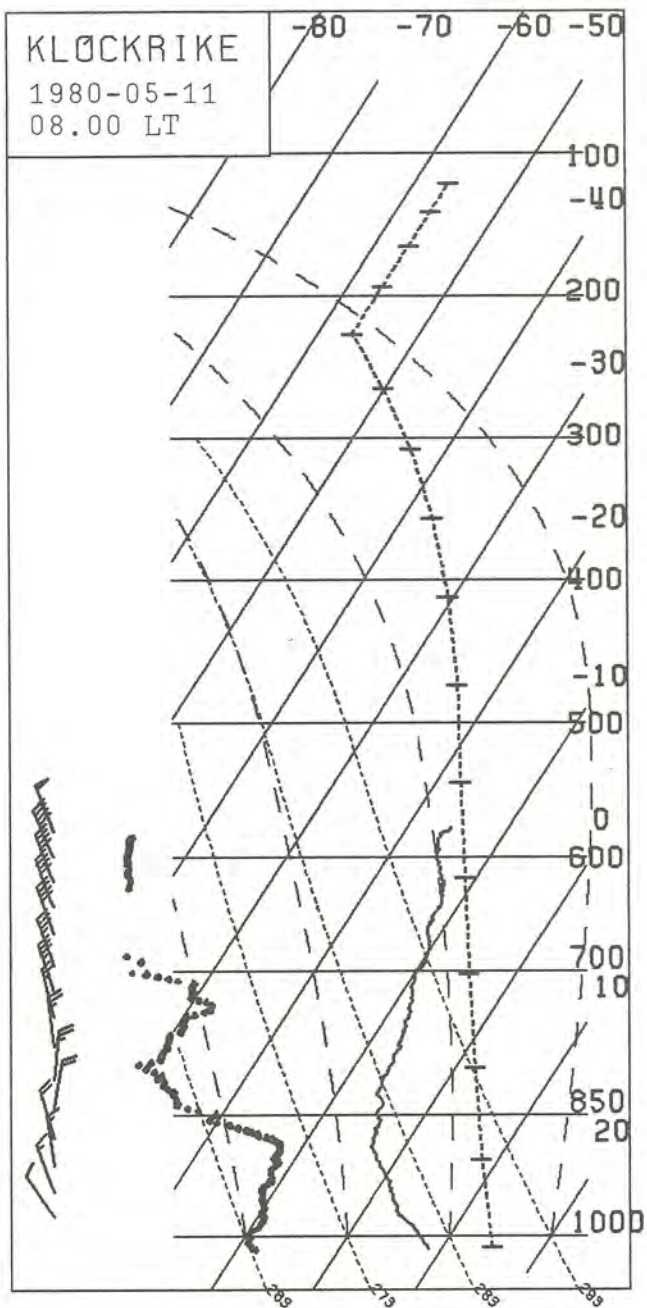
1980-05-11 02.00 LT



HEIGHT (M)

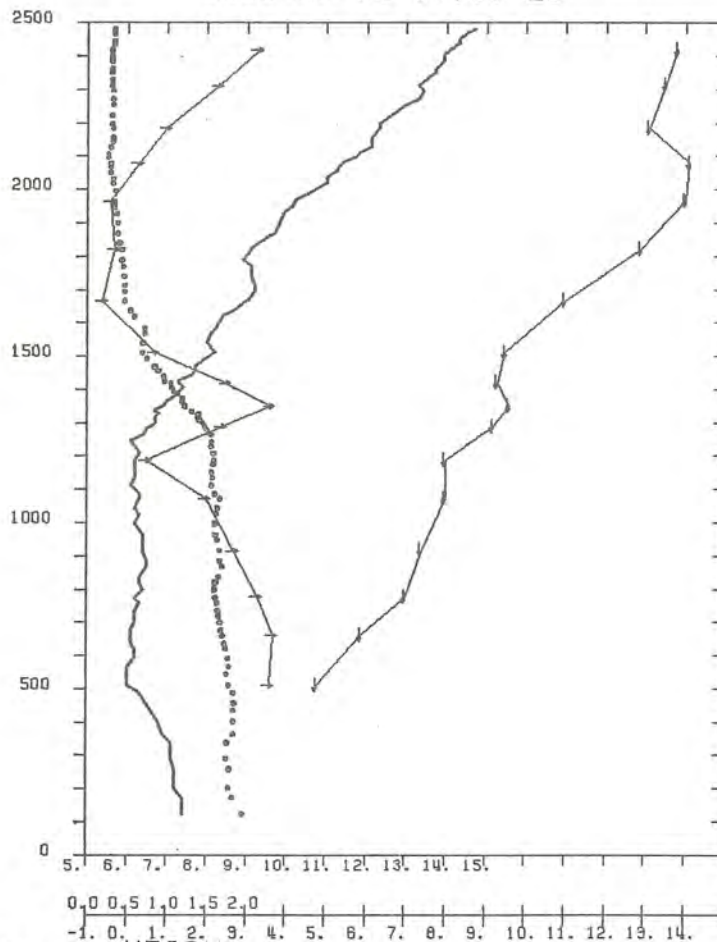
1980-05-11 05.00 LT





HEIGHT (M)

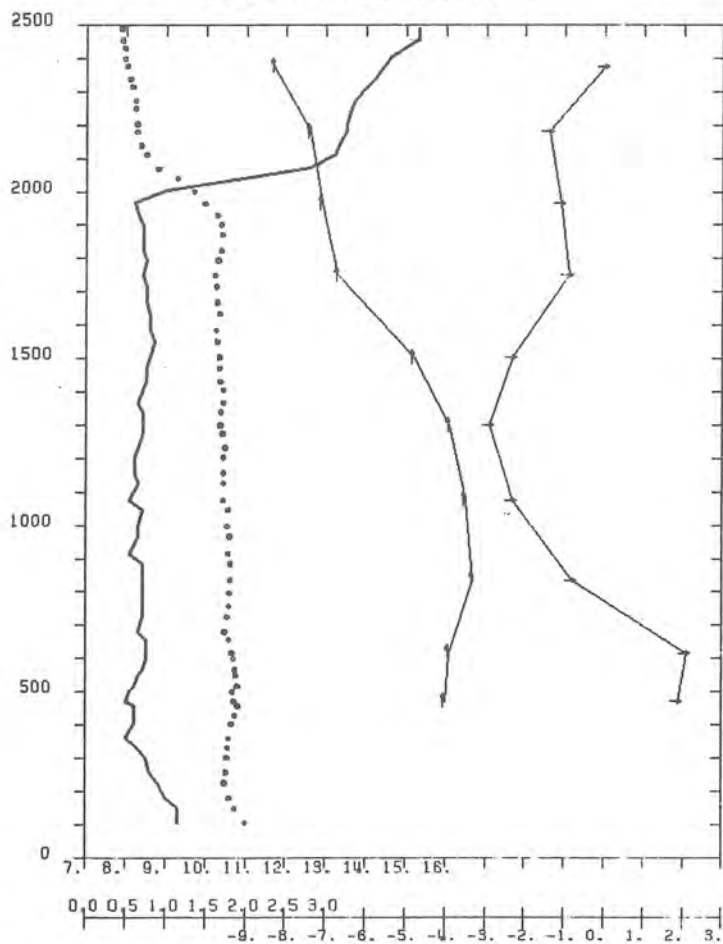
1980-05-11 08.00 LT



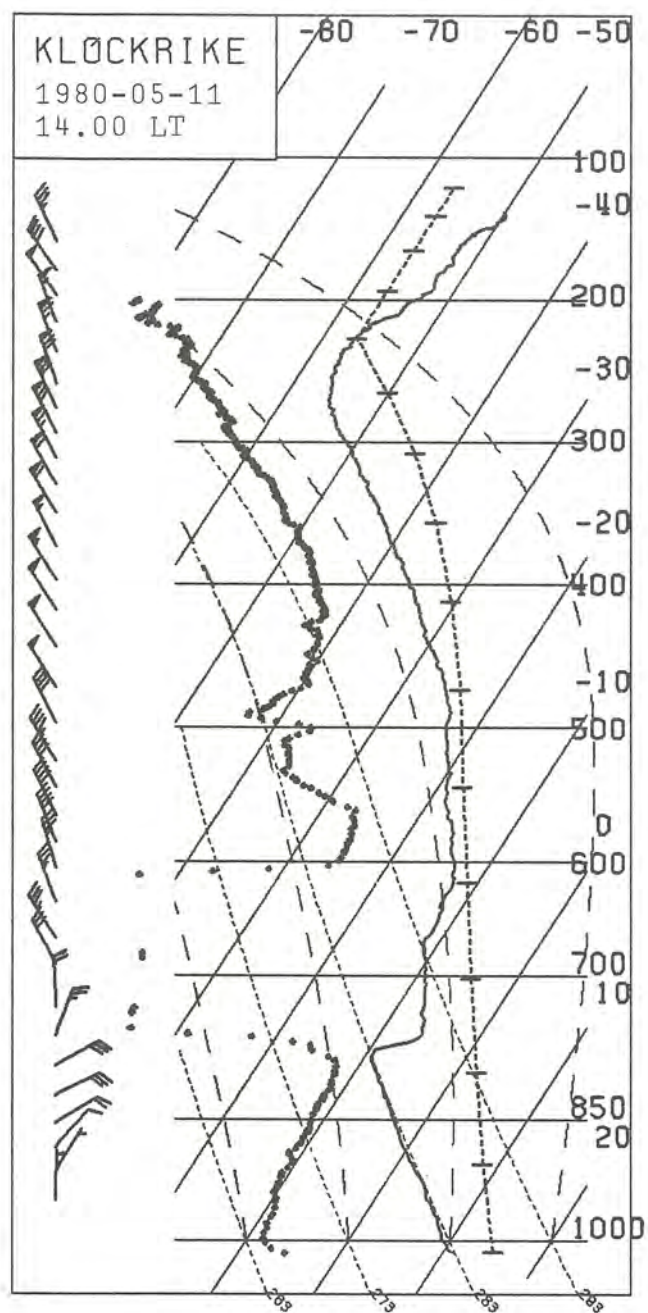
(DEG.C)  
(G/KG)  
(M/S)

HEIGHT (M)

1980-05-11 11.00 LT

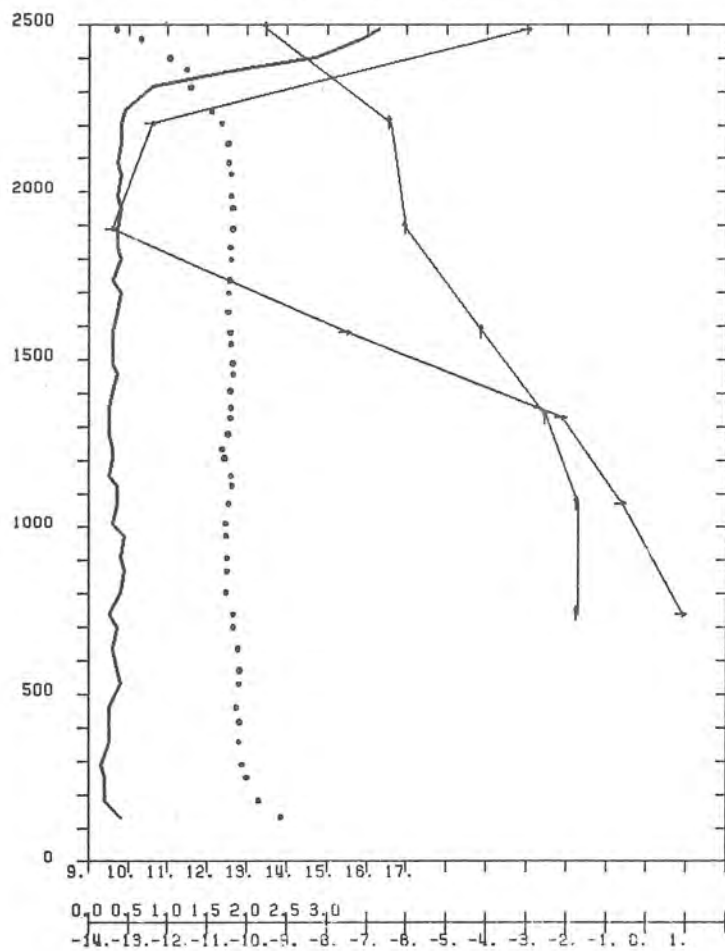


(DEG.C)  
(G/KG)  
(M/S)



HEIGHT (M)

1980-05-11 14.00 LT



(DEG. C)

(G/KG)

(M/S)



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