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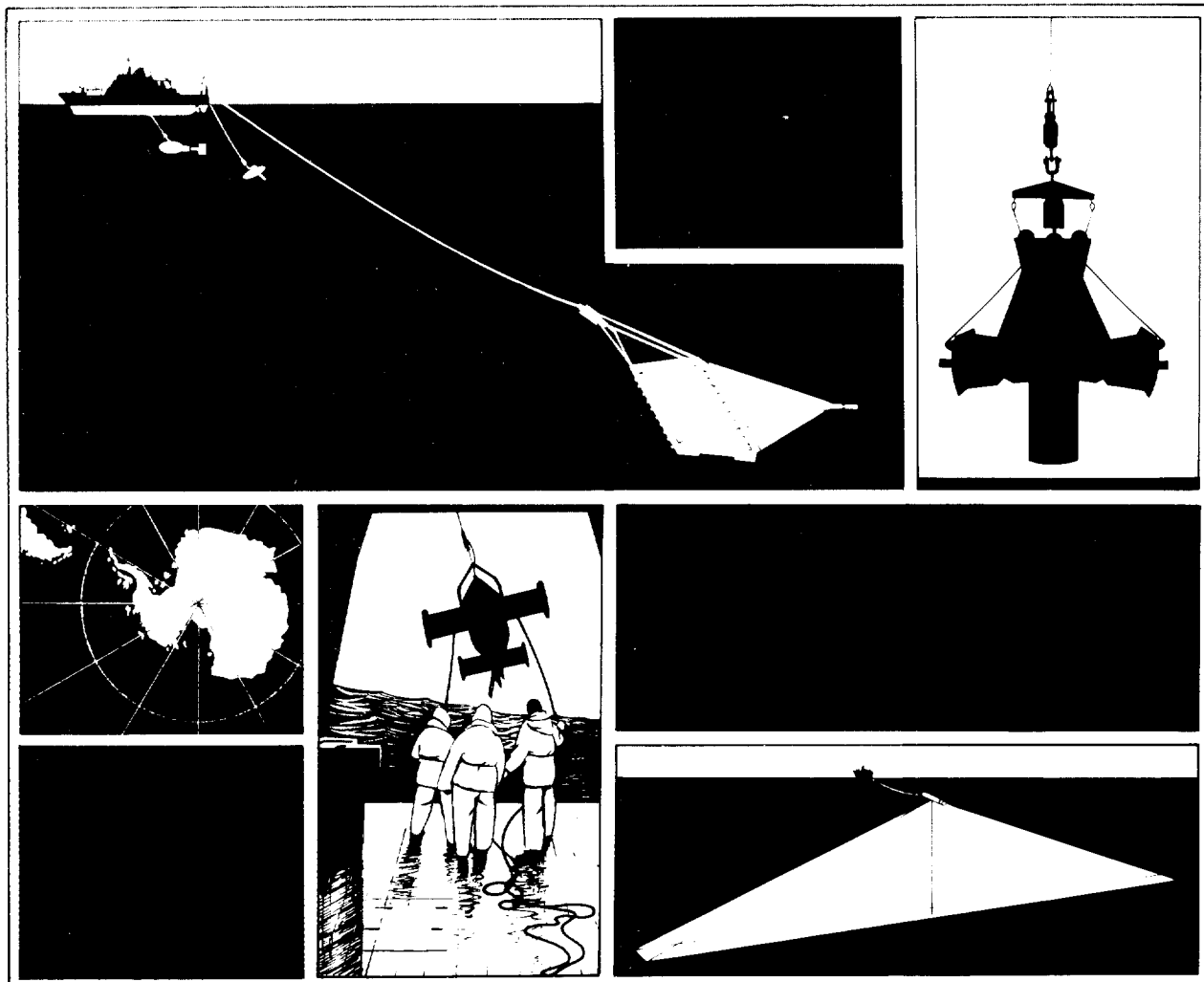Deacon Laboratory**

Radiosonde data collected on the ERS-1 validation cruise RRS *Charles Darwin* Cruise 62A, Iceland Faeroes region

T N Forrester & T H Guymer

Report No 297 1992

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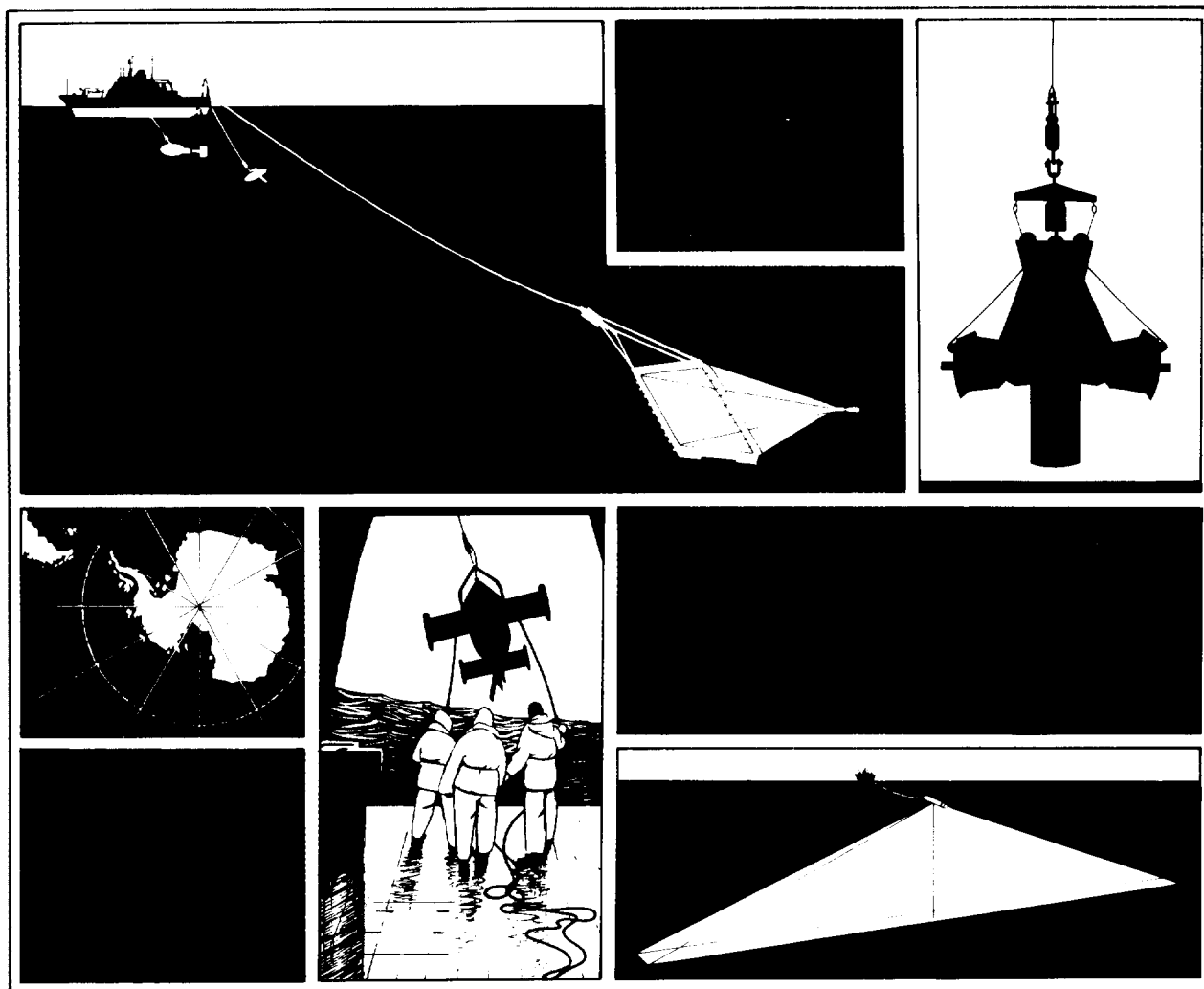
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TITLE

Radiosonde data collected on the ERS-1 validation cruise RRS *Charles Darwin* Cruise 62A, Iceland Faeroes region.

REFERENCE

Institute of Oceanographic Sciences Deacon Laboratory, Report No. 297, 83pp.

ABSTRACT

This report presents radiosonde measurements made during September 1991 in a survey region to the north east of the Faeroe Islands, during the ERS-1 validation cruise.

A total of 35 radiosondes were launched (two per day). Data from 34 ascents processed between values of pressure at the surface and at 200mb (approximately 11.8km high) are presented in this report.

Atmospheric temperature and relative humidity were observed and potential temperature and specific humidity were calculated from these observations.

KEYWORDS

ATMOSPHERIC TEMPERATURE   VALIDATION
"CHARLES DARWIN"/RRS - cruise(1991)(62A)
ERS-1
POTENTIAL TEMPERATURE
RADIOSONDE
RELATIVE HUMIDITY
SPECIFIC HUMIDITY

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CONTENTS

page

1. INTRODUCTION

As part of the objectives of the RRS *Charles Darwin* Cruise 62A (September 6, 1991 to September 26, 1991), which were to validate the data from the sensors on board the ERS-1 satellite (*SROKOSZ*, 1992), a series of radiosonde ascents through the atmosphere was made. The data collected from these ascents give a description of the prevailing atmospheric conditions and will also be used to validate atmospheric water vapour data from the microwave sounder, which is a component of the Along Track Scanning radiometer (ATSR). This quantity is required to correct altimeter range measurements and to validate the correction for atmospheric absorption in ATSR sea surface temperature retrievals. It will also be used to generate revised coefficients for the split window atmospheric correction algorithms used in the generation of Advanced Very high Resolution Radiometer (AVHRR) sea surface temperature retrievals. The area of the cruise was in a region to the north east of the Faroe islands. The ship's track taken during the cruise was set around a triangle designed such that two of the sides coincided with an ascending and descending ground track of ERS-1.

FIG.1 SHOWS THE LOCATION OF EACH RADIOSONDE ASCENT DURING THE SURVEY
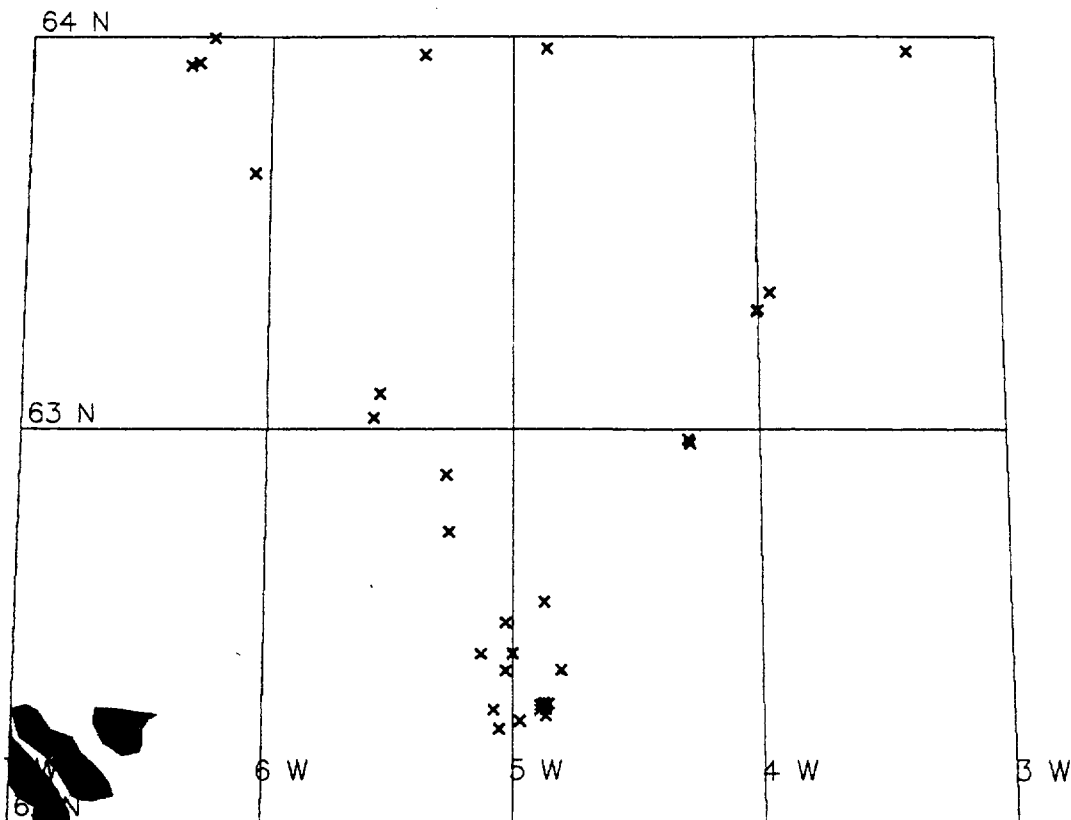
2. COLLECTION OF RADIOSONDE DATA

Vaisala RS-80-15 sondes, measuring temperature, pressure and relative humidity were launched twice per day from Days 250 to 267 using 200 g TOTEX balloons fitted with string unwinders. Ascents were generally timed for 1100Z and 2300Z but were adjusted when ERS-1 altimeter overpasses occurred to be a few minutes before the overpass time (1153 and 2145Z). A total of 35 flights were made most of which reached a height of greater than 50 mb, well into the stratosphere (see Table 1). On one occasion the sonde reached only 690 mb before slowly descending due, it is suspected, to leakage of gas from the neck of the balloon. The data from this ascent was not processed and a replacement ascent were conducted soon after.

The Vaisala RS-80-15 sondes were connected to a power supply and the reception of their signal was tested. The calibration data supplied with each sonde from the manufactures were put into the PTU Processor, as were any corrections for the temperature sensor (T_{cor}, Table 1), which was calibrated against a dry bulb mercury thermometer, plus any corrections to the humidity sensor (U_{cor}, Table 1), which were determined by placing the sensor into a sealed tub containing a dessicant, thereby creating an environment of zero humidity. As close as possible before the launch a water activated battery was connect to the sonde.

Balloons were inflated in a restrainer, placed on the aft portion of the boat deck (port side) with plastic tubing connecting it to helium bottles secured on the aft deck. Launching usually required two people, although in light winds (< 10 m/s) one would be sufficient. Provided the relative wind was at least 20 degrees on the starboard bow balloons could be released clear of obstructions for all wind strengths. In light winds a wide range of relative wind directions could be tolerated. Successful launches were made in winds up to 20 m/s. On two or three of the strong wind occasions, however, the balloons were caught in eddies shed by the ship which caused the sondes to come very close to hitting the sea. The best way of avoiding this was for the person launching the balloon to wait for a suitable lull using the pull of the wind on the balloon to judge the optimum moment for release.

Signals from the sondes were received by a Vaisala UR-15 unit via an omni-directional antenna located on the port rail of the wheelhouse top. Strong signals were obtained by the receiver which was being used for the first time (in place of the ancient and unwieldy LO-CATE W2 set). The receiver performed extremely well, the only problem being interference from other sondes launched from upper air meteorological stations. This was overcome by re-tuning our sondes' transmitting frequencies to greater than 404 MHz. After passing through the PTU Processor the calibrated data were displayed and written to floppies using a BBC Master microcomputer.

3. PROCESSING OF RADIOSONDE DATA

The data were transferred to 3.5" floppy disks in MSDOS format on the BBC Master and then transferred to the SUN's via an Apple Macintosh. Initially there were 5 data fields, the first two of which were house keeping data and were not used in the processing except in the case of the second variable, which is used as a dummy variable.

Editing the raw data

The data were edited to within a range which started from the maximum pressure immediately before launch to a minimum pressure of 200mb. This minimum pressure is equivalent to an approximate height of 11.8km.

De-spiking

Firstly the data were converted into Pstar format (an IOSDL internal processing system format) and initially de-spiked by deleting all data outside a set of limits e.g:

Variable	maximum	minimum
Pressure (mb)	max at sea level	200
Temperature (°c)	15	-60
Relative Humidity (%)	100	0

It was then further de-spiked using a modified version of the program "PSPIKE" which converted any data outside a set range into missing data, e.g.

Variable	Range
Pressure (mb)	10
Temperature (°c)	5
Relative Humidity (%)	10

Final de-spiking was done by deleting data corresponding to a pressure value that did not monotonically decrease with time.

Calculating Potential temperature and specific humidity

Potential temperature (θ) was calculated from the observed pressure and temperature using the pstar program PRPOTEMP. The equation was taken from *(STULL,*1988) with form:

$$\theta = T * (P_O/P)^{0.286}$$

where T is the air temperature (K), P is the air pressure and P_O is a reference pressure set to 1000mb.

Specific humidity was calculated using the observed pressure, temperature and relative humidity in the pstar program PSHUM. The Priestly-Taylor Method was used, taken from *(STULL,*1988)

$$e_{sat} = r * 6.1078 * \exp (17.67 * T) / (T + 237.3)$$

$$q = [(0.622 * e_{sat} / (P - 0.378 * e_{sat})] * 1000$$

where e_{sat} is the saturation vapour pressure, T is temperature (°C), r is relative humidity (%) and q is specific humidity (g/kg).

The third variable was created by converting one of the redundant house keeping variables to become equal to the time of day of each ascent. This was required by the pstar program pgridh in order to generate the time height plots.
Finally all the data were averaged over an interval of 5mb pressure using PAVRGE.

4. PLOTS OF AND LISTINGS OF DATA

Separate plots of each variable (temperature, relative humidity, potential temperature and specific humidity) pertaining to all the ascents are shown in Figures 2 to 35, in each case the y axis (pressure) can be interpreted as height through the atmosphere. Time (Julian days) and height (pressure) contour plots for each variable and all ascents over the whole cruise where produced using the pstar programs PGRIDH and UCONTR and are shown in Figures 36 to 39.

Listings of the processed data for each ascent are given in pages 50 to 83. They include the maximum and minimum range of values for each variable and every fourth data value is listed.

5. REFERENCES

SROKOSZ, M.A. 1992 RRS *Charles Darwin* Cruise 62A 06 Sept - 28 Sept 1991.
    ERS-1 calibration and validation in the region of the Iceland-Faeroes front,
    Institute of Oceanographic Sciences Deacon Laboratory, Cruise Report no. 229, 49pp.

STULL, R.B. 1988 An introduction to boundary layer meteorology.
    Dordrecht: Kluwer Academic. 649pp.

Table 1 Radiosonde Ascents on Cruise 62A

Ascent number	Day/Time	Tcor	Ucor	Height mb	Latitude °N	Longitude °W
1	250/1144	0	0	221	58 27.4	5 59.3
2	250/2337	-0.2	2	148	60 18.4	5 16.7
3	251/1115	-0.1	1	120	62 18.3	4 61.1
4	251/2308	-0.2	2	350	62 44.7	5 17.6
5	252/1110	-0.2	2	29	63 55.7	6 17.2
6	252/2159	-0.4	1	39	63 59.8	6 11.7
7	253/1140	-0.2	1	53	62 18.0	4 54.9
8	253/2142	-0.2	1	25	62 17.6	4 54.9
9	254/1120	-0.3	2	61	62 18.5	4 54 3
10	254/2325	-0.2	1	23	63 02.0	5 35.0
11	255/1126	0.1	1	45	63 57.2	5 23.1
12	255/2144	-0.4	1	44	63 57.7	3 32.2
13	256/1120	-0.4	0	30	62 58.7	4 22.1
14	256/2135	-0.4	1	29	62 26.1	5 02.7
15	257/1010	-0.3	2	43	63 39.4	6 02.5
16	257/2301	-0.4	0	45	62 53.3	5 18.3
17	258/1140	-0.1	0	43	62 23.5	5 04.5
18	258/2325	-0.1	1	31	62 30.8	5 27.2
19	259/1135	0	1	41	62 18.6	4 55.3
20	259/2140	0	1	50	62 17.5	5 07.2
21	260/1138	-0.2	0	60	62 23.6	4 52.3
22	260/2309	-0.3	0	50	62 17.6	4 56.1
23	262/1130	-0.2	0	42	62 15.8	5 01.1
24	262/2130	-0.1	1	52	63 05.6	5 33.4
25	263/1122	-0.3	1	41	63 56.1	6 15.4
26	263/2300	-0.8	0	78	63 58.1	4 55.0
27	264/1128	-0.3	0	34	63 21.1	4 03.4
28	264/2334	-0.2	0	81	62 58.1	4 21.7
29	265/1129	0	3	34	62 16.7	4 55.0
30	265/2133	-0.2	0	80	62 14.6	5 06.0
31	266/1059	-0.1	0	35	63 18.5	4 06.2
32	267/0014	-0.1	0	48	62 34.1	4 55.4
33	267/1138	-0.1	-1	30	62 18.3	4 06.5
34	267/2135	0.1	0	39	62 25.1	5 10.1
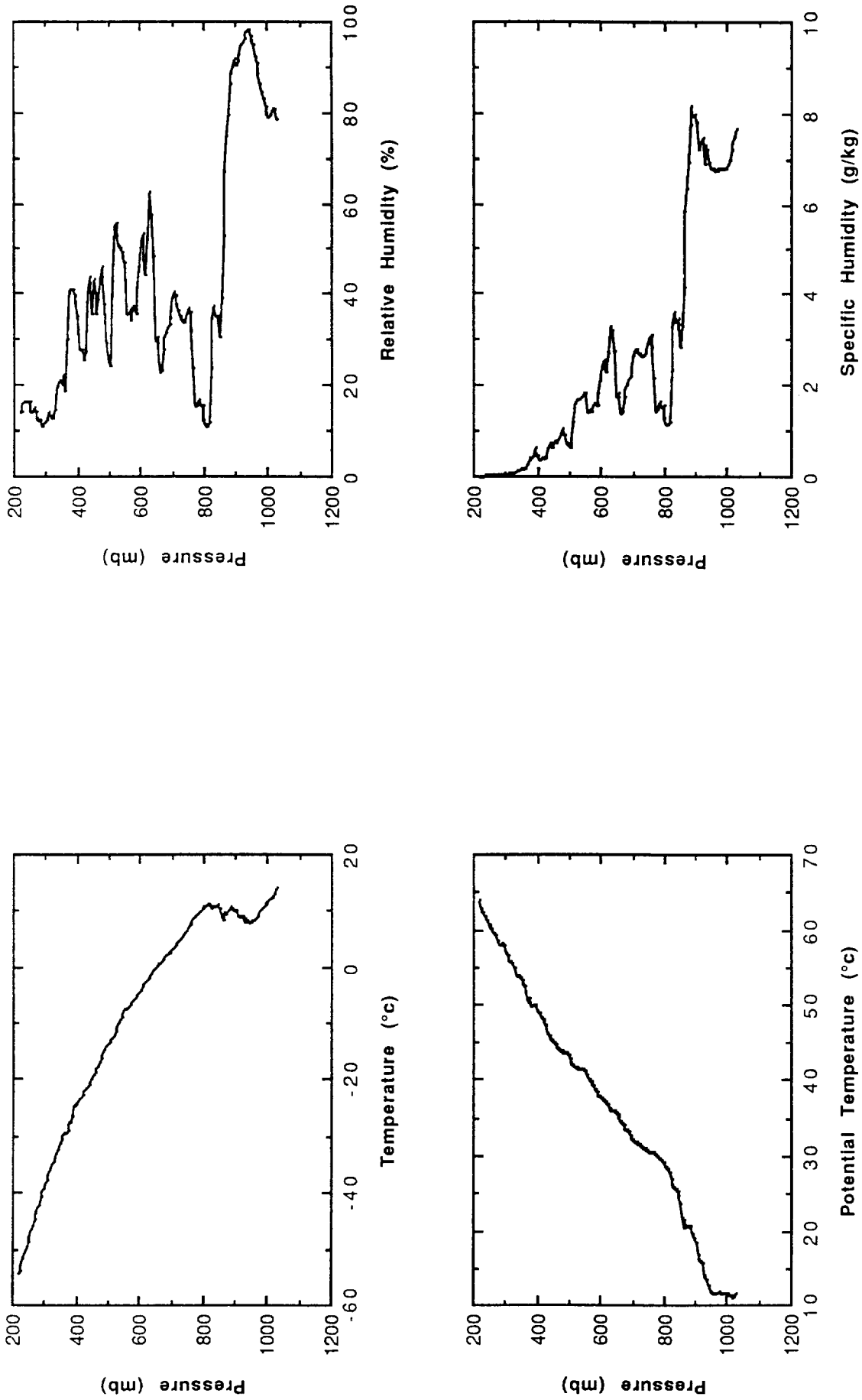
Figure 2. Atmospheric profiles for ascent number 1
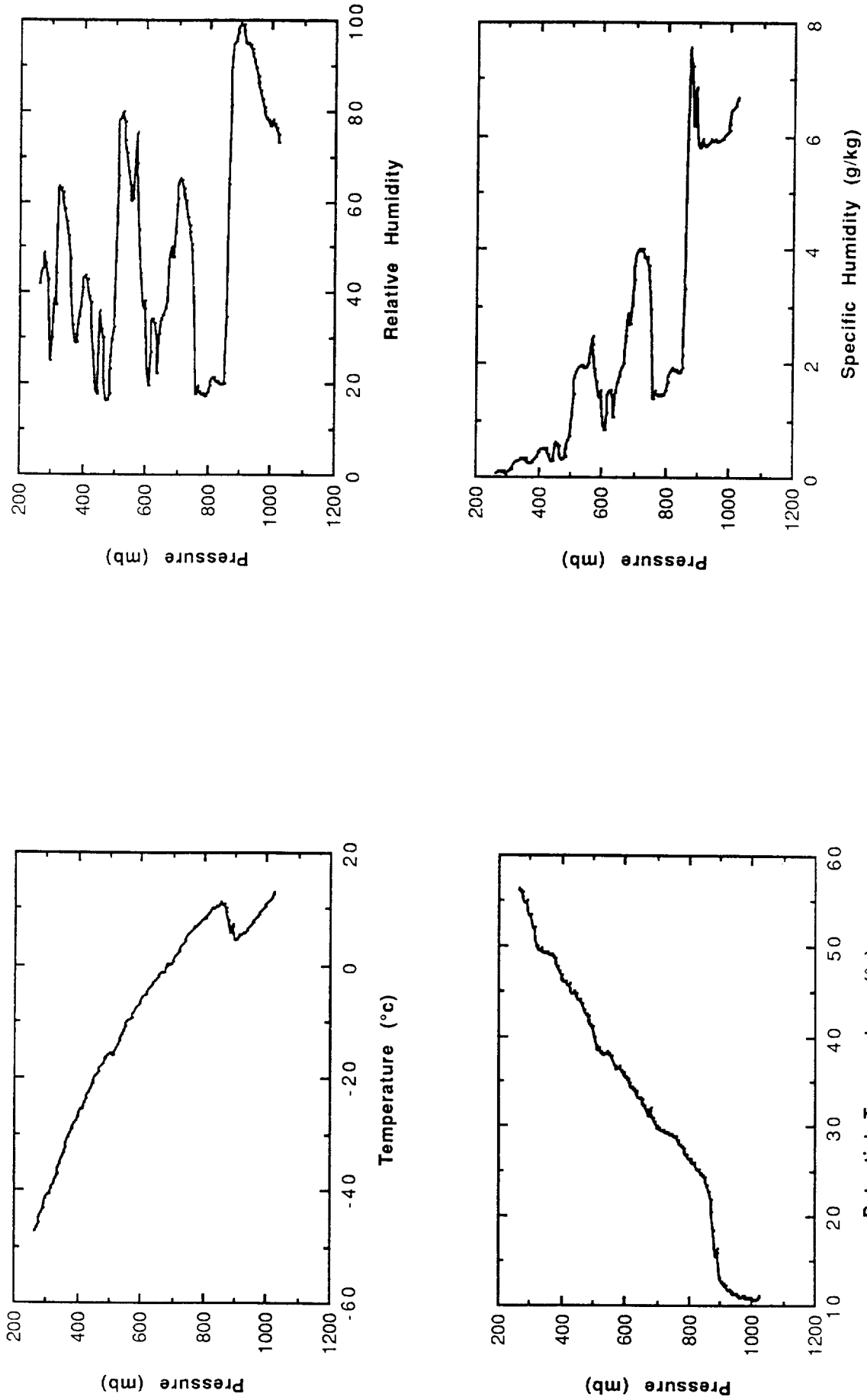
Figure 3. Atmospheric profiles for ascent number 2
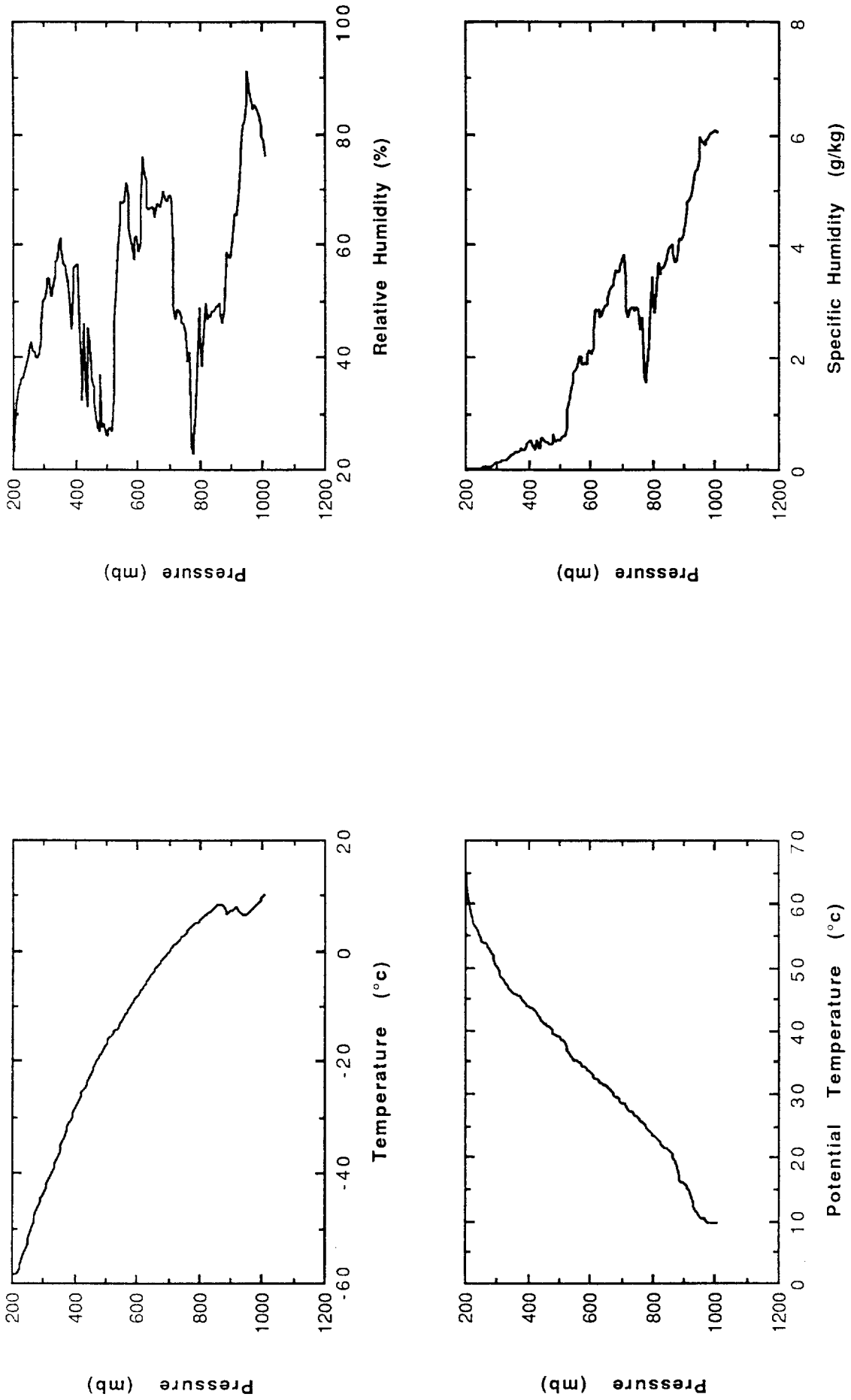
Figure 4. Atmospheric profiles for ascent number 3
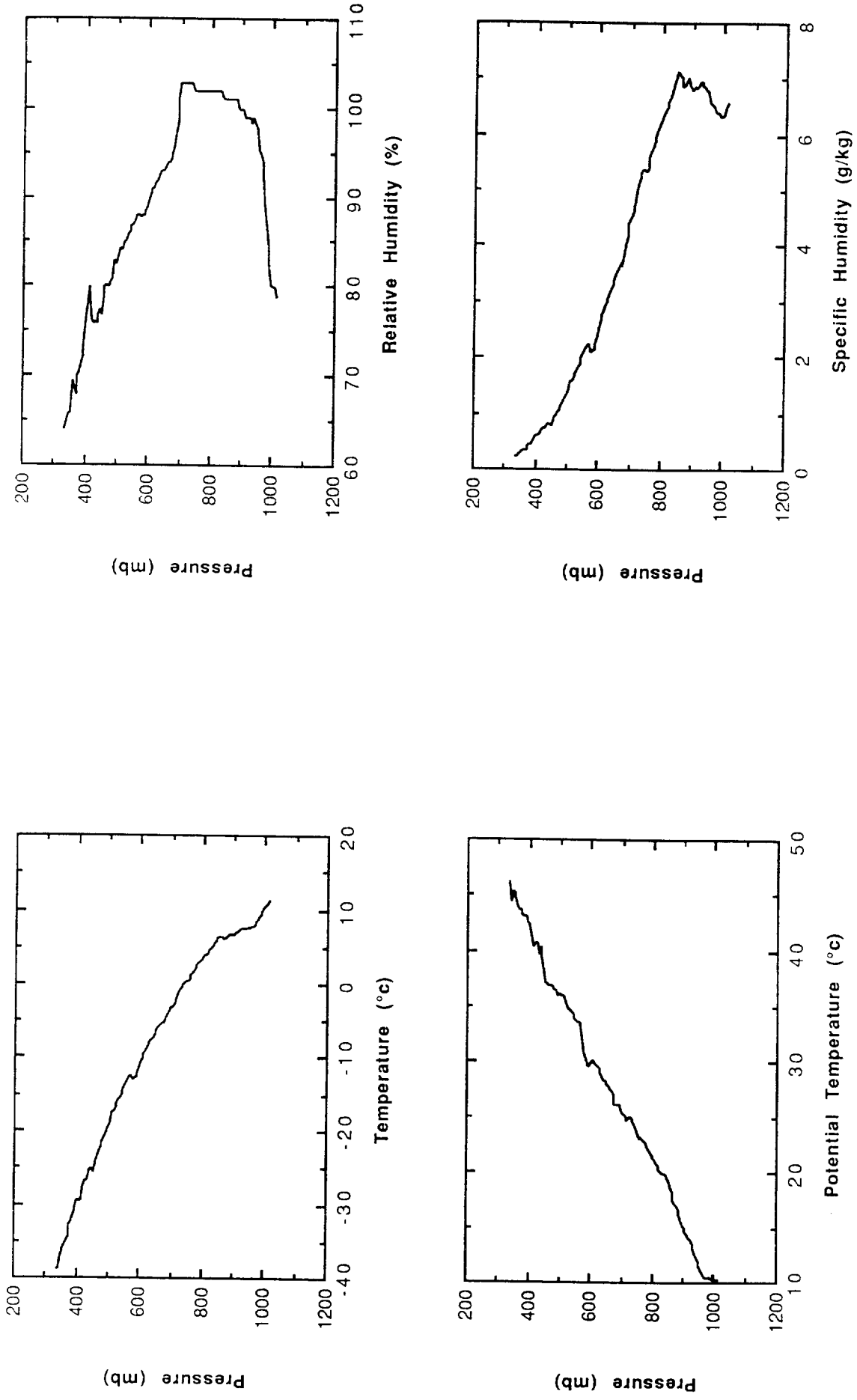
Figure 5. Atmospheric profiles for ascent number 4
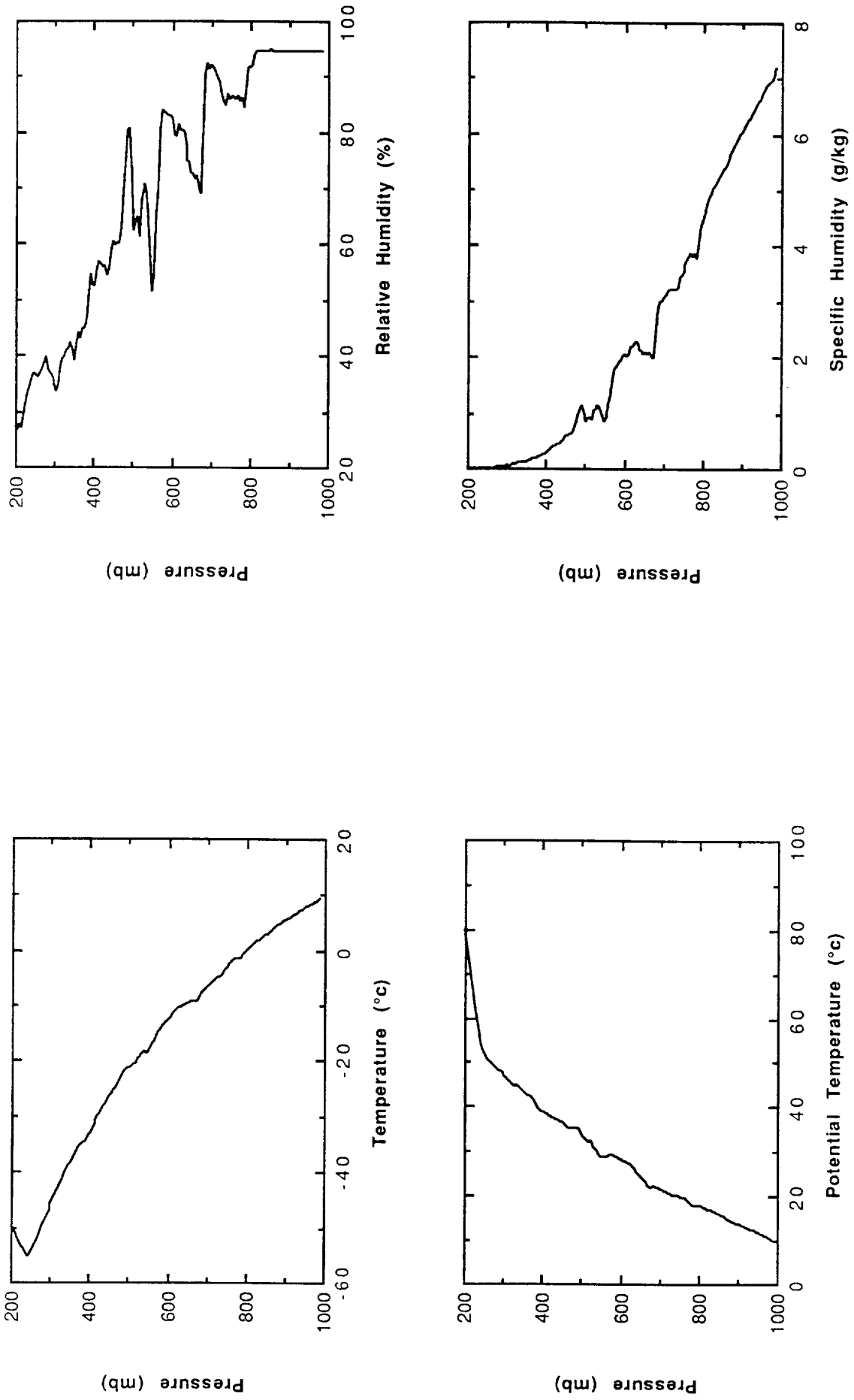
Figure 6. Atmospheric profiles for ascent number 5
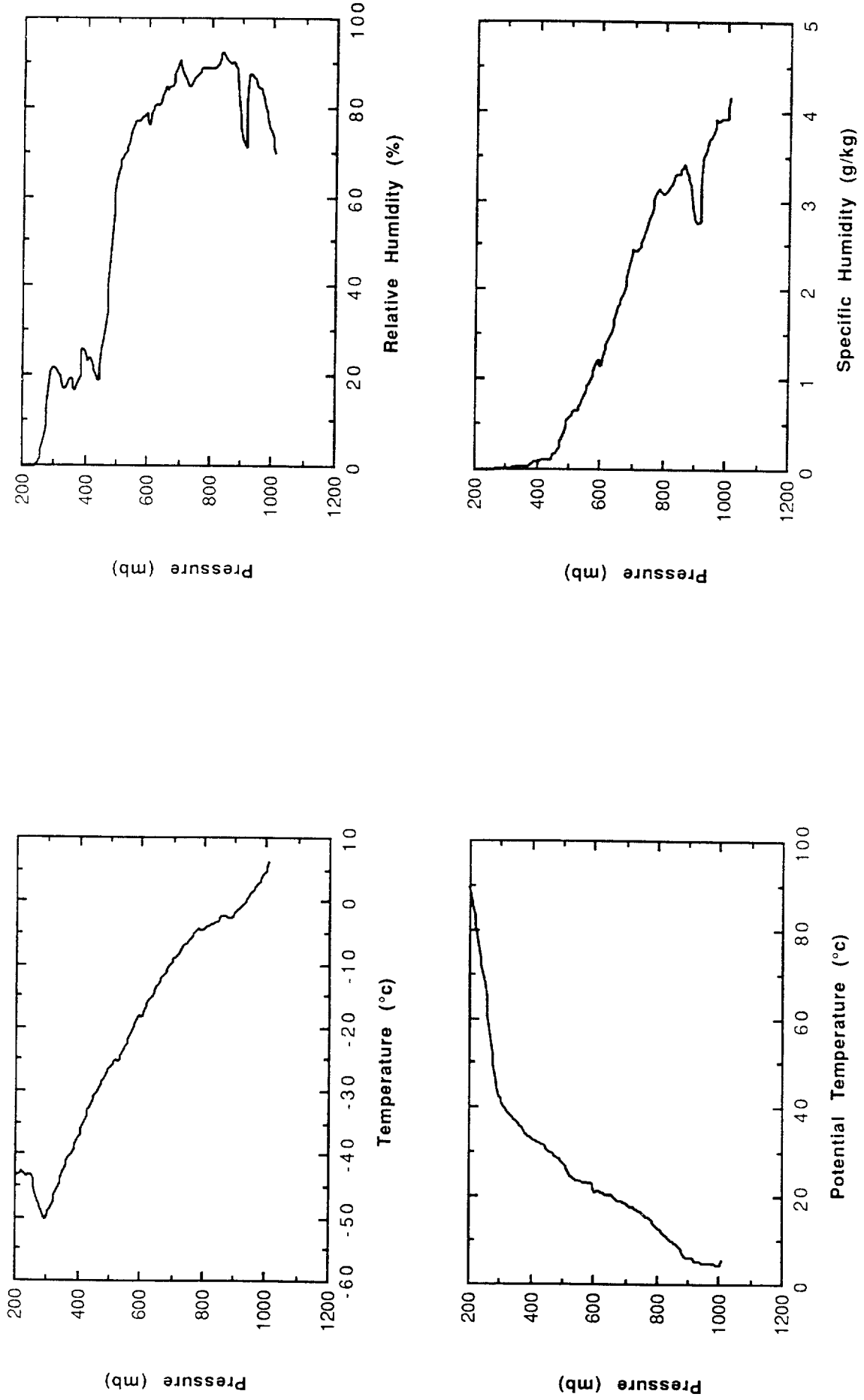
Figure 7. Atmospheric profiles for ascent number 6
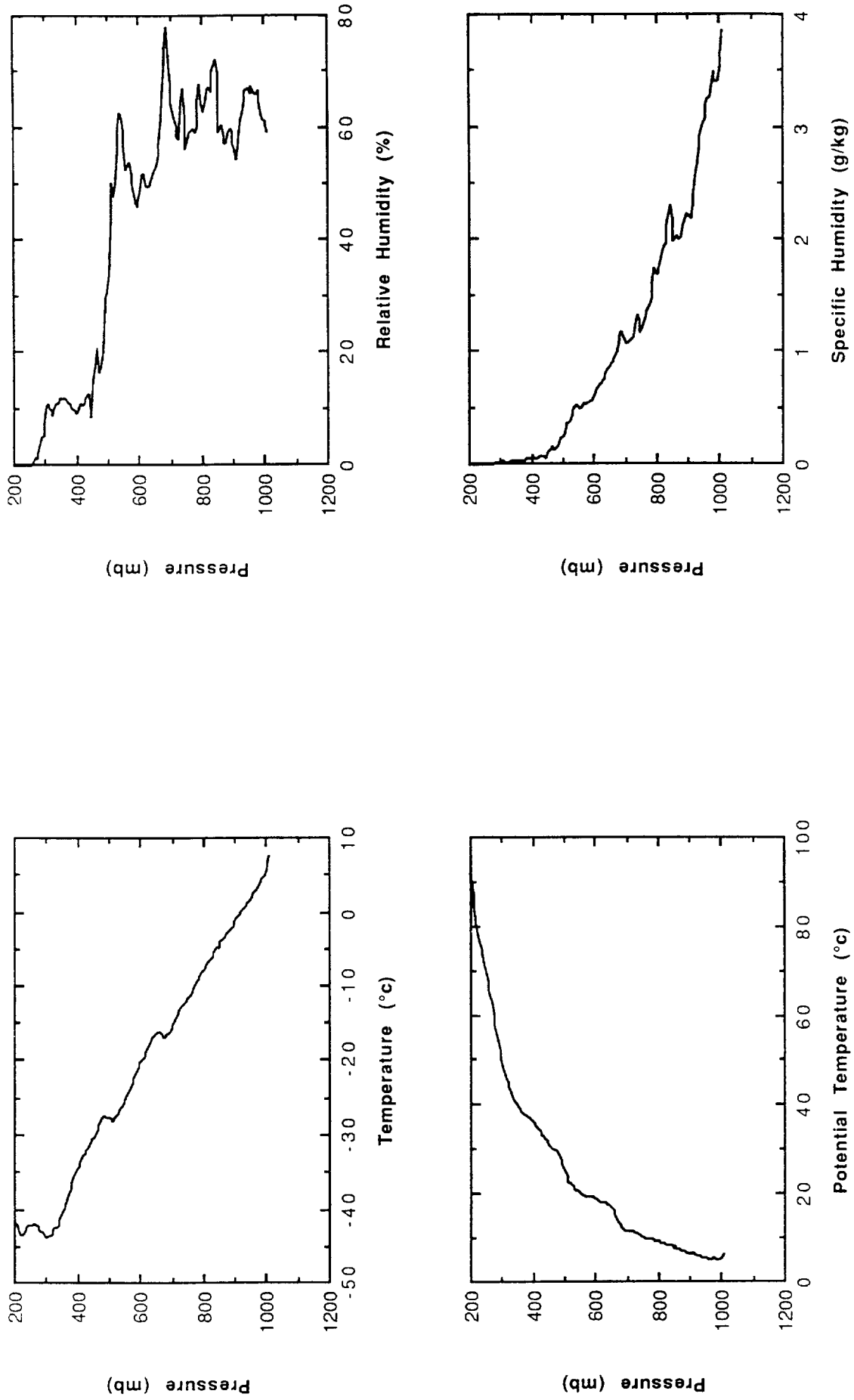
Figure 8. Atmospheric profiles for ascent number 7
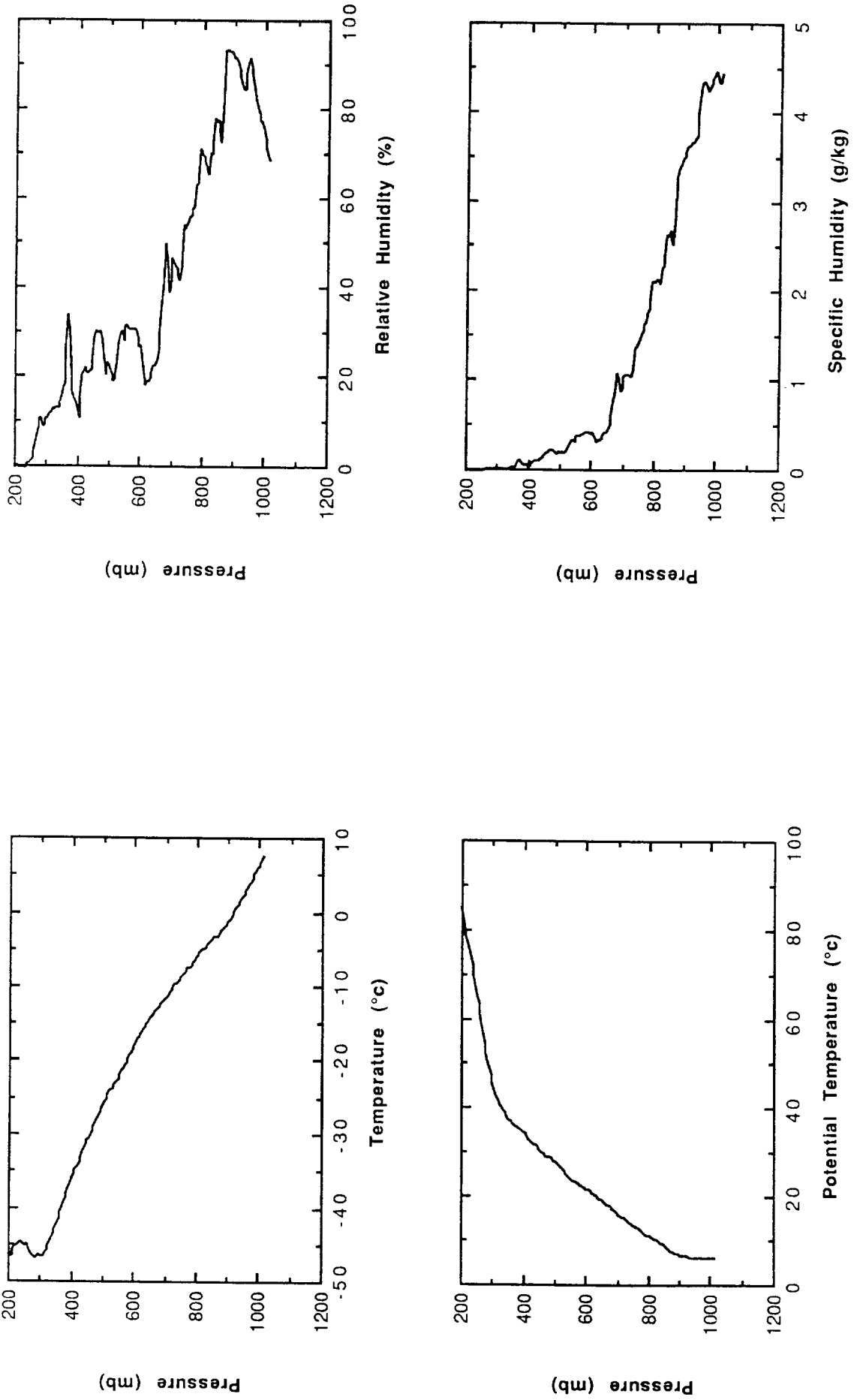
Figure 9. Atmospheric profiles for ascent number 8
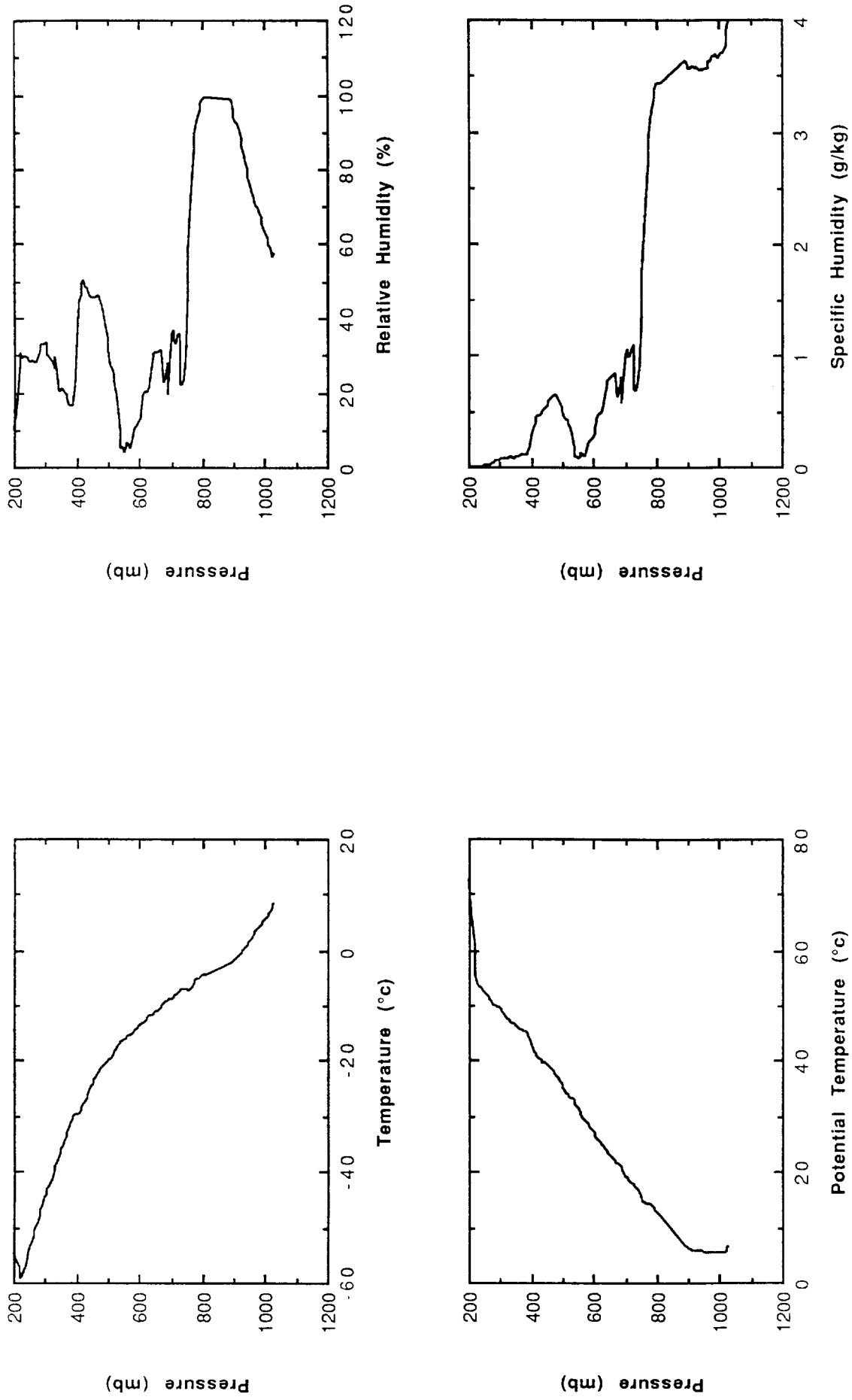
Figure 10. Atmospheric profiles for ascent number 9
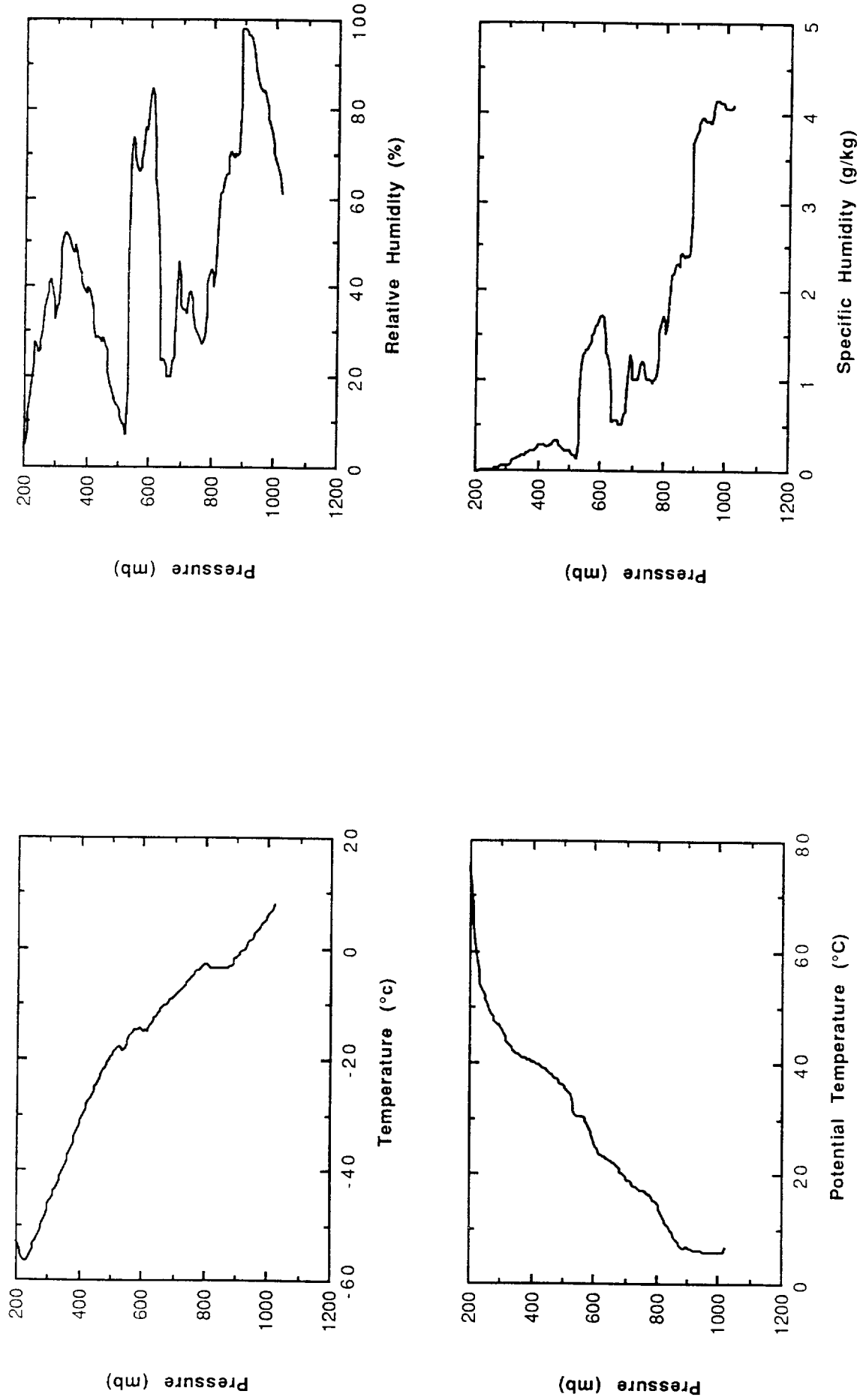
Figure 11. Atmospheric profiles for ascent number 10
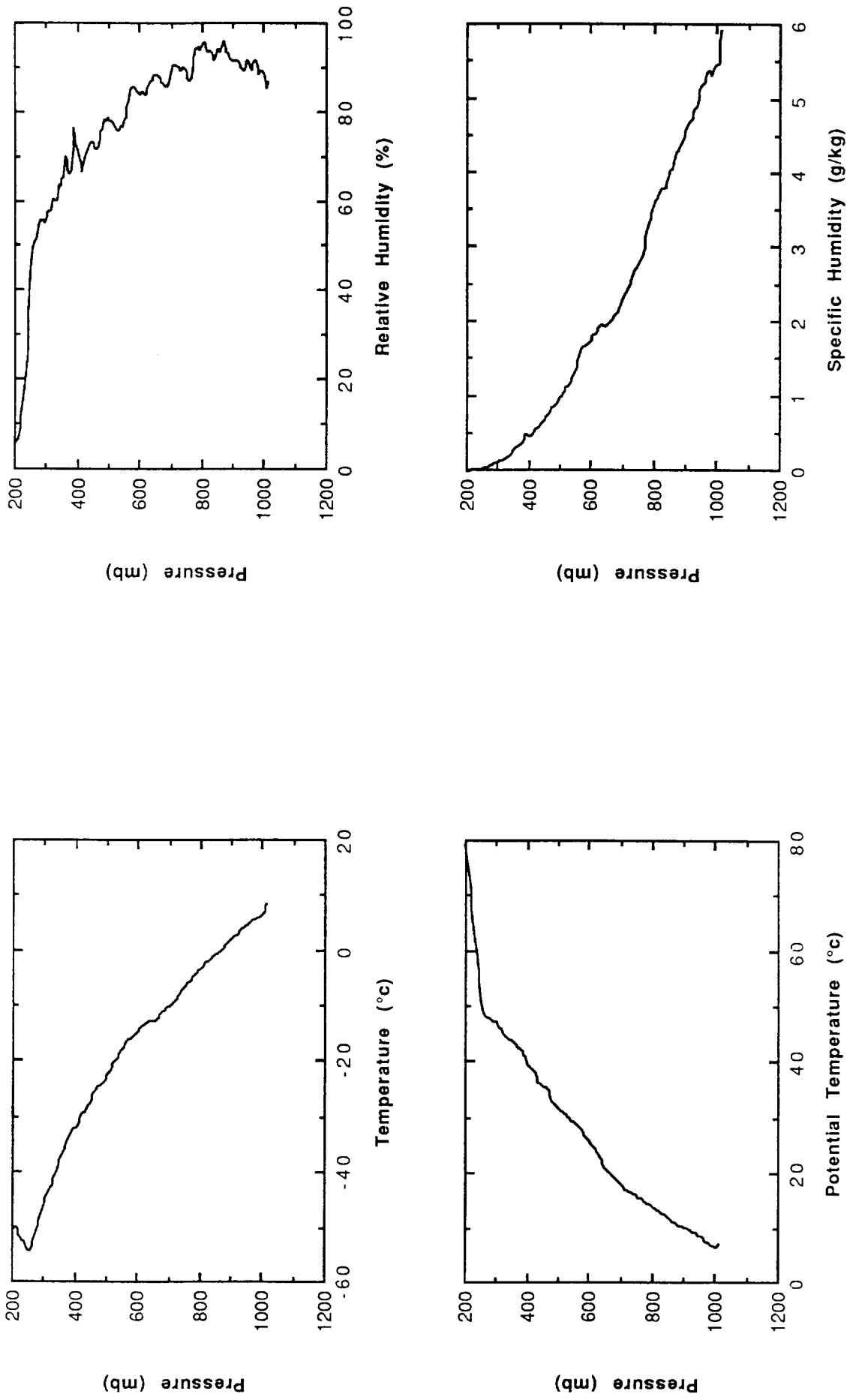
Figure 12. Atmospheric profiles for ascent number 11
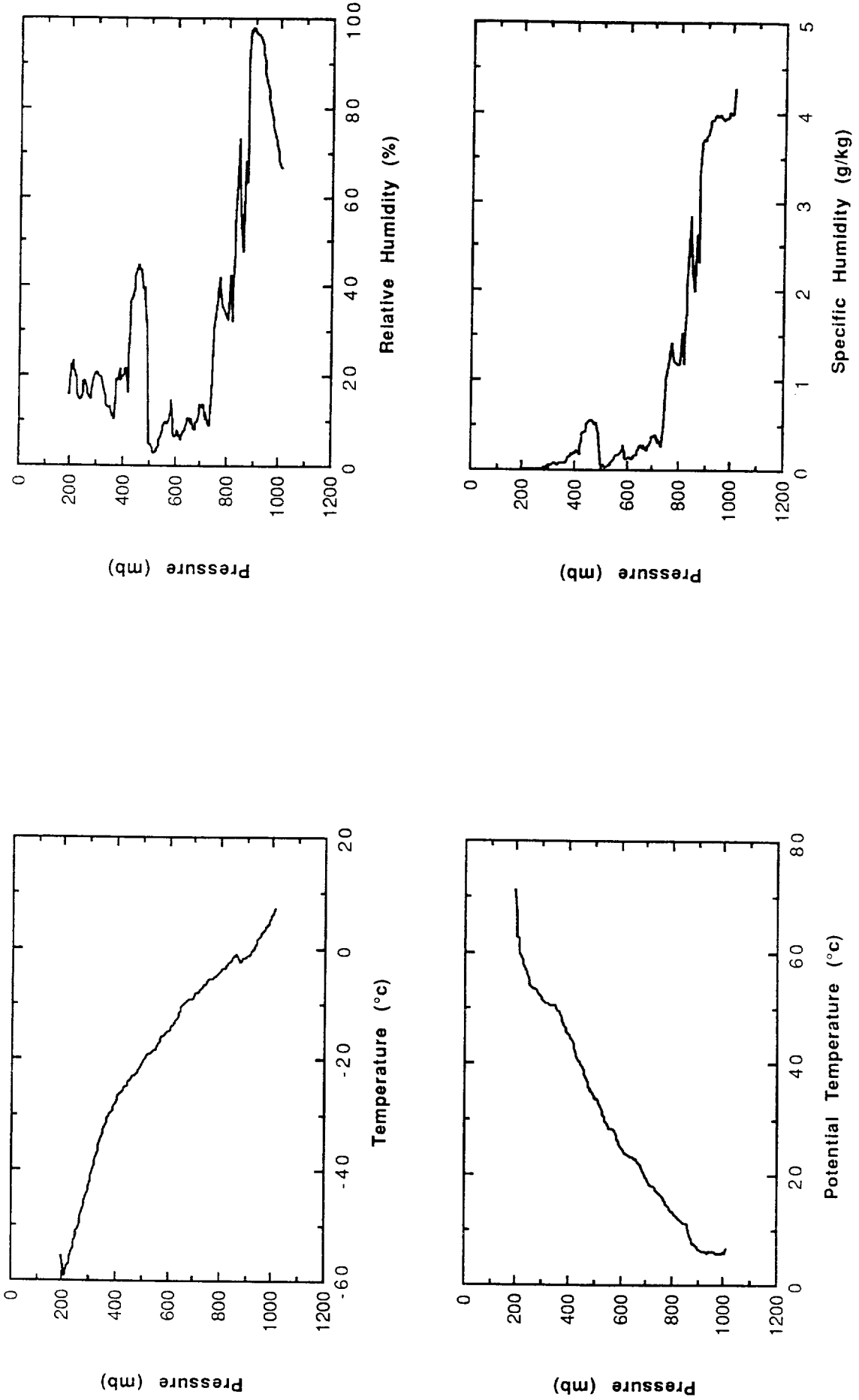
Figure 13. Atmospheric profiles for ascent number 12
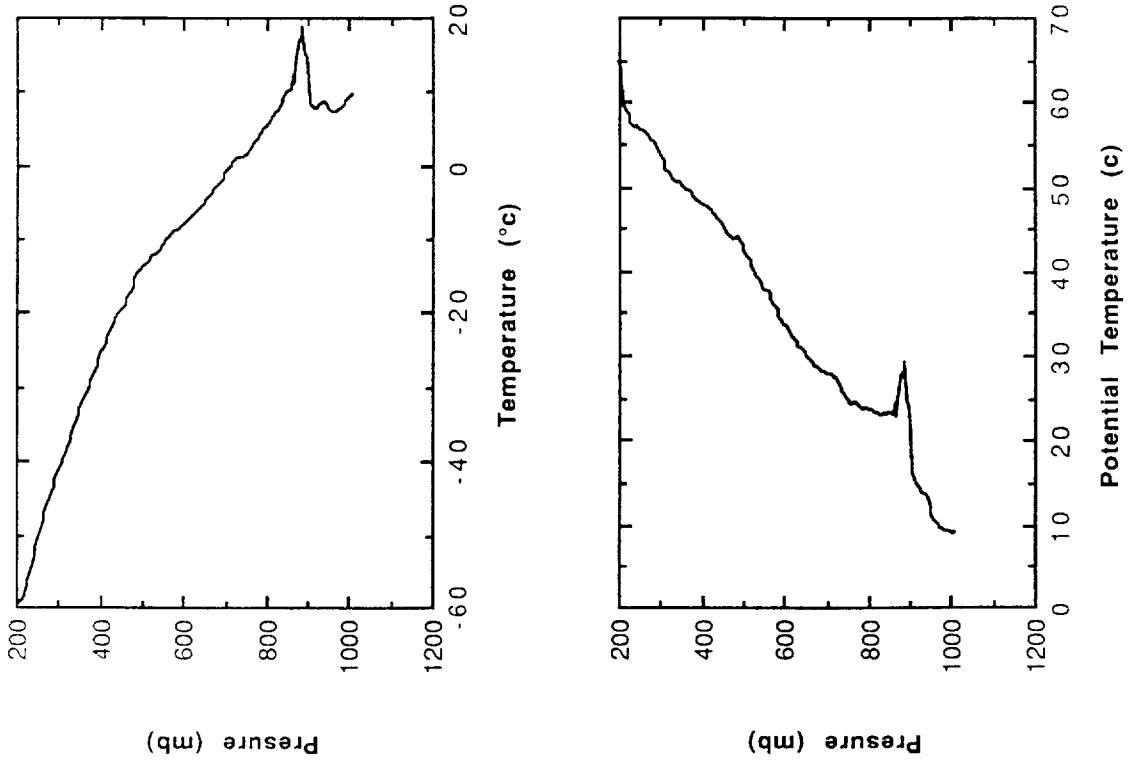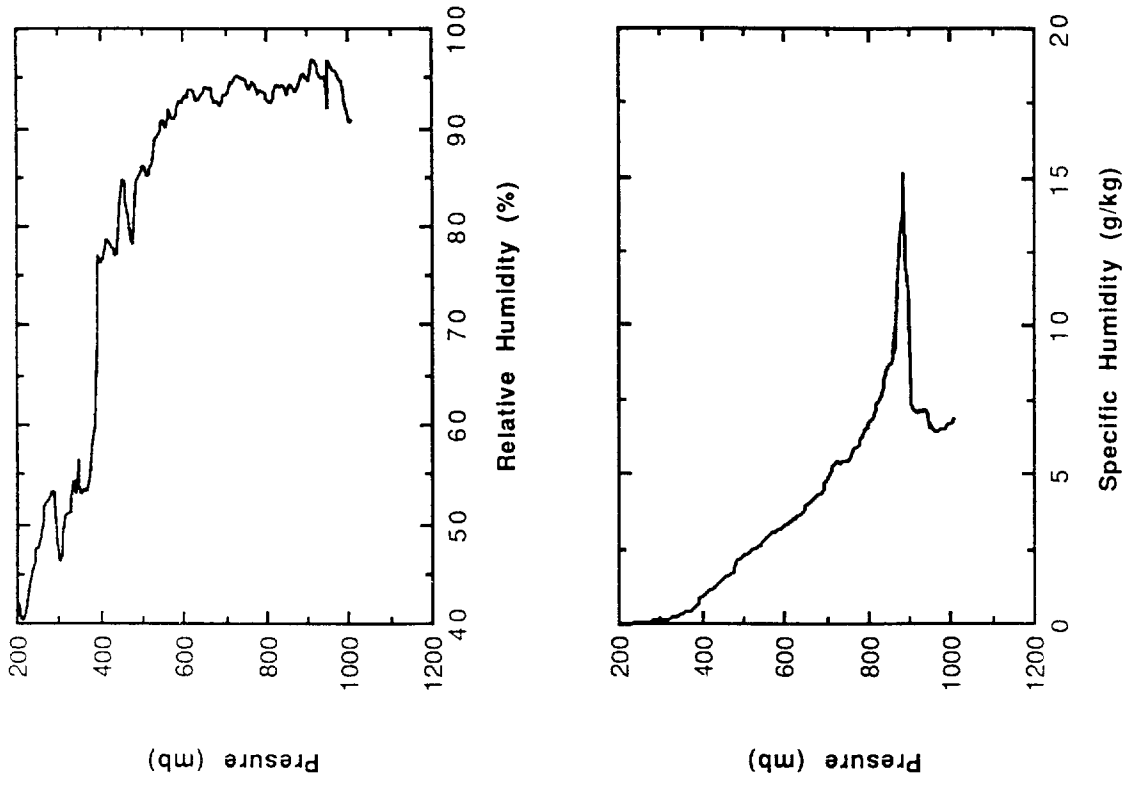
Figure 14. Atmospheric profiles for ascent number 13
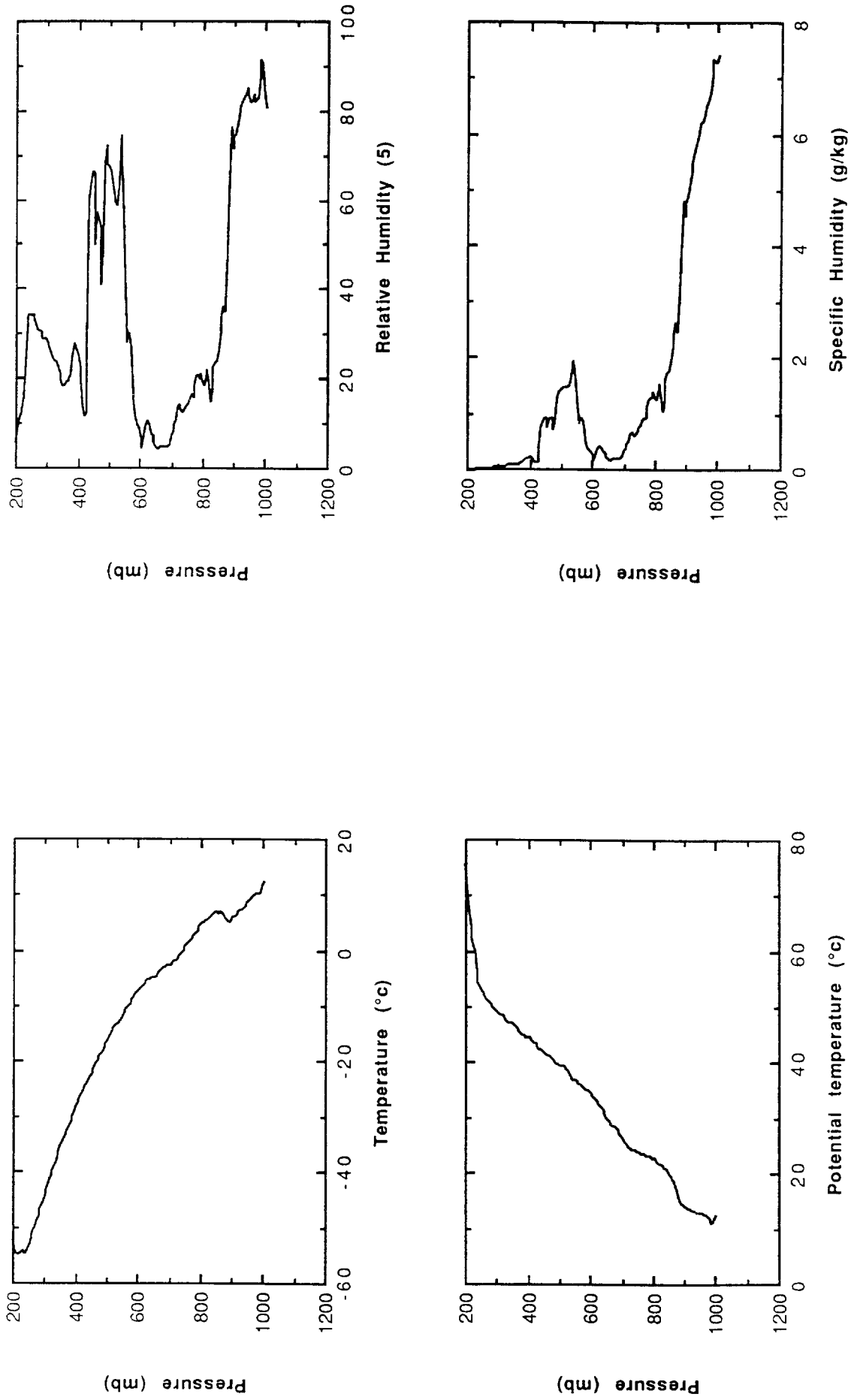
Figure 15. Atmospheric profiles for ascent number 14
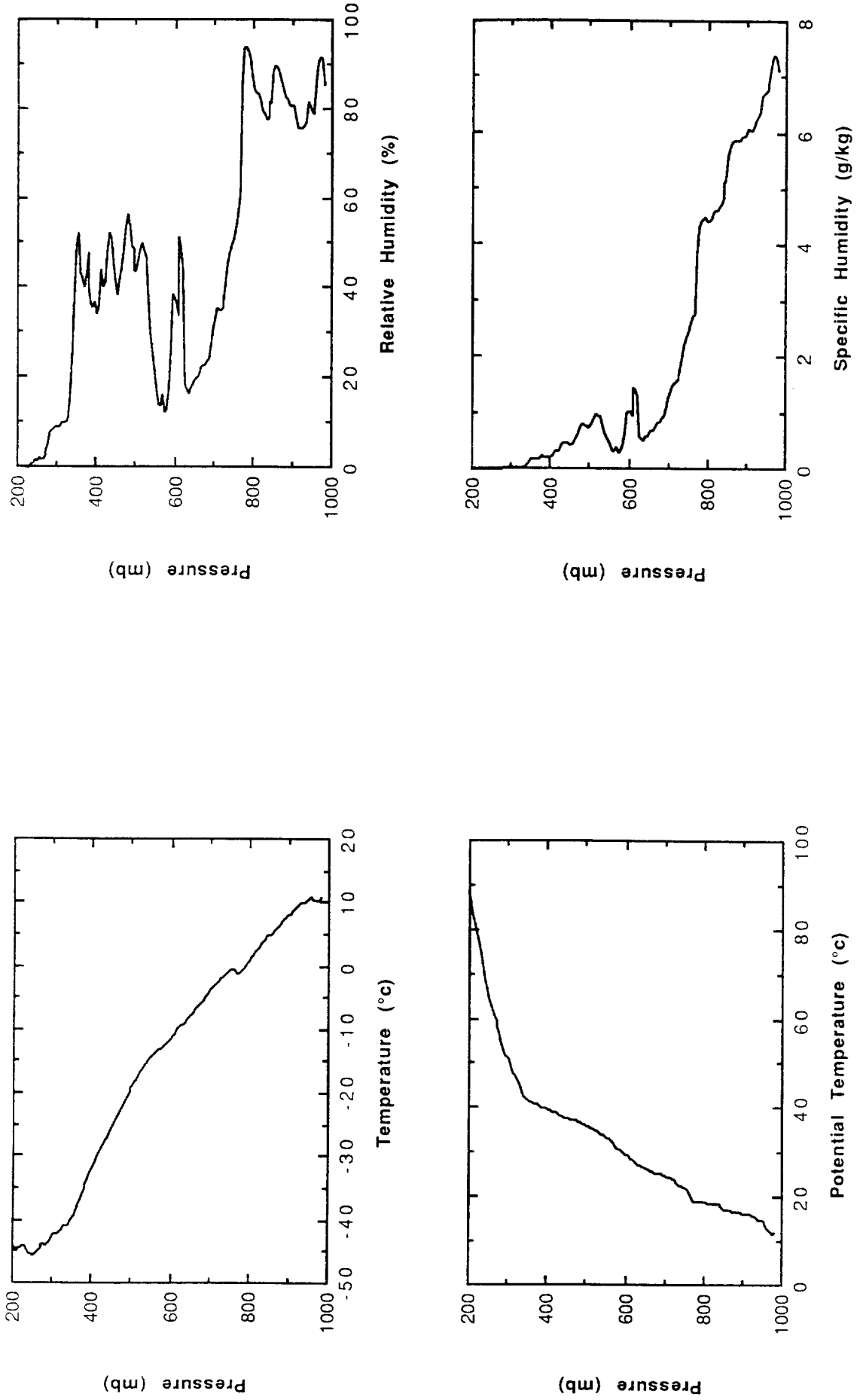
Figure 16. Atmospheric profiles for ascent number 15
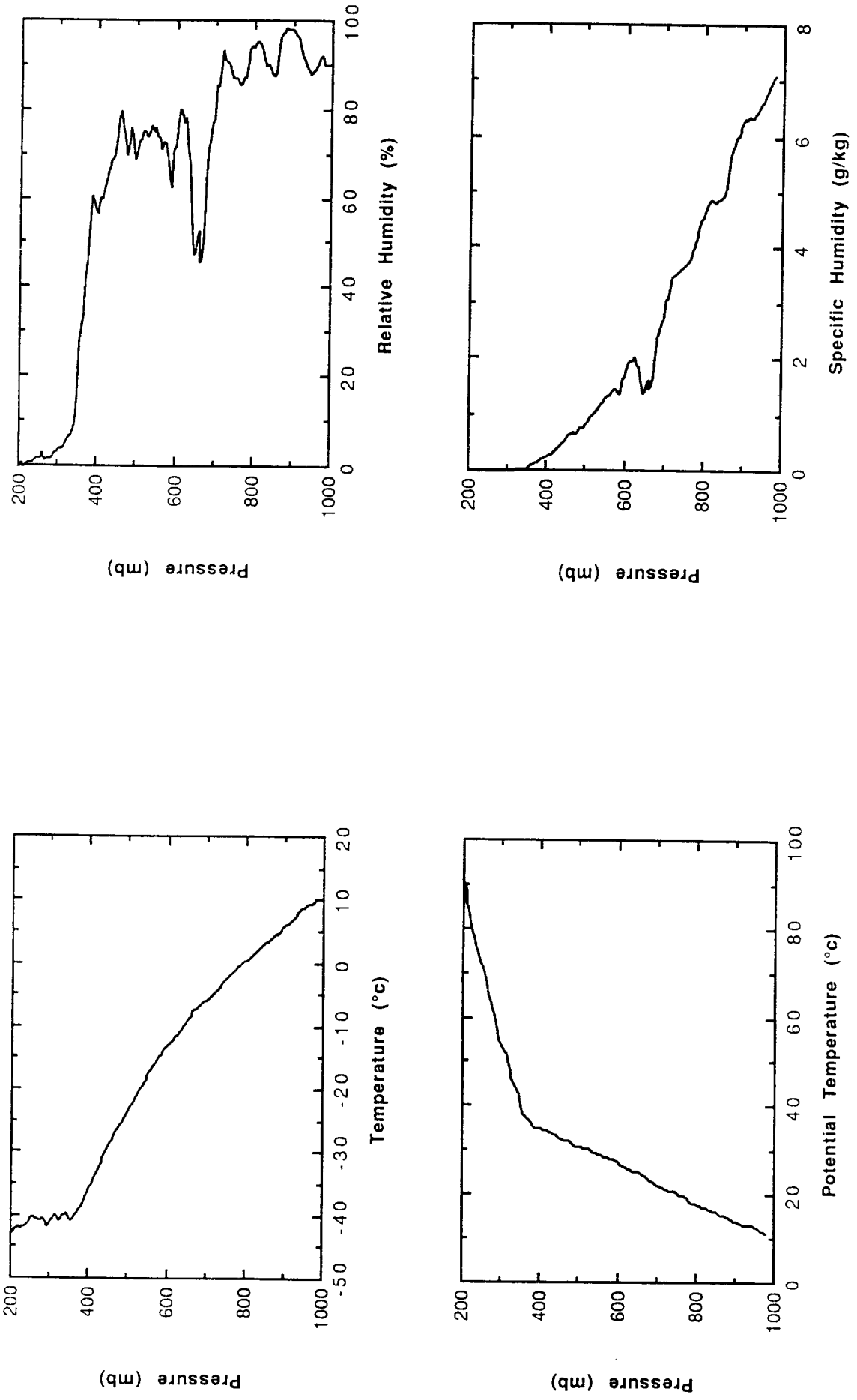
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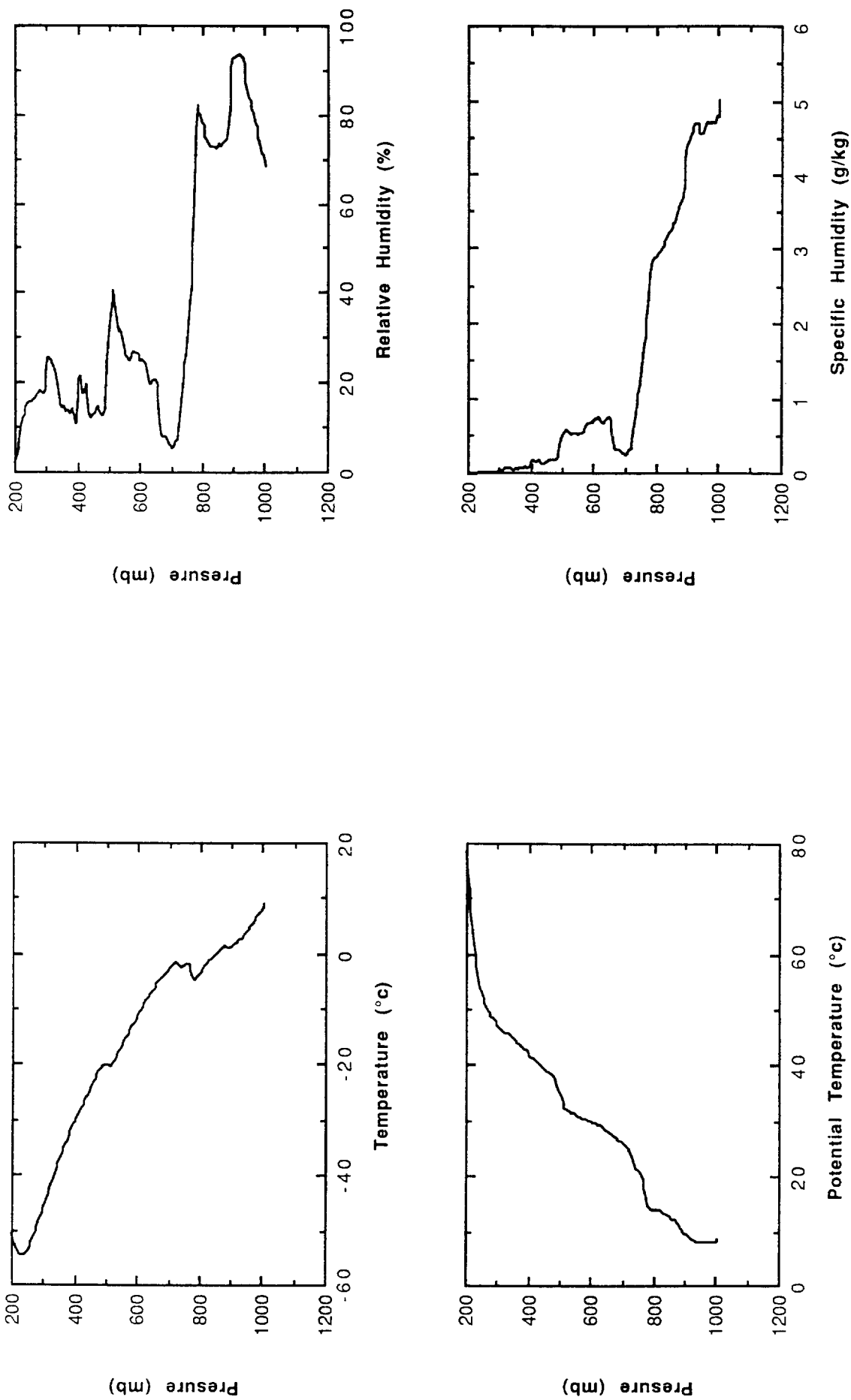
Figure 18 Atmospheric profiles for ascent 17
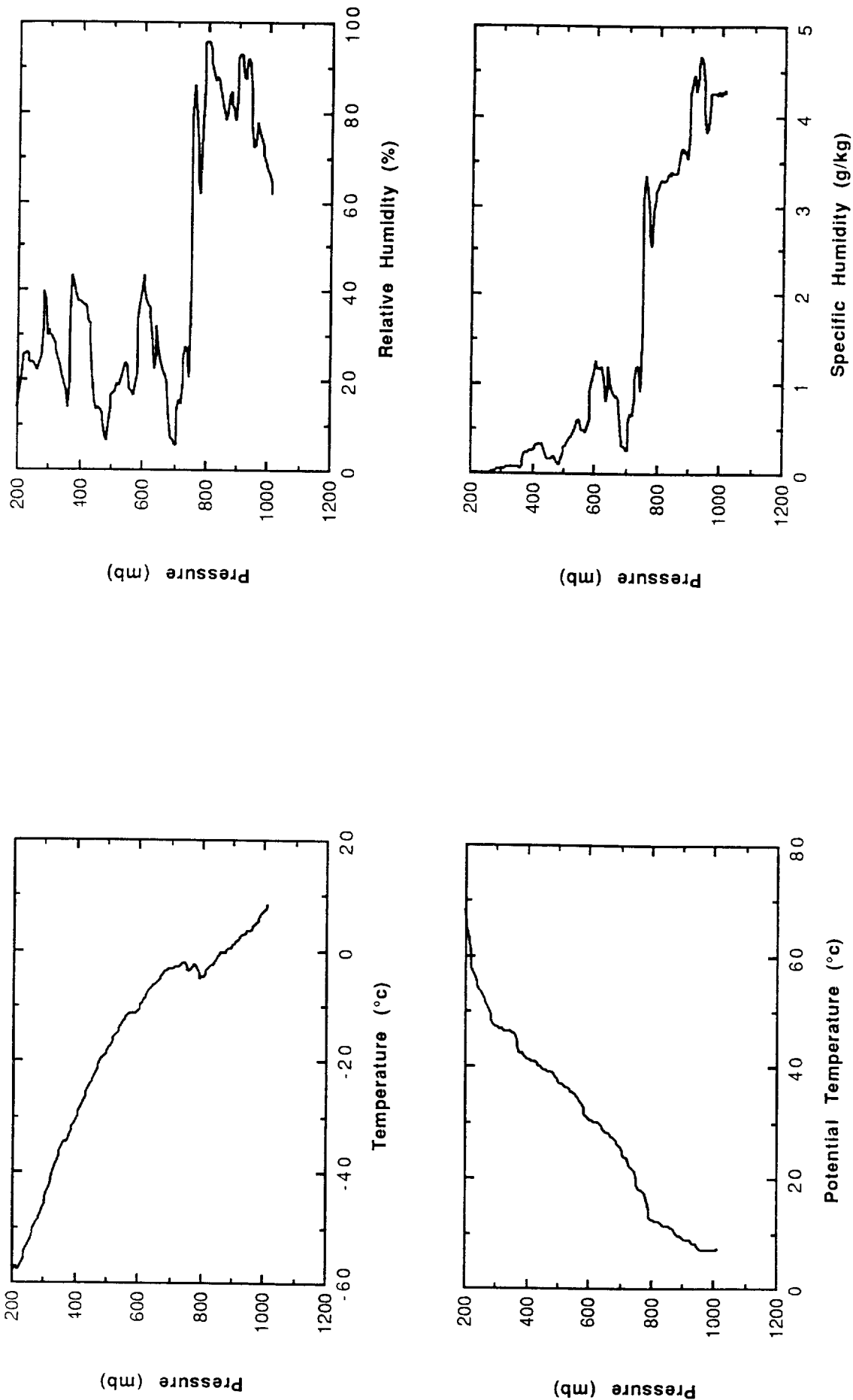
Figure 19. Atmospheric profiles for ascent 18
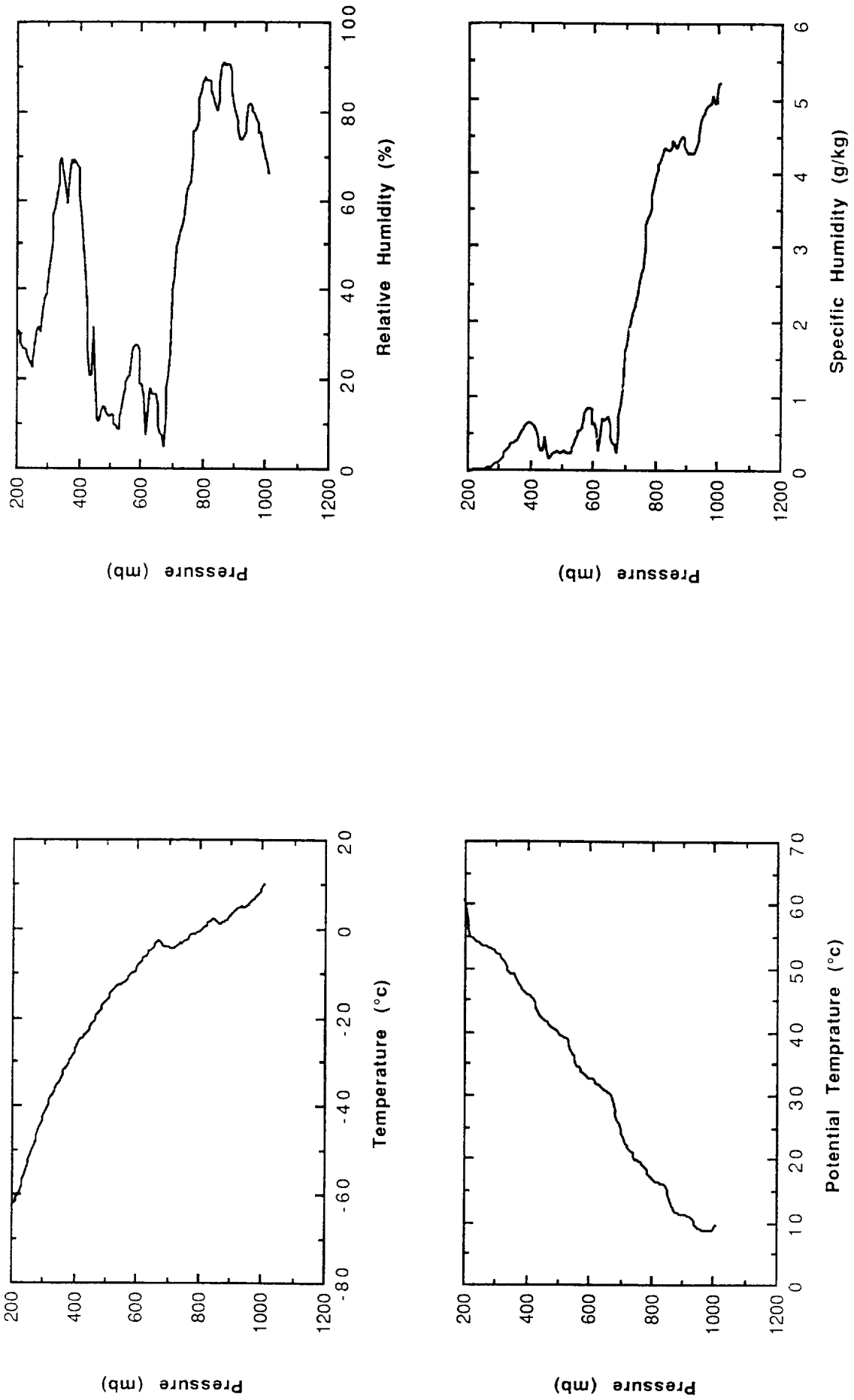
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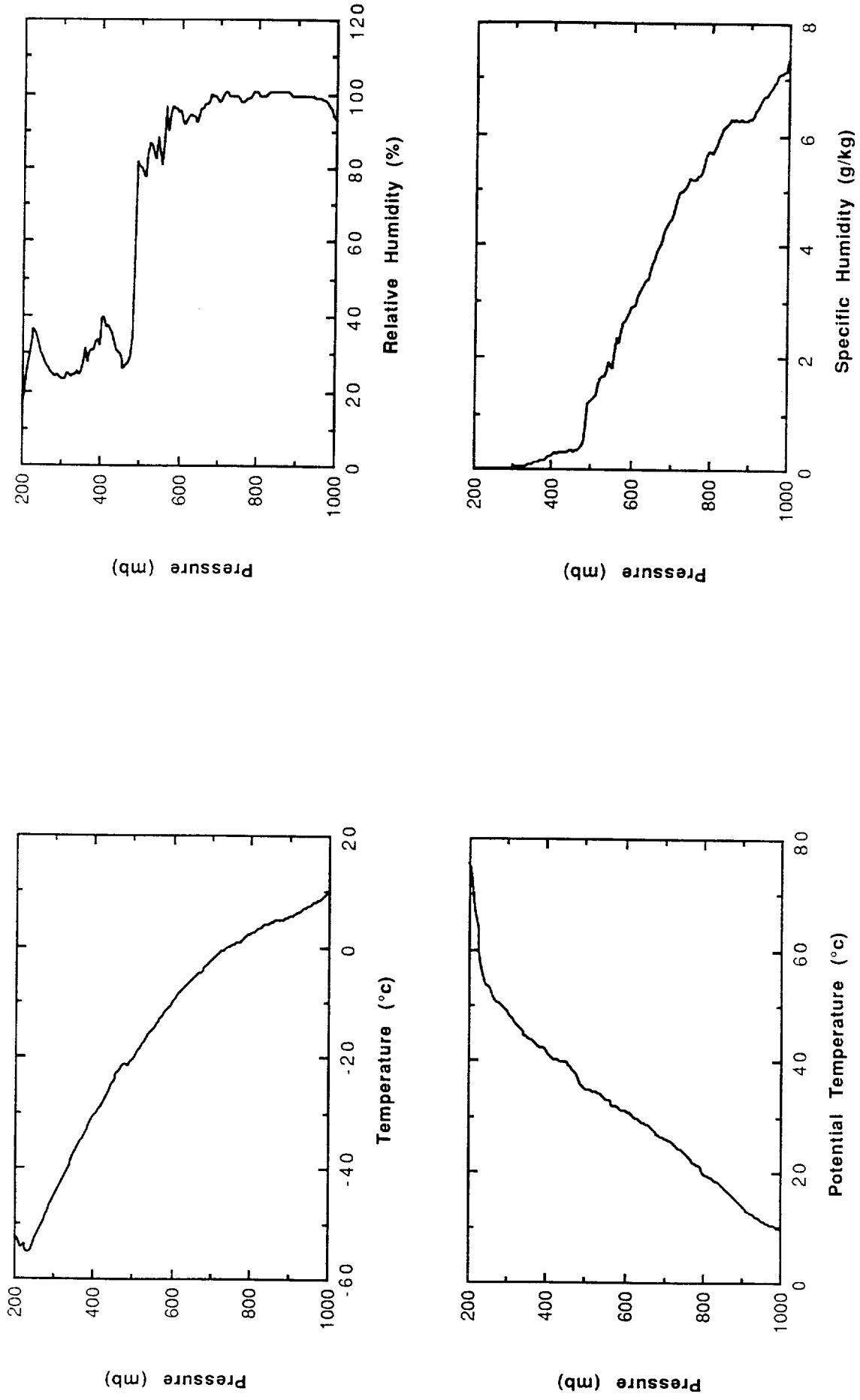
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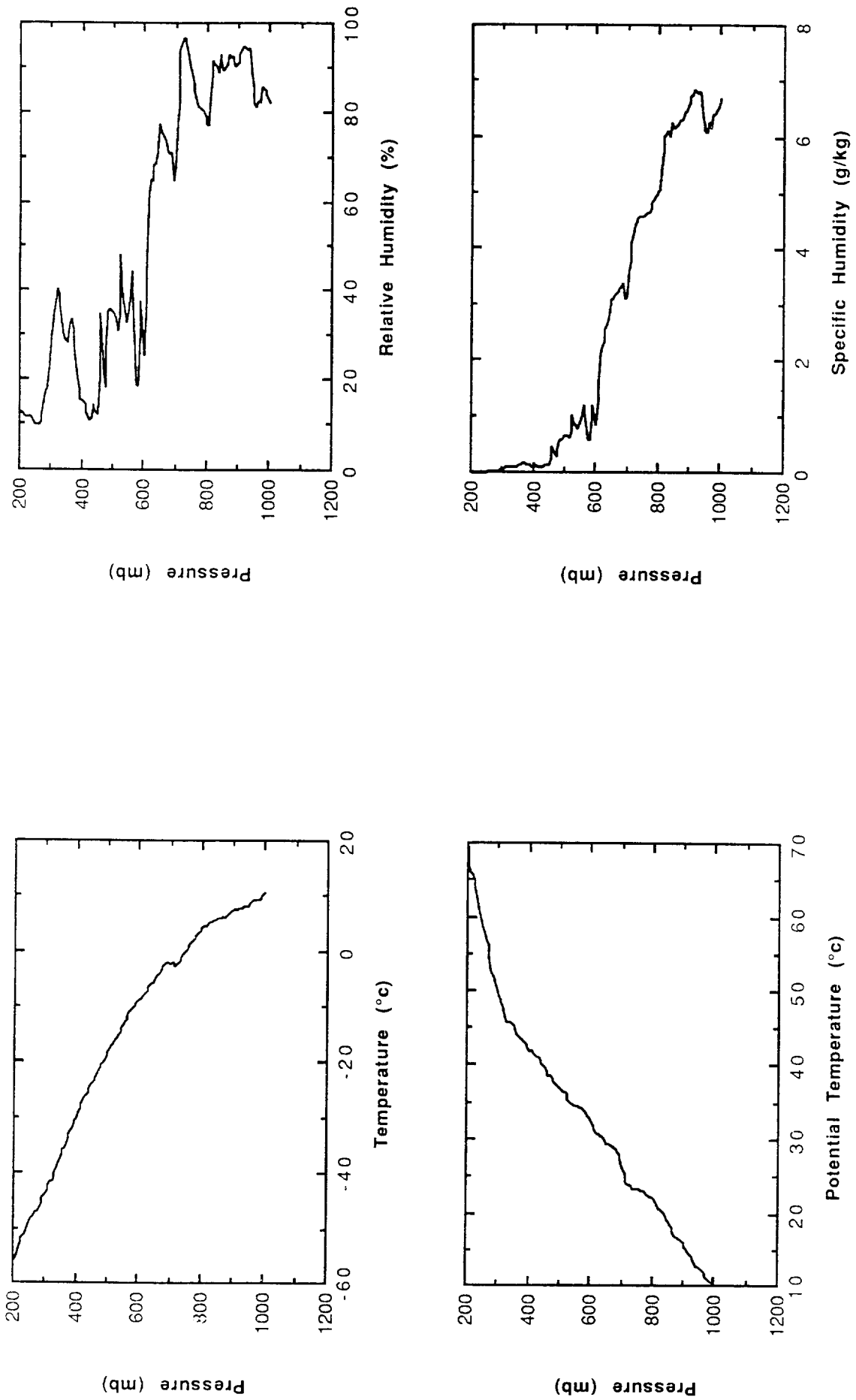
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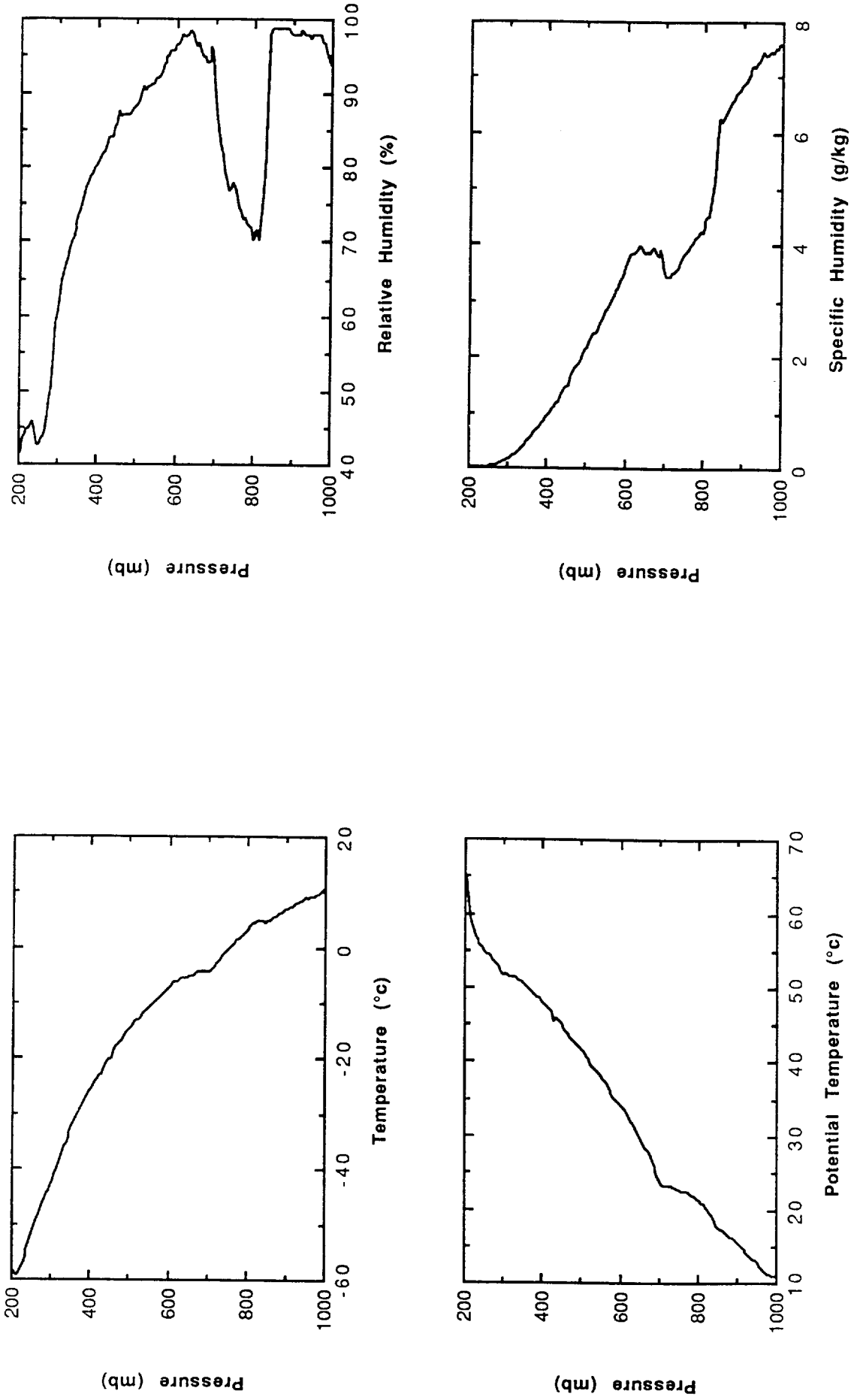
Figure 23 Atmospheric profiles for ascent number 22
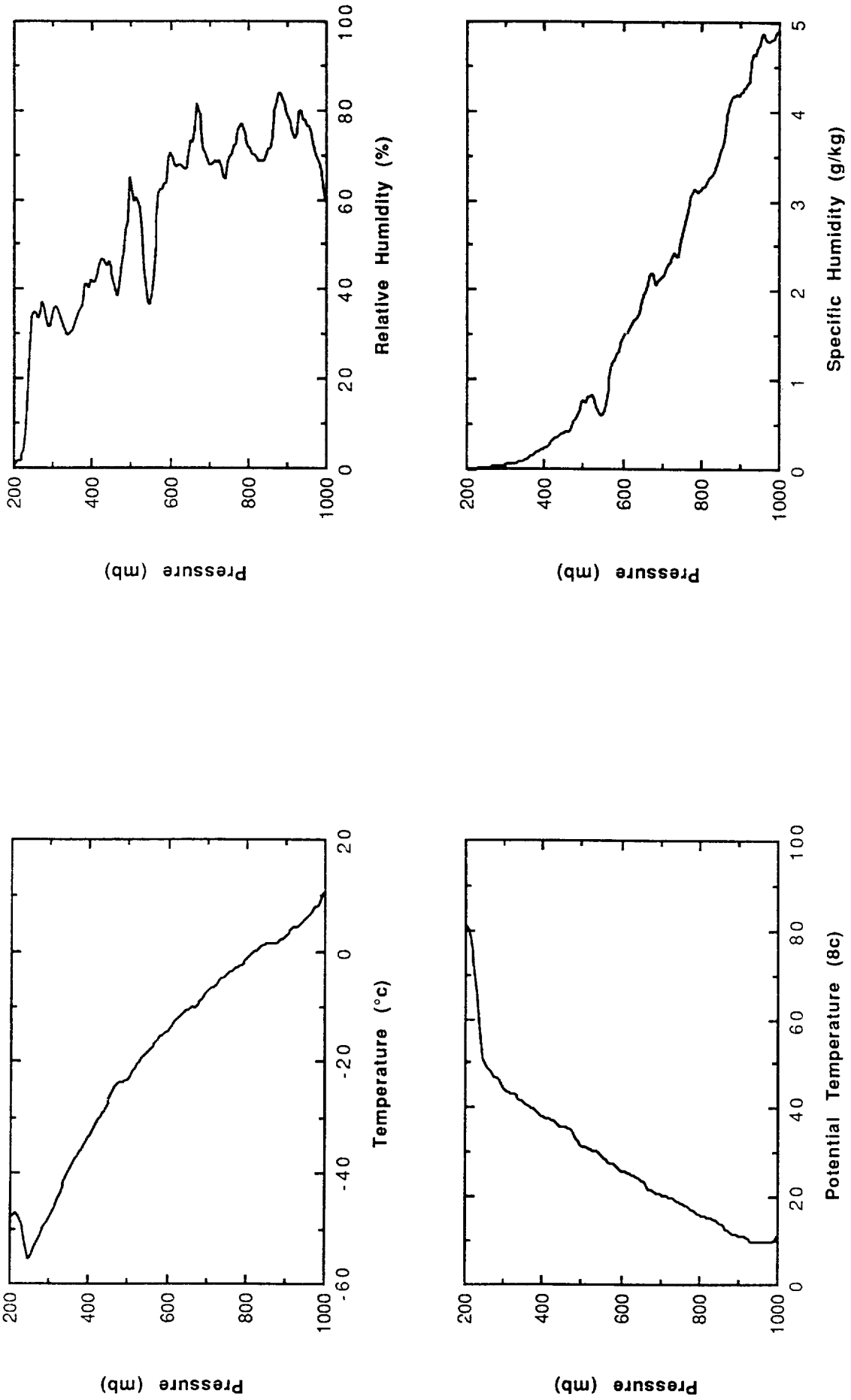
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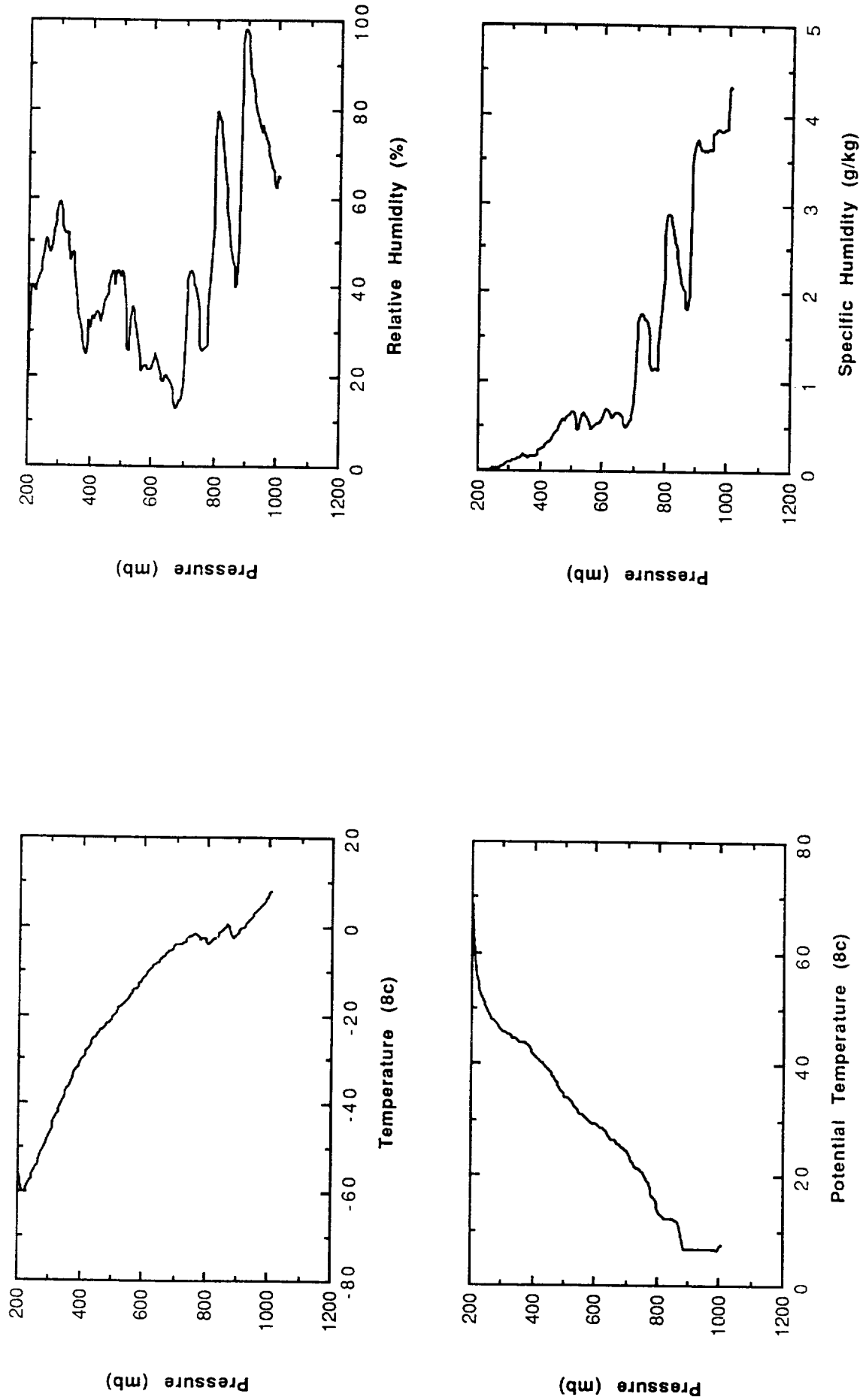
Figure 25. Atmospheric profile for ascent number 24
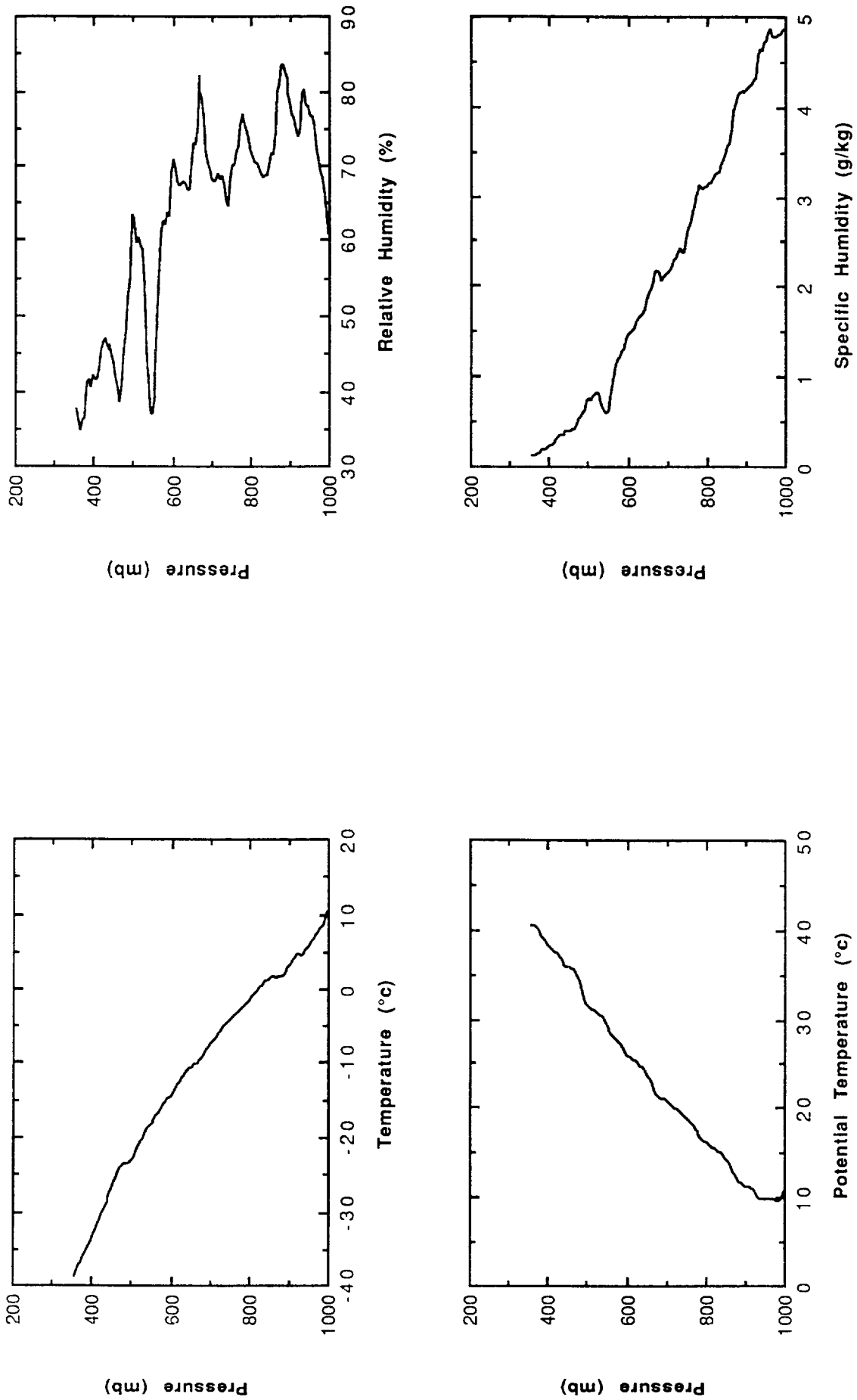
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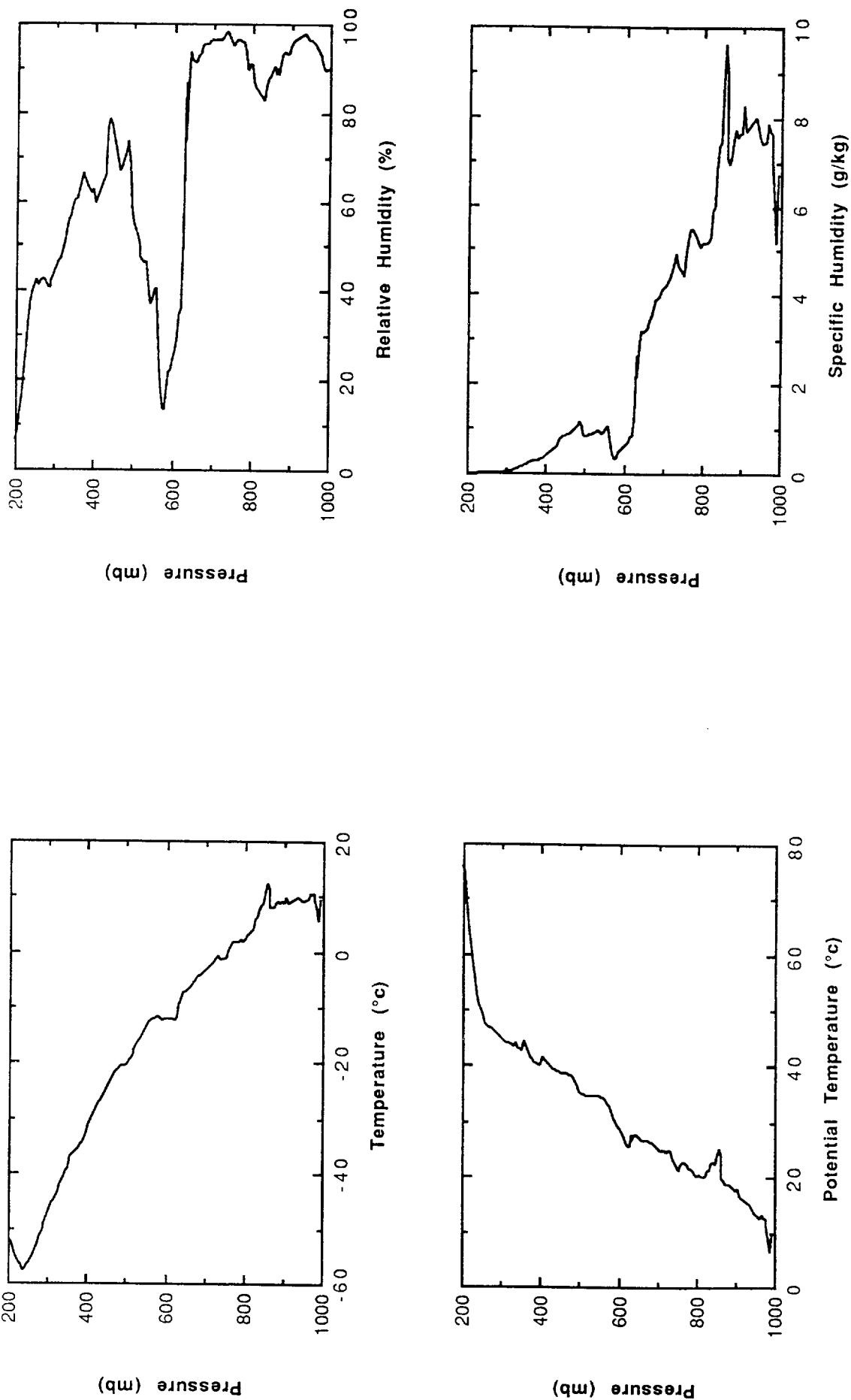
Figure 27. Atmospheric profiles for ascent number 26
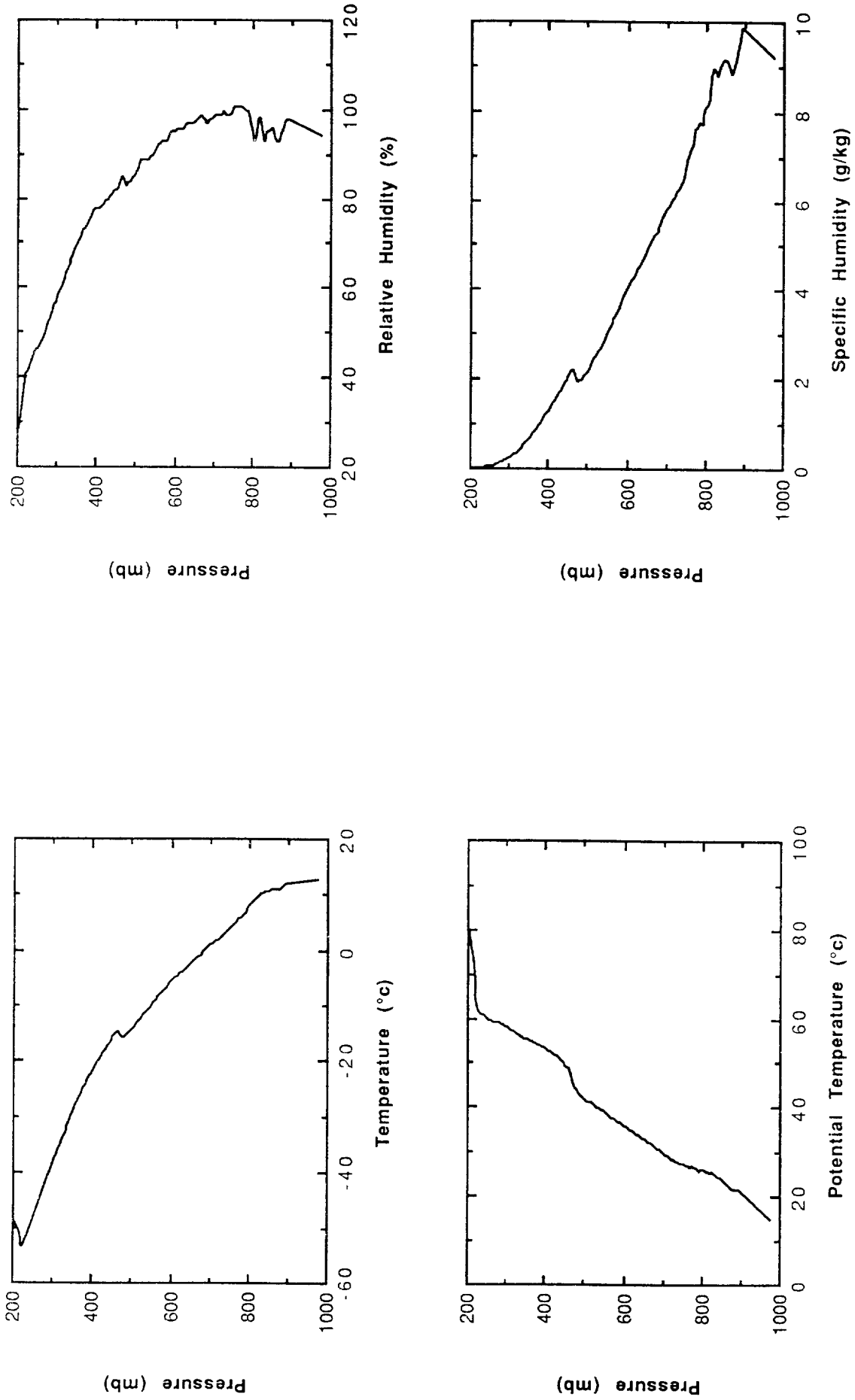
Figure 28. Atmospheric profiles for ascent number 27
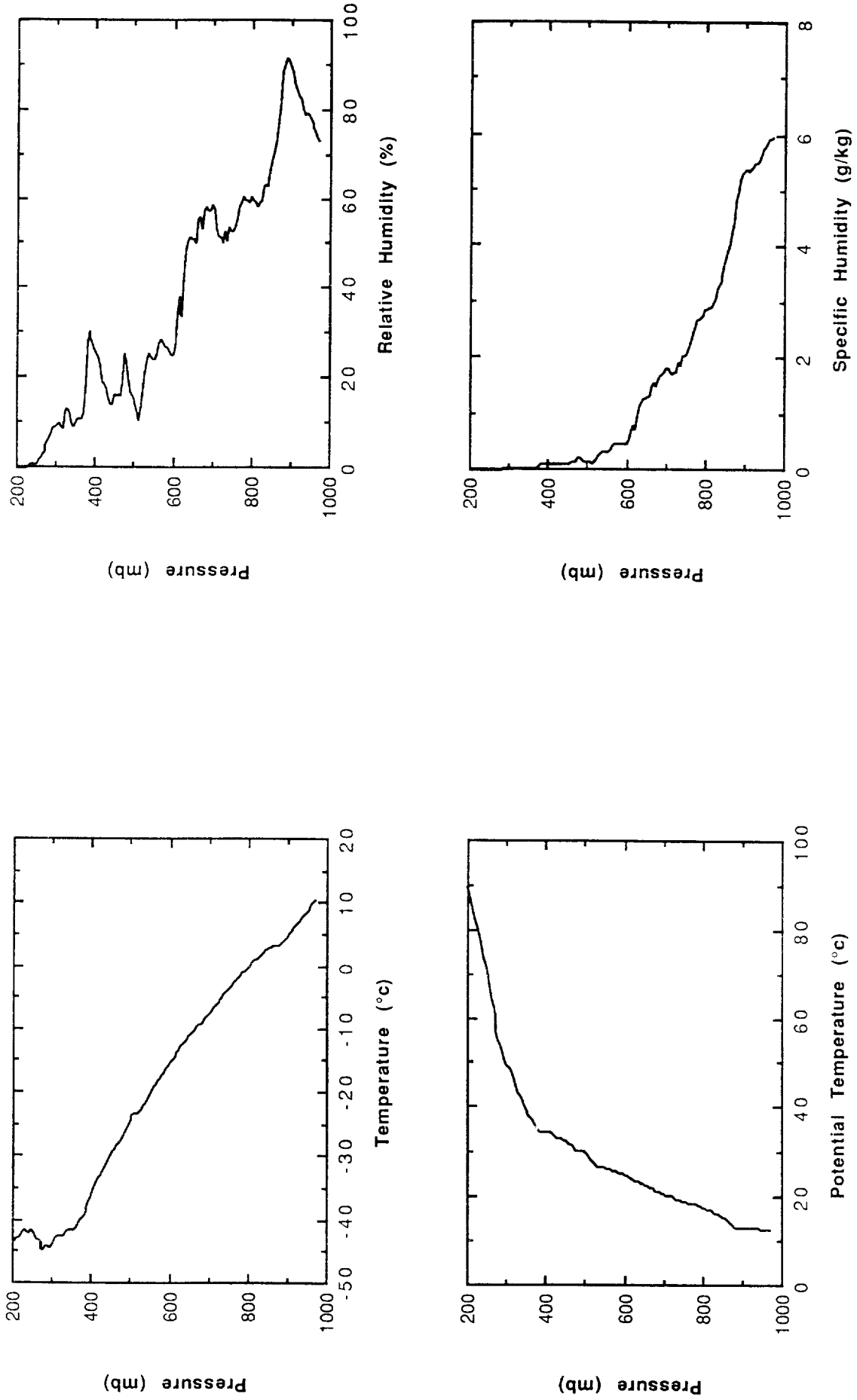
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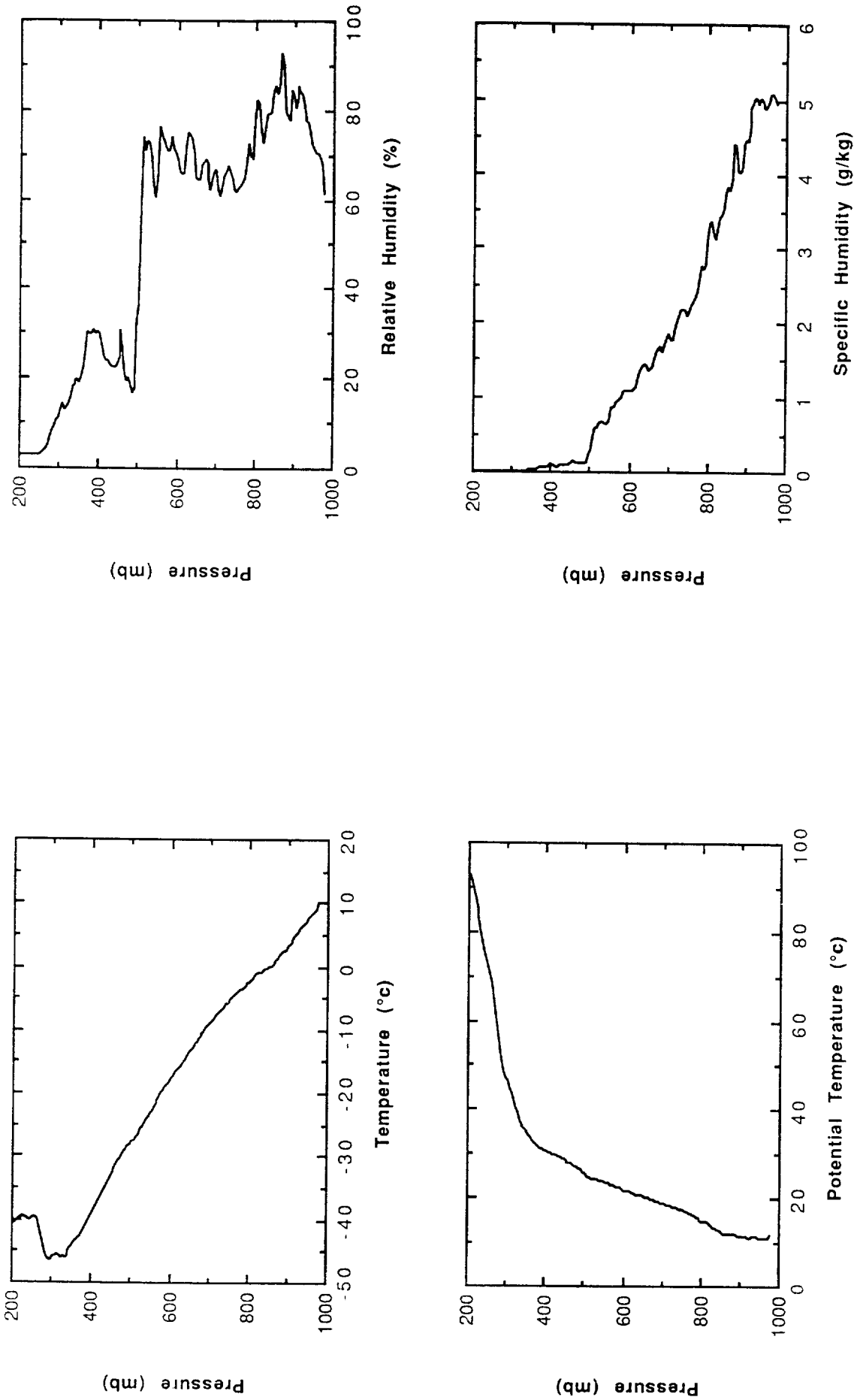
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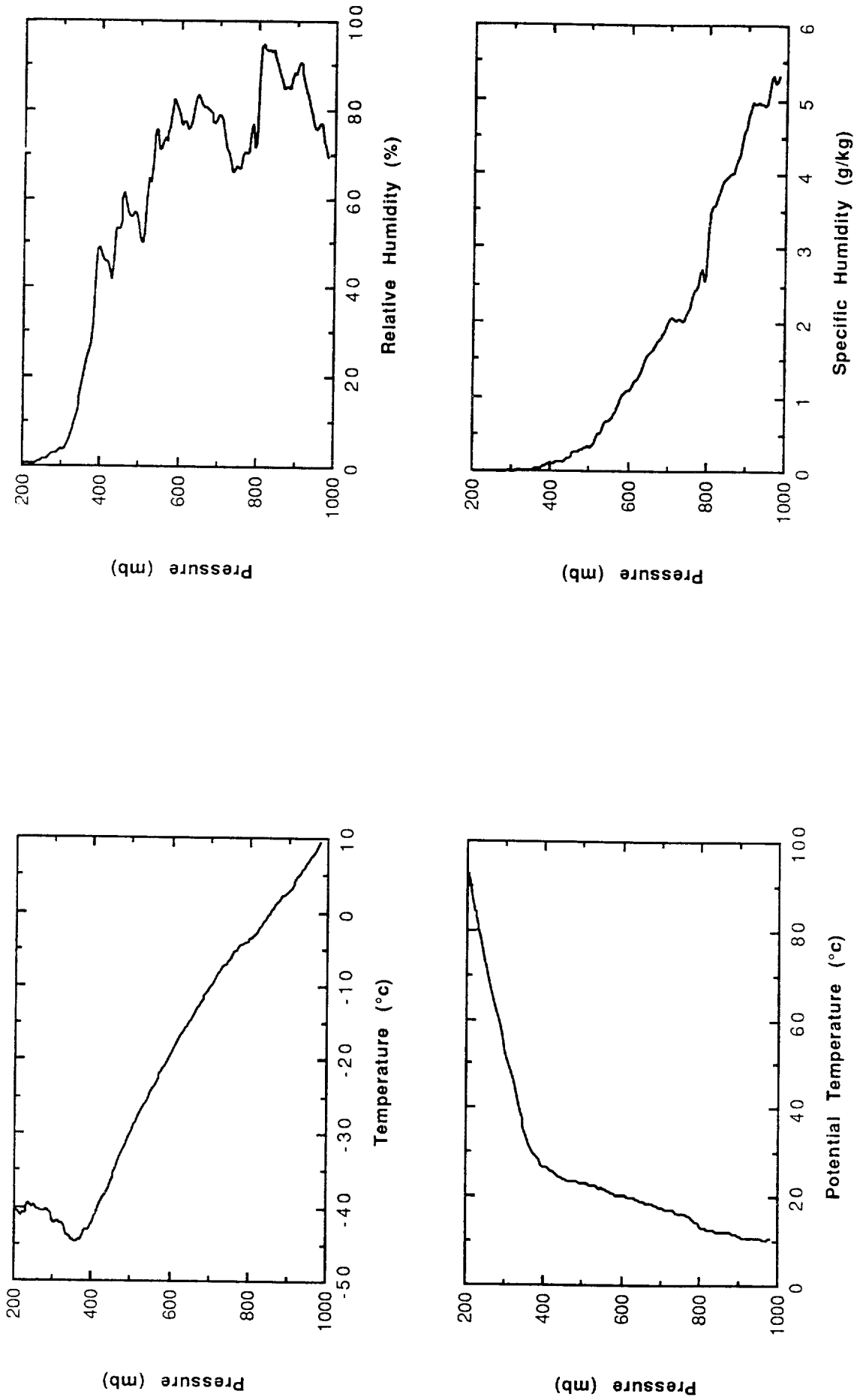
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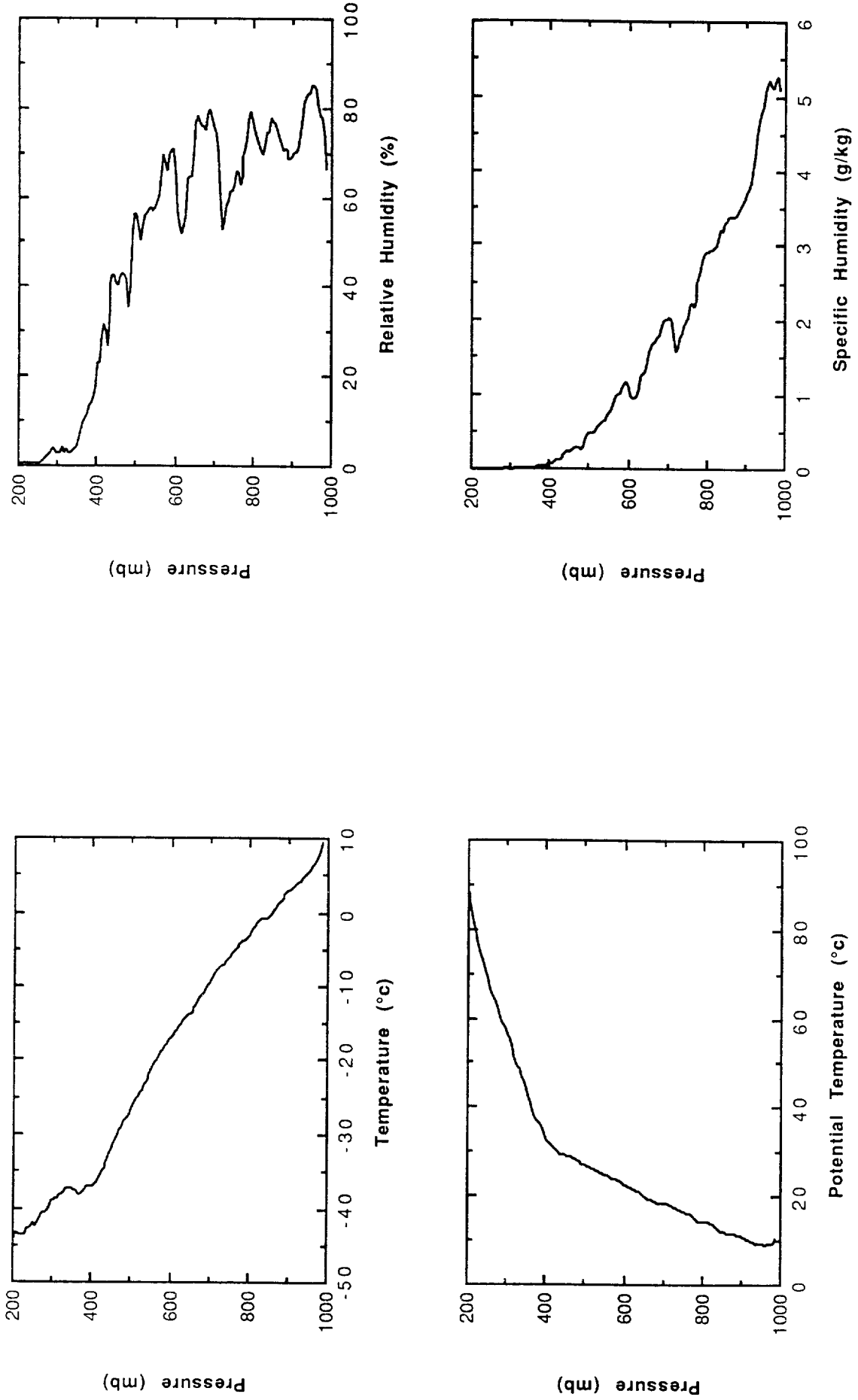
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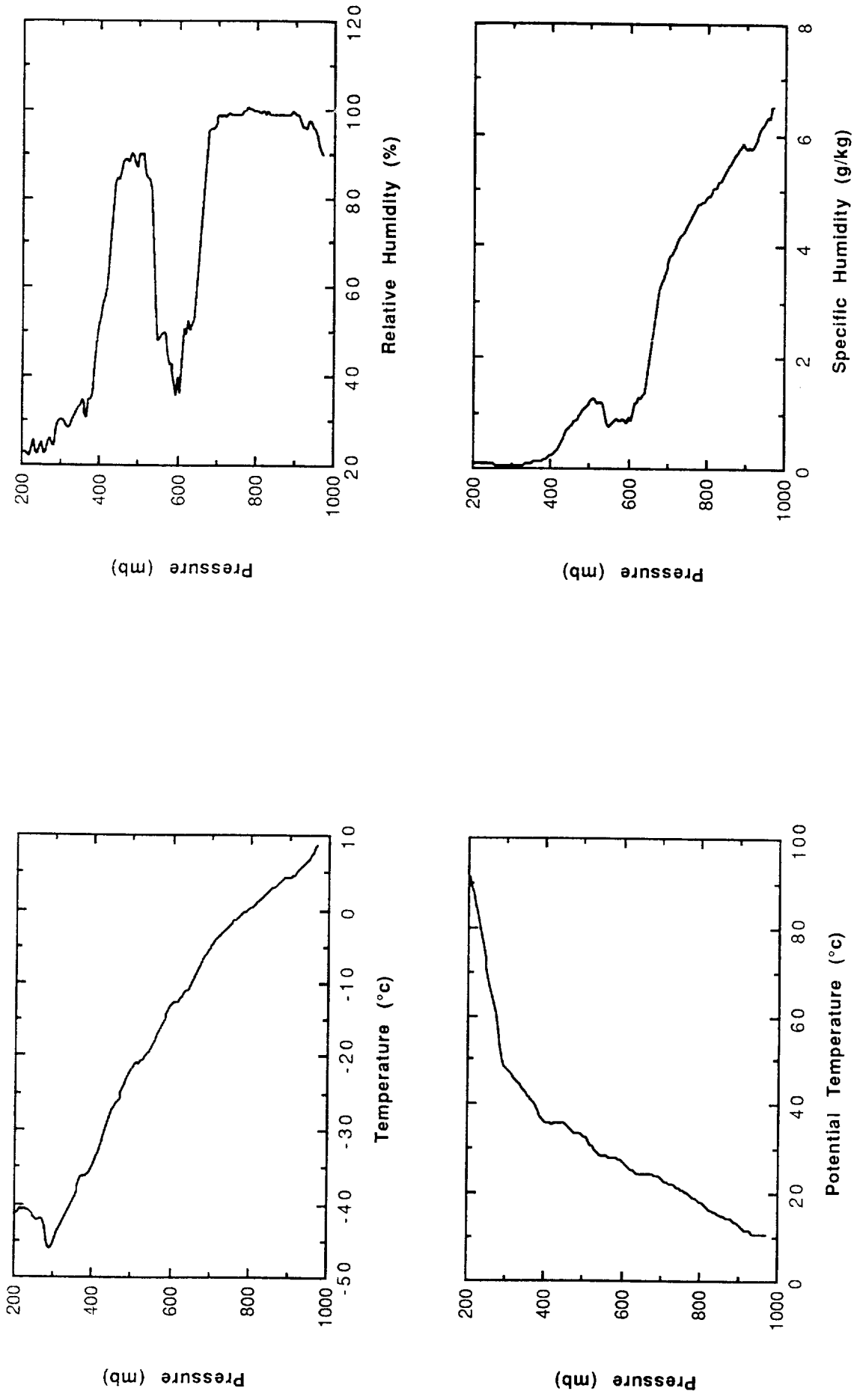
Figure 33. Atmospheric profiles for ascent number 32
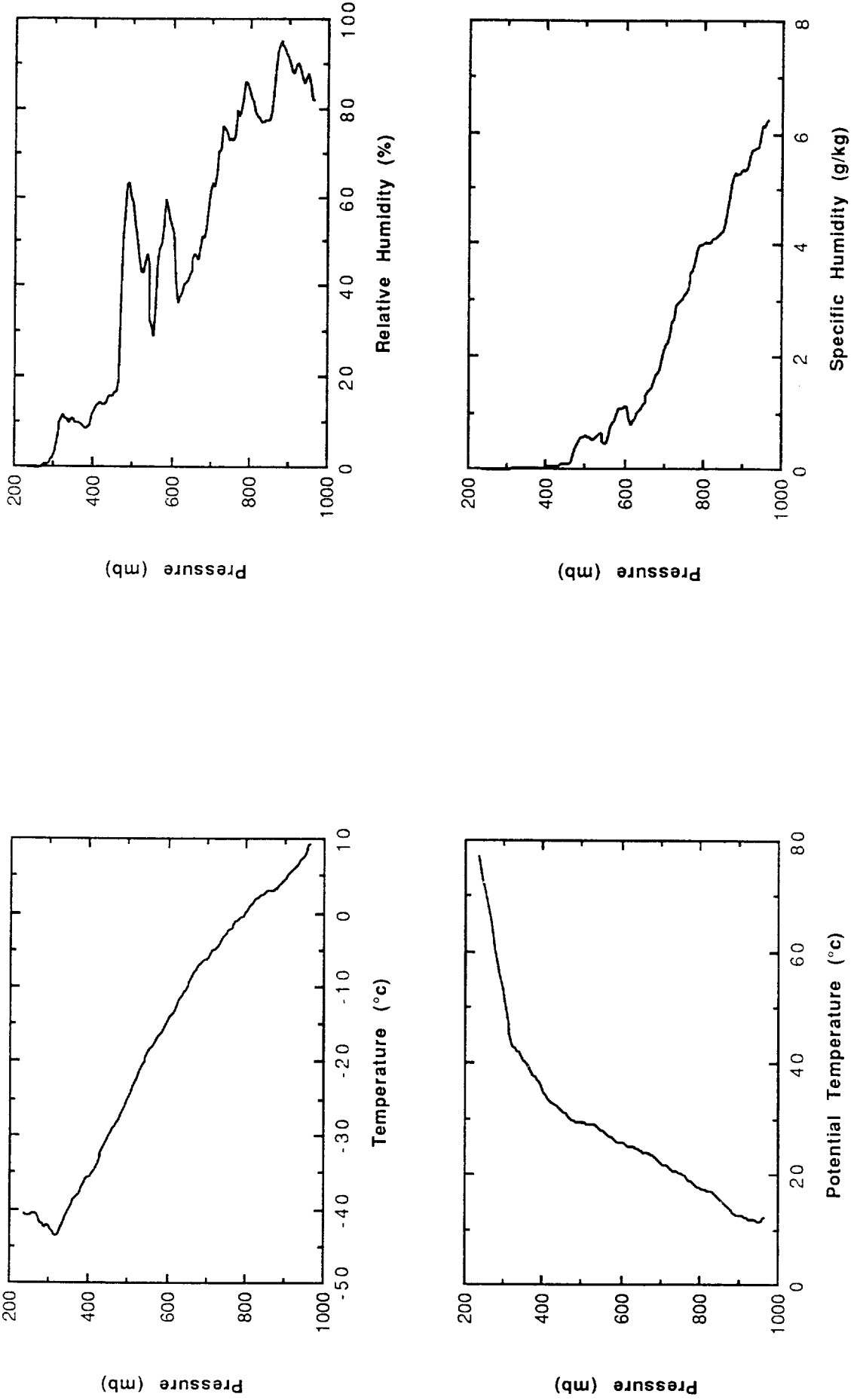
Figure 34. Atmospheric profile for ascent number 33
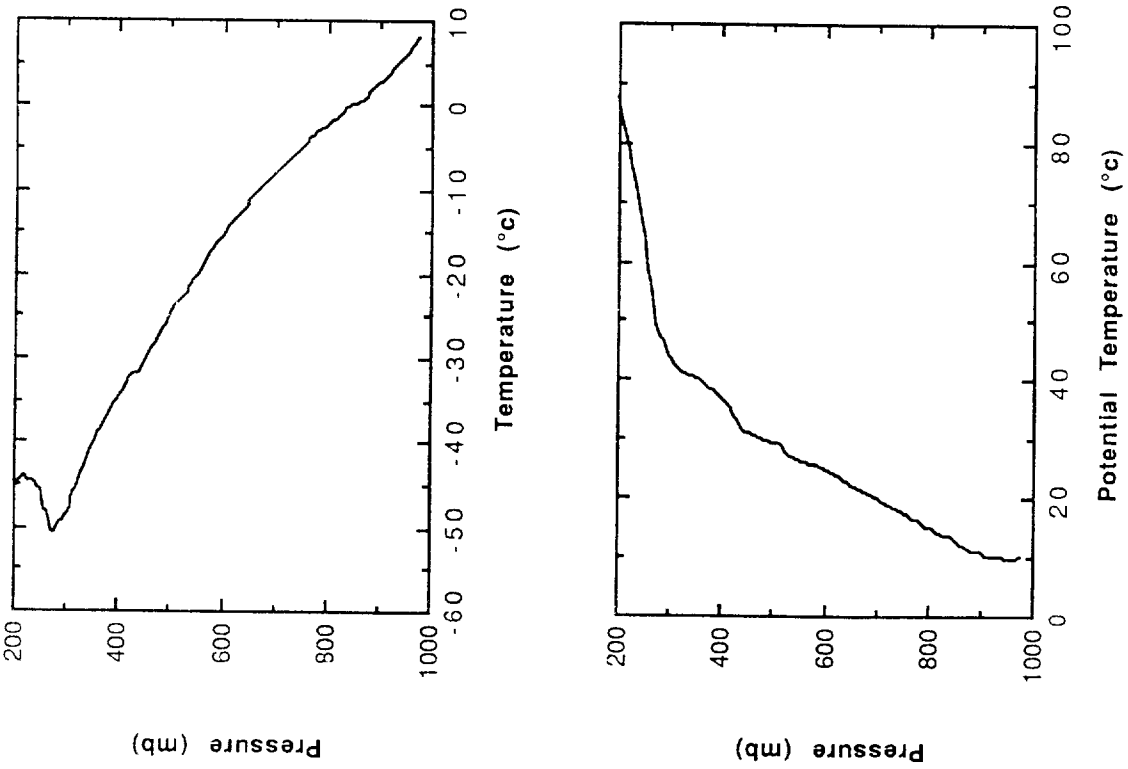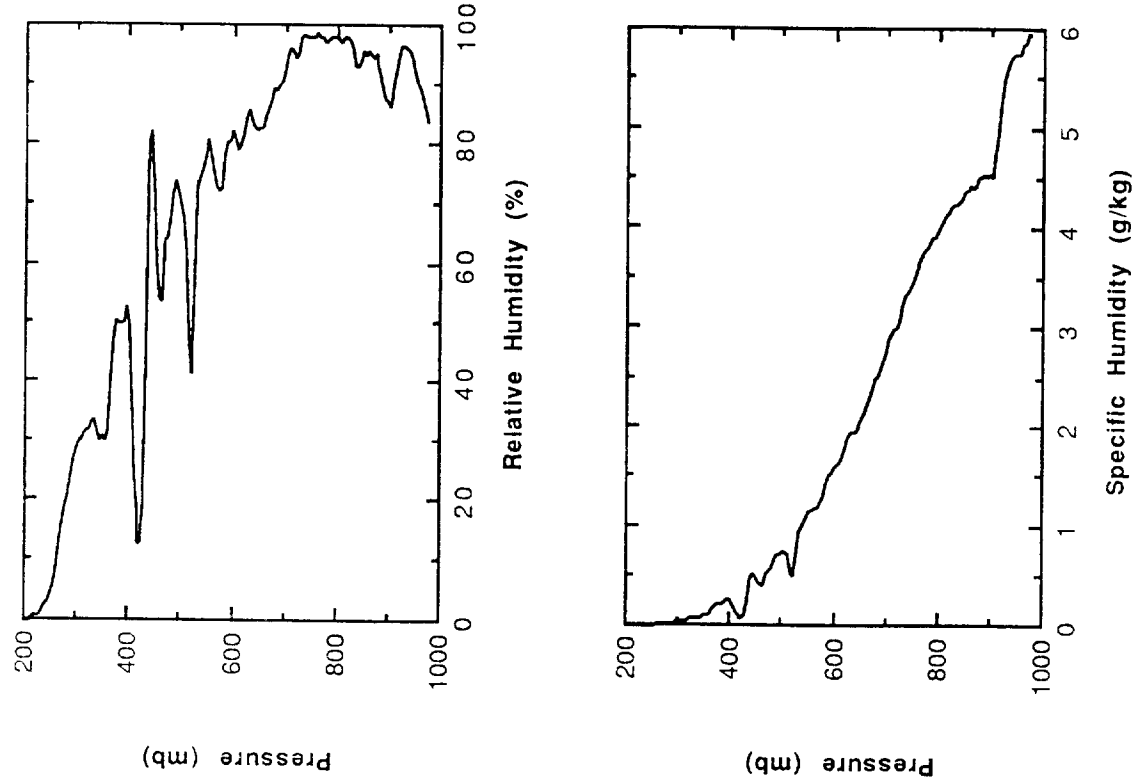
Figure 35. Atmospheric profiles for ascent number 34

Figure 36. A contour plot of temperature over the duration of the survey

Figure 37. A contour plot of relative humidity over the duration of the survey
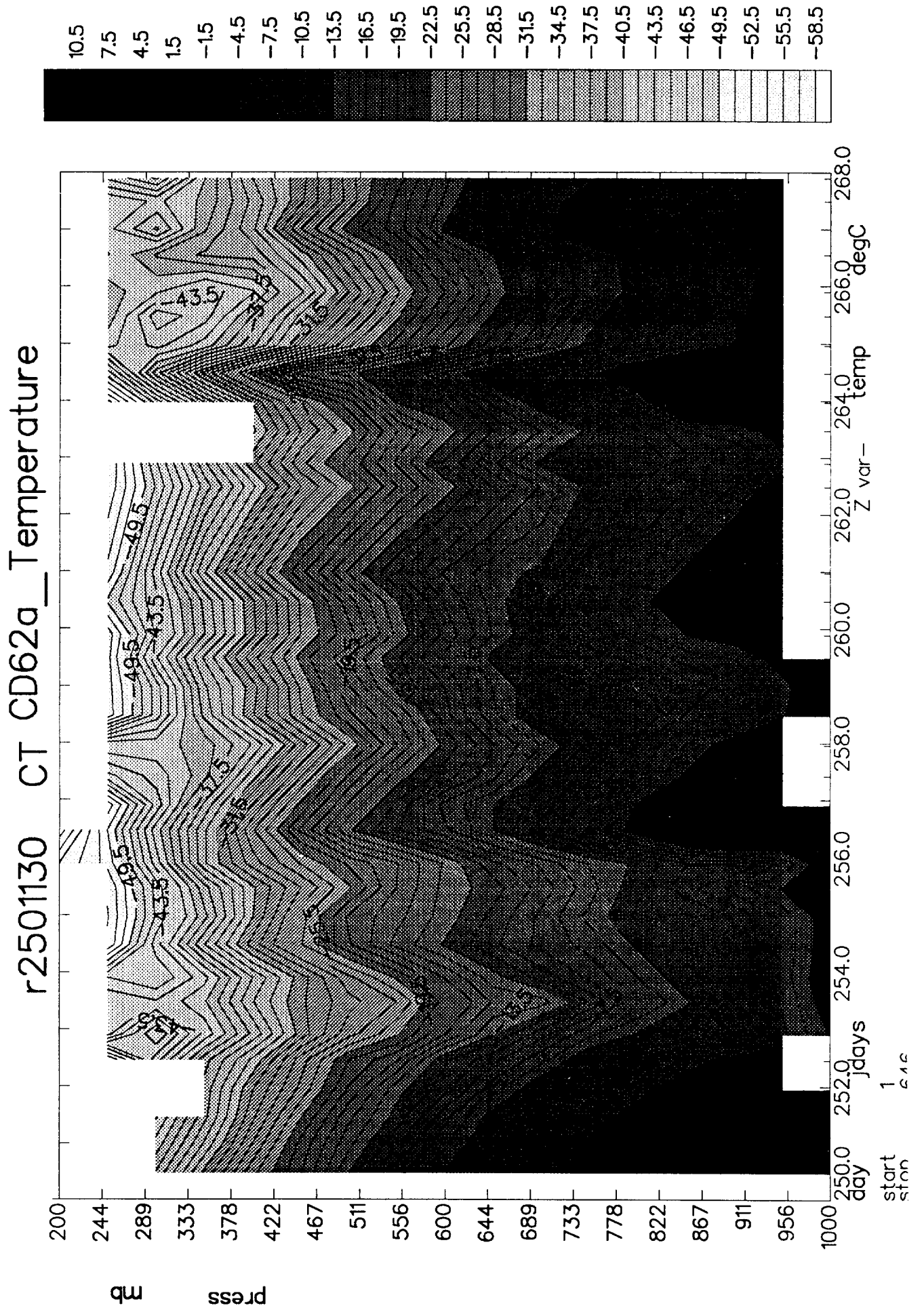
Figure 38. A contour plot of potential temperature over the duration of the survey
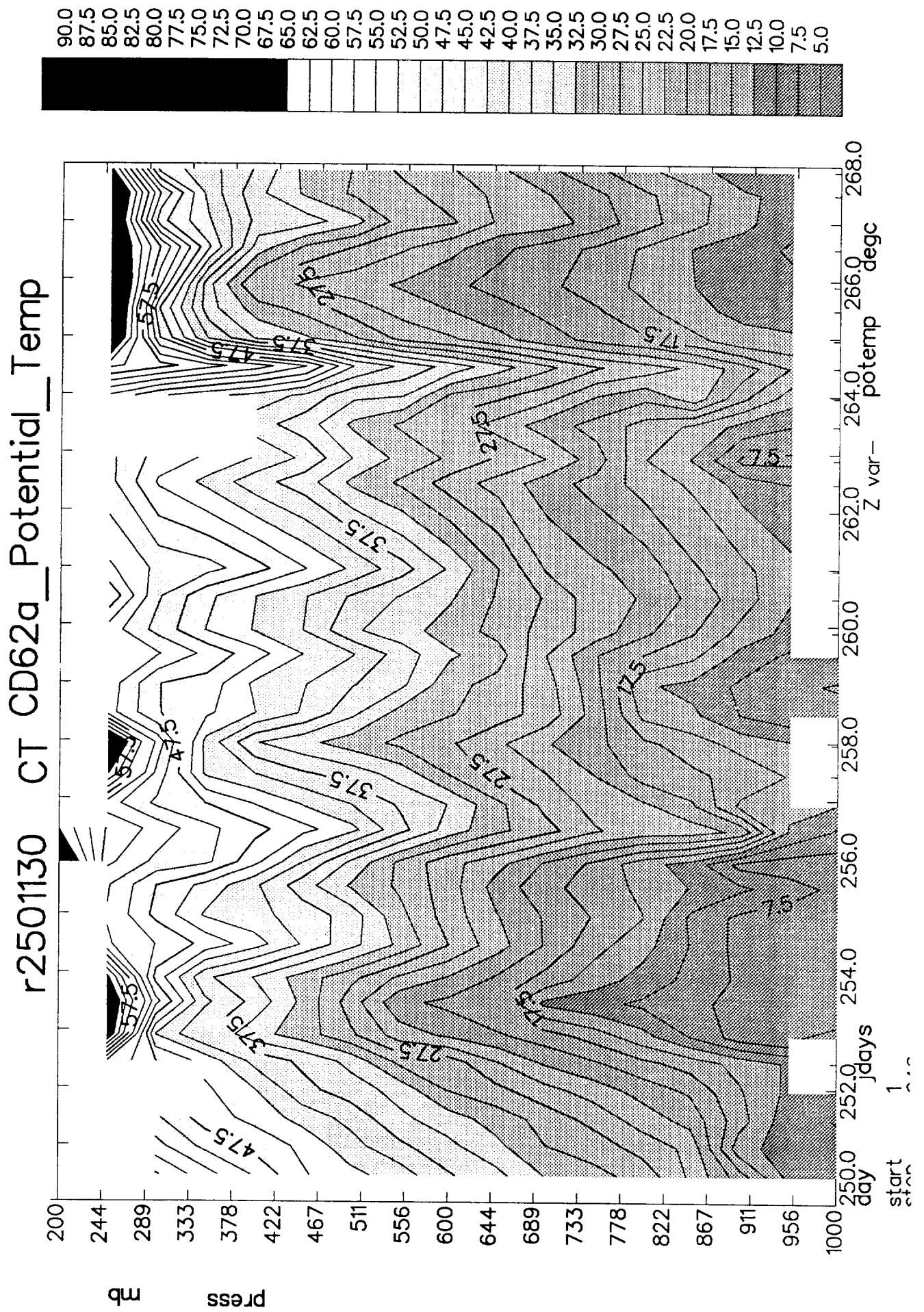
Figure 39. A contour plot of specific humidity over the duration of the survey
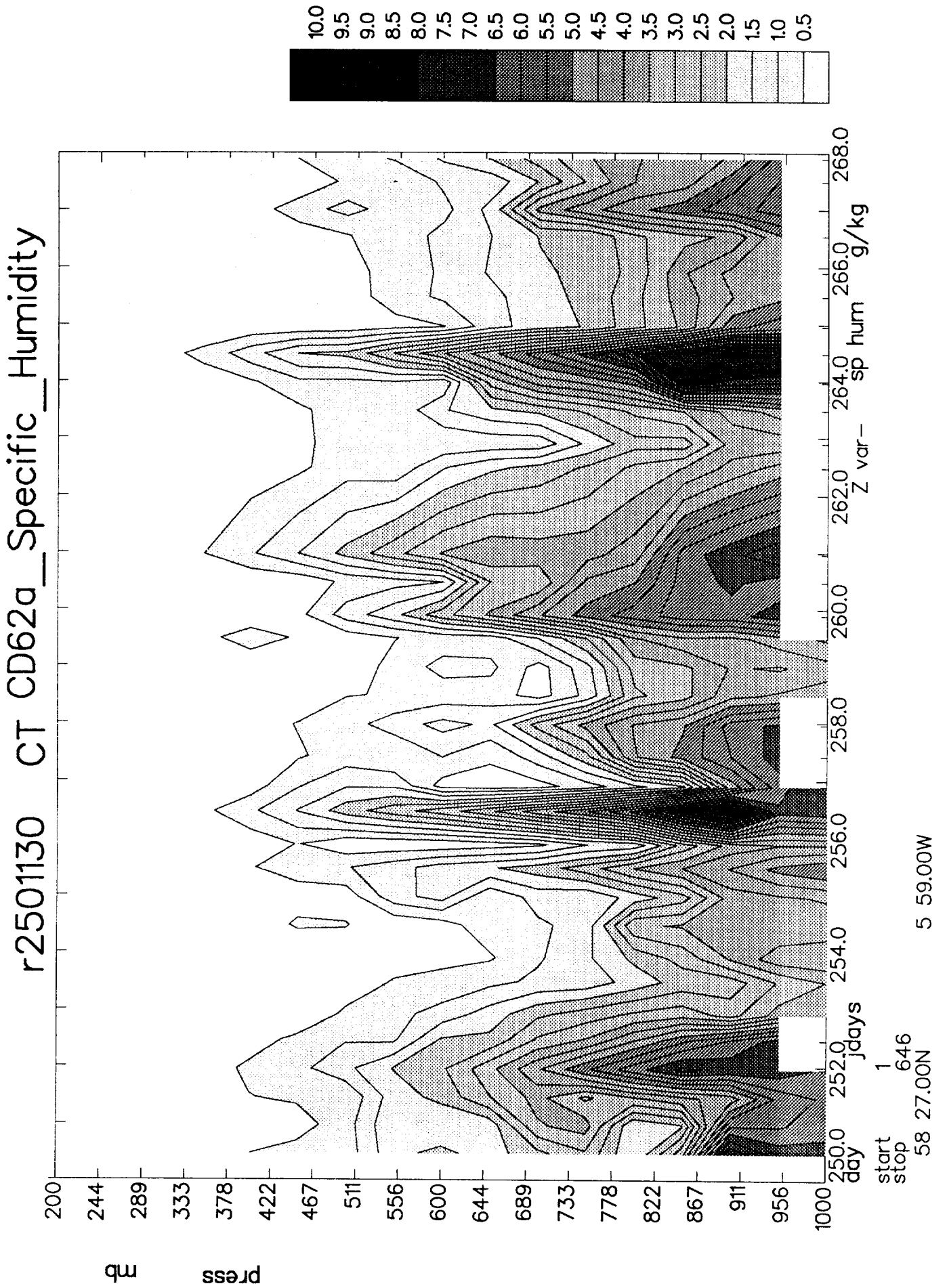
Ascent 1

```
******************************************************************************
*   Field    * Units  *    Lower Limit   *   Upper Limit   * Absent data val *
******************************************************************************
*  2.day     *jdays   *       250.479 *       250.479 *       -999.000 *
*  3.temp    *degC    *       -54.033 *        14.100 *       -999.000 *
*  4.rel-hum *%       *        11.000 *        98.000 *       -999.000 *
*  5.press   *mb      *       219.300 *      1029.300 *       -999.000 *
*  6.potemp  *degc    *        11.186 *        63.986 *       -999.000 *
*  7.sp hum  *g/kg    *         0.015 *         8.181 *       -999.000 *
******************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
1.	250.4790	14.1000	78.5000	1029.3000	11.6824	7.6633
5.	250.4790	12.2000	79.6000	1009.3000	11.4528	7.0014
9.	250.4790	10.8286	83.1429	989.3000	11.7475	6.8155
13.	250.4790	9.2000	90.6667	969.3000	11.7687	6.8014
17.	250.4790	7.9000	97.0000	949.3000	11.9892	6.7895
21.	250.4790	7.9000	96.5000	929.3000	13.8059	6.9081
25.	250.4790	9.1333	91.3333	909.3000	16.9497	7.2732
29.	250.4790	10.9750	88.7500	889.3000	20.7290	8.1814
33.	250.4790	9.8429	67.1429	869.3000	21.3936	5.8557
37.	250.4790	11.1778	34.2222	849.3000	24.7329	3.3370
41.	250.4790	10.6778	34.5556	829.3000	26.2594	3.3360
45.	250.4790	11.0143	11.2857	809.3000	28.7001	1.1400
49.	250.4790	9.9222	16.8889	789.3000	29.7241	1.6273
53.	250.4790	8.5889	23.6667	769.3000	30.4998	2.1352
57.	250.4790	6.6444	35.7778	749.3000	30.7245	2.9096
61.	250.4790	5.1333	35.3333	729.3000	31.3804	2.6565
65.	250.4790	3.4545	40.7273	709.3000	31.9975	2.8000
69.	250.4790	2.3333	32.7778	689.3000	33.2217	2.1401
73.	250.4790	0.9917	23.1667	669.3000	34.3330	1.4150
77.	250.4790	0.0000	29.6923	649.3000	35.8620	1.7372
81.	250.4790	-2.0077	60.4615	629.3000	36.3317	3.1552
85.	250.4790	-3.5182	53.3636	609.3000	37.5032	2.5699
89.	250.4790	-5.3000	35.7692	589.3000	38.4200	1.5564
93.	250.4790	-6.6154	36.9231	569.3000	39.9260	1.5029
97.	250.4790	-8.0769	48.6154	549.3000	41.3766	1.8309
101.	250.4790	-10.6929	52.9286	529.3000	41.6050	1.6830
105.	250.4790	-12.9000	24.2308	509.3000	42.4176	0.6702
109.	250.4790	-14.7571	37.7857	489.3000	43.7823	0.9339
113.	250.4790	-17.4500	38.8571	469.3000	44.2385	0.7996
117.	250.4790	-19.7067	35.6000	449.3000	45.3752	0.6305
121.	250.4790	-21.5500	27.3571	429.3000	47.1907	0.4314
125.	250.4790	-23.6000	28.0769	409.3000	48.8678	0.3865
129.	250.4790	-26.4400	41.0000	389.3000	49.9884	0.4597
133.	250.4790	-29.3538	29.9231	369.3000	50.9278	0.2690
137.	250.4790	-31.2556	20.8333	349.3000	53.5485	0.1650
141.	250.4790	-34.9222	12.9444	324.3000	55.4227	0.0770
145.	250.4790	-37.9667	12.3333	304.3000	56.9157	0.0572
149.	250.4790	-41.9222	12.4444	284.3000	57.9829	0.0411
153.	250.4790	-45.6235	14.8824	264.3000	59.5981	0.0351
157.	250.4790	-49.6556	16.4444	244.3000	61.2022	0.0265
161.	250.4790	-53.9375	14.1250	224.3000	62.9034	0.0152

Ascent 2

```
*********************************************************************
*   Field    * Units  *    Lower Limit    *   Upper Limit   * Absent data val *
*********************************************************************
*   1.count1   *-      *       2528.000 *       5402.500 *     -999.000 *
*   2.day      *jdays  *        250.979 *        250.979 *     -999.000 *
*   3.temp     *degC   *        -47.350 *         13.000 *     -999.000 *
*   4.rel-hum  *%      *         16.250 *         99.143 *     -999.000 *
*   5.press    *mb     *        265.500 *       1025.500 *     -999.000 *
*   6.potemp   *degc   *         10.681 *         56.440 *     -999.000 *
*   7.sp hum   *g/kg   *          0.081 *          7.576 *     -999.000 *
*********************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	250.9790	13.0000	73.0000	1025.5000	11.0279	6.6646
5.	250.9790	11.2333	78.0000	1005.5000	10.7209	6.4525
9.	250.9790	9.7833	78.5000	985.5000	10.9721	6.0182
13.	250.9790	8.1500	84.5000	965.5000	10.9882	5.9209
17.	250.9790	6.7250	91.2500	945.5000	11.2919	5.9259
21.	250.9790	5.6200	95.0000	925.5000	11.9010	5.8388
25.	250.9790	4.6600	99.0000	905.5000	12.6594	5.8135
29.	250.9790	5.7200	95.4000	885.5000	15.5087	6.1682
33.	250.9790	10.8200	63.8000	865.5000	22.7675	5.9614
37.	250.9790	10.5667	20.0000	845.5000	24.6032	1.8808
41.	250.9790	9.4000	21.5000	820.5000	25.8811	1.9256
45.	250.9790	8.1600	18.4000	800.5000	26.5294	1.5503
49.	250.9790	7.2667	18.0000	780.5000	27.8583	1.4652
53.	250.9790	6.1167	17.8333	760.5000	28.8578	1.3764
57.	250.9790	4.3250	55.0000	740.5000	29.2182	3.8539
61.	250.9790	2.5250	63.0000	720.5000	29.6347	3.9956
65.	250.9790	0.7000	60.8333	700.5000	30.0749	3.4807
69.	250.9790	0.3000	50.2000	680.5000	32.1243	2.8894
73.	250.9790	-1.5333	35.2222	660.5000	32.6992	1.8139
77.	250.9790	-3.0333	22.5000	640.5000	33.6653	1.0683
81.	250.9790	-4.7250	34.2500	620.5000	34.4879	1.4783
85.	250.9790	-6.1750	38.2500	600.5000	35.7203	1.5272
89.	250.9790	-8.1444	53.7778	580.5000	36.4441	1.9071
93.	250.9790	-10.0455	60.4545	555.5000	38.0383	1.9284
97.	250.9790	-12.7727	73.7273	535.5000	38.1557	1.9617
101.	250.9790	-15.2818	77.9091	515.5000	38.5090	1.7519
105.	250.9790	-15.7571	29.8571	495.5000	41.1839	0.6688
109.	250.9790	-17.5462	16.3077	475.5000	42.9517	0.3282
113.	250.9790	-19.6333	36.1667	455.5000	44.0393	0.6343
117.	250.9790	-22.4300	26.7000	435.5000	44.7998	0.3859
121.	250.9790	-25.2000	43.0000	415.5000	46.0057	0.5081
125.	250.9790	-27.5200	37.2000	395.5000	47.1793	0.3716
129.	250.9790	-29.7077	29.3077	375.5000	48.8647	0.2504
133.	250.9790	-33.2923	52.6154	355.5000	49.2008	0.3359
137.	250.9790	-36.8833	62.0000	335.5000	49.7138	0.2928
141.	250.9790	-39.4667	37.6667	315.5000	51.9149	0.1450
145.	250.9790	-43.1500	43.0000	290.5000	54.9241	0.1219
149.	250.9790	-46.4429	45.0000	270.5000	56.1217	0.0946

Ascent 3

```
*************************************************************************
*   Field    * Units  *   Lower Limit   *   Upper Limit  * Absent data val *
*************************************************************************
*  1.count1  *-       *     2567.000 *       5691.800 *       -999.000 *
*  2.day     *jdays   *      251.468 *        251.468 *       -999.000 *
*  3.temp    *degC    *      -58.250 *         10.643 *       -999.000 *
*  4.rel-hum *%       *       23.000 *         91.571 *       -999.000 *
*  5.press   *mb      *      204.300 *       1009.300 *       -999.000 *
*  6.potemp  *degc    *        9.825 *         65.017 *       -999.000 *
*  7.sp hum  *g/kg    *        0.016 *          6.090 *       -999.000 *
*************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	251.4680	10.6429	76.4286	1009.3000	9.8819	6.0585
5.	251.4680	9.0000	83.5000	989.3000	9.8795	6.0498
9.	251.4680	7.9875	84.5000	969.3000	10.5118	5.8329
13.	251.4680	6.7750	86.0000	949.3000	10.9953	5.5792
17.	251.4680	7.2800	75.2000	929.3000	13.2452	5.1577
21.	251.4680	7.8143	65.5714	909.3000	15.5166	4.7629
25.	251.4680	7.0000	59.1667	889.3000	16.5097	4.1542
29.	251.4680	8.6400	48.2000	869.3000	20.1575	3.8736
33.	251.4680	8.1143	48.4286	849.3000	21.6072	3.8460
37.	251.4680	7.1000	47.8571	829.3000	22.4356	3.6262
41.	251.4680	6.2125	38.5000	809.3000	23.6218	2.8123
45.	251.4680	5.2889	30.1111	789.3000	24.7307	2.1144
49.	251.4680	4.1571	41.1429	769.3000	25.7405	2.7391
53.	251.4680	2.9500	46.3333	749.3000	26.7305	2.9108
57.	251.4680	1.7182	48.9091	729.3000	27.6433	2.8892
61.	251.4680	0.5667	69.1111	709.3000	28.8230	3.8673
65.	251.4680	-0.9000	68.5556	689.3000	29.5728	3.5430
69.	251.4680	-2.2000	67.6364	669.3000	30.7558	3.2734
73.	251.4680	-3.8556	67.2222	649.3000	31.4961	2.9619
77.	251.4680	-5.5111	71.8889	629.3000	32.3414	2.8831
81.	251.4680	-7.1700	60.5000	609.3000	33.2218	2.2044
85.	251.4680	-8.8444	57.6667	589.3000	34.2498	1.9067
89.	251.4680	-10.7250	69.7500	569.3000	35.1036	2.0578
93.	251.4680	-12.9846	68.2308	549.3000	35.5954	1.7388
97.	251.4680	-14.3769	46.7692	529.3000	37.2188	1.1031
101.	251.4680	-15.9231	27.1538	509.3000	38.7668	0.5853
105.	251.4680	-18.2615	27.7692	489.3000	39.5102	0.5113
109.	251.4680	-20.2462	29.4615	469.3000	40.7759	0.4763
113.	251.4680	-22.7000	42.6154	449.3000	41.5994	0.5795
117.	251.4680	-24.8000	46.3077	429.3000	43.1129	0.5467
121.	251.4680	-27.5000	56.8182	409.3000	43.8450	0.5480
125.	251.4680	-30.4273	45.0909	389.3000	44.7445	0.3476
129.	251.4680	-33.3455	56.3636	369.3000	45.7693	0.3452
133.	251.4680	-36.6125	60.8125	349.3000	46.3240	0.2835
137.	251.4680	-39.5133	52.9333	329.3000	47.7840	0.1940
141.	251.4680	-42.4545	53.0000	309.3000	49.4500	0.1512
145.	251.4680	-44.9062	43.5000	289.3000	52.1166	0.1015
149.	251.4680	-48.5200	41.3000	269.3000	53.5789	0.0688
153.	251.4680	-52.7050	40.8000	249.3000	54.6282	0.0449
157.	251.4680	-56.3389	36.3333	229.3000	57.1850	0.0279
161.	251.4680	-58.2500	26.7500	209.3000	62.9728	0.0177

Ascent 4

```
**************************************************************************
*   Field   * Units  *   Lower Limit   *   Upper Limit   * Absent data val *
**************************************************************************
*  1.count1 *-       *     2012.000 *       5475.667 *       -999.000 *
*  2.day    *jdays   *      251.958 *        251.958 *       -999.000 *
*  3.temp   *degC    *      -38.700 *         11.500 *       -999.000 *
*  4.rel-hum *%       *       64.000 *        103.000 *       -999.000 *
*  5.press  *mb      *      339.100 *       1014.100 *       -999.000 *
*  6.potemp *degc    *       10.354 *         46.339 *       -999.000 *
*  7.sp hum *g/kg    *        0.249 *          7.172 *       -999.000 *
**************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	251.9580	11.5000	79.0000	1014.1000	10.3663	6.6014
5.	251.9580	9.9750	82.5000	994.1000	10.4542	6.3520
9.	251.9580	8.3714	92.7143	974.1000	10.4949	6.5391
13.	251.9580	7.8000	97.8000	954.1000	11.6330	6.7776
17.	251.9580	7.7000	98.2857	934.1000	13.2378	6.9084
21.	251.9580	7.1800	99.1000	914.1000	14.4750	6.8686
25.	251.9580	6.8000	100.0000	894.1000	15.9278	6.9055
29.	251.9580	6.3500	101.0000	874.1000	17.2647	6.9106
33.	251.9580	6.5400	101.0000	854.1000	19.4544	7.1723
37.	251.9580	5.3000	102.0000	834.1000	20.0951	6.8019
41.	251.9580	4.2333	102.0000	814.1000	21.0391	6.4691
45.	251.9580	2.9400	102.1000	789.1000	22.2285	6.0917
49.	251.9580	1.7000	102.0000	769.1000	23.1265	5.7179
53.	251.9580	0.5769	102.0769	749.1000	24.1051	5.4145
57.	251.9580	-0.6250	103.0000	729.1000	25.1536	5.1458
61.	251.9580	-2.6167	103.0000	709.1000	25.2750	4.5630
65.	251.9580	-3.8600	97.4000	689.1000	26.3338	4.0445
69.	251.9580	-5.1000	94.0000	669.1000	27.4854	3.6596
73.	251.9580	-6.6333	93.0000	649.1000	28.3802	3.3188
77.	251.9580	-7.9917	92.0000	629.1000	29.5581	3.0494
81.	251.9580	-9.7333	90.5333	609.1000	30.3479	2.7024
85.	251.9580	-12.5357	88.0000	589.1000	29.9748	2.1683
89.	251.9580	-12.6917	88.0000	564.1000	33.6989	2.2395
93.	251.9580	-14.8200	86.2000	544.1000	34.4314	1.9114
97.	251.9580	-16.6500	85.0000	524.1000	35.0644	1.6702
101.	251.9580	-19.4000	82.5000	499.1000	36.2898	1.3500
105.	251.9580	-22.0000	80.4000	479.1000	36.8191	1.0934
109.	251.9580	-24.4000	79.0000	459.1000	37.1400	0.8995
113.	251.9580	-25.5000	76.0000	439.1000	40.5609	0.8265
117.	251.9580	-29.3000	80.0000	414.1000	40.4467	0.6439
121.	251.9580	-31.6333	71.3333	389.1000	43.1693	0.4894
125.	251.9580	-34.8250	68.7500	369.1000	43.7292	0.3633
129.	251.9580	-37.1000	66.0000	349.1000	45.5011	0.2921

Ascent 5

```
************************************************************************
*    Field    * Units  *   Lower Limit  *   Upper Limit  * Absent data val *
************************************************************************
*  1.count1   *-       *     1625.167 *      4306.826 *      -999.000 *
*  2.day      *jdays   *      252.458 *       252.458 *      -999.000 *
*  3.temp     *degC    *      -54.910 *         9.750 *      -999.000 *
*  4.rel-hum  *%       *       27.087 *        95.143 *      -999.000 *
*  5.press    *mb      *      201.800 *       991.800 *      -999.000 *
*  6.potemp   *degc    *       10.348 *        80.306 *      -999.000 *
*  7.sp hum   *g/kg    *        0.032 *         7.219 *      -999.000 *
************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	252.4580	9.7500	95.0000	991.8000	10.3483	7.2195
5.	252.4580	8.9500	95.0000	971.8000	11.2958	6.9891
9.	252.4580	8.1667	95.0000	951.8000	12.1113	6.7588
13.	252.4580	7.1600	95.0000	931.8000	12.8835	6.4490
17.	252.4580	6.2750	95.0000	911.8000	13.8010	6.2037
21.	252.4580	5.3429	95.0000	891.8000	14.5936	5.9400
25.	252.4580	4.3333	95.0000	871.8000	15.4437	5.6633
29.	252.4580	3.3429	95.1429	851.8000	16.2553	5.4081
33.	252.4580	2.2800	95.0000	831.8000	17.1329	5.1282
37.	252.4580	1.1000	94.3333	811.8000	17.9392	4.7952
41.	252.4580	-0.5000	88.3750	791.8000	18.3097	4.0999
45.	252.4580	-1.2857	86.7143	771.8000	19.6305	3.8959
49.	252.4580	-2.7000	86.3333	751.8000	20.2883	3.5852
53.	252.4580	-4.3167	85.8333	731.8000	20.7503	3.2414
57.	252.4580	-5.6143	91.1429	711.8000	21.6588	3.2067
61.	252.4580	-7.0000	92.7143	691.8000	22.5380	3.0175
65.	252.4580	-8.7875	70.5000	671.8000	22.9969	2.0548
69.	252.4580	-9.3700	73.1000	651.8000	24.9343	2.0973
73.	252.4580	-9.7778	80.1111	631.8000	27.1356	2.2963
77.	252.4580	-11.2250	79.5000	611.8000	28.2694	2.0976
81.	252.4580	-12.9182	83.2727	591.8000	29.0865	1.9786
85.	252.4580	-15.1222	80.7778	571.8000	29.5288	1.6587
89.	252.4580	-18.1000	51.9000	551.8000	29.1078	0.8590
93.	252.4580	-18.6909	71.2727	531.8000	31.6197	1.1639
97.	252.4580	-20.3636	65.4545	511.8000	33.0531	0.9622
101.	252.4580	-21.2125	81.0000	491.8000	35.5635	1.1512
105.	252.4580	-23.9250	63.0000	471.8000	35.7704	0.7332
109.	252.4580	-26.0300	60.8000	451.8000	36.8984	0.6090
113.	252.4580	-28.5154	56.6154	431.8000	37.7871	0.4712
117.	252.4580	-31.0929	57.1429	411.8000	38.7525	0.3902
121.	252.4580	-33.7312	55.2500	391.8000	39.7606	0.3064
125.	252.4580	-35.2625	45.3750	371.8000	42.4409	0.2277
129.	252.4580	-37.9429	39.2857	351.8000	43.8955	0.1586
133.	252.4580	-40.8706	41.1765	331.8000	45.1591	0.1297
137.	252.4580	-44.1000	34.9286	311.8000	46.4309	0.0827
141.	252.4580	-47.1067	36.7333	291.8000	48.2497	0.0664
145.	252.4580	-51.5437	37.8125	266.8000	50.0289	0.0447
149.	252.4580	-54.4312	37.1250	246.8000	53.0319	0.0335
153.	252.4580	-53.1522	32.1739	226.8000	63.0167	0.0369
157.	252.4580	-49.9957	27.0870	206.8000	76.9027	0.0495

Ascent 6

```
***************************************************************
*   Field    * Units  *   Lower Limit   *   Upper Limit   * Absent data val *
***************************************************************
*   1.count1  *-      *      1912.000 *      5105.960 *      -999.000 *
*   2.day     *jdays  *       252.916 *       252.916 *      -999.000 *
*   3.temp    *degC   *       -50.037 *         6.500 *      -999.000 *
*   4.rel-hum *%      *         0.000 *        92.714 *      -999.000 *
*   5.press   *mb     *       201.500 *      1011.500 *      -999.000 *
*   6.potemp  *degc   *         4.655 *        89.955 *      -999.000 *
*   7.sp hum  *g/kg   *         0.000 *         4.187 *      -999.000 *
***************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	252.9160	6.5000	70.0000	1011.5000	5.7850	4.1874
5.	252.9160	4.1250	76.0000	991.5000	4.7681	3.9192
9.	252.9160	2.6000	82.5000	971.5000	4.9898	3.9044
13.	252.9160	1.3000	85.0000	951.5000	5.1121	3.7318
17.	252.9160	-0.1250	87.5000	931.5000	5.4626	3.5437
21.	252.9160	-1.1500	72.2500	911.5000	6.1651	2.7737
25.	252.9160	-2.4333	82.3333	891.5000	6.5795	2.9382
29.	252.9160	-2.2750	90.2500	871.5000	8.5285	3.3332
33.	252.9160	-2.7667	91.0000	851.5000	9.8373	3.3142
37.	252.9160	-3.3667	91.3333	831.5000	11.1894	3.2592
41.	252.9160	-3.9000	89.0000	811.5000	12.6726	3.1287
45.	252.9160	-4.2667	89.0000	791.5000	14.3070	3.1196
49.	252.9160	-5.0833	88.8333	771.5000	15.5353	3.0027
53.	252.9160	-6.5000	86.6000	746.5000	16.7072	2.7136
57.	252.9160	-7.7000	85.0000	726.5000	17.5995	2.4924
61.	252.9160	-8.9857	90.0000	706.5000	18.5827	2.4563
65.	252.9160	-10.6778	87.5556	686.5000	19.1224	2.1511
69.	252.9160	-12.1625	84.5000	666.5000	19.9063	1.8969
73.	252.9160	-13.9571	82.8571	646.5000	20.4732	1.6571
77.	252.9160	-15.7000	81.0000	626.5000	21.1431	1.4471
81.	252.9160	-18.0556	76.4444	606.5000	21.0793	1.1553
85.	252.9160	-18.7000	78.0000	586.5000	23.1957	1.1540
89.	252.9160	-20.9889	77.0000	566.5000	23.4680	0.9672
93.	252.9160	-23.2444	74.2222	546.5000	23.8597	0.7917
97.	252.9160	-25.0143	70.0000	526.5000	24.8730	0.6602
101.	252.9160	-25.7286	65.7143	506.5000	27.3640	0.6039
105.	252.9160	-27.2643	50.7143	486.5000	28.9467	0.4212
109.	252.9160	-29.2786	31.2143	466.5000	30.0649	0.2238
113.	252.9160	-31.1125	19.3125	446.5000	31.5971	0.1214
117.	252.9160	-33.6750	22.4375	426.5000	32.3459	0.1149
121.	252.9160	-36.5647	23.6471	406.5000	32.8602	0.0953
125.	252.9160	-38.8812	20.1875	386.5000	34.2234	0.0673
129.	252.9160	-40.9000	17.5000	366.5000	36.2629	0.0497
133.	252.9160	-43.5789	18.0000	346.5000	37.6522	0.0406
137.	252.9160	-46.2900	19.5500	326.5000	39.2180	0.0346
141.	252.9160	-48.7550	22.0000	306.5000	41.4738	0.0314
145.	252.9160	-48.9391	17.2609	286.5000	47.2892	0.0257
149.	252.9160	-46.3462	4.9615	266.5000	57.7858	0.0107
153.	252.9160	-42.9241	0.4483	246.5000	70.3587	0.0015
157.	252.9160	-42.7276	0.0000	226.5000	79.0649	0.0000
161.	252.9160	-43.2000	0.0000	206.5000	87.9075	0.0000

Ascent 7

```
***************************************************************************
*   Field    * Units  *   Lower Limit   *   Upper Limit   * Absent data val *
***************************************************************************
*  1.count1  *-       *     2100.000 *       5089.333 *       -999.000 *
*  2.day     *jdays   *      253.479 *        253.479 *       -999.000 *
*  3.temp    *degC    *      -43.600 *          7.833 *       -999.000 *
*  4.rel-hum *%       *        0.000 *         78.222 *       -999.000 *
*  5.press   *mb      *      201.100 *       1011.100 *       -999.000 *
*  6.potemp  *degc    *        5.573 *         92.109 *       -999.000 *
*  7.sp hum  *g/kg    *        0.000 *          3.881 *       -999.000 *
***************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	*******
1.	253.4790	7.8333	59.3333	1011.1000	6.8918	3.8805
5.	253.4790	4.9000	62.6000	991.1000	5.6240	3.4106
9.	253.4790	3.2750	66.0000	971.1000	5.6194	3.2735
13.	253.4790	1.7833	67.1667	951.1000	5.7570	3.0578
17.	253.4790	0.6000	63.0000	931.1000	6.2389	2.6893
21.	253.4790	-0.5000	54.6000	911.1000	6.8378	2.1978
25.	253.4790	-2.0667	60.0000	891.1000	6.9823	2.2001
29.	253.4790	-3.2833	58.5000	871.1000	7.5866	2.0052
33.	253.4790	-4.8000	70.0000	851.1000	7.7563	2.1879
37.	253.4790	-6.1667	67.1667	826.1000	8.8469	1.9515
41.	253.4790	-7.4222	63.0000	806.1000	9.4527	1.7018
45.	253.4790	-8.9167	60.3333	786.1000	9.8957	1.4873
49.	253.4790	-10.6833	59.5000	766.1000	10.0953	1.3086
53.	253.4790	-11.9100	62.1000	746.1000	10.9047	1.2704
57.	253.4790	-13.1875	58.5000	726.1000	11.6981	1.1085
61.	253.4790	-15.0778	64.5556	706.1000	11.8779	1.0765
65.	253.4790	-16.4111	74.4444	686.1000	12.8030	1.1438
69.	253.4790	-15.9700	57.0000	666.1000	15.7020	0.9357
73.	253.4790	-16.4778	51.5556	646.1000	17.5912	0.8356
77.	253.4790	-18.2375	49.6250	626.1000	18.2442	0.7153
81.	253.4790	-19.9000	48.7778	606.1000	19.0744	0.6297
85.	253.4790	-21.7000	48.7273	586.1000	19.7418	0.5554
89.	253.4790	-24.4667	52.6667	561.1000	20.1768	0.4899
93.	253.4790	-26.2000	62.9000	541.1000	21.1176	0.5177
97.	253.4790	-27.5818	47.9091	521.1000	22.6661	0.3604
101.	253.4790	-27.5545	31.0000	501.1000	26.0421	0.2432
105.	253.4790	-27.4857	17.5714	481.1000	29.6094	0.1445
109.	253.4790	-29.6800	17.5333	461.1000	30.5617	0.1224
113.	253.4790	-31.2000	12.7500	441.1000	32.5491	0.0804
117.	253.4790	-32.6000	10.4615	421.1000	34.8394	0.0603
121.	253.4790	-34.4769	9.2308	401.1000	36.7540	0.0465
125.	253.4790	-37.1000	11.0000	381.1000	37.8435	0.0447
129.	253.4790	-39.7200	11.9333	361.1000	39.1834	0.0390
133.	253.4790	-41.9647	11.0000	341.1000	41.1996	0.0300
137.	253.4790	-43.2071	10.0000	321.1000	45.1202	0.0254
141.	253.4790	-43.4214	7.0000	301.1000	50.4709	0.0184
145.	253.4790	-42.7125	2.2500	281.1000	57.9199	0.0068
149.	253.4790	-41.9762	0.0476	261.1000	66.0719	0.0002
153.	253.4790	-42.4556	0.0000	241.1000	73.7838	0.0000
157.	253.4790	-43.2600	0.0000	221.1000	80.3549	0.0000
161.	253.4790	-42.0000	0.0000	201.1000	92.1086	0.0000

Ascent 8

```
*****************************************************************
*   Field    * Units  *   Lower Limit   *   Upper Limit   * Absent data val *
*****************************************************************
*  1.count1  *-       *      1469.833 *       4638.600 *     -999.000 *
*  2.day     *jdays   *       253.896 *        253.896 *     -999.000 *
*  3.temp    *degC    *       -46.645 *          7.800 *     -999.000 *
*  4.rel-hum *%       *         0.000 *         93.750 *     -999.000 *
*  5.press   *mb      *       201.100 *       1016.100 *     -999.000 *
*  6.potemp  *degc    *         6.186 *         85.381 *     -999.000 *
*  7.sp hum  *g/kg    *         0.000 *          4.466 *     -999.000 *
*****************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	253.8960	7.8000	68.6667	1016.1000	6.5208	4.4609
5.	253.8960	6.0500	76.0000	996.1000	6.3760	4.4656
9.	253.8960	4.3500	80.5000	976.1000	6.2501	4.2853
13.	253.8960	2.6800	89.6000	956.1000	6.2642	4.3302
17.	253.8960	1.2500	84.2500	936.1000	6.4762	3.7515
21.	253.8960	-0.1000	89.2000	916.1000	6.7914	3.6790
25.	253.8960	-1.5000	92.4000	896.1000	7.1477	3.5172
29.	253.8960	-2.7800	93.0000	876.1000	7.6391	3.2931
33.	253.8960	-3.2667	75.3333	856.1000	9.0042	2.6318
37.	253.8960	-4.2600	73.0000	836.1000	9.8348	2.4225
41.	253.8960	-5.0778	67.1111	816.1000	10.9491	2.1443
45.	253.8960	-6.3667	71.2222	796.1000	11.5969	2.1141
49.	253.8960	-7.2364	58.1818	776.1000	12.7342	1.6560
53.	253.8960	-8.4455	55.0000	756.1000	13.5462	1.4622
57.	253.8960	-9.4100	44.7000	736.1000	14.7242	1.1315
61.	253.8960	-10.6286	45.2857	716.1000	15.6575	1.0698
65.	253.8960	-11.5667	39.4444	696.1000	16.9445	0.8888
69.	253.8960	-12.6444	40.5556	676.1000	18.2185	0.8631
73.	253.8960	-13.8545	23.9091	656.1000	19.3162	0.4746
77.	253.8960	-15.2273	20.0000	636.1000	20.3533	0.3656
81.	253.8960	-16.5091	19.8182	616.1000	21.5972	0.3359
85.	253.8960	-18.3455	28.6364	596.1000	22.2365	0.4294
89.	253.8960	-20.0273	31.0909	576.1000	23.1925	0.4176
93.	253.8960	-21.8077	31.6923	556.1000	24.0651	0.3772
97.	253.8960	-23.1846	28.0000	536.1000	25.5266	0.3058
101.	253.8960	-24.4182	19.3636	516.1000	27.2505	0.1964
105.	253.8960	-26.3364	23.3636	496.1000	28.4029	0.2073
109.	253.8960	-28.4400	30.5333	476.1000	29.3410	0.2320
113.	253.8960	-30.5571	29.0000	456.1000	30.4703	0.1883
117.	253.8960	-32.2692	21.0000	436.1000	32.1506	0.1207
121.	253.8960	-34.4214	20.5714	416.1000	33.5277	0.1003
125.	253.8960	-36.4562	14.8125	396.1000	35.2262	0.0618
129.	253.8960	-39.1333	30.9333	376.1000	36.2882	0.1031
133.	253.8960	-41.8667	17.6667	356.1000	37.4922	0.0466
137.	253.8960	-44.0200	13.0667	336.1000	39.7353	0.0289
141.	253.8960	-45.9111	12.2222	316.1000	42.5180	0.0233
145.	253.8960	-46.2150	9.4500	296.1000	48.1642	0.0186
149.	253.8960	-46.4909	9.2727	276.1000	54.2303	0.0190
153.	253.8960	-44.7381	2.0000	256.1000	63.8871	0.0054
157.	253.8960	-44.4286	0.0476	236.1000	72.2935	0.0001
161.	253.8960	-45.7360	0.0000	216.1000	79.1748	0.0000

Ascent 9

```
*****************************************************************************
*   Field    * Units  *   Lower Limit   *  Upper Limit  * Absent data val *
*****************************************************************************
*   1.count1  *-       *      1482.000 *       4014.000 *        -999.000 *
*   2.day     *jdays   *       254.479 *        254.479 *        -999.000 *
*   3.temp    *degC    *       -58.995 *          8.800 *        -999.000 *
*   4.rel-hum *%       *         4.444 *        100.000 *        -999.000 *
*   5.press   *mb      *       202.600 *       1027.600 *        -999.000 *
*   6.potemp  *degc    *         5.943 *         72.947 *        -999.000 *
*   7.sp hum  *g/kg    *         0.012 *          3.995 *        -999.000 *
*****************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	254.4790	8.8000	57.0000	1022.6000	6.8100	3.9265
5.	254.4790	6.9500	60.2500	1012.6000	5.9734	3.7043
9.	254.4790	5.3400	65.8000	992.6000	5.9429	3.6916
13.	254.4790	3.7750	70.7500	972.6000	5.9697	3.6291
17.	254.4790	2.1400	76.6000	952.6000	6.0213	3.5740
21.	254.4790	0.4750	84.7500	932.6000	6.0278	3.5833
25.	254.4790	-0.9800	92.6000	912.6000	6.2451	3.5971
29.	254.4790	-1.9800	99.0000	892.6000	6.9349	3.6502
33.	254.4790	-4.3000	97.8571	797.6000	13.6172	3.3949
37.	254.4790	-5.3800	89.8000	777.6000	14.6259	2.9465
41.	254.4790	-6.9167	59.8333	757.6000	14.9745	1.7869
45.	254.4790	-6.7400	22.2000	737.6000	17.4300	0.6901
49.	254.4790	-7.6375	33.3750	717.6000	18.7874	0.9958
53.	254.4790	-8.5857	28.2857	697.6000	20.0453	0.8047
57.	254.4790	-9.2889	22.7778	677.6000	21.7585	0.6323
61.	254.4790	-10.5167	31.3333	657.6000	22.8972	0.8132
65.	254.4790	-11.4800	26.4000	637.6000	24.4604	0.6542
69.	254.4790	-12.5250	20.7500	617.6000	25.9296	0.4876
73.	254.4790	-13.4000	12.5000	597.6000	27.7379	0.2827
77.	254.4790	-14.6875	8.0000	577.6000	29.1178	0.1681
81.	254.4790	-15.6500	5.9000	557.6000	31.0873	0.1187
85.	254.4790	-16.5625	10.2500	537.6000	33.1721	0.1979
89.	254.4790	-18.5200	25.3000	517.6000	34.1999	0.4306
93.	254.4790	-19.8200	34.8000	497.6000	36.0222	0.5503
97.	254.4790	-21.3500	45.7000	477.6000	37.8719	0.6597
101.	254.4790	-23.1333	46.2500	457.6000	39.4454	0.5948
105.	254.4790	-26.0000	48.3333	437.6000	39.8456	0.5032
109.	254.4790	-28.0917	50.0000	417.6000	41.3277	0.4477
113.	254.4790	-29.2833	22.5833	397.6000	44.1765	0.1896
117.	254.4790	-31.7000	17.1538	377.6000	45.7750	0.1204
121.	254.4790	-35.1429	21.5714	357.6000	46.4801	0.1143
125.	254.4790	-38.1375	26.3750	337.6000	47.2902	0.1085
129.	254.4790	-42.3250	30.0000	312.6000	48.8239	0.0860
133.	254.4790	-45.5875	33.2500	292.6000	50.0868	0.0711
137.	254.4790	-49.4000	28.5625	272.6000	51.1133	0.0424
141.	254.4790	-53.2118	28.4118	252.6000	52.7113	0.0291
145.	254.4790	-57.5625	30.0000	232.6000	53.7796	0.0194
149.	254.4790	-55.9733	19.8000	212.6000	64.8362	0.0171

Ascent 10

```
****************************************************************************
*   Field    * Units  *   Lower Limit    *   Upper Limit   * Absent data val *
****************************************************************************
*  1.count1  *-       *     1861.250  *       5058.389  *      -999.000  *
*  2.day     *jdays   *      254.969  *        254.969  *      -999.000  *
*  3.temp    *degC    *      -56.500  *          8.450  *      -999.000  *
*  4.rel-hum *%       *        4.000  *         98.000  *      -999.000  *
*  5.press   *mb      *      200.400  *       1020.400  *      -999.000  *
*  6.potemp  *degc    *        5.837  *         75.611  *      -999.000  *
*  7.sp hum  *g/kg    *        0.006  *          4.167  *      -999.000  *
****************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
1.	254.9690	8.4500	61.0000	1020.4000	6.8006	4.1206
5.	254.9690	5.9000	70.2000	1000.4000	5.8618	4.0628
9.	254.9690	4.3400	78.2000	980.4000	5.8992	4.1417
13.	254.9690	2.7000	84.0000	960.4000	5.9113	4.0457
17.	254.9690	1.2500	88.8333	940.4000	6.0453	3.9347
21.	254.9690	-0.4600	97.0000	915.4000	6.5024	3.9016
25.	254.9690	-1.7143	98.0000	895.4000	6.9896	3.6752
29.	254.9690	-3.2000	70.2500	875.4000	7.2444	2.4108
33.	254.9690	-3.3200	69.4000	855.4000	9.0656	2.4181
37.	254.9690	-3.2889	61.7778	835.4000	10.9263	2.2065
41.	254.9690	-2.9125	43.2500	815.4000	13.3243	1.6277
45.	254.9690	-2.9100	42.7000	795.4000	15.3481	1.6474
49.	254.9690	-3.7111	27.6667	775.4000	16.5687	1.0304
53.	254.9690	-5.1400	30.2000	755.4000	17.0901	1.0352
57.	254.9690	-6.6444	39.4444	735.4000	17.8037	1.2397
61.	254.9690	-7.8000	35.0000	715.4000	18.8331	1.0340
65.	254.9690	-8.6909	46.0909	695.4000	20.1944	1.3067
69.	254.9690	-9.8400	23.6000	675.4000	21.4224	0.6293
73.	254.9690	-11.0800	22.6000	655.4000	22.5375	0.5622
77.	254.9690	-12.6000	37.0000	635.4000	23.4679	0.8399
81.	254.9690	-14.5500	73.0000	615.4000	23.9252	1.4600
85.	254.9690	-13.8917	75.5833	595.4000	27.4761	1.6488
89.	254.9690	-14.2000	68.2727	575.4000	30.0928	1.5030
93.	254.9690	-16.2500	69.5833	555.4000	30.7732	1.3385
97.	254.9690	-18.0769	42.7692	535.4000	31.7599	0.7302
101.	254.9690	-17.8143	10.0714	515.4000	35.4379	0.1828
105.	254.9690	-19.7636	14.0909	495.4000	36.6005	0.2252
109.	254.9690	-21.7687	18.8750	475.4000	37.7367	0.2636
113.	254.9690	-24.0533	28.8667	455.4000	38.7281	0.3434
117.	254.9690	-26.6353	29.0000	435.4000	39.4686	0.2851
121.	254.9690	-29.2500	37.8750	415.4000	40.3280	0.3055
125.	254.9690	-32.3133	39.4000	395.4000	40.8949	0.2491
129.	254.9690	-35.4333	44.4667	375.4000	41.2731	0.2169
133.	254.9690	-38.6333	47.7222	355.4000	41.9848	0.1774
137.	254.9690	-41.6294	52.1765	335.4000	43.2238	0.1500
141.	254.9690	-44.2571	42.8571	315.4000	45.0690	0.0985
145.	254.9690	-47.2050	37.0500	295.4000	46.9609	0.0654
149.	254.9690	-50.6095	39.2857	275.4000	48.4847	0.0502
153.	254.9690	-53.2273	27.6364	255.4000	51.6313	0.0279
157.	254.9690	-56.5000	27.7200	235.4000	54.2945	0.0203
161.	254.9690	-55.1481	12.1481	215.4000	64.9022	0.0114

Ascent 11

```
************************************************************************
*    Field     * Units  *    Lower Limit   *   Upper Limit   * Absent data val *
************************************************************************
*    1.count1  *-       *     4210.000 *      6964.739 *      -999.000 *
*    2.day     *jdays   *      255.479 *       255.479 *      -999.000 *
*    3.temp    *degC    *      -54.300 *         8.500 *      -999.000 *
*    4.rel-hum *%       *        5.826 *        96.286 *      -999.000 *
*    5.press   *mb      *      202.500 *      1017.500 *      -999.000 *
*    6.potemp  *degc    *        6.699 *        79.714 *      -999.000 *
*    7.sp hum  *g/kg    *        0.011 *         5.938 *      -999.000 *
************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
1.	255.4790	8.5000	87.0000	1017.5000	7.3044	5.9381
5.	255.4790	6.6143	89.4286	997.5000	6.7790	5.4558
9.	255.4790	5.7600	91.8000	977.5000	7.6008	5.3910
13.	255.4790	5.1400	90.6000	957.5000	8.6147	5.2004
17.	255.4790	4.1667	89.6667	937.5000	9.3450	4.9107
21.	255.4790	2.9571	91.8571	917.5000	9.9132	4.7224
25.	255.4790	1.9667	92.0000	897.5000	10.5579	4.4982
29.	255.4790	0.6800	94.4000	877.5000	11.0917	4.3045
33.	255.4790	-0.4000	94.1667	857.5000	11.8506	4.0623
37.	255.4790	-1.3286	92.5714	837.5000	12.7319	3.8158
41.	255.4790	-2.4364	94.9091	817.5000	13.6306	3.6965
45.	255.4790	-3.5250	94.0000	797.5000	14.6780	3.4669
49.	255.4790	-4.9000	92.4000	777.5000	15.1269	3.1442
53.	255.4790	-6.1333	87.8333	757.5000	15.8403	2.7880
57.	255.4790	-7.6000	89.6667	737.5000	16.7353	2.6194
61.	255.4790	-9.1167	90.6667	717.5000	17.1884	2.4125
65.	255.4790	-10.2143	86.0000	692.5000	18.9205	2.1734
69.	255.4790	-11.4600	86.6000	672.5000	19.9516	2.0392
73.	255.4790	-12.6889	88.7778	652.5000	21.1169	1.9511
77.	255.4790	-12.7000	86.2000	632.5000	23.7083	1.9521
81.	255.4790	-13.7000	84.8889	612.5000	25.3373	1.8303
85.	255.4790	-15.0500	85.1000	592.5000	26.5758	1.6961
89.	255.4790	-15.8200	85.3000	572.5000	28.6337	1.6503
93.	255.4790	-17.6778	78.4444	552.5000	29.4654	1.3439
97.	255.4790	-19.5100	76.0000	532.5000	30.4558	1.1541
101.	255.4790	-21.4909	78.2727	512.5000	31.5266	1.0406
105.	255.4790	-23.3600	78.1000	492.5000	32.6530	0.9145
109.	255.4790	-24.3600	73.8000	472.5000	35.0742	0.8234
113.	255.4790	-26.7364	73.0000	452.5000	35.9489	0.6846
117.	255.4790	-28.9500	71.8333	432.5000	37.1704	0.5731
121.	255.4790	-30.7154	68.0769	412.5000	39.1411	0.4815
125.	255.4790	-32.5273	76.9091	392.5000	41.3048	0.4800
129.	255.4790	-35.0000	67.2500	372.5000	42.6542	0.3458
133.	255.4790	-37.6056	65.2778	352.5000	44.1646	0.2724
137.	255.4790	-41.1077	60.3846	332.5000	44.7923	0.1854
141.	255.4790	-43.8421	57.8421	312.5000	46.5714	0.1405
145.	255.4790	-47.4050	56.0000	292.5000	47.5598	0.0976
149.	255.4790	-51.4294	51.8824	272.5000	48.3490	0.0609
153.	255.4790	-54.2870	44.6957	252.5000	51.1840	0.0401
157.	255.4790	-52.2115	18.2692	232.5000	62.0776	0.0229
161.	255.4790	-49.7556	6.8519	212.5000	74.6161	0.0125

Ascent 12

```
************************************************************************
*   Field    * Units  *    Lower Limit   *   Upper Limit   * Absent data val *
************************************************************************
*  1.count1  *-       *       1409.429 *       4545.167 *       -999.000 *
*  2.day     *jdays   *        255.896 *        255.896 *       -999.000 *
*  3.temp    *degC    *        -58.943 *          7.629 *       -999.000 *
*  4.rel-hum *%       *          3.000 *         98.000 *       -999.000 *
*  5.press   *mb      *        199.800 *       1009.800 *       -999.000 *
*  6.potemp  *degc    *          5.971 *         71.527 *       -999.000 *
*  7.sp hum  *g/kg    *          0.014 *          4.300 *       -999.000 *
************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	255.8960	7.6286	66.5714	1009.8000	6.8031	4.2999
5.	255.8960	5.2000	72.0000	989.8000	5.9940	4.0106
9.	255.8960	3.5800	77.6000	969.8000	5.9873	3.9373
13.	255.8960	1.9600	86.0000	949.8000	6.0333	3.9718
17.	255.8960	0.2833	94.6667	929.8000	6.0807	3.9604
21.	255.8960	-1.0333	97.0000	909.8000	6.4238	3.7648
25.	255.8960	-1.6833	97.0000	889.8000	7.5225	3.6688
29.	255.8960	-1.6800	68.4000	869.8000	9.3062	2.6409
33.	255.8960	-1.6000	67.7143	849.8000	11.3462	2.6963
37.	255.8960	-2.7222	47.5556	829.8000	12.0768	1.7841
41.	255.8960	-3.5143	34.1429	809.8000	13.2572	1.2366
45.	255.8960	-4.5250	35.0000	789.8000	14.1861	1.2040
49.	255.8960	-5.0500	39.2000	769.8000	15.7640	1.3301
53.	255.8960	-5.8875	30.3750	749.8000	16.9530	0.9918
57.	255.8960	-6.9100	10.0000	729.8000	18.1835	0.3101
61.	255.8960	-7.9200	13.1000	709.8000	19.3605	0.3863
65.	255.8960	-8.6900	10.0000	689.8000	20.9136	0.2857
69.	255.8960	-9.4545	10.9091	669.8000	22.5261	0.3022
73.	255.8960	-10.9583	10.0000	649.8000	23.4196	0.2535
77.	255.8960	-12.9250	6.8750	629.8000	23.7409	0.1533
81.	255.8960	-14.3364	7.4545	609.8000	24.9694	0.1531
85.	255.8960	-15.1300	15.0000	589.8000	26.8261	0.2979
89.	255.8960	-16.3538	9.8462	569.8000	28.3928	0.1828
93.	255.8960	-18.1167	6.6667	549.8000	29.4520	0.1106
97.	255.8960	-18.8182	3.8182	529.8000	31.7163	0.0618
101.	255.8960	-19.8364	5.0000	509.8000	33.9353	0.0771
105.	255.8960	-21.6500	37.5833	489.8000	35.2654	0.5150
109.	255.8960	-22.7500	44.4167	469.8000	37.5405	0.5755
113.	255.8960	-23.8600	42.4000	449.8000	40.0346	0.5198
117.	255.8960	-25.4333	33.5556	429.8000	42.1342	0.3731
121.	255.8960	-26.5625	22.0000	409.8000	44.9746	0.2312
125.	255.8960	-28.8111	21.8333	389.8000	46.6238	0.1957
129.	255.8960	-30.5300	10.4000	369.8000	49.2243	0.0834
133.	255.8960	-33.2389	13.0556	349.8000	50.6761	0.0851
137.	255.8960	-37.1250	17.3125	329.8000	50.8641	0.0810
141.	255.8960	-40.9437	20.6250	309.8000	51.3933	0.0690
145.	255.8960	-44.4111	19.4444	289.8000	52.6021	0.0478
149.	255.8960	-48.3739	16.4783	269.8000	53.6536	0.0279
153.	255.8960	-52.0167	16.2500	249.8000	55.6789	0.0194
157.	255.8960	-55.5050	16.3500	229.8000	58.0145	0.0138
161.	255.8960	-58.9429	23.7143	209.8000	61.5255	0.0143
165.	255.8960	-55.3500	15.8333	199.8000	71.5272	0.0157

Ascent 13

```
*********************************************************************
*   Field    * Units  *   Lower Limit   *  Upper Limit  * Absent data val *
*********************************************************************
*  1.count1  *-       *      1617.000 *      4945.833 *     -999.000 *
*  2.day     *jdays   *       256.468 *       256.468 *     -999.000 *
*  3.temp    *degC    *       -59.365 *        19.375 *     -999.000 *
*  4.rel-hum *%       *        40.450 *        97.000 *     -999.000 *
*  5.press   *mb      *       198.500 *      1008.500 *     -999.000 *
*  6.potemp  *degc    *         9.424 *        65.248 *     -999.000 *
*  7.sp hum  *g/kg    *         0.024 *        15.233 *     -999.000 *
*********************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	256.4680	10.0000	91.0000	1008.5000	9.5165	6.9378
5.	256.4680	8.5000	93.5000	988.5000	9.5263	6.5629
9.	256.4680	7.6000	96.0000	968.5000	10.2670	6.4680
13.	256.4680	8.1000	92.0000	948.5000	12.3810	6.5419
17.	256.4680	8.5500	96.0000	928.5000	14.5404	7.1893
21.	256.4680	8.8000	94.7500	908.5000	16.5349	7.3714
25.	256.4680	19.3750	95.2500	888.5000	29.6052	15.2329
29.	256.4680	11.4143	94.2857	868.5000	23.1236	9.1708
33.	256.4680	10.1250	94.2500	848.5000	23.8112	8.6078
37.	256.4680	7.6800	94.6000	828.5000	23.2646	7.4950
41.	256.4680	6.2000	93.0000	808.5000	23.8683	6.8258
45.	256.4680	4.5000	94.0000	788.5000	24.1063	6.2771
49.	256.4680	3.2750	94.7500	768.5000	24.8750	5.9469
53.	256.4680	1.6300	95.2000	748.5000	25.3713	5.4562
57.	256.4680	1.2700	95.3000	728.5000	27.2793	5.4676
61.	256.4680	-0.0889	93.7778	708.5000	28.1551	5.0114
65.	256.4680	-1.9750	92.3750	688.5000	28.5571	4.4222
69.	256.4680	-3.3455	94.1818	668.5000	29.5334	4.1907
73.	256.4680	-4.6900	93.6000	648.5000	30.6765	3.8805
77.	256.4680	-6.1083	93.0833	628.5000	31.8086	3.5740
81.	256.4680	-7.1700	93.2000	608.5000	33.3784	3.4042
85.	256.4680	-8.3294	92.0000	588.5000	34.9615	3.1741
89.	256.4680	-9.2833	92.0000	568.5000	36.9592	3.0505
93.	256.4680	-10.7214	90.7143	548.5000	38.4290	2.7807
97.	256.4680	-11.8375	86.5000	528.5000	40.4244	2.5161
101.	256.4680	-13.2125	86.1875	508.5000	42.2196	2.3300
105.	256.4680	-14.4176	84.7059	488.5000	44.3590	2.1587
109.	256.4680	-17.4385	81.3077	468.5000	44.4576	1.6783
113.	256.4680	-19.3650	82.4000	448.5000	45.9800	1.5058
117.	256.4680	-21.7667	78.1905	428.5000	47.1351	1.2133
121.	256.4680	-24.4158	76.9474	408.5000	48.0764	0.9881
125.	256.4680	-27.4632	59.8947	388.5000	48.7328	0.6114
129.	256.4680	-30.3850	53.5500	368.5000	49.7805	0.4377
133.	256.4680	-33.4458	56.5833	348.5000	50.8104	0.3630
137.	256.4680	-37.1333	51.3333	328.5000	51.3004	0.2415
141.	256.4680	-39.9353	47.1765	308.5000	53.3342	0.1767
145.	256.4680	-43.0542	53.5417	288.5000	55.1119	0.1535
149.	256.4680	-46.7824	51.8235	268.5000	56.7253	0.1060
153.	256.4680	-51.2955	47.5909	248.5000	57.1809	0.0623
157.	256.4680	-56.1571	42.0714	228.5000	57.7540	0.0332
161.	256.4680	-58.8062	42.3125	208.5000	62.3749	0.0261

Ascent 14

```
*****************************************************************************
*    Field      * Units  *    Lower Limit    *   Upper Limit    * Absent data val *
*****************************************************************************
*   1.count1    *-       *       1137.000  *        4515.941  *       -999.000  *
*   2.day       *jdays   *        256.896  *         256.896  *       -999.000  *
*   3.temp      *degC    *        -54.589  *          12.700  *       -999.000  *
*   4.rel-hum   *%       *          4.500  *          92.000  *       -999.000  *
*   5.press     *mb      *        202.000  *        1002.000  *       -999.000  *
*   6.potemp    *degc    *         11.365  *          75.825  *       -999.000  *
*   7.sp hum    *g/kg    *          0.008  *           7.436  *       -999.000  *
*****************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
1.	256.8960	12.7000	81.0000	1002.0000	12.7408	7.4359
5.	256.8960	10.4429	88.0000	982.0000	11.8878	7.0761
9.	256.8960	9.7250	83.8750	962.0000	12.8534	6.5616
13.	256.8960	8.3000	85.4286	942.0000	13.1994	6.2030
17.	256.8960	7.1444	80.7778	922.0000	13.7044	5.5311
21.	256.8960	6.0222	74.3333	902.0000	14.3827	4.8159
25.	256.8960	6.0750	46.7500	882.0000	16.2731	3.1045
29.	256.8960	7.0714	33.5714	862.0000	19.2223	2.4425
33.	256.8960	6.8778	23.8889	842.0000	21.0075	1.7556
37.	256.8960	5.8714	19.4286	822.0000	22.0230	1.3645
41.	256.8960	4.9000	19.6667	802.0000	23.0425	1.3228
45.	256.8960	3.2556	21.0000	782.0000	23.3748	1.2899
49.	256.8960	1.5900	16.1000	762.0000	23.7923	0.9013
53.	256.8960	0.0000	13.1111	742.0000	24.3369	0.6719
57.	256.8960	-1.5091	14.0000	722.0000	24.9875	0.6600
61.	256.8960	-2.2700	7.6000	702.0000	26.5289	0.3480
65.	256.8960	-2.8182	5.0000	682.0000	28.3473	0.2262
69.	256.8960	-4.1917	4.7500	662.0000	29.4259	0.1998
73.	256.8960	-4.6250	7.5625	642.0000	31.6245	0.3175
77.	256.8960	-5.5071	10.8571	622.0000	33.3609	0.4400
81.	256.8960	-6.8143	7.0714	602.0000	34.7562	0.2678
85.	256.8960	-8.6462	15.7692	582.0000	35.6269	0.5360
89.	256.8960	-10.3437	30.1875	562.0000	36.7066	0.9302
93.	256.8960	-12.5611	72.2778	542.0000	37.2958	1.9319
97.	256.8960	-13.7786	59.6429	522.0000	39.1860	1.4988
101.	256.8960	-16.0333	68.1111	502.0000	39.9276	1.4761
105.	256.8960	-18.3187	49.5000	482.0000	40.7527	0.9214
109.	256.8960	-20.6235	57.5294	462.0000	41.7411	0.9158
113.	256.8960	-23.0111	63.9444	442.0000	42.7121	0.8609
117.	256.8960	-25.3263	12.0000	422.0000	43.9404	0.1372
121.	256.8960	-28.0091	25.5000	402.0000	44.9211	0.2390
125.	256.8960	-31.2500	25.7727	382.0000	45.3433	0.1870
129.	256.8960	-33.8773	19.5909	362.0000	46.6975	0.1158
133.	256.8960	-37.1238	21.5238	342.0000	47.5494	0.0972
137.	256.8960	-40.1500	24.0000	322.0000	48.9528	0.0841
141.	256.8960	-44.0762	28.4286	302.0000	49.3635	0.0696
145.	256.8960	-47.4955	30.5455	282.0000	50.8636	0.0547
149.	256.8960	-51.0885	33.9231	262.0000	52.4509	0.0431
153.	256.8960	-54.5500	34.4231	242.0000	54.7300	0.0312
157.	256.8960	-54.4714	13.0357	222.0000	62.9849	0.0130
161.	256.8960	-52.1176	5.7647	202.0000	75.8246	0.0084

Ascent 15

```
*********************************************************************
*   Field    * Units  *   Lower Limit   *   Upper Limit   * Absent data val *
*********************************************************************
*  1.count1   *-       *       866.120 *       3896.947 *      -999.000 *
*  2.day      *jdays   *       257.416 *        257.416 *      -999.000 *
*  3.temp     *degC    *       -45.473 *         11.100 *      -999.000 *
*  4.rel-hum  *%       *        -1.000 *         94.167 *      -999.000 *
*  5.press    *mb      *       200.600 *        985.600 *      -999.000 *
*  6.potemp   *degc    *        12.013 *         89.014 *      -999.000 *
*  7.sp hum   *g/kg    *        -0.004 *          7.410 *      -999.000 *
*********************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	257.4160	11.1000	85.3200	985.6000	12.2132	7.1364
5.	257.4160	10.5400	86.8000	965.6000	13.3104	7.1408
9.	257.4160	10.4250	80.7500	945.6000	14.9891	6.7372
13.	257.4160	9.8375	76.0000	925.6000	16.1816	6.2284
17.	257.4160	8.3000	80.8000	905.6000	16.4042	6.0996
21.	257.4160	7.1400	82.6000	885.6000	17.0140	5.8871
25.	257.4160	5.5000	89.5714	865.6000	17.2340	5.8340
29.	257.4160	4.6125	81.7500	845.6000	18.2769	5.1230
33.	257.4160	3.2167	79.6667	825.6000	18.7393	4.6294
37.	257.4160	1.4500	84.6667	805.6000	18.9827	4.4482
41.	257.4160	-0.3833	94.1667	785.6000	19.0808	4.4400
45.	257.4160	-0.4167	56.8333	765.6000	21.2132	2.7400
49.	257.4160	-1.1857	48.1429	745.6000	22.6145	2.2527
53.	257.4160	-1.9500	35.7500	725.6000	24.1036	1.6244
57.	257.4160	-3.4778	33.3333	705.6000	24.7592	1.3893
61.	257.4160	-5.1182	23.7273	685.6000	25.4451	0.8996
65.	257.4160	-6.6556	20.4444	665.6000	26.1707	0.7089
69.	257.4160	-8.2583	18.0000	645.6000	26.9585	0.5681
73.	257.4160	-9.4846	44.2308	625.6000	28.3070	1.3074
77.	257.4160	-10.7417	36.5000	605.6000	29.6905	1.0104
81.	257.4160	-12.2429	17.1429	585.6000	30.8269	0.4350
85.	257.4160	-13.1500	13.6250	565.6000	32.8151	0.3322
89.	257.4160	-14.6727	26.1818	545.6000	34.2140	0.5842
93.	257.4160	-16.4714	48.5000	525.6000	35.3056	0.9672
97.	257.4160	-18.5167	43.6667	505.6000	36.2860	0.7614
101.	257.4160	-21.0167	54.2500	485.6000	36.7857	0.7928
105.	257.4160	-23.4143	44.9286	465.6000	37.5847	0.5541
109.	257.4160	-26.0818	45.7273	445.6000	37.9561	0.4614
113.	257.4160	-28.5500	40.9286	425.6000	39.0761	0.3446
117.	257.4160	-31.3706	34.3529	405.6000	39.7129	0.2316
121.	257.4160	-34.2533	40.4000	385.6000	40.4746	0.2158
125.	257.4160	-37.3667	42.1111	365.6000	41.1094	0.1734
129.	257.4160	-40.1824	37.4706	345.6000	42.4099	0.1221
133.	257.4160	-41.2368	10.0000	325.6000	46.3977	0.0309
137.	257.4160	-42.1211	8.9474	305.6000	50.9725	0.0268
141.	257.4160	-43.9333	7.5714	285.6000	54.6990	0.0199
145.	257.4160	-44.4125	2.0000	265.6000	60.9328	0.0054
149.	257.4160	-45.2520	1.6800	245.6000	67.2250	0.0044
153.	257.4160	-43.8560	0.0000	225.6000	77.7124	0.0000
157.	257.4160	-44.2071	-0.9643	205.6000	86.5827	-0.0034

Ascent 16

```
*********************************************************************
*   Field    * Units  *   Lower Limit   *   Upper Limit  * Absent data val *
*********************************************************************
*   1.count1  *-       *     1192.250 *        4228.000 *       -999.000 *
*   2.day     *jdays   *      257.958 *         257.958 *       -999.000 *
*   3.temp    *degC    *      -42.950 *          10.212 *       -999.000 *
*   4.rel-hum *%       *        0.000 *          98.667 *       -999.000 *
*   5.press   *mb      *      197.900 *         982.900 *       -999.000 *
*   6.potemp  *degc    *       11.499 *          91.367 *       -999.000 *
*   7.sp hum  *g/kg    *        0.000 *           7.118 *       -999.000 *
*********************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
1.	257.9580	10.2125	90.0000	982.9000	11.5482	7.1175
5.	257.9580	9.3250	90.0000	962.9000	12.3590	6.8476
9.	257.9580	8.5000	89.0000	942.9000	13.2765	6.5418
13.	257.9580	6.9800	94.0000	922.9000	13.4547	6.3608
17.	257.9580	5.9167	98.0000	902.9000	14.1628	6.2991
21.	257.9580	4.8167	98.6667	882.9000	14.9109	6.0097
25.	257.9580	3.7222	93.3333	862.9000	15.6458	5.3836
29.	257.9580	2.7143	89.4286	842.9000	16.4941	4.9130
33.	257.9580	1.5857	94.0000	822.9000	17.3060	4.8803
37.	257.9580	0.3429	94.1429	802.9000	18.0581	4.5803
41.	257.9580	-0.5250	87.2500	782.9000	19.2125	4.0844
45.	257.9580	-1.8000	86.0000	762.9000	20.0506	3.7633
49.	257.9580	-3.1125	88.7500	742.9000	20.8174	3.6155
53.	257.9580	-4.6500	93.6000	722.9000	21.4331	3.4904
57.	257.9580	-5.7556	78.1111	702.9000	22.5506	2.7522
61.	257.9580	-6.8900	63.0000	682.9000	23.7630	2.0942
65.	257.9580	-8.0667	52.8889	662.9000	25.0087	1.6525
69.	257.9580	-9.8000	57.0000	642.9000	25.6072	1.6007
73.	257.9580	-11.4500	77.0833	622.9000	26.4660	1.9615
77.	257.9580	-12.7818	71.5455	602.9000	27.7124	1.6883
81.	257.9580	-14.5727	69.8182	582.9000	28.5097	1.4708
85.	257.9580	-16.7273	74.0909	562.9000	29.0499	1.3511
89.	257.9580	-18.6909	75.5455	542.9000	29.8262	1.2084
93.	257.9580	-20.8385	75.3077	522.9000	30.4831	1.0381
97.	257.9580	-23.1600	70.5000	502.9000	31.1143	0.8237
101.	257.9580	-25.5077	72.0000	482.9000	31.7378	0.7081
105.	257.9580	-27.8133	79.7333	462.9000	32.5712	0.6610
109.	257.9580	-30.0750	68.7500	442.9000	33.6183	0.4812
113.	257.9580	-32.6833	64.1111	422.9000	34.3648	0.3653
117.	257.9580	-35.4231	56.8462	402.9000	35.0851	0.2590
121.	257.9580	-38.4000	54.0714	382.9000	35.6262	0.1912
125.	257.9580	-40.3400	31.0667	362.9000	37.8607	0.0947
129.	257.9580	-39.6733	8.0000	342.9000	43.8318	0.0277
133.	257.9580	-40.5722	5.9444	322.9000	48.0948	0.0199
137.	257.9580	-40.7933	3.9333	302.9000	53.5770	0.0137
141.	257.9580	-40.3722	2.0000	282.9000	60.7526	0.0078
145.	257.9580	-40.5667	3.0000	262.9000	68.3414	0.0114
149.	257.9580	-41.2455	1.4091	242.9000	74.2722	0.0058
153.	257.9580	-41.8478	0.5217	222.9000	81.9502	0.0022
157.	257.9580	-42.7444	0.0000	202.9000	90.2970	0.0000

Ascent 17

```
****************************************************************************
*   Field    * Units  *    Lower Limit    *   Upper Limit    * Absent data val *
****************************************************************************
*  1.count1  *-       *       1780.125  *       4697.714  *       -999.000  *
*  2.day     *jdays   *        258.479  *        258.479  *       -999.000  *
*  3.temp    *degC    *        -54.096  *          9.537  *       -999.000  *
*  4.rel-hum *%       *          2.500  *         94.000  *       -999.000  *
*  5.press   *mb      *        200.700  *       1005.700  *       -999.000  *
*  6.potemp  *degc    *          8.299  *         79.056  *       -999.000  *
*  7.sp hum  *g/kg    *          0.005  *          5.045  *       -999.000  *
****************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	258.4790	9.5375	68.3750	1005.7000	9.0026	5.0454
5.	258.4790	7.1625	73.8750	985.7000	8.3552	4.7380
9.	258.4790	5.5667	80.8333	965.7000	8.3433	4.7367
13.	258.4790	3.9667	85.6667	945.7000	8.4254	4.5841
17.	258.4790	2.8000	93.6667	925.7000	8.9156	4.7128
21.	258.4790	1.8333	93.3333	905.7000	9.6848	4.4791
25.	258.4790	1.4000	78.0000	885.7000	11.0774	3.7098
29.	258.4790	0.9286	74.0000	865.7000	12.4499	3.4805
33.	258.4790	-0.0875	72.6250	845.7000	13.2707	3.2468
37.	258.4790	-1.2500	73.1250	825.7000	13.9862	3.0741
41.	258.4790	-2.9857	78.0000	805.7000	14.2191	2.9568
45.	258.4790	-4.5714	82.4286	785.7000	14.5617	2.8430
49.	258.4790	-1.6636	42.0000	765.7000	19.8697	1.8460
53.	258.4790	-2.0800	24.1000	745.7000	21.6394	1.0549
57.	258.4790	-1.2556	8.2222	725.7000	24.8281	0.3925
61.	258.4790	-2.1545	5.3636	705.7000	26.2171	0.2464
65.	258.4790	-3.6727	8.0000	685.7000	26.9997	0.3379
69.	258.4790	-4.9364	11.4545	665.7000	28.1354	0.4527
73.	258.4790	-6.6538	21.0000	645.7000	28.7943	0.7509
77.	258.4790	-8.2700	22.2000	625.7000	29.6841	0.7224
81.	258.4790	-10.4333	25.7500	605.7000	30.0010	0.7300
85.	258.4790	-12.4500	27.1250	585.7000	30.5932	0.6764
89.	258.4790	-14.5778	24.8889	565.7000	31.1068	0.5399
93.	258.4790	-16.7583	29.3333	545.7000	31.6618	0.5497
97.	258.4790	-18.9765	34.4706	525.7000	32.2575	0.5549
101.	258.4790	-19.8529	35.7647	505.7000	34.6267	0.5554
105.	258.4790	-20.2533	14.1333	485.7000	37.6843	0.2206
109.	258.4790	-22.2214	14.8571	465.7000	39.0019	0.2035
113.	258.4790	-24.6538	13.0000	445.7000	39.9165	0.1497
117.	258.4790	-26.9786	20.0714	425.7000	41.0412	0.1955
121.	258.4790	-29.6000	21.1429	405.7000	42.0951	0.1692
125.	258.4790	-32.0200	14.7333	385.7000	43.4269	0.0981
129.	258.4790	-34.9667	14.0000	365.7000	44.3577	0.0736
133.	258.4790	-37.7947	15.5263	345.7000	45.6493	0.0647
137.	258.4790	-41.4263	23.8421	325.7000	46.1054	0.0721
141.	258.4790	-44.9278	25.8333	305.7000	46.9940	0.0569
145.	258.4790	-48.0474	18.3684	285.7000	48.8132	0.0304
149.	258.4790	-51.1579	16.6842	265.7000	50.9586	0.0207
153.	258.4790	-53.9682	16.0000	245.7000	54.1541	0.0153
157.	258.4790	-54.0760	12.1200	225.7000	62.0056	0.0125
161.	258.4790	-51.8381	3.4762	205.7000	74.5276	0.0051

Ascent 18

```
*****************************************************************************
*   Field    * Units  *   Lower Limit   *  Upper Limit   * Absent data val *
*****************************************************************************
*  1.count1  *-       *      1195.714 *       4630.633 *      -999.000 *
*  2.day     *jdays   *       258.969 *        258.969 *      -999.000 *
*  3.temp    *degC    *       -57.493 *          8.771 *      -999.000 *
*  4.rel-hum *%       *         6.125 *         96.000 *      -999.000 *
*  5.press   *mb      *       202.400 *       1012.400 *      -999.000 *
*  6.potemp  *degc    *         7.245 *         68.790 *      -999.000 *
*  7.sp hum  *g/kg    *         0.012 *          4.685 *      -999.000 *
*****************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
1.	258.9690	8.7714	62.0000	1012.4000	7.7273	4.3127
5.	258.9690	6.7167	69.5000	992.4000	7.2817	4.2883
9.	258.9690	5.0667	76.0000	972.4000	7.2949	4.2708
13.	258.9690	3.9000	72.5000	952.4000	7.7975	3.8330
17.	258.9690	3.0167	92.3333	932.4000	8.5707	4.6847
21.	258.9690	1.9600	93.2000	912.4000	9.2631	4.4826
25.	258.9690	0.7667	78.3333	892.4000	9.8589	3.5346
29.	258.9690	-0.0167	84.0000	872.4000	10.8482	3.6615
33.	258.9690	-0.9833	81.5000	852.4000	11.6991	3.3864
37.	258.9690	-2.3778	88.2222	832.4000	12.2122	3.3885
41.	258.9690	-3.9333	94.1667	812.4000	12.5784	3.2999
45.	258.9690	-3.9000	86.2000	792.4000	14.5780	3.0990
49.	258.9690	-2.7125	72.7500	772.4000	17.9632	2.9333
53.	258.9690	-2.6400	41.6000	752.4000	20.2061	1.7115
57.	258.9690	-2.6333	25.0000	732.4000	22.5240	1.0690
61.	258.9690	-2.9750	13.6250	712.4000	24.5470	0.5840
65.	258.9690	-3.3333	7.5000	692.4000	26.5958	0.3220
69.	258.9690	-4.3750	21.8333	672.4000	27.8870	0.8923
73.	258.9690	-5.7889	27.4444	652.4000	28.9227	1.0382
77.	258.9690	-7.0182	30.2727	632.4000	30.1776	1.0737
81.	258.9690	-9.1875	38.2500	612.4000	30.5788	1.1851
85.	258.9690	-10.9417	37.3333	592.4000	31.3577	1.0396
89.	258.9690	-11.2143	17.0714	572.4000	34.0398	0.4812
93.	258.9690	-12.6917	23.5833	552.4000	35.4975	0.6118
97.	258.9690	-14.6429	20.4286	532.4000	36.3773	0.4685
101.	258.9690	-16.8286	17.8571	512.4000	37.1265	0.3546
105.	258.9690	-18.7429	10.7857	492.4000	38.3183	0.1893
109.	258.9690	-20.7750	13.0000	472.4000	39.4866	0.1993
113.	258.9690	-23.5133	13.6667	452.4000	39.9688	0.1718
117.	258.9690	-26.0706	32.9412	432.4000	40.7664	0.3433
121.	258.9690	-28.8789	37.5263	412.4000	41.4734	0.3159
125.	258.9690	-31.6842	39.5789	392.4000	42.3120	0.2678
129.	258.9690	-34.2611	34.3889	372.4000	43.6640	0.1905
133.	258.9690	-35.8316	19.7368	352.4000	46.5094	0.0986
137.	258.9690	-39.5333	25.2381	332.4000	46.9062	0.0914
141.	258.9690	-43.3130	29.9565	312.4000	47.3059	0.0771
145.	258.9690	-47.1304	38.5217	292.4000	47.8641	0.0691
149.	258.9690	-49.5333	24.0000	272.4000	51.0413	0.0352
153.	258.9690	-52.6800	24.3600	252.4000	53.5636	0.0266
157.	258.9690	-55.8040	26.3600	232.4000	56.6809	0.0213
161.	258.9690	-56.8500	20.0000	212.4000	63.6046	0.0155

Ascent 19

```
*****************************************************************************
*   Field     * Units  *   Lower Limit   *   Upper Limit   * Absent data val *
*****************************************************************************
*   1.count1  *-       *      1118.000 *        3740.357 *       -999.000 *
*   2.day     *jdays   *       259.489 *         259.489 *       -999.000 *
*   3.temp    *degC    *       -61.700 *          10.600 *       -999.000 *
*   4.rel-hum *%       *         5.182 *          91.200 *       -999.000 *
*   5.press   *mb      *       200.500 *        1010.500 *       -999.000 *
*   6.potemp  *degc    *         8.929 *          61.052 *       -999.000 *
*   7.sp hum  *g/kg    *         0.013 *           5.245 *       -999.000 *
*****************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	259.4890	10.6000	66.0000	1010.5000	9.9547	5.2219
5.	259.4890	8.1400	72.6000	990.5000	8.9457	4.9539
9.	259.4890	6.6000	78.7500	970.5000	9.0016	4.9337
13.	259.4890	5.2750	82.0000	950.5000	9.4173	4.7896
17.	259.4890	5.0333	75.0000	930.5000	10.8544	4.3970
21.	259.4890	3.8500	78.0000	910.5000	11.4200	4.3016
25.	259.4890	2.2500	89.5000	890.5000	11.5360	4.5032
29.	259.4890	1.3167	90.8333	870.5000	12.4218	4.3727
33.	259.4890	2.3500	82.8333	850.5000	15.4234	4.3952
37.	259.4890	1.5286	85.0000	830.5000	16.4384	4.3508
41.	259.4890	-0.0400	88.2000	810.5000	16.8671	4.1331
45.	259.4890	-0.9333	83.1667	790.5000	17.9003	3.7385
49.	259.4890	-1.5714	75.5714	770.5000	19.3909	3.3262
53.	259.4890	-2.9857	62.0000	750.5000	20.1044	2.5226
57.	259.4890	-3.5167	53.3333	730.5000	21.8093	2.1424
61.	259.4890	-4.0556	42.8889	710.5000	23.5220	1.6989
65.	259.4890	-3.7714	21.0000	690.5000	26.3460	0.8750
69.	259.4890	-2.4111	7.6667	670.5000	30.3276	0.3638
73.	259.4890	-3.9778	16.7778	650.5000	31.1126	0.7294
77.	259.4890	-5.8091	18.3636	630.5000	31.9220	0.7184
81.	259.4890	-7.5100	16.6000	610.5000	32.7627	0.5873
85.	259.4890	-9.5364	27.6364	590.5000	33.2428	0.8629
89.	259.4890	-11.1091	25.0909	570.5000	34.4505	0.7157
93.	259.4890	-12.2455	18.1818	550.5000	36.2969	0.4907
97.	259.4890	-12.7091	9.0909	530.5000	38.9963	0.2451
101.	259.4890	-15.1500	12.5000	510.5000	39.4764	0.2864
105.	259.4890	-17.0364	13.1818	490.5000	40.7173	0.2683
109.	259.4890	-19.4500	11.0714	470.5000	41.5319	0.1912
113.	259.4890	-21.9300	31.8000	450.5000	42.4097	0.4623
117.	259.4890	-23.7333	27.0667	430.5000	44.1856	0.3503
121.	259.4890	-25.7833	56.5833	410.5000	45.9075	0.6382
125.	259.4890	-28.7692	69.0769	390.5000	46.5660	0.6207
129.	259.4890	-31.0643	65.3571	370.5000	48.2632	0.4967
133.	259.4890	-34.1500	66.7500	350.5000	49.3189	0.3969
137.	259.4890	-36.8882	61.2941	330.5000	51.0341	0.2936
141.	259.4890	-40.2053	47.2632	310.5000	52.3143	0.1710
145.	259.4890	-43.9062	38.4375	290.5000	53.1852	0.0997
149.	259.4890	-48.2812	31.8750	270.5000	53.6376	0.0544
153.	259.4890	-52.8238	23.0000	250.5000	54.1052	0.0249
157.	259.4890	-57.6455	26.9091	230.5000	54.6276	0.0174
161.	259.4890	-61.3500	30.1667	210.5000	57.5046	0.0132

Ascent 20

```
************************************************************************
*   Field   * Units  *    Lower Limit   *   Upper Limit   * Absent data val *
************************************************************************
*  1.count1 *-       *       1162.778 *        3877.800 *       -999.000 *
*  2.day    *jdays   *        259.896 *         259.896 *       -999.000 *
*  3.temp   *degC    *        -54.935 *          10.378 *       -999.000 *
*  4.rel-hum *%      *         16.400 *         101.000 *       -999.000 *
*  5.press  *mb      *        198.600 *         998.600 *       -999.000 *
*  6.potemp *degc    *         10.242 *          75.999 *       -999.000 *
*  7.sp hum *g/kg    *          0.023 *           7.365 *       -999.000 *
************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	259.8960	10.3778	93.5556	998.6000	10.4102	7.3646
5.	259.8960	8.8500	98.0000	978.6000	10.6357	7.1126
9.	259.8960	7.9333	99.0000	958.6000	11.3185	6.8857
13.	259.8960	7.1000	100.0000	938.6000	12.1593	6.7068
17.	259.8960	6.2200	100.0000	918.6000	13.0818	6.4540
21.	259.8960	5.5800	100.0000	898.6000	14.2096	6.3095
25.	259.8960	5.1000	101.0000	878.6000	15.5934	6.3056
29.	259.8960	4.7500	101.0000	858.6000	17.1440	6.2974
33.	259.8960	4.1250	101.0000	838.6000	18.4537	6.1710
37.	259.8960	3.2000	100.0000	818.6000	19.4785	5.8616
41.	259.8960	2.4500	101.0000	798.6000	20.7351	5.7517
45.	259.8960	1.3600	99.0000	778.6000	21.7849	5.3524
49.	259.8960	0.7800	98.0000	758.6000	23.2329	5.2071
53.	259.8960	-0.1200	99.6000	738.6000	24.5631	5.0938
57.	259.8960	-1.1333	100.6667	718.6000	25.7570	4.9110
61.	259.8960	-2.6500	99.0000	698.6000	26.5328	4.4414
65.	259.8960	-4.0857	100.0000	678.6000	27.4797	4.1495
69.	259.8960	-5.2571	96.2857	658.6000	28.7136	3.7652
73.	259.8960	-6.7250	94.2500	638.6000	29.6892	3.3949
77.	259.8960	-8.1250	93.3750	618.6000	30.8523	3.1146
81.	259.8960	-10.1625	95.5000	598.6000	31.4082	2.8050
85.	259.8960	-12.0111	94.6667	578.6000	32.1742	2.4813
89.	259.8960	-13.5556	87.8889	558.6000	33.3682	2.1017
93.	259.8960	-15.5800	82.7000	538.6000	34.2405	1.7358
97.	259.8960	-17.8250	84.2500	518.6000	34.7790	1.5186
101.	259.8960	-20.2100	80.8000	498.6000	35.4100	1.2342
105.	259.8960	-21.0083	29.3333	478.6000	38.0445	0.4350
109.	259.8960	-22.8583	26.0833	458.6000	39.5939	0.3423
113.	259.8960	-25.5615	31.0769	438.6000	40.1749	0.3347
117.	259.8960	-28.4769	37.5385	418.6000	40.6486	0.3234
121.	259.8960	-30.4214	32.2857	398.6000	42.4865	0.2428
125.	259.8960	-33.5533	31.2667	378.6000	43.0820	0.1826
129.	259.8960	-36.2143	27.8571	358.6000	44.3832	0.1316
133.	259.8960	-39.2308	25.6923	338.6000	45.5837	0.0943
137.	259.8960	-42.0250	24.6250	318.6000	47.2987	0.0714
141.	259.8960	-44.9667	23.6111	298.6000	49.1906	0.0530
145.	259.8960	-48.3294	24.8824	278.6000	50.7115	0.0410
149.	259.8960	-51.5789	27.8947	258.6000	52.9006	0.0338
153.	259.8960	-54.7474	35.0000	238.6000	55.7580	0.0314
157.	259.8960	-53.6682	30.7273	218.6000	65.7432	0.0343
161.	259.8960	-52.5200	16.4000	198.6000	75.9993	0.0229

Ascent 21

```
************************************************************************
*   Field     * Units  *   Lower Limit   *   Upper Limit   * Absent data val *
************************************************************************
*   1.count1  *-       *      2990.286 *      6169.423 *      -999.000 *
*   2.day     *jdays   *       260.479 *       260.479 *      -999.000 *
*   3.temp    *degC    *       -55.662 *        10.986 *      -999.000 *
*   4.rel-hum *%       *        10.000 *        97.000 *      -999.000 *
*   5.press   *mb      *       203.900 *      1003.900 *      -999.000 *
*   6.potemp  *degc    *        10.490 *        69.761 *      -999.000 *
*   7.sp hum  *g/kg    *         0.012 *         6.856 *      -999.000 *
************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	260.4790	10.9857	82.2857	1003.9000	10.6307	6.7100
5.	260.4790	9.4833	85.1667	983.9000	10.8082	6.4114
9.	260.4790	9.3667	82.5000	963.9000	12.2995	6.2848
13.	260.4790	8.1444	89.2222	943.9000	12.8223	6.3938
17.	260.4790	7.9667	94.3333	923.9000	14.3447	6.8210
21.	260.4790	7.7500	91.5000	903.9000	15.9117	6.6615
25.	260.4790	6.7286	92.5714	883.9000	16.7413	6.4280
29.	260.4790	6.2778	90.8889	863.9000	18.2043	6.2614
33.	260.4790	5.6333	93.1111	843.9000	19.4952	6.2807
37.	260.4790	4.9111	91.5556	823.9000	20.7195	6.0126
41.	260.4790	4.3625	77.7500	803.9000	22.2000	5.0325
45.	260.4790	2.8889	81.0000	783.9000	22.7235	4.8431
49.	260.4790	1.3143	84.7143	763.9000	23.2804	4.6470
53.	260.4790	-0.5857	93.7143	743.9000	23.4783	4.5997
57.	260.4790	-2.1750	95.5000	723.9000	24.0092	4.2823
61.	260.4790	-2.1455	67.8182	703.9000	26.4545	3.1323
65.	260.4790	-2.3000	70.7000	683.9000	28.7689	3.3237
69.	260.4790	-4.0800	74.7000	663.9000	29.3589	3.1672
73.	260.4790	-5.6250	70.8750	643.9000	30.2088	2.7534
77.	260.4790	-7.4700	65.3000	623.9000	30.8655	2.2714
81.	260.4790	-8.4786	25.3571	603.9000	32.5144	0.8413
85.	260.4790	-9.9455	18.5455	583.9000	33.7564	0.5670
89.	260.4790	-12.0636	44.7273	563.9000	34.3942	1.1963
93.	260.4790	-14.2909	33.9091	543.9000	34.8958	0.7833
97.	260.4790	-15.8857	34.7857	523.9000	36.2934	0.7310
101.	260.4790	-18.1571	35.5714	503.9000	37.0121	0.6416
105.	260.4790	-20.3143	27.9286	483.9000	37.9484	0.4359
109.	260.4790	-22.6357	35.0714	463.9000	38.8273	0.4649
113.	260.4790	-24.5176	13.8824	443.9000	40.3732	0.1623
117.	260.4790	-26.8647	11.9412	423.9000	41.5467	0.1180
121.	260.4790	-30.0200	15.5000	403.9000	41.9259	0.1198
125.	260.4790	-32.2706	24.0588	383.9000	43.4727	0.1570
129.	260.4790	-35.4611	32.3333	363.9000	44.1278	0.1625
133.	260.4790	-38.0421	30.3158	343.9000	45.7617	0.1238
137.	260.4790	-41.3571	40.7143	323.9000	46.7158	0.1248
141.	260.4790	-43.5350	29.7000	303.9000	49.5196	0.0767
145.	260.4790	-46.2050	17.3000	283.9000	52.0690	0.0356
149.	260.4790	-47.5789	10.0000	263.9000	56.9046	0.0189
153.	260.4790	-51.3720	12.0400	233.9000	62.7424	0.0166
157.	260.4790	-54.7190	12.7143	213.9000	66.1212	0.0127

Ascent 22

```
***********************************************************************
*   Field    * Units  *   Lower Limit   *   Upper Limit   * Absent data val *
***********************************************************************
*  1.count1  *-       *      1297.500 *      4077.615 *      -999.000 *
*  2.day     *jdays   *       260.969 *       260.969 *      -999.000 *
*  3.temp    *degC    *       -59.018 *        10.700 *      -999.000 *
*  4.rel-hum *%       *        41.538 *        99.000 *      -999.000 *
*  5.press   *mb      *       204.000 *       999.000 *      -999.000 *
*  6.potemp  *degc    *        10.980 *        64.989 *      -999.000 *
*  7.sp hum  *g/kg    *         0.026 *         7.626 *      -999.000 *
***********************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
1.	260.9690	10.7000	94.0000	999.0000	10.9804	7.5839
5.	260.9690	9.6833	97.0000	979.0000	11.3899	7.4405
9.	260.9690	9.1800	98.0000	959.0000	12.5944	7.4210
13.	260.9690	8.5333	98.0000	939.0000	13.6432	7.2523
17.	260.9690	7.9000	98.0000	919.0000	14.7565	7.0966
21.	260.9690	7.0714	98.1429	899.0000	15.7480	6.8663
25.	260.9690	6.1000	99.0000	879.0000	16.6197	6.6257
29.	260.9690	5.1571	99.0000	859.0000	17.4923	6.3450
33.	260.9690	5.0167	90.1667	839.0000	19.3175	5.8579
37.	260.9690	4.5286	70.4286	819.0000	20.8393	4.5273
41.	260.9690	3.3000	70.4286	799.0000	21.5835	4.2536
45.	260.9690	1.9125	73.5000	779.0000	22.2584	4.1255
49.	260.9690	0.2875	76.5000	759.0000	22.6898	3.9186
53.	260.9690	-1.2625	77.0000	739.0000	23.2654	3.6164
57.	260.9690	-3.2286	83.1429	719.0000	23.4691	3.4697
61.	260.9690	-4.1500	95.6250	699.0000	24.8517	3.8322
65.	260.9690	-4.0875	94.1250	679.0000	27.4263	3.9025
69.	260.9690	-4.8167	97.0000	659.0000	29.1476	3.9197
73.	260.9690	-5.1111	98.5556	639.0000	31.4701	4.0160
77.	260.9690	-5.9667	98.0000	619.0000	33.2438	3.8603
81.	260.9690	-7.3333	96.0000	599.0000	34.6602	3.5211
85.	260.9690	-8.7556	95.0000	579.0000	35.9333	3.2233
89.	260.9690	-9.9444	92.3333	559.0000	37.6286	2.9534
93.	260.9690	-11.5556	91.2222	539.0000	38.9489	2.6600
97.	260.9690	-13.0222	91.0000	519.0000	40.6462	2.4491
101.	260.9690	-14.7000	88.2222	499.0000	42.0886	2.1502
105.	260.9690	-16.8444	87.0000	479.0000	43.1442	1.8463
109.	260.9690	-19.9000	87.6667	454.0000	44.5100	1.5159
113.	260.9690	-21.5400	84.0000	434.0000	46.2811	1.3133
117.	260.9690	-23.9231	82.0000	414.0000	47.5134	1.0865
121.	260.9690	-26.4687	79.9375	394.0000	48.7954	0.8828
125.	260.9690	-29.3312	77.5000	374.0000	49.8203	0.6899
129.	260.9690	-32.2714	73.5714	354.0000	50.9024	0.5212
133.	260.9690	-35.6500	70.0000	334.0000	51.3962	0.3746
137.	260.9690	-39.9235	66.0000	314.0000	51.7261	0.2433
141.	260.9690	-43.8467	59.2000	294.0000	52.2197	0.1528
145.	260.9690	-47.2937	46.6250	274.0000	53.7777	0.0880
149.	260.9690	-51.3348	42.6087	254.0000	54.9872	0.0542
153.	260.9690	-55.4708	45.9583	234.0000	56.5123	0.0385
157.	260.9690	-59.0182	44.1364	214.0000	59.4628	0.0258

Ascent 23

```
****************************************************************************
*   Field    * Units  *   Lower Limit   *   Upper Limit   * Absent data val *
****************************************************************************
*  1.count1  *-       *     1492.000 *        4192.250 *      -999.000 *
*  2.day     *jdays   *      262.479 *         262.479 *      -999.000 *
*  3.temp    *degC    *      -55.325 *          10.900 *      -999.000 *
*  4.rel-hum *%       *        1.000 *          83.800 *      -999.000 *
*  5.press   *mb      *      203.500 *         998.500 *      -999.000 *
*  6.potemp  *degc    *        9.878 *          81.200 *      -999.000 *
*  7.sp hum  *g/kg    *        0.002 *           4.900 *      -999.000 *
****************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
1.	262.4790	10.9000	60.0000	998.5000	11.2255	4.9004
5.	262.4790	8.1667	69.3333	978.5000	9.8778	4.7931
9.	262.4790	6.5800	76.8000	958.5000	9.9478	4.8626
13.	262.4790	5.0000	80.4286	938.5000	10.0682	4.6615
17.	262.4790	4.4500	74.8333	918.5000	11.2725	4.2642
21.	262.4790	2.9800	79.6000	898.5000	11.5472	4.1797
25.	262.4790	1.8000	83.8000	878.5000	12.1354	4.1358
29.	262.4790	1.8000	71.8000	858.5000	14.0563	3.6267
33.	262.4790	1.0200	68.8000	838.5000	15.1691	3.3631
37.	262.4790	-0.2667	70.5000	818.5000	15.8546	3.2176
41.	262.4790	-1.5833	73.6667	798.5000	16.4393	3.1266
45.	262.4790	-2.5429	76.7143	778.5000	17.4859	3.1094
49.	262.4790	-3.4667	70.5000	758.5000	18.7191	2.7389
53.	262.4790	-4.6000	65.2000	738.5000	19.7019	2.3875
57.	262.4790	-6.1222	69.0000	718.5000	20.3268	2.3125
61.	262.4790	-7.5300	69.5000	698.5000	21.1079	2.1482
65.	262.4790	-9.2429	78.8571	678.5000	21.6964	2.1960
69.	262.4790	-9.8200	73.0000	658.5000	23.5473	2.0004
73.	262.4790	-11.0429	67.0000	638.5000	24.7913	1.7176
77.	262.4790	-12.6800	67.5000	618.5000	25.6656	1.5661
81.	262.4790	-14.4800	69.6000	598.5000	26.3485	1.4390
85.	262.4790	-15.7000	62.6667	578.5000	27.8596	1.2114
89.	262.4790	-17.4222	43.2222	558.5000	28.9229	0.7491
93.	262.4790	-18.7250	41.5000	538.5000	30.5662	0.6676
97.	262.4790	-20.8250	59.8333	518.5000	31.2601	0.8330
101.	262.4790	-23.1083	65.4167	498.5000	31.9091	0.7739
105.	262.4790	-23.5500	45.7500	478.5000	34.9872	0.5423
109.	262.4790	-25.7846	41.8462	458.5000	35.9623	0.4225
113.	262.4790	-28.4143	45.6429	438.5000	36.5821	0.3776
117.	262.4790	-30.8385	45.6154	418.5000	37.6900	0.3143
121.	262.4790	-33.5077	42.4615	398.5000	38.5296	0.2367
125.	262.4790	-35.8000	36.9231	378.5000	40.1135	0.1723
129.	262.4790	-39.3062	31.0625	353.5000	41.6089	0.1084
133.	262.4790	-42.0769	30.7692	333.5000	42.9986	0.0847
137.	262.4790	-45.7733	35.6000	313.5000	43.7015	0.0697
141.	262.4790	-48.6556	32.0000	293.5000	45.5073	0.0482
145.	262.4790	-51.7176	37.5882	273.5000	47.5673	0.0425
149.	262.4790	-54.7737	35.0000	253.5000	50.0920	0.0295
153.	262.4790	-49.2095	8.0000	233.5000	66.1956	0.0140
157.	262.4790	-46.9870	2.0000	213.5000	78.5257	0.0050

Ascent 24

```
**********************************************************************
*   Field   * Units  *   Lower Limit   *   Upper Limit   * Absent data val *
**********************************************************************
*  1.count1  *-       *      1857.000 *      4902.038 *     -999.000 *
*  2.day     *jdays   *       262.896 *       262.896 *     -999.000 *
*  3.temp    *degC    *       -60.104 *         8.000 *     -999.000 *
*  4.rel-hum *%       *        13.300 *        98.000 *     -999.000 *
*  5.press   *mb      *       203.500 *      1008.500 *     -999.000 *
*  6.potemp  *degc    *         6.739 *        69.038 *     -999.000 *
*  7.sp hum  *g/kg    *         0.019 *         4.337 *     -999.000 *
**********************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
1.	262.8960	8.0000	65.0000	1008.5000	7.5199	4.3224
5.	262.8960	5.8500	66.0000	988.5000	6.7877	3.8526
9.	262.8960	4.2600	72.2000	968.5000	6.7838	3.8482
13.	262.8960	2.7000	74.6667	948.5000	6.8862	3.6394
17.	262.8960	1.0167	82.1667	928.5000	6.8756	3.6263
21.	262.8960	-0.7500	93.8333	908.5000	6.7851	3.7211
25.	262.8960	-2.1750	94.7500	888.5000	7.1139	3.4596
29.	262.8960	0.6667	40.3333	868.5000	11.8844	1.8529
33.	262.8960	-0.8000	54.1667	848.5000	12.2710	2.2900
37.	262.8960	-2.5000	71.2000	828.5000	12.4388	2.7205
41.	262.8960	-3.5200	80.0000	808.5000	13.3749	2.9039
45.	262.8960	-2.4625	41.2500	788.5000	16.5877	1.6607
49.	262.8960	-1.6818	26.4545	768.5000	19.5365	1.1570
53.	262.8960	-2.1100	38.1000	748.5000	21.2519	1.6573
57.	262.8960	-3.4875	44.0000	728.5000	22.0484	1.7753
61.	262.8960	-3.9111	27.0000	708.5000	23.9629	1.0841
65.	262.8960	-4.9000	15.0000	688.5000	25.3008	0.5754
69.	262.8960	-6.2727	17.3636	668.5000	26.2982	0.6177
73.	262.8960	-7.8000	20.3333	648.5000	27.1638	0.6626
77.	262.8960	-8.9444	20.6667	628.5000	28.5717	0.6355
81.	262.8960	-10.7667	24.5556	608.5000	29.2115	0.6748
85.	262.8960	-12.6273	22.0909	588.5000	29.9986	0.5406
89.	262.8960	-14.3750	21.5833	568.5000	30.8912	0.4736
93.	262.8960	-16.3583	32.8333	548.5000	31.7140	0.6334
97.	262.8960	-17.6846	26.1538	528.5000	33.4249	0.4684
101.	262.8960	-19.5846	44.0000	508.5000	34.4502	0.6954
105.	262.8960	-21.3733	43.8000	488.5000	35.7831	0.6165
109.	262.8960	-22.7143	42.3571	468.5000	37.8652	0.5523
113.	262.8960	-24.5333	37.0000	448.5000	39.4974	0.4281
117.	262.8960	-26.8400	34.7333	428.5000	40.6890	0.3407
121.	262.8960	-29.3812	33.8125	408.5000	41.6704	0.2742
125.	262.8960	-31.6000	25.1579	388.5000	43.3523	0.1734
129.	262.8960	-34.7133	32.6000	368.5000	44.0523	0.1744
133.	262.8960	-37.9526	47.8947	348.5000	44.6870	0.1948
137.	262.8960	-41.4474	52.6842	328.5000	45.2982	0.1576
141.	262.8960	-45.0706	57.0588	308.5000	45.9849	0.1225
145.	262.8960	-48.6833	54.7222	288.5000	46.9174	0.0835
149.	262.8960	-52.5000	49.2857	268.5000	48.1157	0.0517
153.	262.8960	-55.6696	45.5652	248.5000	50.6371	0.0351
157.	262.8960	-58.7692	40.0385	228.5000	53.7321	0.0226
161.	262.8960	-56.4233	31.5000	208.5000	66.0815	0.0262

Ascent 25

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************************************************************************
*    Field      * Units  *    Lower Limit   *   Upper Limit   * Absent data val *
************************************************************************
*   1.count1    *-       *        1501.000 *       3274.000 *      -999.000 *
*   2.day       *jdays   *         263.479 *        263.479 *      -999.000 *
*   3.temp      *degC    *         -38.700 *         10.600 *      -999.000 *
*   4.rel-hum   *%       *          34.857 *         83.800 *      -999.000 *
*   5.press     *mb      *         358.000 *        998.000 *      -999.000 *
*   6.potemp    *degc    *           9.890 *         40.697 *      -999.000 *
*   7.sp hum    *g/kg    *           0.138 *          4.886 *      -999.000 *
************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
1.	263.4790	10.6000	61.0000	998.0000	10.9659	4.8859
5.	263.4790	8.1250	69.5000	978.0000	9.9000	4.7948
9.	263.4790	6.5000	76.8000	958.0000	9.9562	4.8411
13.	263.4790	4.9667	80.5000	938.0000	10.0650	4.6565
17.	263.4790	4.4286	75.1429	918.0000	11.2889	4.2774
21.	263.4790	2.9500	79.7500	898.0000	11.5597	4.1809
25.	263.4790	1.8000	83.7143	878.0000	12.2162	4.1357
29.	263.4790	1.7833	71.6667	858.0000	14.0842	3.6176
33.	263.4790	1.0000	69.0000	838.0000	15.1926	3.3698
37.	263.4790	-0.2667	70.5000	818.0000	15.8546	3.2176
41.	263.4790	-1.6286	73.8571	798.0000	16.5037	3.1285
45.	263.4790	-2.5714	76.7143	778.0000	17.5345	3.1057
49.	263.4790	-3.5000	70.2857	758.0000	18.7205	2.7251
53.	263.4790	-4.6200	65.5000	738.0000	19.7413	2.3966
57.	263.4790	-6.1700	69.1000	718.0000	20.3656	2.3099
61.	263.4790	-7.6000	69.7778	698.0000	21.1223	2.1474
65.	263.4790	-9.3000	79.2500	678.0000	21.7477	2.2000
69.	263.4790	-9.8900	73.0000	658.0000	23.5881	1.9922
73.	263.4790	-11.0750	67.0000	638.0000	24.8046	1.7142
77.	263.4790	-12.7000	67.4444	618.0000	25.6770	1.5629
81.	263.4790	-14.5000	69.1000	598.0000	26.3983	1.4276
85.	263.4790	-15.7556	62.7778	578.0000	27.8789	1.2091
89.	263.4790	-17.4556	42.6667	558.0000	28.9626	0.7380
93.	263.4790	-18.7444	41.6667	538.0000	30.5851	0.6695
97.	263.4790	-20.9000	59.6364	518.0000	31.2839	0.8259
101.	263.4790	-23.1417	63.8333	498.0000	32.0172	0.7541
105.	263.4790	-23.5917	45.5000	478.0000	35.0125	0.5378
109.	263.4790	-25.8385	42.0000	458.0000	35.9706	0.4223
113.	263.4790	-28.4769	45.6154	438.0000	36.6159	0.3756
117.	263.4790	-30.8667	45.5833	418.0000	37.6954	0.3133
121.	263.4790	-33.5643	42.2857	398.0000	38.5832	0.2347
125.	263.4790	-35.8429	36.5714	378.0000	40.1838	0.1702

Ascent 26

```
***************************************************************
*   Field   * Units  *   Lower Limit   *  Upper Limit  * Absent data val *
***************************************************************
*  1.count1  *-       *      1557.000 *      5615.500 *    -999.000 *
*  2.day     *jdays   *       263.969 *       263.969 *    -999.000 *
*  3.temp    *degC    *       -57.309 *        12.550 *    -999.000 *
*  4.rel-hum *%       *         7.062 *        98.750 *    -999.000 *
*  5.press   *mb      *       201.500 *       996.500 *    -999.000 *
*  6.potemp  *degc    *         6.409 *        76.434 *    -999.000 *
*  7.sp hum  *g/kg    *         0.011 *         9.665 *    -999.000 *
***************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	263.9690	9.6000	90.0000	996.5000	10.0866	6.7597
5.	263.9690	10.7333	93.0000	976.5000	12.6633	7.6789
9.	263.9690	9.2500	97.0000	951.5000	13.3417	7.4414
13.	263.9690	10.2500	96.5000	906.5000	18.2238	8.3008
17.	263.9690	9.3000	94.0000	886.5000	19.1071	7.7577
21.	263.9690	8.2667	90.3333	866.5000	20.1240	7.1223
25.	263.9690	8.9250	88.7500	846.5000	22.7004	7.4996
29.	263.9690	5.9500	84.0000	826.5000	21.5614	5.9203
33.	263.9690	3.2250	87.2500	806.5000	20.7415	5.1974
37.	263.9690	2.2000	94.0000	786.5000	21.9343	5.3493
41.	263.9690	1.3250	97.0000	766.5000	23.0137	5.3111
45.	263.9690	-0.4000	98.0000	731.5000	25.1605	4.9627
49.	263.9690	-2.3857	97.0000	711.5000	25.2029	4.3543
53.	263.9690	-3.6385	96.0000	691.5000	26.3224	4.0408
57.	263.9690	-5.2800	93.5000	671.5000	26.9741	3.5776
61.	263.9690	-7.0154	92.2308	651.5000	27.6399	3.1844
65.	263.9690	-8.8833	87.3333	631.5000	28.1976	2.6942
69.	263.9690	-11.6812	29.5625	611.5000	27.8087	0.7517
73.	263.9690	-12.0100	22.2000	591.5000	30.3902	0.5690
77.	263.9690	-11.6909	19.1818	571.5000	33.6015	0.5210
81.	263.9690	-13.1643	38.2857	551.5000	35.0202	0.9574
85.	263.9690	-15.8000	46.5000	531.5000	34.8947	0.9676
89.	263.9690	-19.2118	54.0000	506.5000	35.2888	0.8855
93.	263.9690	-20.0800	74.0667	486.5000	37.8048	1.1733
97.	263.9690	-22.0267	67.2667	466.5000	39.0725	0.9362
101.	263.9690	-24.9474	77.7895	446.5000	39.3430	0.8706
105.	263.9690	-30.7000	59.7500	401.5000	41.9686	0.4437
109.	263.9690	-34.5083	63.7500	381.5000	41.0342	0.3358
113.	263.9690	-38.6500	60.6667	351.5000	43.1163	0.2282
117.	263.9690	-41.9143	53.8571	331.5000	43.8249	0.1520
121.	263.9690	-48.9083	42.6667	291.5000	46.0842	0.0640
125.	263.9690	-52.5367	42.9667	271.5000	47.1608	0.0444
129.	263.9690	-55.8310	42.9655	251.5000	49.1970	0.0320
133.	263.9690	-56.3031	33.1562	231.5000	56.0792	0.0253
137.	263.9690	-53.1667	13.0833	211.5000	69.5514	0.0160

Ascent 27

```
*********************************************************************
*    Field    * Units   *   Lower Limit   *   Upper Limit  * Absent data val *
*********************************************************************
*  1.count1   *-        *      1461.750 *      4114.103 *     -999.000 *
*  2.day      *jdays    *       264.479 *       264.479 *     -999.000 *
*  3.temp     *degC     *       -53.104 *        13.225 *     -999.000 *
*  4.rel-hum  *%        *        28.655 *       101.000 *     -999.000 *
*  5.press    *mb       *       203.500 *       978.500 *     -999.000 *
*  6.potemp   *degc     *        15.055 *        80.462 *     -999.000 *
*  7.sp hum   *g/kg     *         0.048 *         9.915 *     -999.000 *
*********************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	264.4790	13.2250	94.2500	978.5000	15.0550	9.2029
5.	264.4790	11.2875	96.0000	878.5000	22.0026	9.1435
9.	264.4790	11.2500	94.1250	858.5000	23.8475	9.1440
13.	264.4790	10.4167	95.5000	838.5000	24.9952	8.9873
17.	264.4790	9.3750	98.0000	818.5000	26.0267	8.8181
21.	264.4790	7.6143	97.5714	798.5000	26.2794	7.9822
25.	264.4790	6.2500	100.5000	778.5000	27.1247	7.6886
29.	264.4790	4.6143	101.0000	758.5000	27.4614	7.0644
33.	264.4790	3.1500	99.0000	738.5000	28.1438	6.4105
37.	264.4790	2.0500	99.0000	718.5000	29.2900	6.0901
41.	264.4790	0.9909	98.0000	698.5000	30.5974	5.7476
45.	264.4790	-0.3444	97.8889	678.5000	31.6597	5.3646
49.	264.4790	-1.5000	98.0000	658.5000	32.9049	5.0792
53.	264.4790	-2.9600	97.0000	638.5000	34.0378	4.6561
57.	264.4790	-4.3400	96.0000	618.5000	35.1921	4.2848
61.	264.4790	-5.7333	95.3333	598.5000	36.5064	3.9555
65.	264.4790	-7.3444	93.0000	578.5000	37.6732	3.5268
69.	264.4790	-8.9818	92.5455	558.5000	38.8640	3.1978
73.	264.4790	-10.7222	89.6667	538.5000	40.0207	2.7980
77.	264.4790	-12.5333	89.0000	518.5000	41.3311	2.4951
81.	264.4790	-14.4500	85.3333	498.5000	42.5827	2.1276
85.	264.4790	-15.5583	83.0000	478.5000	44.8407	1.9644
89.	264.4790	-14.9900	82.6000	458.5000	49.5175	2.1409
93.	264.4790	-16.9636	81.2727	438.5000	51.1091	1.8660
97.	264.4790	-19.2900	79.1000	418.5000	52.4948	1.5604
101.	264.4790	-21.8385	78.0769	398.5000	53.7499	1.2947
105.	264.4790	-24.6333	74.5556	378.5000	54.5768	1.0099
109.	264.4790	-28.0267	70.7333	358.5000	55.5214	0.7430
113.	264.4790	-31.4833	66.4167	338.5000	56.3222	0.5322
117.	264.4790	-34.7176	62.1765	318.5000	57.4973	0.3848
121.	264.4790	-38.4000	57.1053	298.5000	58.4862	0.2593
125.	264.4790	-42.5000	52.2381	278.5000	59.2857	0.1649
129.	264.4790	-46.7667	47.5000	258.5000	60.0327	0.1008
133.	264.4790	-51.1182	43.7273	238.5000	61.2877	0.0608
137.	264.4790	-51.4750	40.1000	218.5000	69.2287	0.0584

Ascent 28

```
*******************************************************************
*    Field    * Units  *   Lower Limit   *   Upper Limit   * Absent data val *
*******************************************************************
*  1.count1   *-       *     1288.500 *       4049.333 *      -999.000 *
*  2.day      *jdays   *      264.958 *        264.958 *      -999.000 *
*  3.temp     *degC    *      -44.656 *         10.675 *      -999.000 *
*  4.rel-hum  *%       *        0.000 *         91.833 *      -999.000 *
*  5.press    *mb      *      200.700 *        975.700 *      -999.000 *
*  6.potemp   *degc    *       12.704 *         89.840 *      -999.000 *
*  7.sp hum   *g/kg    *        0.000 *          6.002 *      -999.000 *
*******************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
1.	264.9580	10.6750	73.0000	975.7000	12.7042	6.0016
5.	264.9580	9.1833	77.3333	955.7000	12.8480	5.8697
9.	264.9580	7.7400	79.2000	935.7000	13.0793	5.5640
13.	264.9580	6.1000	84.5714	915.7000	13.1557	5.4227
17.	264.9580	4.4167	91.3333	895.7000	13.2591	5.3262
21.	264.9580	3.2429	81.2857	875.7000	13.9395	4.4624
25.	264.9580	2.9571	69.1429	855.7000	15.5395	3.8063
29.	264.9580	1.9625	63.6250	835.7000	16.4277	3.3389
33.	264.9580	1.0000	58.3750	815.7000	17.4502	2.9290
37.	264.9580	-0.3000	59.3333	795.7000	18.0529	2.7744
41.	264.9580	-1.7500	59.3750	775.7000	18.6895	2.5623
45.	264.9580	-3.3200	53.1000	755.7000	19.1307	2.0911
49.	264.9580	-4.8143	53.1429	735.7000	19.7965	1.9219
53.	264.9580	-6.1250	51.5000	715.7000	20.6407	1.7314
57.	264.9580	-7.8800	57.5000	695.7000	21.1226	1.7374
61.	264.9580	-9.1625	53.2500	675.7000	22.1804	1.4987
65.	264.9580	-10.6000	51.0000	655.7000	23.0433	1.3187
69.	264.9580	-12.3375	48.5000	635.7000	23.6952	1.1250
73.	264.9580	-14.0100	38.3000	615.7000	24.5187	0.8002
77.	264.9580	-15.6800	24.9000	595.7000	25.4058	0.4682
81.	264.9580	-17.6100	28.0000	575.7000	26.0545	0.4629
85.	264.9580	-19.6909	24.0000	555.7000	26.6413	0.3440
89.	264.9580	-21.9636	23.6364	535.7000	27.1045	0.2883
93.	264.9580	-23.1000	10.6250	515.7000	28.9591	0.1215
97.	264.9580	-24.7714	16.0000	495.7000	30.3702	0.1639
101.	264.9580	-27.3286	25.5000	475.7000	30.7657	0.2151
105.	264.9580	-28.9273	16.0000	455.7000	32.5163	0.1213
109.	264.9580	-31.4800	15.6000	435.7000	33.2642	0.0968
113.	264.9580	-33.6786	22.8571	415.7000	34.5952	0.1200
117.	264.9580	-36.9643	27.8571	395.7000	34.6796	0.1105
121.	264.9580	-39.6067	18.6667	375.7000	35.7644	0.0593
125.	264.9580	-41.3312	10.8125	355.7000	38.3087	0.0303
129.	264.9580	-41.6000	12.3750	335.7000	43.1437	0.0356
133.	264.9580	-42.3167	9.0556	315.7000	47.7946	0.0257
137.	264.9580	-44.3167	9.0000	295.7000	50.9428	0.0219
141.	264.9580	-44.6000	5.0000	275.7000	57.0882	0.0126
145.	264.9580	-42.4286	1.7619	255.7000	67.4712	0.0061
149.	264.9580	-41.7130	0.9130	235.7000	76.6328	0.0037
153.	264.9580	-42.6379	0.0345	215.7000	84.0915	0.0001

Ascent 29

```
**********************************************************************
*   Field    * Units   *   Lower Limit   *   Upper Limit  * Absent data val *
**********************************************************************
*  1.count1  *-        *       2503.111 *       5444.852 *    -999.000 *
*  2.day     *jdays    *        265.479 *        265.479 *    -999.000 *
*  3.temp    *degC     *        -46.300 *         10.522 *    -999.000 *
*  4.rel-hum *%        *          3.000 *         93.333 *    -999.000 *
*  5.press   *mb       *        203.600 *        978.600 *    -999.000 *
*  6.potemp  *degc     *         11.251 *         93.371 *    -999.000 *
*  7.sp hum  *g/kg     *          0.014 *          5.100 *    -999.000 *
**********************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	265.4790	10.5222	61.4444	978.6000	12.2105	4.9726
5.	265.4790	8.1286	70.8571	958.6000	11.5217	4.9888
9.	265.4790	6.5833	77.8333	938.6000	11.6925	5.0364
13.	265.4790	4.9000	84.2857	918.6000	11.7061	4.9575
17.	265.4790	3.3286	83.5714	898.6000	11.9618	4.5019
21.	265.4790	2.1750	79.8750	878.6000	12.5167	4.0475
25.	265.4790	0.2667	84.0000	858.6000	12.4362	3.7981
29.	265.4790	-0.4500	79.3750	838.6000	13.5715	3.4853
33.	265.4790	-1.1750	75.7500	818.6000	14.8512	3.2322
37.	265.4790	-2.2778	69.2222	798.6000	15.6977	2.7900
41.	265.4790	-3.4333	68.8889	778.6000	16.5596	2.6129
45.	265.4790	-4.5600	63.0000	758.6000	17.4771	2.2518
49.	265.4790	-6.0667	66.5556	738.6000	18.0680	2.1787
53.	265.4790	-7.5846	63.6923	718.6000	18.6918	1.9061
57.	265.4790	-9.1100	66.6000	698.6000	19.3598	1.8192
61.	265.4790	-10.7909	68.6364	678.6000	19.9584	1.6898
65.	265.4790	-12.5300	65.0000	658.6000	20.5079	1.4332
69.	265.4790	-14.3900	74.1000	638.6000	20.9453	1.4462
73.	265.4790	-16.0750	66.1667	618.6000	21.7211	1.1593
77.	265.4790	-17.9000	70.7500	598.6000	22.3789	1.0978
81.	265.4790	-19.7273	71.1818	578.6000	23.1116	0.9765
85.	265.4790	-21.8769	74.9231	558.6000	23.6108	0.8827
89.	265.4790	-23.7923	63.5385	538.6000	24.4255	0.6540
93.	265.4790	-26.2000	71.1667	518.6000	24.7906	0.6118
97.	265.4790	-27.9000	32.6923	498.6000	26.0649	0.2498
101.	265.4790	-29.4857	20.5000	478.6000	27.6045	0.1405
105.	265.4790	-31.8000	31.0000	458.6000	28.4122	0.1775
109.	265.4790	-33.9286	22.9286	438.6000	29.6230	0.1114
113.	265.4790	-36.5875	24.3125	418.6000	30.2444	0.0947
117.	265.4790	-39.0500	30.6250	398.6000	31.2678	0.0972
121.	265.4790	-41.7375	30.3125	378.6000	32.3087	0.0763
125.	265.4790	-43.4118	20.4118	358.6000	34.7742	0.0452
129.	265.4790	-45.3947	18.8421	338.6000	37.1923	0.0356
133.	265.4790	-45.4765	13.7647	318.6000	42.5565	0.0274
137.	265.4790	-46.0450	11.6000	298.6000	47.6111	0.0231
141.	265.4790	-43.2238	7.1429	278.6000	58.0723	0.0208
145.	265.4790	-39.3625	3.8333	258.6000	70.9085	0.0182
149.	265.4790	-39.5840	3.0000	238.6000	78.5471	0.0150
153.	265.4790	-39.3346	3.0000	218.6000	87.8747	0.0169

Ascent 30

```
***********************************************************************
*   Field    * Units  *   Lower Limit   *   Upper Limit   * Absent data val *
***********************************************************************
*  1.count1  *-       *      1158.600 *       3400.462 *      -999.000 *
*  2.day     *jdays   *       265.896 *        265.896 *      -999.000 *
*  3.temp    *degC    *       -44.508 *          9.820 *      -999.000 *
*  4.rel-hum *%       *         0.958 *         94.750 *      -999.000 *
*  5.press   *mb      *       203.800 *        983.800 *      -999.000 *
*  6.potemp  *degc    *        10.674 *         93.316 *      -999.000 *
*  7.sp hum  *g/kg    *         0.005 *          5.352 *      -999.000 *
***********************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
1.	265.8960	9.8200	69.4000	983.8000	11.1022	5.3368
5.	265.8960	7.7333	77.3333	963.8000	10.7305	5.2760
9.	265.8960	6.2333	78.8333	943.8000	10.9190	4.9536
13.	265.8960	4.6800	86.2000	923.8000	11.0452	4.9655
17.	265.8960	3.2800	89.8000	903.8000	11.3583	4.7892
21.	265.8960	2.2000	84.8000	883.8000	12.0694	4.2818
25.	265.8960	0.7000	86.7500	863.8000	12.3682	4.0224
29.	265.8960	-1.0000	93.5000	843.8000	12.5223	3.9218
33.	265.8960	-2.5000	93.5000	823.8000	12.9262	3.5961
37.	265.8960	-3.4200	75.0000	803.8000	13.9092	2.7568
41.	265.8960	-4.2000	75.5000	783.8000	15.1948	2.6854
45.	265.8960	-5.2000	69.8000	763.8000	16.2649	2.3620
49.	265.8960	-6.9000	66.6000	743.8000	16.6333	2.0316
53.	265.8960	-8.1800	71.8000	723.8000	17.4339	2.0361
57.	265.8960	-10.0167	78.8333	703.8000	17.7327	1.9896
61.	265.8960	-11.6000	79.3333	683.8000	18.3831	1.8159
65.	265.8960	-13.3571	81.0000	663.8000	18.9077	1.6566
69.	265.8960	-15.1500	82.8333	643.8000	19.4183	1.5065
73.	265.8960	-16.8143	76.0000	623.8000	20.1570	1.2408
77.	265.8960	-18.9857	78.8571	603.8000	20.4373	1.1059
81.	265.8960	-20.9375	79.6250	583.8000	20.9414	0.9745
85.	265.8960	-22.9333	73.8889	563.8000	21.5414	0.7849
89.	265.8960	-25.0000	75.8889	543.8000	22.1341	0.6937
93.	265.8960	-27.0500	65.0000	523.8000	22.8496	0.5110
97.	265.8960	-29.3909	51.1818	503.8000	23.3676	0.3361
101.	265.8960	-31.8111	56.2222	483.8000	23.7844	0.3046
105.	265.8960	-34.6857	61.5714	463.8000	23.8901	0.2625
109.	265.8960	-37.1667	53.3333	443.8000	24.4940	0.1848
113.	265.8960	-39.0769	44.2308	423.8000	25.9937	0.1317
117.	265.8960	-41.6538	48.1538	403.8000	26.8070	0.1146
121.	265.8960	-43.0000	32.2000	383.8000	29.3120	0.0697
125.	265.8960	-44.4100	22.6000	363.8000	32.1254	0.0442
129.	265.8960	-43.9308	13.8462	343.8000	37.8667	0.0302
133.	265.8960	-42.1500	7.1667	323.8000	45.7210	0.0202
137.	265.8960	-41.9562	4.0000	303.8000	51.7412	0.0122
141.	265.8960	-40.1375	3.0000	283.8000	60.7650	0.0119
145.	265.8960	-40.2211	2.0000	263.8000	67.7275	0.0085
149.	265.8960	-39.4773	1.1818	243.8000	76.5296	0.0059
153.	265.8960	-40.7667	1.0000	223.8000	83.1424	0.0047
157.	265.8960	-40.8708	1.0000	213.8000	87.7630	0.0049

Ascent 31

```
**************************************************************
*   Field    * Units  *   Lower Limit   *   Upper Limit  * Absent data val *
**************************************************************
*  1.count1  *-       *       967.750 *       4197.407 *      -999.000 *
*  2.day     *jdays   *       266.548 *        266.548 *      -999.000 *
*  3.temp    *degC    *       -44.000 *          9.800 *      -999.000 *
*  4.rel-hum *%       *         0.222 *         85.571 *      -999.000 *
*  5.press   *mb      *       202.700 *        987.700 *      -999.000 *
*  6.potemp  *degc    *         9.357 *         88.376 *      -999.000 *
*  7.sp hum  *g/kg    *         0.001 *          5.277 *      -999.000 *
**************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
1.	266.5480	9.8000	66.7500	987.7000	10.8474	5.1050
5.	266.5480	6.8000	80.7143	967.7000	9.4136	5.1402
9.	266.5480	5.2500	83.3750	947.7000	9.5963	4.8739
13.	266.5480	4.1444	77.0000	927.7000	10.1302	4.2512
17.	266.5480	3.2300	70.3000	907.7000	10.9948	3.7191
21.	266.5480	2.1000	70.7500	887.7000	11.6316	3.5307
25.	266.5480	0.6750	73.6250	867.7000	12.0279	3.3932
29.	266.5480	-0.7444	77.8889	847.7000	12.3874	3.3112
33.	266.5480	-0.8778	69.7778	827.7000	14.2400	3.0094
37.	266.5480	-2.6111	75.5556	807.7000	14.4052	2.9375
41.	266.5480	-3.7667	73.1111	787.7000	15.2134	2.6723
45.	266.5480	-4.7600	62.9000	767.7000	16.2948	2.1887
49.	266.5480	-6.1222	61.7778	747.7000	17.0388	1.9900
53.	266.5480	-7.3417	54.8333	727.7000	17.9434	1.6514
57.	266.5480	-8.8500	74.8750	707.7000	18.5823	2.0609
61.	266.5480	-10.7200	78.9000	687.7000	18.9215	1.9281
65.	266.5480	-12.3667	77.2500	667.7000	19.5543	1.7030
69.	266.5480	-13.6545	69.6364	647.7000	20.6554	1.4249
73.	266.5480	-14.8615	56.2308	627.7000	21.8872	1.0743
77.	266.5480	-16.5385	57.1538	607.7000	22.7022	0.9803
81.	266.5480	-17.9385	69.8462	587.7000	23.9182	1.1008
85.	266.5480	-19.8143	65.0714	567.7000	24.6428	0.9033
89.	266.5480	-21.7846	57.6154	547.7000	25.3925	0.6979
93.	266.5480	-23.8385	56.8462	527.7000	26.1470	0.5954
97.	266.5480	-25.7231	53.3846	507.7000	27.1062	0.4891
101.	266.5480	-27.7800	39.7333	487.7000	28.0913	0.3137
105.	266.5480	-29.9200	43.5333	467.7000	29.0504	0.2927
109.	266.5480	-32.5375	42.8125	447.7000	29.5548	0.2336
113.	266.5480	-34.7562	26.8750	427.7000	30.6897	0.1233
117.	266.5480	-36.6722	23.4444	407.7000	32.4186	0.0930
121.	266.5480	-36.8235	14.1176	387.7000	36.6211	0.0580
125.	266.5480	-38.0389	9.8889	367.7000	39.7411	0.0378
129.	266.5480	-37.2059	4.0000	347.7000	45.9497	0.0176
133.	266.5480	-37.9278	3.8889	327.7000	50.3397	0.0169
137.	266.5480	-38.6789	3.0000	302.7000	56.8169	0.0131
141.	266.5480	-40.4444	3.2222	282.7000	60.6302	0.0124
145.	266.5480	-41.8571	1.2857	262.7000	65.7194	0.0046
149.	266.5480	-42.5296	1.0000	242.7000	72.4547	0.0036
153.	266.5480	-43.4067	1.0000	222.7000	79.7118	0.0036
157.	266.5480	-44.0000	0.2222	202.7000	88.3761	0.0008

Ascent 32

```
**********************************************************************
*    Field    * Units  *   Lower Limit   *   Upper Limit   * Absent data val *
**********************************************************************
*  1.count1   *-       *       765.000 *      3762.909 *      -999.000 *
*  2.day      *jdays   *       267.000 *       267.000 *      -999.000 *
*  3.temp     *degC    *       -45.950 *         8.800 *      -999.000 *
*  4.rel-hum  *%       *        22.107 *       100.625 *      -999.000 *
*  5.press    *mb      *       204.500 *       974.500 *      -999.000 *
*  6.potemp   *degc    *        10.739 *        91.860 *      -999.000 *
*  7.sp hum   *g/kg    *         0.057 *         6.549 *      -999.000 *
**********************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
1.	267.0000	8.8000	90.0000	974.5000	11.0971	6.5488
5.	267.0000	7.0000	95.7500	954.5000	10.7598	6.2752
9.	267.0000	5.9364	96.1818	934.5000	11.3909	5.9815
13.	267.0000	4.9000	97.7500	914.5000	12.0875	5.7788
17.	267.0000	4.5000	100.0000	894.5000	13.4884	5.8780
21.	267.0000	3.7667	99.0000	874.5000	14.5796	5.6521
25.	267.0000	2.4875	99.1250	849.5000	15.6369	5.3199
29.	267.0000	1.5300	99.2000	829.5000	16.6293	5.0924
33.	267.0000	0.7429	99.4286	809.5000	17.8070	4.9404
37.	267.0000	-0.0286	100.2857	789.5000	19.1039	4.8328
41.	267.0000	-0.8444	99.7778	769.5000	20.3318	4.6451
45.	267.0000	-2.0429	99.0000	749.5000	21.2560	4.3316
49.	267.0000	-3.1125	99.0000	729.5000	22.3835	4.1102
53.	267.0000	-4.4300	98.8000	709.5000	23.2453	3.8174
57.	267.0000	-5.7889	96.0000	689.5000	24.1614	3.4413
61.	267.0000	-10.9500	52.0000	639.5000	24.7406	1.3404
65.	267.0000	-12.3700	51.0000	619.5000	25.8750	1.2108
69.	267.0000	-13.1000	36.0909	599.5000	27.8475	0.8345
73.	267.0000	-15.1889	42.6667	579.5000	28.3332	0.8591
77.	267.0000	-17.5800	49.6000	559.5000	28.5861	0.8468
81.	267.0000	-19.6667	69.7778	539.5000	29.2114	1.0327
85.	267.0000	-20.8667	85.8889	519.5000	31.0717	1.1895
89.	267.0000	-21.7444	87.3333	499.5000	33.4067	1.1644
93.	267.0000	-24.1818	88.5455	479.5000	33.9580	0.9889
97.	267.0000	-26.1100	88.3000	459.5000	35.3711	0.8639
101.	267.0000	-28.5769	83.6154	439.5000	36.1327	0.6798
105.	267.0000	-32.2059	60.1176	419.5000	35.7062	0.3622
109.	267.0000	-34.8062	51.5625	399.5000	36.6616	0.2521
113.	267.0000	-35.9389	35.1111	379.5000	39.7142	0.1612
117.	267.0000	-37.9842	34.1053	359.5000	41.8662	0.1342
121.	267.0000	-40.4368	32.3684	339.5000	43.7637	0.1044
125.	267.0000	-42.6316	28.6316	319.5000	46.2385	0.0776
129.	267.0000	-45.3412	30.5882	299.5000	48.2660	0.0656
133.	267.0000	-42.9375	24.8750	279.5000	58.2053	0.0748
137.	267.0000	-42.1885	22.8462	259.5000	66.4734	0.0800
141.	267.0000	-40.8379	22.7241	239.5000	76.3555	0.0995
145.	267.0000	-40.8036	22.1071	219.5000	85.2362	0.1060

Ascent 33

```
*****************************************************************************
*   Field    * Units  *   Lower Limit   *   Upper Limit   * Absent data val *
*****************************************************************************
*   1.count1  *-      *      1303.000 *      4286.500 *      -999.000 *
*   2.day     *jdays  *       267.489 *       267.489 *      -999.000 *
*   3.temp    *degC   *       -43.541 *         9.500 *      -999.000 *
*   4.rel-hum *%      *         0.000 *        95.500 *      -999.000 *
*   5.press   *mb     *       237.500 *       967.500 *      -999.000 *
*   6.potemp  *degc   *        11.833 *        77.341 *      -999.000 *
*   7.sp hum  *g/kg   *         0.000 *         6.300 *      -999.000 *
*****************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
****	********	********	********	********	********	********
1.	267.4890	9.5000	82.0000	967.5000	12.3918	6.2997
5.	267.4890	7.4286	87.4286	947.5000	11.8332	5.9464
9.	267.4890	6.2000	90.2000	927.5000	12.2352	5.7523
13.	267.4890	4.8333	90.3333	907.5000	12.6818	5.3574
17.	267.4890	3.5857	94.7143	887.5000	13.2166	5.2616
21.	267.4890	3.0900	88.9000	867.5000	14.5396	4.8745
25.	267.4890	2.7333	77.6667	847.5000	16.0740	4.2483
29.	267.4890	1.9222	78.0000	827.5000	17.2245	4.1247
33.	267.4890	0.5000	82.8571	807.5000	17.7060	4.0506
37.	267.4890	-0.6200	82.6000	787.5000	18.6311	3.8175
41.	267.4890	-1.8286	78.4286	767.5000	19.5019	3.4029
45.	267.4890	-2.8417	73.2500	747.5000	20.5624	3.0242
49.	267.4890	-4.4444	70.8889	727.5000	21.1068	2.6663
53.	267.4890	-5.7917	63.3333	707.5000	22.0146	2.2115
57.	267.4890	-6.7600	51.3000	687.5000	23.3682	1.7108
61.	267.4890	-8.3250	46.9167	667.5000	24.1267	1.4269
65.	267.4890	-10.2000	42.9231	647.5000	24.5871	1.1608
69.	267.4890	-12.0273	38.6364	627.5000	25.1427	0.9308
73.	267.4890	-13.7769	52.0000	607.5000	25.9023	1.1221
77.	267.4890	-16.0308	59.7692	587.5000	26.1555	1.1067
81.	267.4890	-17.6571	45.5714	567.5000	27.2466	0.7619
85.	267.4890	-19.2600	33.0000	547.5000	28.4246	0.4981
89.	267.4890	-21.2500	43.5000	527.5000	29.2652	0.5735
93.	267.4890	-23.8545	54.2727	507.5000	29.5060	0.5901
97.	267.4890	-26.4937	62.9375	487.5000	29.7261	0.5601
101.	267.4890	-28.5067	19.6000	467.5000	30.8238	0.1507
105.	267.4890	-30.5250	16.0000	447.5000	32.1597	0.1062
109.	267.4890	-32.8706	14.0000	427.5000	33.1668	0.0775
113.	267.4890	-35.0647	13.6471	407.5000	34.5511	0.0637
117.	267.4890	-36.3316	9.0000	387.5000	37.3608	0.0389
121.	267.4890	-38.3158	10.0000	367.5000	39.4870	0.0372
125.	267.4890	-40.2789	10.8421	347.5000	41.8224	0.0347
129.	267.4890	-43.2100	11.9500	327.5000	43.1894	0.0297
133.	267.4890	-42.9136	6.0455	307.5000	49.2901	0.0165
137.	267.4890	-42.2042	1.0000	287.5000	56.6198	0.0032
141.	267.4890	-40.3577	0.0000	267.5000	66.1768	0.0000
145.	267.4890	-40.7556	0.0000	247.5000	73.1998	0.0000

Ascent 34

```
************************************************************************
*   Field    * Units  *   Lower Limit   *   Upper Limit   * Absent data val *
************************************************************************
*  1.count1  *-       *     1655.200 *      4183.000 *        -999.000 *
*  2.day     *jdays   *      267.896 *       267.896 *        -999.000 *
*  3.temp    *degC    *      -50.545 *         8.540 *        -999.000 *
*  4.rel-hum *%       *        0.000 *        99.000 *        -999.000 *
*  5.press   *mb      *      202.200 *       977.200 *        -999.000 *
*  6.potemp  *degc    *       10.100 *        87.936 *        -999.000 *
*  7.sp hum  *g/kg    *        0.000 *         5.961 *        -999.000 *
************************************************************************
```

DATA CYC.	day jdays	temp degC	rel-hum %	press mb	potemp degc	sp hum g/kg
1.	267.8960	8.5400	83.6000	977.2000	10.3328	5.9378
5.	267.8960	6.6286	90.5714	957.2000	10.1230	5.7660
9.	267.8960	5.1500	96.5000	937.2000	10.3899	5.6671
13.	267.8960	3.6000	92.4000	917.2000	10.5192	4.9691
17.	267.8960	2.7167	87.6667	897.2000	11.4112	4.5264
21.	267.8960	1.2167	95.5000	877.2000	11.7115	4.5309
25.	267.8960	0.5143	95.0000	857.2000	12.8531	4.3834
29.	267.8960	0.0000	93.2857	837.2000	14.2062	4.2430
33.	267.8960	-1.3833	98.0000	817.2000	14.7776	4.1288
37.	267.8960	-2.3800	98.0000	797.2000	15.6911	3.9279
41.	267.8960	-3.2667	98.0000	777.2000	16.8616	3.7718
45.	267.8960	-4.4600	98.4000	757.2000	17.7739	3.5547
49.	267.8960	-5.6714	98.4286	737.2000	18.6456	3.3289
53.	267.8960	-7.0250	95.8750	717.2000	19.5002	3.0046
57.	267.8960	-8.1167	90.3333	697.2000	20.6406	2.6743
61.	267.8960	-9.5143	87.2857	677.2000	21.5101	2.3829
65.	267.8960	-10.8333	82.4444	657.2000	22.5945	2.0889
69.	267.8960	-12.3429	84.0000	637.2000	23.4882	1.9438
73.	267.8960	-13.6625	79.7500	617.2000	24.6931	1.7109
77.	267.8960	-15.5000	80.4545	597.2000	25.3831	1.5324
81.	267.8960	-17.3250	72.3333	577.2000	26.1861	1.2229
85.	267.8960	-19.6800	80.7000	557.2000	26.3809	1.1546
89.	267.8960	-21.4625	72.5000	537.2000	27.4320	0.9212
93.	267.8960	-22.7900	47.6000	517.2000	29.1328	0.5585
97.	267.8960	-24.9692	72.0769	497.2000	29.8732	0.7230
101.	267.8960	-27.3417	64.5000	477.2000	30.4847	0.5419
105.	267.8960	-29.5615	60.0000	457.2000	31.4414	0.4267
109.	267.8960	-31.5909	41.8182	437.2000	32.7641	0.2551
113.	267.8960	-32.6583	17.5833	417.2000	35.5921	0.1017
117.	267.8960	-34.6125	52.8125	397.2000	37.4034	0.2647
121.	267.8960	-36.9533	50.7333	377.2000	38.9073	0.2114
125.	267.8960	-39.4500	30.3125	357.2000	40.4761	0.1030
129.	267.8960	-42.7167	33.6111	337.2000	41.2218	0.0855
133.	267.8960	-45.7733	30.9333	317.2000	42.4901	0.0598
137.	267.8960	-48.5692	28.1538	297.2000	44.4966	0.0423
141.	267.8960	-50.3529	18.5882	277.2000	48.2959	0.0243
145.	267.8960	-47.7238	6.0476	257.2000	59.1144	0.0115
149.	267.8960	-44.3130	1.9565	237.2000	72.0097	0.0059
153.	267.8960	-43.9760	0.5600	217.2000	81.4136	0.0019