Appendix G-B: Sample File Formats

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G-B1. SAMPLE SITE.DAT FILE

[Data line contents: site number; site abbreviation; site description; experiment name; latitude; longitude; elevation (m)]

39 hou Houston, TX	HOU 32.24 -88.20 70
53 ast Astoria, OR	ONR 46.16 -124.27 3
43 sci San Clemente Island	SCT 33.02 -118.59 49
44 ptl Point Loma	SCT 32.70 -117.25 20
45 ptm Point Mugu	SCT 34.10 -119.12 2
50 gsr Gross Reservoir, CO	ASCOT 39.95 -105.36 2280
51 tld Tolland, CO	ASCOT 39.91 -105.59 2703
52 tow BAO Erie, CO	ASCOT 40.10 -105.00 1573
25 hes Hesperia, CA	SCT 34.39 -117.41 1166
28 sbo San Bernardino, CA	SCT 34.18 -117.39 514
48 ant Antarctic	SOS 90.00 -0.00 2835
49 edw Edwards Air Force Base	EDW 90.00 -0.00 2835
34 arc LeadEx ice camp	LeadEx 72.90 -145.00 0
24 bar Barstow, CA	SCT 34.85 -117.13 710
27 pal Palmdale, CA	SCT 34.59 -118.04 787
29 sdo San Diego, CA	SCT 34.97 -117.16 111
38 elc El Cajon, CA	SCT 32.82 -116.99 183
23 ban Banning, CA	SCT 33.92 -116.90 730
26 moj Mojave, CA	SCT 35.06 -118.15 836
30 wwr White Water, CA	SCT 33.90 -116.68 360
35 ble Bledsoe Sta, GA	SOS 33.17 -84.33 270
37 cov Covington, GA	SOS 33.63 -83.85 242
36 bow Bowen Plang, GA	SOS 34.28 -84.92 219
31 roc Rcoky Flats, CO	FRAQS 39.89 -105.22 1850

G-B2. SAMPLE SITEMET.DAT FILE

[Data line contents: site number; site abbreviation; site description; latitude; longitude; elevation (m); number of met instruments; name of each met instrument]

30 tld TOLLAND, CO ASC 00.00 000.00 000 6 PRESSURE TEMPERATURE WIND_SPEED WIND_DIREC RH BATTERY

27 edw EDWARDS, CA SCT 00.00 000.00 000 6 TEMPERATURE PRESSURE WIND_SPEED WIND_DIREC RH BATTERY

25 ptl POINT LOMA, CA SCT 00.00 000.00 000 10 TEMPERATURE PRESSURE WIND_SPEED WIND_DIREC SOLAR_RAD NET_RAD RH BATTERY WIND_SPEED2 WIND_DIREC2

26 sci SACRAM ISL, CA SCT 00.00 000.00 000 10 TEMPERATURE PRESSURE WIND_SPEED SPEED_VECTOR WIND_DIREC SIGMA_THETA SOLAR_RAD NET_RAD RH BATTERY

24 ptm POINT MUGU, CA SCT 00.00 000.00 000 8 TEMPERATURE PRESSURE WIND_SPEED WIND_DIREC SOLAR_RAD NET_RAD RH BATTERY

7 baw BAW (WIND) BAO 00.00 000.00 0000 13 WIND_SPEED_22M WIND_DIREC_22M WIND_SPEED_50M WIND_DIREC_50M WIND_SPEED_100M WIND_DIREC_100M WIND_SPEED_150M WIND_DIREC_150M WIND_SPEED_200M WIND_DIREC_200M WIND_SPEED_250M WIND_DIREC_250M BATTERY

6 bat BAO (TEMPERATURE) BAO 00.00 000.00 0000 13 PRESSURE TEMP_50M TEMP_100M TEMP_150M TEMP_200M TEMP_250M DEW_PT_50M DEW_PT_100M DEW_PT_150M DEW_PT_200M DEW_PT_250M BATTERY NOTHING

G-B3. SAMPLE MET FILE

[Data line contents: the first variable is time and the following variables are each met instrument.]

17.0000	24.280	615.500	6.326	6.269	73.300	7.660	80.600	-124.900	31.580	14.040
17.0167	24.260	615.500	6.193	6.167	74.300	5.173	83.600	-123.800	31.460	14.040
17.0333	24.250	615.500	5.860	5.841	75.700	4.683	85.600	-123.100	31.500	14.040
17.0500	24.380	615.600	5.009	4.906	89.000	11.610	87.900	-122.000	31.860	14.040
17.0667	24.450	615.600	5.062	5.015	80.000	7.780	89.200	-120.100	31.850	14.040
17.0833	24.420	615.600	5.554	5.437	79.400	11.760	91.800	-117.000	32.090	14.030
17.1000	24.400	615.600	4.942	4.905	80.300	7.000	95.100	-113.800	32.170	14.030
17.1167	24.520	615.600	0.985	0.962	69.830	12.260	94.700	-114.800	32.490	14.030
17.1333	24.400	615.600	0.992	0.978	73.600	9.690	96.000	-112.800	31.360	14.030
17.1500	24.380	615.600	0.983	0.696	103.200	43.770	96.700	-115.200	31.860	14.030
17.1667	24.350	615.500	1.006	1.006	172.300	0.304	92.500	-117.600	31.000	14.020
17.1833	24.360	615.600	1.055	1.055	172.000	0.247	95.400	-112.200	30.770	14.020
17.2000	24.390	615.600	1.042	1.042	172.100	0.128	96.600	-111.100	30.230	14.020
17.2167	24.470	615.400	1.210	1.210	171.400	0.376	97.000	-111.200	27.770	14.020
17.2333	24.420	615.500	1.077	1.077	171.600	0.093	94.000	-109.700	27.200	14.010

G-B4. SAMPLE CONSENSUS WIND FILE

[Data line contents: height (m); wind speed; direction; radial velocity beam 1, beam 2; vertical velocity; number of points in the consensus for beam 1, 2, 3; signal-to-noise ratio for beam 1, 2, 3]

```
PTM
 34.10  119.12      2
 93 11 01 16 05 27   0
 54
 32 32 32   16 16 16   2.0 2.0 1.0
 160 160 25 25 700 700 50 50
 10.2  10.2  1  2000 2000 50 50 700 700
 5 75   266 75
 0.152    3.5  148    -0.63   -0.33    0.10  22 22 21   12   13   19
 0.254 9999.0 9999    -0.50    0.10    0.12  15 19 19   11    7   14
 0.355    3.3  153    -0.61   -0.21    0.13  21 24 22   13   13   20
 0.456    1.9  153    -0.36   -0.13    0.06  20 26 24   16    9   14
 0.558    2.7  149    -0.45   -0.21    0.11  27 28 28   18   12   13
 0.659    1.2   97     0.08   -0.23    0.09  29 30 28   12   15   14
 0.761    0.9    4     0.30    0.03    0.07  28 31 27   18   20    8
 0.862    1.3    1     0.45    0.09    0.12  29 30 26    1    9    6
 0.964    1.2  327     0.32    0.22    0.08  31 31 27    9    5    7
 1.065    0.9  357     0.30    0.06    0.07  29 32 29    5    3    0
 1.166    2.8   78     0.40   -0.53    0.20  29 30 26    2   -4   -4
 1.268    5.6   67     0.68   -1.36    0.20  23 23 14    1   -2   -3
 1.369    9.3   32     1.97   -1.61   -0.19  16 20 18   -3   -6  -10
 1.471    8.4   46     1.59   -1.73   -0.07  20 28 23   -6   -8   -7
 1.572    6.8   56     1.11   -1.52    0.01  23 30 28   -7   -8   -6
 1.673    7.7   56     1.36   -1.61    0.10  27 31 28  -10   -9   -8
 1.775    8.0   59     1.34   -1.74    0.12  27 31 23  -12   -9   -8
 1.876    8.8   55     1.58   -1.84    0.13  24 30 25  -12   -8   -8
 1.978    9.0   62     1.51   -1.90    0.25  28 32 27  -11   -8   -7
 2.079    9.4   53     1.57   -2.12   -0.08  22 30 17  -10   -8   -7
 2.181 9999.0 9999     1.62   -2.31   -0.13  11 23  8  -13  -11  -14
 2.282 9999.0 9999    -9.02   -2.41    5.49   7 12  5  -18  -14  -16
 2.383 9999.0 9999    -4.31   -2.29   -1.01   9 10  5  -17  -16  -16
 2.485 9999.0 9999     1.84   -1.71   -0.28   9 12  7  -17  -15  -15
 2.586 9999.0 9999    -9.56   -1.39    0.05   7 22 19  -16  -14  -12
 2.688    5.5   49     1.02   -1.13    0.08  16 27 12  -14  -11  -14
 2.789 9999.0 9999     1.02   -0.83    0.02  10 24 21  -13  -13  -13
 2.891    4.5   39     1.09   -0.69    0.11  21 30 21  -14  -12   -8
 2.992    4.3   25     1.09   -0.49    0.05  22 29 24  -12   -9  -11
 3.093    4.4   28     1.13   -0.52    0.09  23 30 24  -13  -11  -11
```

```
 3.195    4.6   19     1.17   -0.46    0.02  19 23 16  -14   -6   -9
 3.296    5.3   20     1.27   -0.60   -0.05  17 23 30  -14   -9   -4
 3.398    6.0   17     1.51   -0.54   -0.00  28 29 31   -9   29    4
 3.499    6.7   14     1.72   -0.54    0.00  28 31 14   -2   23   -1
 3.600 9999.0 9999     1.86   -0.65   -0.02  15 27 19   -5    8  -12
 3.702    6.8   19     1.71   -0.69   -0.94  20 27  5   -7   -8  -18
 3.803 9999.0 9999     1.89   -0.77    6.89  14 15  6  -14  -12  -18
 3.905 9999.0 9999     2.36   -1.46   -9.40   9  7  5  -13  -16  -16
 4.006 9999.0 9999     2.54    0.77   -6.06   8  9  5  -16  -16  -14
 4.108 9999.0 9999     8.91    5.07    3.44   7  8  6  -17  -16  -17
 4.209 9999.0 9999     7.53   -3.67    3.47   9  6  4  -16  -17  -16
 4.310 9999.0 9999    -3.28   -7.58    7.60   9  7  4  -15  -17  -18
 4.412 9999.0 9999    -5.62    9.22    1.65  11  8  5  -16  -15  -18
 4.513 9999.0 9999     1.97   -5.86   -2.23   8  6  5  -17  -15  -17
 4.615 9999.0 9999    -3.76    6.95    3.29   8  7  8  -17  -16  -16
 4.716 9999.0 9999     3.16    9.10   -7.02   7  7  6  -16  -16  -17
 4.818 9999.0 9999    -1.49    4.86    7.87   7  7  4  -18  -16  -18
 4.919 9999.0 9999    -7.52    3.89    1.68   6  8  6  -18  -18  -17
 5.020 9999.0 9999    -6.59   -5.11   -7.91   7  7  4  -17  -17  -16
 5.122 9999.0 9999    -2.98    1.85    4.19   7  6  5  -18  -16  -18
<newline>
 PTM
 34.10  119.12      2
 93 11 01 16 05 27   0
 54
 32 32 32   16 16 16   2.0 2.0 1.0
 320 320 25 25 400 400 25 25
 10.2  10.2  1  2000 2000 30 30 400 400
 5 75   266 75
 0.167 9999.0 9999    -0.26   -0.50   -0.07  14 21 17   15    6    3
 0.225 9999.0 9999     1.43    0.23    0.07  13 17 12   18    7    4
 0.283 9999.0 9999    -0.26   -0.50   -0.08  14 21 17   15    7    3
 0.340    1.8  136    -0.24   -0.24    0.07  20 19 18   18    6    5
 0.398    2.1  180    -0.58    0.00   -0.04  24 25 24    4   14   10
 0.456    3.0  151    -0.58   -0.27    0.06  26 25 23    3    5    4
 0.514    2.4  156    -0.46   -0.14    0.08  24 26 28    6    5    7
 0.572    2.6  153    -0.52   -0.22    0.05  30 29 26   11   10   10
 0.630    1.1  125    -0.15   -0.23   -0.00  30 30 30    5    8    7
 0.688    1.2   36     0.26   -0.22   -0.01  29 31 29    5    9    6
 0.746    0.8   62     0.24   -0.05    0.14  28 30 25   -3    8    1
 0.804    1.7  308     0.28    0.37    0.05  30 28 24   -7    2    3
 0.862    1.1  349     0.37    0.13    0.11  29 31 28    9    2    2
 0.920    1.8  349     0.42    0.03   -0.03  30 31 26   -4   -1    6
 0.978    2.3  309     0.36    0.47    0.04  32 32 29   -2    3    3
```

1.036	1.3	341	0.40	0.18	0.09	31	28	28	7	2	-2
1.094	3.2	67	0.57	-0.60	0.18	32	28	27	-1	-4	-8
1.152	4.1	74	0.39	-1.04	0.06	31	30	12	-1	-9	-9
1.210	9999.0	9999	0.21	-1.71	0.05	28	14	12	-2	-11	-10
1.268	9999.0	9999	0.85	-2.25	0.66	14	13	8	-9	1	-5
1.326	9999.0	9999	-0.37	-1.55	0.10	11	15	11	-11	-9	-7
1.384	9999.0	9999	2.61	-2.22	1.00	12	12	7	-12	-12	-9
1.442	9999.0	9999	2.04	-1.52	0.09	9	15	17	-10	-14	-8
1.500	9999.0	9999	1.30	-1.54	0.08	12	25	21	-12	-9	-6
1.558	9.1	39	1.87	-1.69	-0.08	20	27	19	-8	-10	-11
1.616	9999.0	9999	1.67	-1.72	0.16	11	27	17	-14	-12	-12
1.673	9999.0	9999	1.64	-1.64	0.09	12	26	20	-14	-12	-12
1.731	9999.0	9999	1.31	-1.68	0.09	11	28	20	-15	-8	-11
1.789	8.9	64	1.59	-1.72	0.42	18	26	20	-14	-11	-9
1.847	9999.0	9999	1.17	-1.75	0.04	11	23	18	-14	-12	-12

<newline>

G-B5. SAMPLE CONSENSUS TEMPERATURE FILE

[Data line contents: height (m, msl); temperature in °C; number of points that passed the consensus]

```
PTM
 34.10  119.12      2
 93 11 01 17 00 57   0
  4
 11 6 2.0
 8 25 700 25
409.6  1 2200 15 700
 0.188   17.2 11
 0.292   16.4 11
 0.398   15.5 11
 0.502   14.7 11
 0.608   15.0 11
 0.712   16.4 11
 0.817   17.0 11
 0.923   17.0 11
 1.028   16.8 11
 1.133   17.2 11
 1.237   17.7 11
 1.342   17.4 10
 1.447 9999.0  4
 1.553 9999.0  4
 1.658 9999.0  5
```

G-B6. SAMPLE WEBER/WUERTZ EDITED WIND FILE

[Data line contents: height (km, agl); wind speed; direction; radial velocity beam 1, beam 2; vertical velocity; number of points in the consensus for beam 1, 2, 3; signal-to-noise ratio for beam 1, 2, 3]

```
<newline>
 ptl
  3470   11725     20
 92 11  1  1  0  0   0
 54
  19  19  19  10  10  10    5.00000    5.00000    5.00000
  320  320  50  50  700  700  25  25
 10.2 10.2   1 152 158 25 25 101 105
  36 75 304 75
  0.172    8.7  341   -2.85    8.26   -0.33  19  19  19   15   24   10
  0.273    9.7  337   -3.84    8.87   -0.34  19  19  19   16   25   11
  0.374   10.6  331   -5.08    9.35   -0.42  19  19  19   14   22   13
  0.475   10.6  323   -6.43    8.40   -0.37  19  19  19   18   21   15
  0.576   10.1  322   -6.19    7.93   -0.45  19  19  19   10   16    7
  0.677    8.6  318   -5.71    6.42   -0.57  19  19  19    3   11   -1
  0.778    8.9  333   -4.03    7.89   -0.29  19  19  19   -5    6   -9
  0.879    7.2  334   -3.14    6.49   -0.29  19  19  19   -6    3  -11
  0.980    8.0  334   -3.46    7.22    0.08  19  19  19   -8    0  -12
  1.081    6.1  345   -1.59    5.91    0.08  19  19  19   -7   -4  -10
  1.182    3.3    5    0.31    3.33    0.04  19  19  19   -6   -6   -7
  1.283    1.7   49    1.25    1.10    0.09  19  19  19   -4   -4   -6
  1.384    2.1   63    1.88    0.94    0.09  19  19  19   -6   -6   -9
  1.485    3.4   77    3.28    0.79    0.15  19  19  19   -3   -7   -2
  1.586    4.1   74    3.94    1.12    0.16  19  19  19    2    0    0
  1.687    4.3   66    3.92    1.72    0.18  19  19  19    0   -3   -3
  1.788    4.5   62    3.98    2.13    0.13  19  19  19   -3   -5   -5
  1.889    4.7   58    3.97    2.52    0.11  19  19  19   -3   -6   -7
  1.990    5.1   54    4.16    3.00    0.08  19  19  19   -6   -8   -8
  2.091    6.6   34    3.68    5.51    0.20  19  19  19   -7   -9   -7
  2.192    7.5   11    1.39    7.42    0.37  19  19  19  -10  -11  -14
  2.293    7.2    4    0.47    7.14    0.67  15  15  15  -18  -17  -19
  2.394    6.9    8    0.94    6.86    0.32  12  12  12  -18  -15  -15
  2.495    8.3   13    1.85    8.05    0.60   4   4   4  -17   -5   -8
  2.596    9.1    1    0.16    9.07    0.64  12  12  12  -18  -11  -13
<newline>
 ptl
  3470   11725     20
 92 11  1  1  0  0   0
```

54
19 19 19 10 10 10 5.00000 5.00000 5.00000
160 160 50 50 2800 2800 50 50
10.2 10.2 1 130 135 25 25 203 210
36 75 304 75

0.150	11.4	327	-6.14	9.60	-0.37	19	19	19	13	20	13
0.353	12.2	323	-7.29	9.73	-0.40	19	19	19	18	23	18
0.556	11.4	320	-7.32	8.74	-0.46	19	19	19	15	22	15
0.759	10.2	319	-6.73	7.62	-0.51	19	19	19	10	18	9
0.962	9.7	319	-6.31	7.34	-0.37	19	19	19	5	12	4
1.165	7.1	324	-4.14	5.72	0.02	19	19	19	3	7	2
1.368	3.4	4	0.24	3.40	0.18	19	19	19	5	5	4
1.571	3.8	59	3.29	2.00	0.22	19	19	19	7	5	5
1.774	4.3	63	3.79	1.95	0.16	19	19	19	6	4	3
1.977	4.8	52	3.73	2.94	0.13	19	19	19	3	1	0
2.180	5.0	37	3.01	4.04	0.10	19	19	19	-1	-3	-3
2.383	5.1	20	1.75	4.80	-0.05	19	19	19	-7	-6	-8
2.586	6.9	3	0.35	6.92	0.08	19	19	19	-13	-11	-11
2.789	6.9	356	-0.45	6.88	-0.01	19	19	19	-16	-13	-12
2.992	6.9	5	0.64	6.82	-0.27	17	17	17	-17	-13	-12
3.195	5.6	355	-0.46	5.63	-0.40	19	19	19	-15	-14	-14
3.398	9.3	358	-0.35	9.29	0.02	14	14	14	-13	-12	-10
3.601	6.9	349	-1.37	6.80	-0.38	11	11	11	-11	-13	-13
3.804	6.5	9	0.98	6.38	-0.30	6	6	6	-10	-12	-11
4.007	8.0	7	1.02	7.98	0.52	2	2	2	3	-6	-1
4.210	9.6	17	2.77	9.22	-0.14	4	4	4	-10	-16	-15
4.413	-940.0	-940	940.00	940.00	0.61	2	2	2	-7	-15	-16
4.616	-940.0	-940	950.00	950.00	950.00	0	0	0	-950	-950	-950
4.819	-940.0	-940	950.00	950.00	950.00	0	0	0	-950	-950	-950
5.022	-940.0	-940	950.00	950.00	950.00	0	0	0	-950	-950	-950

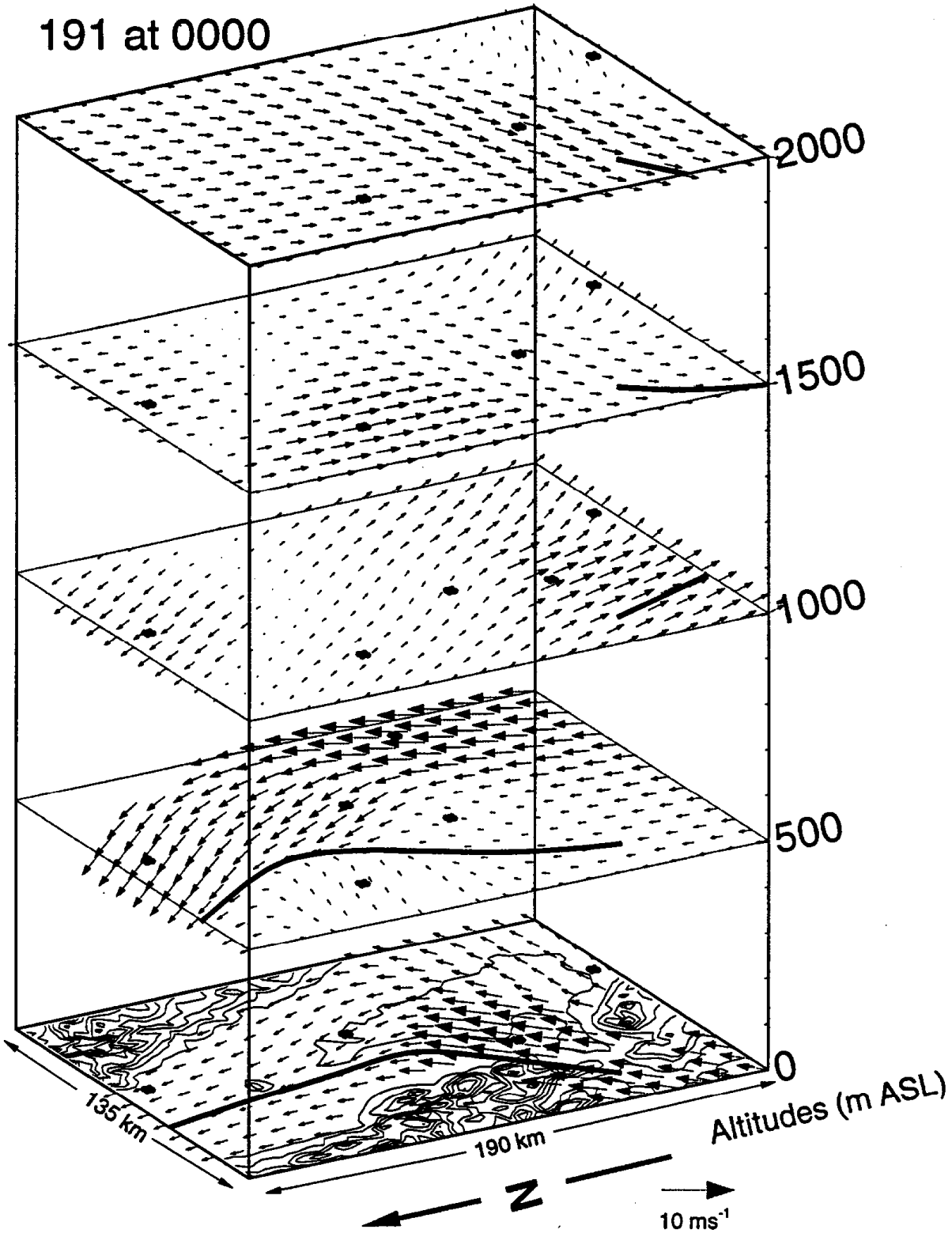
G-B7. SAMPLE WEBER/WUERTZ EDITED TEMPERATURE FILE

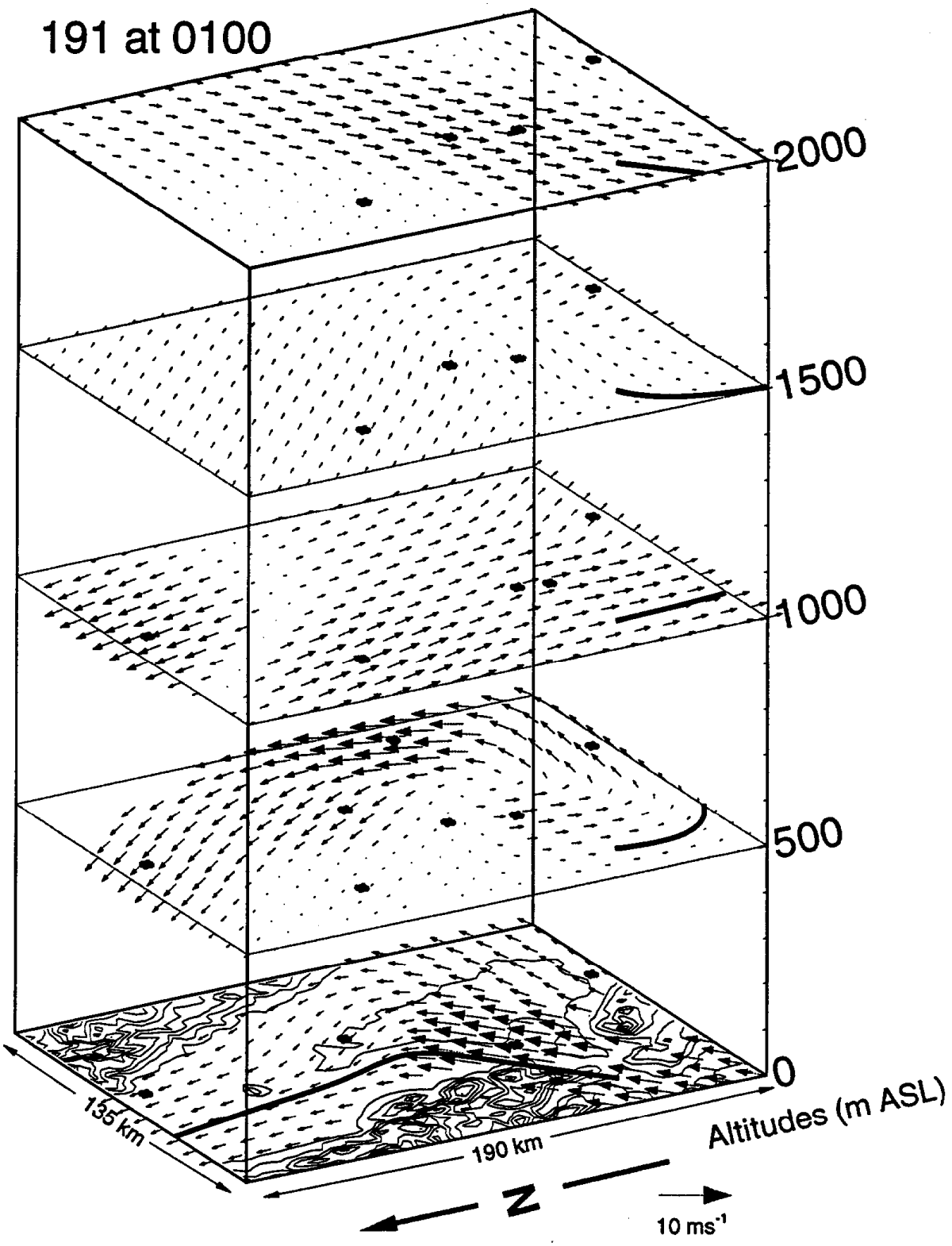
[Data line contents: height (km); virtual temperature in °C with no vertical correction applied; with acoustic and vertical beams averaged and then vertical correction applied; with the acoustic beam simultaneously corrected with the vertical beam and then averaged, acoustic beam (speed of sound); snr of acoustic beam; snr of the vertical beam; number of points that went into the acoustic beam; number of points that went into the vertical velocity average; quality control for the acoustic beam; quality control number of the vertical velocity column; and quality control number for the simultaneous corrected acoustic column]

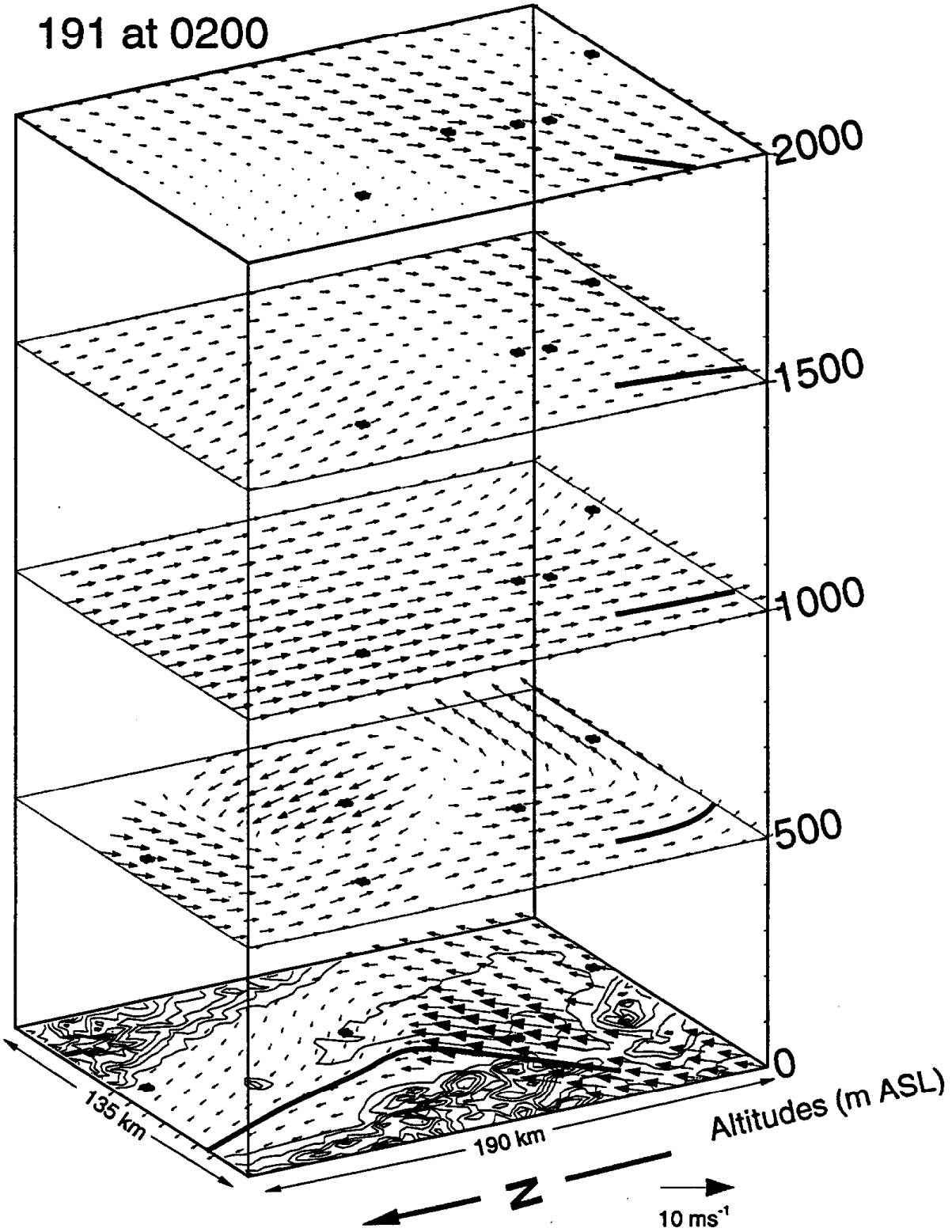
```
sdo                          3297   11716    111
92  6  3  1 59 59   60 11 14
 0.299   18.63   18.64   18.68 -342.44   0.01   -1.00    3.55 11  9   0   0   0
 0.374   18.13   18.17   18.23 -342.15   0.03    3.67    1.47 11  9   0   0   0
 0.449   17.95   18.08   18.09 -342.04   0.08    3.29    7.64 11 10   0   0   0
 0.524   19.14   19.23   19.23 -342.74   0.05    0.31    9.01 11 10   0   0   0
 0.599   21.57   21.59   21.56 -344.16   0.01   -3.67    2.57 11 10   0   0   0
 0.674   22.79   22.65   22.63 -344.87  -0.08   -7.14   -2.92 11 10   0   0   0
 0.749   23.27   23.15   23.15 -345.15  -0.07  -10.26   -1.18 11 11   0   0   0
 0.824   23.70   23.53   23.53 -345.40  -0.10  -13.25   -4.41 11 11   0   0   0
 0.899   24.11   24.05   24.05 -345.64  -0.04  -16.68   -8.36 11 11   0   0   0
 0.974   24.14   24.11   24.13 -345.66  -0.01  -19.82   -6.23 11  8   0   0   0
 1.049   24.01   23.78   23.83 -345.58  -0.13  -23.64   -7.92 11  8   0   0   0
 1.124   23.94   23.57   23.70 -345.54  -0.21  -27.06  -13.62 11  7   0   0   0
 1.199   23.37   23.17   23.34 -345.21  -0.11  -30.70  -16.23  8  7   0   0   0
 1.274   23.87   23.32   21.82 -345.50  -0.32  -32.97  -15.27  6  7   0   0   0
```

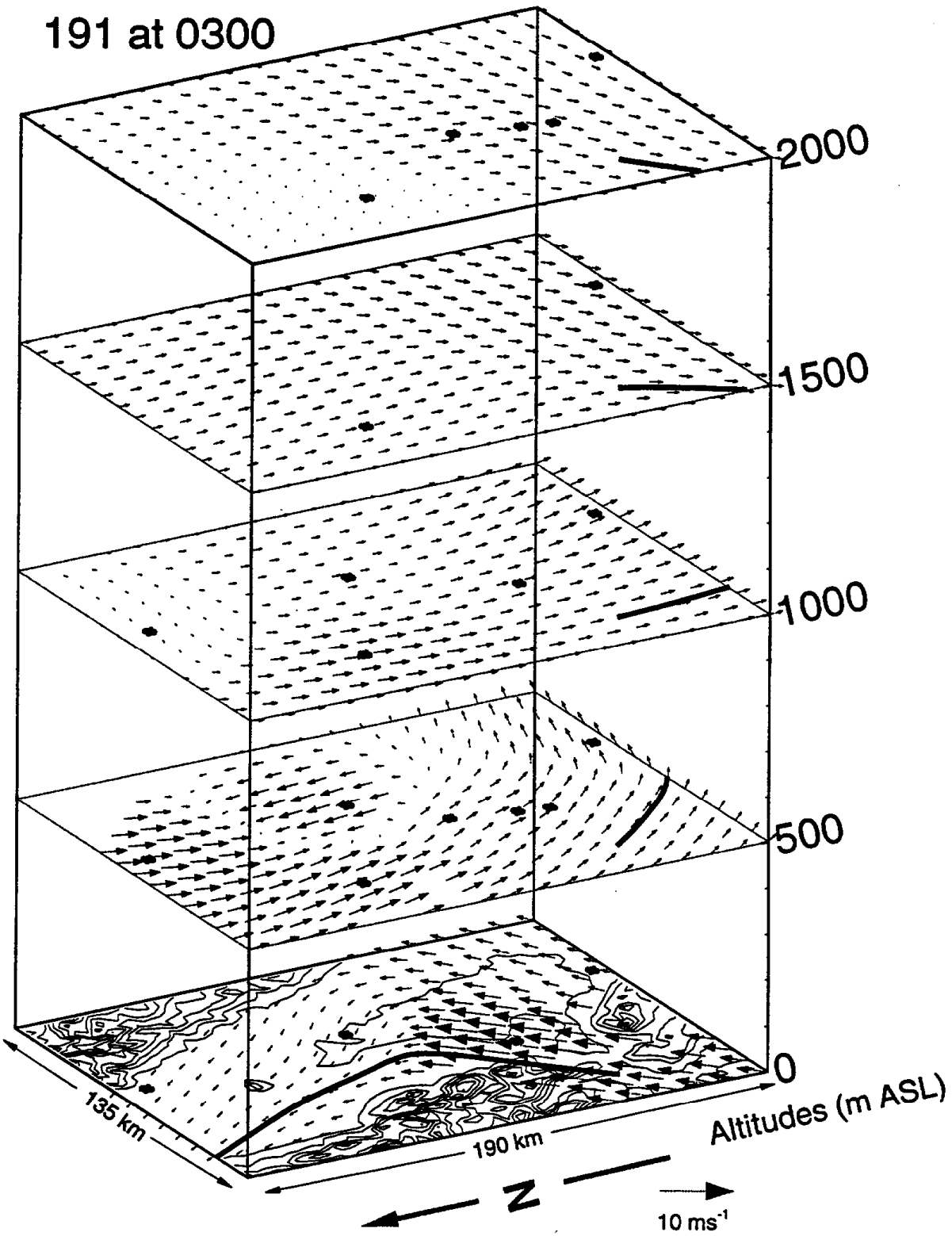
APPENDIX H

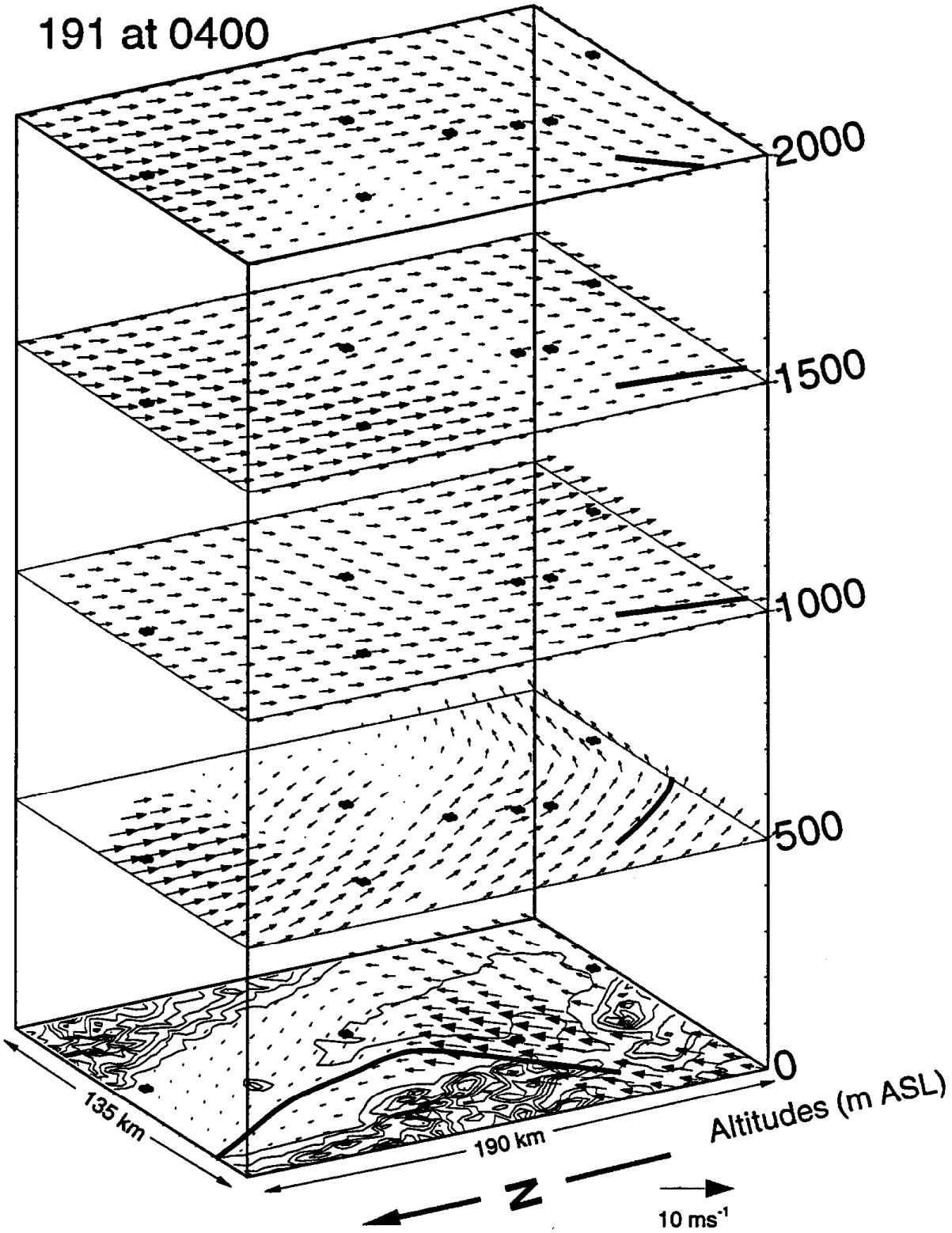
Hourly Interpolated Northern California Transport Wind Fields
For 10 July 1991 (Julian Day 191): A Typical Ridge Case

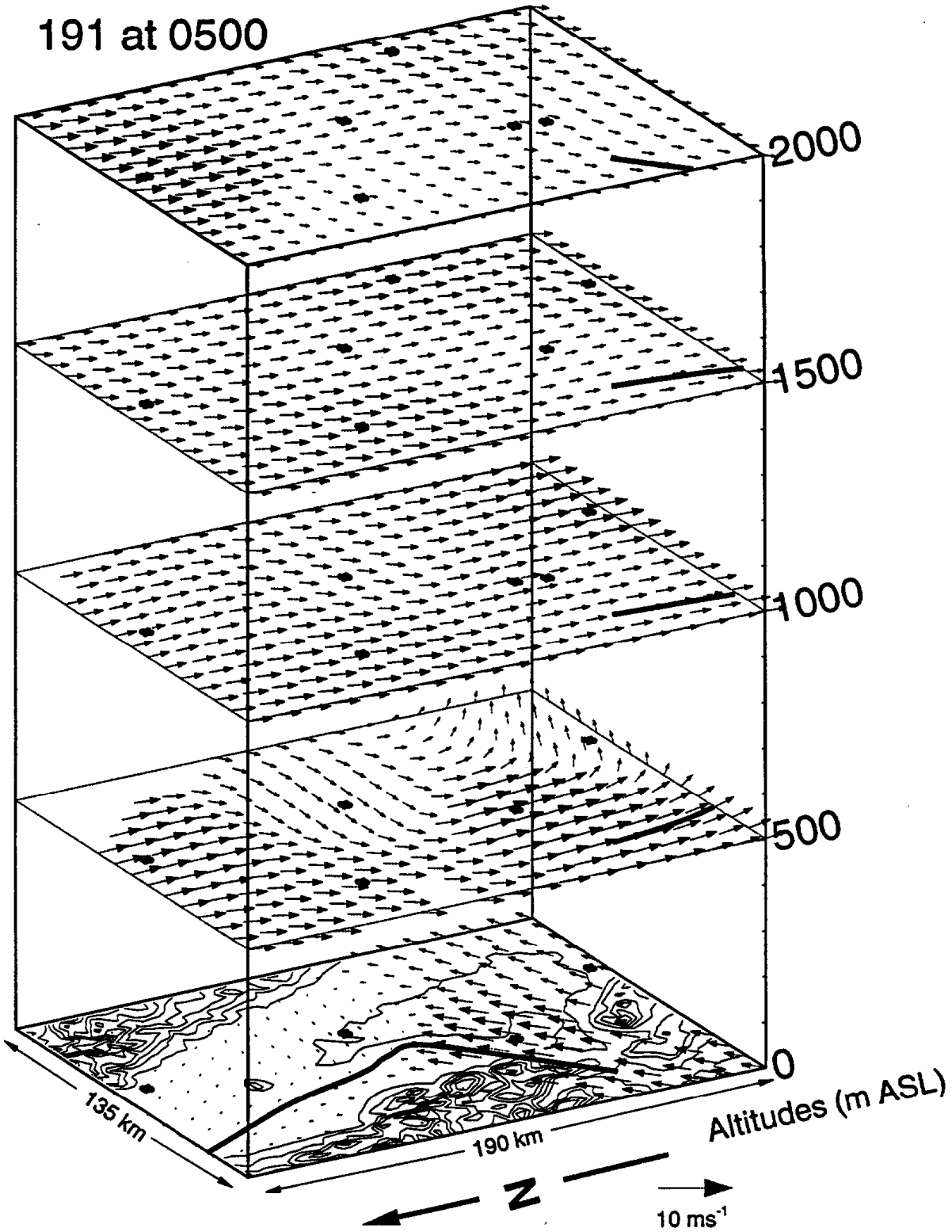

191 at 0000
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

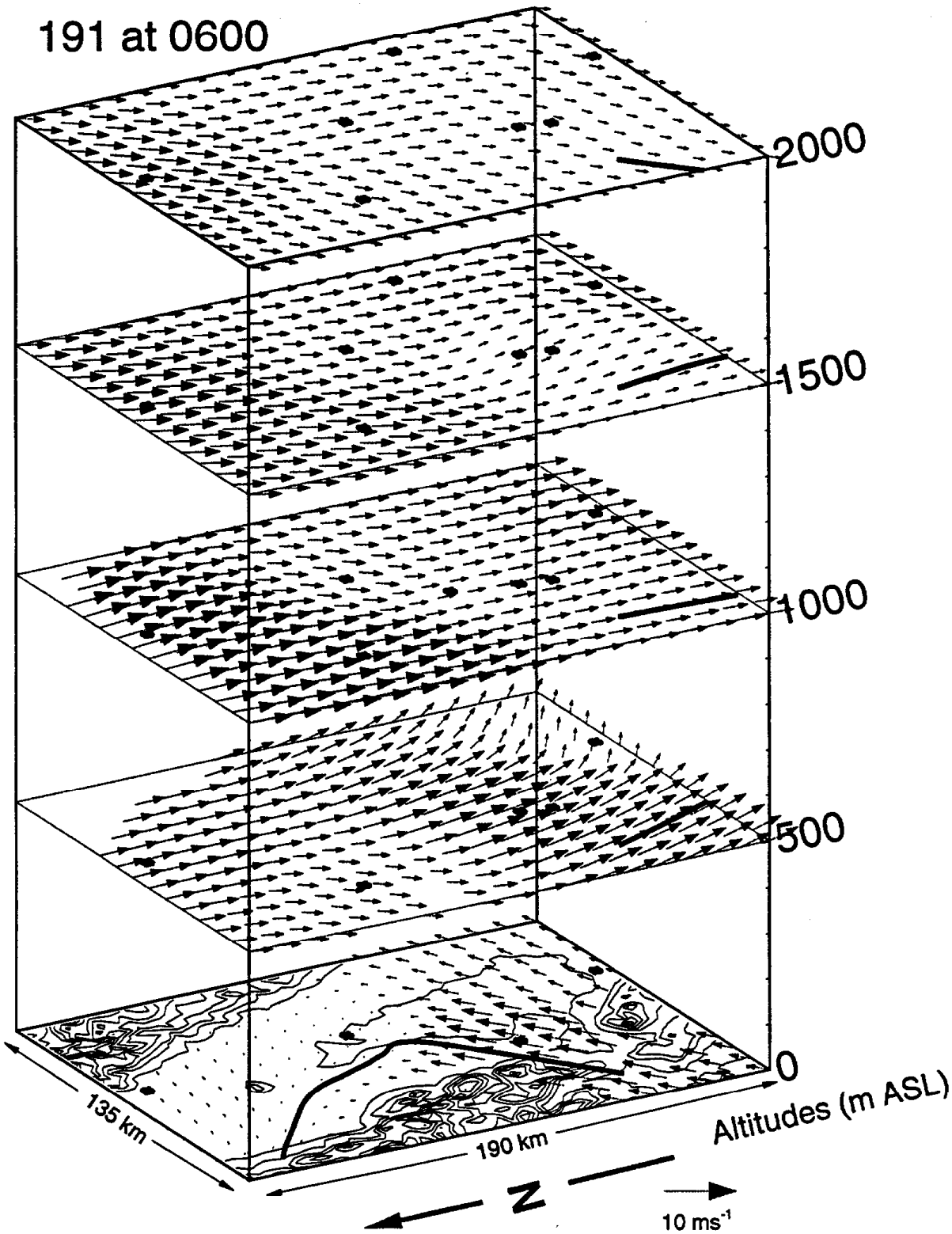

191 at 0100
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

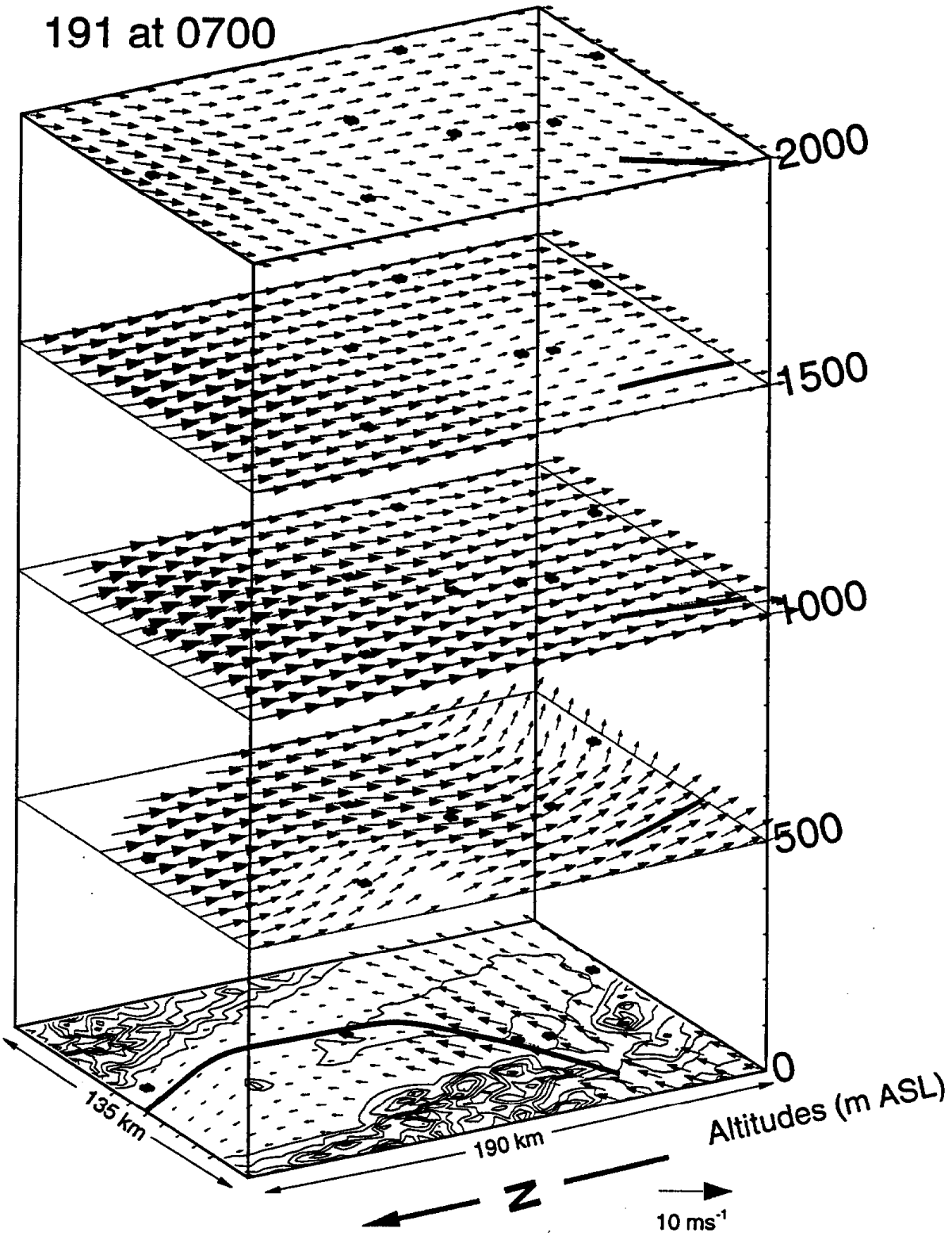

191 at 0200
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

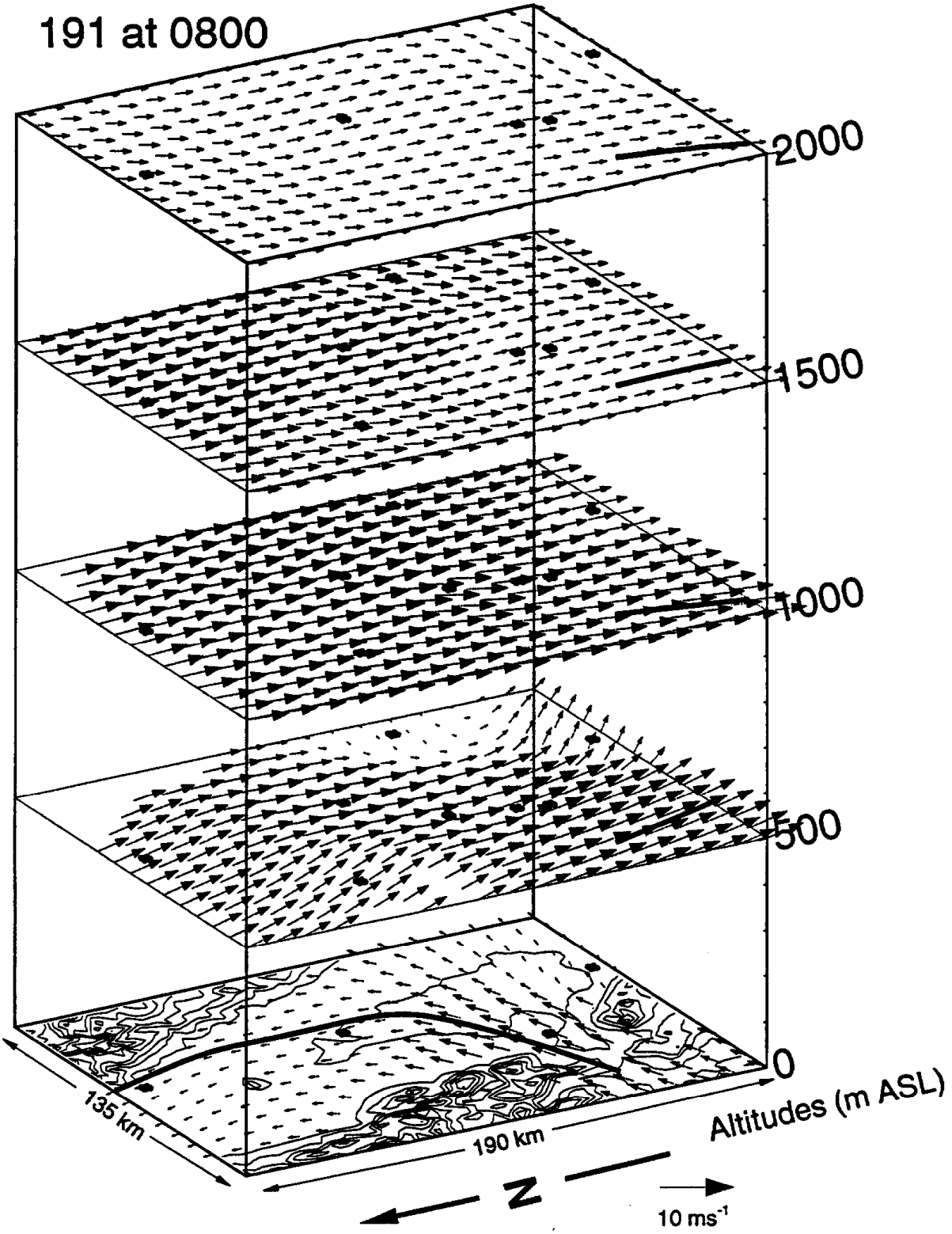

191 at 0300
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

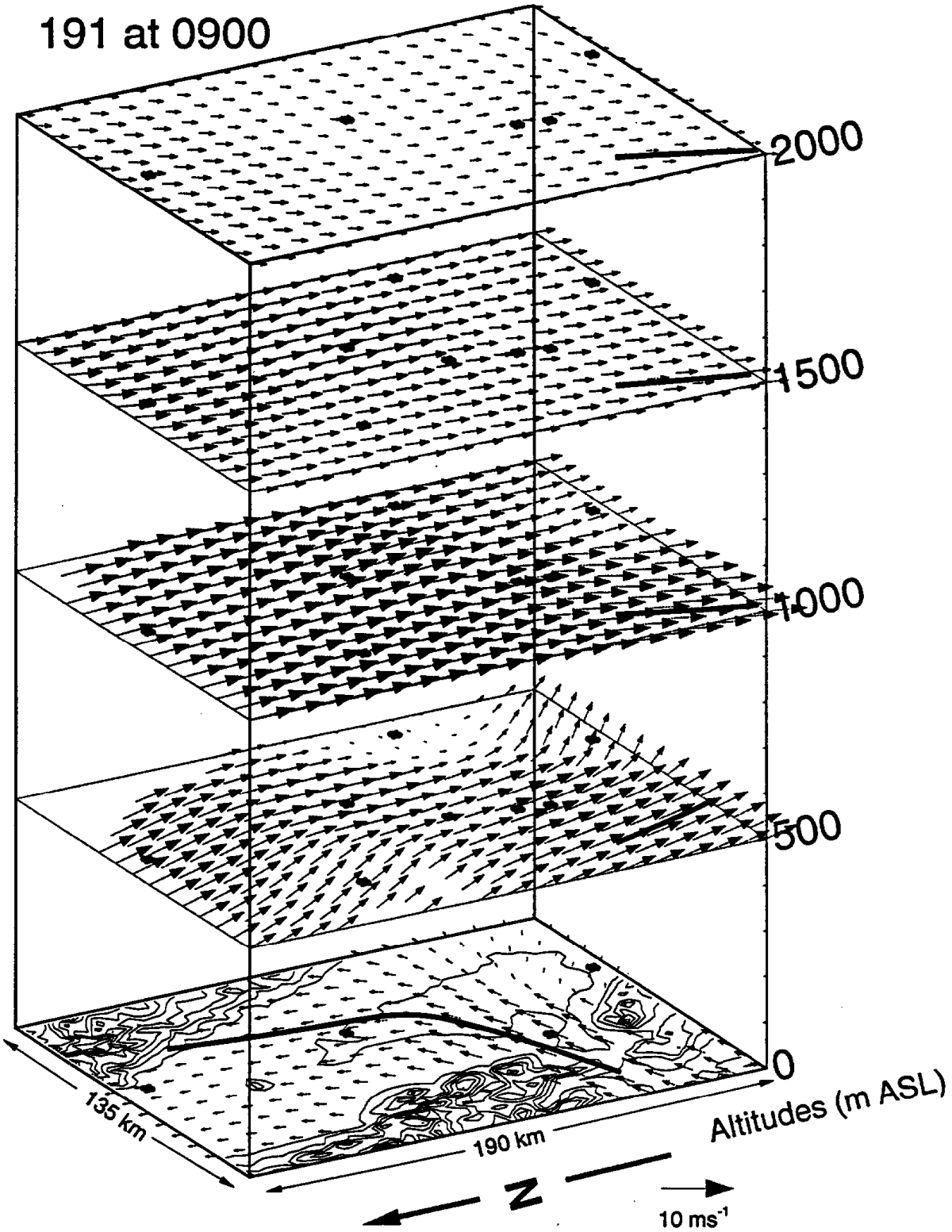

191 at 0400
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

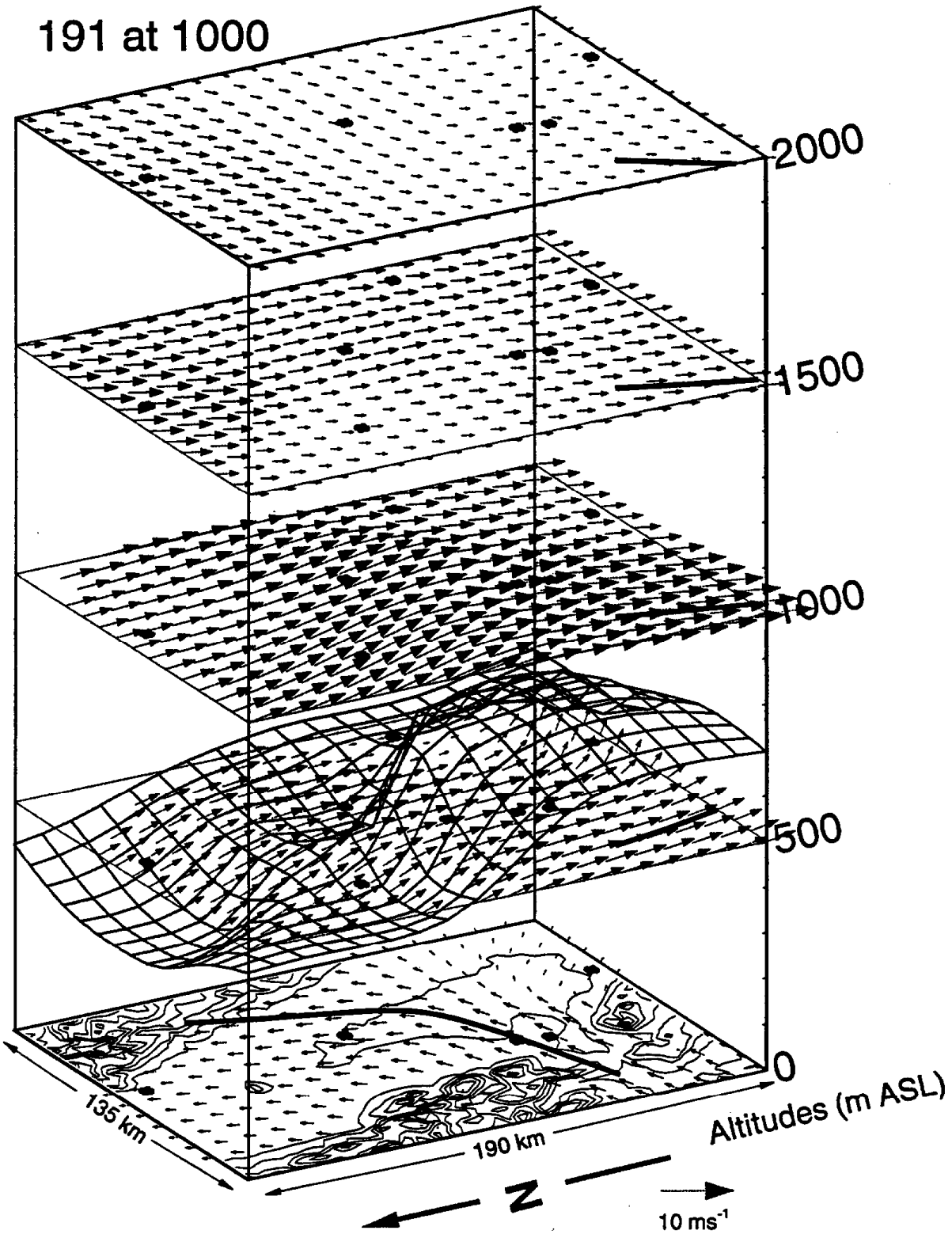

191 at 0500
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

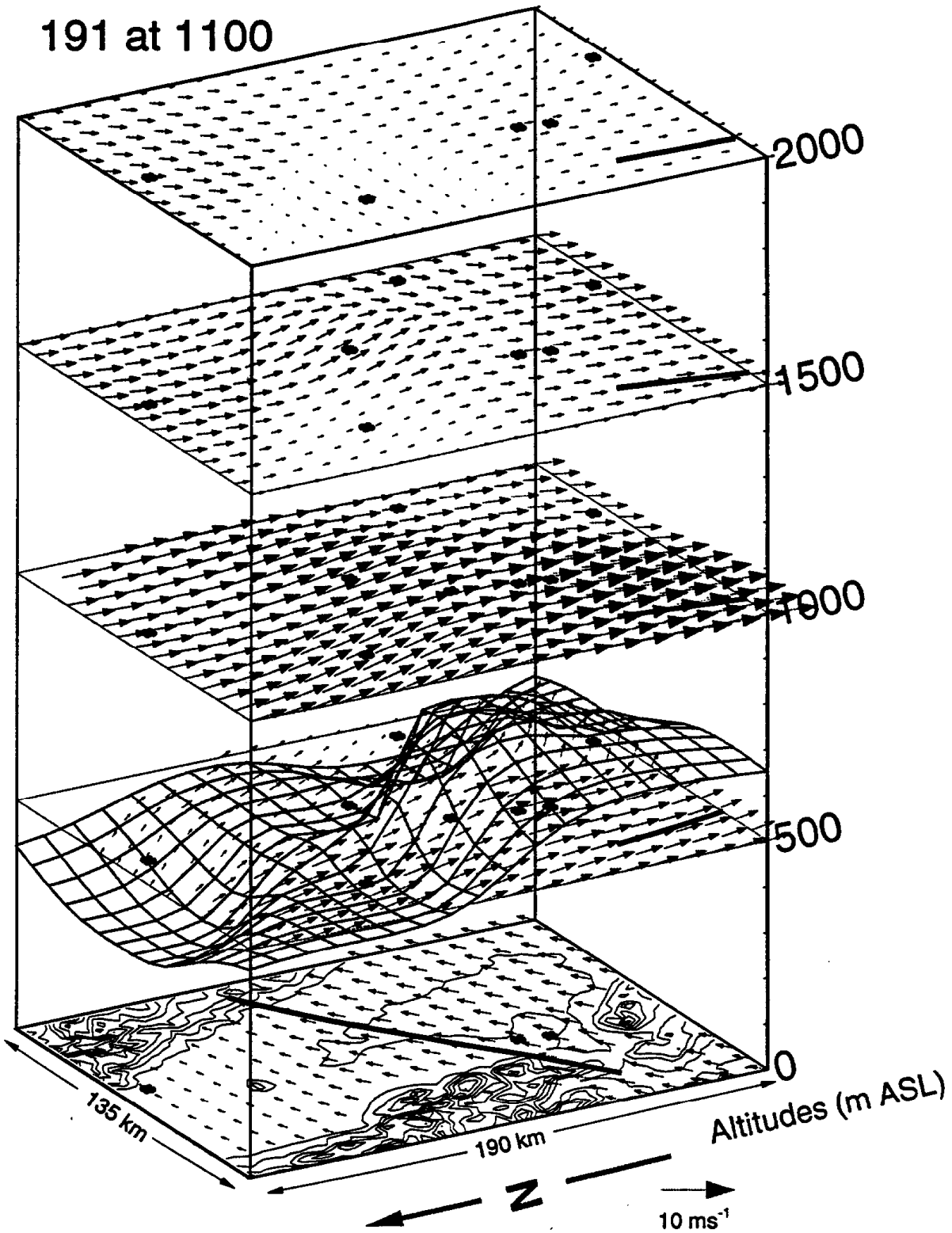

191 at 0600
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

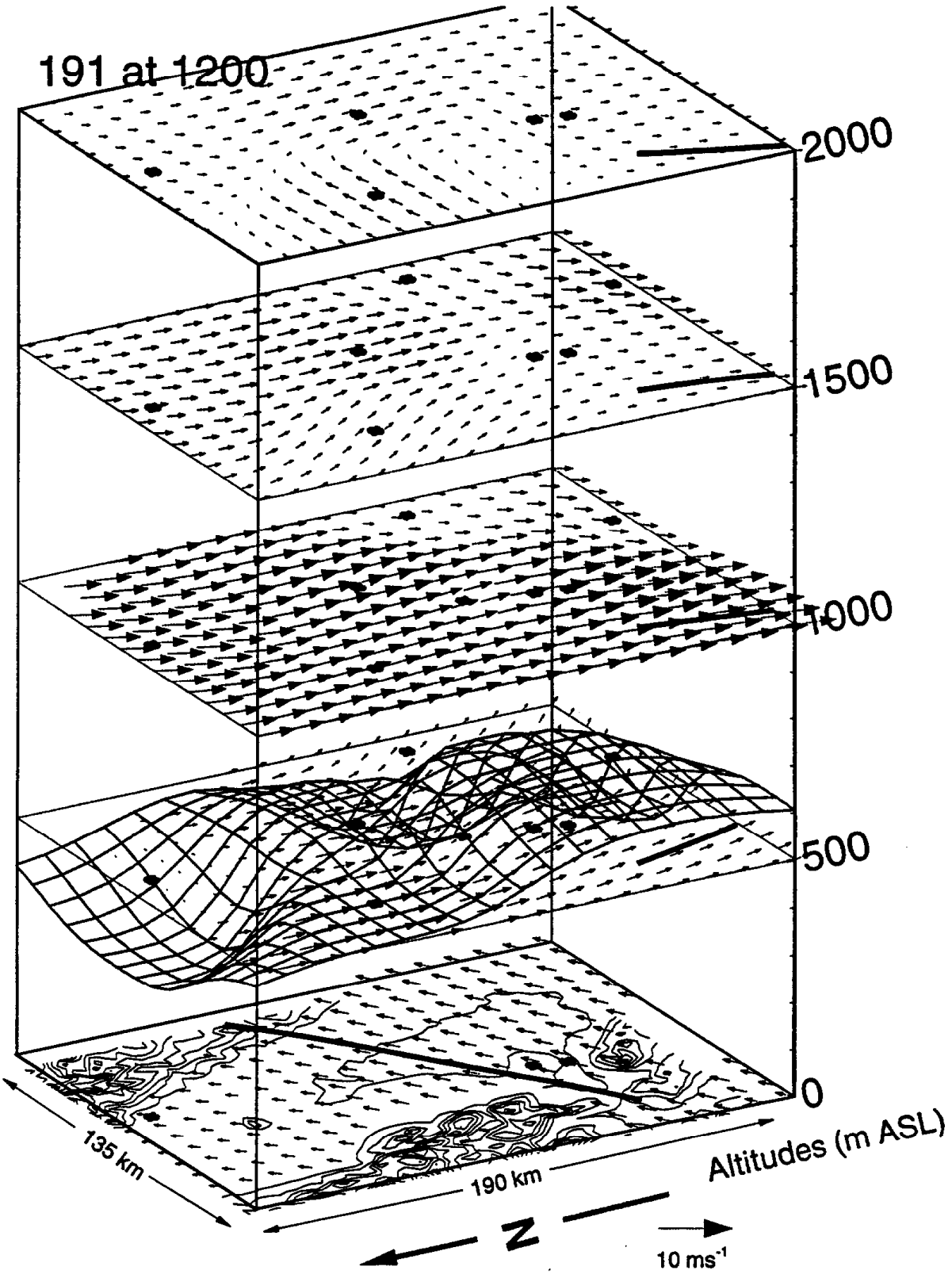

191 at 0700
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

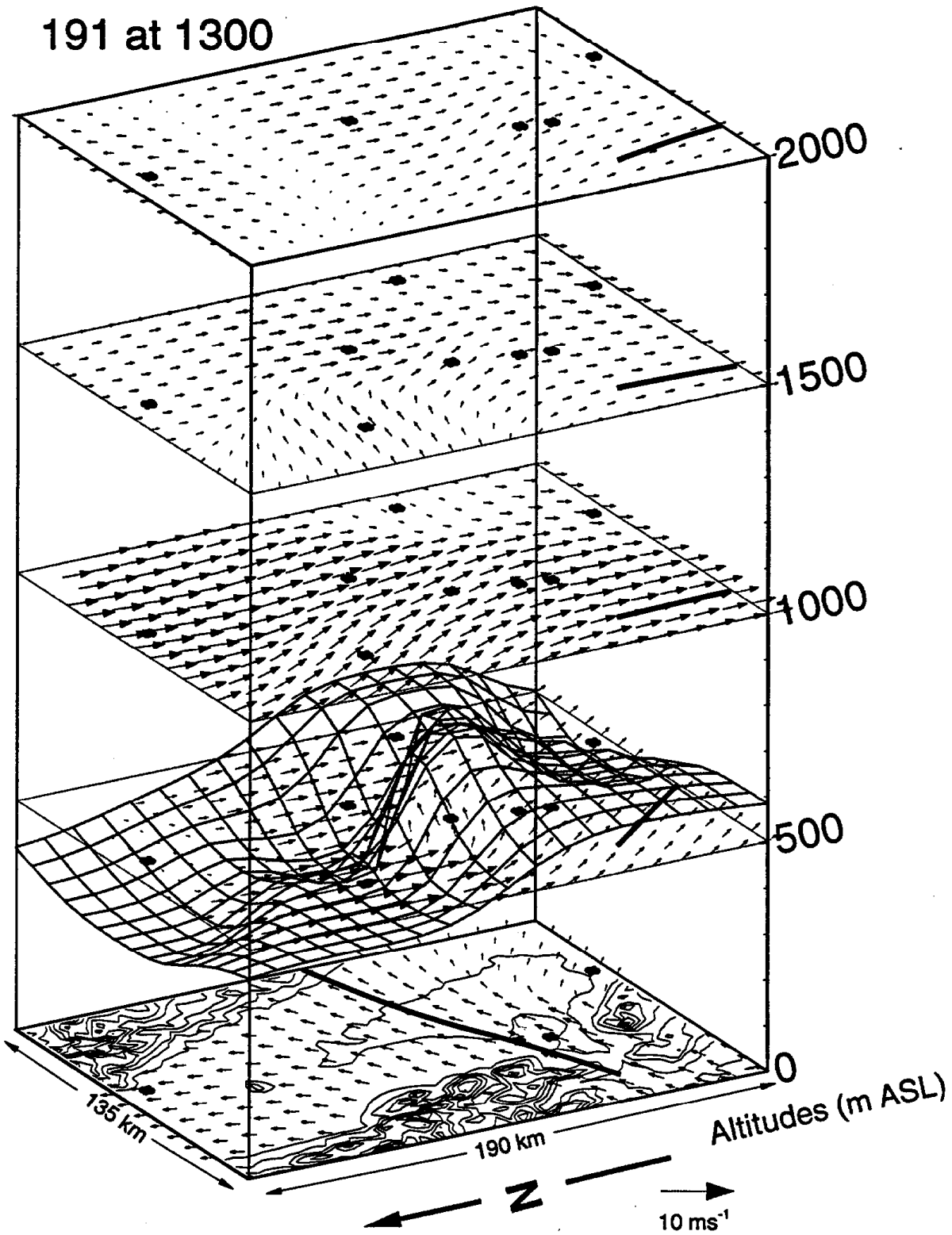

191 at 0800
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

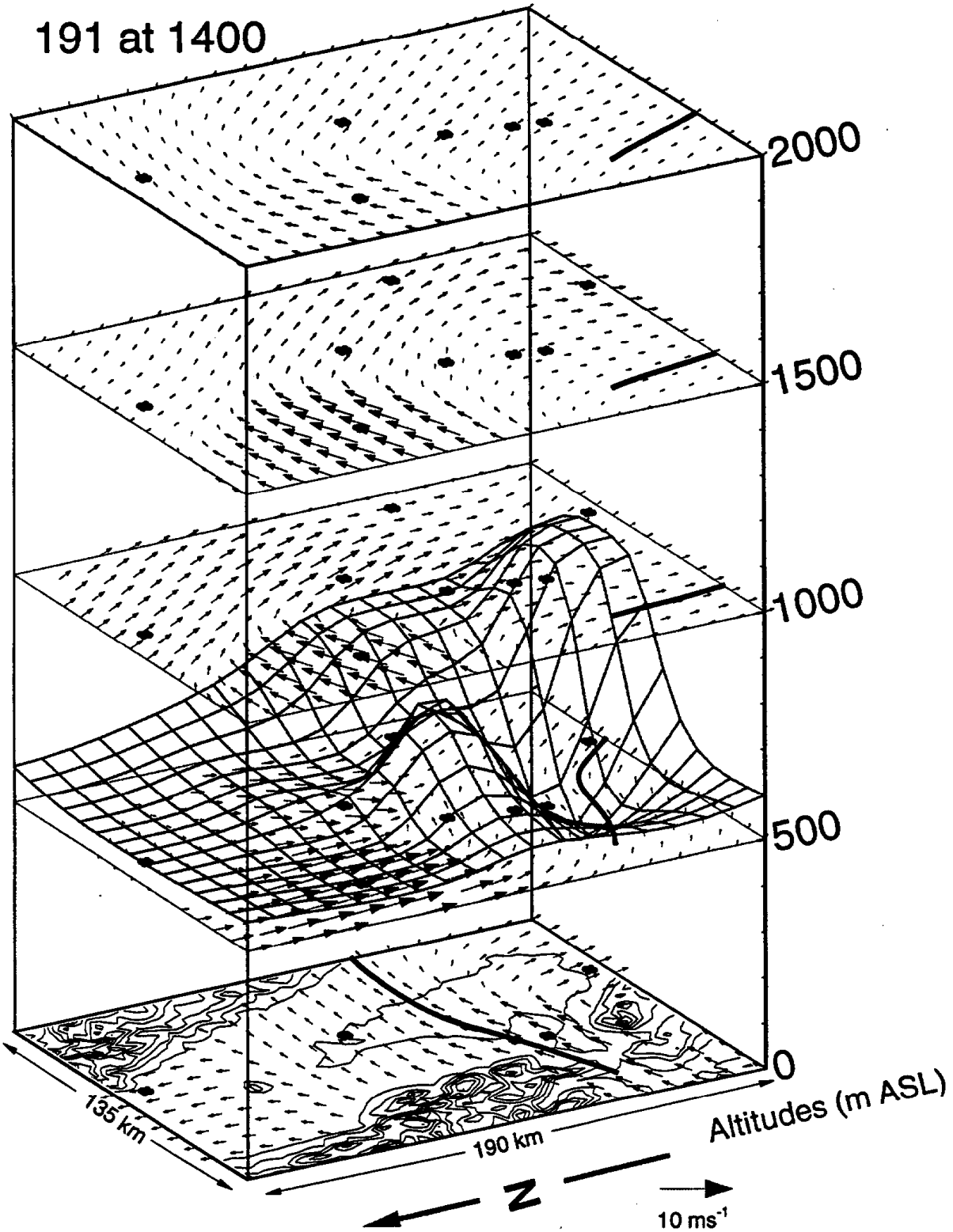

191 at 0900
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

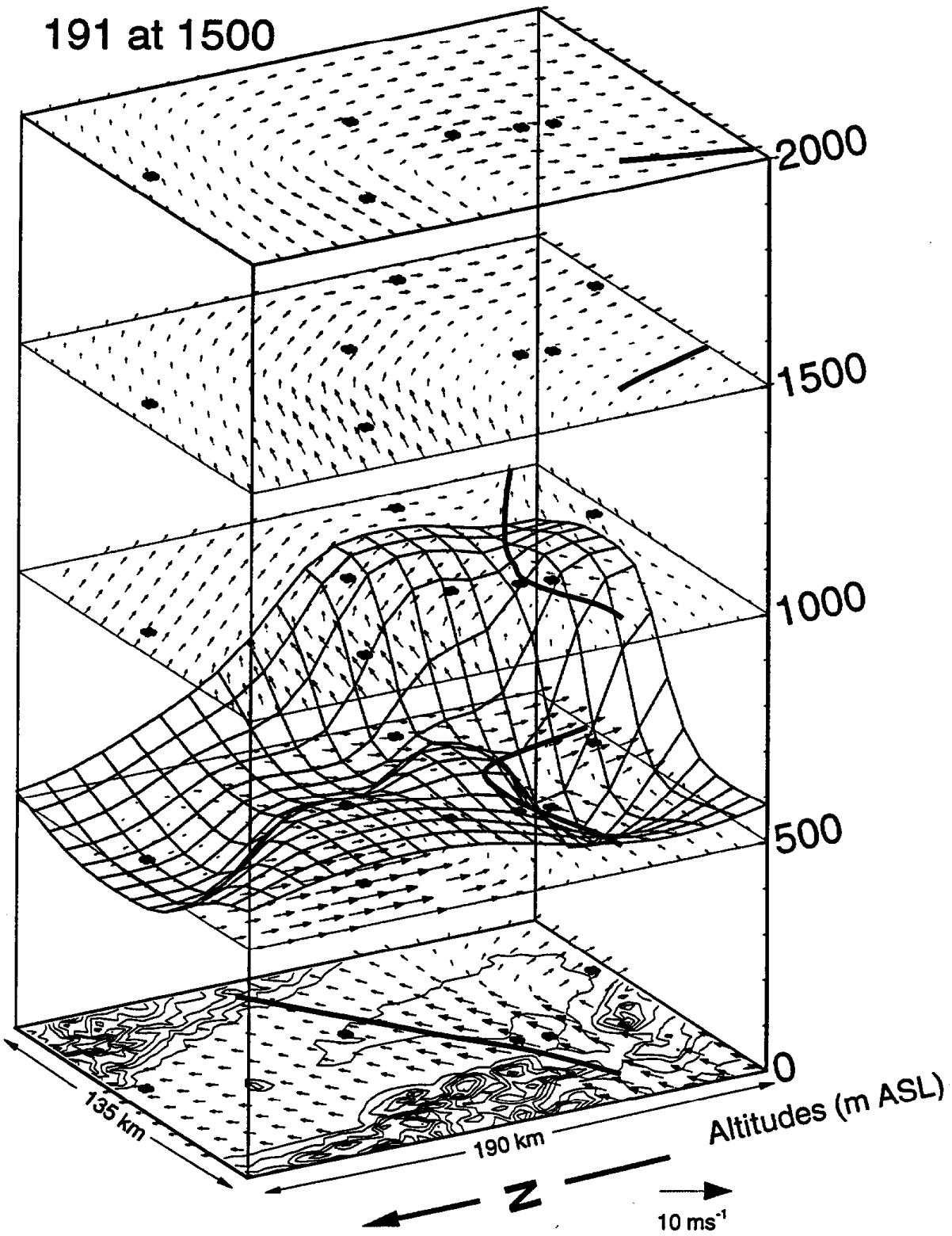

191 at 1000
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

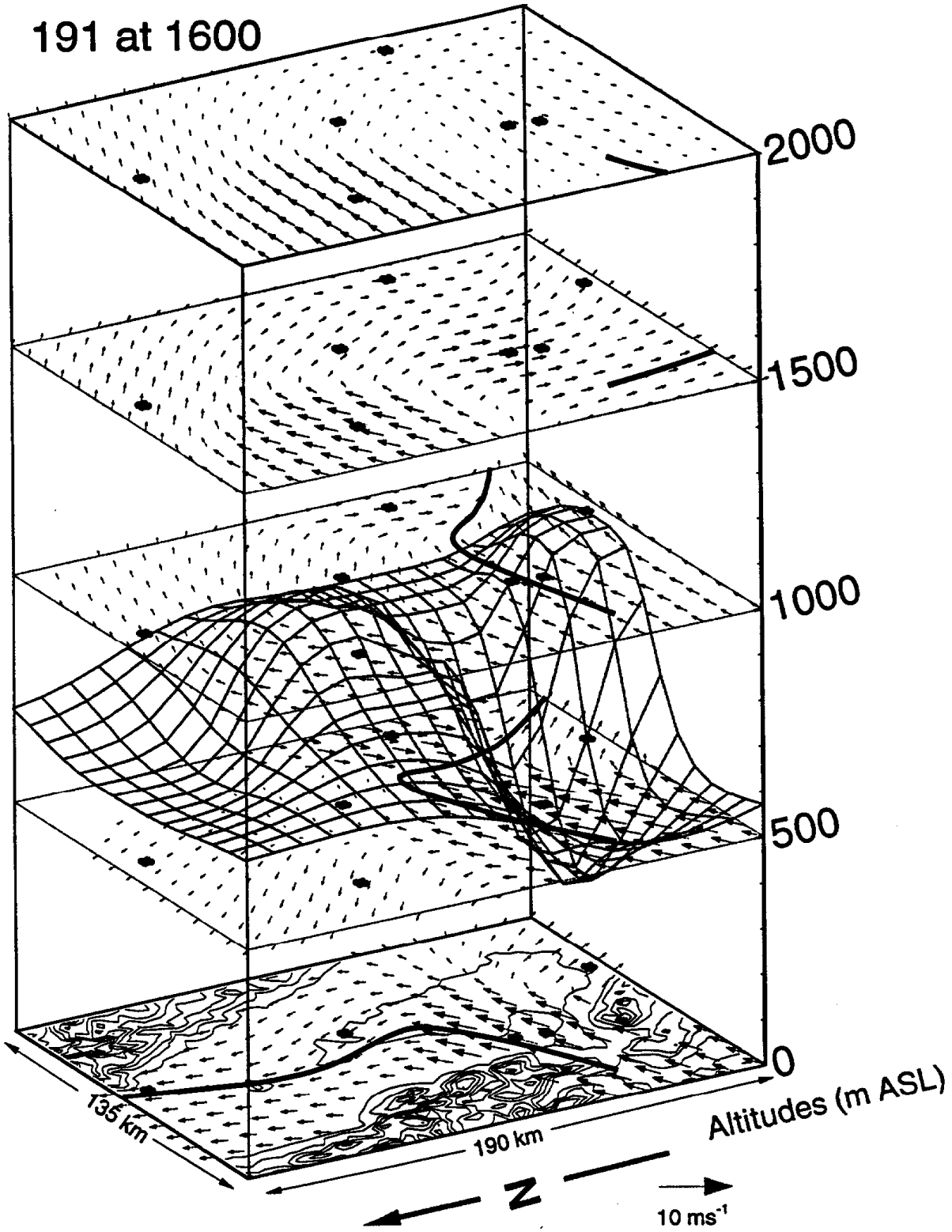

191 at 1100
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

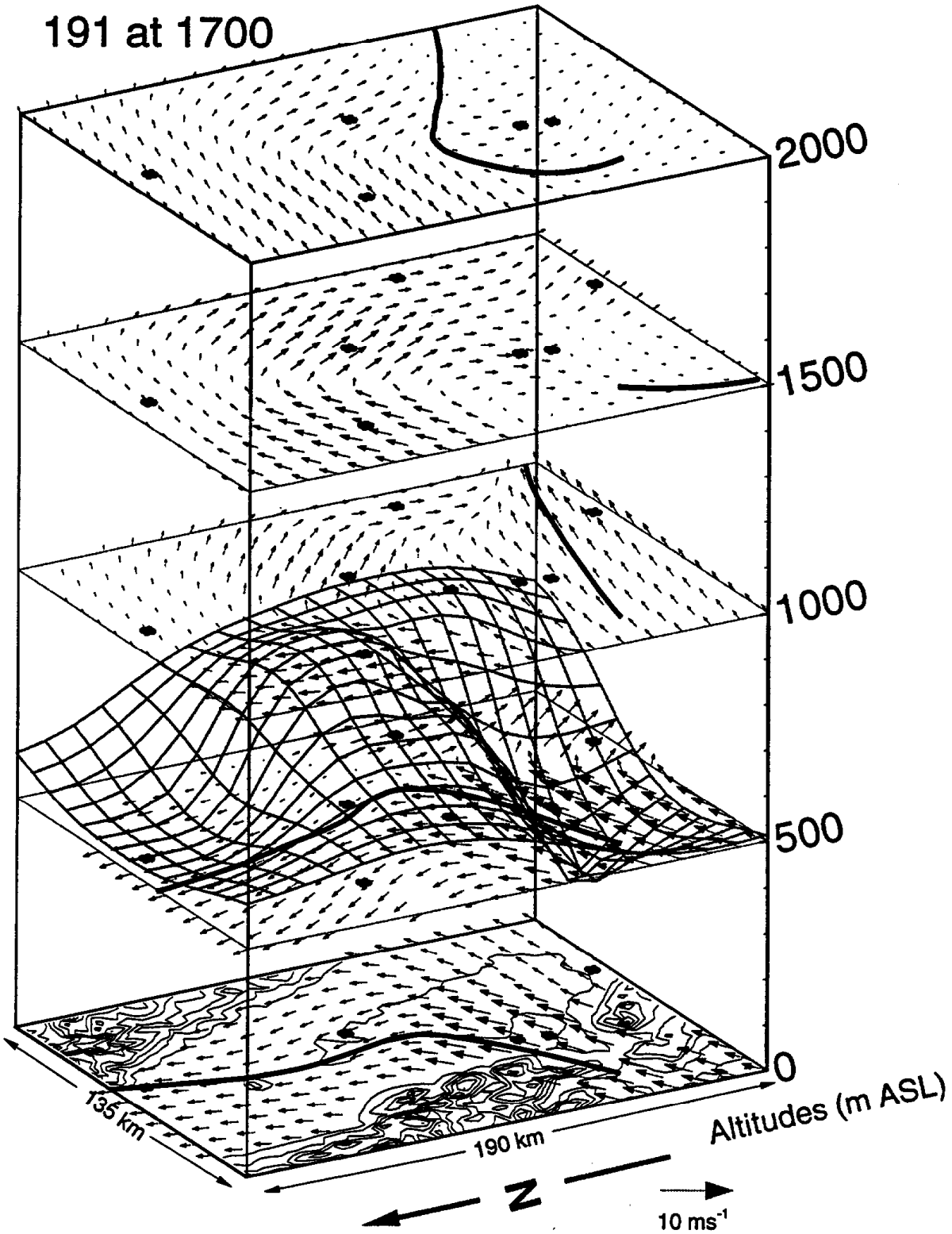

191 at 1200
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

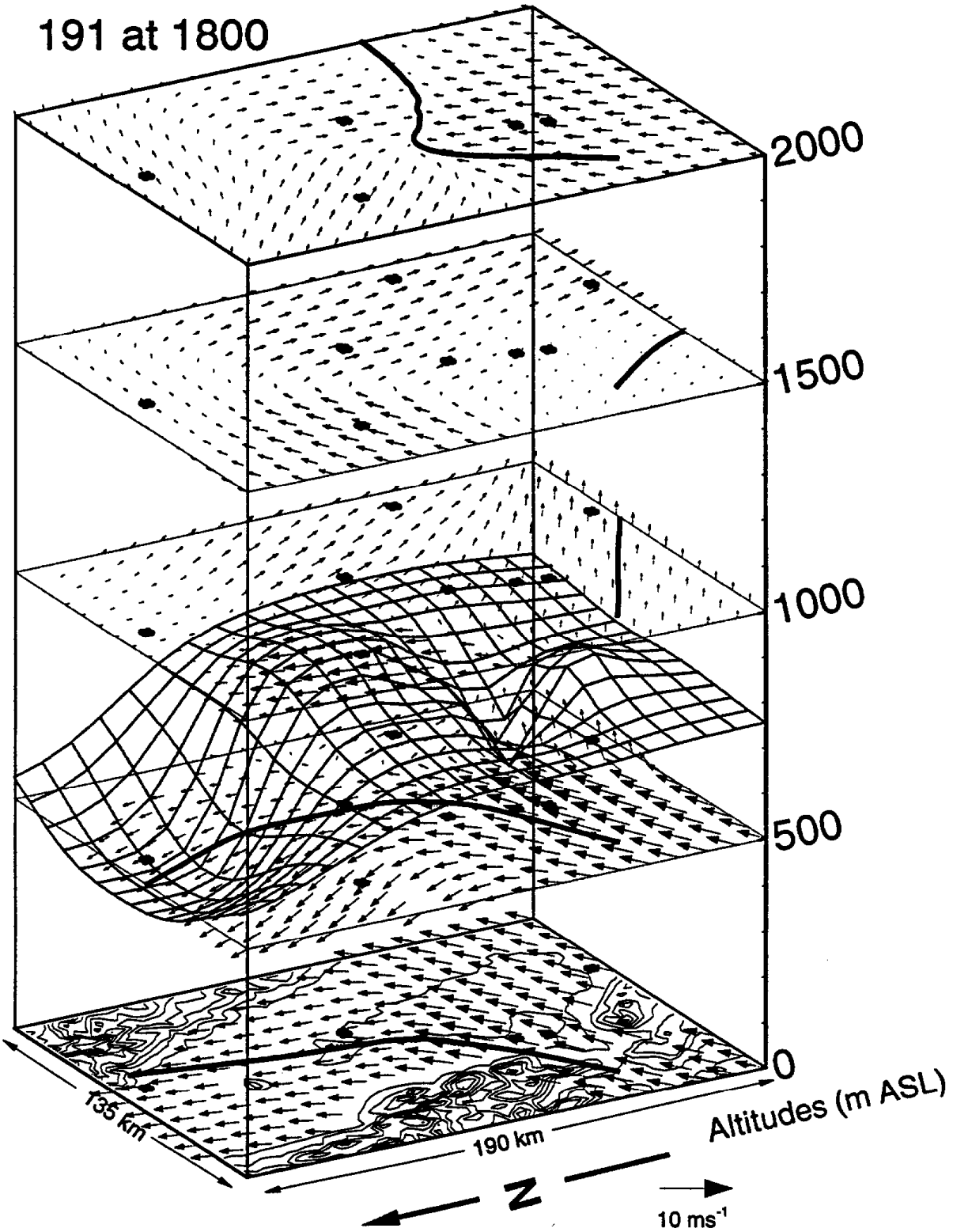

191 at 1300
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

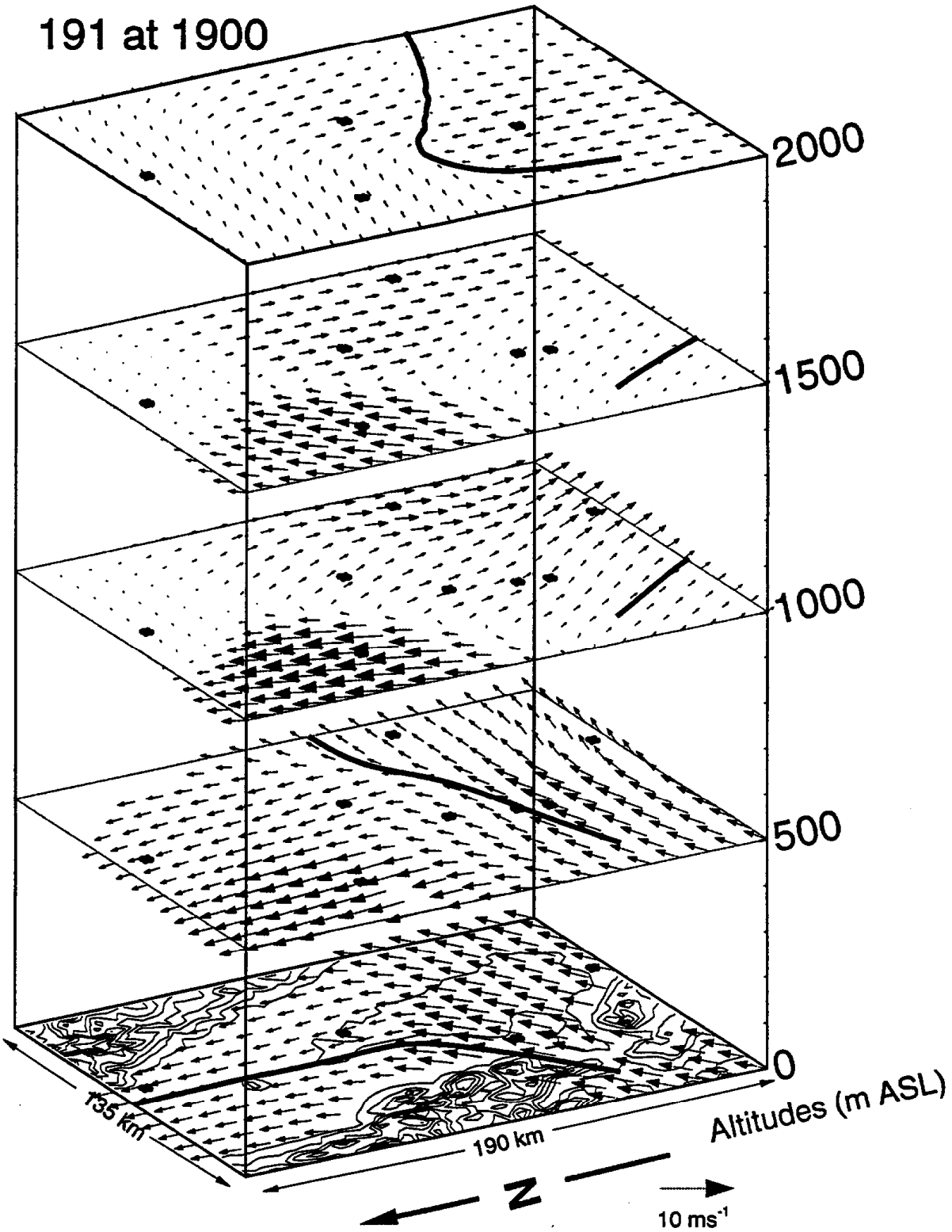

191 at 1400
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

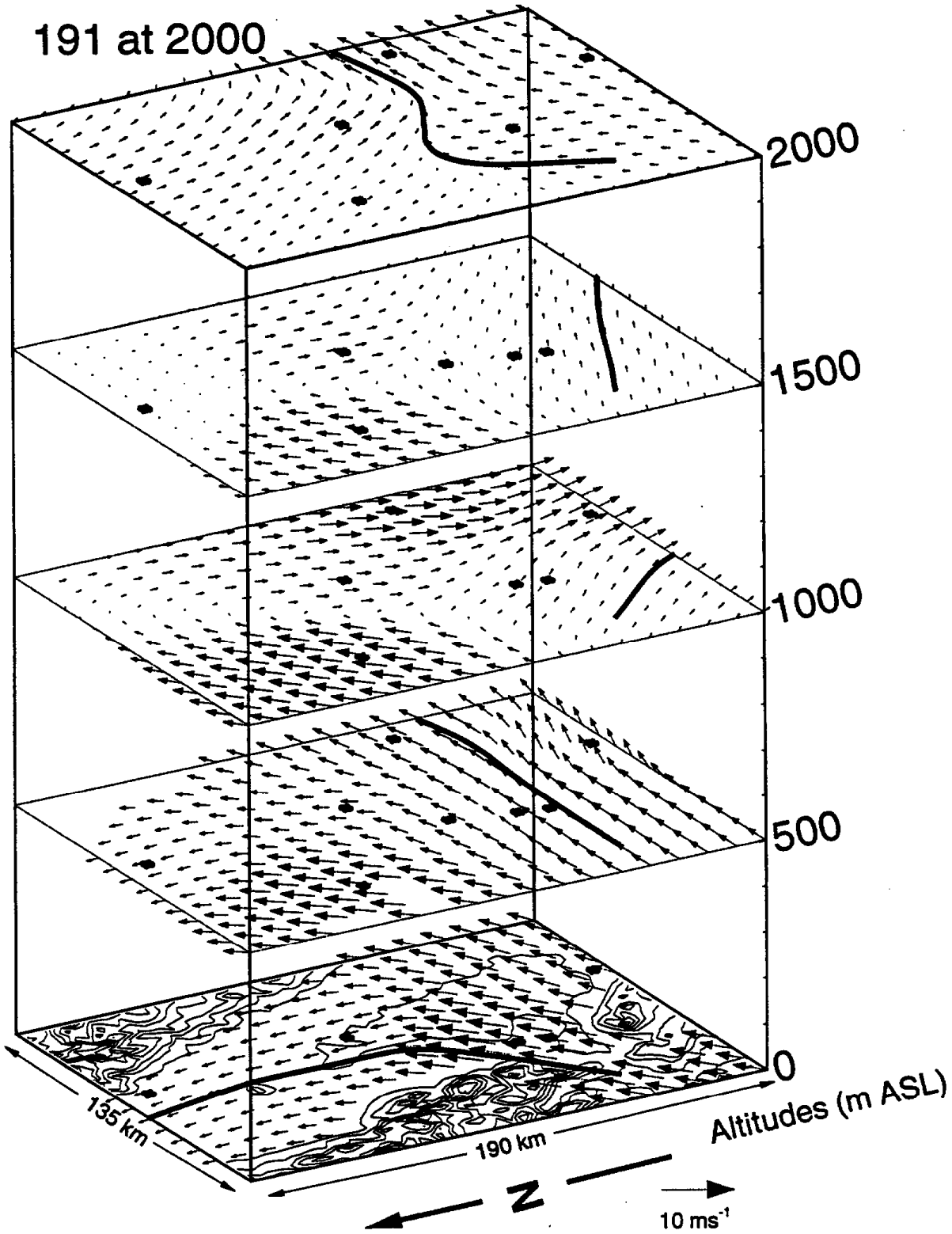

191 at 1500
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

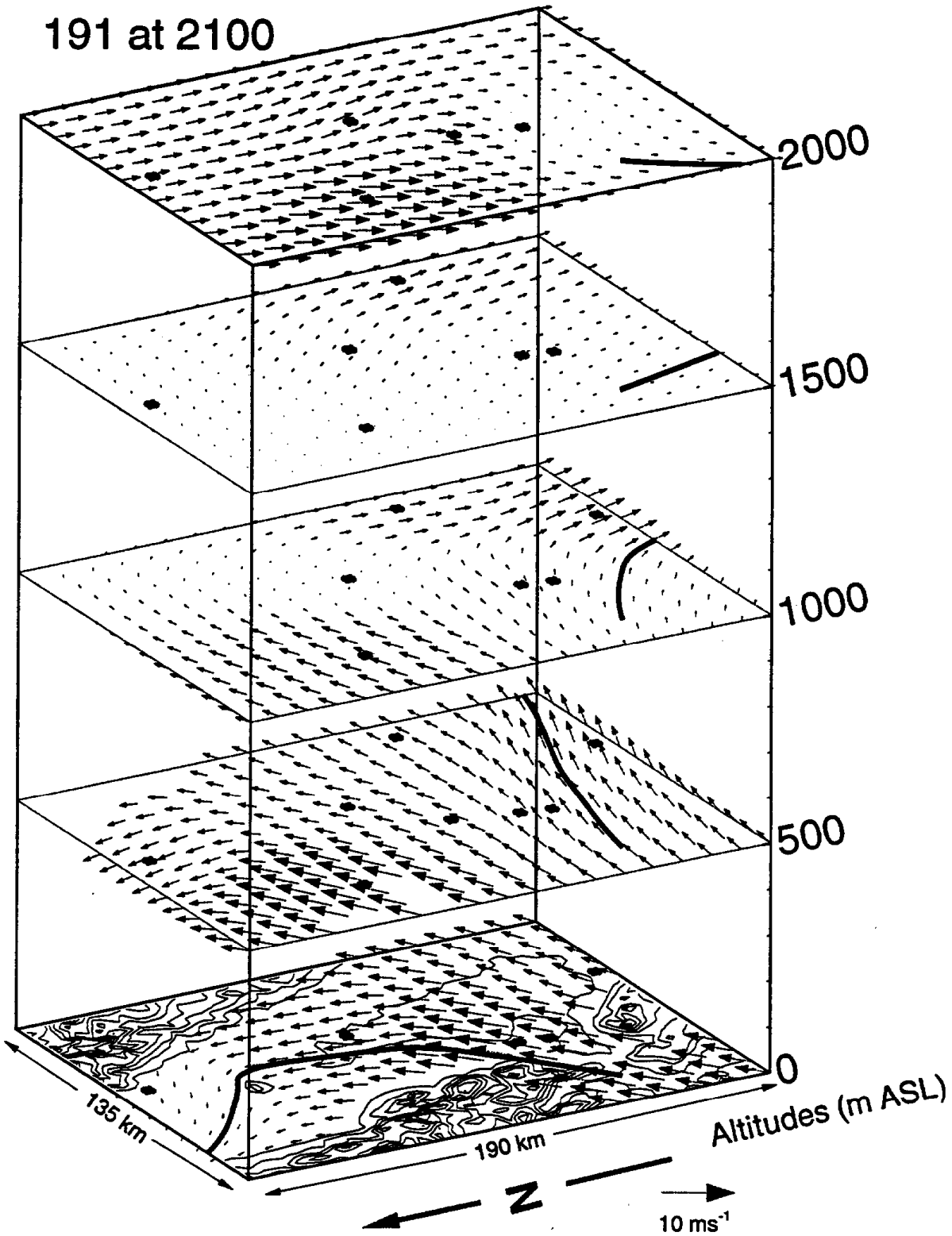

191 at 1600
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms⁻¹

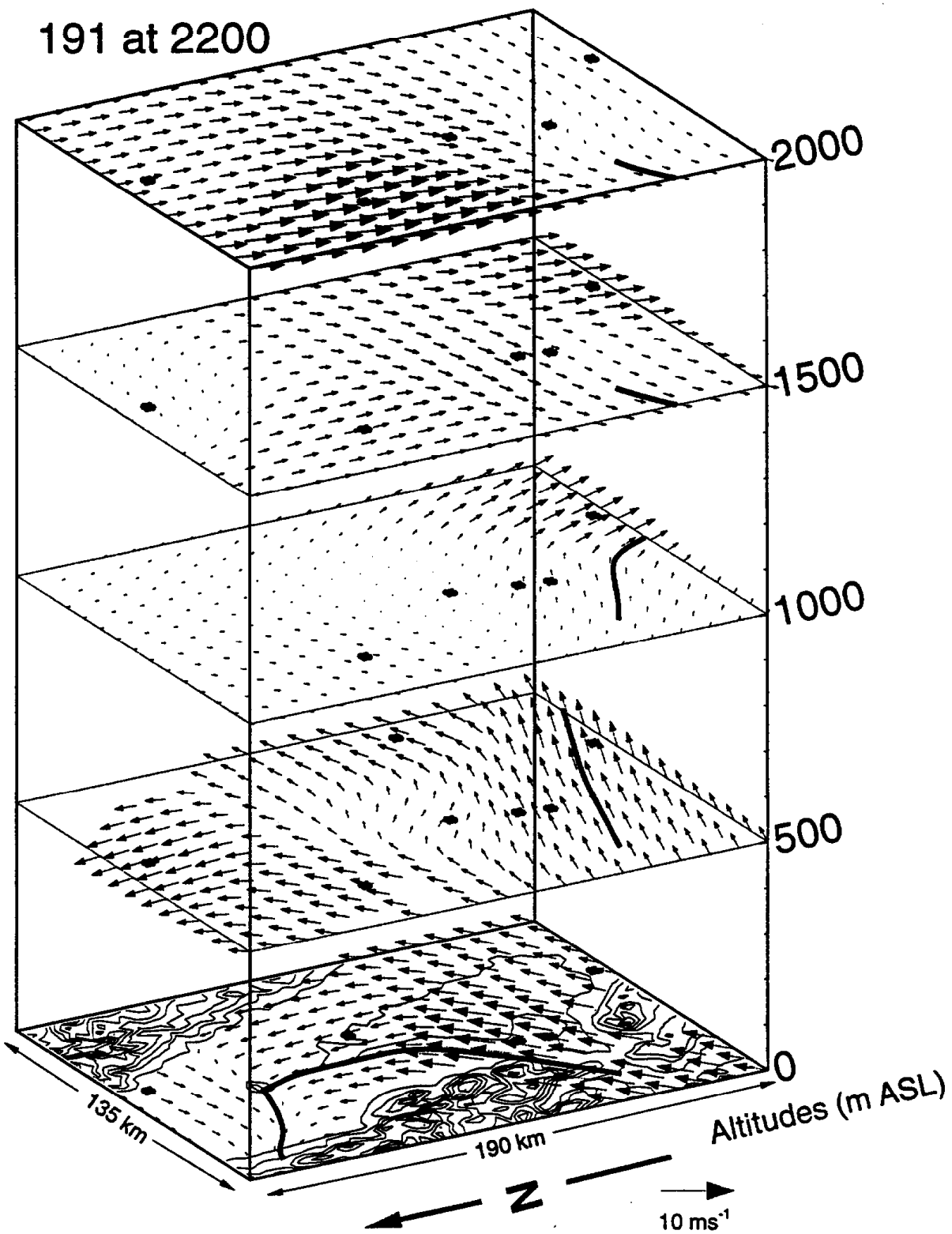

191 at 1700
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

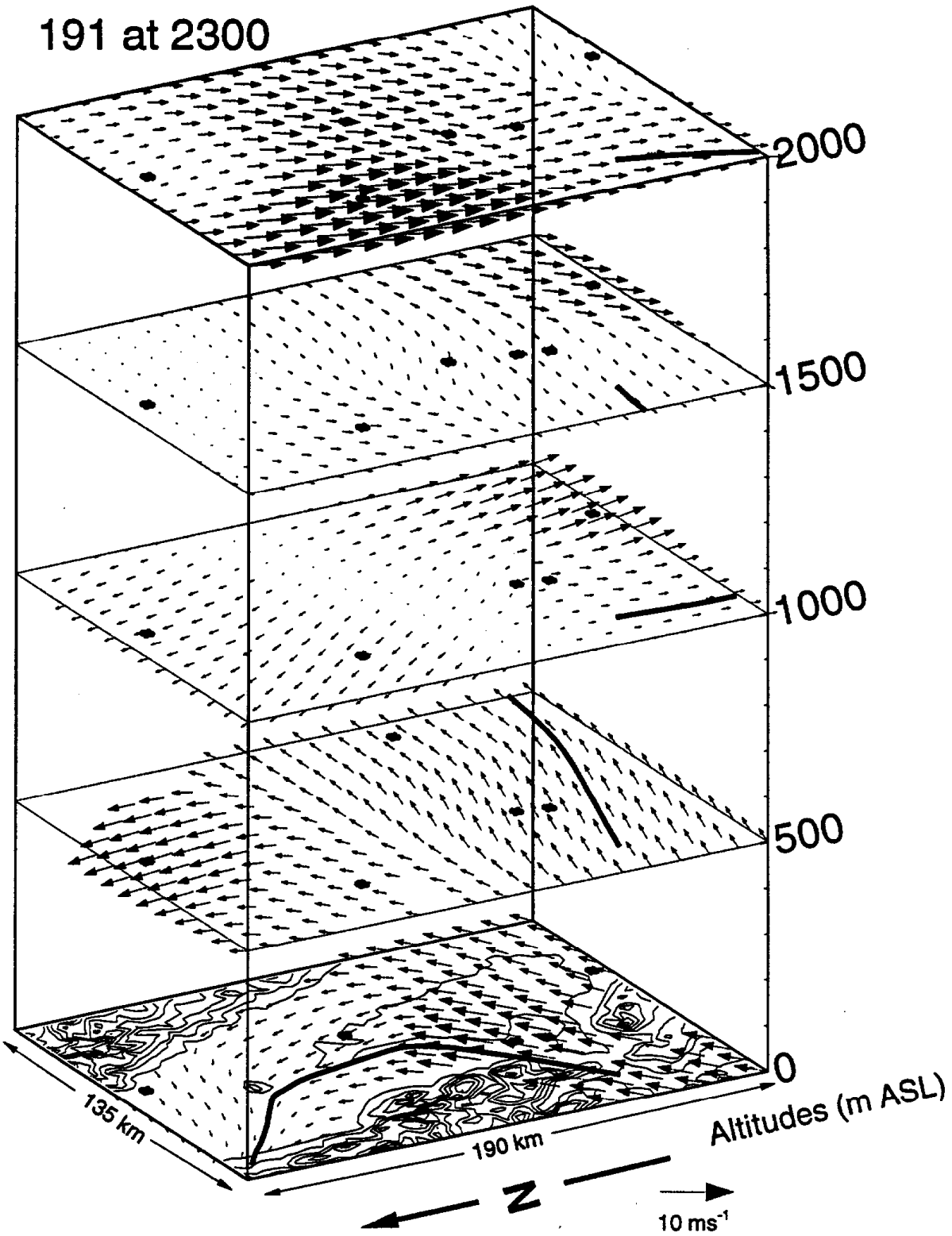

191 at 1800
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1


191 at 1900
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1


191 at 2000
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1


191 at 2100
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

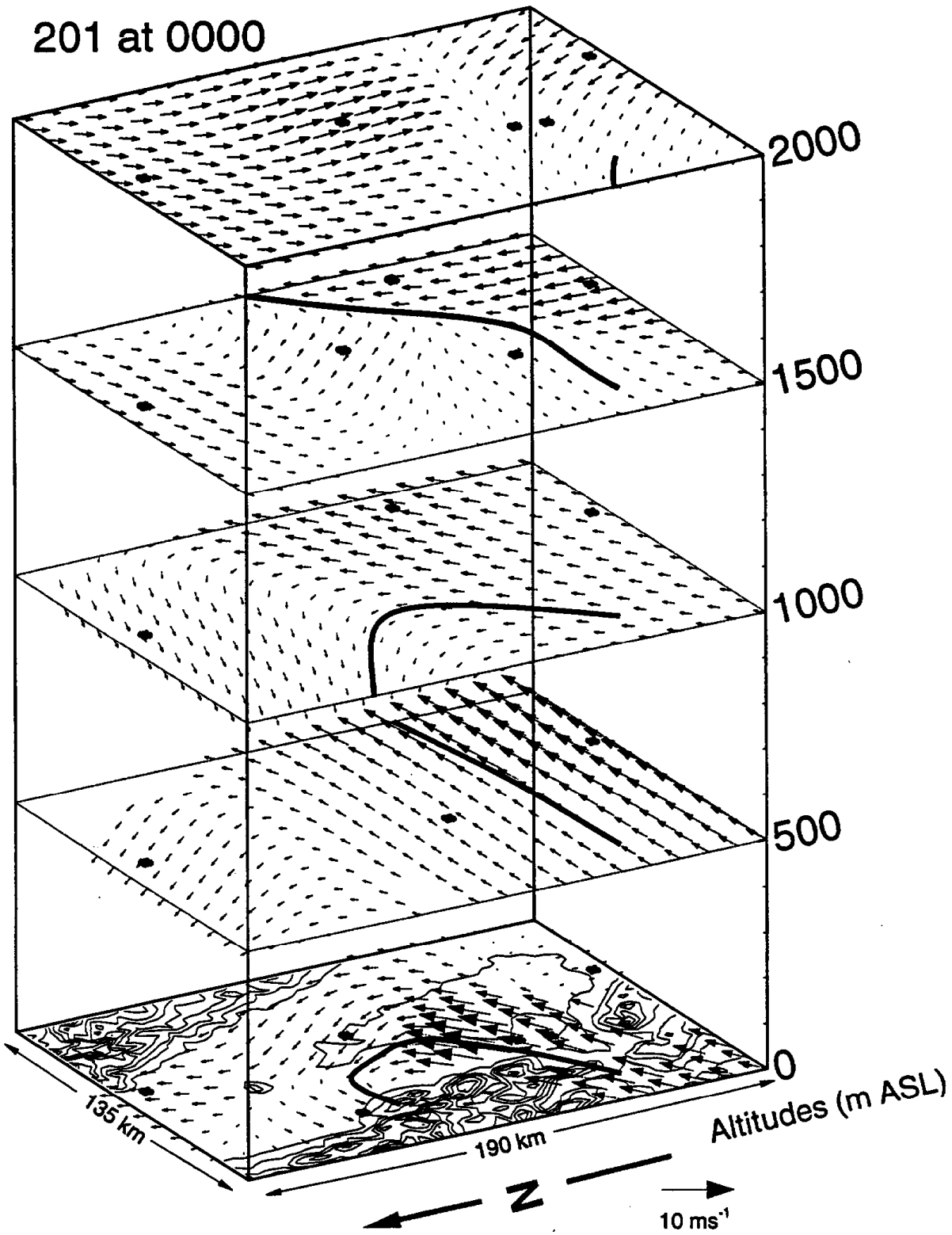

191 at 2200
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

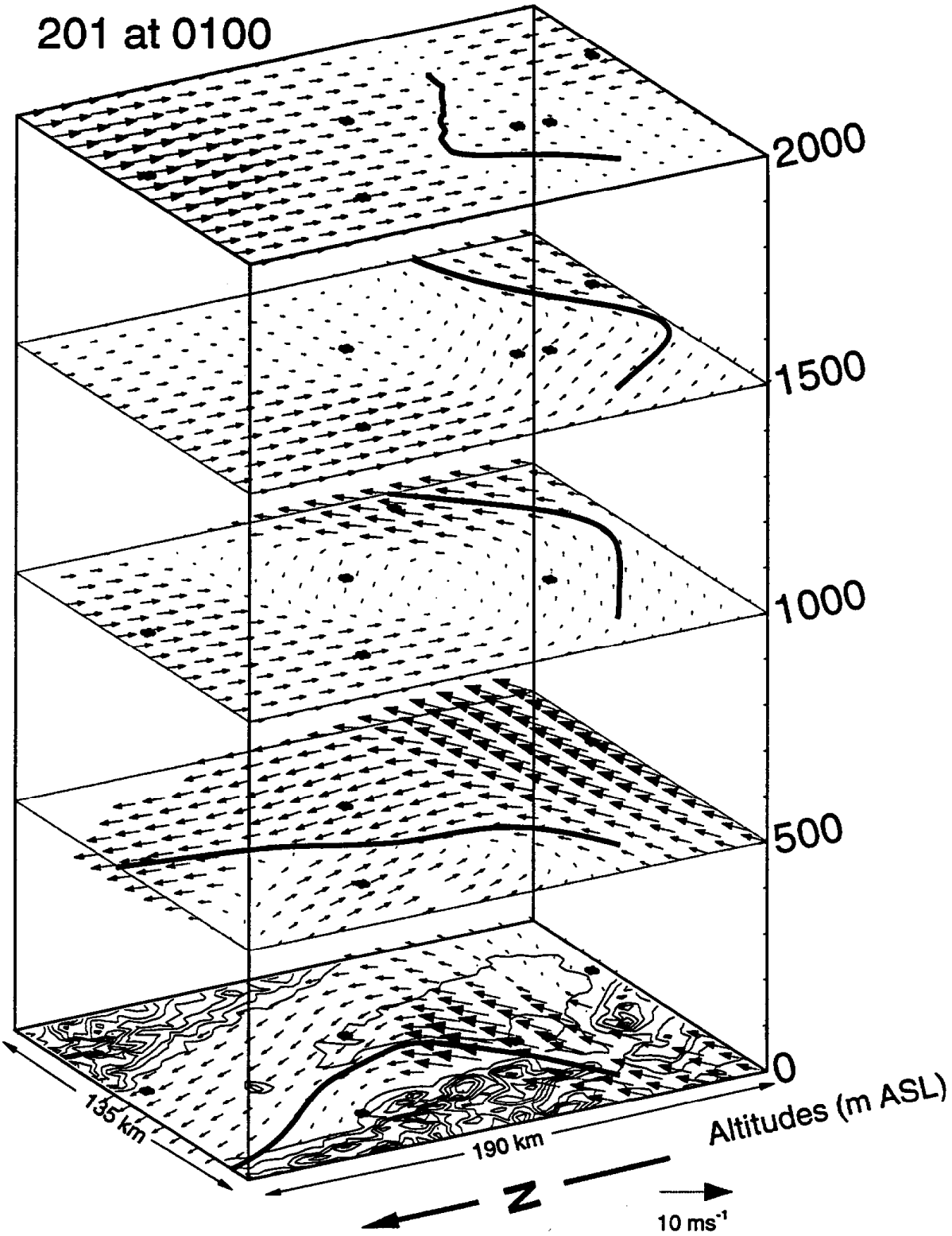

191 at 2300
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

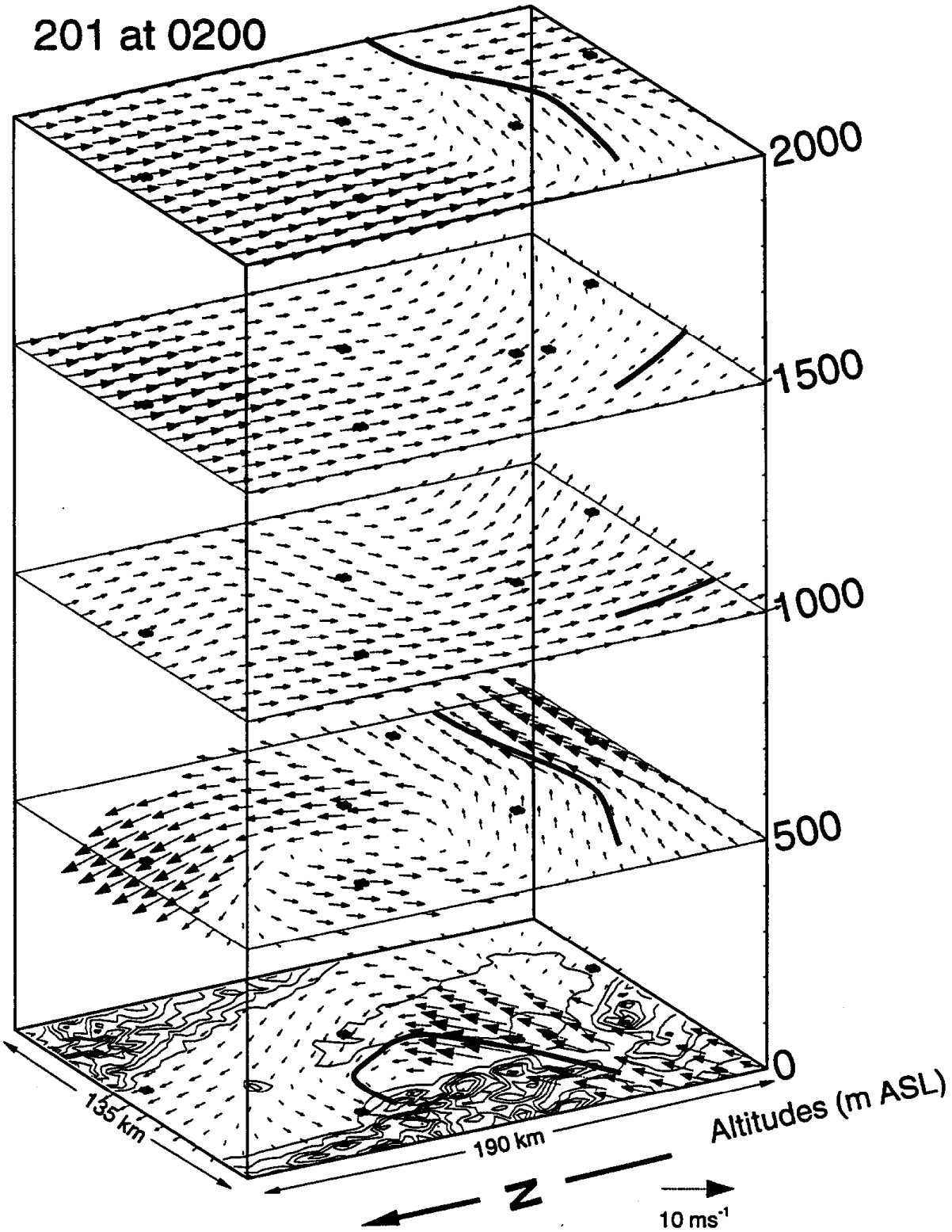
APPENDIX I

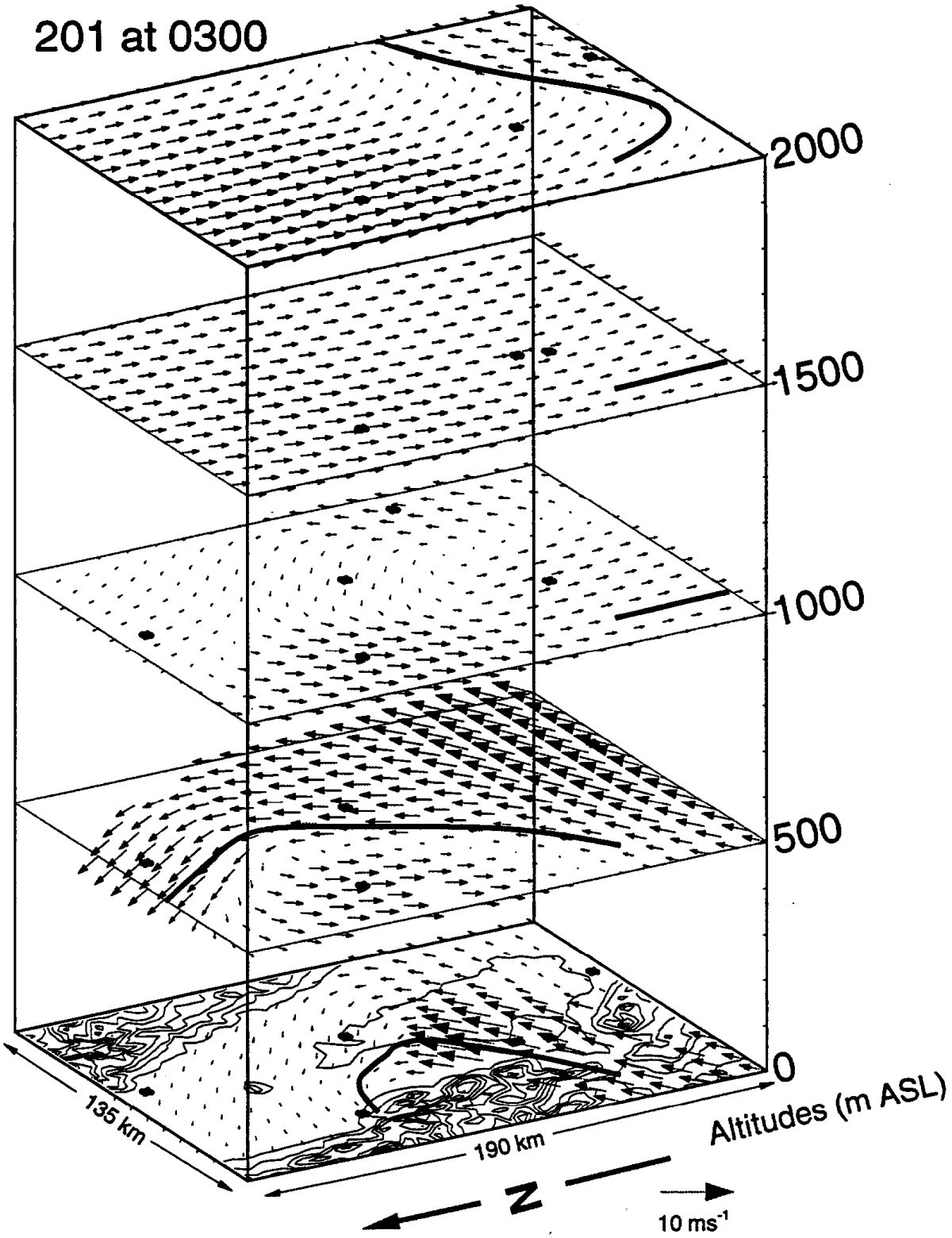
Hourly Interpolated Northern California Transport Wind Fields

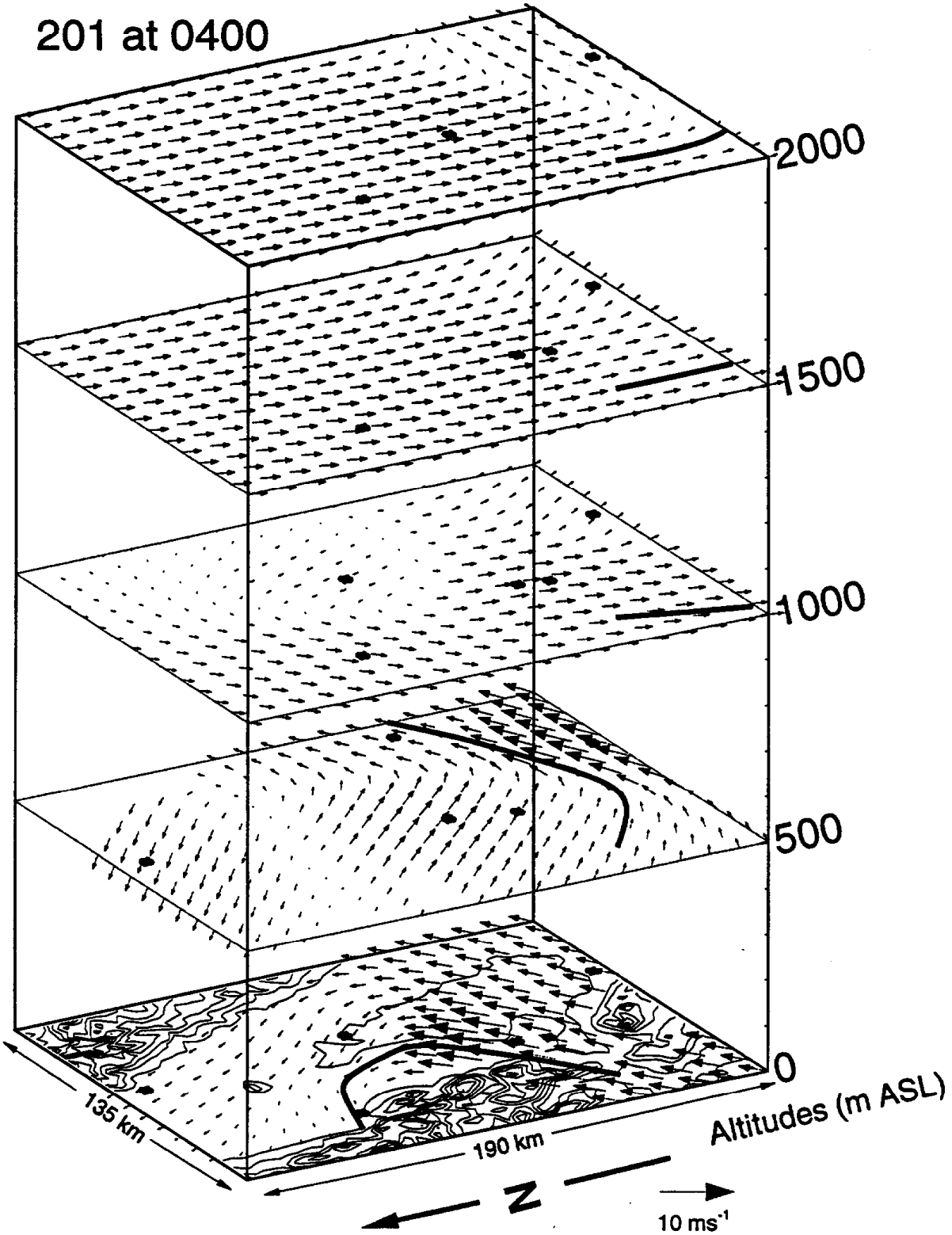
For 20 July 1991 (Julian Day 201): A Typical Trough Case

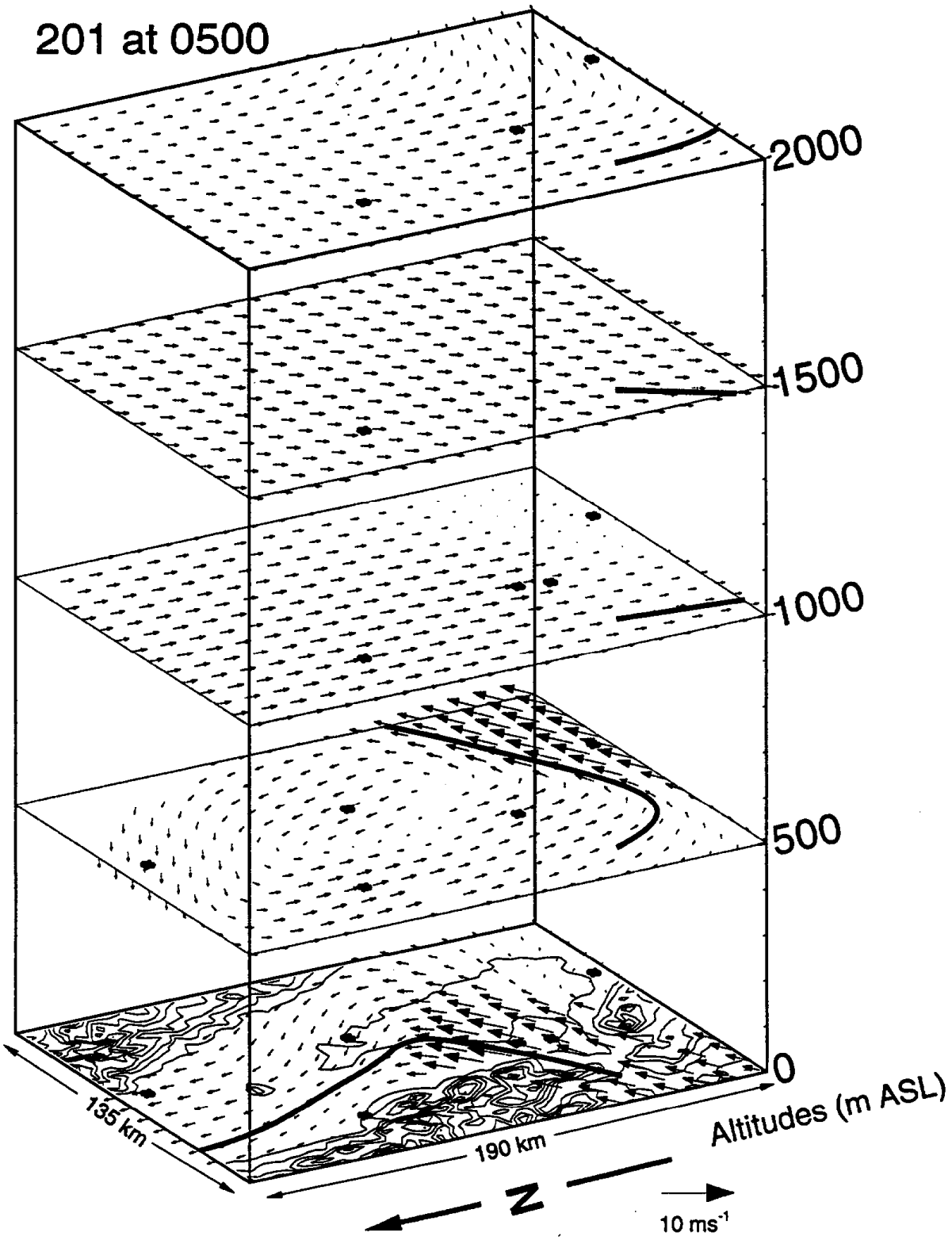

201 at 0000
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

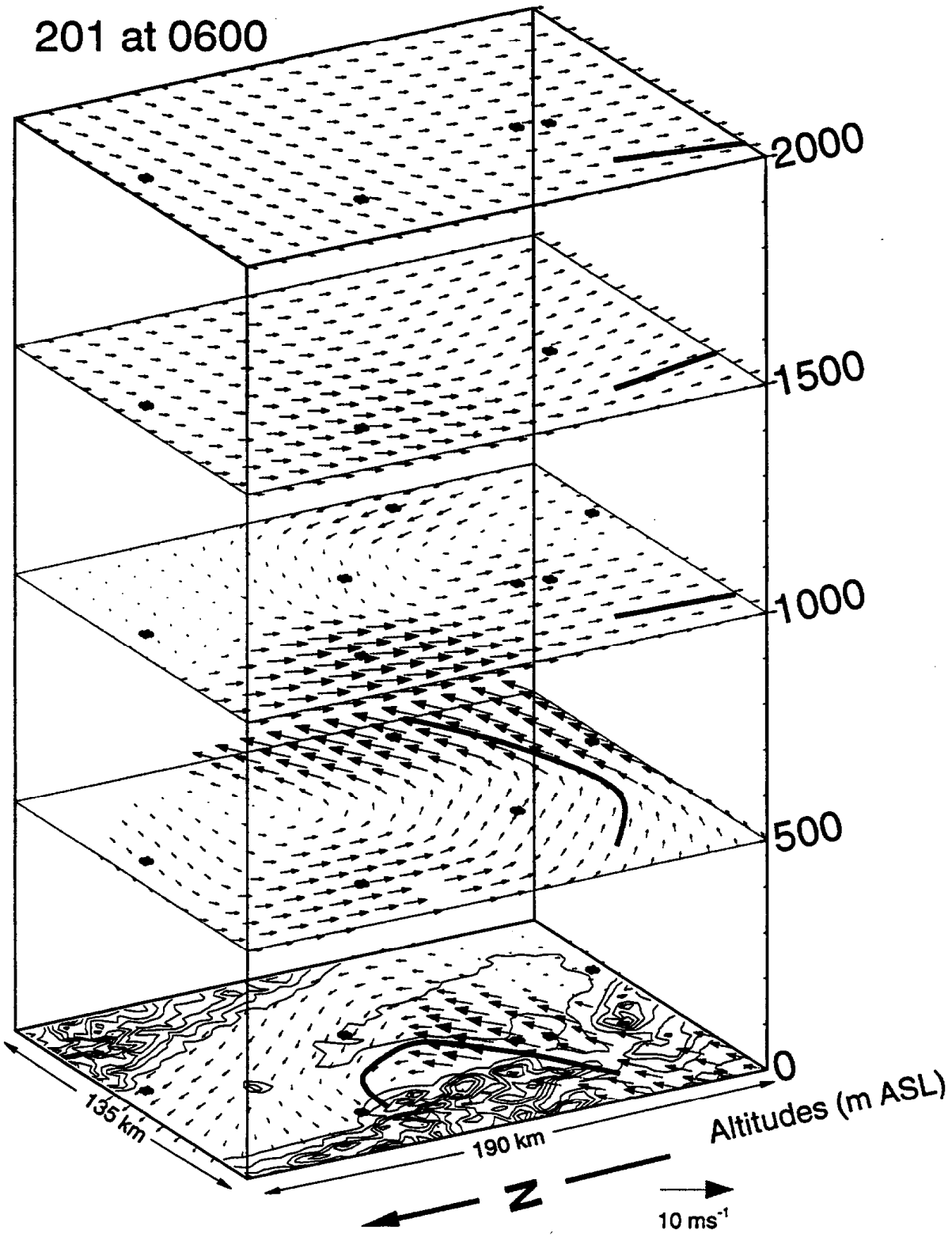

201 at 0100
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

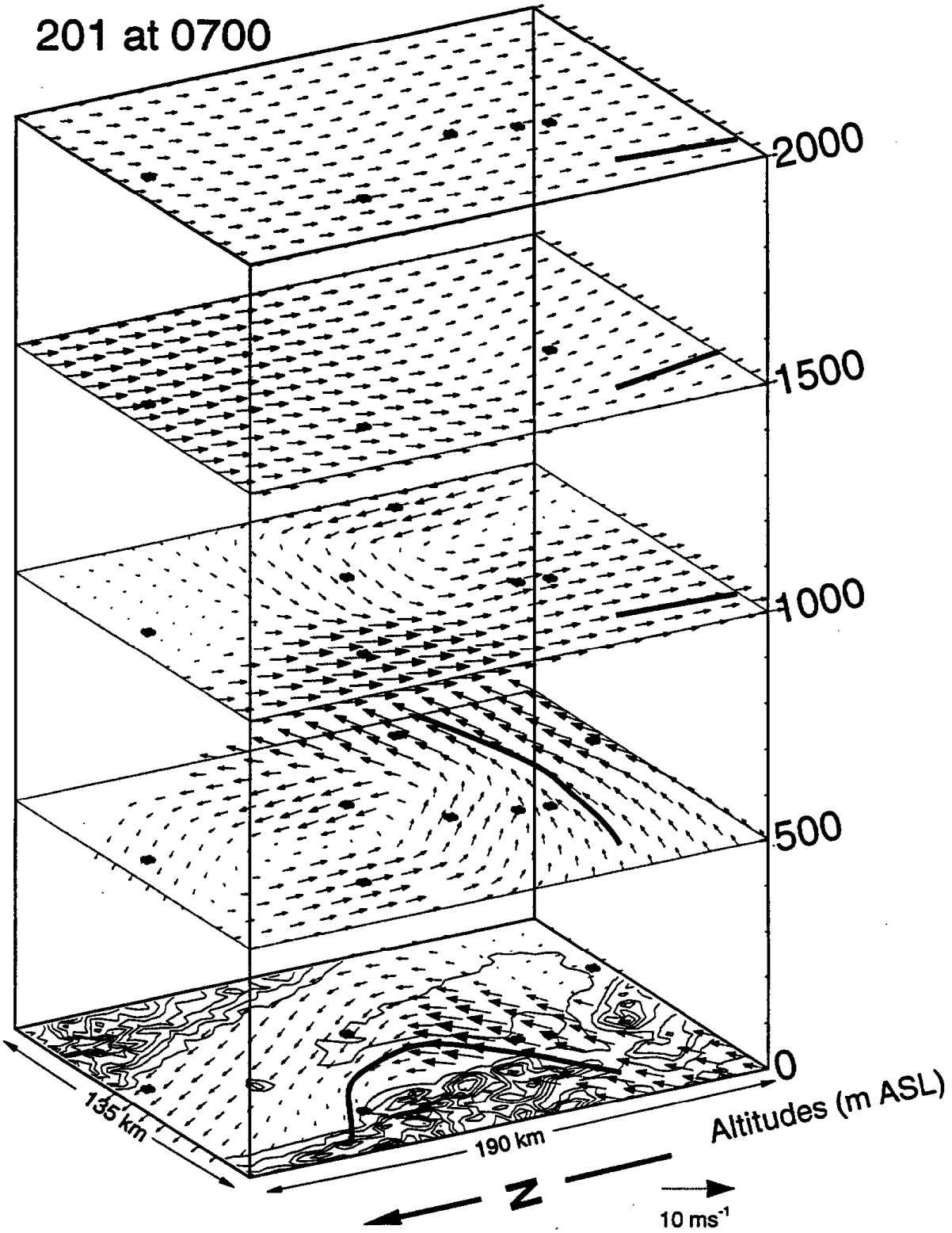

201 at 0200
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

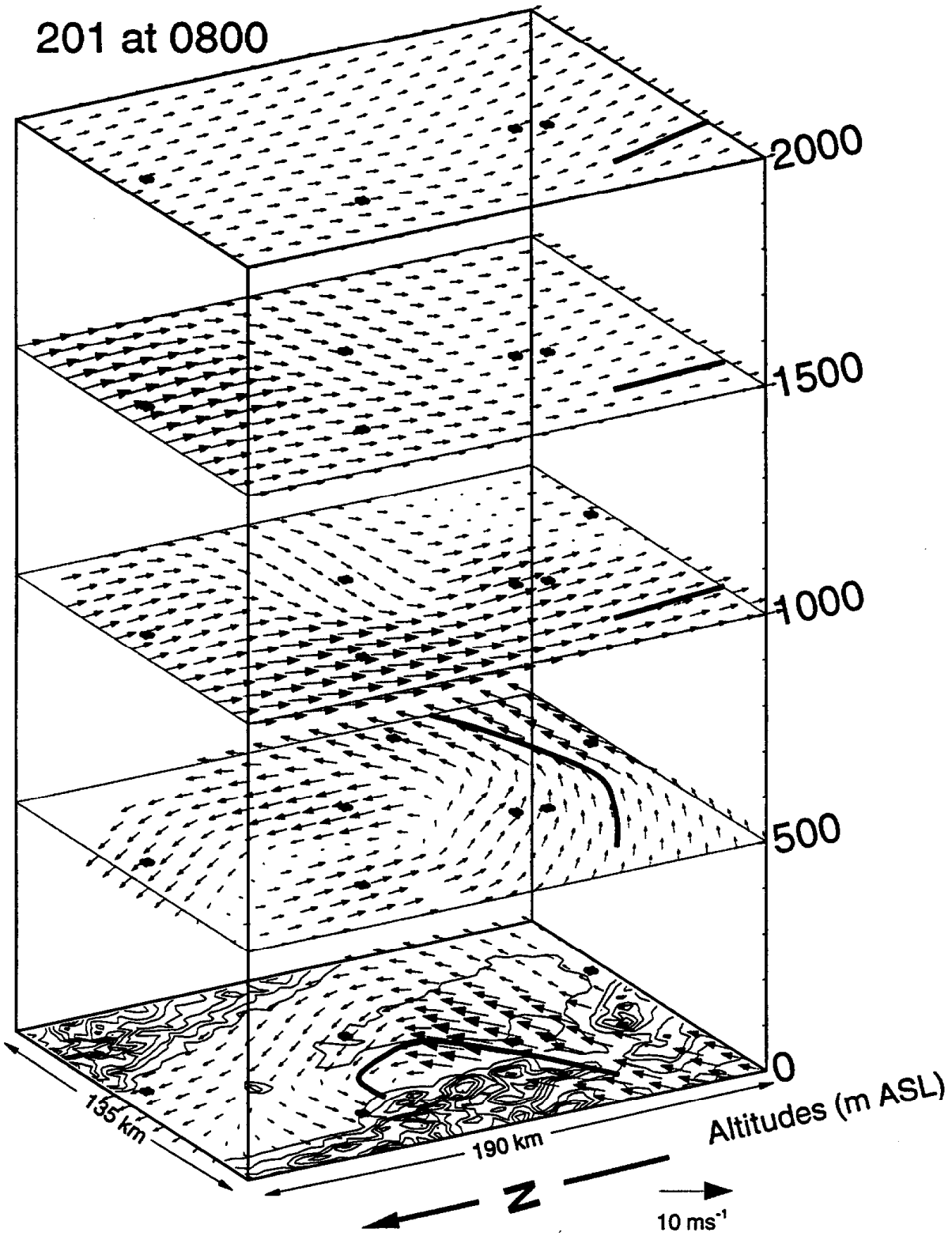

201 at 0300
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

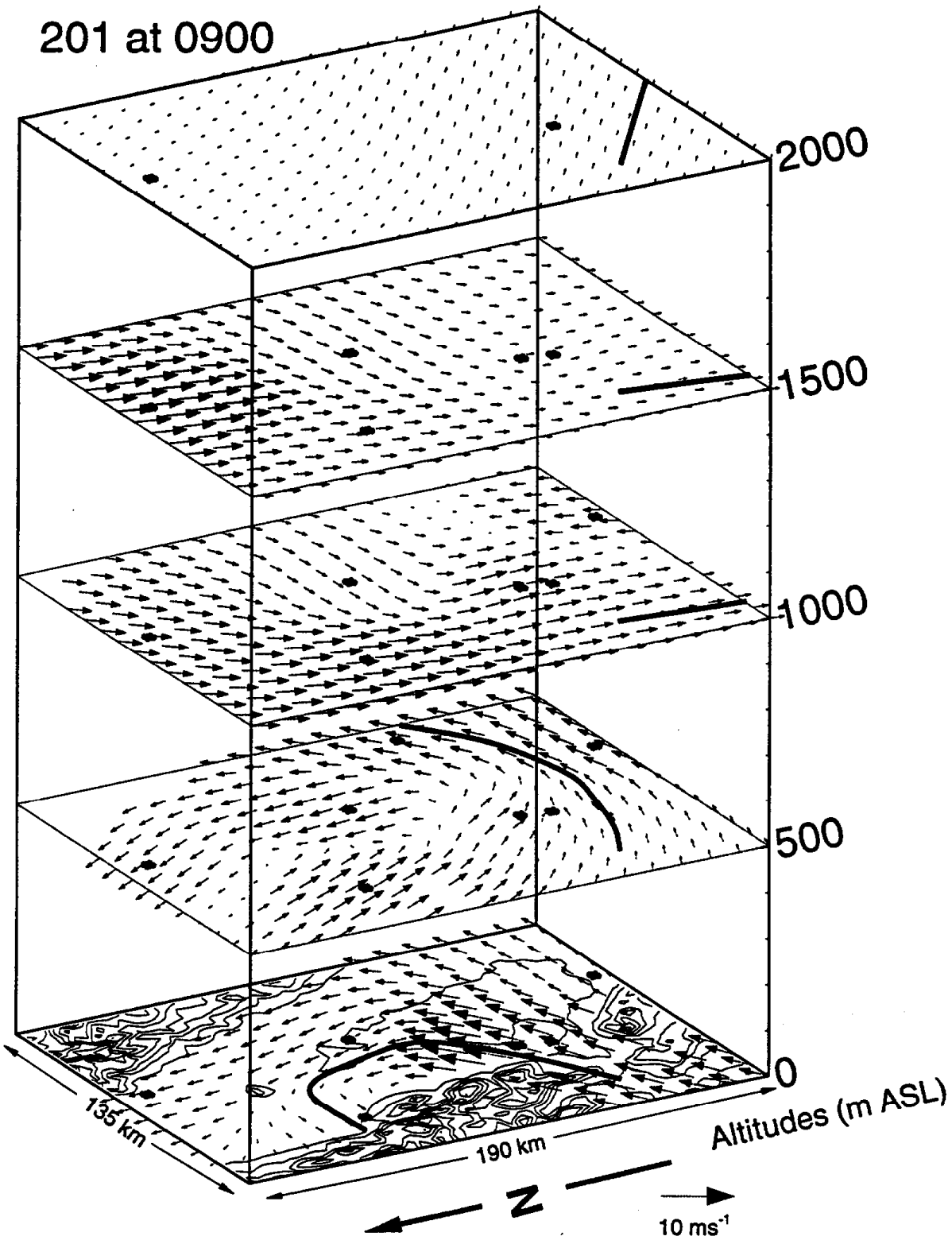

201 at 0400
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

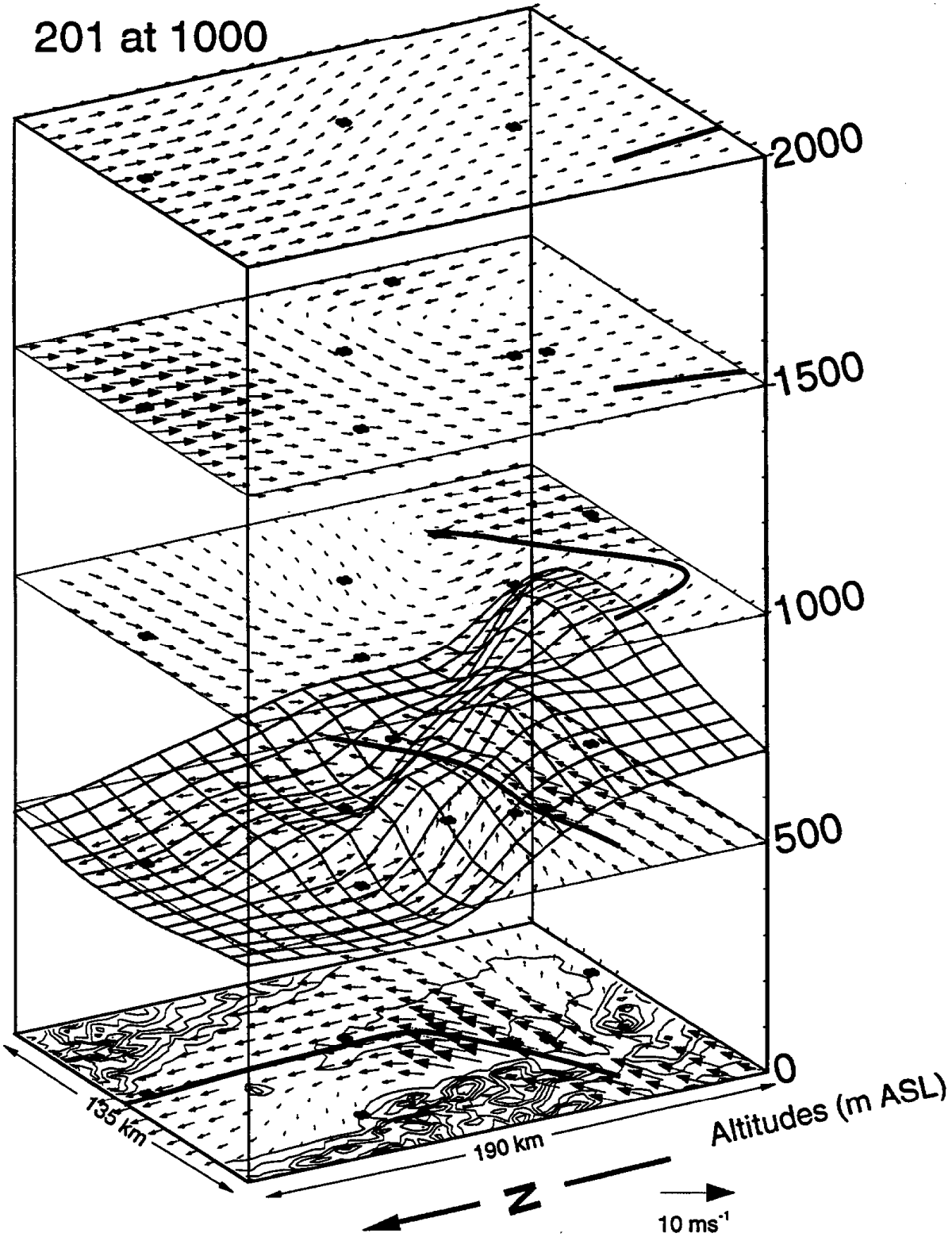

201 at 0500
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

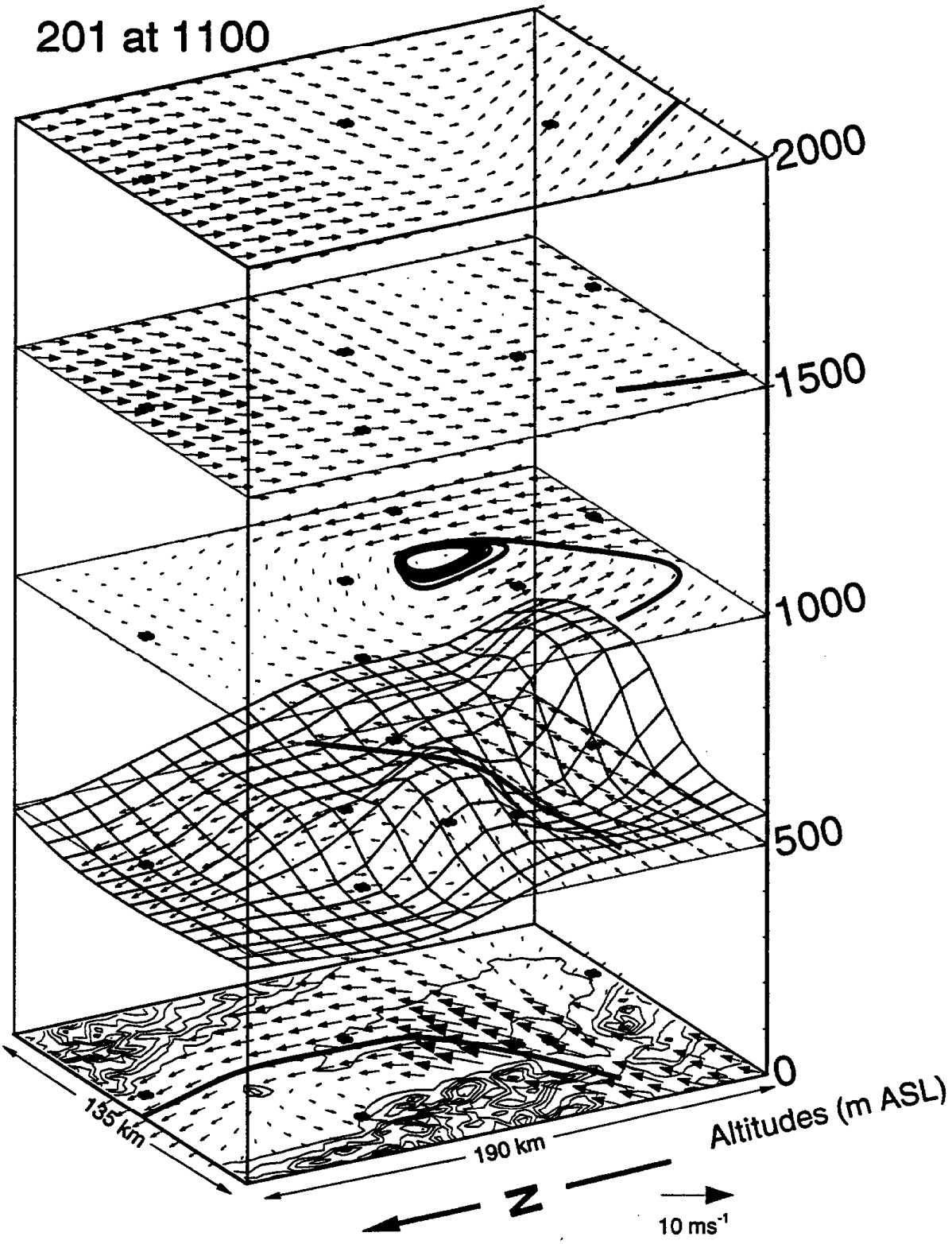

201 at 0600
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

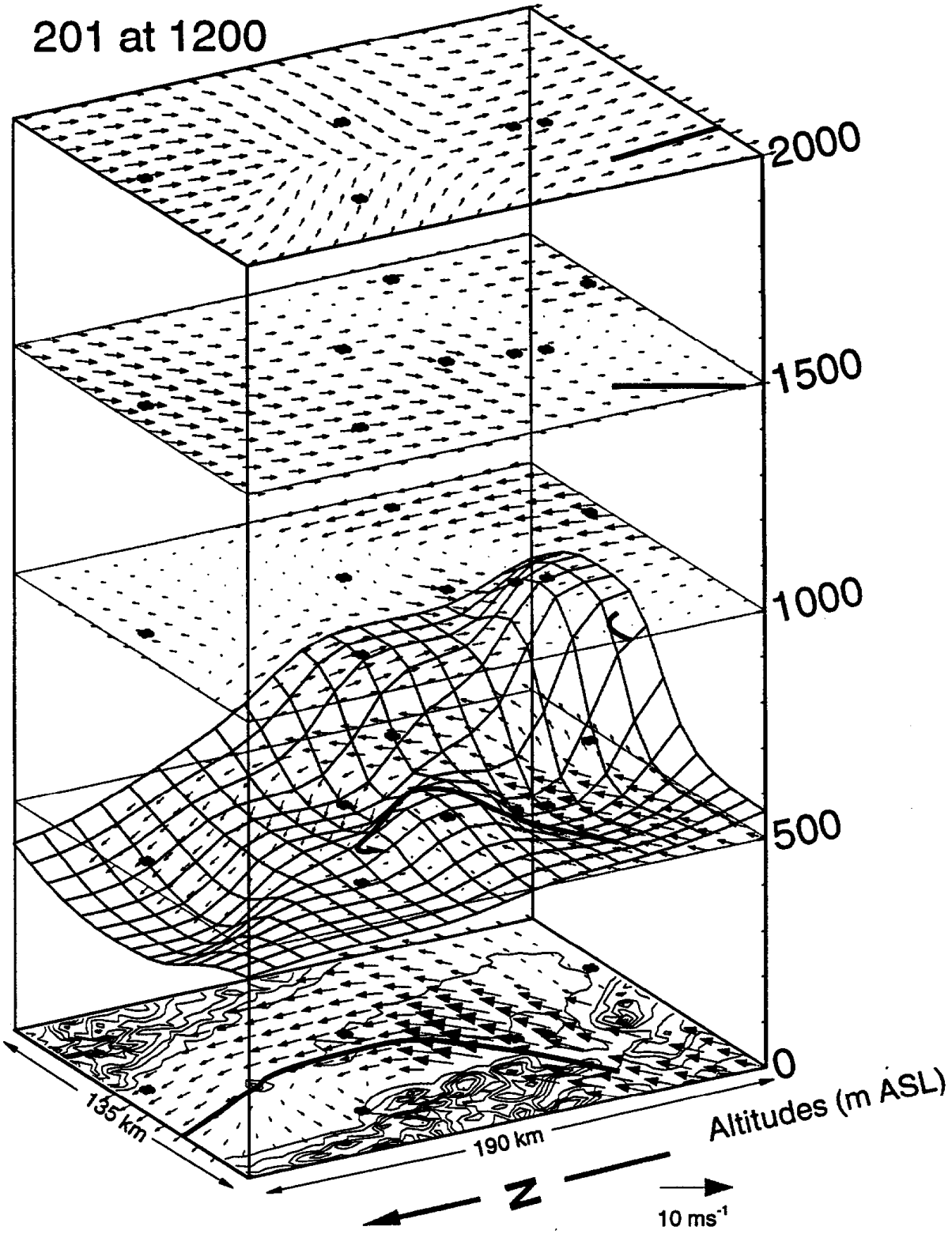

201 at 0700
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

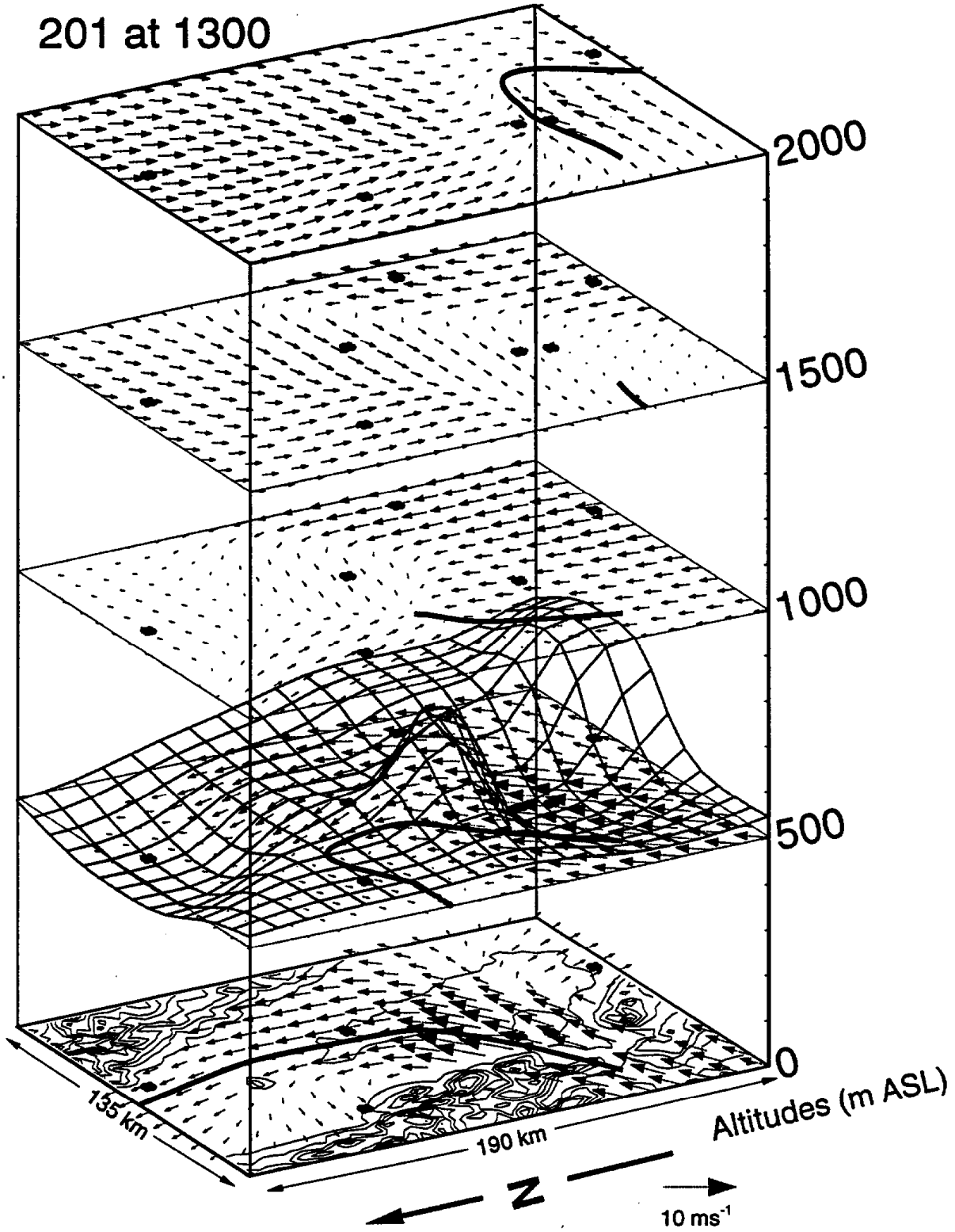

201 at 0800
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms⁻¹

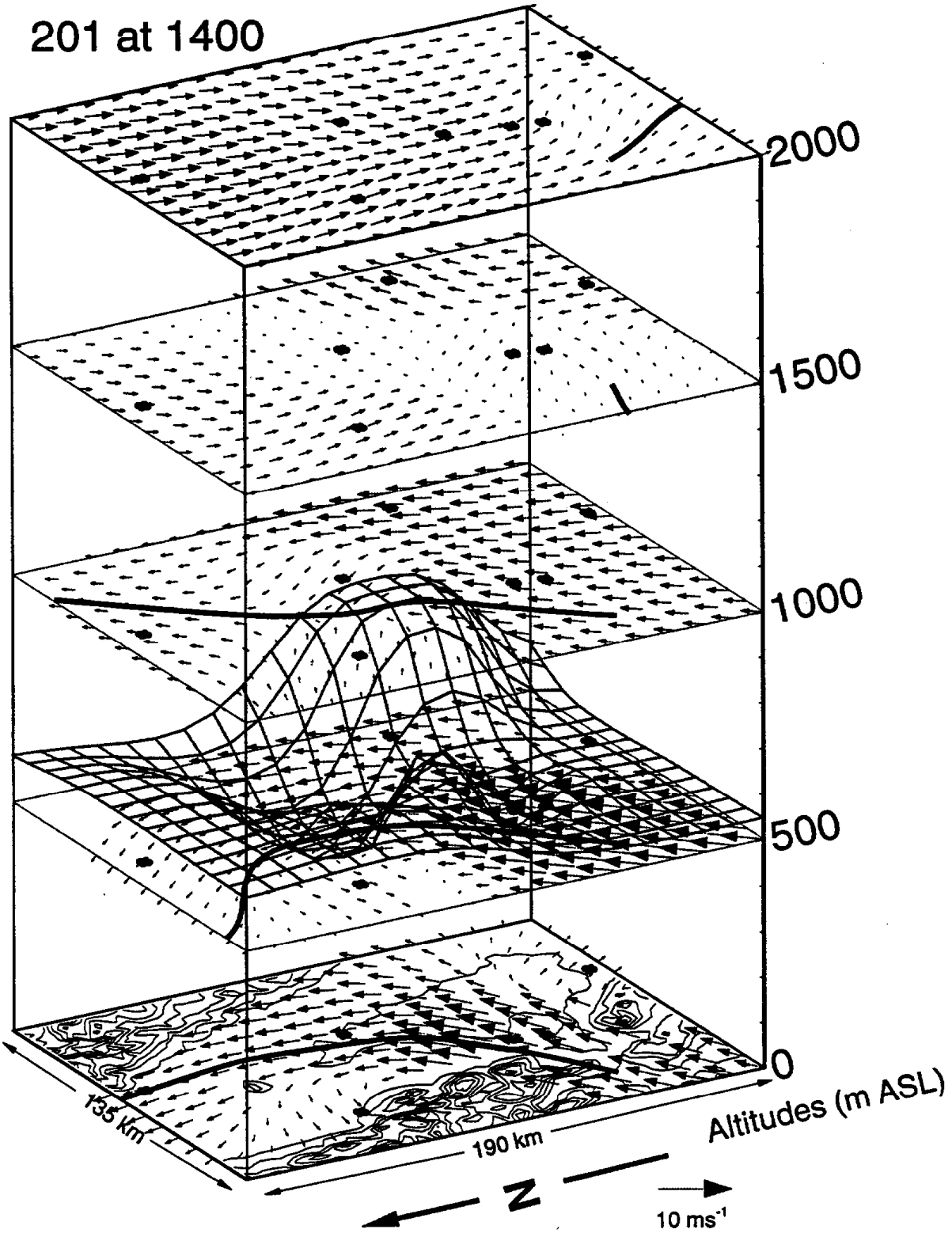

201 at 0900
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

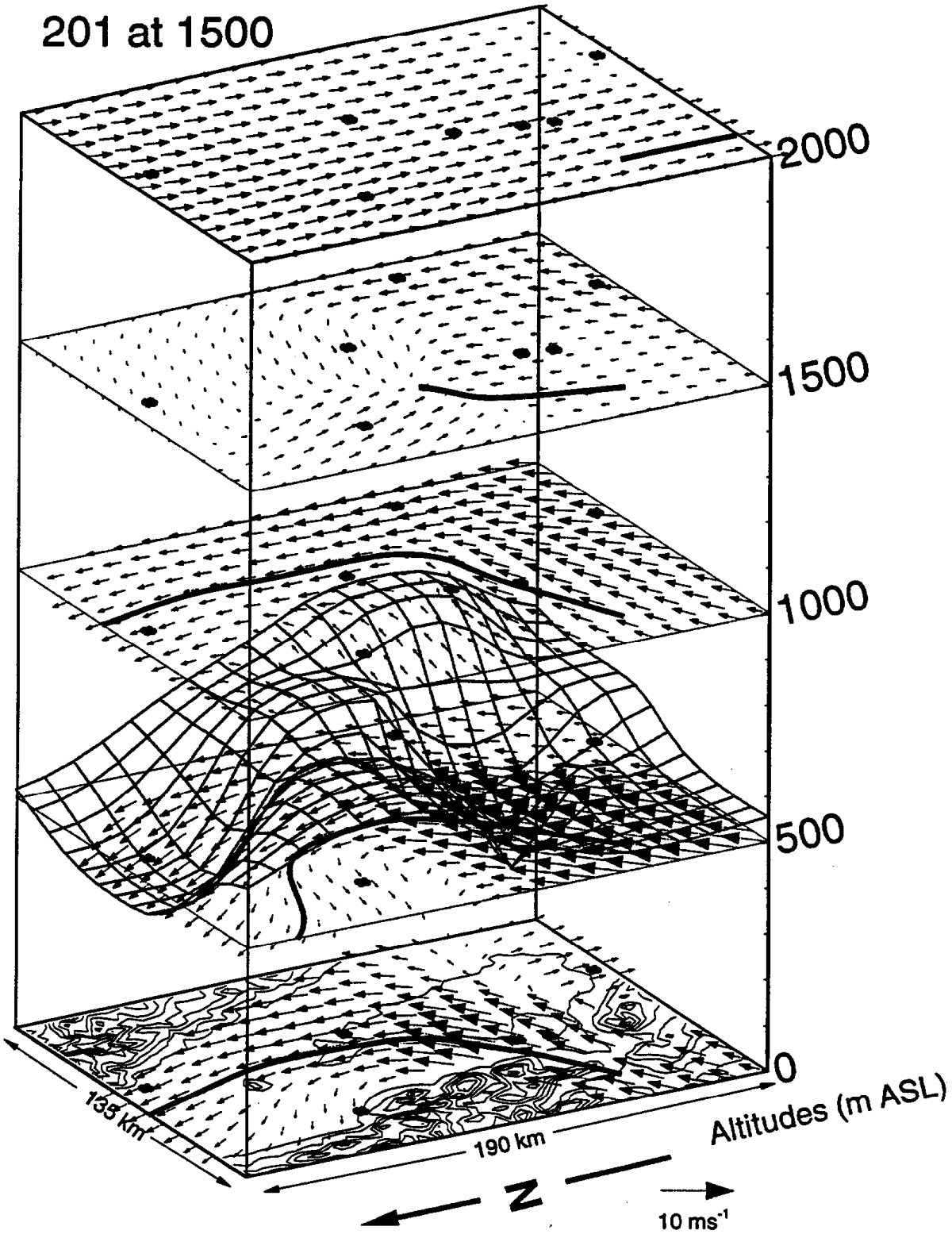

201 at 1000
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

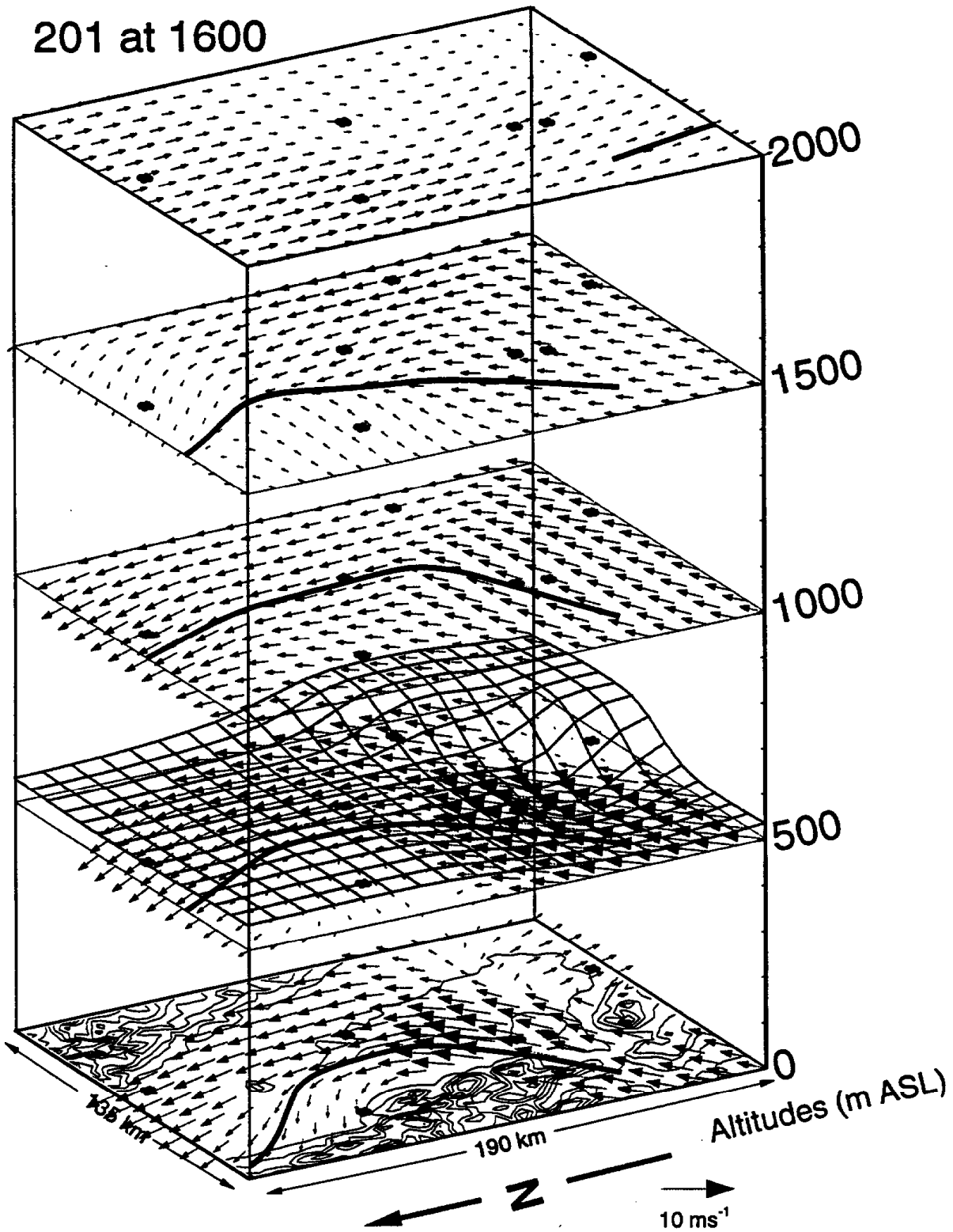

201 at 1100
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

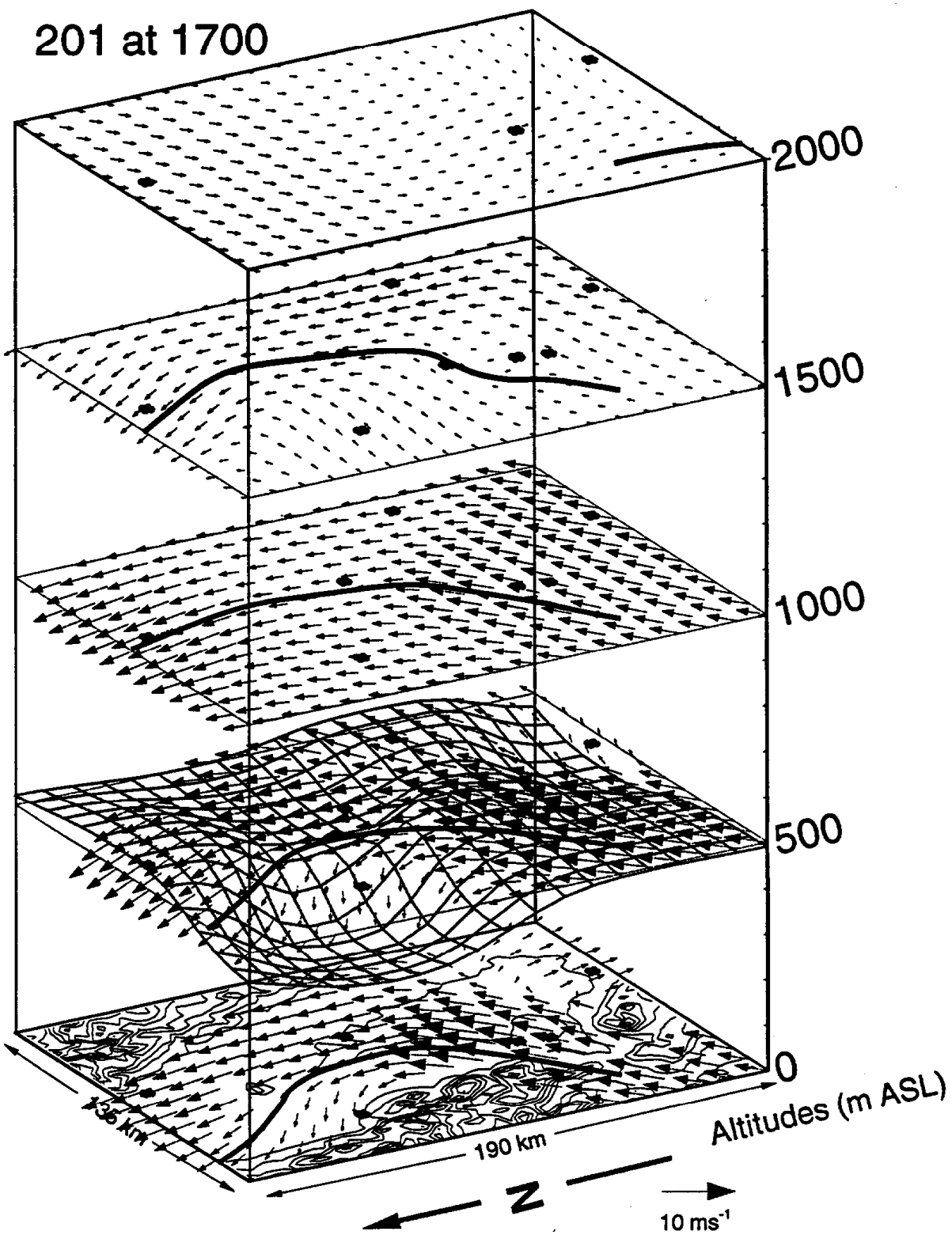

201 at 1200
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

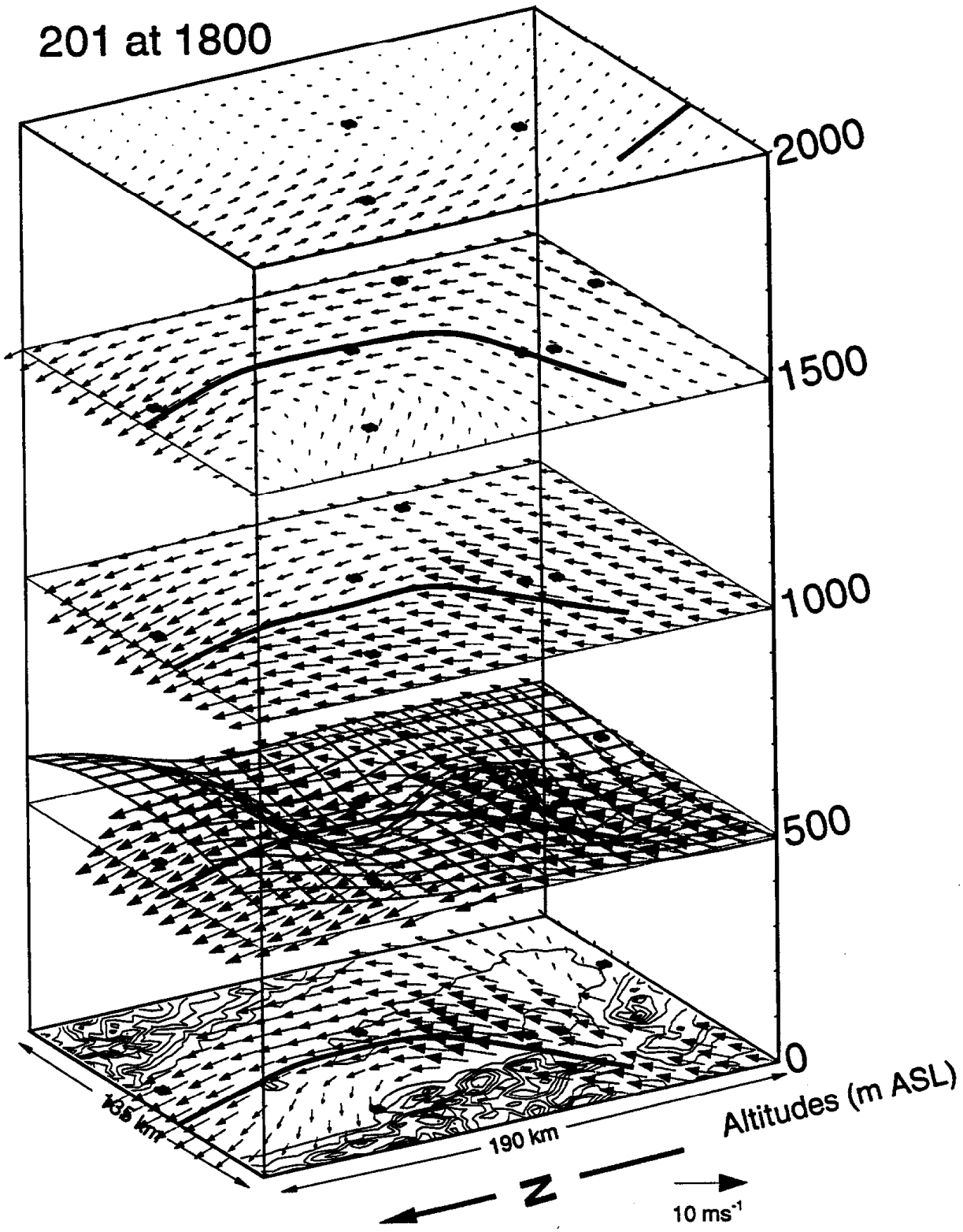

201 at 1300
2000
1500
1000
500
0
Altitudes (m ASL)
155 km
190 km
N
10 ms-1

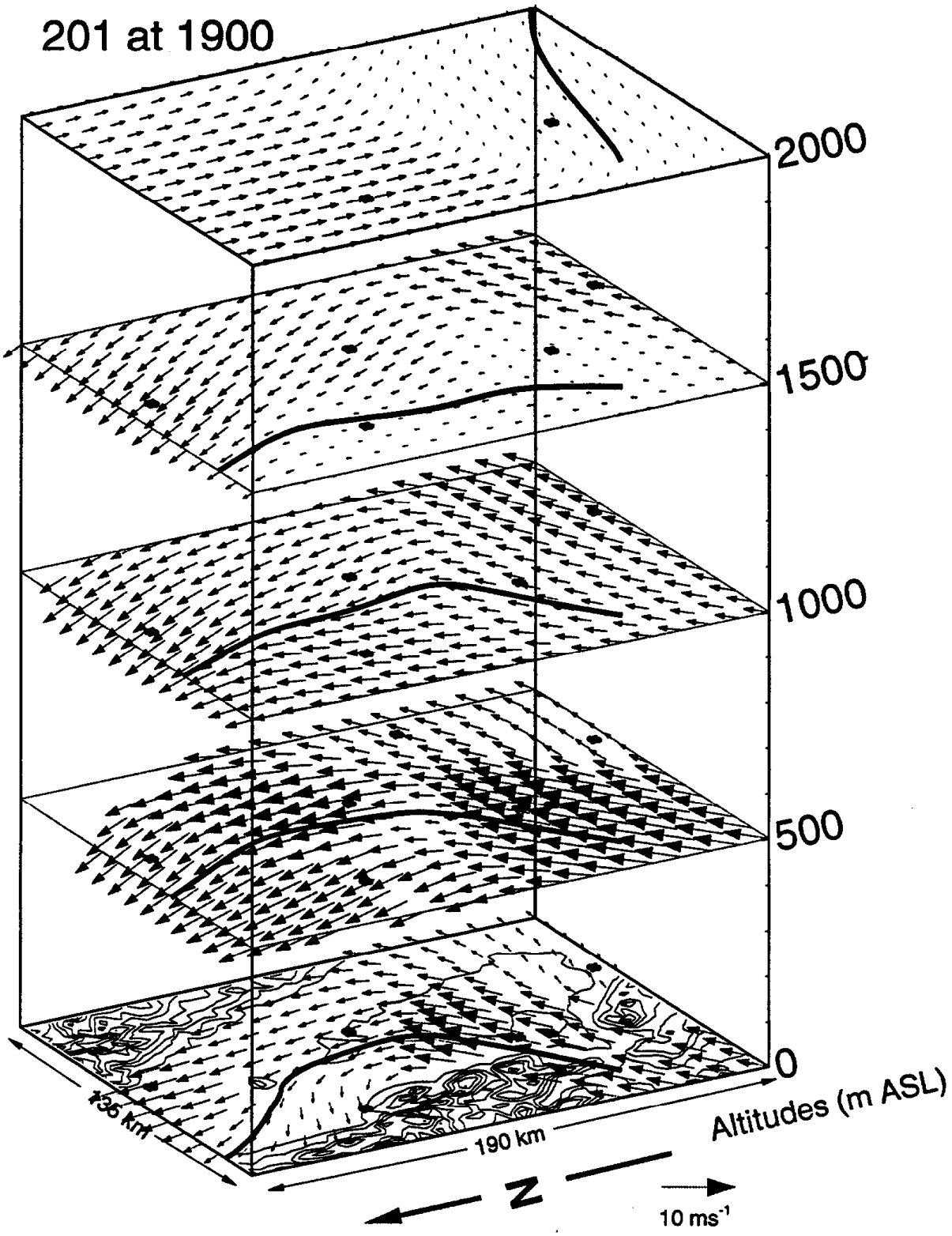

201 at 1400
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

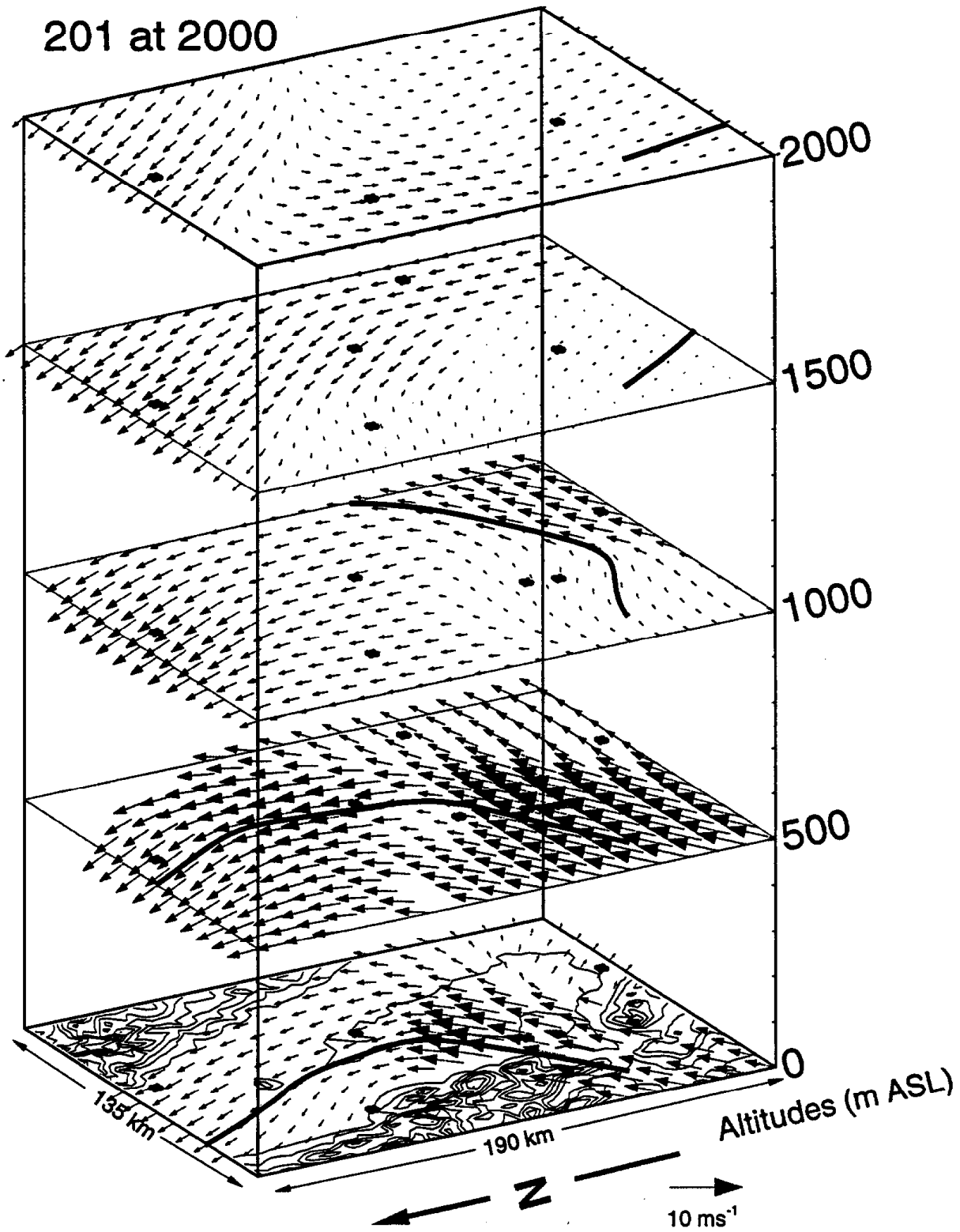

201 at 1500
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

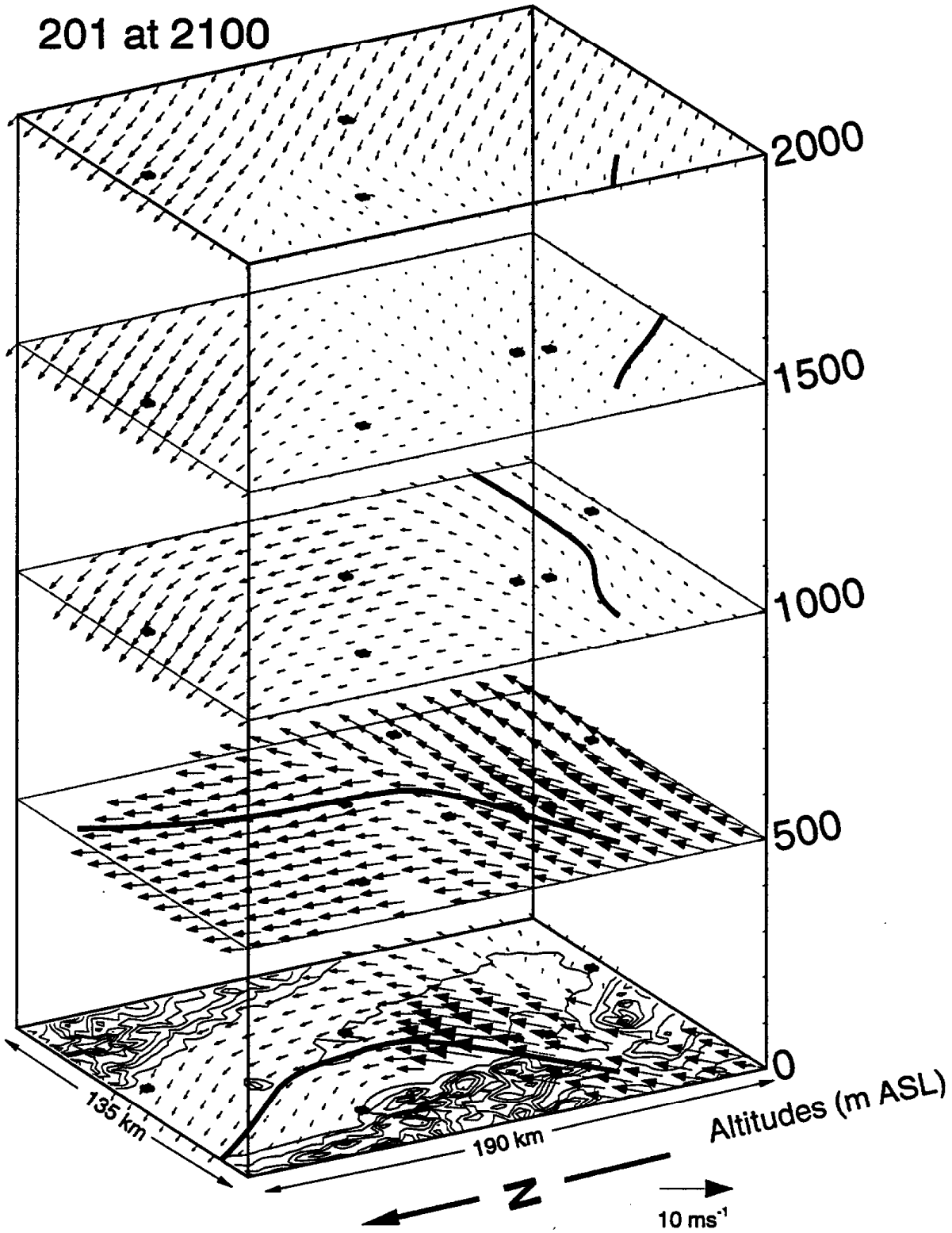

201 at 1600
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

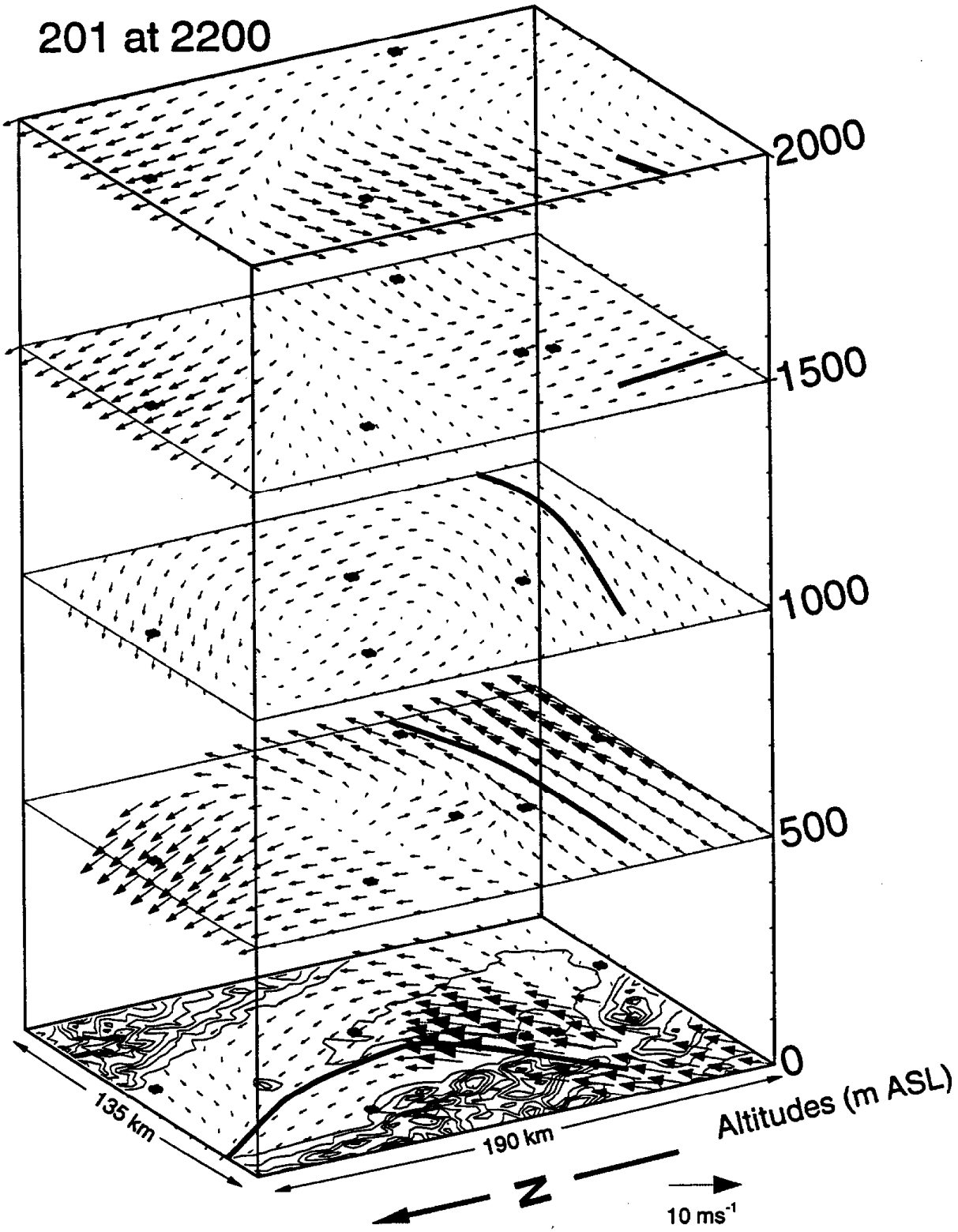

201 at 1700
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

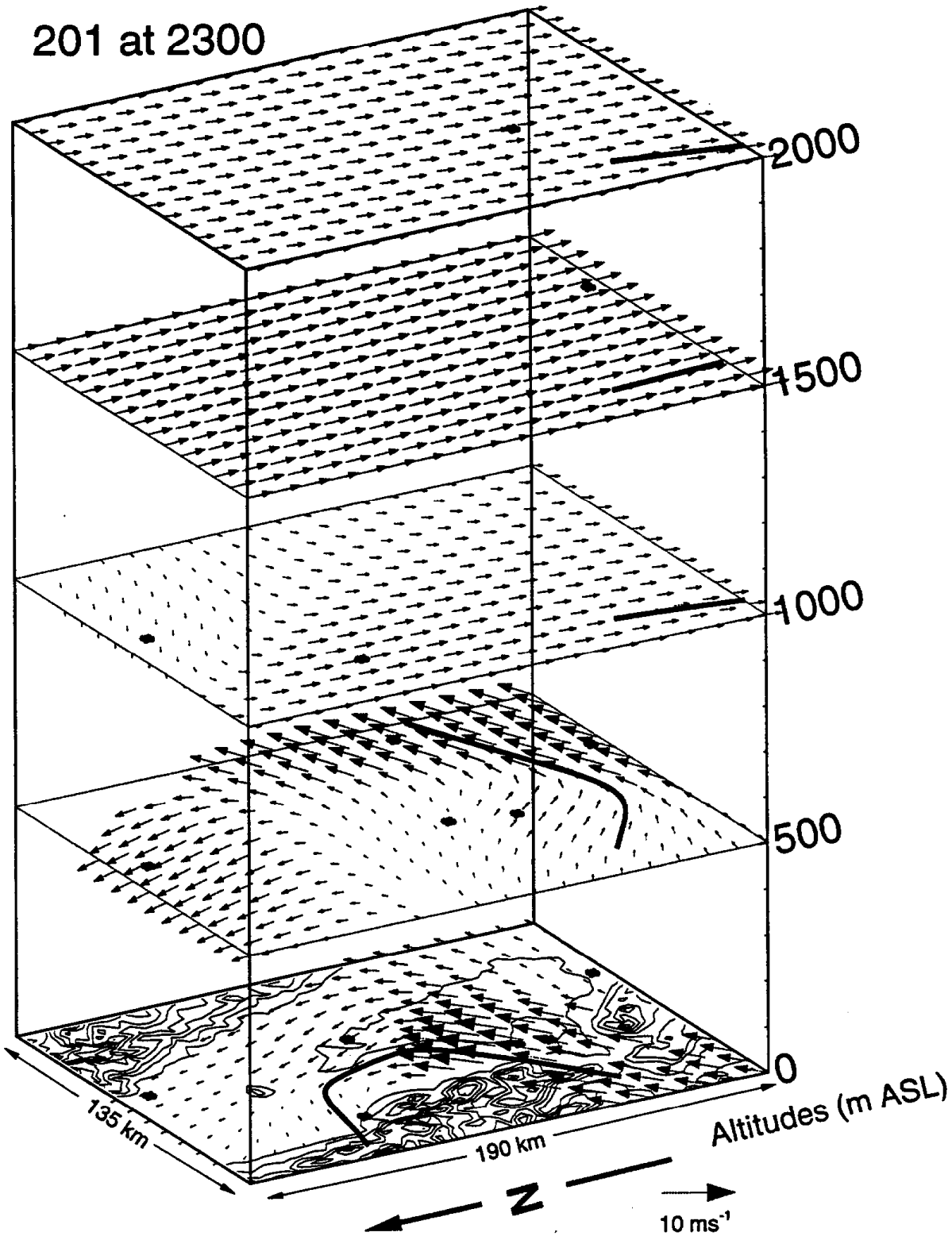

201 at 1800
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1


201 at 1900
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1


201 at 2000
2000
1500
1000
500
0
Altitudes (m ASL)
133 km
190 km
N
10 ms-1

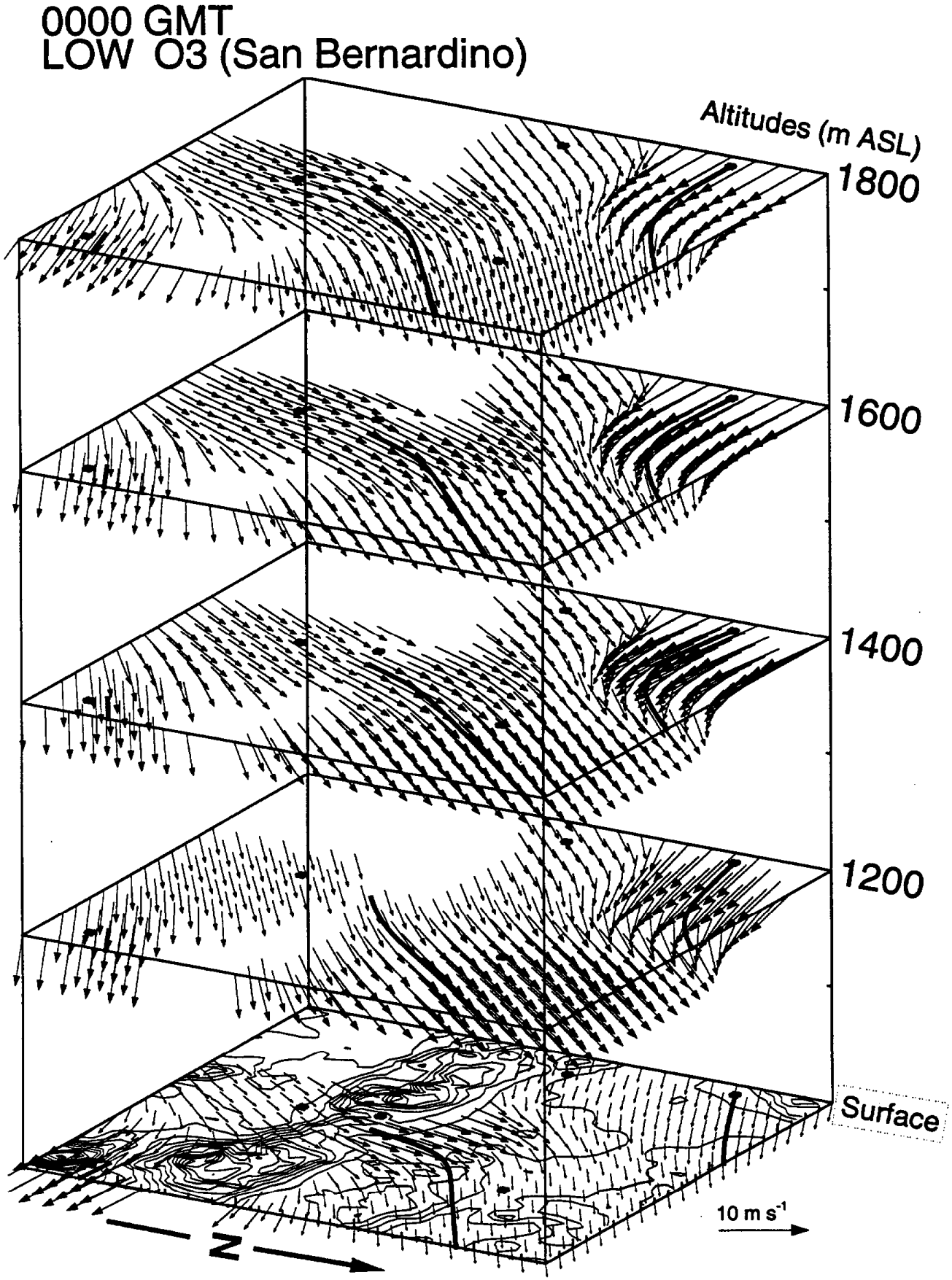

201 at 2100
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms⁻¹

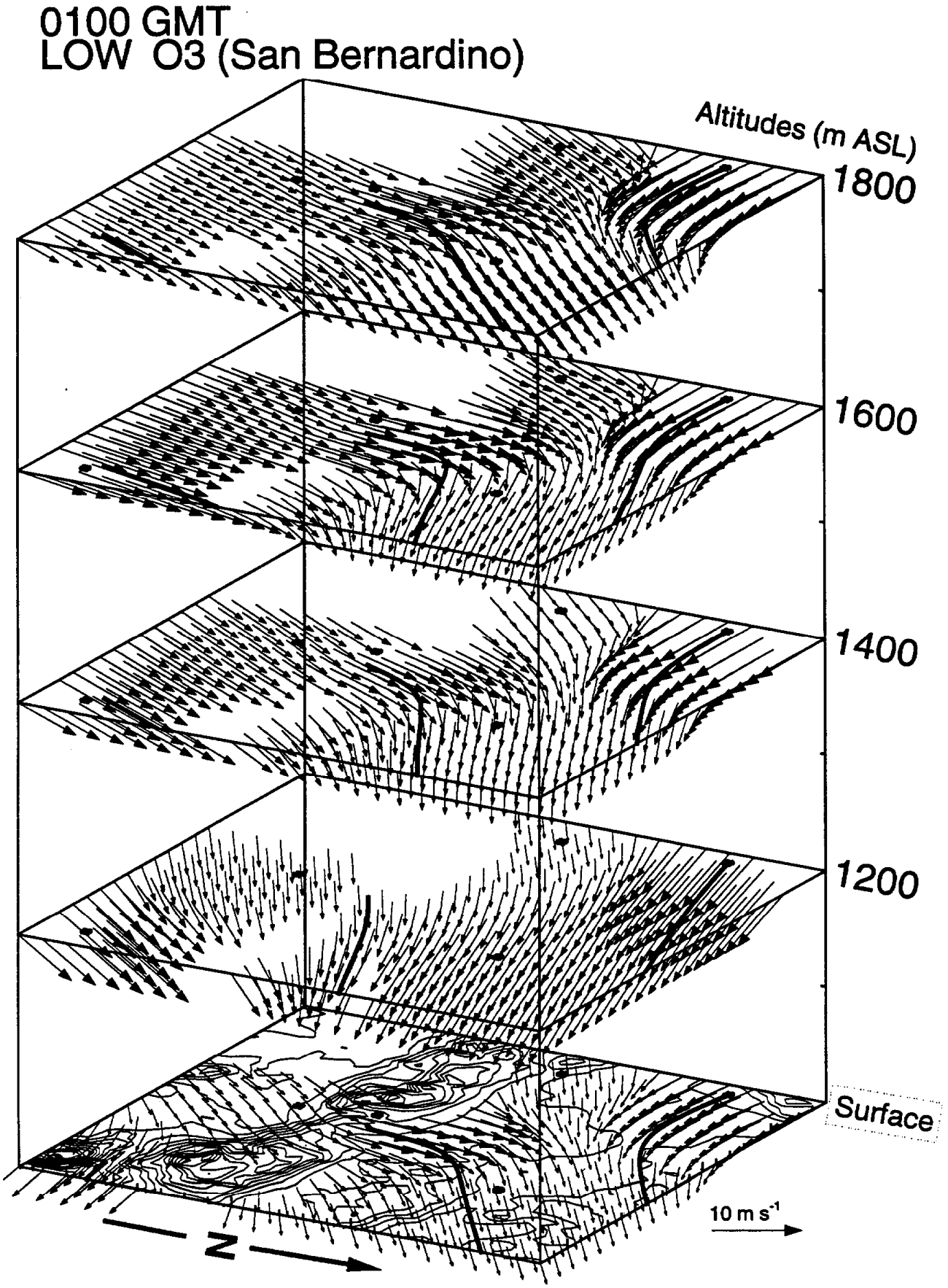

201 at 2200
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms-1

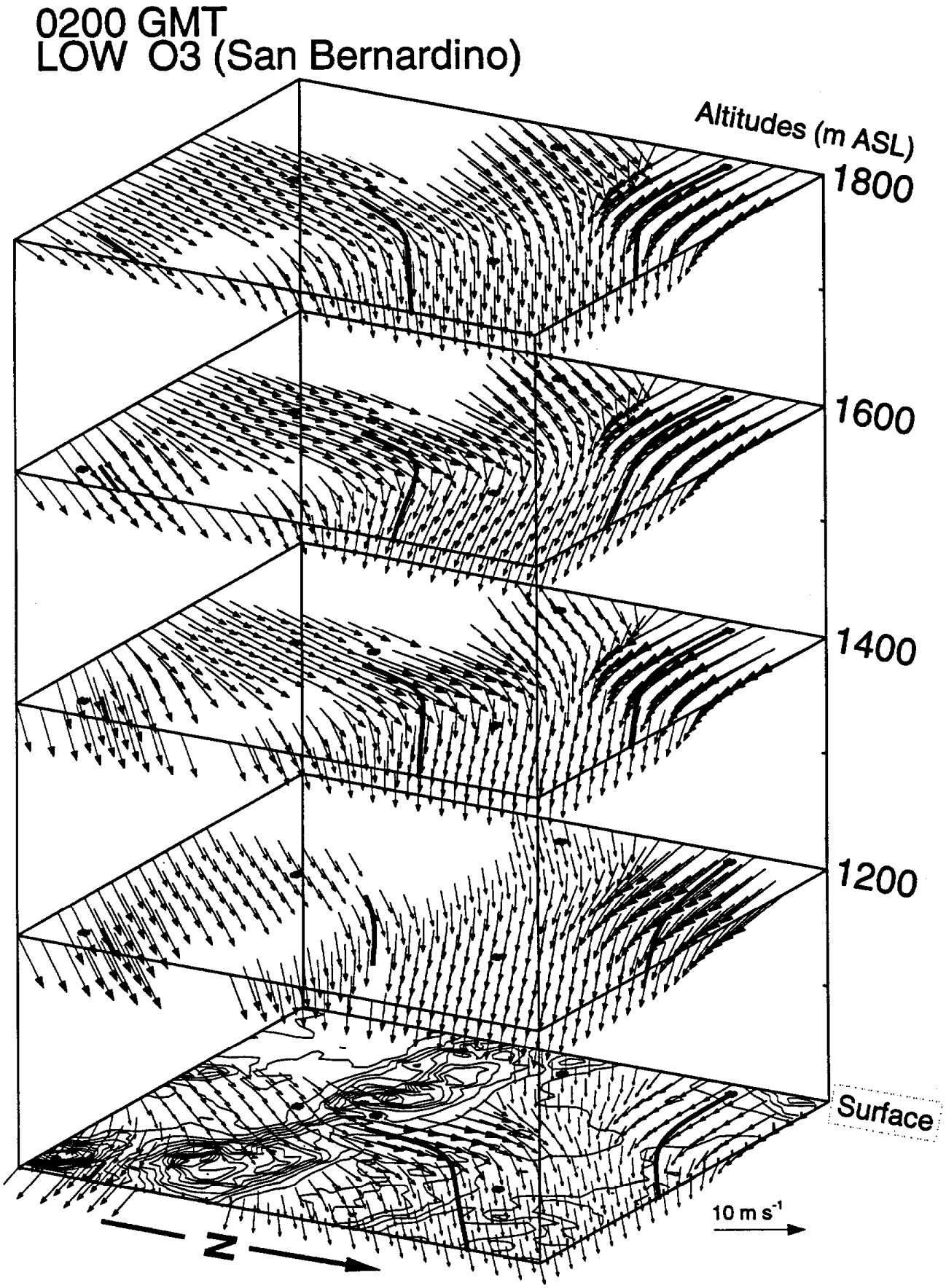

201 at 2300
2000
1500
1000
500
0
Altitudes (m ASL)
135 km
190 km
N
10 ms⁻¹

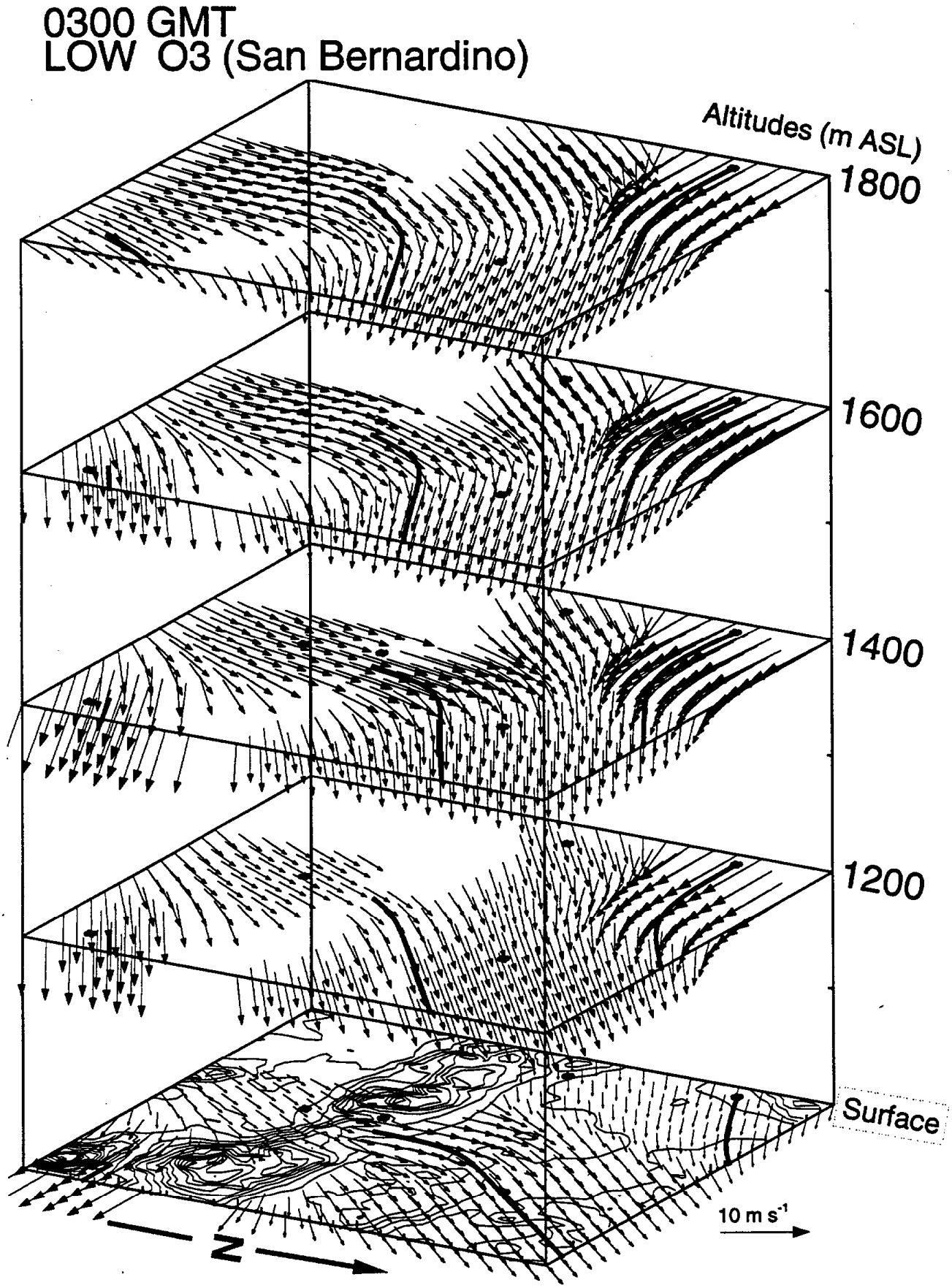
APPENDIX J

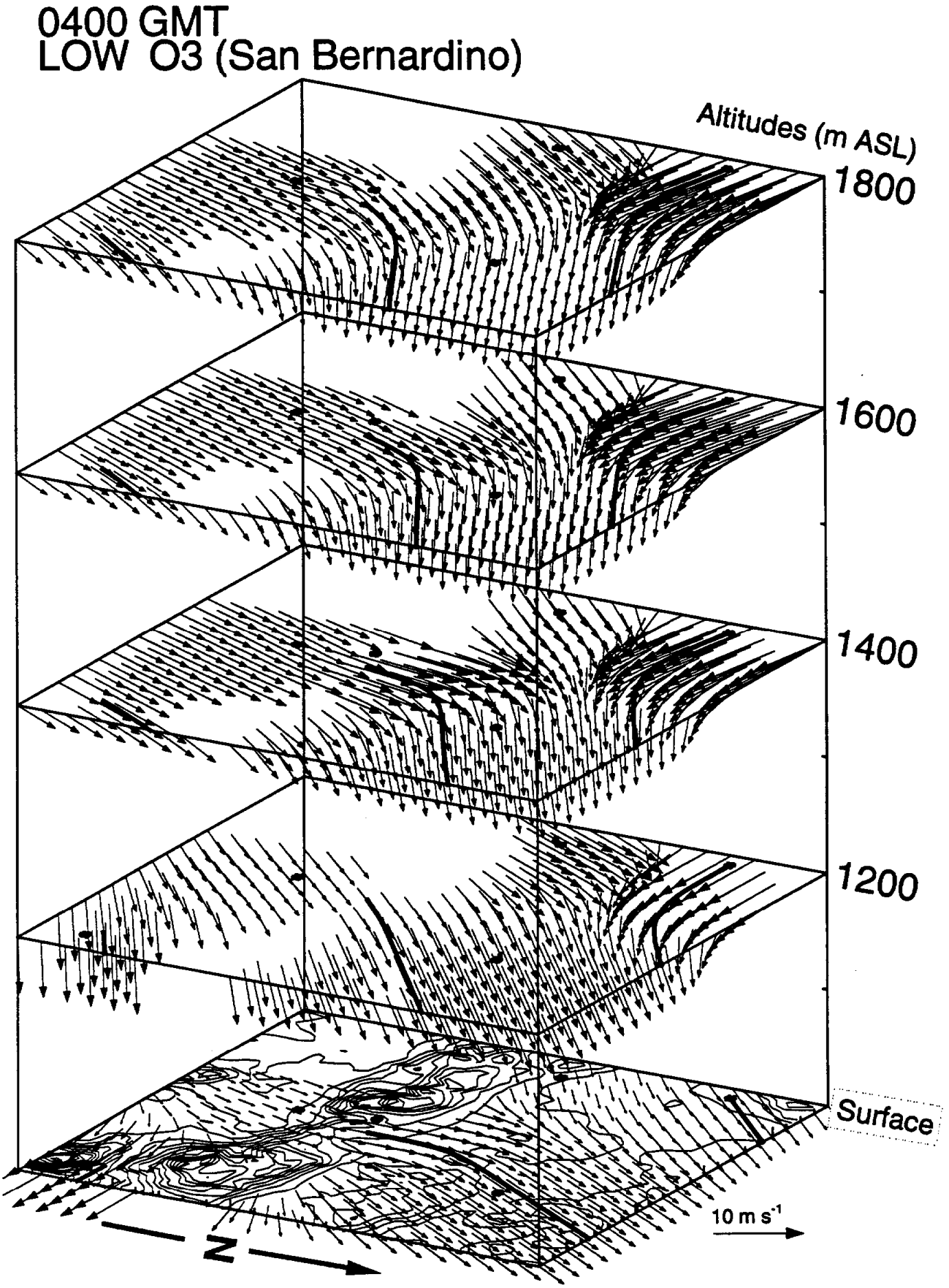
HOURLY INTERPOLATED SCT WIND FIELDS FOR LOW-OZONE DAYS

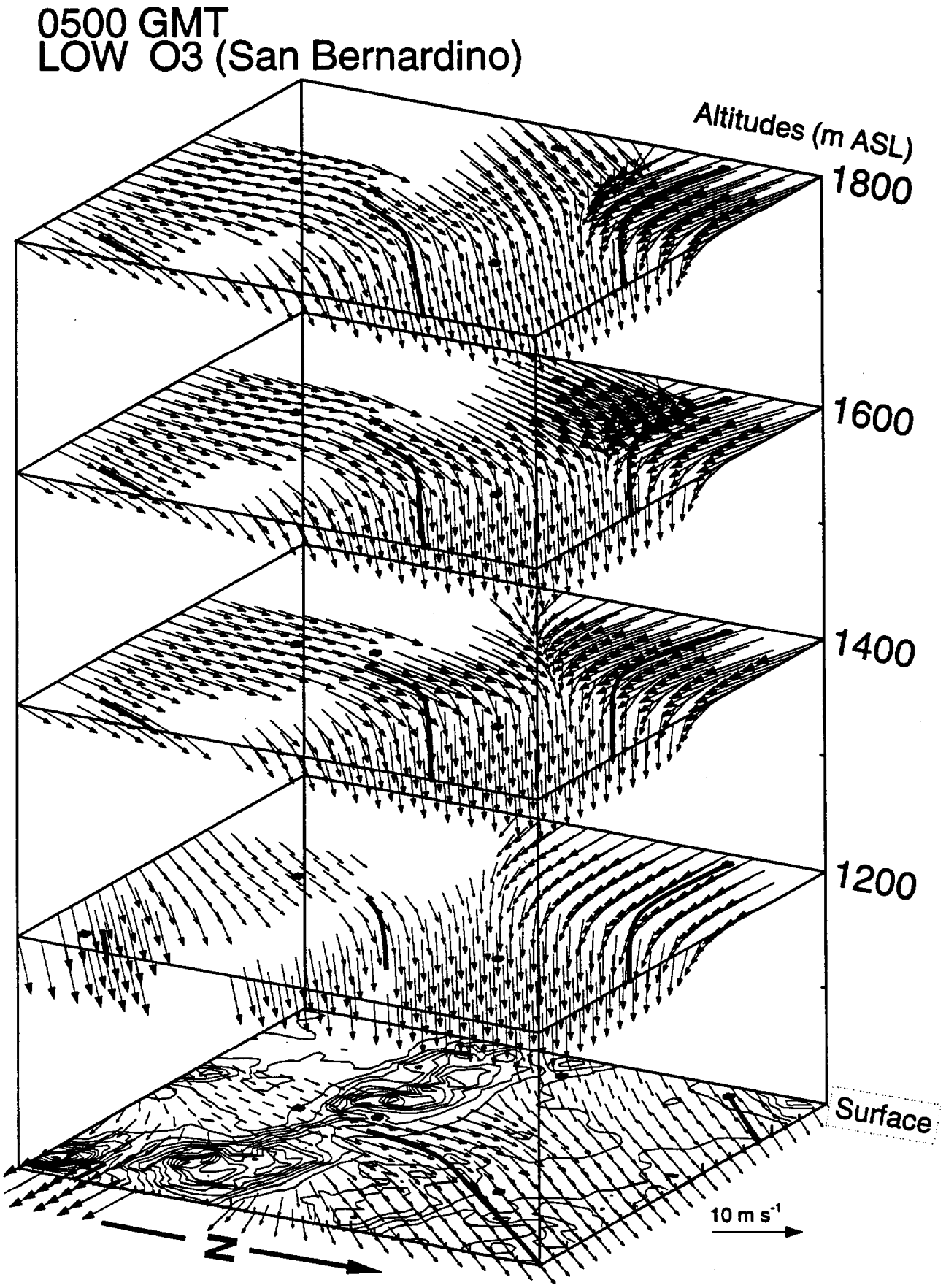

0000 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

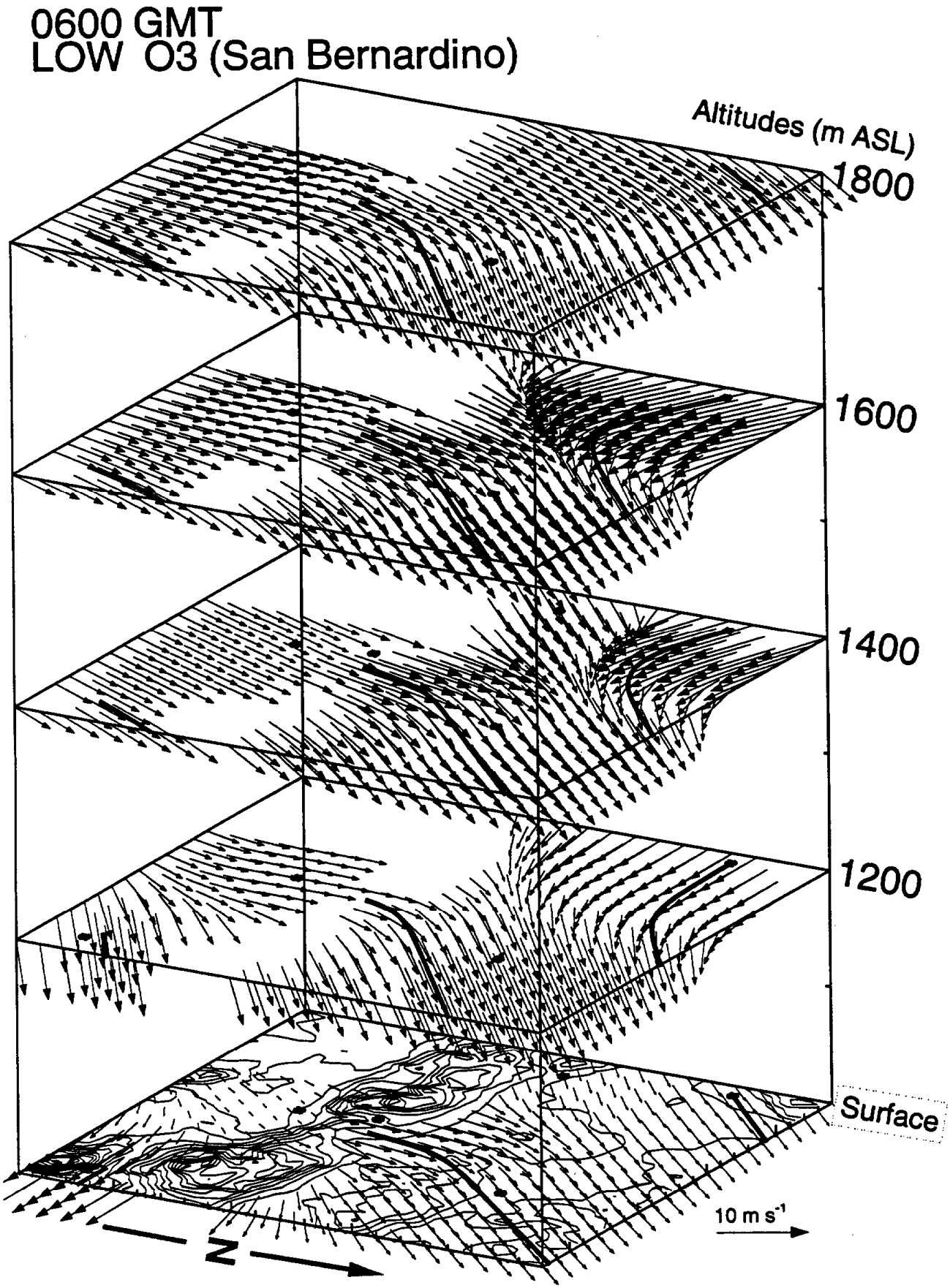

0100 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

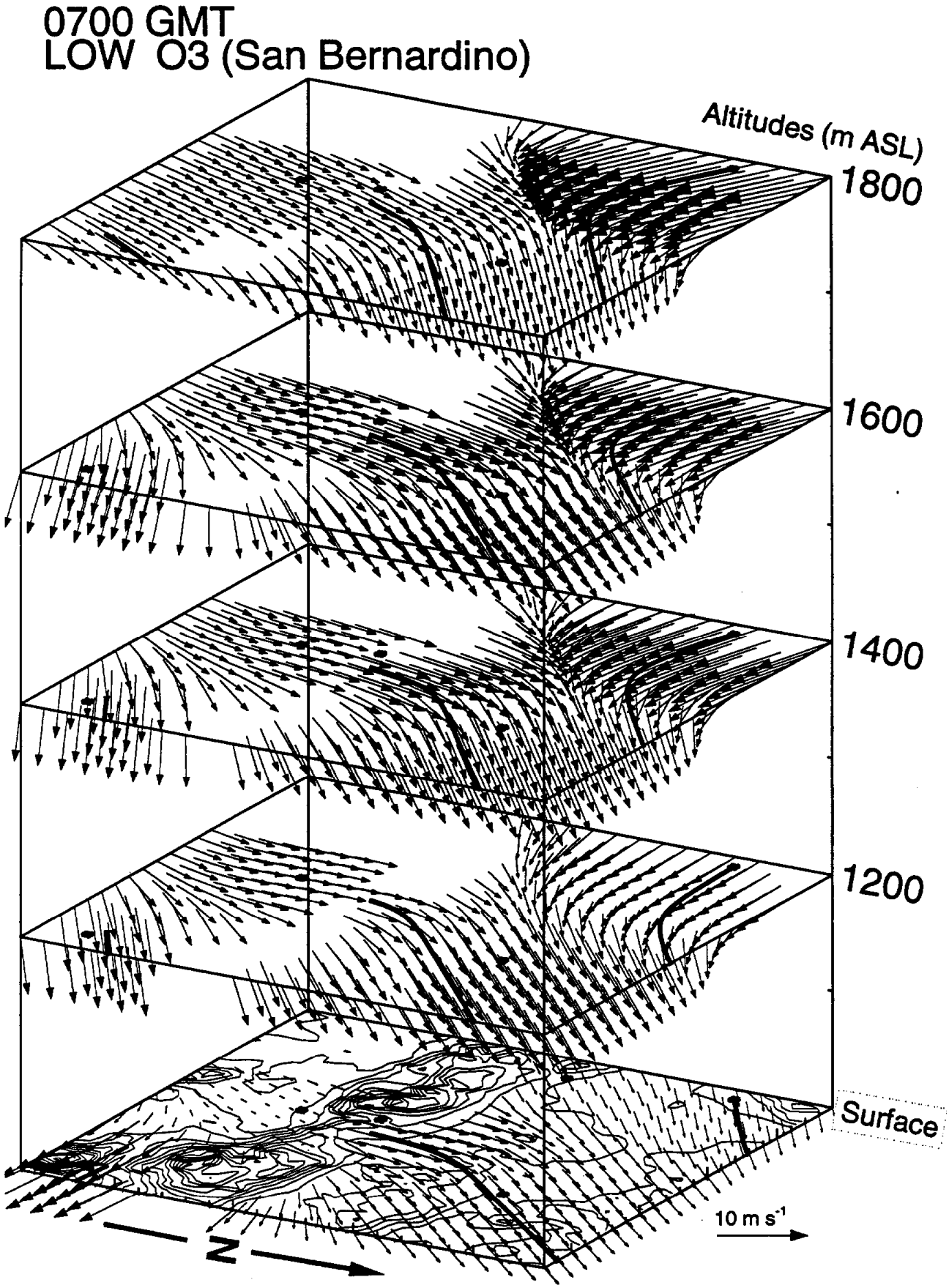

0200 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

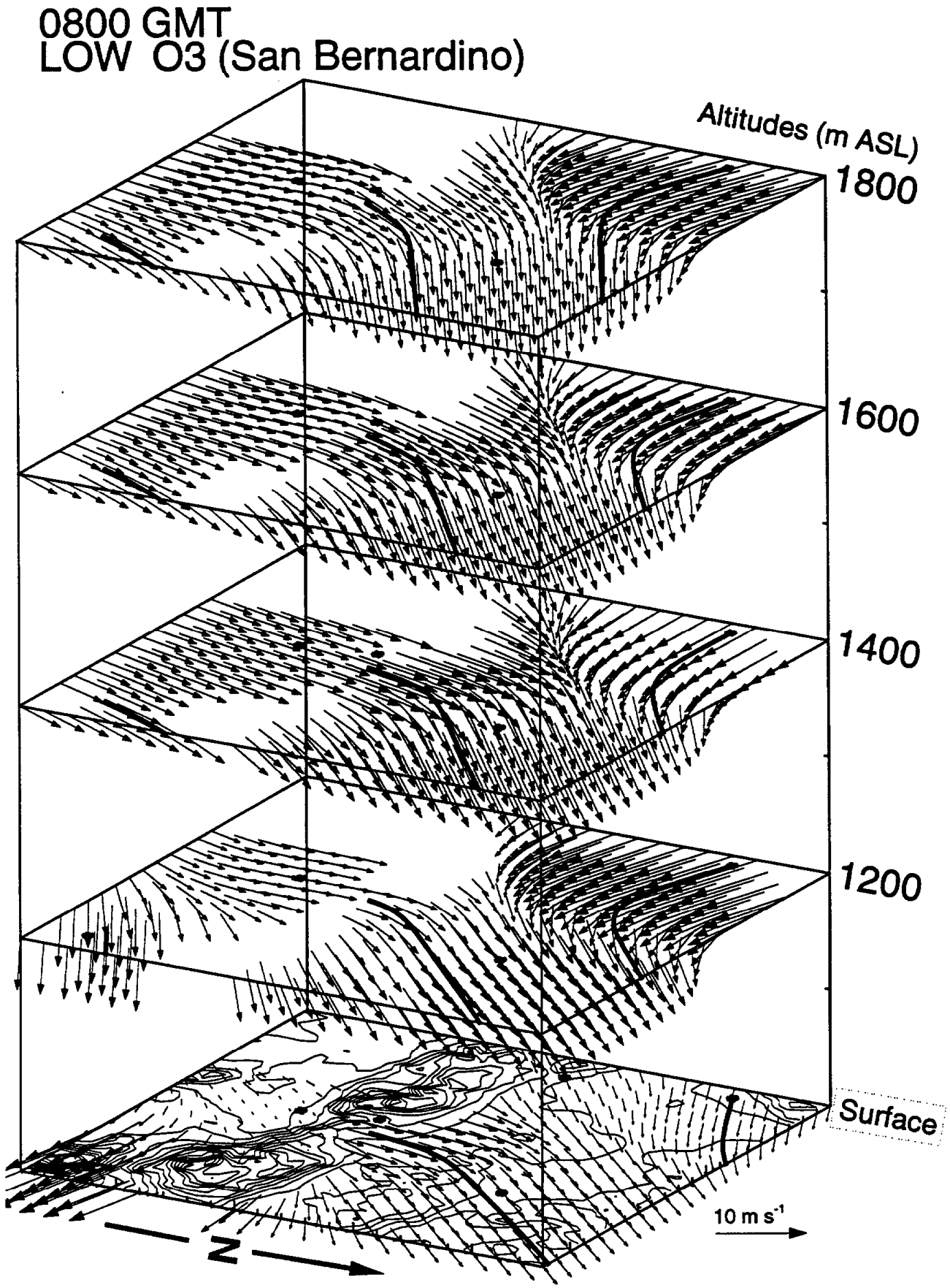

0300 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

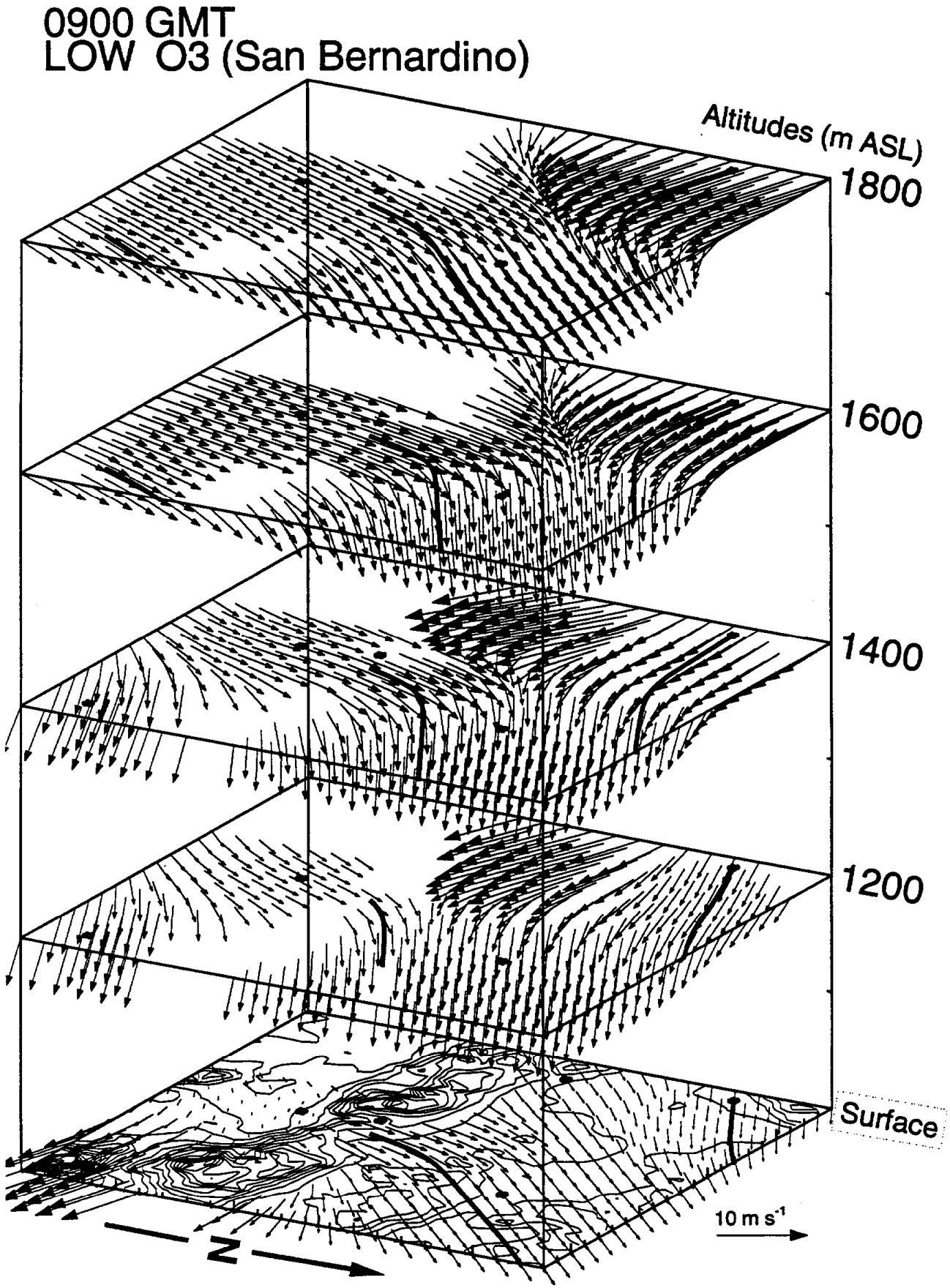

0400 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

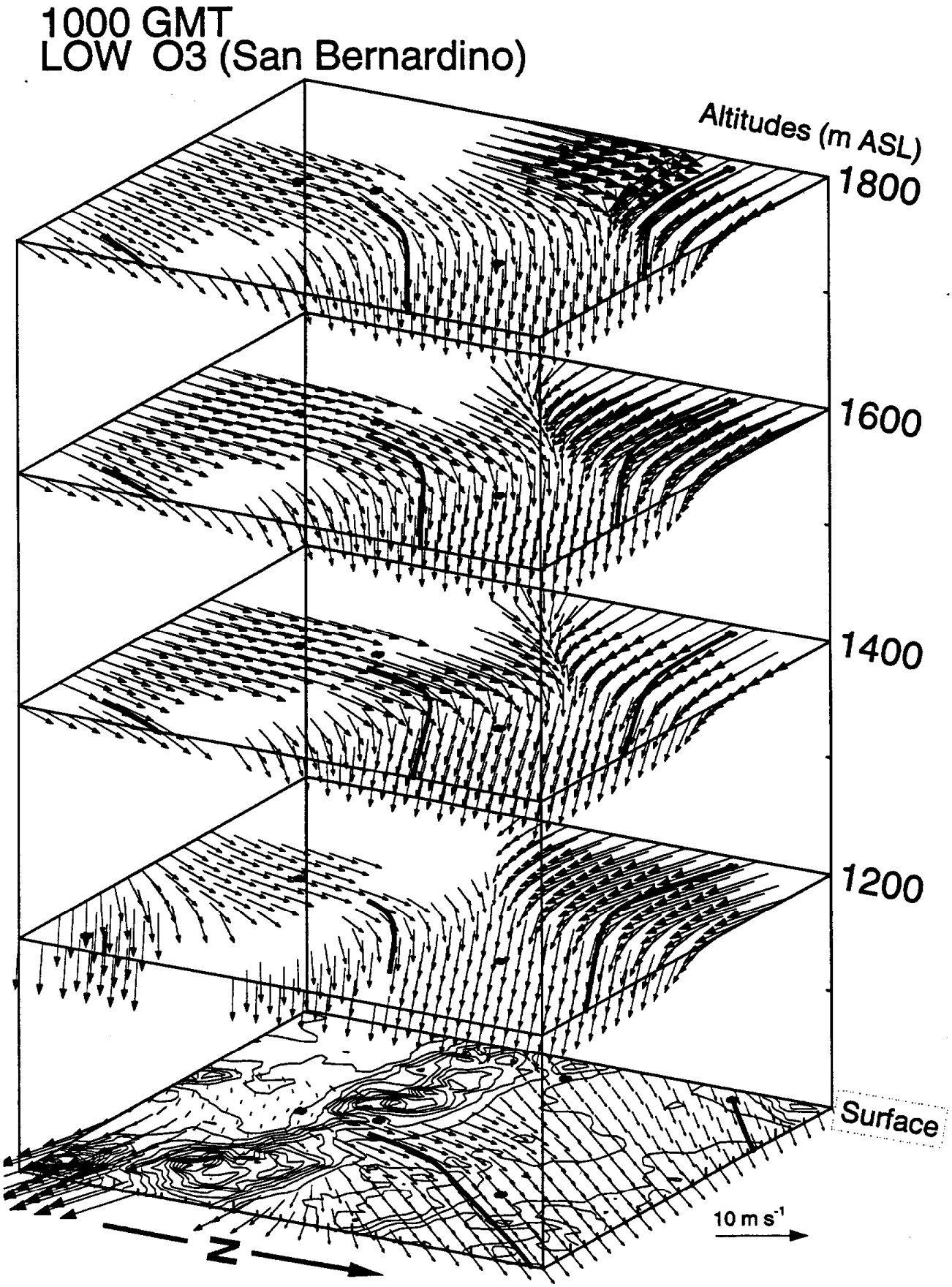

0500 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N


0600 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

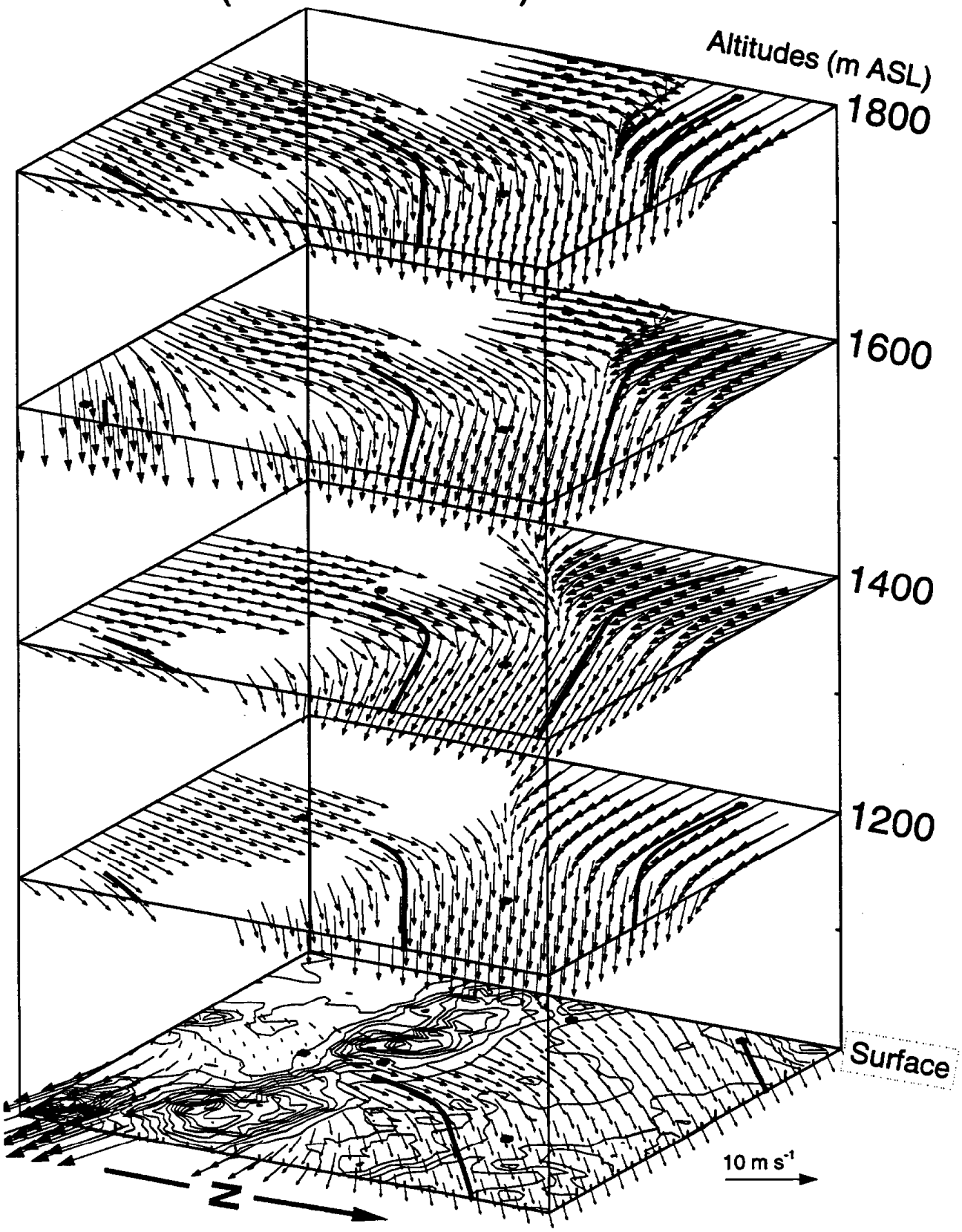

0700 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

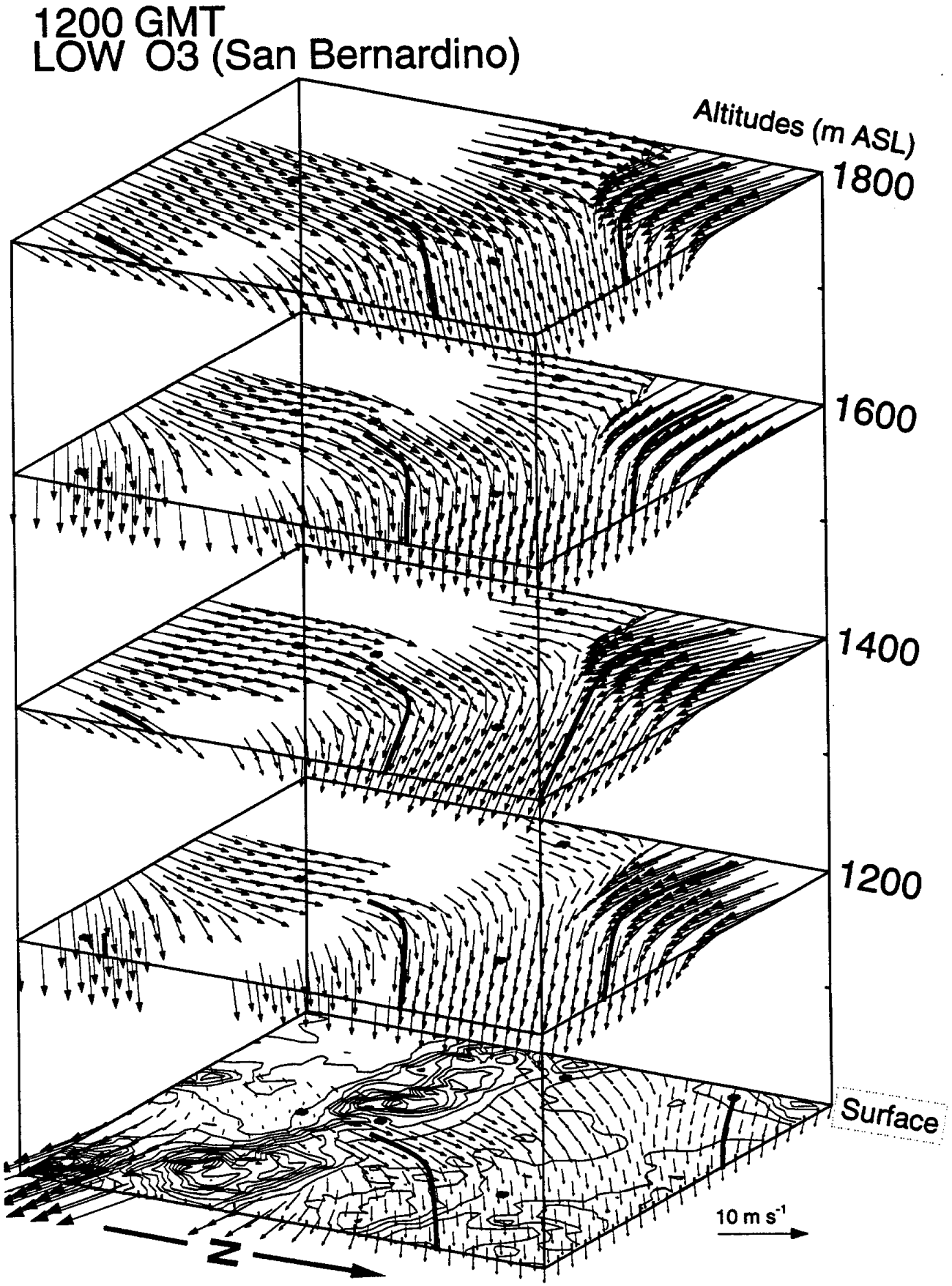

0800 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

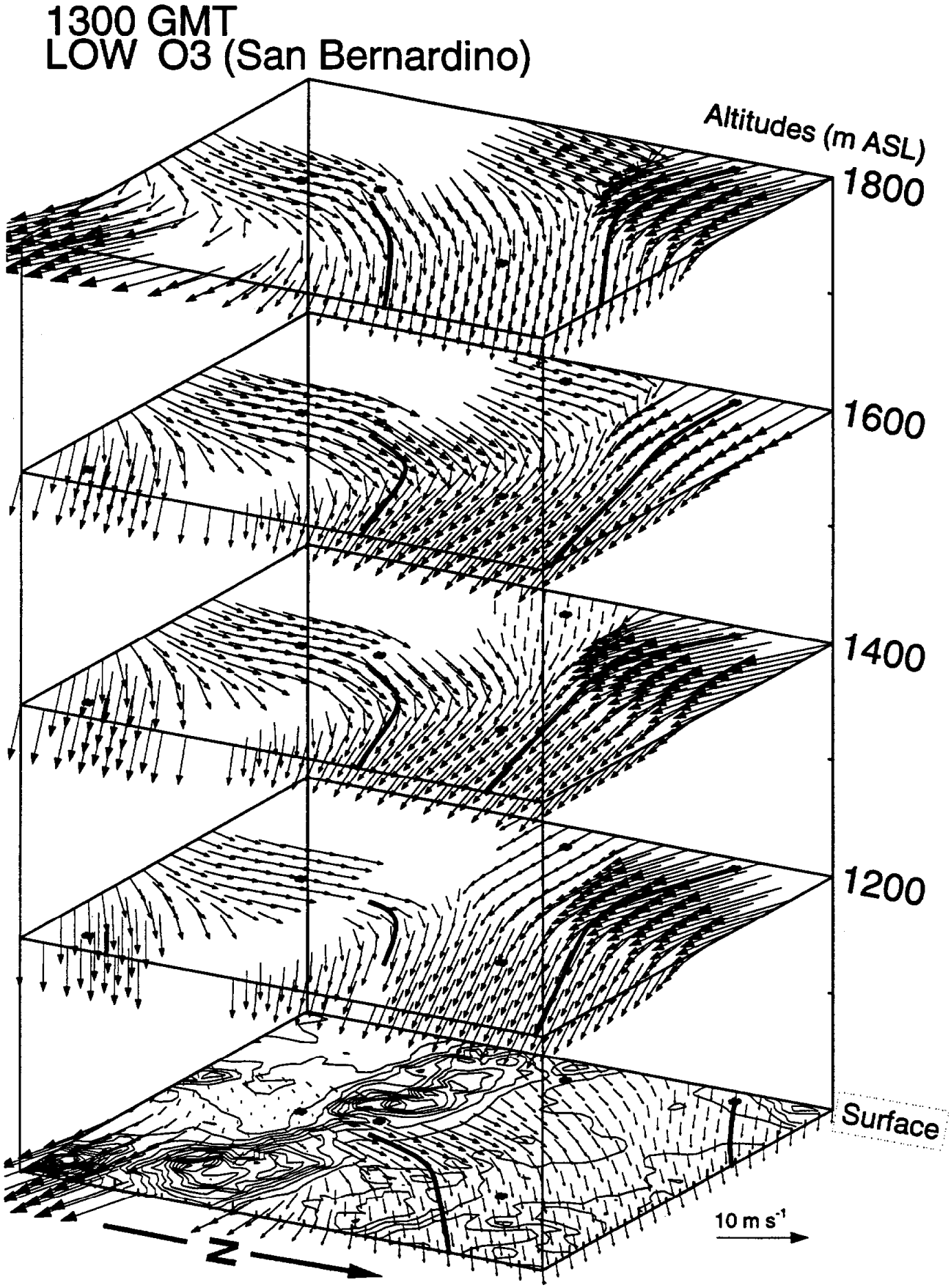

0900 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

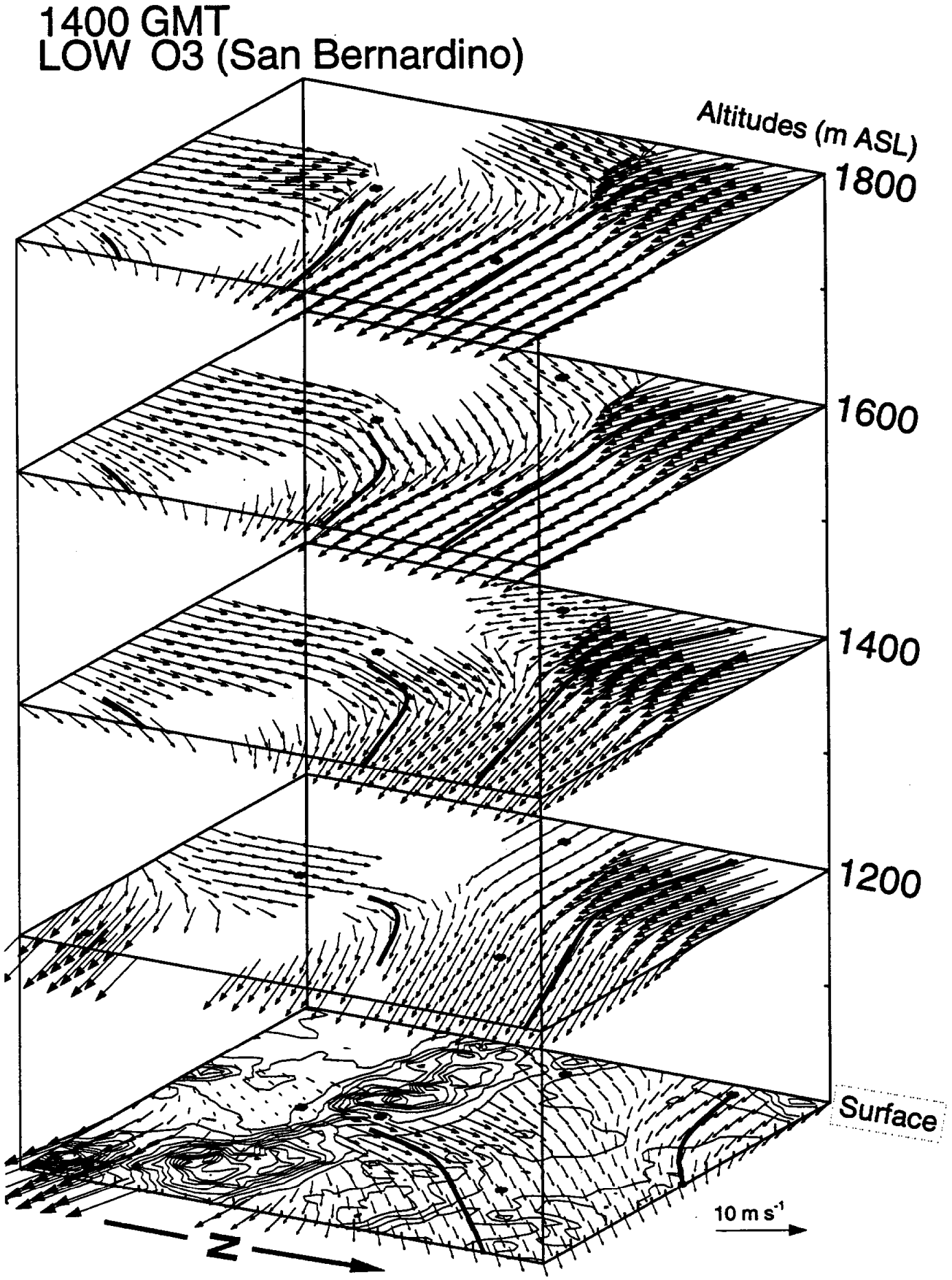

1000 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

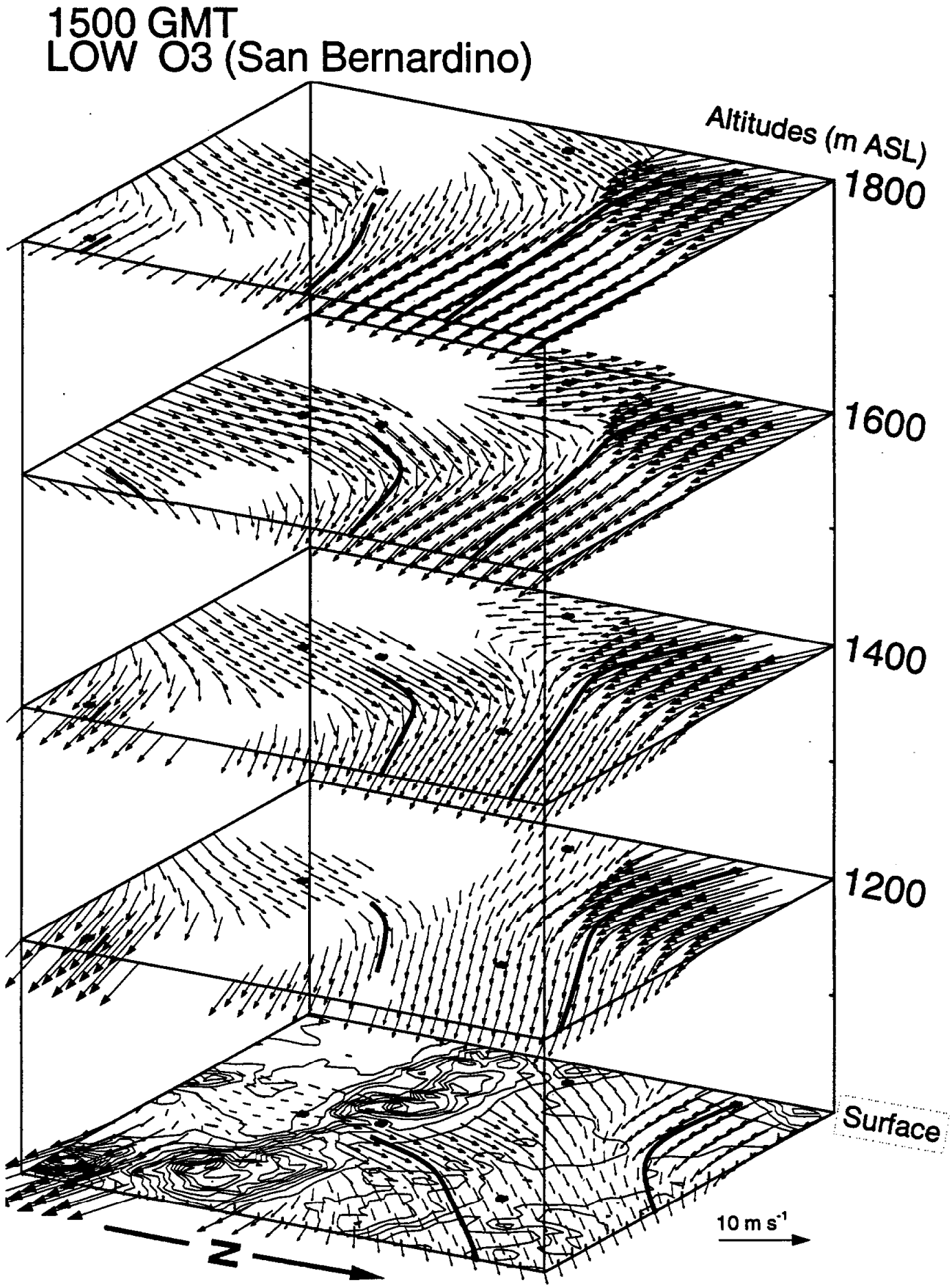
1100 GMT
LOW O3 (San Bernardino)

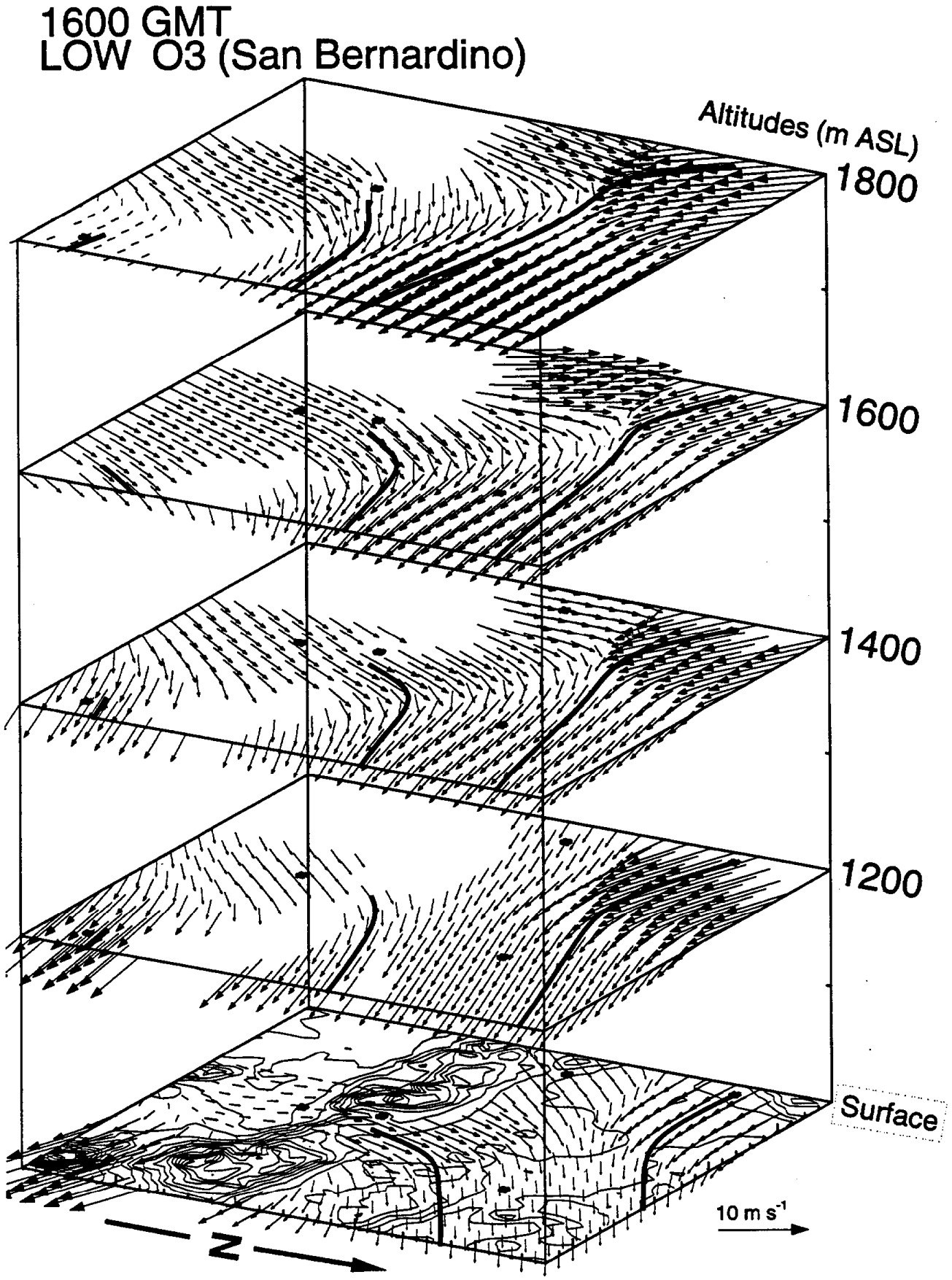


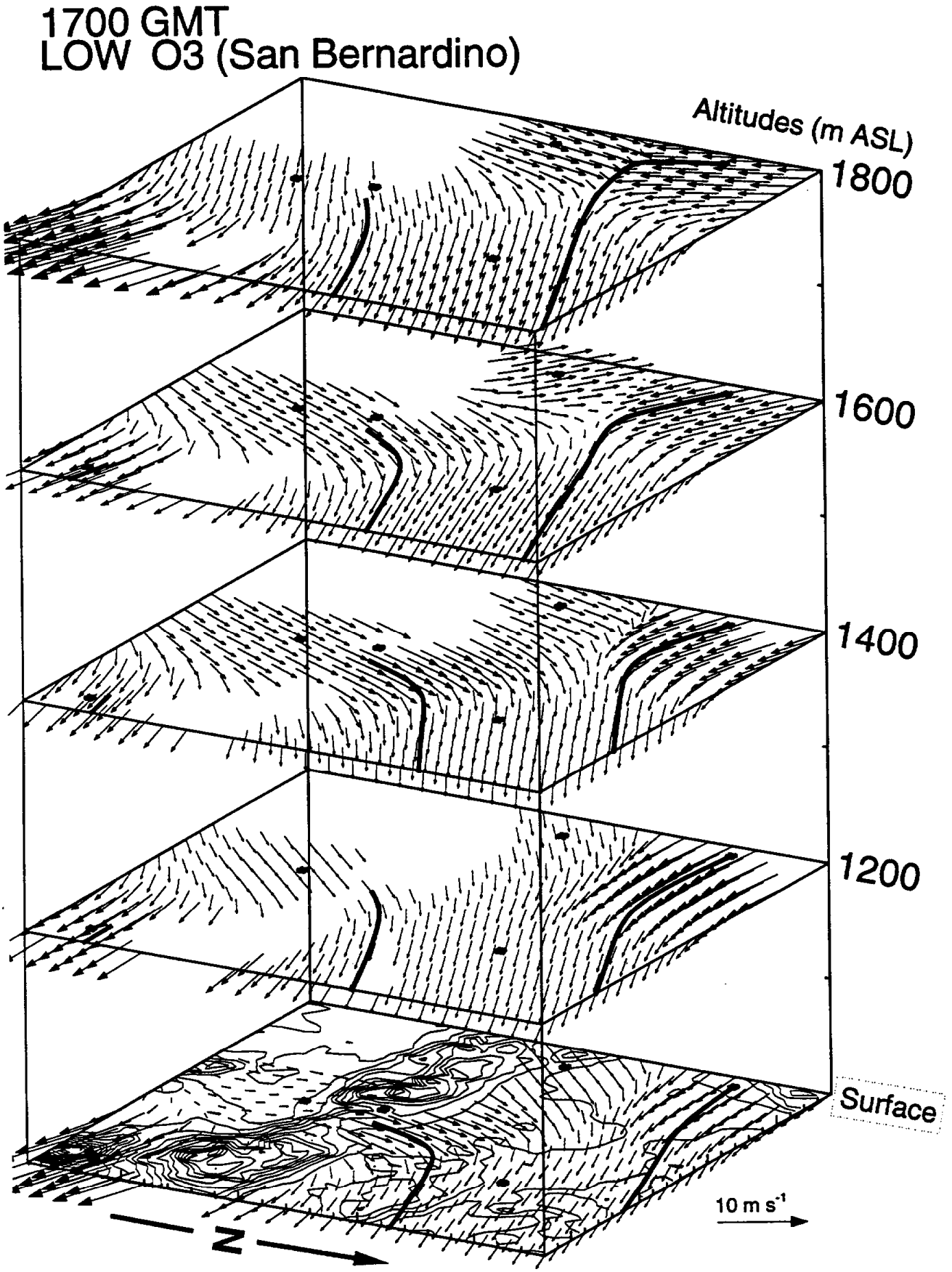

1200 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

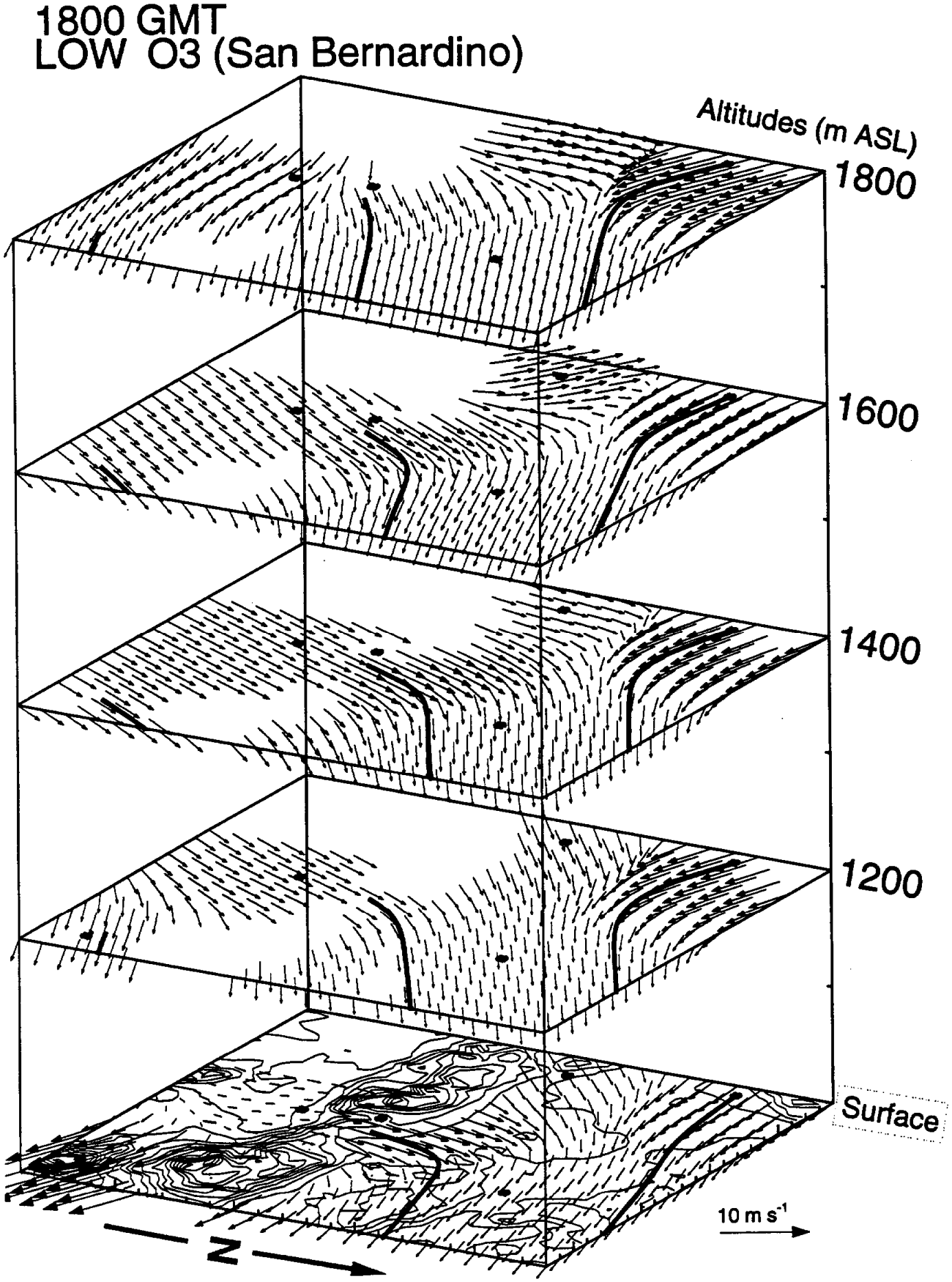

1300 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

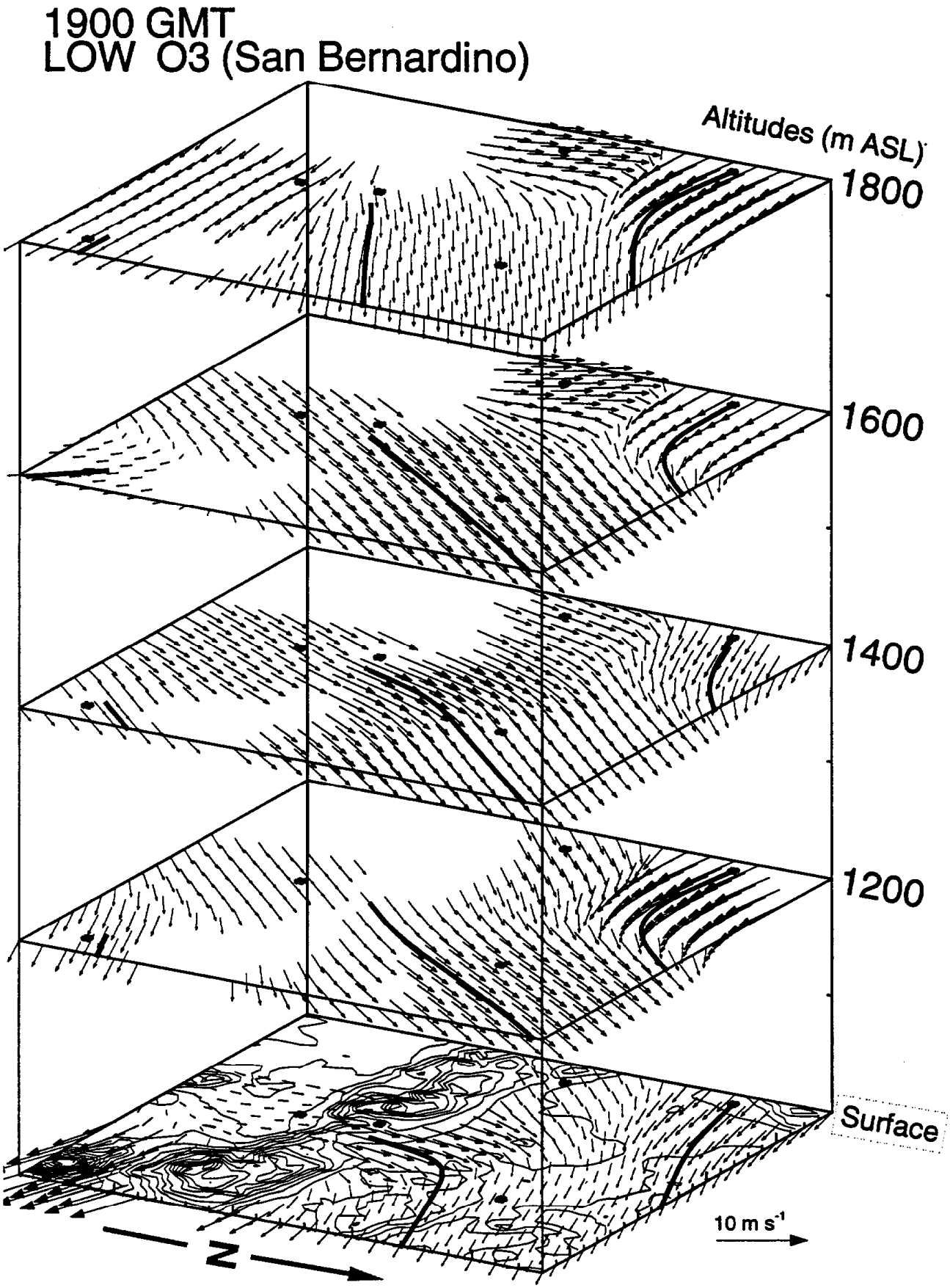

1400 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
Z

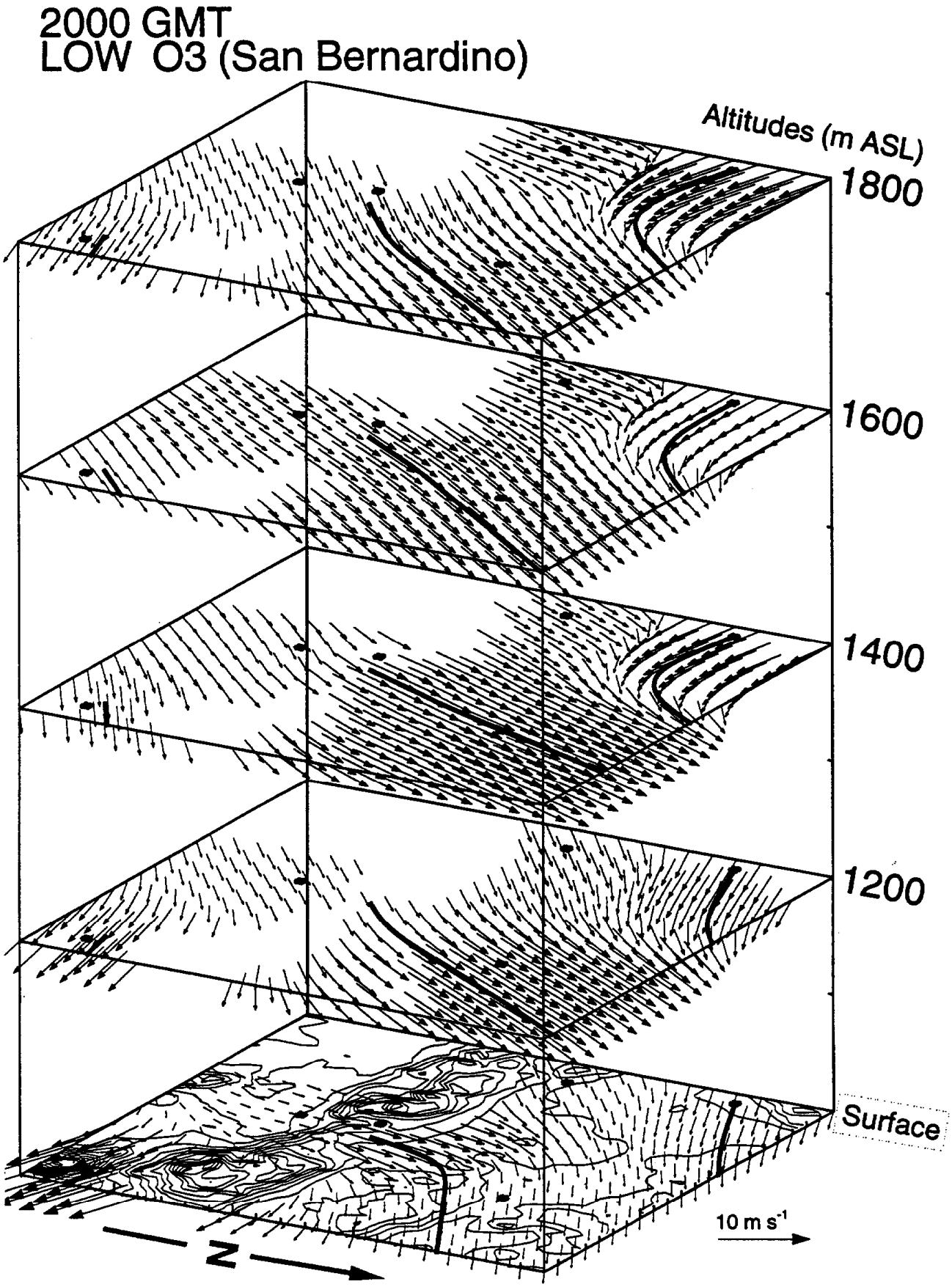

1500 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

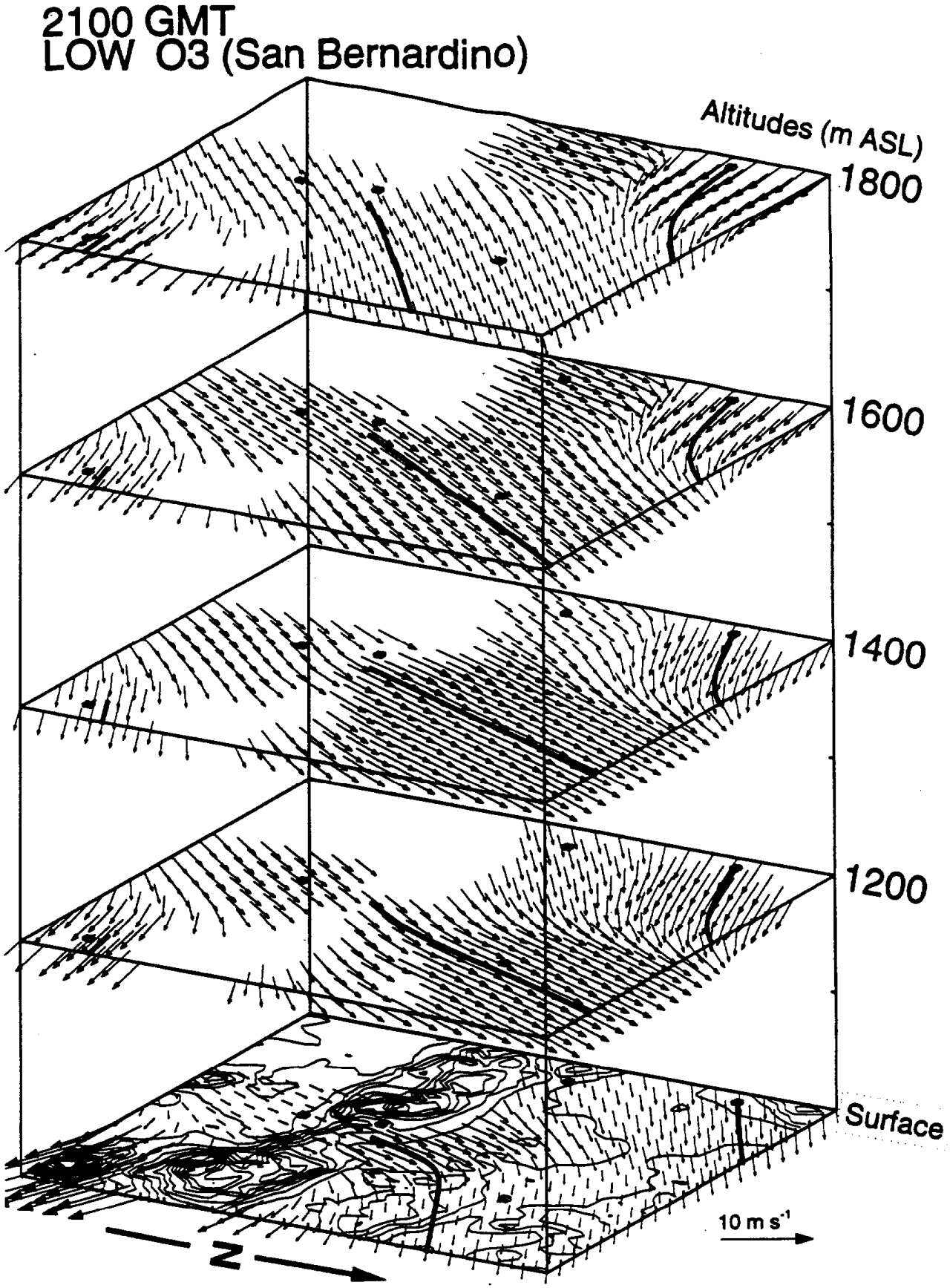

1600 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

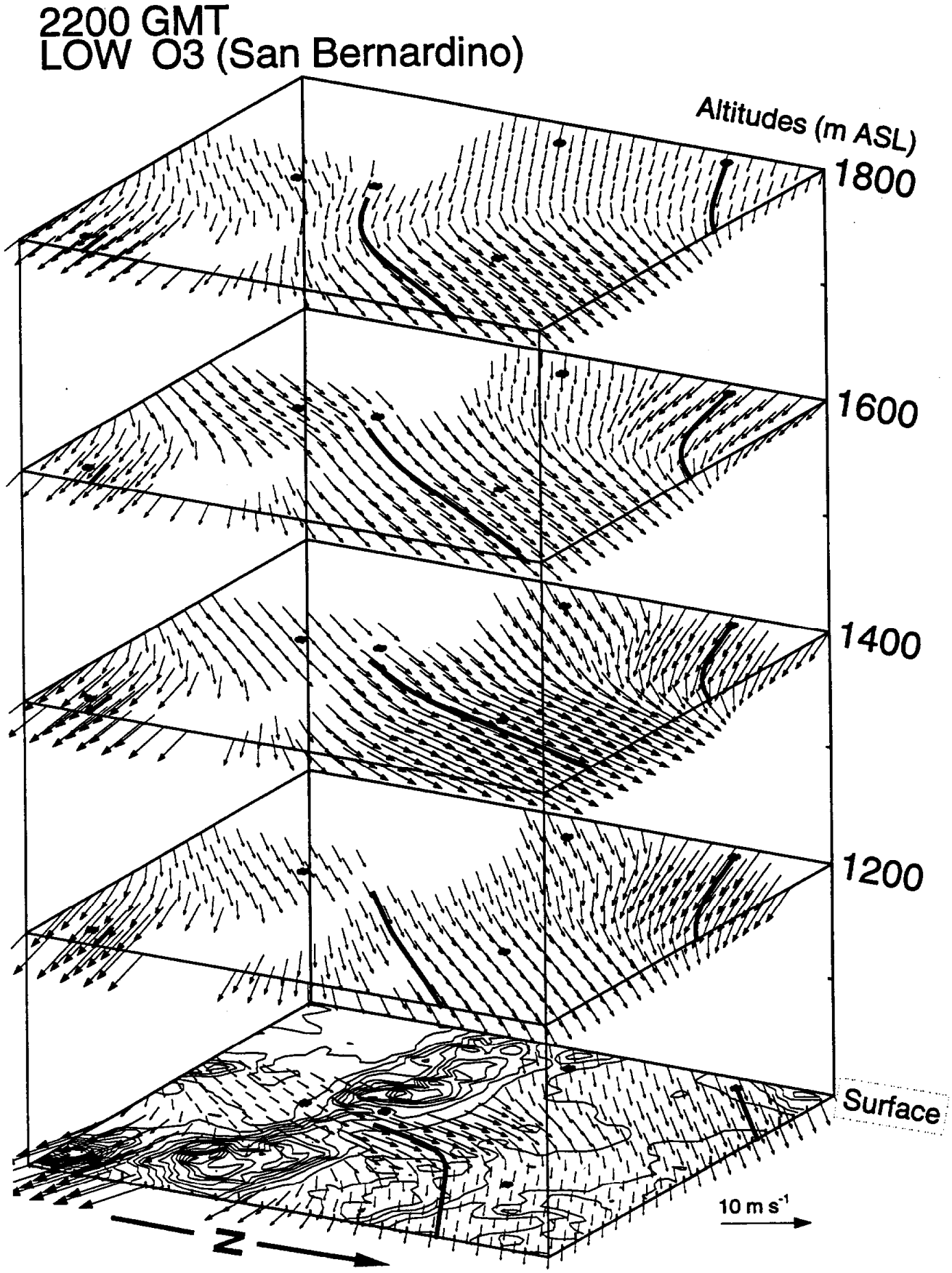

1700 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N


1800 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

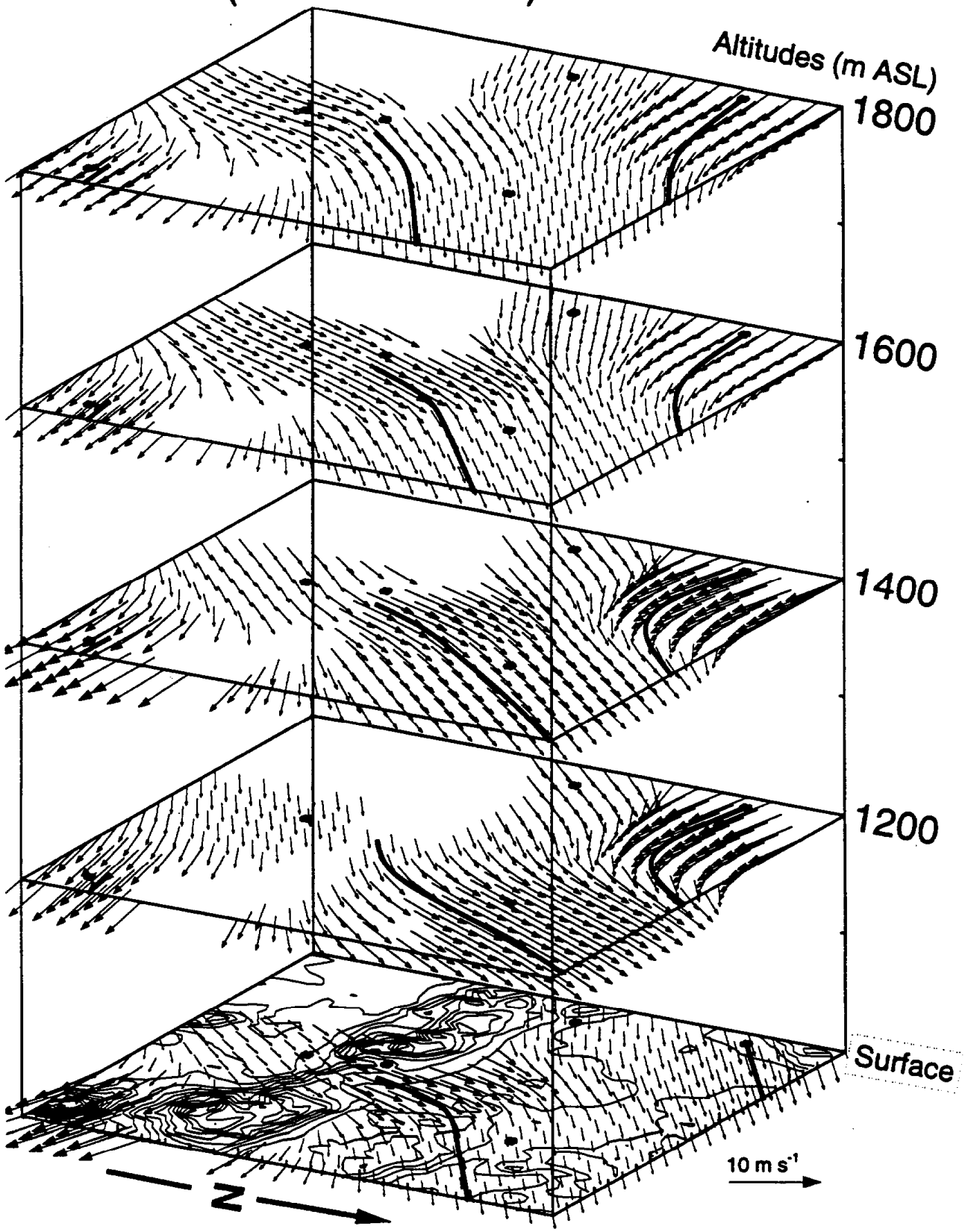

1900 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N


2000 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N


2100 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

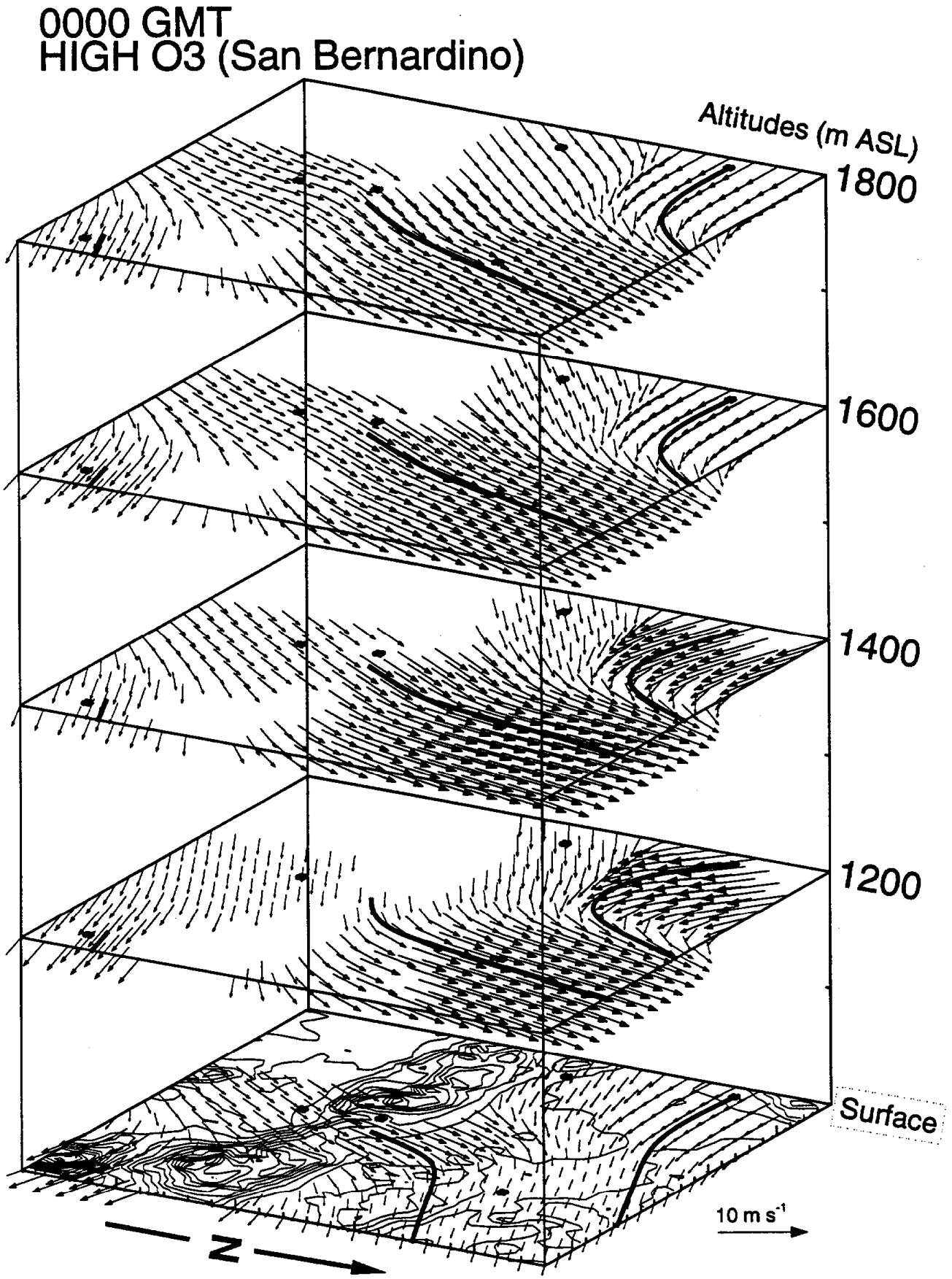

2200 GMT
LOW O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
Z

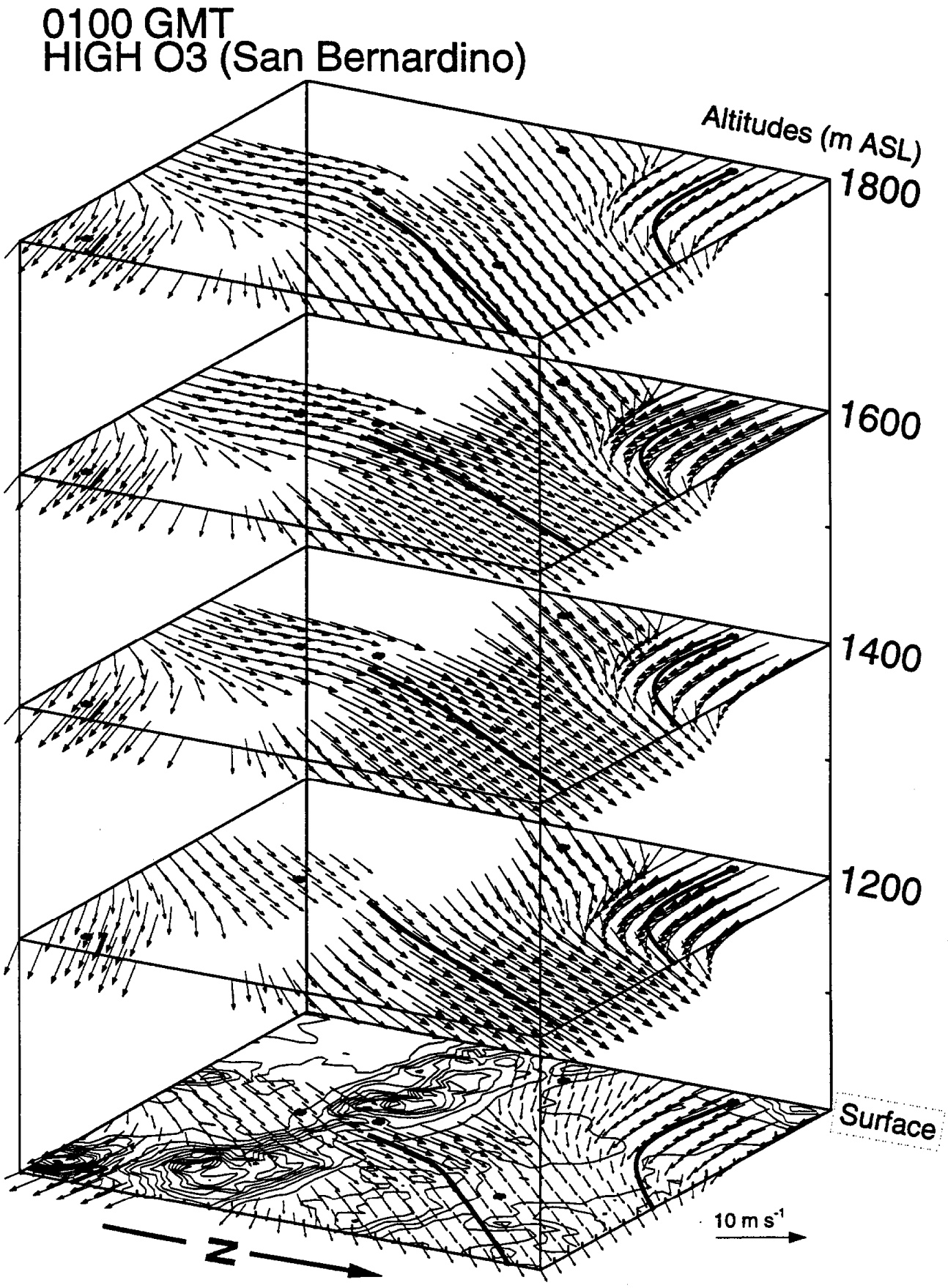
2300 GMT
LOW O3 (San Bernardino)

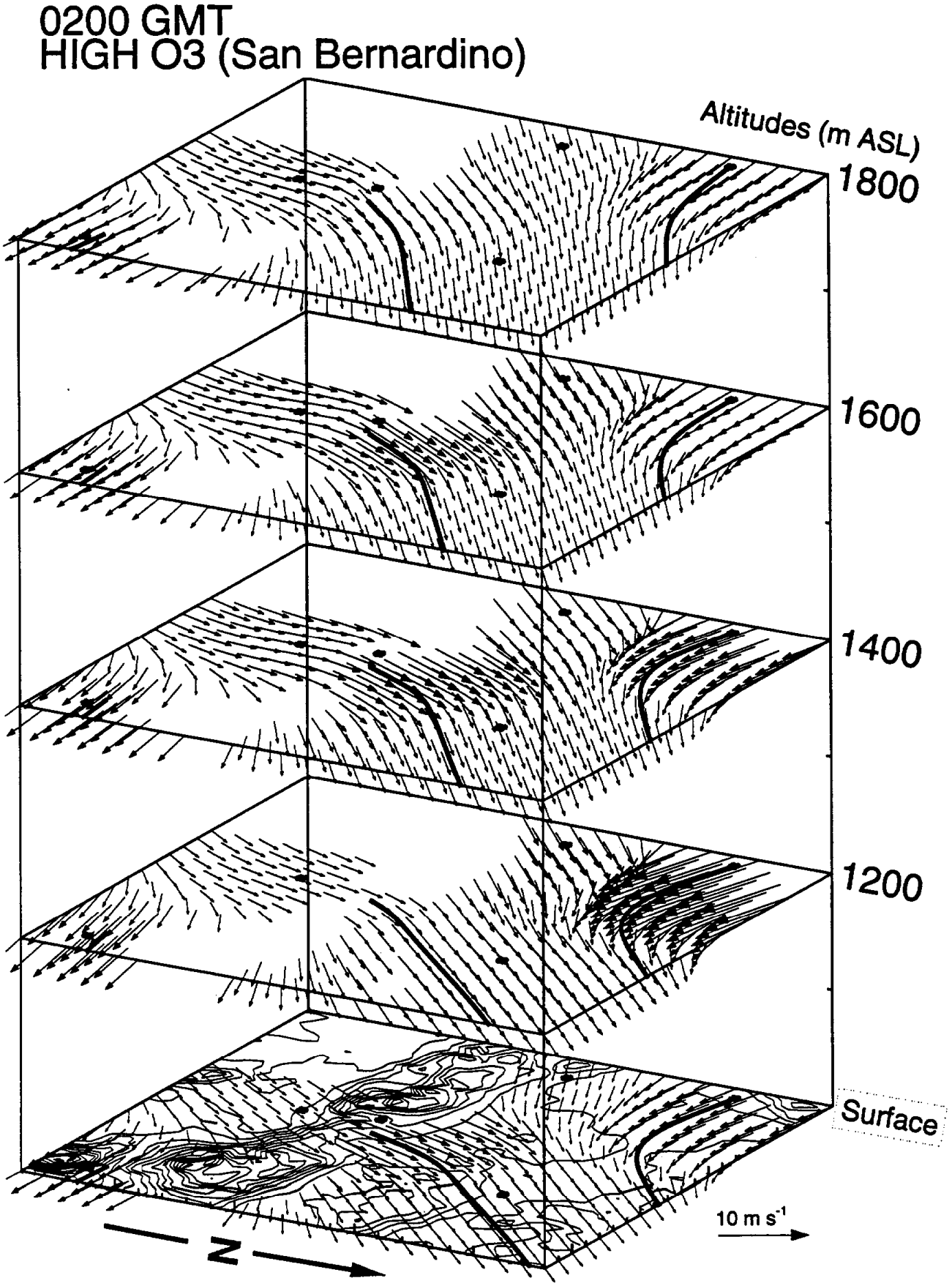


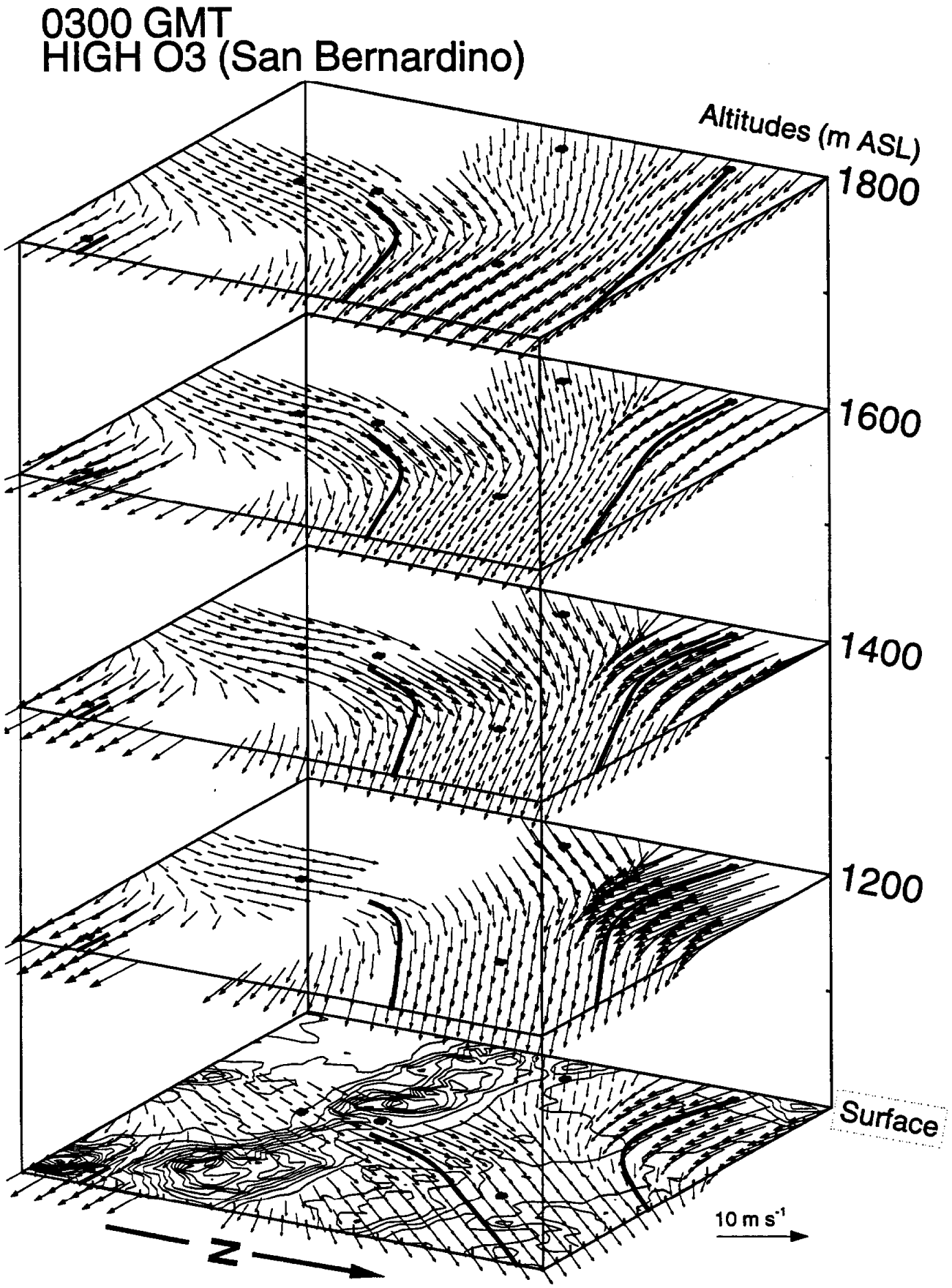
APPENDIX K

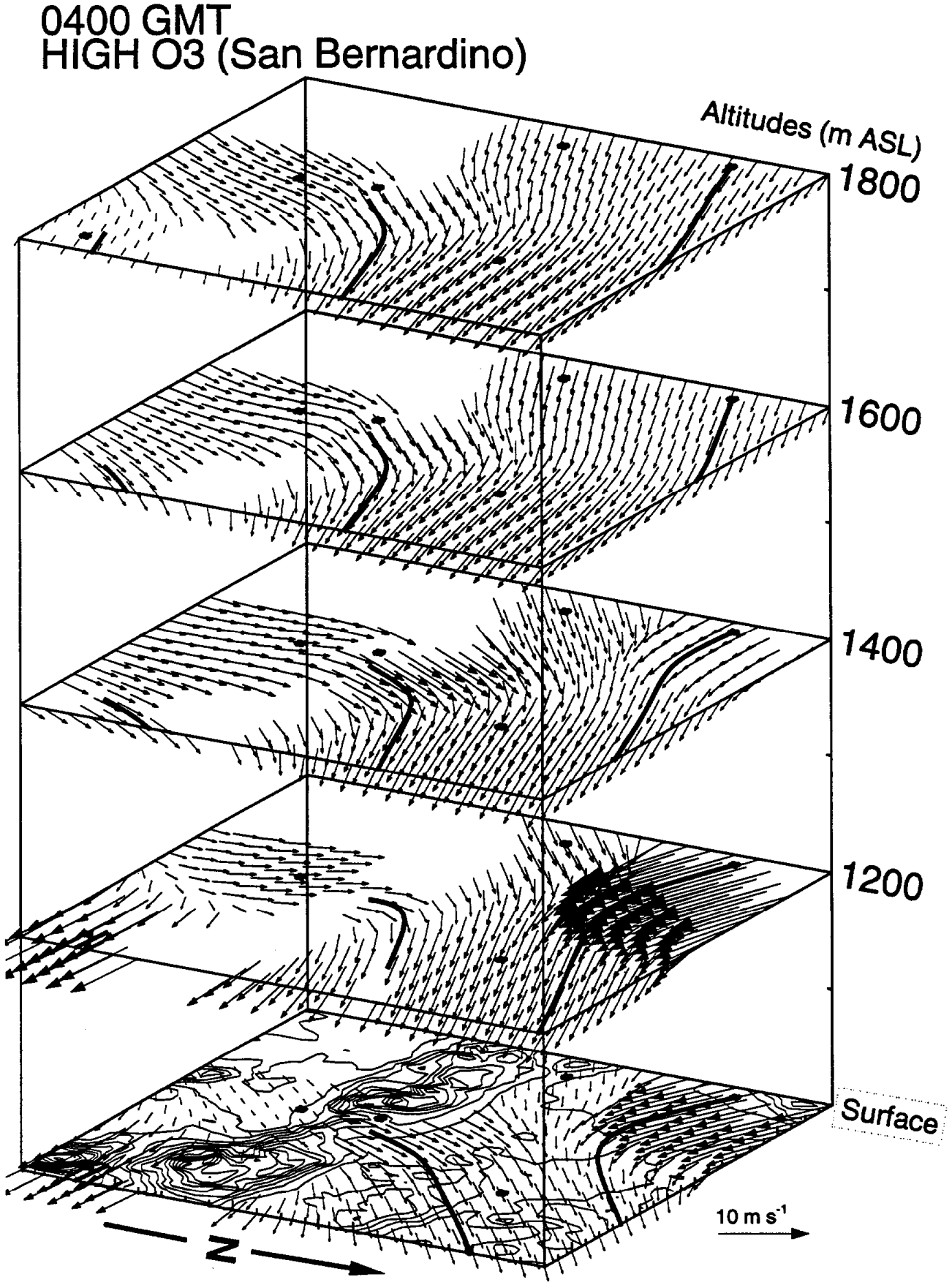
HOURLY INTERPOLATED SCT WIND FIELDS FOR HIGH-OZONE DAYS

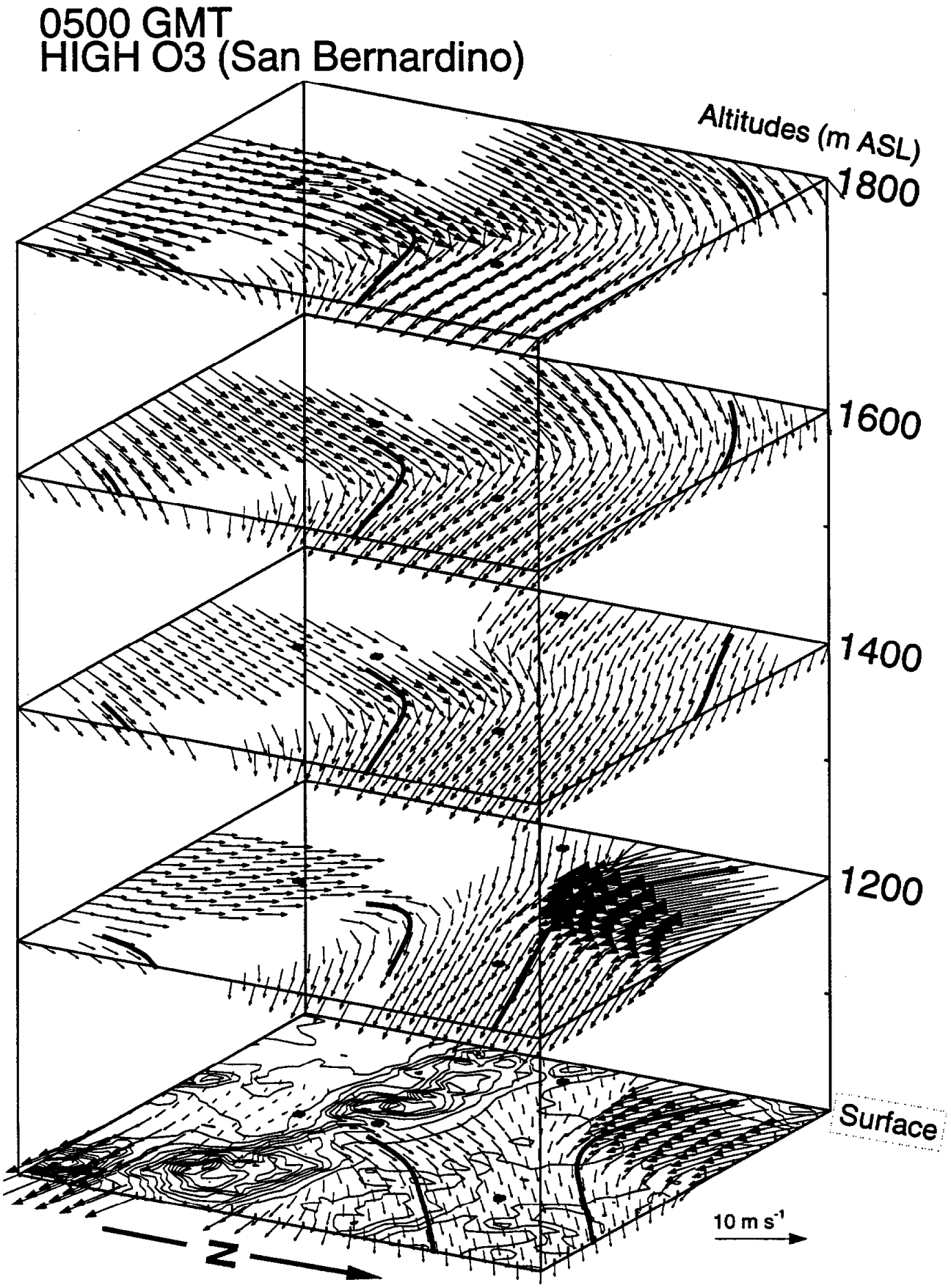

0000 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

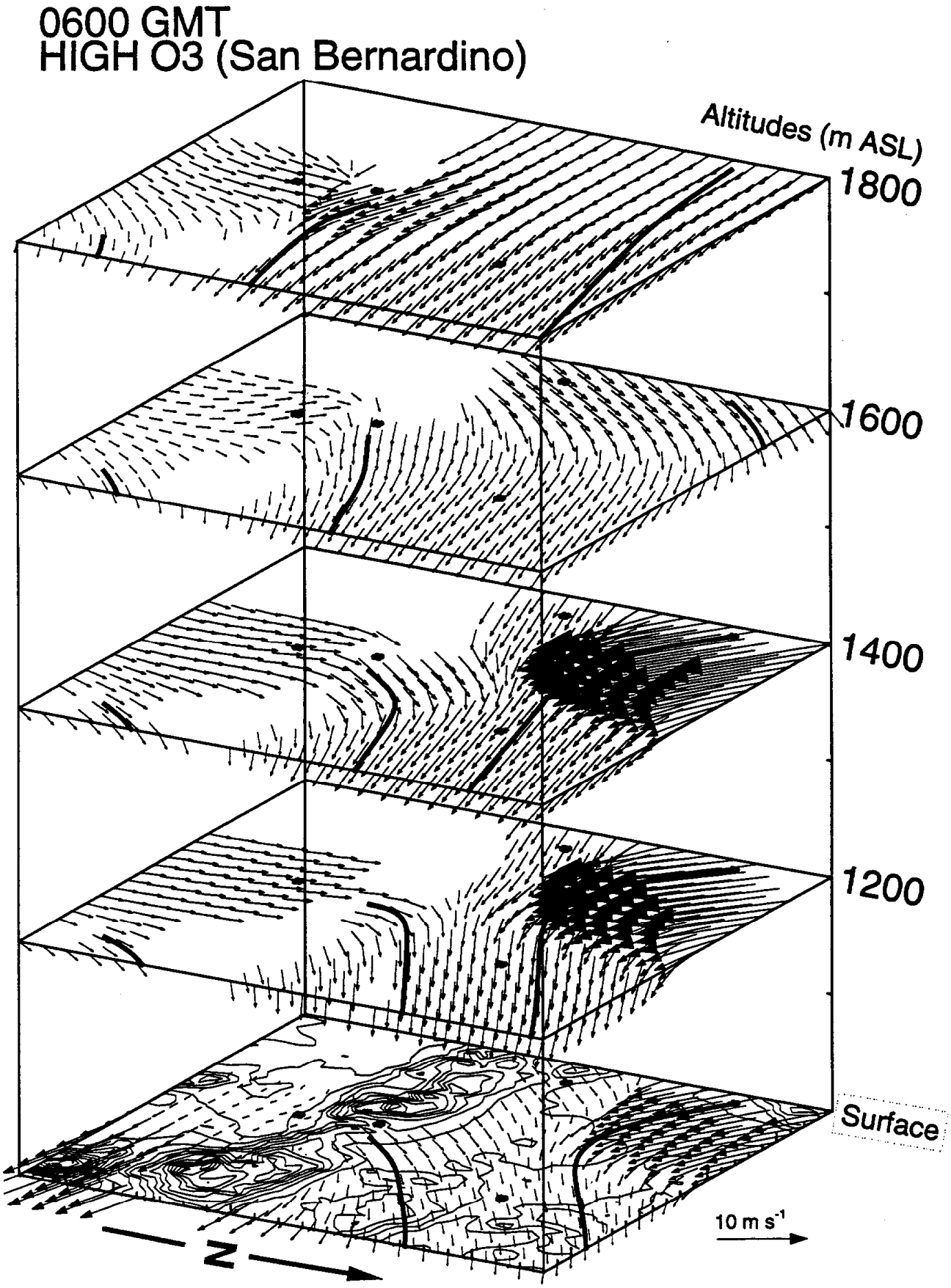

0100 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

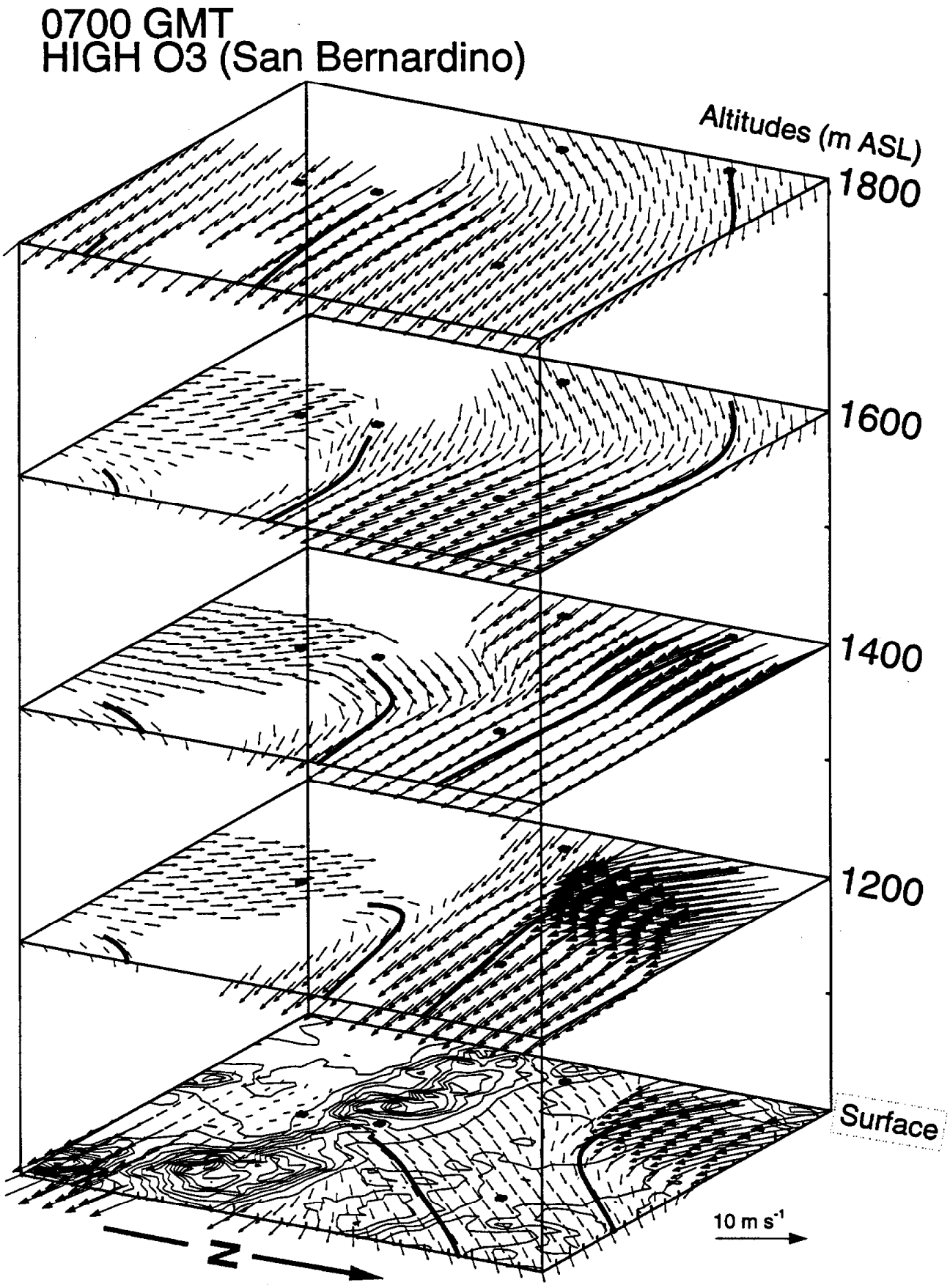

0200 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

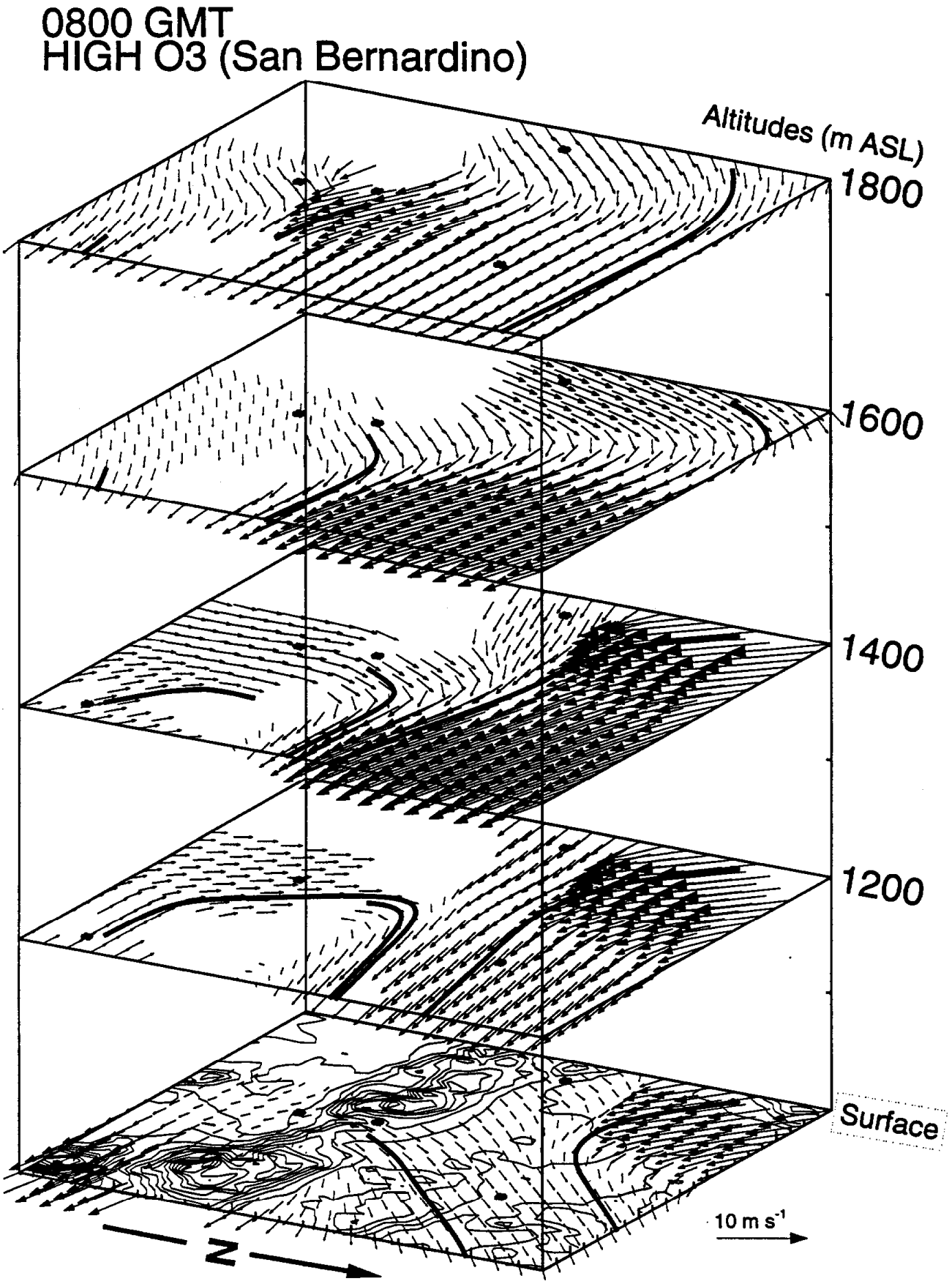

0300 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N


0400 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

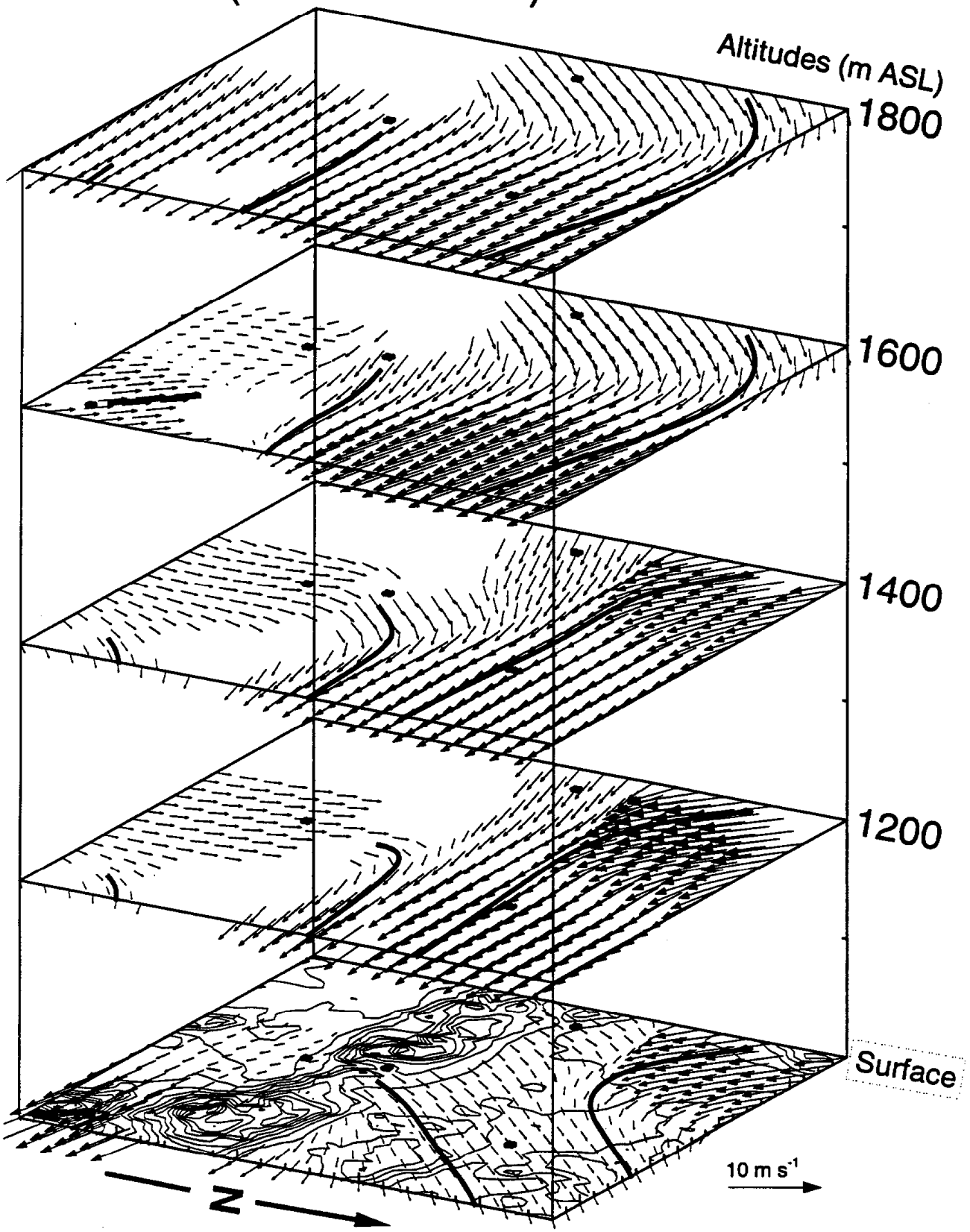

0500 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

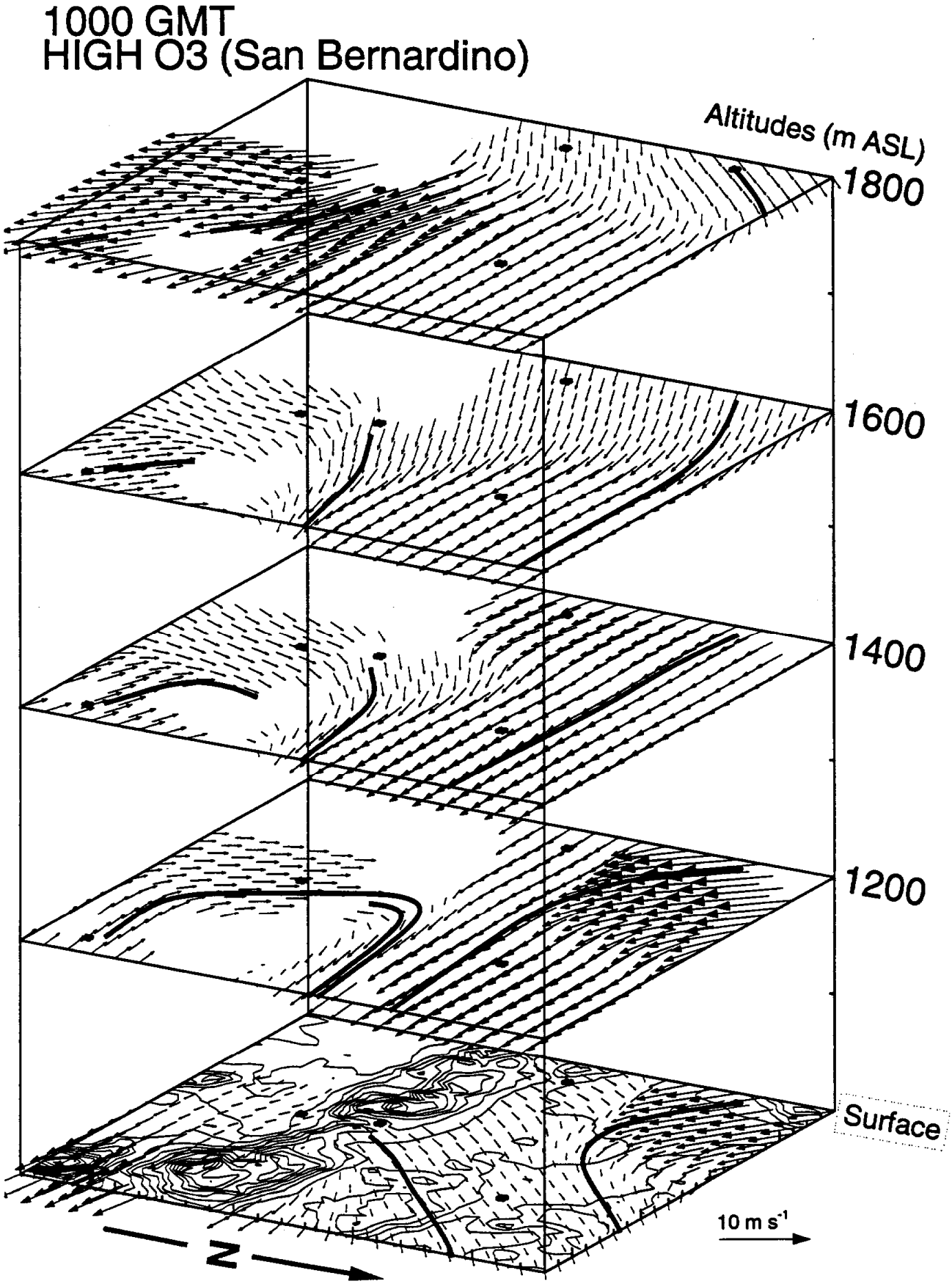

0600 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N


0700 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

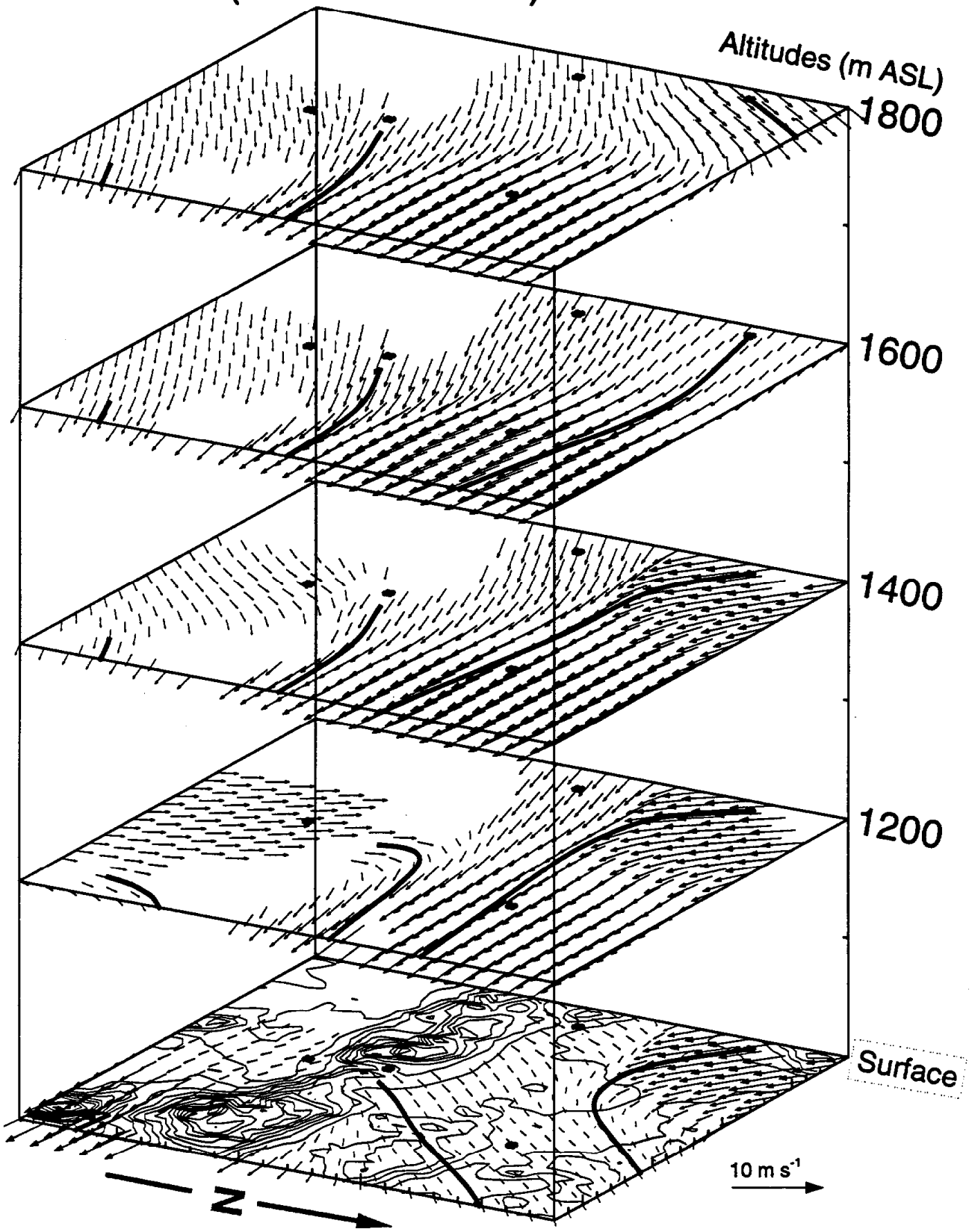

0800 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

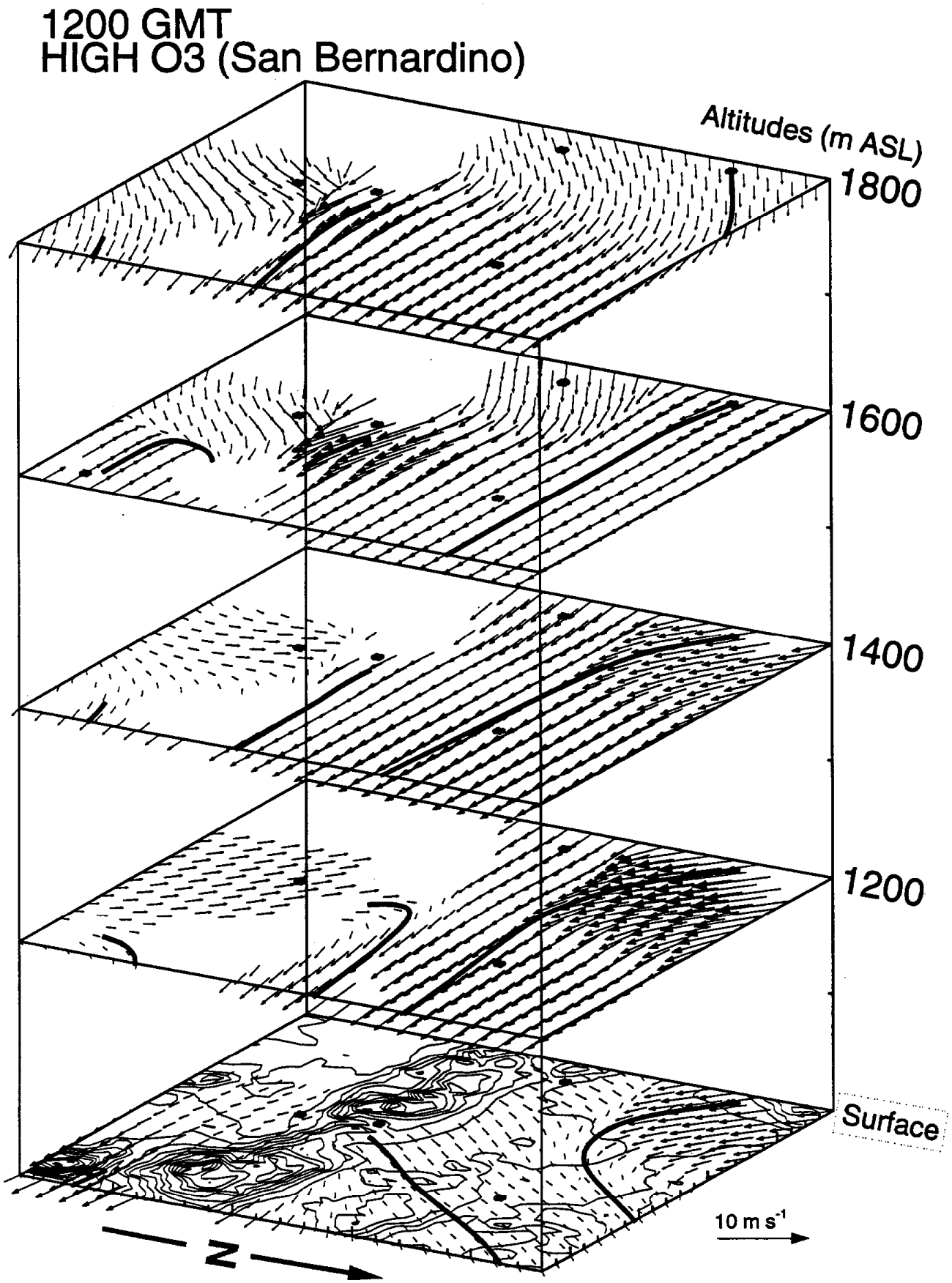
0900 GMT
HIGH O3 (San Bernardino)



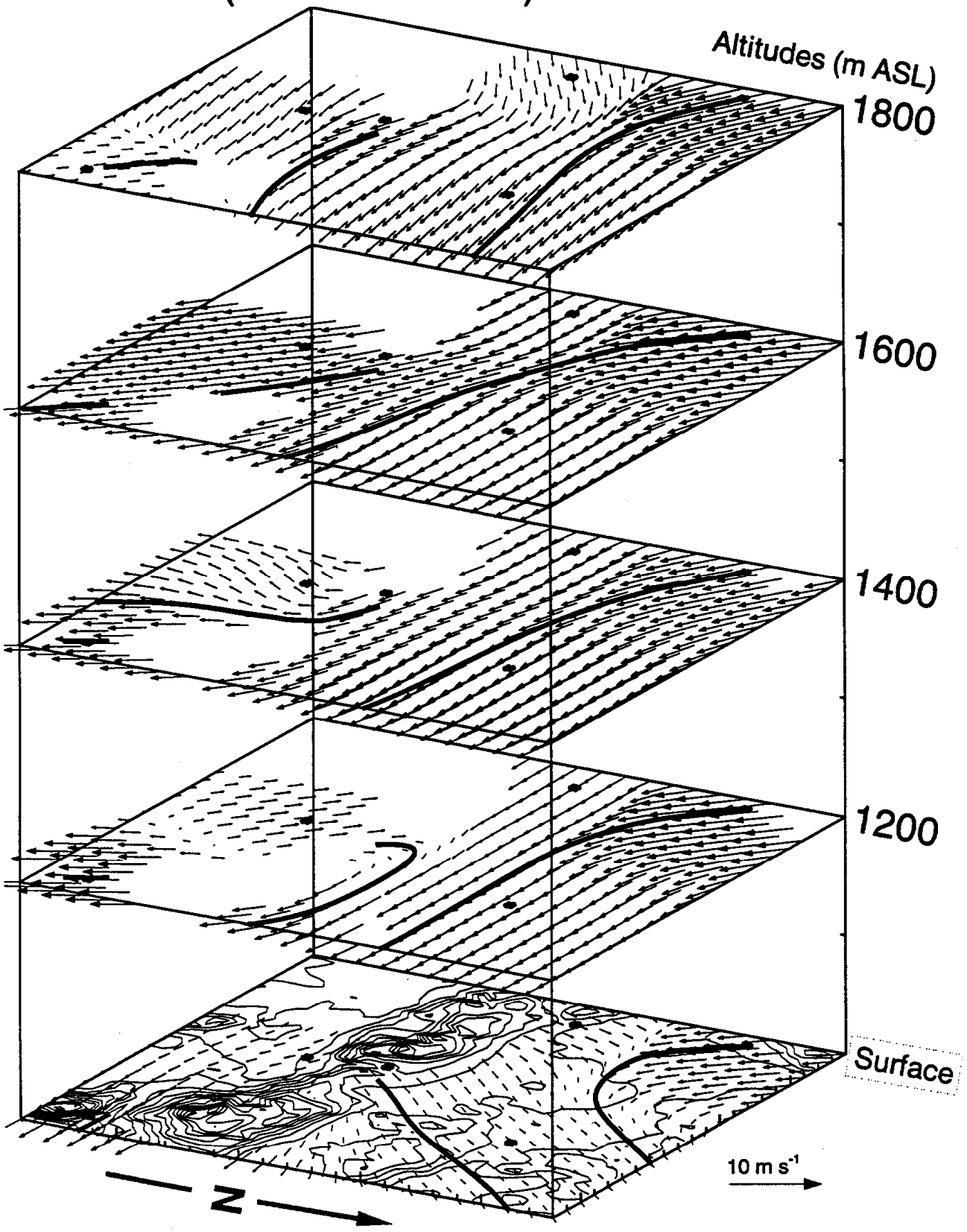

1000 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

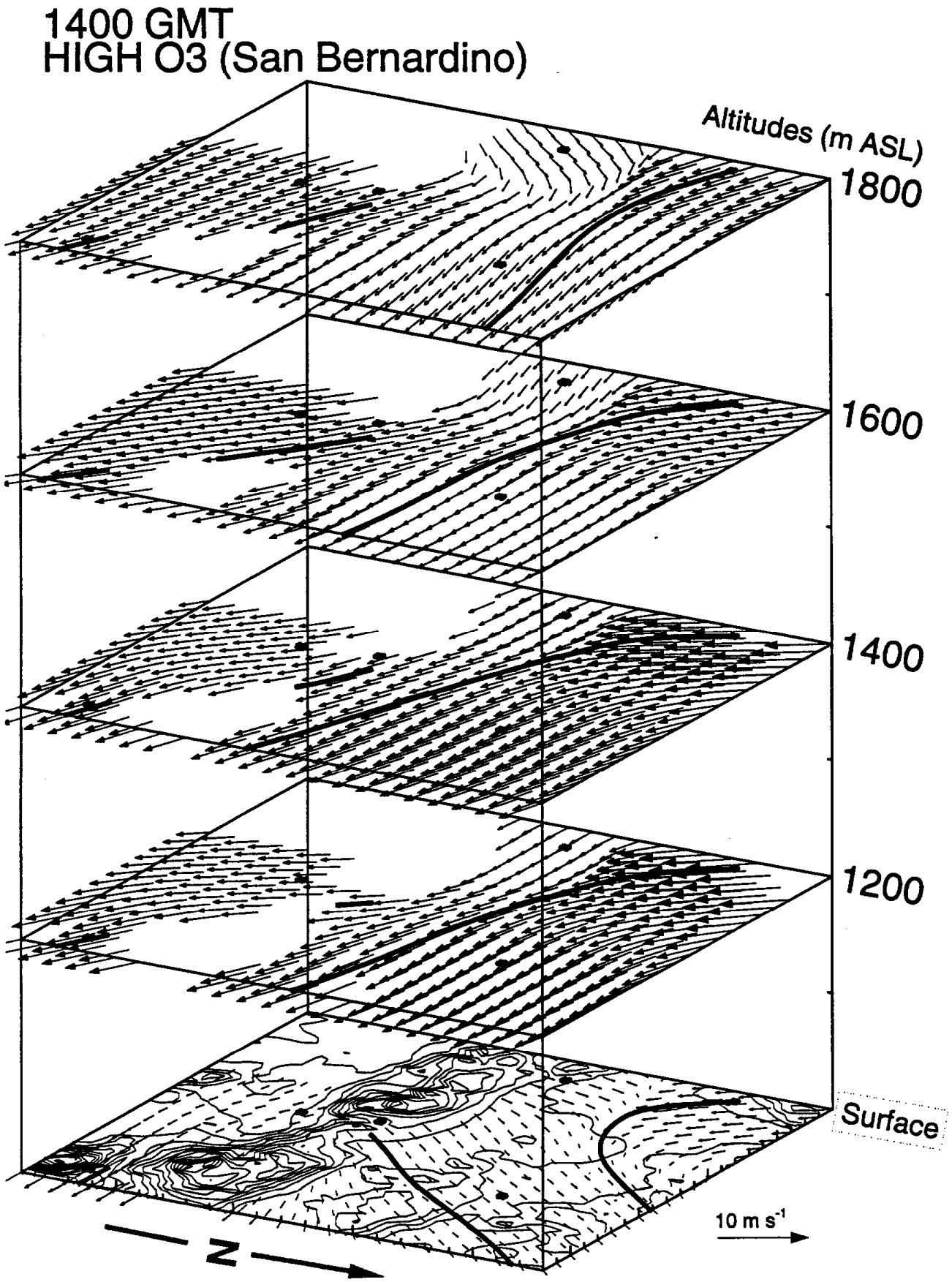
1100 GMT
HIGH O3 (San Bernardino)

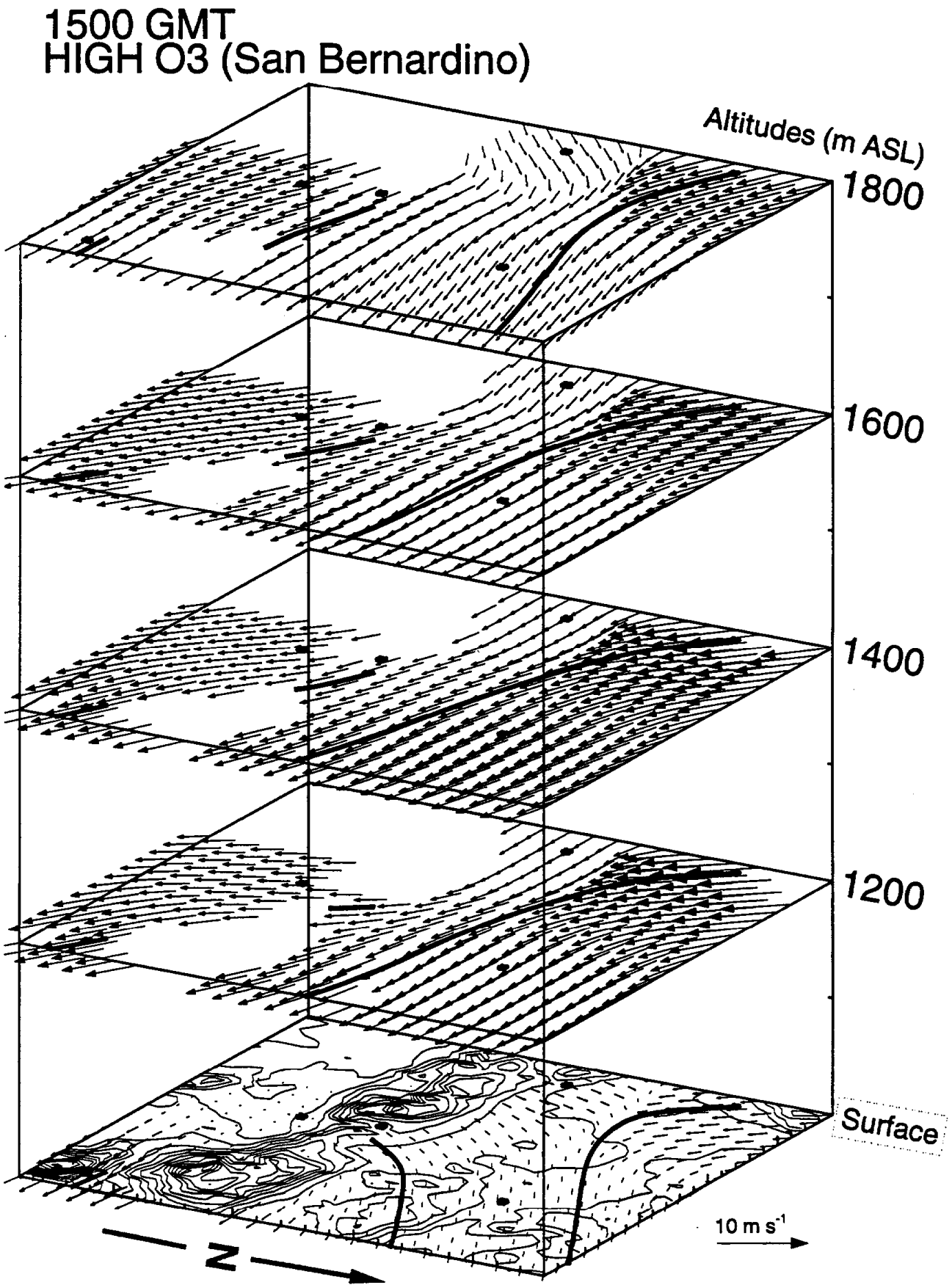


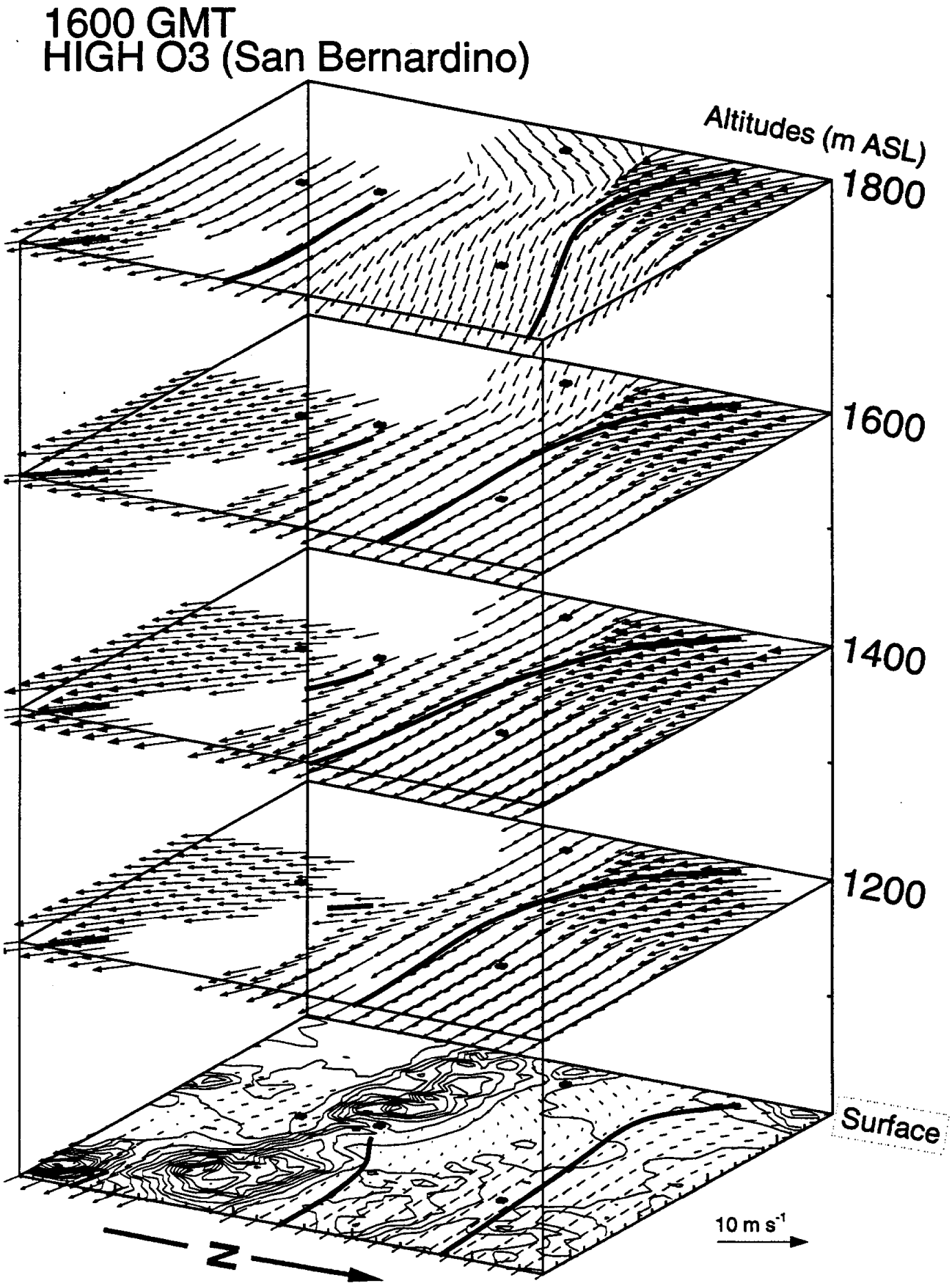

1200 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

1300 GMT
HIGH O3 (San Bernardino)

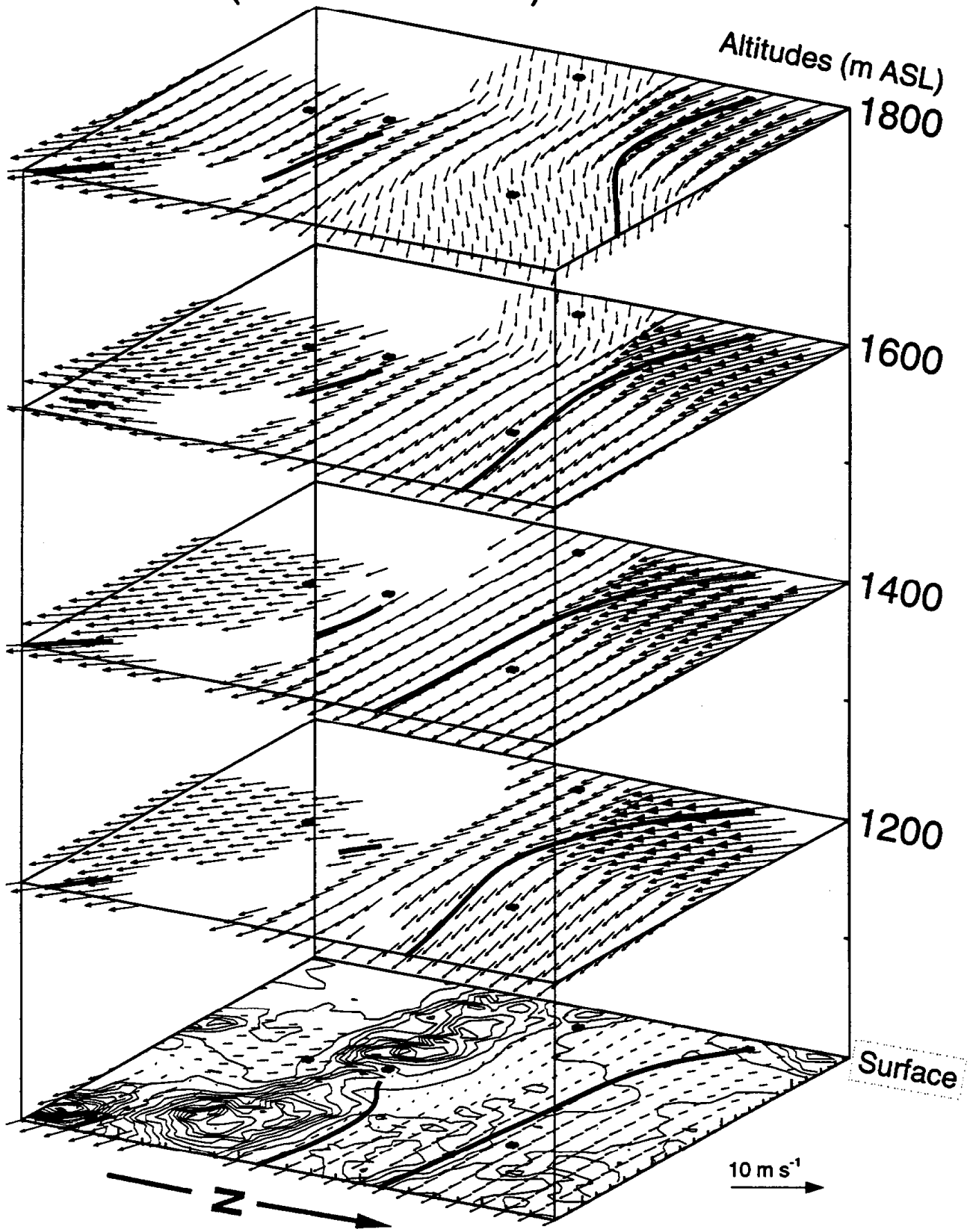


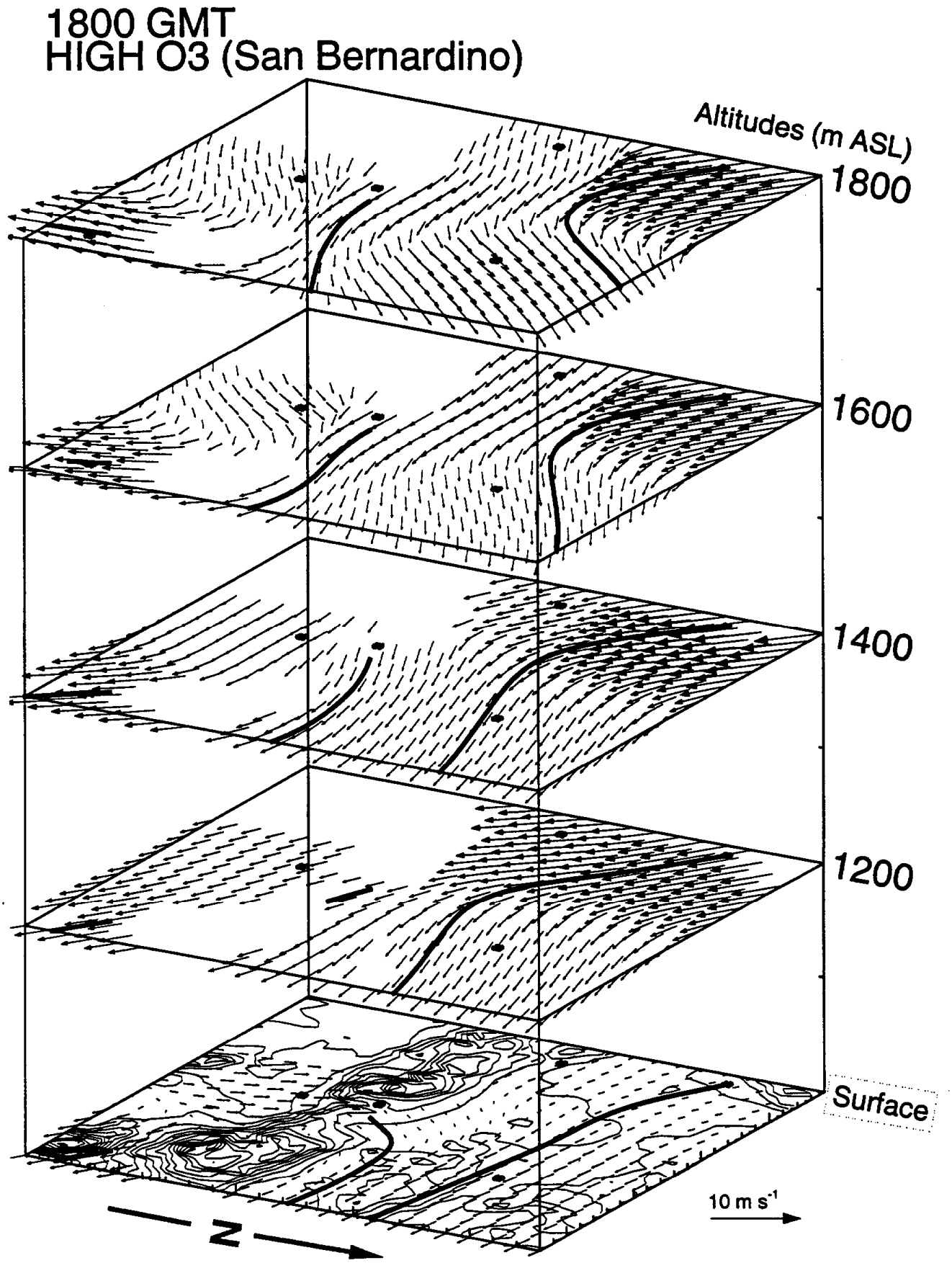

1400 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

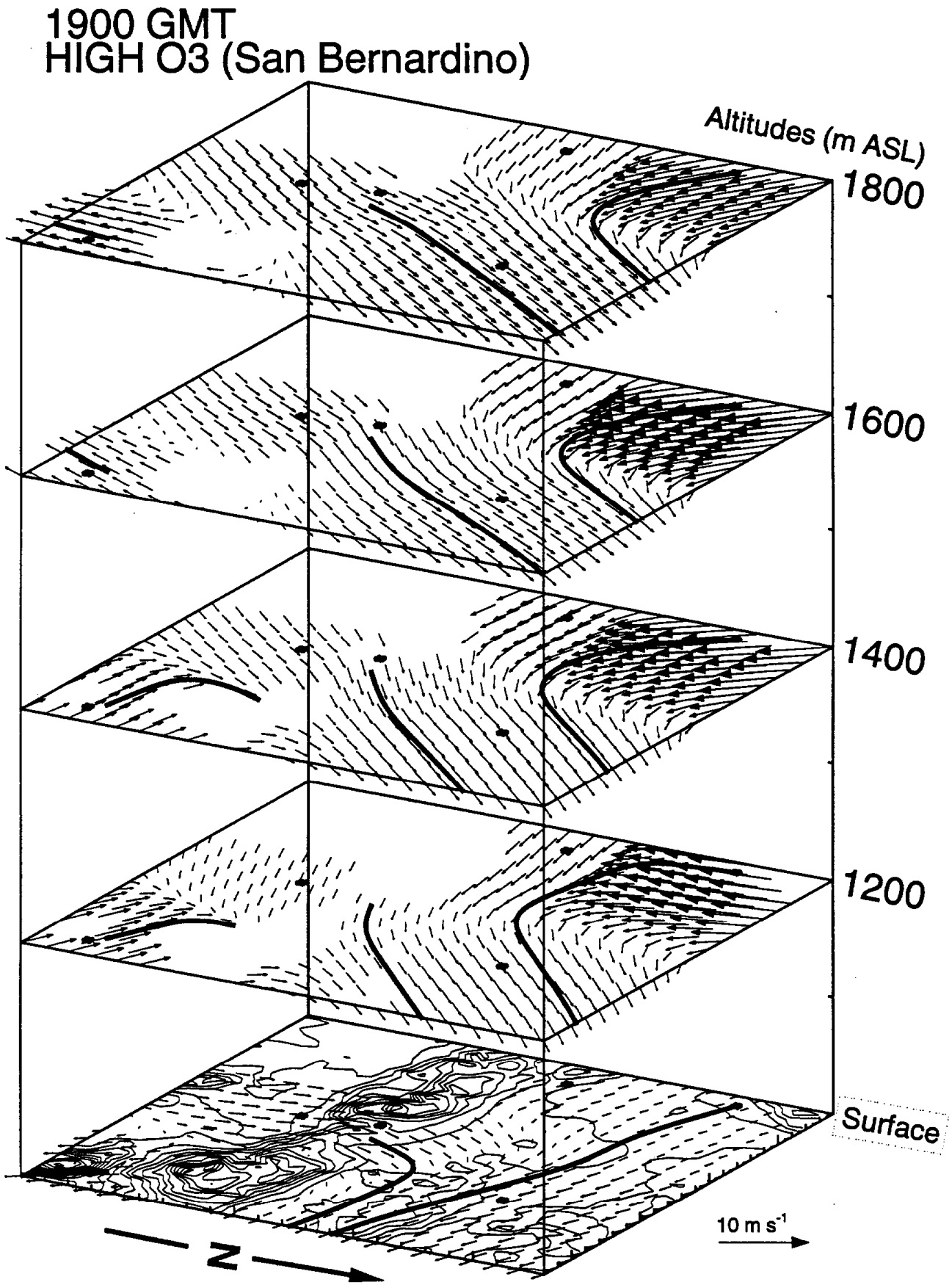

1500 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N


1600 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

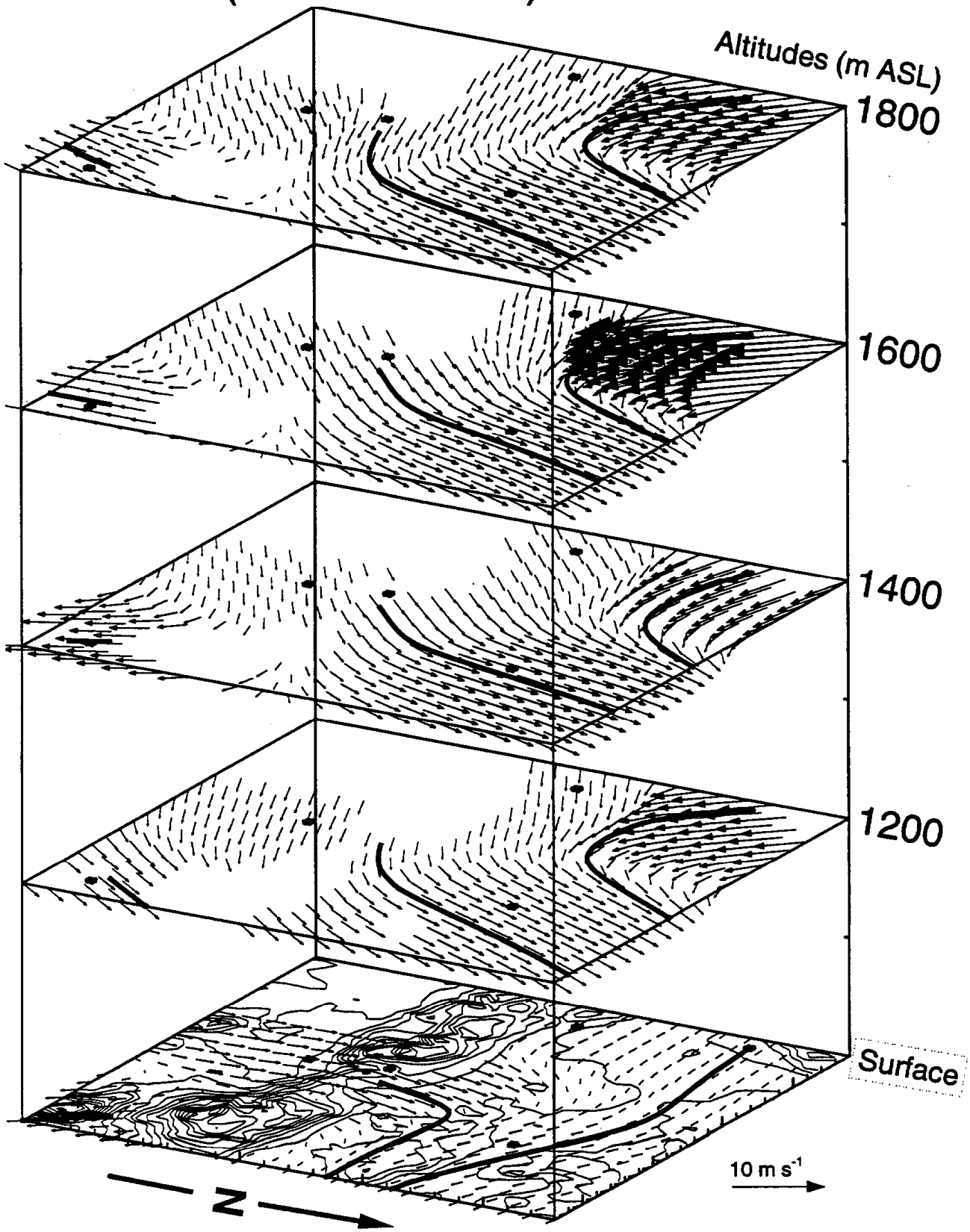
1700 GMT
HIGH O3 (San Bernardino)

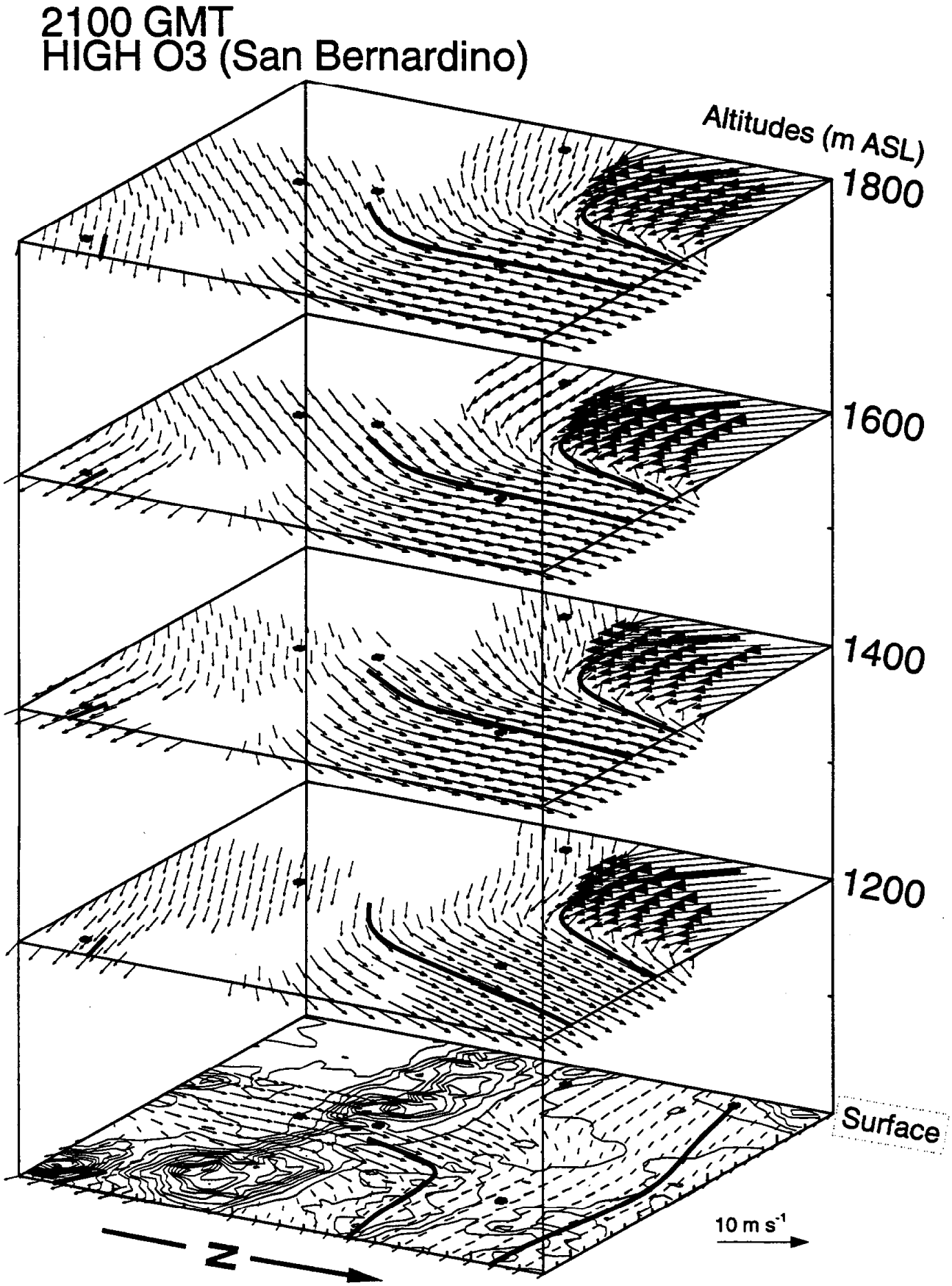


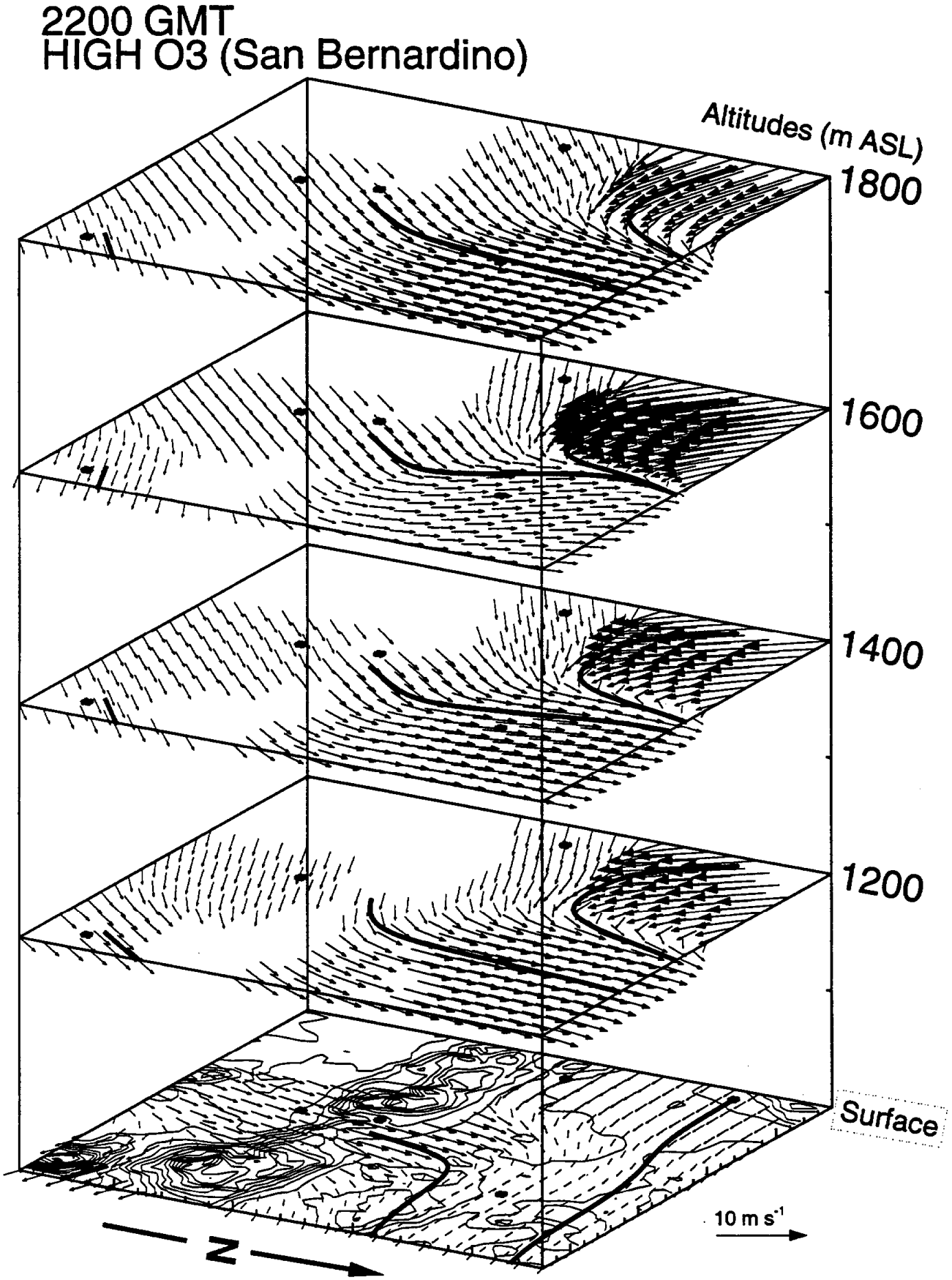

1800 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

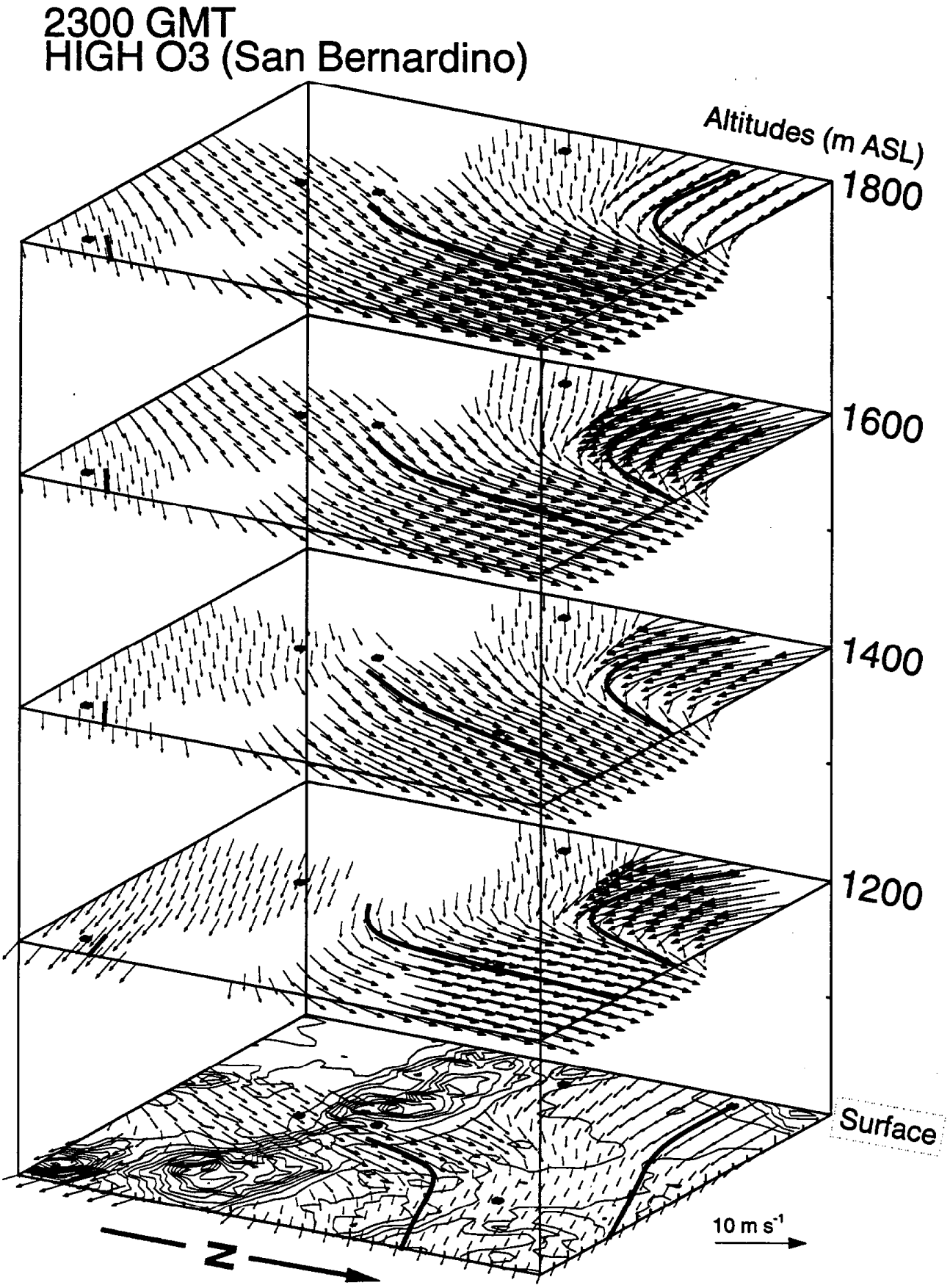

1900 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N

2000 GMT
HIGH O3 (San Bernardino)




2100 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N


2200 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N


2300 GMT
HIGH O3 (San Bernardino)
Altitudes (m ASL)
1800
1600
1400
1200
Surface
10 m s-1
N