

Antarctic Climate Research Data, Part 6  
Aerological Sounding Data at Asuka Station, Antarctica  
from January 1989 to October 1991

Susumu KANETO<sup>1</sup>, Nobuhiko AZUMA<sup>2</sup>, Shigemi MESHIDA<sup>1</sup>,  
Akira IWASAKI<sup>1</sup>, Yoshitaka SUKEGAWA<sup>1</sup> and Takashi YAMANOUCHI<sup>3</sup>

<sup>1</sup>Japan Meteorological Agency, Chiyoda-ku Tokyo 100

<sup>2</sup>Nagaoka University of Technology, Nagaoka 940-21

<sup>3</sup>National Institute of Polar Research, Itabashi-ku, Tokyo 173

### 1. Introduction

As part of the Antarctic Climate Research (ACR) program (1987–1991) of the Japanese Antarctic Research Expedition (JARE), aerological soundings were made at Asuka Station (71°32'S, 24°08'E, 930 m above sea level) from 1989 to 1991 by observers N. AZUMA and S. MESHIDA (JARE-30), A. IWASAKI (JARE-31), and Y. SUKEGAWA (JARE-32). These observations were made in order to reveal interannual variation of the Antarctic atmosphere.

### 2. System of Observation

Aerological observations at Asuka Station were made by use of the OMEGA-sonde and automatic tracking system. Specifications of the radiosonde and ground equipment are shown in Table 1.

The measured elements were atmospheric pressure, geopotential height, air temperature, humidity, wind speed and wind direction.

### 3. Description of the Data

The data acquisition was set to 10 s intervals, corresponding to 50 m height intervals. Data were automatically analyzed and the standard level data, temperature and humidity significant level data, and wind significant level data were recorded on floppy diskette.

Observation date and weather are shown in Table 2.

Data are listed in one table and drawn in one figure for each observation. The symbols and units used in the tables are listed below.

DATE and TIME :           Launch date and time in local time (UT+3 hr)

Weather :                   Launch time weather condition in WMO code

N (1chr) Total cloud cover  
 Nh (1chr) Amount of CL, or CM if no CL  
 CL (1chr) Low cloud type  
 h (1chr) Ceiling height of lowest cloud  
 CM (1chr) Middle cloud type  
 CH (1chr) High cloud type  
 ww (2chr) Present weather

**STANDARD LEVELS :** WMO defined mandatory levels for reporting message

**TEMP & HUM :** Levels which show prominent change in air temperature and/or relative humidity as follows:

**SIGNIFICANT LEVELS**

The surface level and the highest level of the sounding

The base and top of a layer without data

Termination level for relative humidity (Tropopause or  $-70^{\circ}\text{C}$ )

The first tropopause is defined as the lowest level at which the lapse rate decreases to  $2^{\circ}\text{C}/\text{km}$  or less

If the maximum lapse rate above the first tropopause increases to more than  $3^{\circ}\text{C}/\text{km}$ , then a "second tropopause" is determined by the same criterion as that of the first tropopause

**WIND SIGNIFICANT :** Levels which show prominent change in wind speed and wind direction as follows:

**LEVELS**

The surface level and the highest level of the sounding

The base and top of a layer without data

Maximum wind speed level which exceeds  $30\text{ m/s}$  above  $500\text{ hPa}$  level

**P :** Atmospheric pressure (hPa)

Prefix "T" means tropopause level

Prefix "M" means maximum wind speed level

**H :** Geopotential height (m)

**T :** Air temperature ( $^{\circ}\text{C}$ )

Shown by thick line in the figure

**U :** Relative humidity (%)

**D :** Wind direction (degrees clockwise from the true North)

**V :** Wind speed (m/s)

Table 1. Specification of radiosonde and ground equipment.

Specification	
Radiosonde	RS80-15N (Vaisala/Finland)
	Transmitter frequency      403 MHz
	antenna power    200 mW
	Wet type battery
	Sensor    Temperature    Thermistor
	Pressure            Aneroid gauge
	Humidity            Capacity type
Ground equipment	DigiCora MW11 (Vaisala/Finland)
	UHF multi antenna
	LF OMEGA antenna
	Flight balloon 600, 350, 300 gr
	Helium gas cylinder
	Balloon launcher

Table 2. Observation date and weather condition.

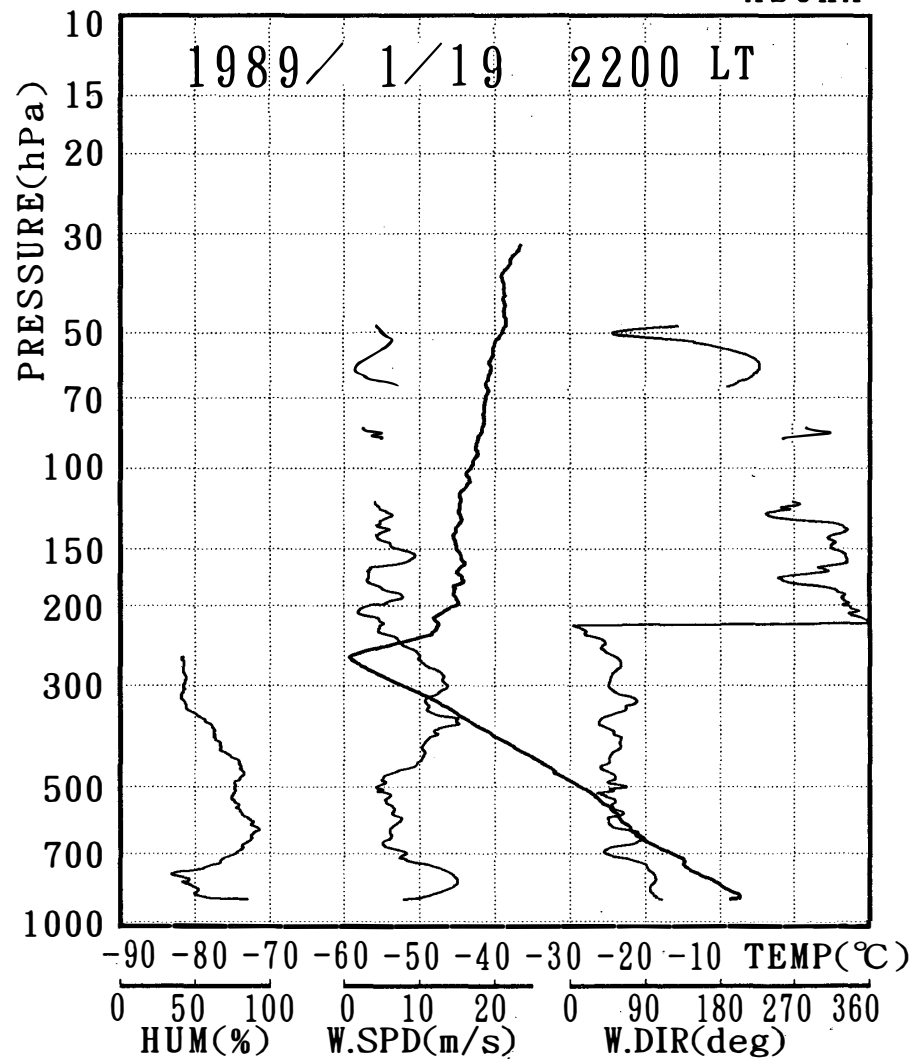
DATE	TIME	Weather	DATE	TIME	Weather	DATE	TIME	Weather
89 1 19	22 00	7 70/7/ 02	90 1 05	11 32	7 15/7/ 02	91 10 09	18 22	0 00900 02
89 1 20	14 36	6 40/34 02	90 1 06	15 23	1 11/30 02	91 10 10	14 11	2 00902 39
89 1 26	14 36	1 00901 02	90 1 09	15 35	1 10/31 02	91 10 16	18 42	1 00901 02
89 2 10	14 38	1 10/30 38	90 1 15	11 16	7 16/7/ 02	91 10 17	18 26	1 10/30 02
89 2 15	16 29	1 00901 02	90 1 19	08 51	1 10/30 02	91 10 18	15 22	1 10/30 02
89 2 22	15 41	7 70/5/ 03	90 1 23	09 38	4 15/01 02	91 10 19	15 39	1 11/00 02
89 3 01	14 36	2 20/30 02	90 1 24	09 32	1 10/31 02	91 10 20	15 28	3 00901 02
89 3 12	14 38	0 00900 02	90 2 28	14 40	6 60/71 02	91 10 21	15 27	1 10/30 02
89 3 23	14 54	7 26/5/ 02	90 4 03	14 47	5 20/32 02	91 10 22	15 31	1 00901 02
89 3 24	14 32	1 00902 02	90 5 18	14 27	6 16/36 03	91 10 23	15 28	3 30/50 03
89 3 31	14 41	1 10/41 02	90 6 26	14 32	7 70/7/ 03	91 10 24	15 33	4 40/30 02
89 4 06	14 59	6 20/34 02	90 8 06	14 32	2 20/30 02	91 10 25	15 26	2 10/31 02
89 4 19	14 37	2 00902 02	90 10 17	14 32	1 00901 02	91 10 26	15 19	2 00901 36
89 4 21	14 35	6 00902 03	90 11 30	15 50	6 60/50 03	91 10 27	15 27	7 60/32 02
89 4 27	14 36	3 16/32 36	90 12 22	18 29	3 21/30 02	91 10 28	15 27	9 9/// 75
89 5 06	14 29	7 20/32 02				91 10 29	15 59	4 10/31 02
89 5 10	15 31	0 00900 02						
89 5 17	15 14	6 40/76 02						
89 5 24	14 40	6 00902 02						
89 5 31	14 37	2 00902 02						
89 6 07	14 33	2 10/32 02						
89 6 15	14 50	5 10/32 02						
89 6 24	14 25	1 00901 02						
89 7 06	14 36	3 00901 02						
89 7 18	14 38	2 00901 02						
89 8 13	14 31	1 00902 02						
89 8 29	15 05	1 10/31 02						
89 9 05	14 44	2 00902 02						
89 9 13	14 40	1 15/40 02						
89 9 26	15 06	1 10/32 02						
89 10 04	14 32	7 10/32 39						
89 10 07	14 30	0 00900 02						
89 10 30	14 35	6 60/50 03						
89 11 06	14 43	1 10/30 02						
89 11 21	14 45	6 10/36 02						
89 12 02	14 34	6 16/32 36						
89 12 11	14 47	6 16/30 36						
89 12 21	15 05	2 11/32 02						

UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Jan. 19 22h 0m 7 70/7/ 02

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-80					: 881.6	-8.8	85	: 387.3	60	11.4
: 850	1214	-8.3	50	97	12.4	: 875.6	-7.4	60	: 363.0	34	15.3
: 700	2695	-16.3	76	43	8.2	: 779.5	-12.7	34	: 358.8	34	14.9
: 500	5161	-28.5	76	65	4.3	: 760.5	-14.0	48	: 324.6	80	10.7
: 400	6728	-38.3	67	58	10.6	: 732.8	-14.8	67	: 299.3	45	13.8
: 300	8650	-52.0	42	45	13.8	: 719.4	-14.9	68	: 265.7	60	10.3
: 250	9808	-56.7		39	9.2	: 653.9	-20.3	87	: 248.1	36	8.8
: 200	11270	-45.4		328	3.2	: 619.5	-22.0	93	: 238.5	40	7.2
: 150	13193	-45.1		317	7.5	: 509.9	-27.5	77	: 232.4	19	6.2
: 100	15907	-43.3		///	///	: 337.1	-45.8	45	: 207.7	335	1.8
: 70	18320	-41.3		///	///	: 320.2	-48.3	41	: 204.9	348	1.8
: 50	20611	-39.1		50	5.2	T 258.6	-59.4	42	: 199.8	328	3.2
						: 253.5	-58.1		: 191.3	327	7.8
						: 233.8	-49.7		: 184.3	319	5.2
						: 230.9	-48.4		: 178.6	271	3.4
						: 197.4	-44.8		: 173.2	250	3.2
						: 100.3	-43.4		: 170.9	273	3.2
						: 31.7	-36.5		: 167.8	312	3.0
									: 160.6	334	7.8
									: 154.7	331	9.4
									: 141.8	310	4.4
									P D V		
									: 136.5	334	5.8
									: 132.3	322	4.6
									: 127.4	240	6.1
									: 124.9	237	5.8
									: 122.6	266	4.8
									: 121.0	256	4.6
									: 119.5	278	4.1
									: 118.0	268	4.1
									: 117.2	///	///
									: 85.7	258	5.0
									: 85.2	259	5.3
									: 83.5	316	5.2
									: 80.8	286	2.6
									: 80.3	///	///
									: 65.6	188	7.2
									: 63.0	215	2.7
									: 60.4	225	1.5
									: 58.4	227	2.1
									: 55.2	203	4.6
									: 52.1	150	6.5
									: 50.7	73	5.6
									: 50.0	50	5.2
									: 49.3	60	4.9
									: 48.2	129	4.3

ASUKA

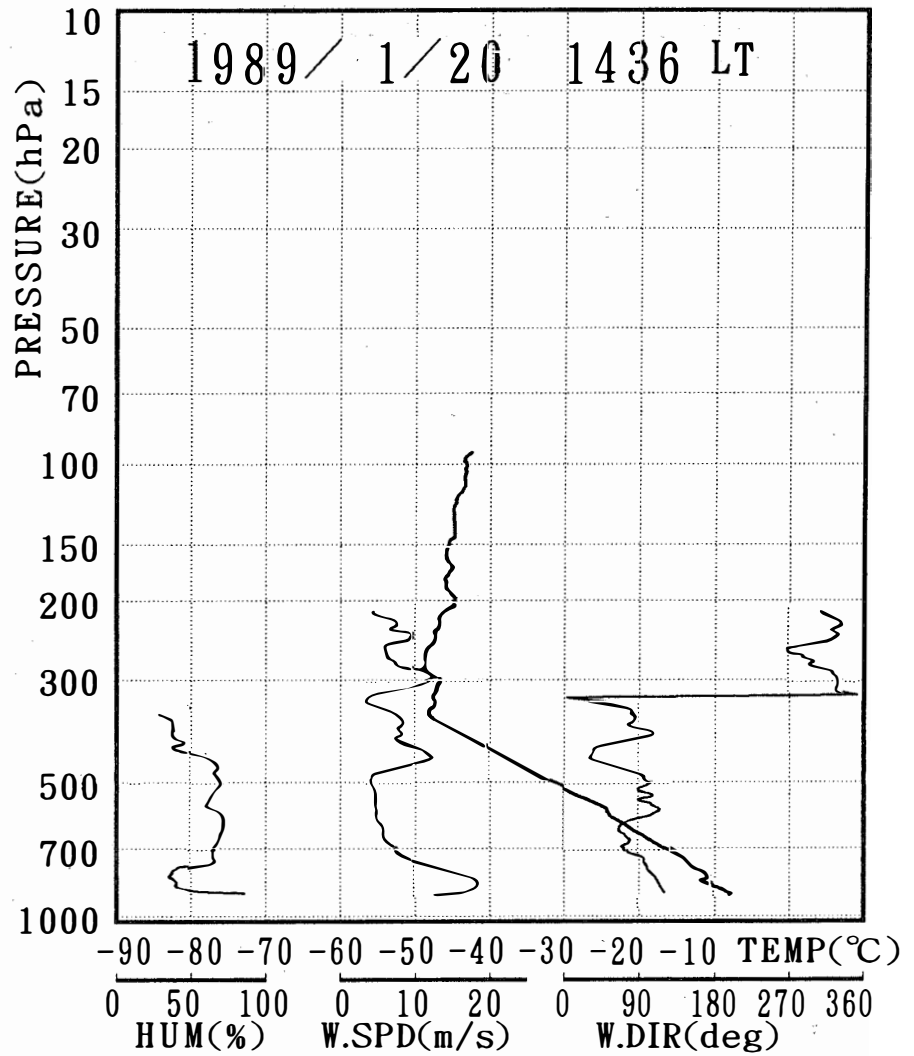


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Jan. 20 14h36m 6 40/34 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-79					881.7	-8.0	86	881.7	120	12.7
850	1213	-9.1	40	115	18.2	875.0	-7.6	56	823.3	111	18.6
700	2697	-15.7	65	74	7.5	816.7	-11.7	38	732.1	95	9.5
500	5160	-31.2	71	102	4.2	803.7	-10.7	35	683.6	70	7.1
400	6705	-42.2	42	74	7.7	738.9	-13.5	67	663.7	81	6.0
300	8614	-46.7		329	11.1	565.6	-24.2	63	614.7	70	5.5
250	9814	-48.1		275	5.9	459.3	-35.4	69	590.0	97	4.7
200	11294	-44.8	///	///	///	352.6	-48.1	29	570.3	116	5.1
150	13211	-45.6	///	///	///	304.8	-47.0		542.7	90	4.7
100	15928	-43.3	///	///	///	297.8	-46.7		529.9	108	4.8
						282.1	-48.9		513.1	89	4.6
						203.2	-44.7		497.0	105	4.1
						100.6	-43.2		481.5	98	4.3
						93.7	-42.5		478.0	95	4.2
									438.1	31	12.4
									414.2	41	9.7
									389.2	108	8.3
									369.9	77	8.4
									358.8	87	8.1
									341.6	76	5.5
									333.6	49	3.9
									328.6	18	3.4
									325.8	2	3.6
									316.0	331	5.6
									291.2	329	12.4
									284.5	324	12.2
									273.8	295	7.5
									260.4	288	6.4
									258.6	272	6.2
									251.5	269	6.0
									242.7	319	8.3
									235.8	331	9.6
									219.9	333	7.5
									208.7	309	4.5

ASUKA

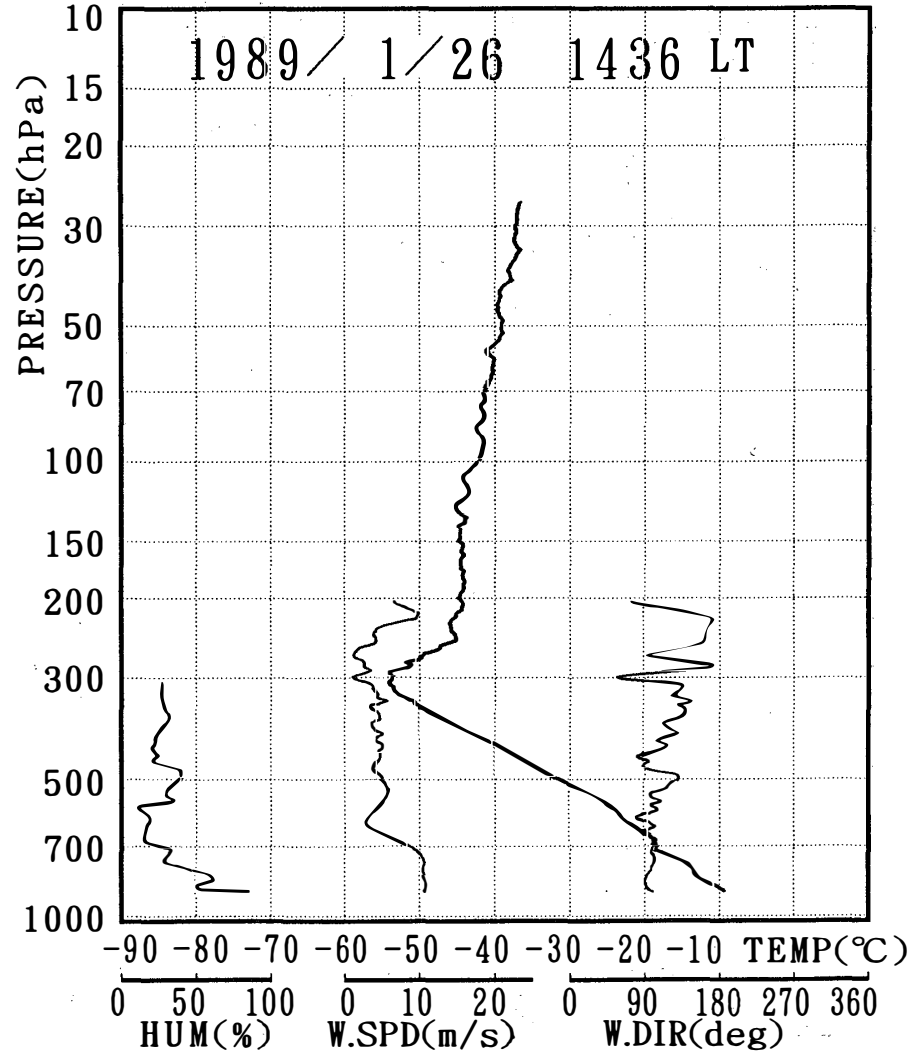


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Jan. 26 14h36m 1 00901 02

STANDARD LEVELS					TEMP & HUM SIG. L			WIND SIG. L			
P	H	T	U	V	P	T	U	P	D	V	
: 1000	-115				: 877.1	-9.3	86	: 877.1	100	10.8	
: 850	1172	-10.6	52	91	11.0	: 870.5	-9.5	54	: 825.0	90	10.8
: 700	2642	-18.4	27	99	8.9	: 810.6	-12.8	60	: 753.2	104	10.6
: 500	5098	-31.4	39	129	5.1	: 767.3	-13.9	35	: 648.8	91	4.6
: 400	6642	-42.2	24	129	5.2	: 753.2	-15.0	29	: 630.8	104	3.1
: 300	8528	-53.5		61	1.4	: 714.5	-18.5	34	: 623.0	98	2.9
: 250	9717	-45.9		162	4.0	: 676.6	-18.3	16	: 605.5	81	3.3
: 200	11205	-44.6	///	///		: 573.9	-24.6	12	: 586.6	106	4.2
: 150	13132	-44.6	///	///		: 559.3	-25.5	35	: 576.2	102	4.4
: 100	15853	-42.2	///	///		: 546.2	-26.3	32	: 559.3	111	5.4
: 70	18271	-41.4	///	///		: 476.7	-34.0	41	: 537.5	98	5.8
: 50	20565	-39.1	///	///		: 461.1	-35.3	23	: 495.1	131	5.0
: 30	24078	-37.3	///	///		: 379.4	-45.4	30	: 487.0	127	4.7
						: 359.9	-47.8	33	: 469.2	89	3.9
						: 325.3	-52.7	28	: 455.5	97	4.3
						T 306.4	-54.0	28	: 444.6	83	4.7
									: 423.8	118	5.3
									: 413.7	106	4.5
									: 397.3	132	5.3
									: 383.6	118	3.9
									: 354.6	140	4.4
									: 348.0	139	3.6
									: 335.1	145	5.8
									: 325.3	127	4.6
									: 316.1	135	3.9
									: 306.4	116	3.1
									: 300.1	61	1.4
									: 298.2	55	1.0
									: 285.0	169	3.1
									: 281.4	175	2.5
									: 279.7	157	2.6
									: 276.1	154	2.6
									: 269.9	103	1.5
									: 268.3	95	1.2
									: 265.3	99	1.1
									: 258.0	145	1.7
									: 249.9	162	4.0
									: 219.3	165	9.6
									: 214.7	146	9.7
									: 207.7	93	7.7
									: 202.8	75	6.8

ASUKA

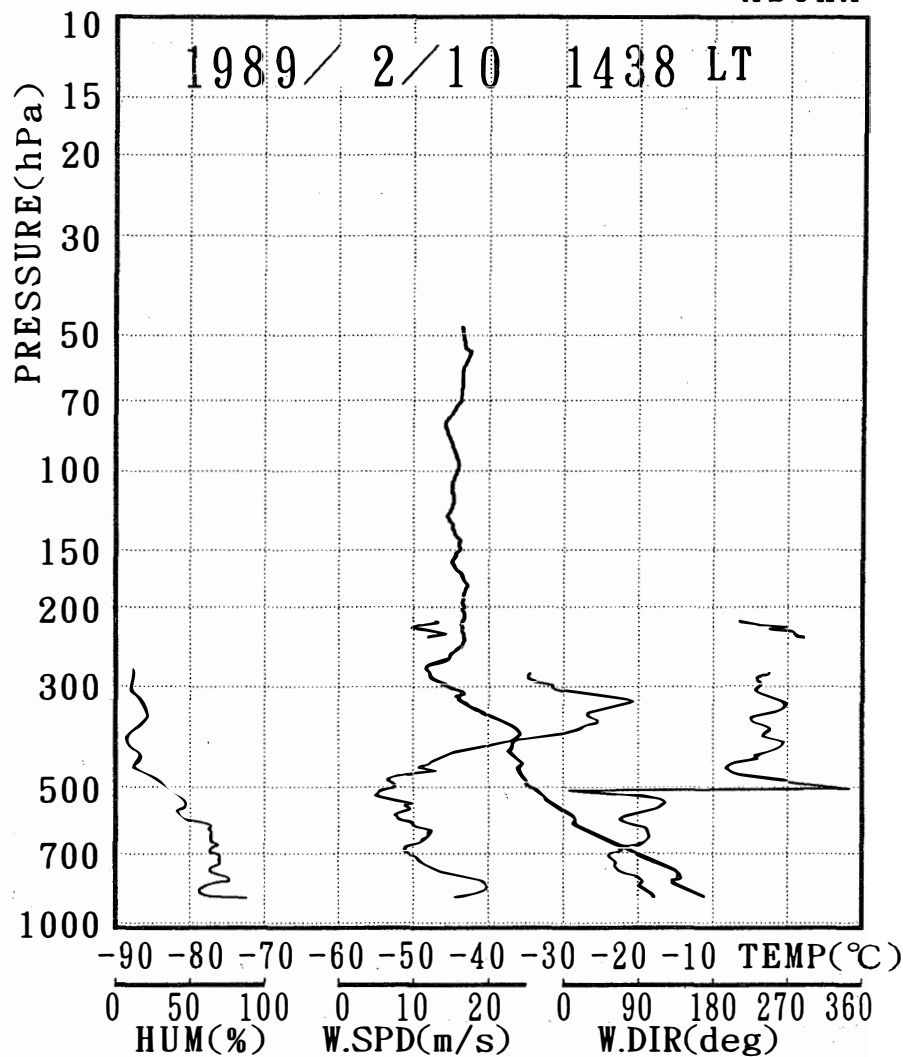


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Feb. 10 14h38m 1 10/30 38

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-137					873.9	-11.1	88	873.9	110	15.4
850	1142	-12.7	56	101	19.2	868.8	-11.5	65	826.2	92	19.8
700	2605	-20.2	68	58	9.5	815.3	-15.3	64	790.6	90	17.1
500	5019	-34.3	33	332	7.2	795.3	-14.3	76	765.8	67	13.1
400	6568	-36.7	9	266	22.1	765.8	-15.0	63	709.1	54	10.2
300	8532	-45.1	10	235	28.4	606.5	-28.4	64	686.1	71	8.7
250	9741	-44.5	///	///	///	586.7	-28.4	44	681.6	66	9.0
200	11241	-43.3	///	///	///	578.2	-28.8	43	663.4	99	10.8
150	13173	-44.0	///	///	///	T 469.5	-35.9	23	645.6	104	12.0
100	15885	-44.3	///	///	///	451.2	-35.8	12	623.8	101	12.4
70	18269	-43.9	///	///	///	383.0	-35.8	8	614.9	99	11.0
50	20533	-43.4	///	///	///	T 273.7	-48.4	11	590.7	67	8.2
						242.3	-43.5		559.0	114	9.5
						100.1	-44.3		540.0	122	9.1
						77.8	-45.8		522.1	88	4.8
						47.9	-43.6		507.4	6	5.7
									478.7	235	6.6
									466.3	202	10.5
									445.6	199	12.2
									433.2	235	13.5
									427.3	228	14.5
									420.9	247	15.1
									399.2	266	22.1
									386.0	239	28.2
									374.5	249	32.2
									353.4	225	33.8
									339.7	262	34.8
									328.2	268	38.5
									M 324.2	262	39.5
									309.6	232	32.1
									291.1	233	25.9
									287.1	232	25.2
									281.2	248	25.5
									279.3	///	///
									234.5	290	11.9
									226.8	273	12.2
									223.8	247	10.8
									222.4	269	10.0
									219.7	233	10.7
									215.4	211	12.8

ASUKA



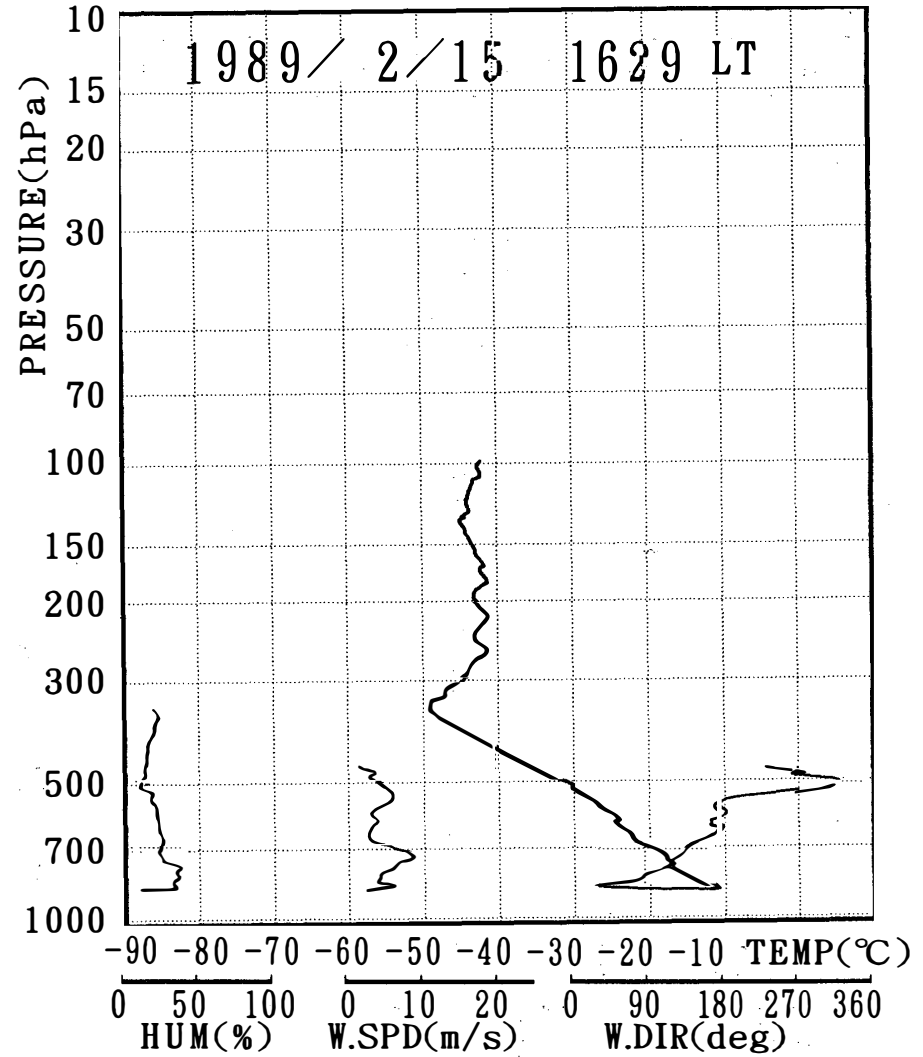


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Feb. 15 16h29m 1 00901 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-220					: 865.2	-12.0	14	: 865.2	170	3.0
: 850	1066	-11.1	37	29	6.6	: 859.3	-10.8	38	: 859.3	80	4.0
: 700	2532	-18.5	27	139	6.2	: 766.3	-16.6	38	: 853.9	46	5.4
: 500	4979	-31.0	14	313	4.3	: 720.1	-17.1	26	: 842.3	27	6.8
: 400	6523	-42.5	21	///	///	: 670.8	-21.3	29	: 818.7	84	4.8
: 300	8432	-44.8	///	///	///	: 601.8	-23.4	24	: 731.4	127	9.3
: 250	9662	-41.7	///	///	///	: 516.9	-29.6	13	: 660.3	164	3.2
: 200	11173	-42.8	///	///	///	: 499.1	-31.1	14	: 644.7	175	3.3
: 150	13116	-43.3	///	///	///	: 361.4	-47.3	26	: 606.2	169	4.4
: 100	15840	-42.4	///	///	///	: T 346.8	-48.7	22	: 592.6	182	3.6
									: 314.6	182	6.2
									: 298.8	303	5.6
									: 287.6	319	5.0
									: 256.9	313	4.3
									: 133.2	261	3.3
									: 100.2	284	4.0
									: 98.1	235	1.9

ASUKA

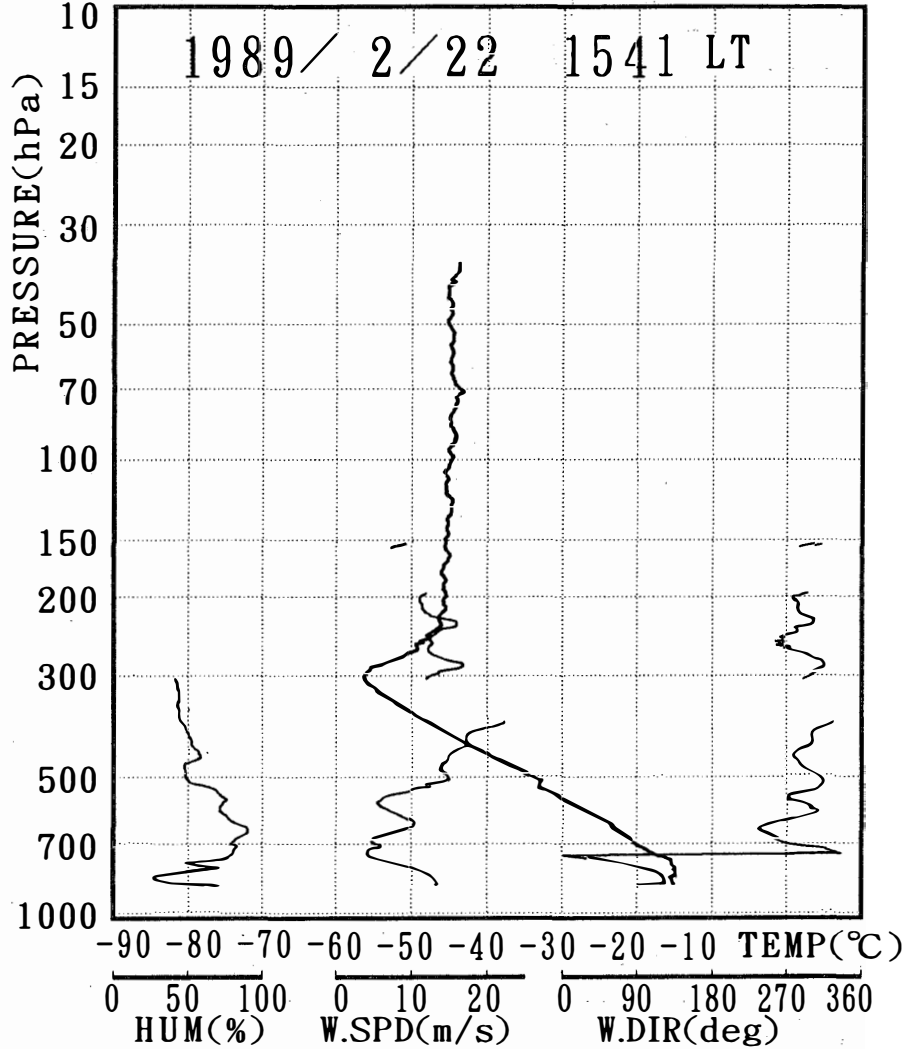


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Feb. 22 15h41m 7 70/5/ 03

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-157					: 871.2	-15.2	70	: 871.2	90	13.0
: 850	1115	-15.4	31	122	13.1	: 865.4	-15.2	45	: 865.4	123	13.3
: 700	2575	-20.0	78	276	5.3	: 832.8	-15.1	26	: 793.7	96	9.8
: 500	4997	-34.2	48	307	14.7	: 793.7	-15.1	70	: 756.8	37	5.0
: 400	6521	-45.7	50	302	17.7	: 775.0	-15.5	47	: 740.6	1	4.0
: 300	8386	-56.4		297	12.3	: 756.8	-16.2	76	: 735.0	336	4.1
: 250	9565	-48.8		265	12.5	: 646.6	-23.5	90	: 716.7	318	5.8
: 200	11046	-45.6		281	11.1	: 631.4	-23.9	83	: 695.7	266	5.0
: 150	12963	-45.6	///	///	///	: 530.2	-33.2	68	: 651.6	234	9.2
: 100	15668	-44.8	///	///	///	: 511.6	-32.8	51	: 631.4	258	10.3
: 70	18056	-43.7	///	///	///	: 498.4	-34.3	48	: 599.3	308	8.0
: 50	20308	-45.1	///	///	///	: 415.7	-44.0	52	: 565.7	270	5.4
: 30	23733					: 330.2	-54.1	43	: 552.6	272	6.2
:						: 310.5	-56.0	42	: 539.4	303	9.0
:						: T 303.8	-56.4	41	: 520.4	314	11.7
:						: 262.5	-49.3		: 507.2	312	14.7
:						: 258.9	-49.3		: 451.3	278	14.7
:						: 231.2	-46.0		: 423.3	301	17.4
:						: 100.0	-44.8		: 400.1	302	17.7
:						: 36.6	-43.7		: 379.8	326	22.2
:									: 377.0	///	///
:									: 303.8	290	11.9
:									: 281.7	314	16.8
:									: 253.9	256	12.7
:									: 231.2	302	15.9
:									: 200.8	278	11.0
:									: 195.6	295	11.9
:									: 194.3	///	///
:									: 156.4	285	7.2
:									: 153.0	312	9.3

ASUKA

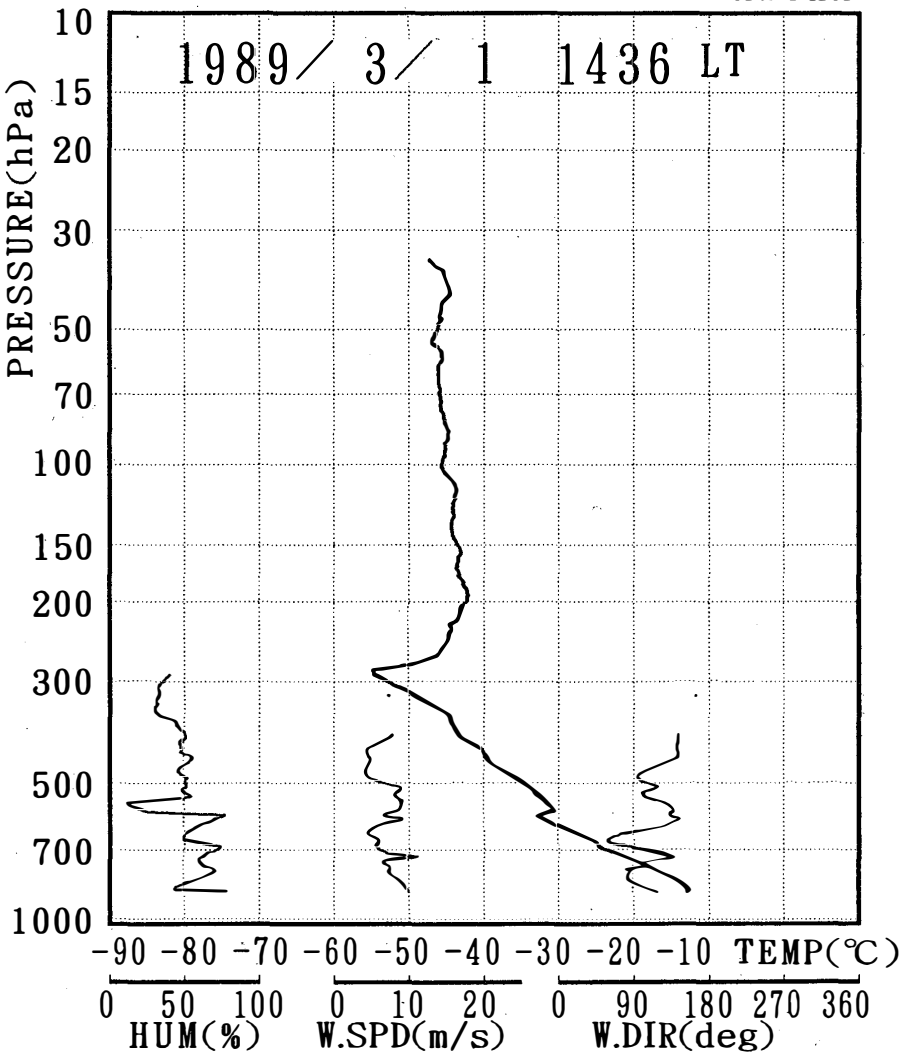


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Mar. 1 14h36m 2 20/30 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-206					: 866.0	-12.9	79	: 866.0	120	10.0
: 850	1073	-12.7	44	107	9.7	: 859.1	-12.4	44	: 816.7	85	8.6
: 700	2526	-23.5	71	114	6.3	: 811.2	-14.4	61	: 774.4	81	7.6
: 500	4921	-34.6	51	109	7.3	: 784.9	-16.6	71	: 763.3	105	7.5
: 400	6454	-42.5	49	144	7.0	: 686.6	-24.8	74	: 747.7	103	6.7
: 300	8363	-52.6	36	///	///	: 665.8	-25.6	50	: 727.1	139	11.2
: 250	9555	-45.3	///	///	///	: 590.7	-32.7	75	: 701.3	114	6.3
: 200	11052	-42.4	///	///	///	: 586.3	-32.1	77	: 676.3	63	5.9
: 150	12991	-43.5	///	///	///	: 578.2	-31.0	26	: 665.8	60	6.1
: 100	15708	-45.7	///	///	///	: 574.1	-30.5	23	: 646.7	74	4.6
: 70	18088	-45.9	///	///	///	: 554.5	-31.5	12	: 627.9	125	5.5
: 50	20324	-46.3	///	///	///	: 538.3	-32.1	55	: 599.7	146	9.2
: 30	23716					: 486.3	-35.3	52	: 590.7	133	6.7
						: 453.5	-39.0	52	: 562.6	134	9.1
						: 416.4	-40.5	48	: 533.9	102	8.2
						: 395.1	-43.1	51	: 509.6	120	8.9
						: 354.8	-44.5	34	: 482.7	96	4.6
						: 347.0	-45.5	31	: 438.0	144	4.8
						: T 288.0	-54.6	41	: 390.0	145	7.9
						: 282.1	-54.7	///	: 387.7	///	///
						: 273.4	-49.0	///	: 322.4	164	7.5
						: 267.5	-47.6	///	: 320.2	164	7.3
						: 262.1	-46.1	///			
						: 198.4	-42.2	///			
						: 100.4	-45.7	///			
						: 52.7	-46.8	///			
						: 41.9	-44.4	///			
						: 34.8	-47.3	///			

ASUKA

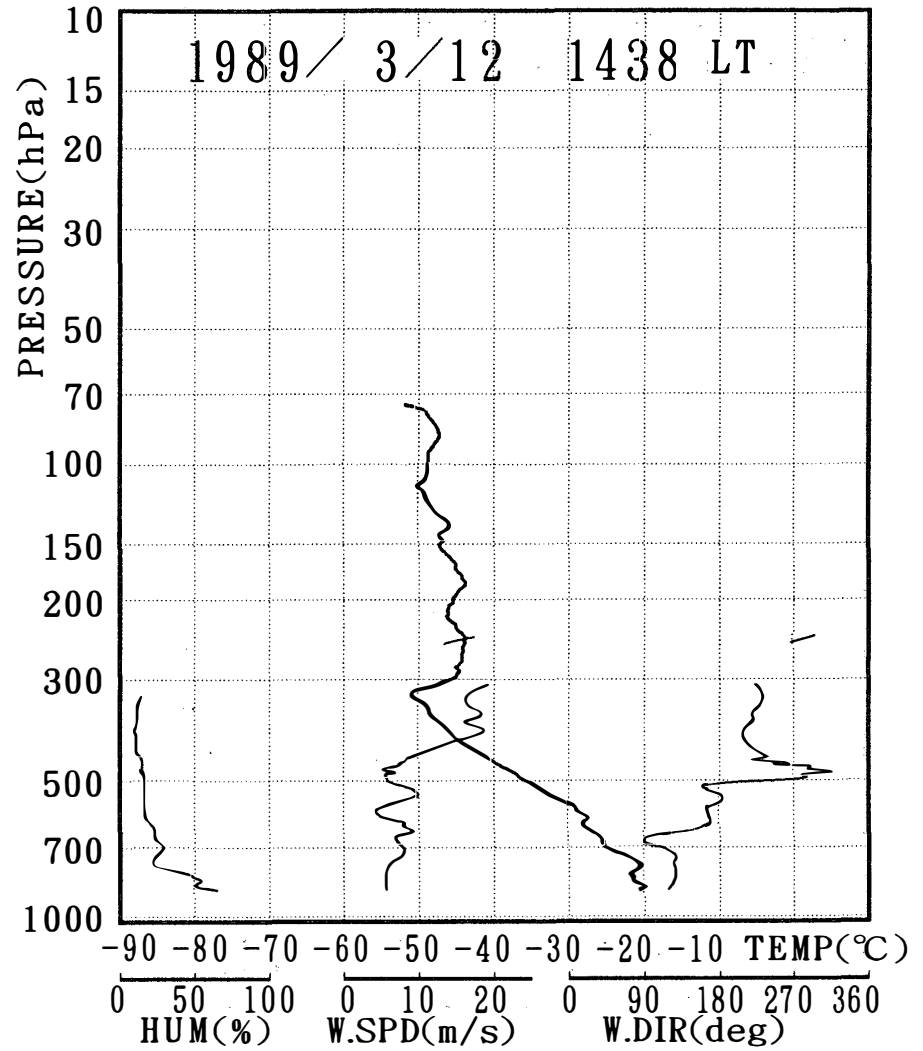


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Mar. 12 14h38m 0 00900 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-113					873.5	-20.6	66	873.5	121	5.8
850	1132	-20.2	51	125	5.7	861.8	-19.7	54	737.7	130	7.7
700	2562	-25.1	30	112	8.0	802.9	-21.8	48	700.0	112	8.0
500	4964	-35.6	17	240	5.9	768.6	-20.2	23	689.6	94	7.5
400	6483	-45.3	11	210	17.1	705.3	-24.8	30	670.2	92	6.9
300	8378	-46.2	///	///	///	630.2	-28.0	24	635.1	161	8.4
250	9599	-44.0	268	13.3	///	603.3	-27.3	17	574.1	165	4.9
200	11087	-45.5	///	///	///	421.6	-43.4	11	544.3	185	9.3
150	13007	-47.3	///	///	///	360.2	-48.4	12	515.0	162	8.0
100	15680	-48.8	///	///	///	T 325.4	-50.8	15	503.9	206	6.3
70	18019					322.5	-50.9		496.2	276	5.7
						295.7	-45.1		488.5	280	5.6
						182.2	-43.9		481.2	317	7.0
						150.5	-47.3		473.8	287	5.3
						T 135.6	-45.8		466.6	290	6.8
						111.3	-50.2		463.1	247	7.6
						100.2	-48.8		459.7	265	7.4
						85.2	-47.3		452.7	220	8.4
						73.7	-51.8		445.8	241	8.8
									401.4	210	17.1
									392.2	210	18.7
									331.2	234	16.3
									307.7	225	19.4
									305.7	///	///
									249.9	268	13.3
									241.0	297	17.3

ASUKA

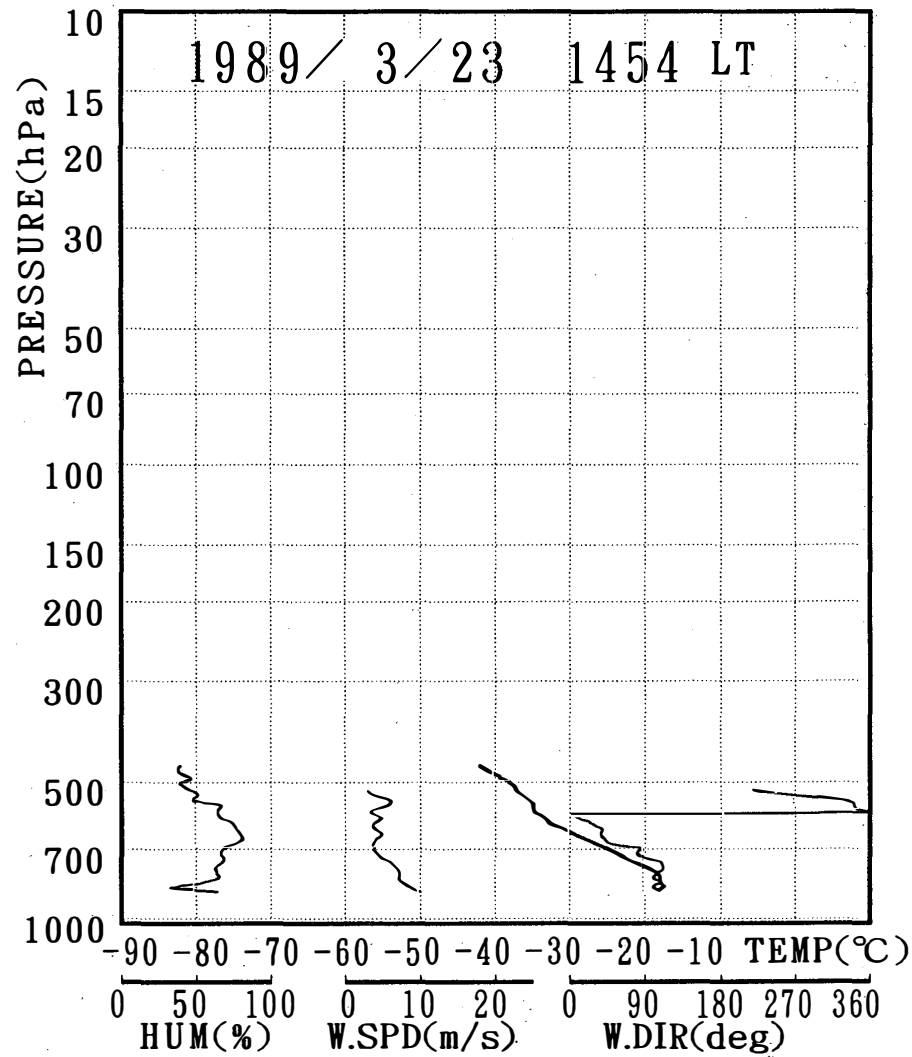


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Mar. 23 14h54m 7 26/5/ 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-179					: 867.5	-17.9	64	: 867.5	110	10.0
: 850	1083	-17.3	35	102	8.7	: 853.9	-17.5	33	: 811.8	102	7.2
: 700	2521	-24.9	68	85	3.8	: 847.6	-17.2	37	: 752.0	112	6.3
: 500	4890	-38.0	39	///	////	: 811.8	-17.8	64	: 724.3	84	4.7
:						: 793.4	-18.1	63	: 697.6	85	3.8
:						: 665.8	-27.9	82	: 676.4	45	4.0
:						: 616.5	-32.4	75	: 629.6	37	4.0
:						: 509.9	-37.2	42	: 551.7	334	6.2
:						: 458.6	-41.9	41	: 520.3	221	3.1

ASUKA

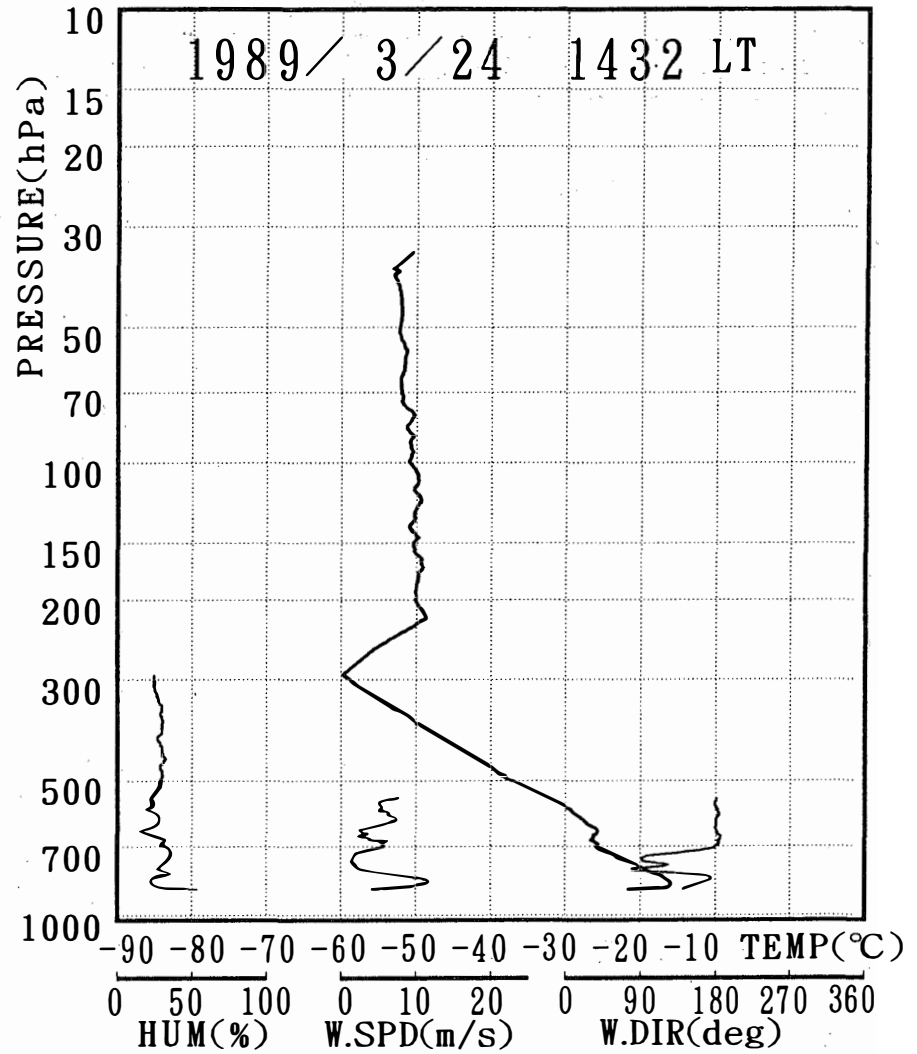


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Mar. 24 14h32m 1 00902 02

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-157					: 869.9	-21.8	53	: 869.9	140	3.9
: 850	1103	-16.1	23	159	10.8	: 864.3	-16.7	29	: 834.7	170	11.6
: 700	2538	-25.7	32	178	5.5	: 853.9	-16.1	25	: 830.2	173	11.2
: 500	4938	-37.0	28	///	///	: 816.9	-17.2	25	: 816.9	170	8.8
: 400	6448	-47.0	27	///	///	: 725.2	-24.1	36	: 807.2	152	6.7
: 300	8302	-58.8	24	///	///	: 709.1	-25.5	34	: 789.3	79	2.9
: 250	9452	-54.6		///	///	: 647.0	-25.7	15	: 779.5	100	1.9
: 200	10905	-50.1		///	///	: 643.7	-25.7	15	: 768.9	124	1.6
: 150	12786	-50.5		///	///	: 577.9	-29.3	19	: 754.3	94	1.2
: 100	15433	-50.9		///	///	: 482.5	-39.0	30	: 735.3	97	1.5
: 70	17753	-52.0		///	///	: 449.4	-41.9	32	: 713.9	160	3.2
: 50	19933	-52.3		///	///	: T 291.1	-59.8	25	: 695.7	182	5.7
: 30	23247					: 220.8	-49.1		: 545.7	181	7.7
						: 219.0	-48.7				
						: 100.3	-50.8				
						: 37.2	-53.2				
						: 34.2	-50.6				

ASUKA

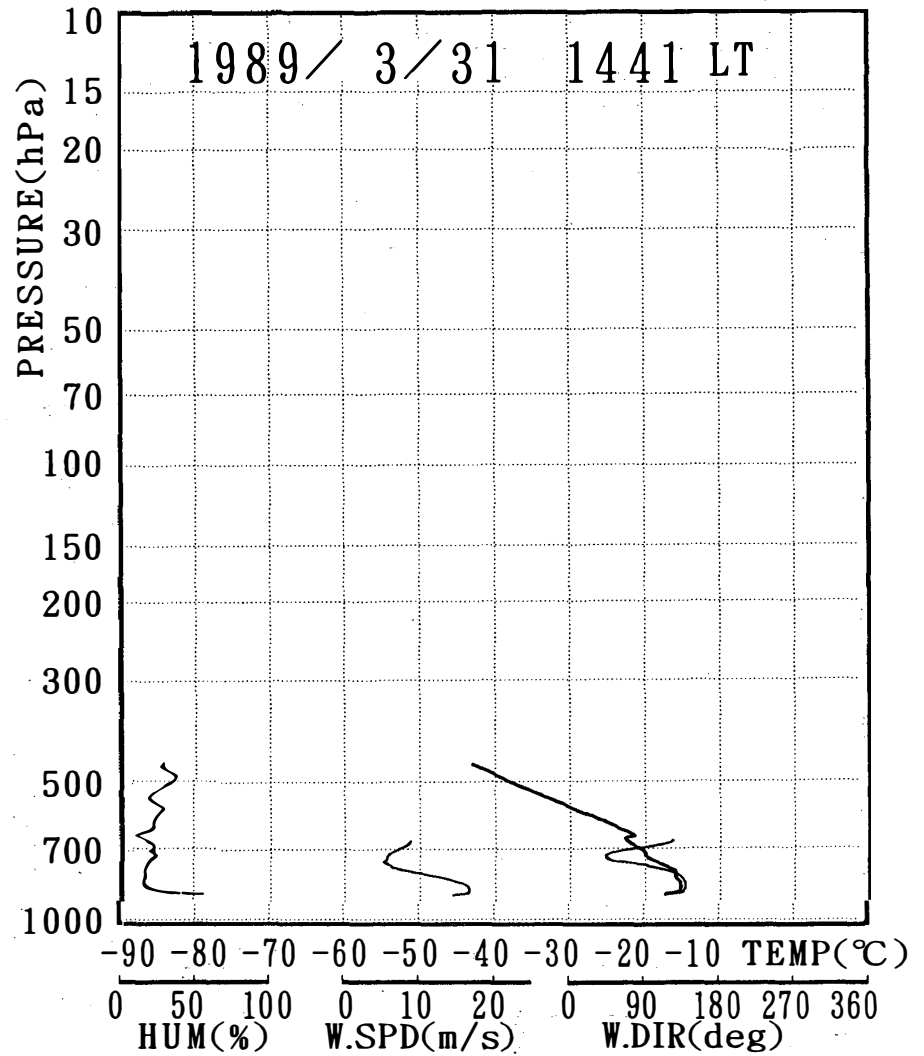


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Mar. 31 14h41m 1 10/41 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-91					878.0	-17.5	56	878.0	120	14.3
850	1174	-15.2	19	138	16.4	871.8	-16.3	31	871.8	135	16.3
700	2628	-20.6	24	75	7.0	865.6	-15.3	26	853.9	138	16.5
500	5043	-38.0	37	///	///	781.2	-16.0	18	803.3	132	12.4
						730.0	-19.8	25	760.2	91	6.1
						666.8	-22.8	18	744.7	51	5.1
						657.6	-21.4	13	725.4	42	5.6
						653.4	-21.6	12	671.5	123	8.7
						455.5	-43.1	31			

ASUKA

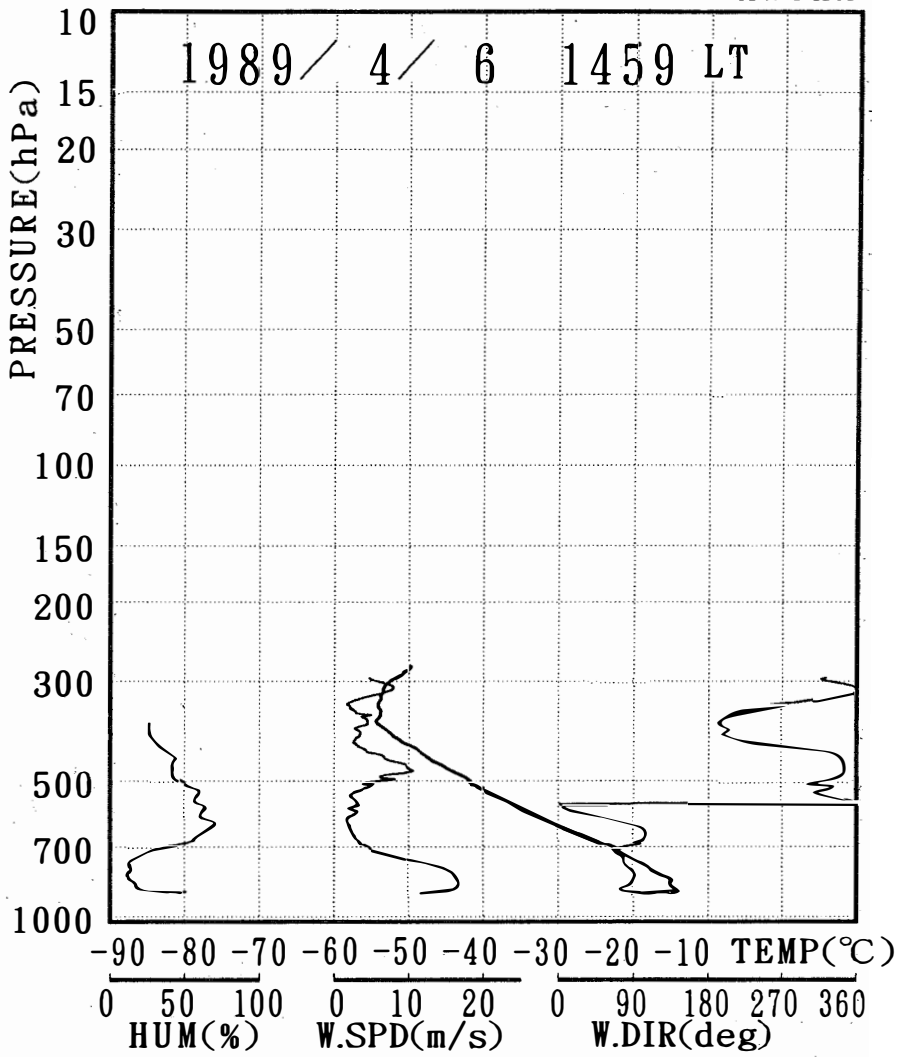


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
 1989 Apr. 6 14h59m 6 20/34 02

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-78					: 879.4	-18.2	51	: 879.4	140	11.6
: 850	1187	-14.6	18	82	16.7	: 873.0	-16.0	26	: 873.0	94	14.4
: 700	2638	-22.6	35	75	4.6	: 866.4	-13.8	22	: 859.7	75	16.2
: 500	5009	-41.7	48	310	5.8	: 822.7	-14.7	14	: 804.1	93	16.2
: 400	6487	-51.8	30	218	2.8	: 751.7	-18.8	13	: 786.4	91	15.7
: 300	8336	-52.8		335	6.3	: 704.9	-22.2	31	: 704.9	67	4.8
: 250	9530					: 677.8	-24.7	55	: 688.4	98	3.7
:						: 619.1	-30.3	71	: 624.1	97	2.0
:						: 575.1	-34.6	63	: 575.1	13	2.8
:						: 450.4	-46.8	43	: 543.1	345	2.7
:						: 367.6	-54.5	27	: 533.2	322	2.1
:						: 310.6	-53.5		: 523.5	309	2.7
:						: 285.9	-50.6		: 507.4	333	5.2
:						: 281.6	-50.2		: 503.3	301	3.8
:						: 274.7	-49.7		: 495.1	336	8.1
:									: 475.5	347	10.6
:									: 438.5	346	6.4
:									: 426.9	330	4.2
:									: 412.3	249	2.8
:									: 408.7	235	2.5
:									: 398.2	210	3.1
:									: 364.4	193	4.5
:									: 343.0	223	2.0
:									: 330.2	301	2.5
:									: 315.6	355	6.7
:									: 308.1	358	7.9
:									: 295.3	316	4.8
:									: 293.1	323	4.6

ASUKA



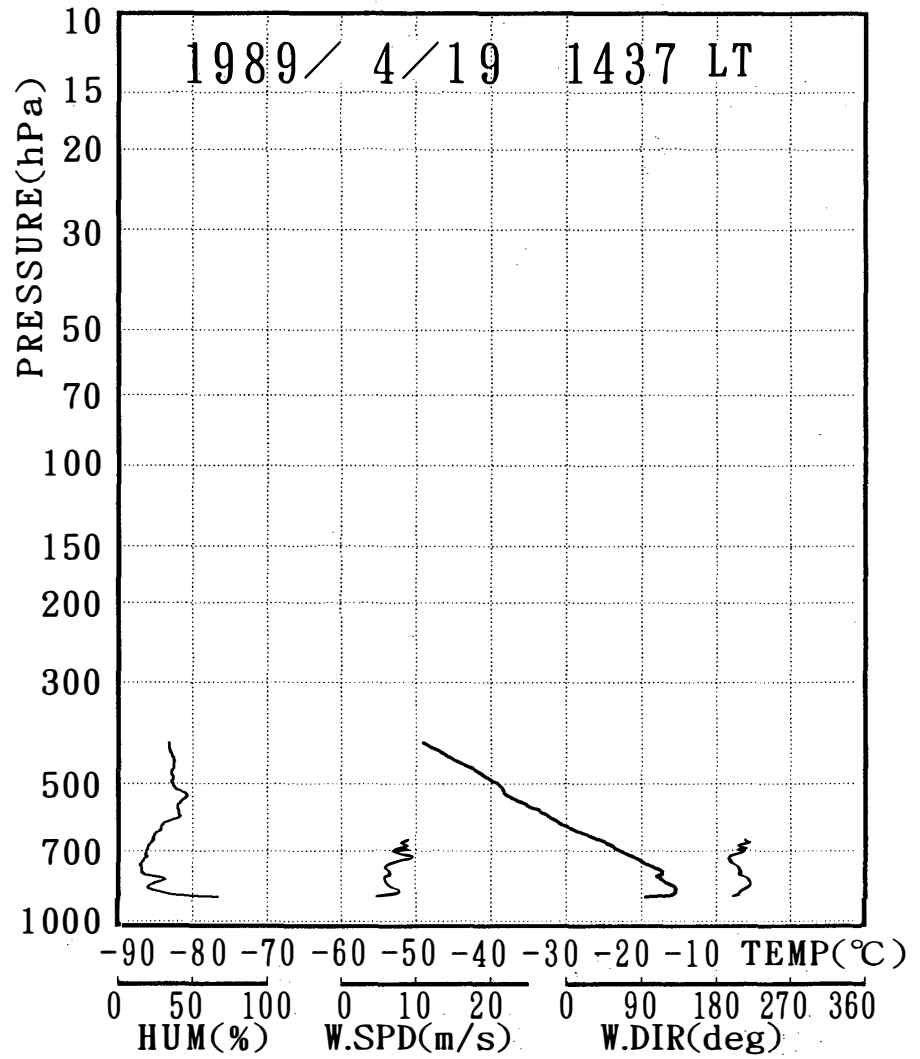


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Apr. 19 14h37m 2 00902 02

STANDARD LEVELS							TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V	
1000	-56					881.3	-19.6	67	881.3	200	4.7	
850	1204	-15.5	23	215	7.5	875.2	-16.3	40	832.0	222	6.5	
700	2650	-22.8	19	207	9.3	862.7	-15.5	30	729.8	196	9.2	
500	5029	-39.0	37	///	///	843.7	-15.4	20	703.6	217	6.9	
						793.4	-18.0	24	697.7	207	9.3	
						773.7	-17.2	16	692.3	219	7.3	
						612.3	-30.6	30	682.7	208	9.0	
						532.6	-37.5	46	672.3	223	8.1	
						527.7	-38.0	46	662.4	216	9.1	
						495.9	-39.2	36				
						404.7	-49.2	34				

ASUKA

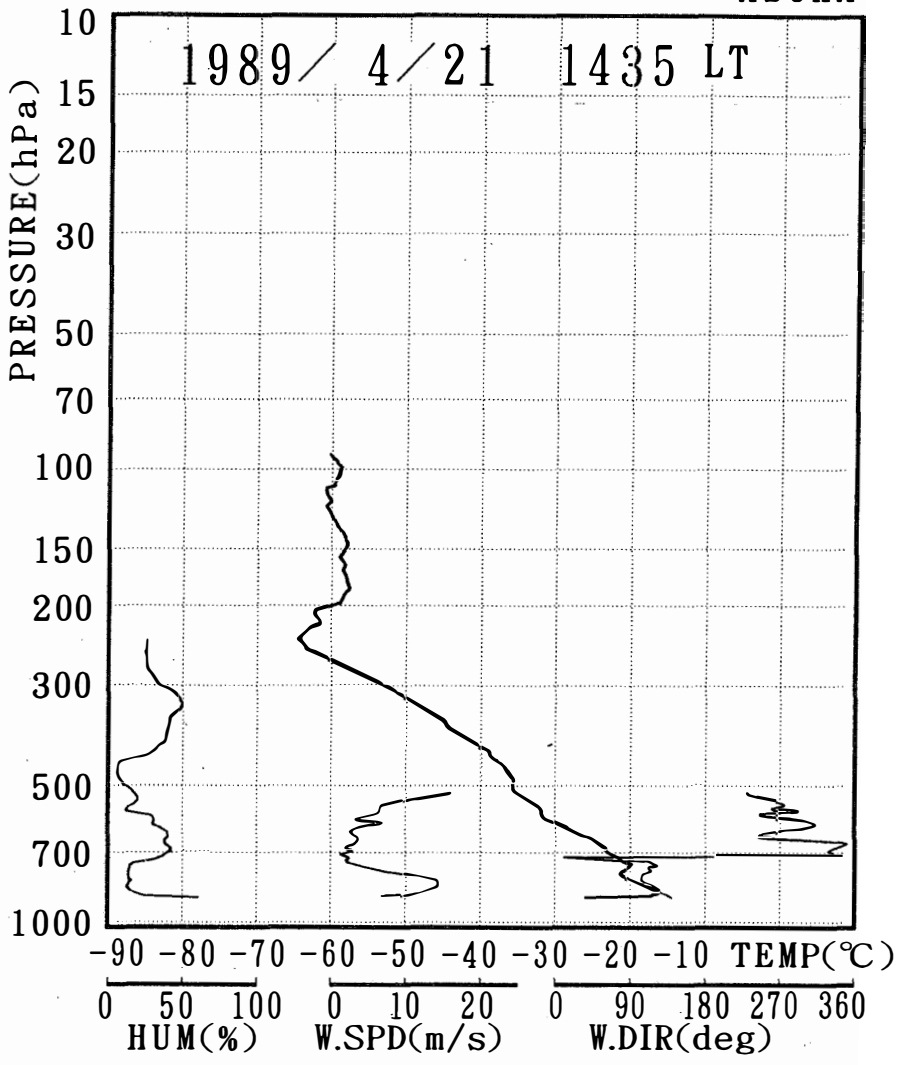


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Apr. 21 14h35m 6 00902 03

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-74					: 878.3	-26.0	61	: 878.3	140	6.7
: 850	1176	-16.8	16	126	12.4	: 872.0	-17.4	25	: 809.6	103	14.1
: 700	2613	-22.8	40	334	2.1	: 859.1	-16.3	19	: 803.9	104	14.1
: 500	5008	-35.7	13	///	///	: 780.3	-21.4	14	: 752.6	122	4.6
: 400	6545	-41.4	38	///	///	: 763.5	-20.7	14	: 736.8	113	2.5
: 300	8450	-52.9	36	///	///	: 747.3	-19.9	15	: 731.4	101	2.1
: 250	9599	-63.3	26	///	///	: 694.0	-23.2	42	: 710.1	344	1.8
: 200	10972	-60.3	///	///	///	: 590.3	-31.5	31	: 704.4	333	1.2
: 150	12781	-58.2	///	///	///	: 564.6	-32.0	12	: 694.0	327	2.9
: 100	15316	-59.0	///	///	///	: 511.9	-35.7	16	: 666.9	351	3.2
:						: 486.3	-35.7	8	: 661.7	340	3.4
:						: 449.4	-37.3	6	: 651.5	257	3.5
:						: 421.1	-39.0	30	: 646.3	243	3.3
:						: 403.8	-41.0	37	: 635.6	255	2.8
:						: 326.5	-49.1	49	: 624.5	296	2.9
:						: 304.8	-52.1	41	: 614.0	312	4.6
:						: 249.1	-63.6	26	: 600.0	299	4.5
:						: T 237.0	-64.7	26	: 595.2	286	3.2
:						: 205.3	-62.4		: 585.0	244	5.0
:						: 196.5	-58.9		: 579.6	244	5.7
:						: 181.8	-57.7		: 574.6	290	6.3
:						: 145.8	-57.9		: 569.6	291	6.4
:						: 120.1	-60.8		: 564.6	263	6.4
:						: 100.0	-59.0		: 546.7	274	8.2
:						: 92.0	-60.4		: 519.9	228	15.8
:									: 515.6	///	///
:									: 403.8	247	29.5

ASUKA

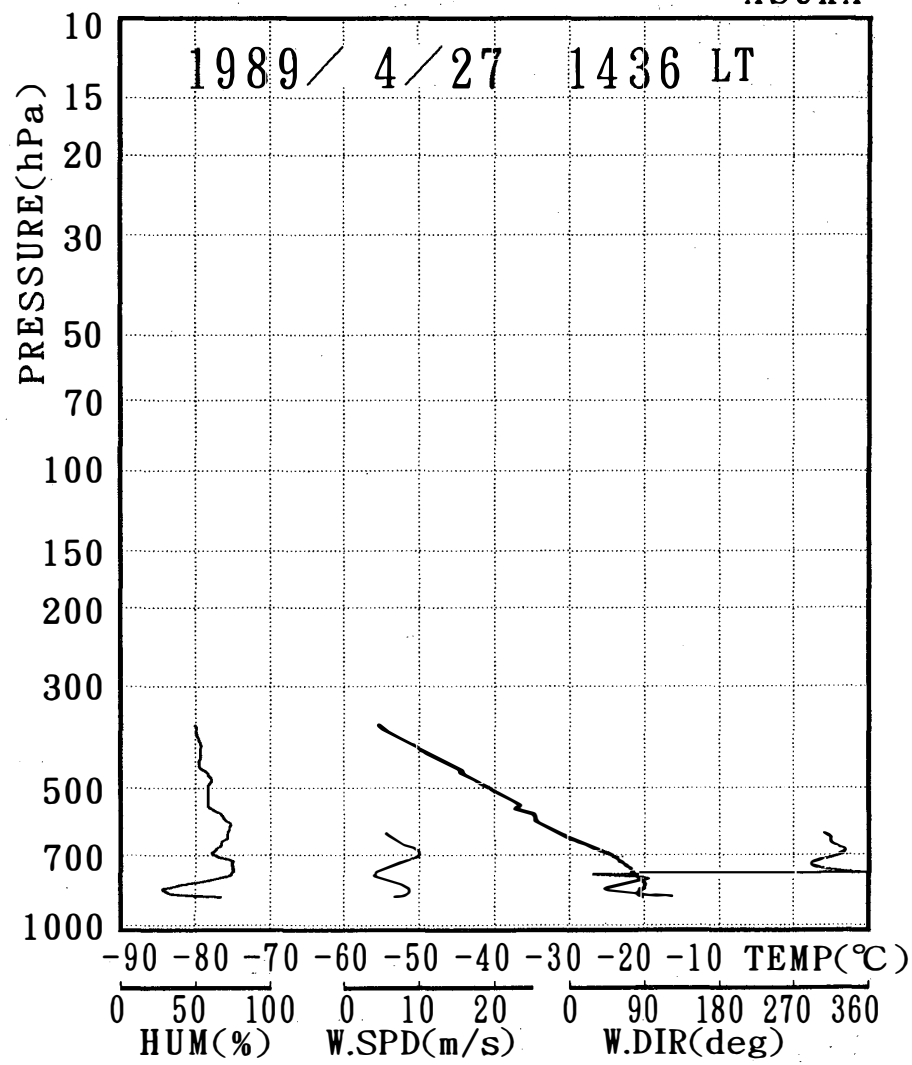


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Apr. 27 14h36m 3 16/32 36

: P	STANDARD LEVELS					TEMP & HUM SIG.L			WIND SIG.L		
	H	T	U	D	V	P	T	U	P	D	V
: 1000	-216					: 862.5	-20.1	67	: 862.5	125	6.8
: 850	1038	-20.8	34	79	8.4	: 851.4	-20.8	35	: 845.3	62	8.7
: 700	2469	-24.4	63	323	9.8	: 826.4	-20.0	28	: 832.6	43	8.8
: 500	4830	-40.6	58	///	///	: 805.7	-20.0	46	: 787.4	96	5.2
: 400	6316	-51.0	53	///	///	: 776.1	-21.0	72	: 781.6	87	4.6
:						: 711.3	-23.6	69	: 758.9	334	4.6
:						: 607.7	-33.2	72	: 742.7	297	5.9
:						: 571.4	-34.6	67	: 727.1	294	7.6
:						: 556.2	-37.2	61	: 685.3	334	9.9
:						: 546.5	-36.4	58	: 628.2	308	5.7
:						: 363.8	-55.4	49			

ASUKA

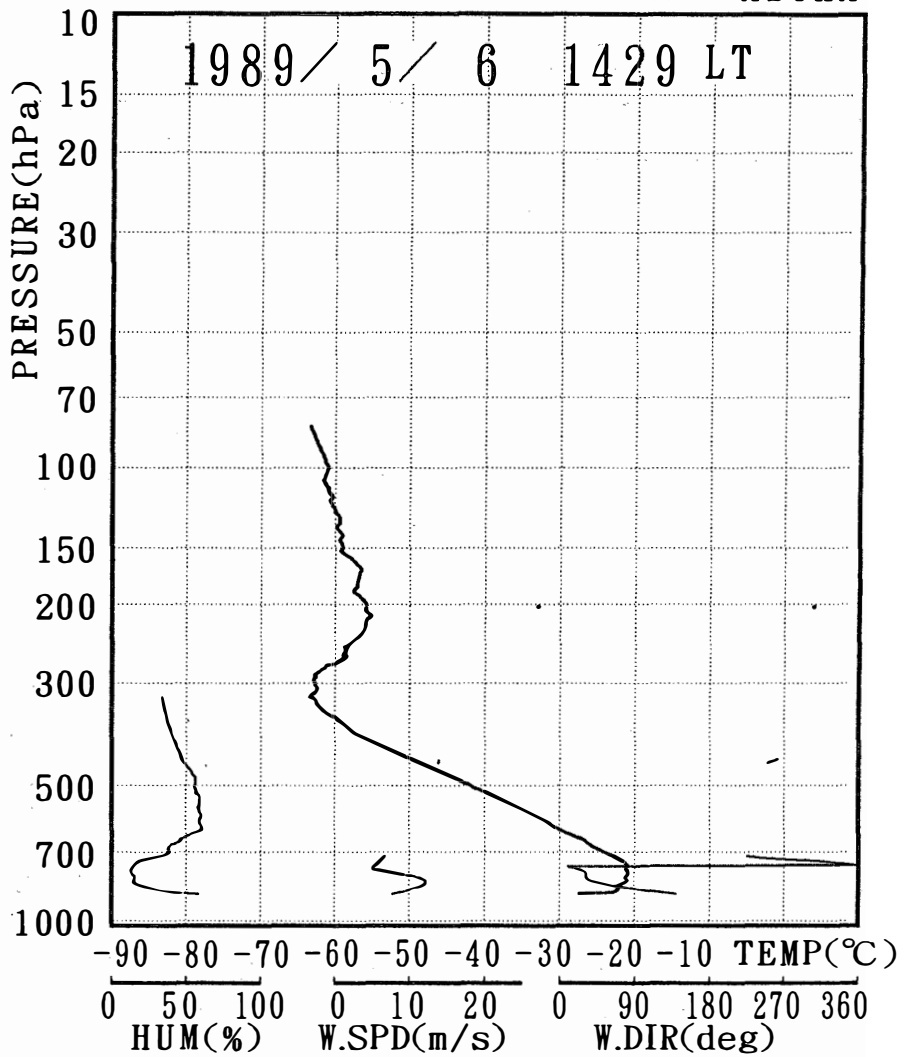


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 May 6 14h29m 7 20/32 02

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-166					867.4	-27.5	58	867.4	140	7.7
850	1077	-22.3	31	95	10.4	860.5	-23.0	44	819.9	48	12.2
700	2507	-24.0	37	///	///	846.6	-22.2	28	813.0	41	12.2
500	4877	-41.8	56	///	///	826.6	-22.3	19	763.3	24	5.1
400	6345	-55.0	42	///	///	806.0	-21.0	15	757.8	17	5.0
300	8137	-62.7		///	///	763.3	-21.2	13	742.4	346	5.7
250	9271	-58.8		///	///	747.3	-20.9	16	714.8	225	6.7
200	10686	-55.8		///	///	622.1	-30.1	61	709.1	///	///
150	12504	-59.1		///	///	567.0	-34.3	59	447.3	250	13.8
100	15032	-61.0		///	///	559.1	-35.4	58	438.9	263	13.9
70	17225					551.0	-36.3	59	434.9	///	///
						519.3	-39.4	56	202.5	305	27.1
						396.9	-55.7	42			
						T 319.6	-63.4	34			
							227.7	-56.1			
							210.1	-55.4			
							166.2	-56.6			
							100.7	-61.1			
							80.5	-63.5			

ASUKA

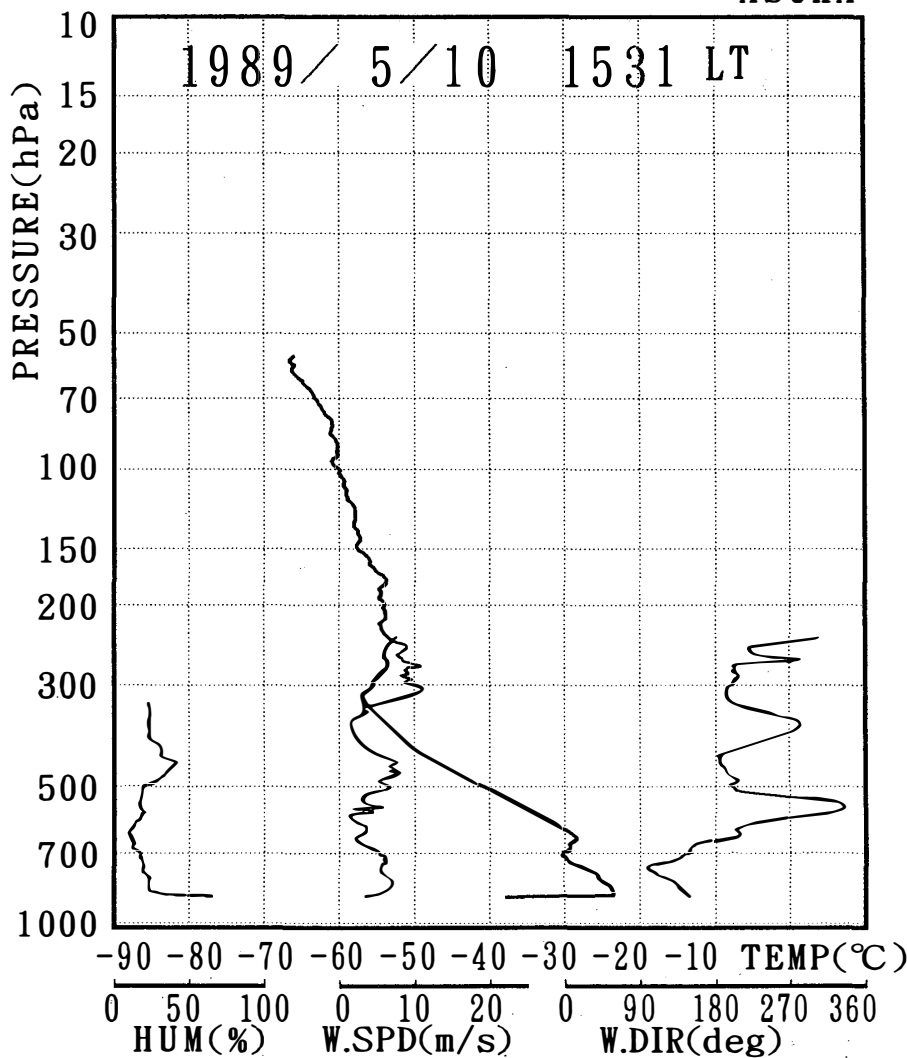


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 May 10 15h31m 0 00900 02

: P	STANDARD LEVELS					TEMP & HUM SIG. L			WIND SIG. L		
	H	T	U	D	V	P	T	U	P	D	V
: 1000	-118					: 870.8	-37.9	65	: 870.8	150	3.4
: 850	1106	-23.5	25	143	5.9	: 864.3	-23.6	35	: 753.5	99	5.6
: 700	2507	-30.3	18	147	5.3	: 857.8	-23.5	29	: 713.1	141	6.1
: 500	4871	-40.7	20	201	6.7	: 777.4	-25.7	20	: 668.9	158	2.9
: 400	6352	-51.1	27	237	2.7	: 730.0	-29.4	19	: 644.5	207	2.3
: 300	8191	-55.6		197	9.9	: 707.3	-30.4	18	: 620.1	204	3.4
: 250	9359	-53.9		222	8.6	: 684.6	-29.3	12	: 607.0	218	2.8
: 200	10792	-54.1	///	///		: 649.4	-28.3	12	: 593.3	243	1.8
: 150	12628	-57.6	///	///		: 543.1	-36.3	17	: 578.4	296	1.3
: 100	15177	-60.0	///	///		: 452.6	-46.6	39	: 569.3	323	4.5
: 70	17391	-63.1	///	///		: 445.0	-47.4	42	: 543.1	332	3.3
: 50	19437					: 411.2	-50.7	32	: 534.2	314	2.9
						: T 326.8	-56.8	23	: 522.2	249	3.3
						: 265.4	-53.5		: 509.1	204	5.8
						: 175.5	-53.8		: 485.6	208	5.2
						: 149.4	-57.7		: 466.8	194	8.1
						: 100.5	-59.9		: 452.6	191	6.6
						: 77.7	-61.0		: 445.0	184	7.6
						: 55.9	-65.9		: 427.7	182	5.2
									: 411.2	216	3.4
									: 397.0	244	2.5
									: 366.9	283	1.6
									: 358.8	280	1.6
									: 356.1	276	1.7
									: 341.7	245	3.8
									: 338.8	224	3.0
									: 321.6	196	7.3
									: 307.7	194	11.0
									: 287.5	208	8.6
									: 271.9	201	10.8
									: 269.7	206	10.5
									: 265.4	267	8.4
									: 263.2	283	8.4
									: 260.9	254	8.2
									: 256.7	228	7.7
									: 248.1	220	8.9
									: 244.1	234	8.8
									: 238.2	292	7.0
									: 234.7	306	7.6

ASUKA

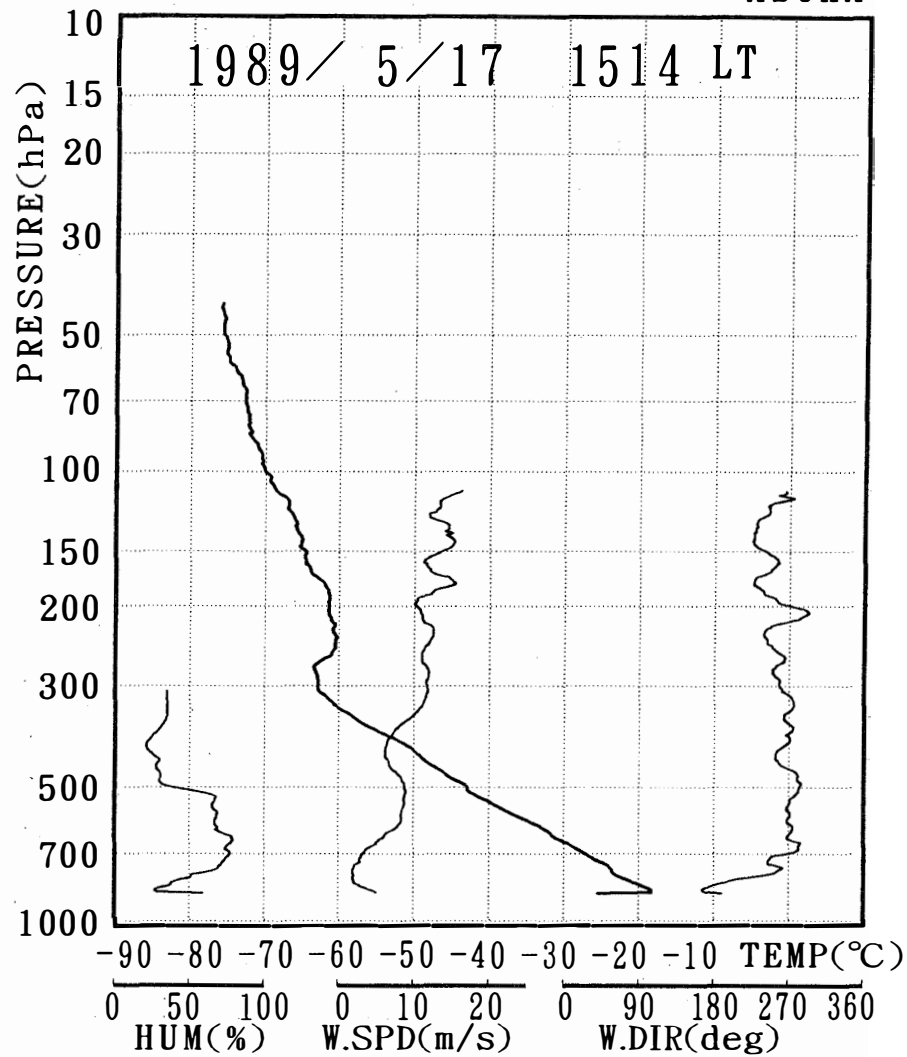


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 May 17 15h14m 6 40/76 02

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-293					853.8	-25.6	59	853.8	190	5.0
850	963	-21.2	41	171	5.0	847.4	-18.3	29	847.4	171	5.0
700	2387	-27.1	77	265	3.2	775.9	-23.1	51	830.0	169	3.5
500	4733	-42.8	41	282	8.8	751.5	-23.8	69	794.3	207	1.9
400	6208	-51.4	21	268	6.4	733.9	-24.5	71	775.9	245	2.0
300	8020	-62.9		259	11.7	639.3	-31.3	79	751.5	263	2.0
250	9144	-60.8		253	11.2	523.9	-41.4	68	733.9	244	2.4
200	10531	-61.4		278	10.4	510.4	-42.7	55	711.0	248	3.0
150	12302	-64.5		242	13.4	492.8	-43.2	32	681.2	282	3.7
100	14752	-70.0	///	///		408.3	-50.4	21	659.2	285	5.1
70	16857	-72.7	///	///		359.2	-57.1	33	644.8	268	5.9
50	18818	-75.6	///	///		305.9	-62.7	35	553.4	267	8.6
						300.7	-62.9		488.5	285	8.7
						233.9	-60.3		432.8	254	6.5
						204.9	-61.5		370.7	275	7.6
						100.5	-69.8		352.0	263	9.4
						T 95.8	-70.6		323.9	276	11.2
						42.4	-75.9		278.5	250	12.0
									258.6	265	11.0
									227.0	239	12.5
									206.4	293	10.8
									196.5	258	10.0
									177.9	226	15.4
									158.3	257	11.1
									141.6	225	15.3
									118.8	243	13.4
									114.3	275	13.8
									112.5	255	14.8
									109.8	264	16.2

ASUKA

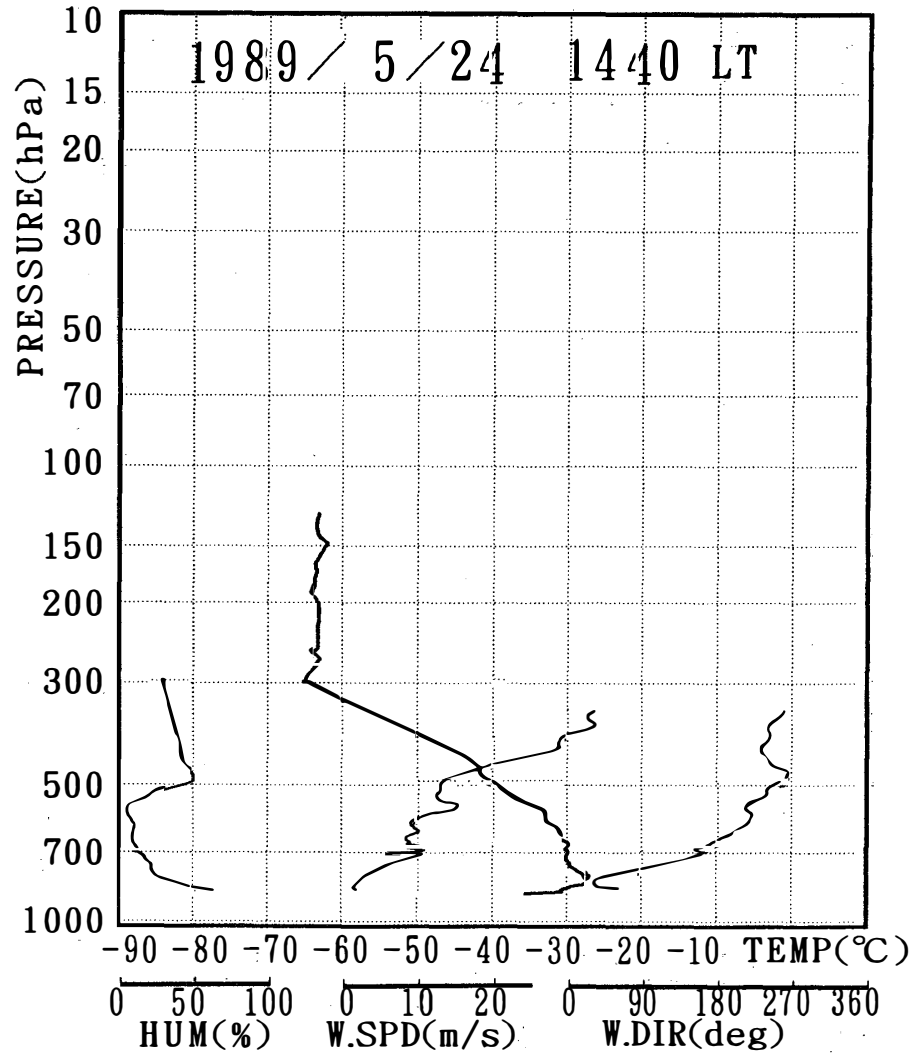


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 May 24 14h40m 6 00902 02

STANDARD LEVELS							TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V	
: 1000	-188					: 861.7	-35.7	62	: 861.7	60	1.7	
: 850	1025	-30.8	49	33	1.4	: 854.7	-30.7	54	: 854.7	35	1.3	
: 700	2414	-29.9	12	165	9.8	: 848.2	-30.9	47	: 818.3	36	2.3	
: 500	4769	-40.2	43	262	13.4	: 812.0	-27.3	29	: 742.0	142	7.6	
: 400	6268	-48.9	40	243	29.0	: 805.7	-27.2	27	: 719.7	162	10.6	
: 300	8087	-64.9	29	///	///	: 748.4	-29.7	21	: 708.6	153	6.0	
: 250	9204	-63.3		///	///	: 670.4	-29.8	8	: 703.0	156	6.0	
: 200	10575	-63.2		///	///	: 582.4	-33.2	5	: 621.5	216	9.1	
: 150	12341	-62.2		///	///	: 553.6	-36.1	6	: 567.5	214	15.2	
:						: 540.4	-37.5	16	: 498.2	262	13.4	
:						: 490.0	-41.2	50	: 482.0	266	15.3	
:						: 439.6	-43.7	42	: 432.3	232	27.2	
:						: T 296.1	-65.2	29	: 425.2	232	28.4	
:						: 213.8	-63.2		: M 352.7	260	33.6	
:						: 126.5	-63.1					

ASUKA

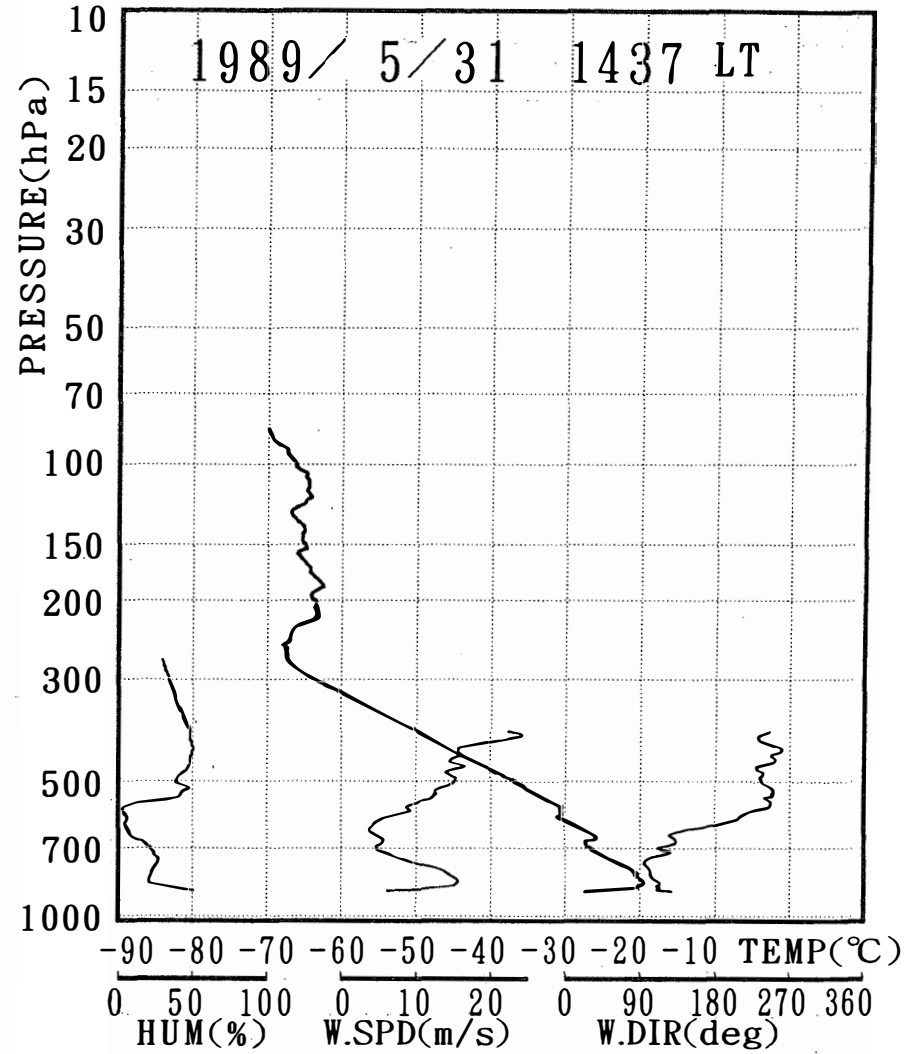


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 May 31 14h37m 2 00902 02

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-120					: 872.7	-27.4	51	: 872.7	130	6.0
: 850	1123	-20.2	29	114	14.3	: 855.5	-20.2	32	: 866.7	112	10.4
: 700	2549	-26.4	22	115	4.7	: 835.5	-19.6	22	: 826.2	114	15.6
: 500	4942	-36.5	39	237	15.0	: 830.8	-19.4	21	: 743.7	97	8.8
: 400	6448	-48.5	48	232	23.4	: 688.6	-27.2	20	: 711.0	128	5.7
: 300	8279	-63.3	35	///	///	: 661.3	-25.8	10	: 702.4	115	4.7
: 250	9383	-67.8		///	///	: 594.6	-30.9	6	: 697.6	110	4.6
: 200	10742	-63.6		///	///	: 574.9	-30.6	3	: 680.4	132	5.5
: 150	12501	-65.0		///	///	: 564.2	-30.5	7	: 647.0	129	4.2
: 100	14968	-66.3		///	///	: 542.9	-32.6	40	: 609.6	198	4.7
: 70	17090					: 420.9	-46.1	50	: 578.6	221	9.3
						: 294.9	-64.2	34	: 564.2	247	9.0
						T 267.9	-67.4	30	: 539.7	239	12.2
						: 232.9	-66.7		: 521.7	251	12.6
						: 217.1	-63.1		: 463.6	230	16.4
						: 178.8	-63.4		: 450.4	253	14.4
						T 157.0	-66.1		: 423.4	262	15.5
						: 126.8	-66.9		: 400.0	232	23.4
						: 118.2	-64.2		: 388.6	247	22.4
						: 100.2	-66.3				
						: 82.8	-70.0				

ASUKA



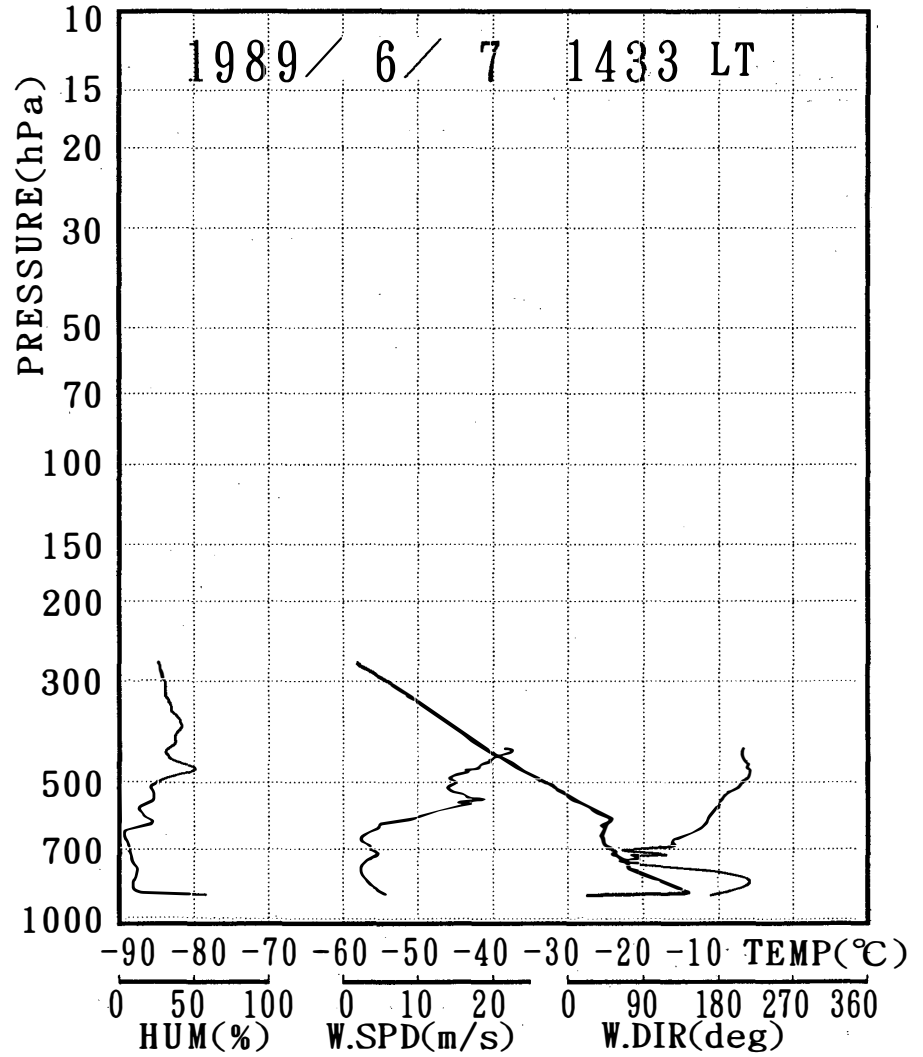


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 June 7 14h33m 2 10/32 02

: P	STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
	H	T	U	D	V	P	T	U	P	D	V	
: 1000	-21					: 884.9	-27.5	58	: 884.9	170	5.7	
: 850	1233	-15.4	10	207	4.1	: 877.7	-14.7	16	: 843.5	212	3.8	
: 700	2667	-24.3	7	91	3.6	: 870.9	-14.0	13	: 807.2	210	2.7	
: 500	5090	-33.0	26	209	15.2	: 772.1	-21.9	13	: 785.6	179	2.4	
: 400	6625	-43.3	37	///	///	: 657.6	-25.6	4	: 747.7	62	3.0	
: 300	8518	-53.8	31	///	///	: 640.9	-25.2	4	: 736.1	86	3.7	
:						: 629.7	-25.0	12	: 725.2	76	4.6	
:						: 624.1	-25.5	18	: 719.9	117	4.7	
:						: 613.7	-24.6	23	: 702.9	64	3.6	
:						: 603.1	-24.2	21	: 691.3	122	3.6	
:						: 512.7	-31.9	22	: 685.9	128	3.2	
:						: 466.0	-36.6	51	: 668.9	126	2.4	
:						: 412.5	-42.1	36	: 663.4	134	2.3	
:						: 271.7	-58.3	26	: 629.7	160	4.9	
:									: 545.3	185	18.9	
:									: 517.4	202	13.9	
:									: 486.2	217	14.5	
:									: 420.3	210	21.5	

ASUKA

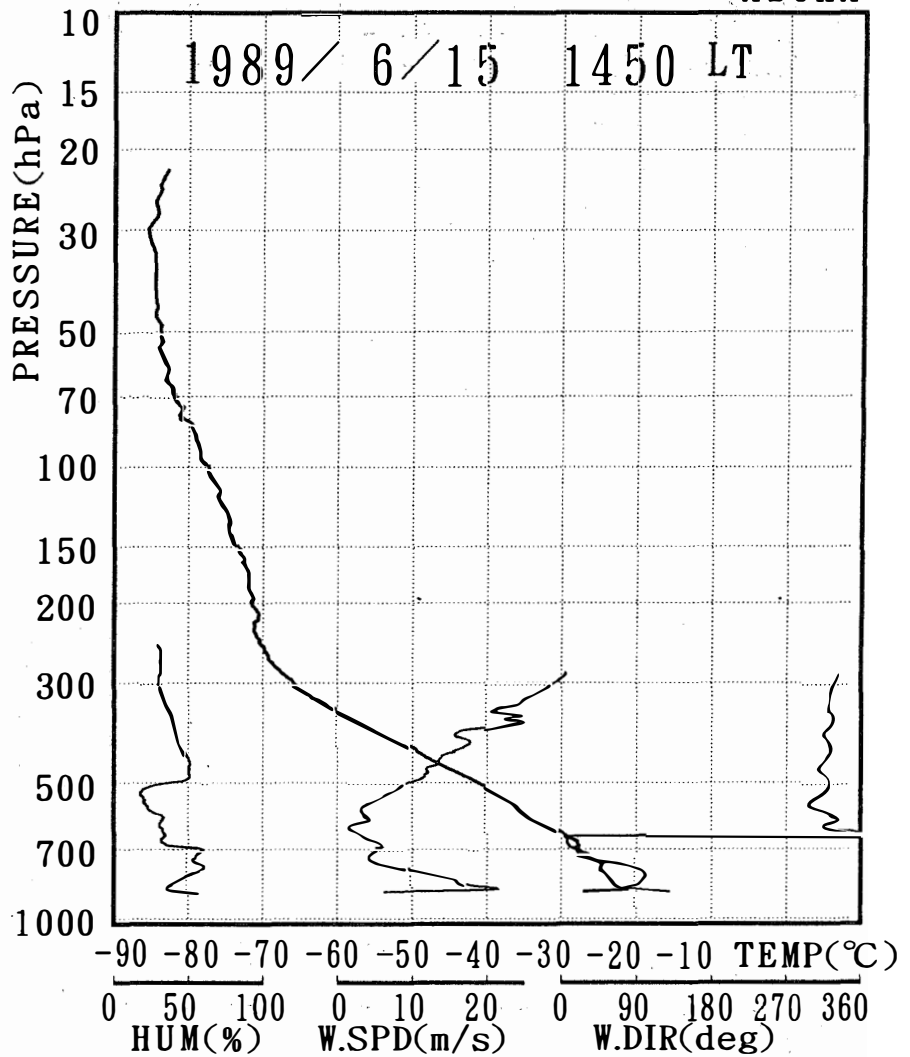


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 June 15 14h50m 5 10/32 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-166					866.6	-27.1	58	866.6	130	6.2
850	1073	-21.4	38	81	21.3	858.4	-21.2	44	862.7	113	16.9
700	2488	-27.8	60	17	5.3	849.9	-21.4	38	854.1	91	21.6
500	4847	-41.1	35	323	9.2	765.6	-24.6	61	849.9	81	21.3
400	6327	-51.9	44	323	17.5	760.4	-24.6	62	840.6	74	18.4
300	8128	-65.8	32	328	28.8	743.3	-24.2	56	824.0	95	16.4
250	9222	-69.8	33	///	///	704.8	-27.5	59	765.6	97	8.8
200	10544	-71.5	///	///	///	697.4	-27.9	59	748.6	81	6.1
150	12239	-73.2	///	///	///	682.9	-27.8	35	743.3	70	5.4
100	14590	-77.3	///	///	///	672.2	-27.9	32	716.7	23	4.5
70	16612	-81.7	///	///	///	522.5	-38.7	18	643.9	356	3.3
50	18486	-83.7	///	///	///	519.9	-38.9	19	623.6	318	1.8
30	21307	-85.5	///	///	///	491.9	-41.9	48	620.9	317	1.8
20	23556					335.8	-61.0	37	599.9	336	4.4
						301.0	-65.7	32	573.4	321	3.5
						T 244.4	-70.5	31	553.3	298	4.2
						100.1	-77.3		512.2	324	8.2
						63.4	-83.0		458.5	310	12.4
						30.0	-85.5		424.7	326	15.3
						22.1	-82.8		388.0	316	15.6
									382.0	317	16.2
									362.2	329	25.1
									360.3	330	24.9
									341.5	322	20.7
									283.6	334	30.5
									282.1	///	///
									194.4	260	10.6

ASUKA

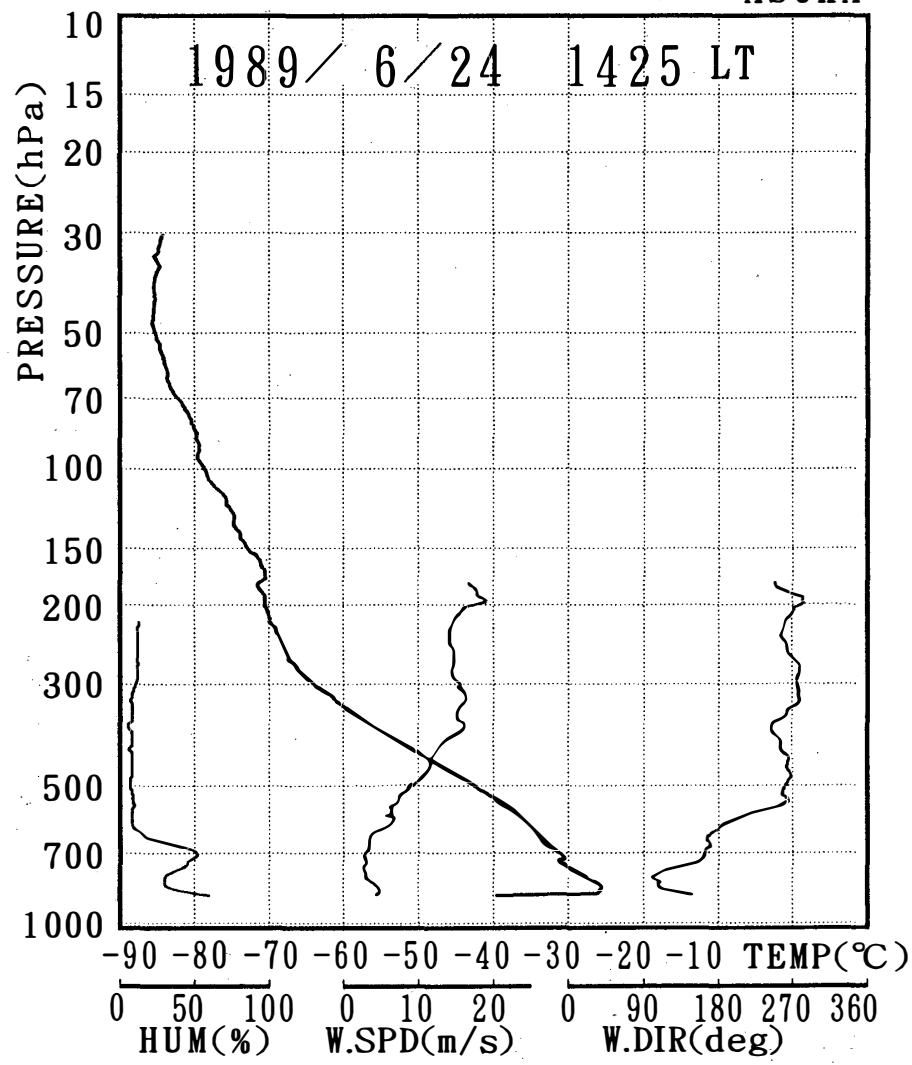


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 June 24 14h25m 1 00901 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-156					: 865.5	-39.6	60	: 865.5	150	4.4
: 850	1060	-25.9	45	123	4.9	: 858.0	-26.2	52	: 837.5	111	4.8
: 700	2450	-31.3	51	163	2.9	: 830.6	-25.5	33	: 790.1	101	3.0
: 500	4782	-42.4	7	261	9.2	: 734.6	-31.1	45	: 734.6	157	3.1
: 400	6257	-52.4	8	257	13.2	: 709.9	-30.8	51	: 607.2	187	6.4
: 300	8065	-63.8	10	277	15.6	: 703.6	-31.1	52	: 541.9	265	7.4
: 250	9169	-67.8	12	263	14.8	: 647.0	-33.8	18	: 432.6	265	11.8
: 200	10501	-70.6		278	16.7	: 561.1	-37.5	8	: 376.1	244	16.0
: 150	12203	-72.9	///	///	///	: 369.8	-56.2	6	: 372.9	245	16.1
: 100	14548	-78.6	///	///	///	: 302.6	-63.6	10	: 328.4	278	16.1
: 70	16564	-82.0	///	///	///	: 264.2	-67.4	12	: 272.9	279	14.8
: 50	18430	-85.2	///	///	///	: T 217.2	-70.0	13	: 234.2	256	14.3
: 30	21242					: 166.8	-70.7		: 192.7	284	18.6
						: 100.7	-78.5		: 178.1	250	16.8
						: T 94.8	-79.6				
						: 47.7	-85.6				
						: 30.3	-84.2				

ASUKA

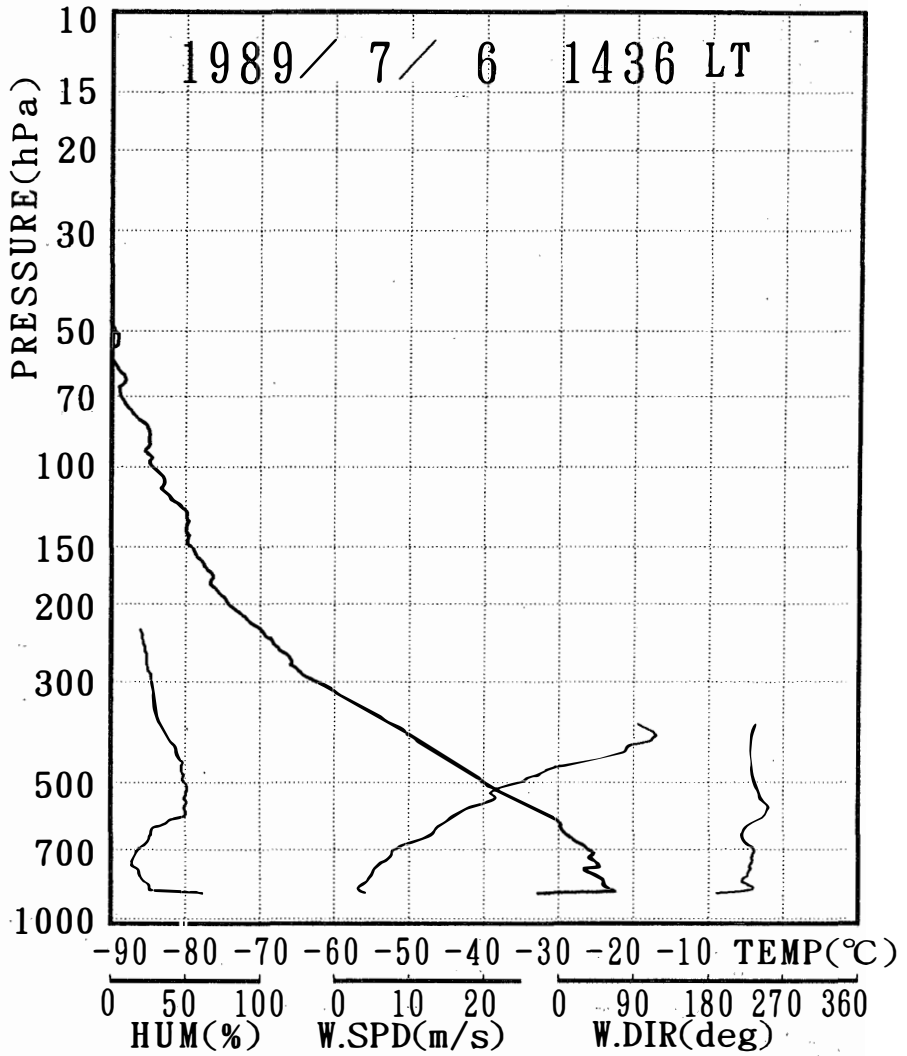


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 July 6 14h36m 3 00901 02

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-89					874.4	-32.9	62	874.4	190	4.2
850	1135	-23.4	26	234	3.1	868.1	-22.5	44	868.1	217	3.5
700	2546	-26.0	18	235	7.8	862.2	-22.7	27	856.6	232	3.1
500	4920	-39.9	49	234	25.1	775.4	-26.6	19	825.6	220	4.3
400	6413	-49.2	38	230	42.4	763.0	-24.6	16	701.8	235	7.8
300	8246	-62.1	27	///	///	740.0	-25.2	14	638.4	220	13.4
250	9355	-67.6	23	///	///	707.3	-25.6	17	566.0	252	18.0
200	10678	-74.3	///	///	///	600.3	-30.4	40	524.0	241	21.0
150	12332	-79.2	///	///	///	585.8	-31.7	50	477.2	230	27.5
100	14610	-84.4	///	///	///	511.1	-39.0	51	M 392.5	229	43.0
70	16566	-88.6	///	///	///	290.2	-63.9	27	370.9	236	40.5
50	18379	-89.6	///	///	///	226.5	-70.0	20			
						180.5	-76.8				
						100.3	-84.3				
						T 69.5	-88.7				
						47.2	-90.2				

ASUKA

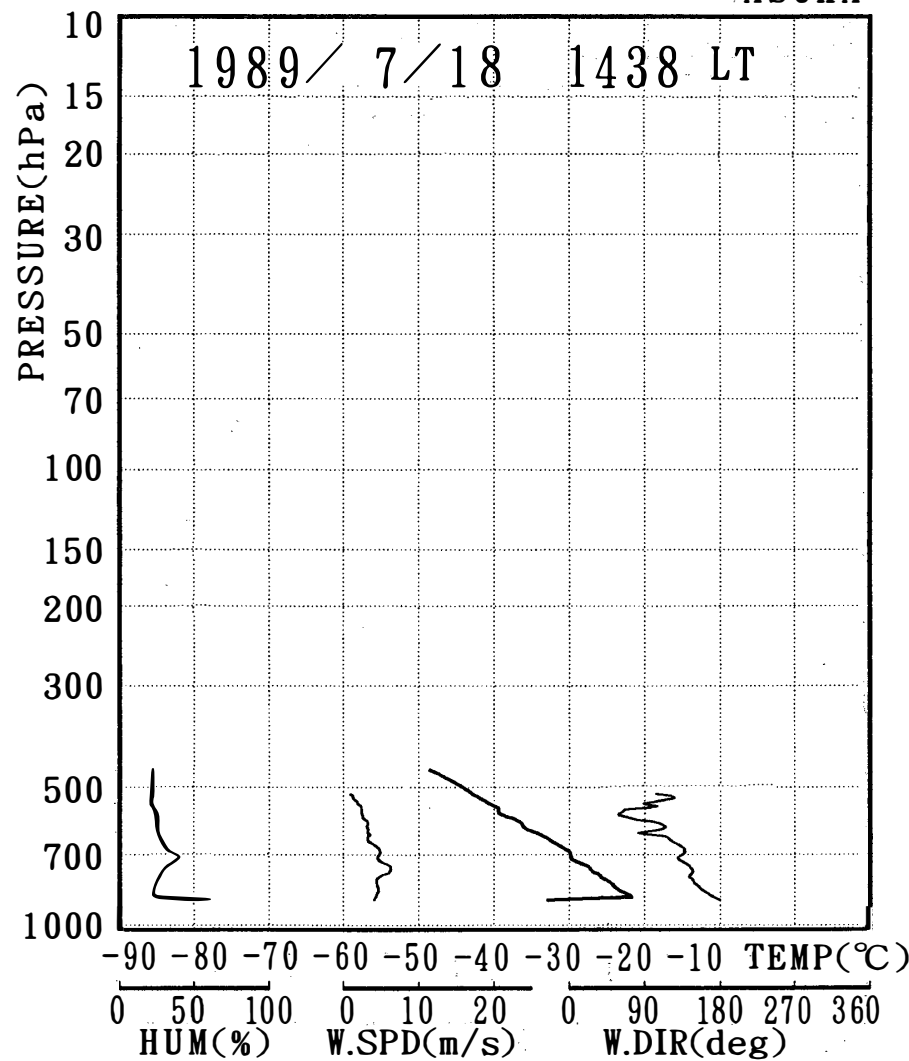


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 July 18 14h38m 2 00901 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-40					879.9	-33.0	61	879.9	180	4.0
850	1181	-22.5	23	166	4.4	866.0	-21.7	23	782.8	143	4.6
700	2585	-29.9	38	134	4.6	712.7	-29.8	40	712.7	129	4.5
500	4913	-44.0	31	///	///	683.2	-30.3	32	677.3	138	4.7
						568.0	-39.3	27	638.9	113	3.2
						552.9	-39.4	23	628.2	82	3.1
						525.3	-41.9	22	607.8	115	3.0
						515.6	-42.8	23	596.7	108	3.2
						511.4	-43.1	23	573.0	58	2.5
						494.0	-44.5	22	557.9	66	2.4
						455.5	-48.7	23	548.2	105	2.3
									540.8	88	1.8
									525.3	126	1.2
									515.6	103	0.8

ASUKA

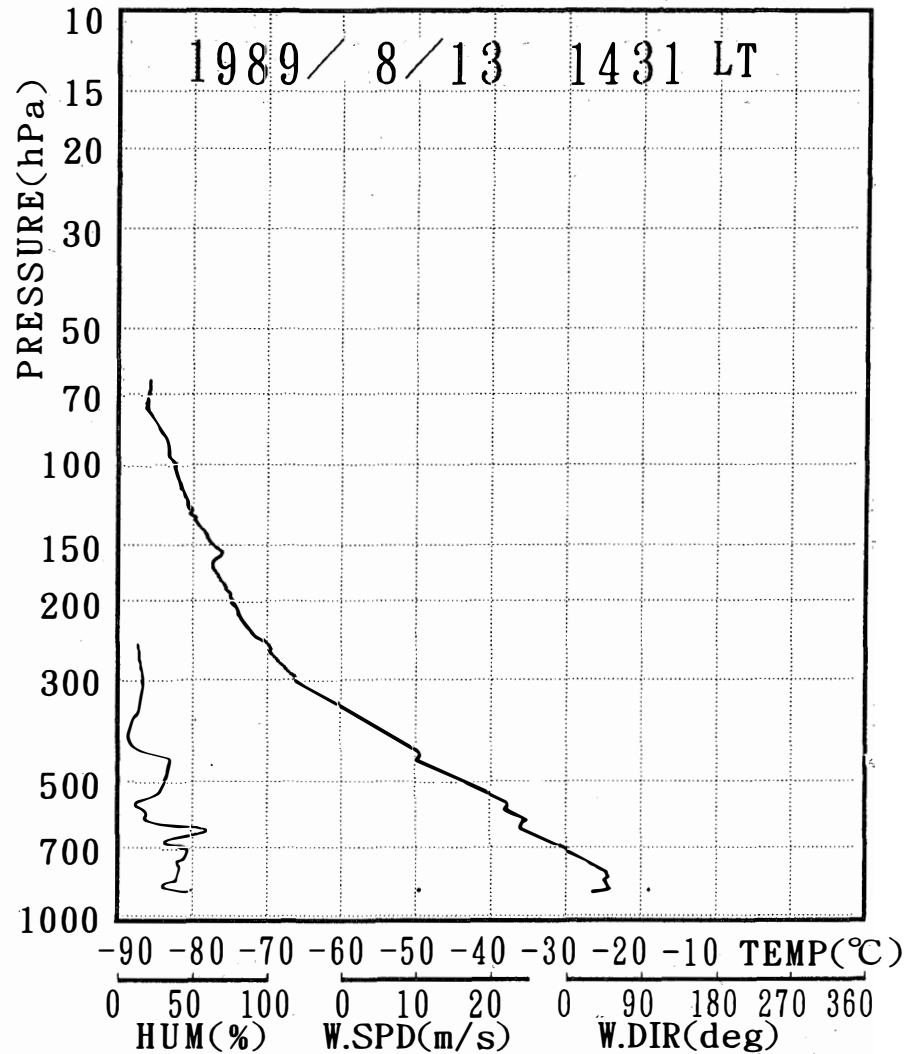


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Aug. 13 14h31m 1 00902 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-117					871.4	-26.3	49	871.4	100	10.4
850	1110	-24.2	31	///	///	856.8	-24.0	34			
700	2515	-30.3	47	///	///	850.1	-24.2	31			
500	4847	-43.1	32	///	///	788.5	-24.4	41			
400	6316	-52.3	8	///	///	705.5	-29.8	47			
300	8120	-65.8	18	///	///	672.8	-32.0	32			
250	9214	-69.9	14	///	///	637.8	-34.9	60			
200	10525	-74.6		///	///	620.4	-35.9	43			
150	12183	-77.3		///	///	608.0	-35.6	23			
100	14473	-82.4		///	///	603.7	-35.1	20			
70	16446	-85.9		///	///	571.7	-38.0	18			
						552.6	-37.6	13			
						443.9	-49.9	36			
						431.1	-49.4	22			
						411.6	-51.1	10			
						305.3	-65.1	18			
						261.9	-69.5	15			
						246.6	-70.2	14			
						T 168.3	-77.4				
						155.9	-76.1				
						T 128.1	-80.5				
						100.4	-82.4				
						64.6	-85.8				

ASUKA

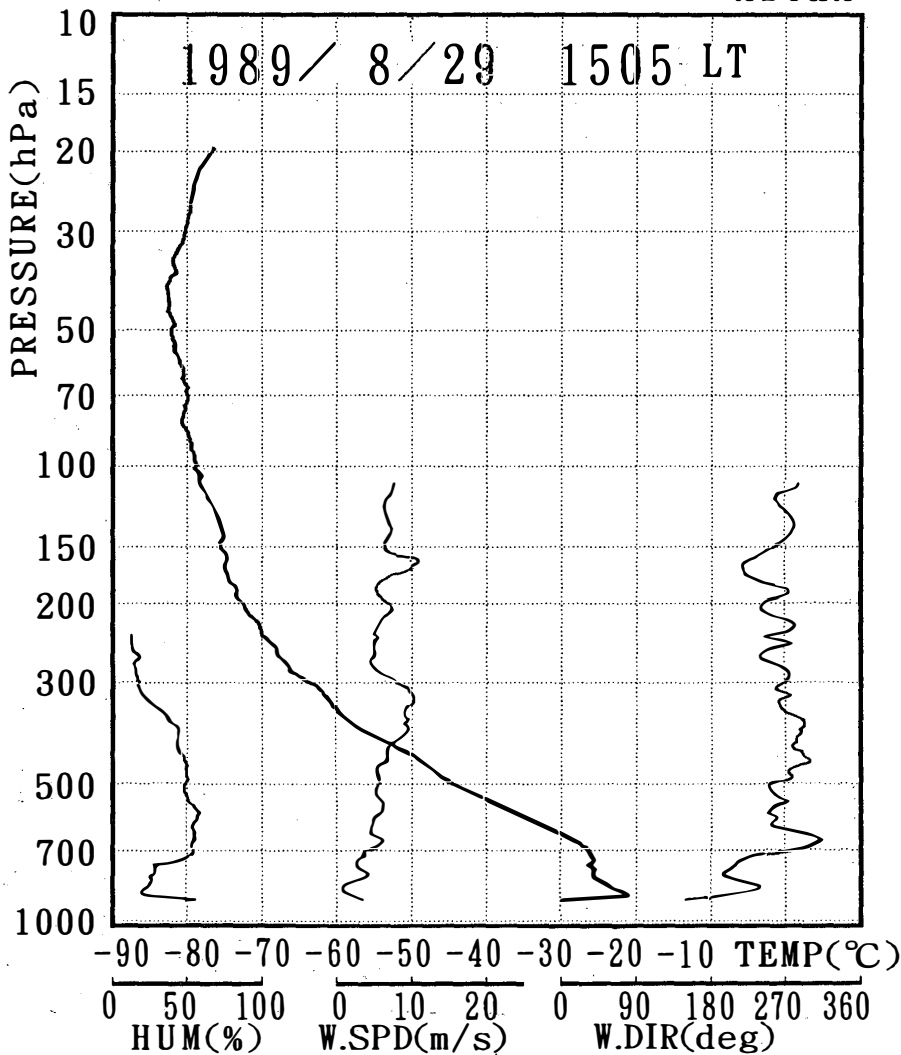


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Aug. 29 15h 5m 1 10/31 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	118					898.2	-29.8	56	898.2	150	3.6
850	1334	-22.8	22	238	0.8	879.9	-20.9	25	868.1	217	1.3
700	2742	-26.2	54	274	3.8	801.3	-25.6	26	849.9	238	0.8
500	5088	-44.4	48	253	5.7	778.2	-25.6	29	832.0	236	1.3
400	6553	-53.8	45	283	8.1	755.0	-26.3	28	795.5	196	4.3
300	8354	-63.4	18	263	8.4	725.5	-25.8	51	742.7	213	2.8
250	9458	-68.2	14	262	5.1	702.5	-26.1	54	720.1	233	3.8
200	10781	-72.5		245	6.9	496.6	-44.8	49	691.3	297	5.2
150	12457	-75.6		257	6.3	423.2	-50.8	45	669.2	315	6.3
100	14788	-79.0	///	///	///	374.5	-57.4	45	642.3	296	4.6
70	16807	-80.0	///	///	///	311.4	-62.0	19	622.3	256	4.8
50	18700	-82.1	///	///	///	304.7	-62.6	18	579.2	250	6.1
30	21561	-80.3	///	///	///	282.7	-66.2	16	546.6	275	6.1
20	23867	-76.6	///	///	///	234.6	-70.0	13	505.1	251	5.6
						T 179.5	-74.3		483.8	278	5.7
						100.4	-79.1		462.9	275	5.4
						45.3	-82.6		446.6	300	6.9
						19.6	-76.5		411.4	277	7.3
									363.8	293	9.6
									340.2	265	9.3
									327.7	261	10.2
									318.0	277	10.1
									308.0	257	9.5
									282.7	275	5.5
									268.5	248	4.6
									260.5	240	5.3
									244.5	279	5.3
									237.0	245	5.6
									230.3	276	5.3
									223.7	283	5.8
									203.5	240	7.3
									186.3	273	5.1
									174.3	226	6.8
									164.5	219	10.5
									161.5	225	11.1
									139.4	279	7.4
									118.2	258	6.7
									108.9	287	7.7

ASUKA

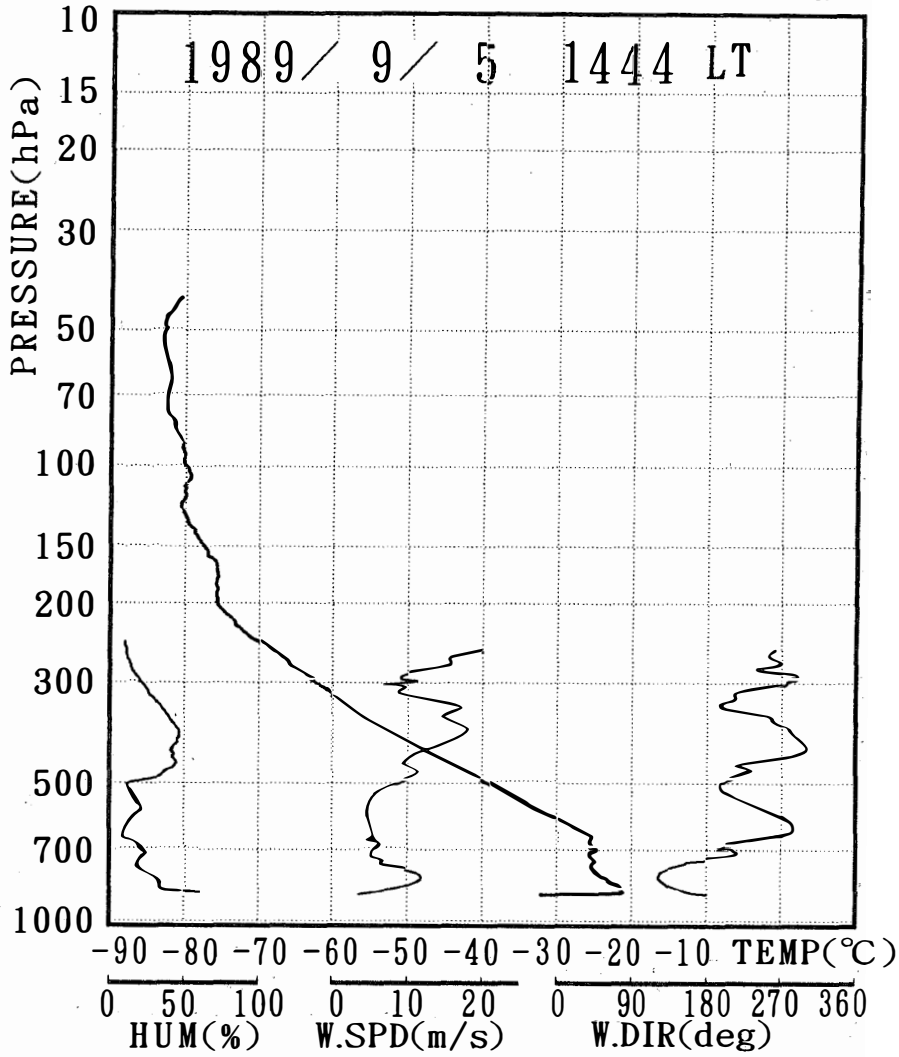


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Sep. 5 14h44m 2 00902 02

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-109					: 872.7	-32.3	59	: 872.7	180	3.4
: 850	1122	-21.7	33	147	7.5	: 867.3	-21.8	46	: 867.3	163	4.5
: 700	2535	-25.2	19	192	5.6	: 861.8	-21.2	33	: 833.1	134	10.0
: 500	4917	-39.2	12	197	8.7	: 789.3	-25.1	24	: 808.4	124	11.8
: 400	6405	-51.0	45	286	16.9	: 704.8	-24.9	20	: 783.3	124	11.1
: 300	8225	-62.3	22	277	9.2	: 666.9	-25.6	8	: 743.3	156	6.8
: 250	9332	-68.9	11	///	///	: 657.4	-25.8	8	: 726.6	214	4.9
: 200	10642	-75.7	///	///	///	: 505.0	-38.7	11	: 699.1	192	5.6
: 150	12303	-77.5	///	///	///	: 461.5	-43.7	42	: 687.4	200	6.2
: 100	14602	-79.8	///	///	///	: 390.9	-52.3	46	: 652.1	278	5.2
: 70	16604	-82.5	///	///	///	: 275.5	-66.0	14	: 631.6	284	4.9
: 50	18482	-82.7	///	///	///	: 257.8	-67.8	11	: 531.6	202	5.3
						: 241.3	-70.2	10	: 521.3	196	6.1
						: T 202.9	-75.5		: 500.5	197	8.7
						: T 124.4	-80.6		: 474.0	233	11.3
						: 116.0	-80.0		: 461.5	213	9.7
						: 115.0	-80.0		: 441.1	281	10.0
						: 113.8	-80.1		: 425.9	300	12.2
						: 100.3	-79.7		: 390.9	281	17.6
						: 74.6	-82.7		: 380.2	278	17.9
						: 42.5	-80.6		: 359.3	258	14.6
									: 345.7	202	17.0
									: 342.4	196	17.2
									: 335.8	194	16.0
									: 329.8	215	14.0
									: 315.0	218	8.7
									: 302.5	274	6.7
									: 290.9	288	9.0
									: 282.7	240	11.0
									: 272.6	269	15.7
									: 263.6	254	15.9
									: 255.0	262	20.1

ASUKA



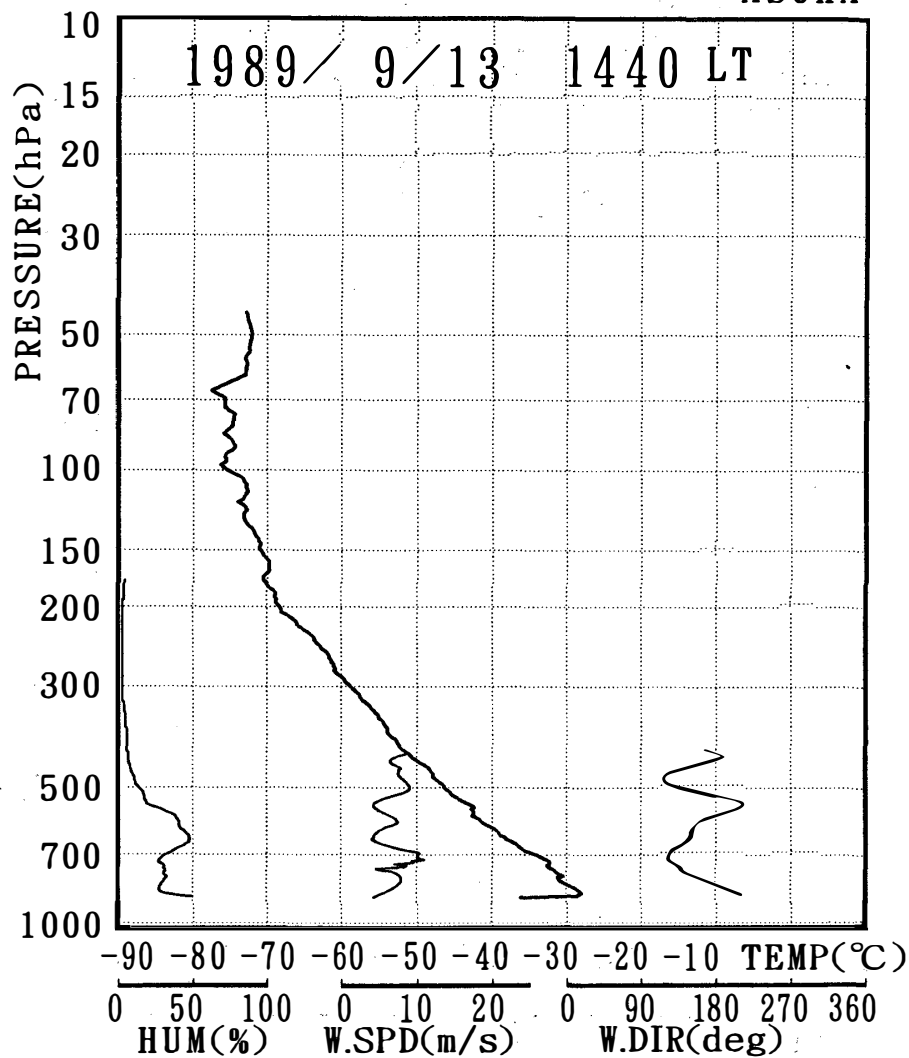


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Sep. 13 14h40m 1 15/40 02

:	STANDARD LEVELS						TEMP & HUM SIG.L :			WIND SIG.L		
	P	H	T	U	D	V	P	T	U	P	D	V
:	1000	-131					867.3	-36.3	50	867.3	210	4.3
:	850	1073	-28.1	31	197	5.6	860.1	-28.6	40	766.3	139	7.3
:	700	2450	-34.1	32	125	10.0	847.2	-28.0	30	721.5	122	9.2
:	500	4738	-46.4	14	127	9.0	841.4	-28.2	28	716.2	123	11.0
:	400	6200	-52.5	6	///	///	795.1	-30.9	31	647.4	153	4.0
:	300	8034	-58.8	3	///	///	778.0	-30.4	32	598.9	159	7.3
:	250	9168	-62.1	3	///	///	721.5	-32.4	27	552.0	212	4.5
:	200	10527	-68.2	3	///	///	647.4	-38.2	48	538.6	206	4.4
:	150	12241	-71.0	///	///	///	574.6	-42.7	38	508.0	139	8.7
:	100	14620	-75.3	///	///	///	552.0	-42.4	26	490.9	119	8.8
:	70	16687	-75.8	///	///	///	538.6	-43.5	19	465.6	126	7.5
:	50	18651	-72.1	///	///	///	503.8	-46.2	15	435.1	187	6.5
:							377.1	-54.0	6	418.6	167	9.1
:							250.9	-62.0	3			
:							T 173.6	-70.6	4			
:							100.7	-74.9				
:							74.8	-74.4				
:							66.4	-77.6				
:							61.3	-73.0				
:							44.4	-72.9				

ASUKA

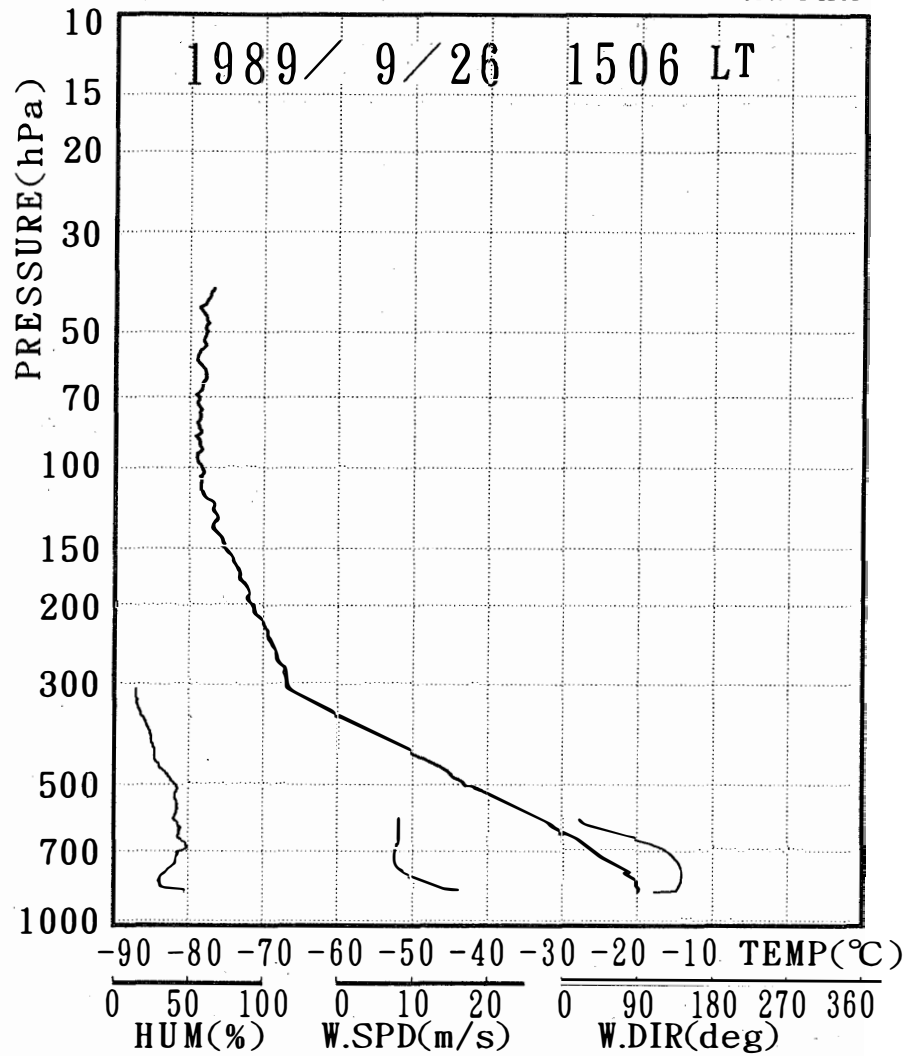


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Sep. 26 15h 6m 1 10/32 02

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-231					860.5	-20.0	47	860.5	110	15.9
850	1021	-19.8	32	137	13.7	841.6	-19.9	30	855.7	137	14.2
700	2446	-26.3	44	126	7.5	818.1	-20.1	29	827.8	141	11.6
500	4802	-43.1	42	///	///	687.8	-27.0	49	760.5	142	7.6
400	6275	-53.5	25	///	///	662.5	-28.1	45	711.5	130	7.4
300	8065	-67.0		///	///	500.9	-43.1	42	679.3	111	7.8
250	9161	-68.6		///	///	464.5	-45.4	33	617.1	29	7.9
200	10488	-71.8		///	///	328.1	-63.7	15	597.8	19	7.9
150	12171	-75.3		///	///	T 304.1	-67.0	15			
100	14497	-78.4		///	///	100.4	-78.3				
70	16527	-78.8		///	///	39.8	-76.8				
50	18446	-77.8		///	///						

ASUKA

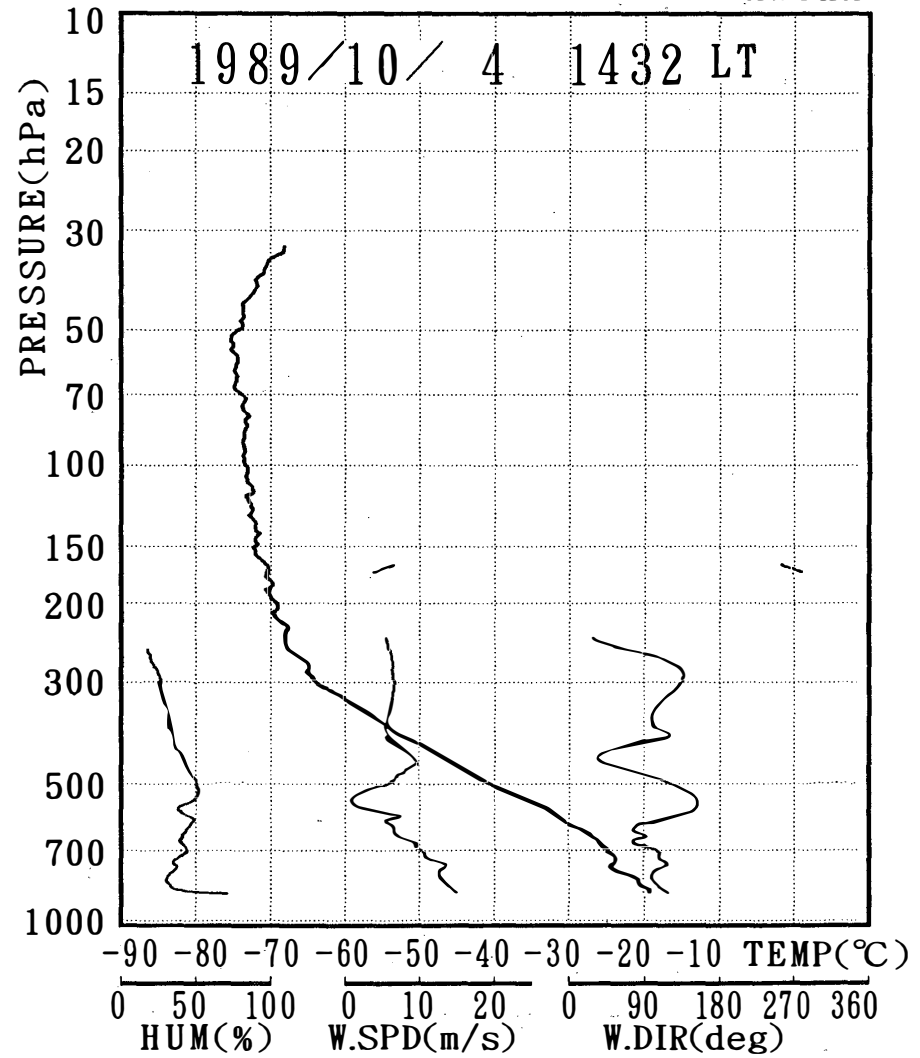


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Oct. 4 14h32m 7 10/32 39

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-160					868.2	-19.3	71	868.2	120	15.1
850	1087	-19.5	37	112	14.4	855.1	-19.2	42	809.0	100	13.1
700	2511	-25.0	44	103	10.2	814.4	-20.6	30	750.2	119	13.5
500	4889	-40.5	50	120	5.8	762.6	-24.5	37	697.6	103	10.2
400	6374	-51.2	36	100	5.9	738.2	-23.7	35	671.8	76	9.1
300	8191	-63.8	27	134	6.6	657.7	-26.6	40	653.4	93	7.3
250	9300	-67.8		53	5.8	569.5	-32.7	38	635.0	76	6.6
200	10636	-69.2	///	///		515.9	-38.7	52	616.4	82	6.2
150	12342	-72.3	///	///		489.4	-41.7	50	611.9	101	5.7
100	14723	-73.4	///	///		383.9	-53.4	34	579.9	147	4.7
70	16808	-73.6	///	///		302.2	-63.6	26	546.5	154	0.8
50	18762	-74.6	///	///		252.7	-67.7	18	537.5	152	1.1
30	21783					214.0	-69.5		489.4	111	6.7
						100.2	-73.3		452.1	42	9.6
						55.2	-75.4		440.4	34	9.3
						32.5	-68.1		420.1	51	7.7
									394.8	119	5.6
									376.7	100	5.6
									350.4	100	5.9
									282.9	137	6.4
									263.2	106	6.2
									250.1	53	5.8
									238.9	29	5.6
									237.2	///	///
									171.2	280	3.7
									164.5	256	6.6

ASUKA

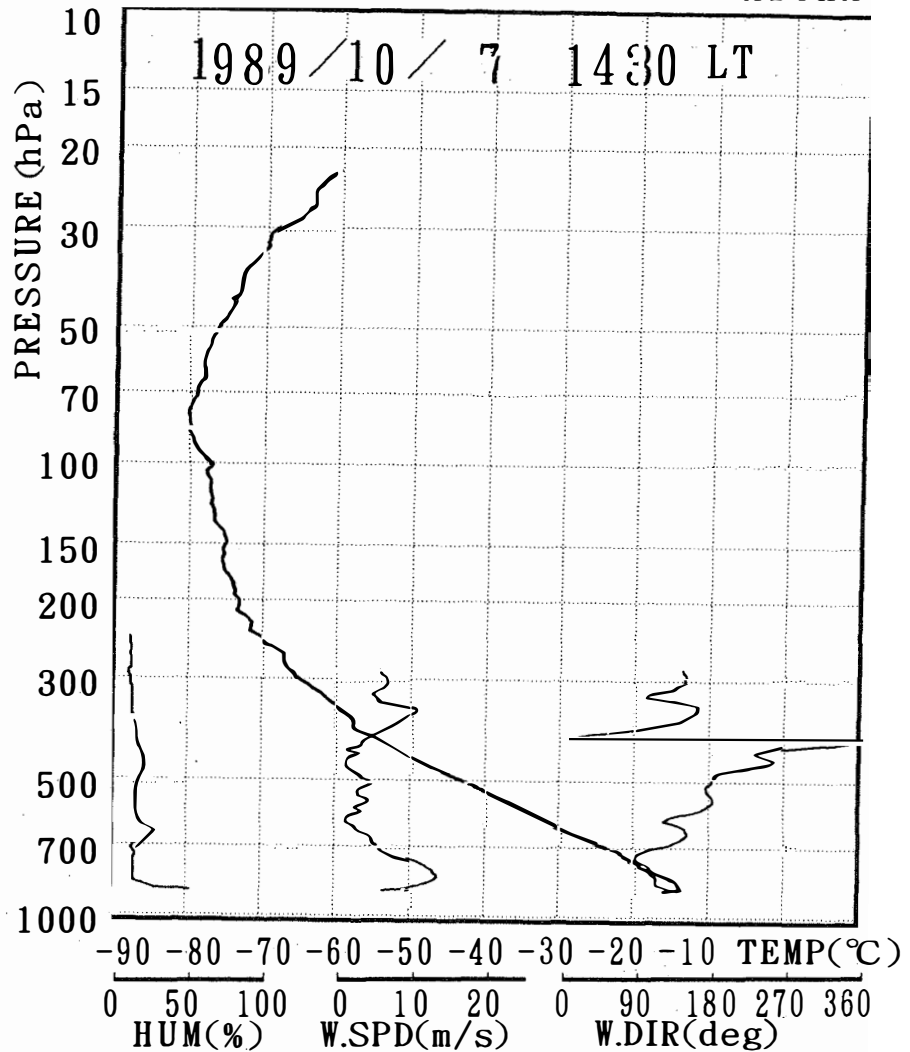


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Oct. 7 14h30m 0 00900 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-82					878.8	-16.4	53	878.8	140	6.4
850	1182	-14.5	20	114	11.6	872.8	-14.1	29	848.7	114	11.6
700	2627	-23.7	14	114	5.5	832.2	-14.9	15	815.3	113	13.7
500	4988	-43.1	15	183	4.7	706.0	-23.1	14	728.2	90	7.2
400	6452	-54.5	15	8	3.8	647.0	-29.1	23	652.4	154	4.2
300	8250	-64.8	12	151	6.8	571.0	-34.9	14	627.3	149	2.4
250	9351	-68.7	11	///	///	462.8	-47.6	20	608.1	126	1.1
200	10667	-73.2	///	///	///	380.2	-57.6	16	557.6	182	3.2
150	12338	-75.3	///	///	///	362.7	-57.7	14	481.3	185	3.3
100	14670	-77.1	///	///	///	294.2	-65.5	11	459.4	251	1.3
70	16694	-79.2	///	///	///	241.9	-70.2	11	451.3	255	1.2
50	18617	-76.4	///	///	///	T 211.1	-73.5		436.0	231	1.7
30	21616	-68.4	///	///	///	100.8	-77.1		425.1	251	1.5
20	24118					81.4	-80.2		421.1	264	1.3
						55.4	-77.8		410.0	336	3.3
						36.4	-72.6		396.6	20	4.3
						22.4	-60.3		373.1	130	7.6
									356.3	159	9.1
									347.8	164	10.4
									339.0	162	9.1
									324.2	102	5.3
									312.6	137	5.4
									301.9	150	6.7
									284.3	146	5.8

ASUKA

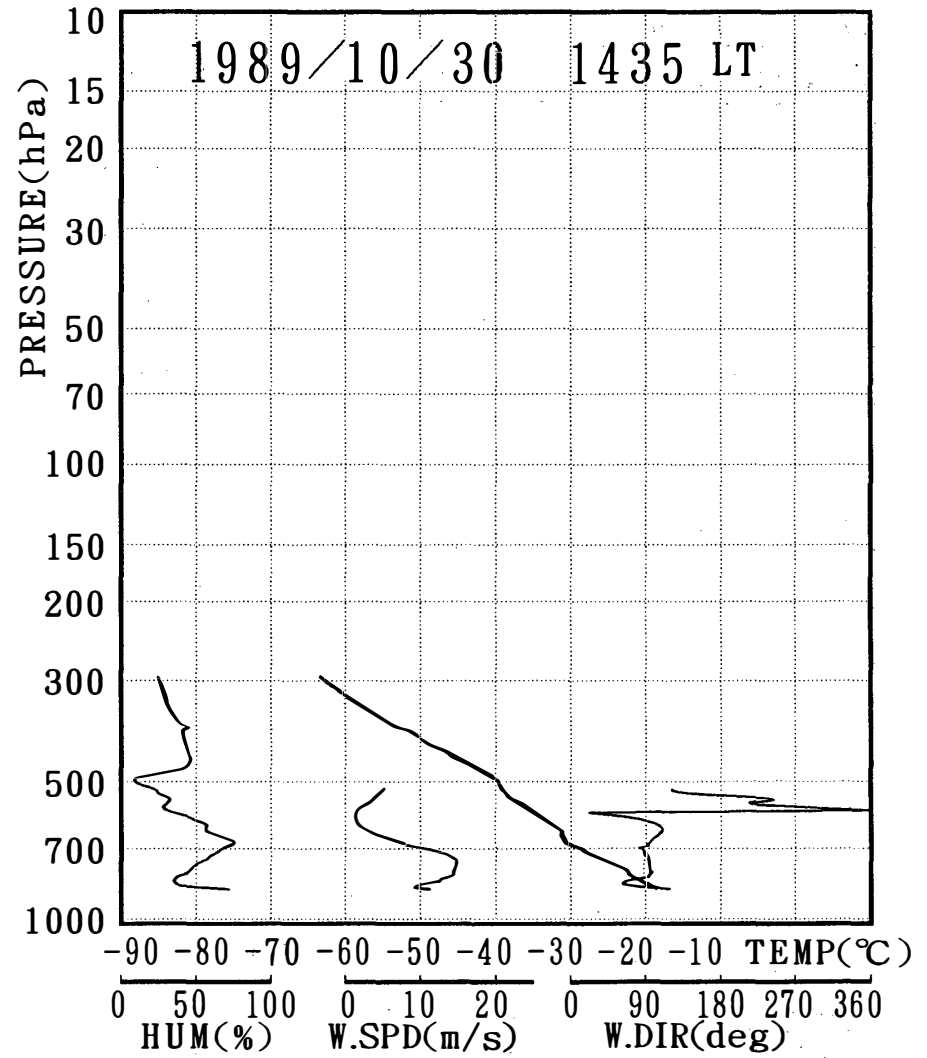


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Oct. 30 14h35m 6 60/50 03

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-288					854.1	-18.4	72	854.1	120	11.3
850	966	-18.7	63	90	9.3	840.0	-19.3	40	847.0	90	9.3
700	2385	-28.6	67	87	11.0	776.1	-22.5	46	833.5	64	10.2
500	4737	-39.6	10	///	///	678.3	-30.8	75	807.8	94	13.5
400	6229	-50.0	42	///	///	639.3	-31.2	57	788.9	99	14.5
300	8052	-62.5	26	///	///	574.8	-35.2	30	735.7	94	14.5
						542.6	-38.2	32	695.2	84	9.9
						496.7	-39.7	9	643.6	108	3.2
						465.5	-42.8	44	624.8	107	1.9
						374.5	-53.7	41	619.4	104	1.7
						372.1	-53.8	39	597.2	71	1.3
						358.4	-55.4	37	582.1	21	1.4
						344.1	-57.4	32	559.1	217	3.0
						292.4	-63.5	25	554.9	214	3.4
									546.6	244	3.7
									542.6	236	3.9
									529.3	140	4.5
									517.3	121	5.2

ASUKA

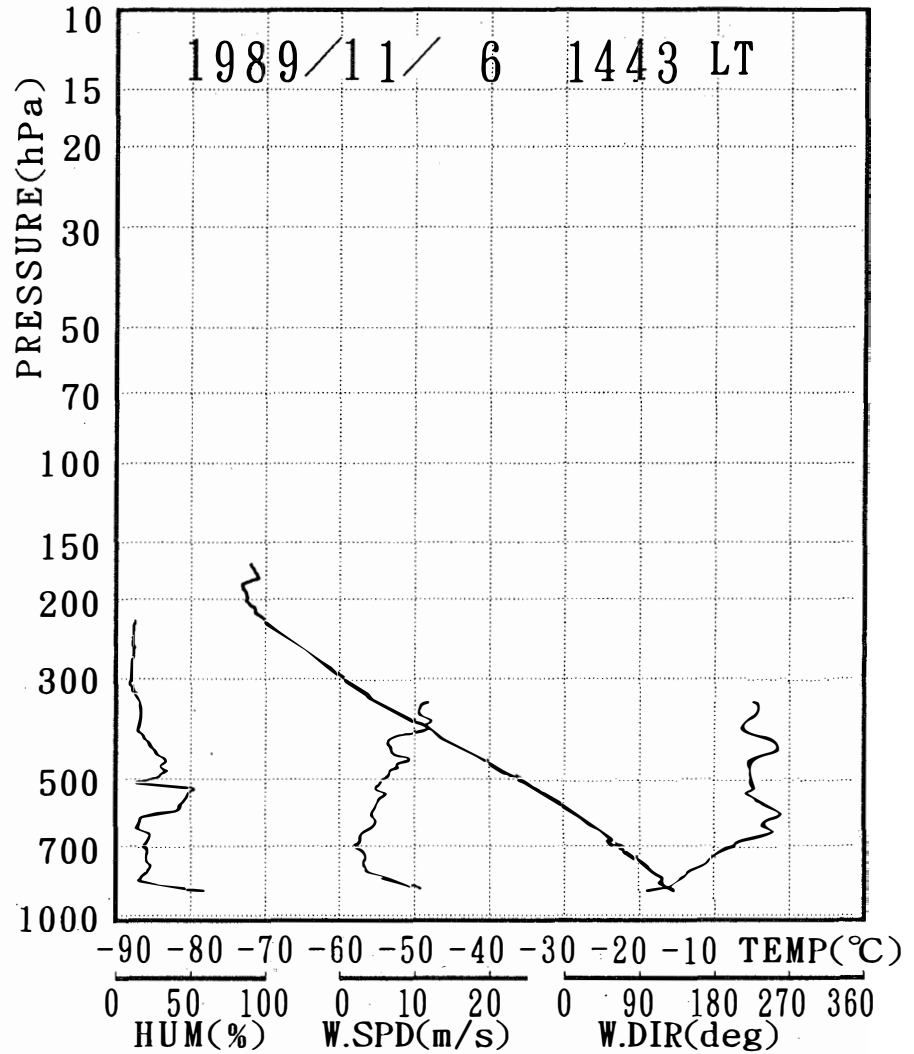


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Nov. 6 14h43m 1 10/30 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-171					868.8	-15.2	59	868.8	100	10.8
850	1094	-16.4	31	129	9.1	848.2	-16.5	29	854.7	126	9.9
700	2539	-22.5	20	197	2.4	835.3	-17.2	22	783.9	152	3.6
500	4949	-35.4	22	225	5.6	810.0	-16.9	18	679.9	205	2.9
400	6466	-46.5	19	238	7.4	685.1	-23.7	20	647.4	250	3.2
300	8321	-59.1	10	///	///	647.4	-24.6	21	612.8	239	5.0
250	9446	-65.4	12	///	///	633.4	-25.4	14	589.7	261	4.4
200	10777	-72.7	///	///	///	574.9	-29.3	43	534.8	218	6.3
150	12471					522.6	-33.4	52	452.0	220	9.1
						508.4	-34.6	18	429.6	258	6.9
						505.8	-34.9	14	414.5	258	6.5
						475.4	-38.4	35	382.7	213	12.0
						387.2	-47.4	15	349.3	234	10.5
						336.4	-54.9	17	334.2	226	11.9
						228.7	-69.3	12			
						222.0	-70.1	13			
						200.6	-72.7				
						166.1	-72.1				

ASUKA

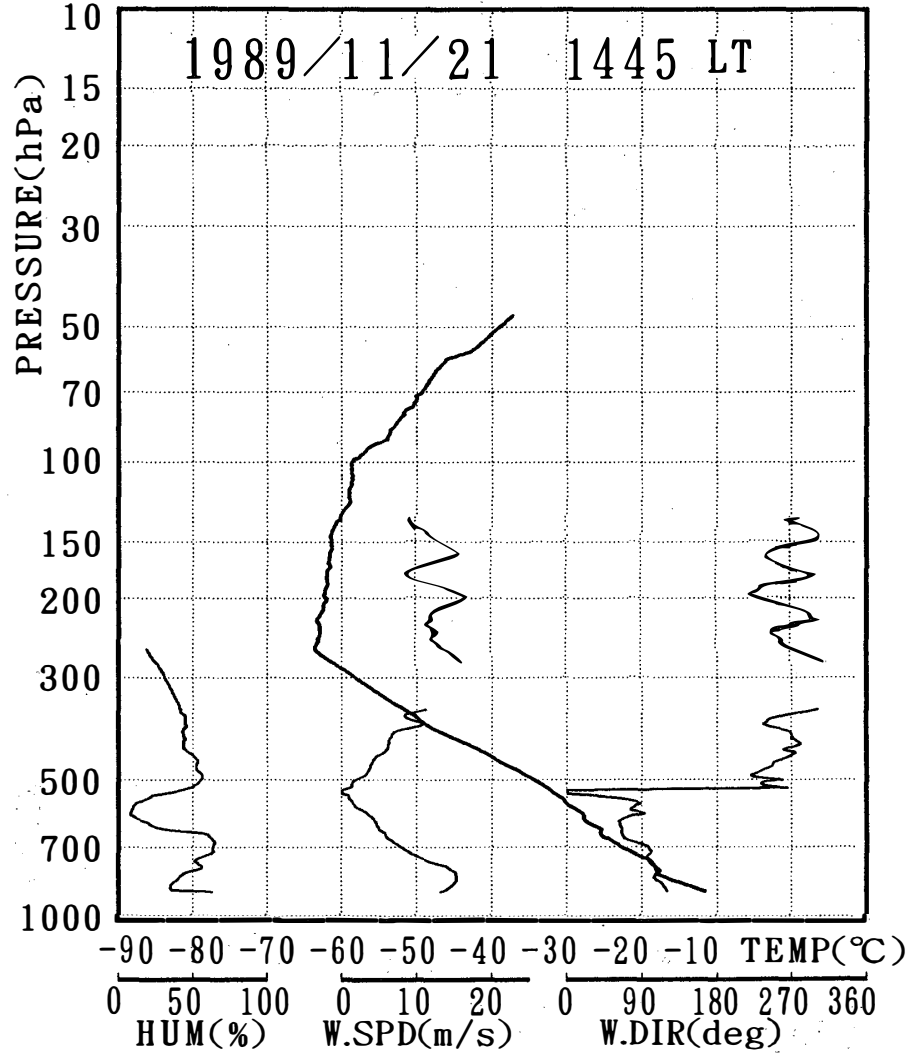


UPPER AIR OBSERVATIONS (ASUKA)

DATE 1989 Nov. 21 TIME 14h45m WEATHER 6 10/36 02

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-119					: 875.0	-11.5	63	: 875.0	120	13.2
: 850	1150	-13.8	35	115	14.8	: 867.9	-12.2	36	: 697.2	97	7.8
: 700	2600	-22.7	63	97	7.8	: 800.4	-18.1	43	: 671.3	70	6.3
: 500	5012	-34.4	55	259	1.7	: 750.6	-18.7	51	: 613.2	61	4.4
: 400	6536	-45.7	44	271	6.6	: 715.5	-21.5	64	: 590.3	94	3.4
: 300	8397	-58.0	32	///	///	: 655.5	-25.5	60	: 580.4	76	2.7
: 250	9527	-63.3		257	12.7	: 650.2	-25.6	55	: 561.9	89	1.5
: 200	10900	-62.1		229	16.4	: 639.2	-25.4	33	: 552.6	76	1.2
: 150	12680	-61.4		288	13.5	: 633.6	-25.9	26	: 538.8	30	0.9
: 100	15214	-58.7		///	///	: 594.9	-27.8	8	: 534.3	-	0.0
: 70	17507	-49.5		///	///	: 516.7	-32.9	50	: 516.7	247	1.4
: 50	19755	-39.1		///	///	: 508.4	-33.5	53	: 504.0	235	1.4
						: 380.8	-48.4	46	: 499.8	259	1.7
						: 258.3	-63.6	19	: 495.6	236	2.2
						: 191.5	-62.3		: 487.0	220	3.1
						: 100.1	-58.7		: 436.2	275	5.5
						: 58.9	-46.1		: 429.9	259	5.9
						: 47.0	-37.2		: 417.5	281	6.2
									: 390.3	265	7.4
									: 377.6	235	10.9
									: 369.2	241	9.3
									: 350.2	302	11.2
									: 347.7	///	///
									: 275.5	311	16.1
									: 253.1	258	13.2
									: 246.2	262	12.0
									: 241.0	246	12.6
									: 236.1	260	12.0
									: 232.9	248	12.8
									: 231.2	276	11.9
									: 229.5	281	11.3
									: 227.9	268	11.4
									: 223.0	305	12.4
									: 213.4	289	12.2
									: 197.2	220	16.7
									: 188.7	231	13.9
									: 181.8	288	9.4
									: 176.5	301	8.6
									: 172.7	272	9.7
									: 161.9	240	15.0
									: 159.5	241	15.6
									: 154.8	253	14.5
									: 146.7	306	12.1
									: 141.3	302	11.1
									: 134.3	263	9.2
									: 133.3	281	9.2

ASUKA

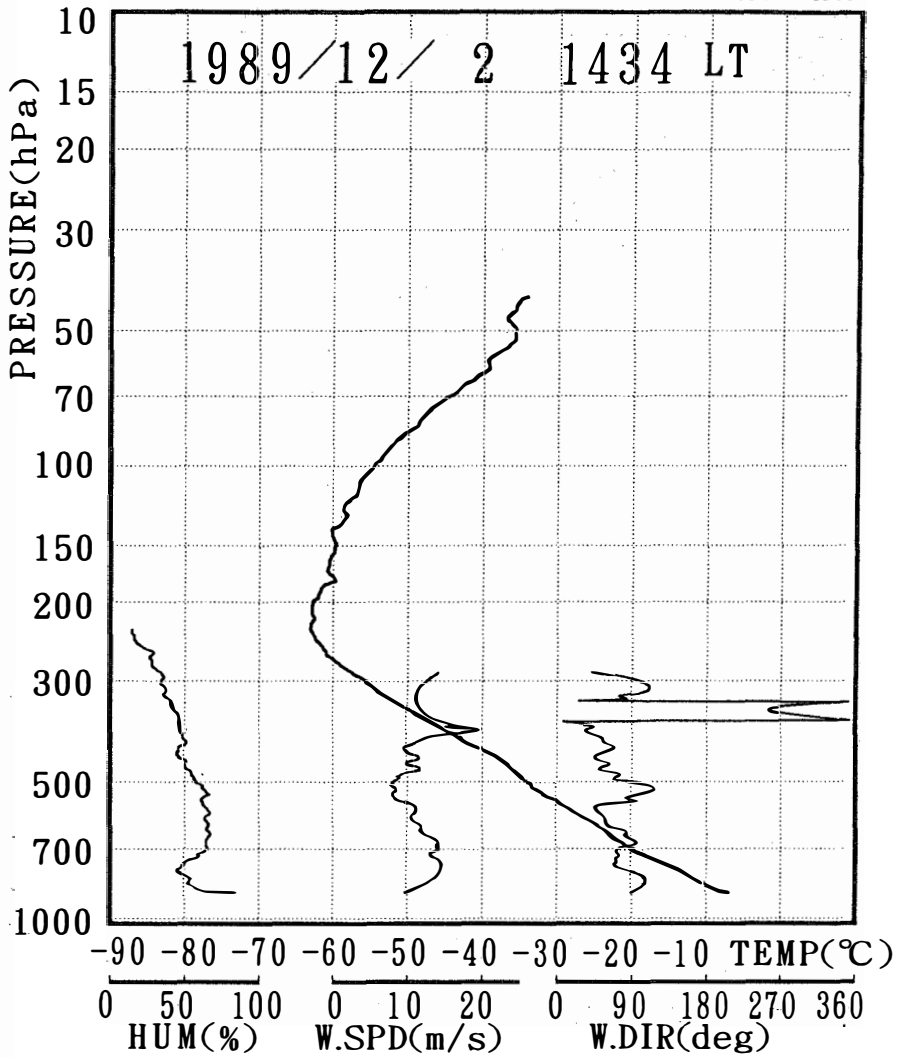


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Dec 2 14h34m 6 16/32 36

: P	STANDARD LEVELS					TEMP & HUM SIG. L			WIND SIG. L		
	H	T	U	D	V	P	T	U	P	D	V
: 1000	-158					: 872.8	-6.8	85	: 872.8	90	9.6
: 850	1136	-9.2	58	100	11.3	: 866.7	-8.0	63	: 808.8	108	13.6
: 700	2608	-19.8	65	73	14.3	: 777.6	-13.2	45	: 754.1	69	14.8
: 500	5038	-33.7	57	99	7.9	: 698.3	-19.9	65	: 698.3	73	14.3
: 400	6576	-42.8	48	56	12.5	: 513.7	-33.0	61	: 675.1	97	14.2
: 300	8460	-55.4	34	104	12.4	: 436.0	-38.2	45	: 633.3	84	11.7
: 250	9603	-61.5	21	///	///	: 360.2	-48.0	46	: 617.9	60	12.0
: 200	10978	-62.8	///	///	///	: 278.7	-58.6	29	: 561.5	46	11.2
: 150	12766	-59.8	///	///	///	: T 229.2	-63.1	15	: 554.4	56	10.6
: 100	15322	-54.6	///	///	///	: 194.1	-62.1		: 544.9	98	9.1
: 70	17650	-45.1	///	///	///	: 179.1	-59.7		: 535.6	84	8.4
: 50	19952	-35.7	///	///	///	: 138.1	-60.3		: 521.6	114	8.5
:						: 100.2	-54.6		: 511.1	117	8.4
:						: 60.2	-39.1		: 503.2	106	7.9
:						: 51.9	-35.6		: 493.3	71	8.6
:						: 41.9	-34.0		: 478.7	77	9.3
:									: 466.8	51	11.8
:									: 454.9	64	10.0
:									: 438.5	46	11.6
:									: 419.6	70	9.5
:									: 417.0	69	9.7
:									: 385.2	35	19.6
:									: 383.0	35	20.0
:									: 374.6	39	17.2
:									: 354.5	278	12.7
:									: 348.5	258	12.1
:									: 346.7	256	12.0
:									: 341.3	271	11.7
:									: 335.7	324	11.4
:									: 330.2	65	11.1
:									: 328.2	84	11.5
:									: 323.0	74	11.3
:									: 312.8	109	11.5
:									: 300.6	104	12.4
:									: 283.8	42	14.2

ASUKA



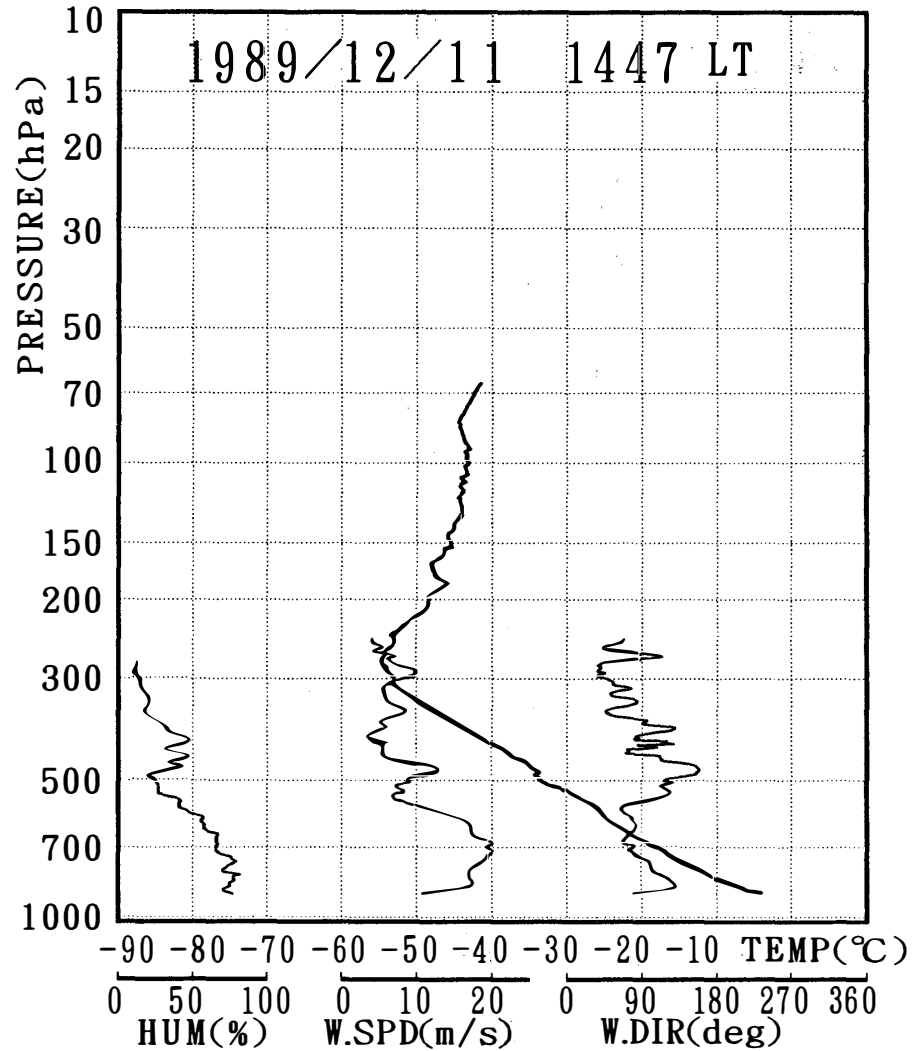


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Dec 11 14h47m 6 16/30 36

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-67					883.1	-3.8	77	883.1	80	10.8
850	1229	-7.7	74	130	17.4	875.0	-5.8	72	875.0	113	14.3
700	2707	-18.3	65	80	19.4	760.5	-14.5	76	854.7	131	17.1
500	5146	-33.4	25	117	8.7	750.6	-15.1	79	848.2	130	17.4
400	6689	-42.1	41	81	3.5	616.7	-24.4	56	711.2	74	20.1
300	8582	-53.1	15	51	7.3	575.1	-25.8	42	697.7	82	19.2
250	9753	-52.9		66	4.1	532.6	-29.6	27	684.6	66	20.1
200	11205	-48.5		///	///	500.6	-33.4	25	649.4	81	17.2
150	13109	-45.5		///	///	488.1	-34.2	20	571.9	66	10.3
100	15826	-43.1		///	///	483.3	-33.5	25	551.2	109	7.1
70	18223	-42.4		///	///	467.8	-34.9	43	538.6	121	6.9
						409.7	-41.2	48	517.5	112	7.3
						360.5	-46.4	19	505.8	127	9.1
						343.3	-49.2	20	495.4	118	8.7
						309.8	-53.1	15	483.3	155	12.6
						T 275.3	-54.7	13	475.6	157	12.9
						184.7	-45.8		472.9	158	12.8
						168.1	-48.1		459.7	148	9.3
						154.1	-45.3		449.4	111	6.2
						100.4	-43.2		439.1	111	5.2
						80.4	-44.5		434.3	69	5.5
						66.0	-41.5		426.8	71	5.8
									421.8	108	5.5
									416.7	84	4.7
									414.4	128	6.1
									412.1	114	4.0
									409.7	120	5.1
									407.2	82	4.1
									400.0	81	3.5
									383.4	129	6.0
									374.2	90	5.2
									367.3	96	6.0
									360.5	57	7.7
									351.8	46	8.7
									334.6	84	6.0
									322.0	51	6.0
									313.7	77	5.4
									295.5	36	9.8
									291.7	47	9.7
									288.0	38	10.1
									281.0	37	7.6
									275.3	48	6.7
									267.7	115	7.3
									257.3	44	5.2
									245.7	69	4.1

ASUKA

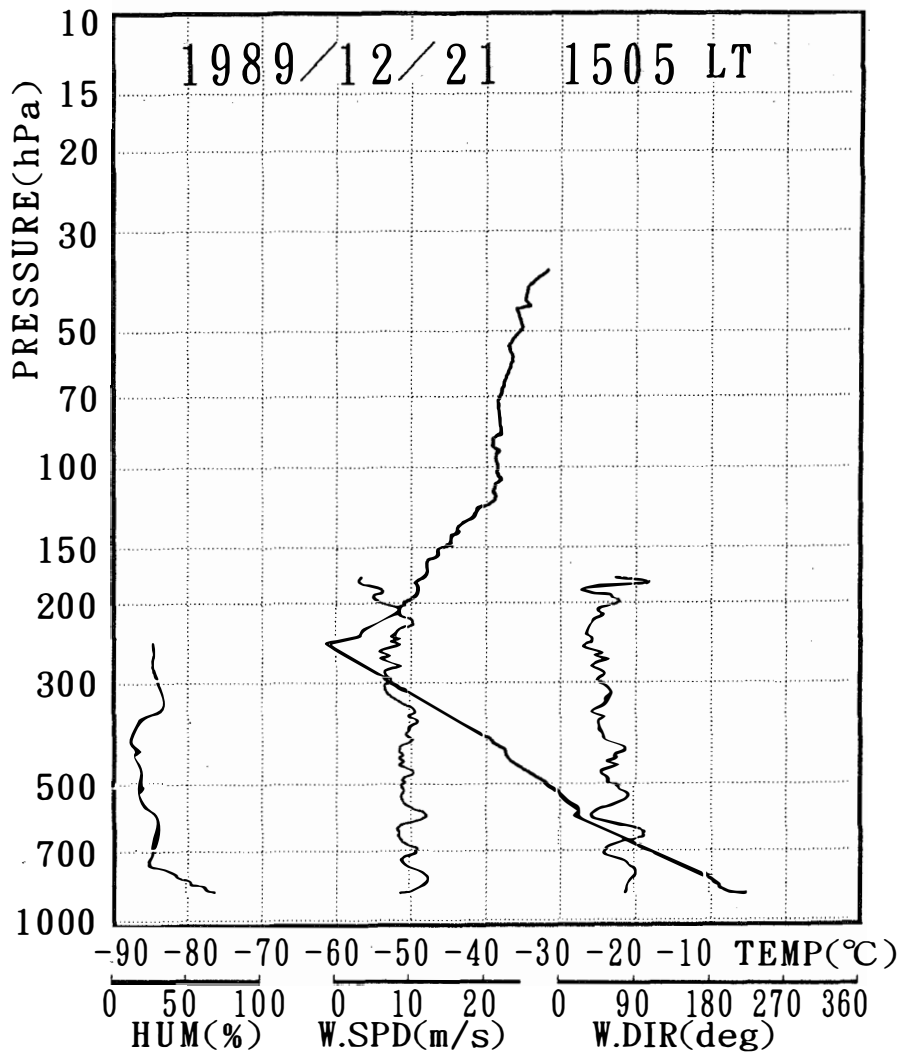


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1989 Dec 21 15h 5m 2 11/32 02

: P	STANDARD LEVELS					: TEMP & HUM SIG.L	: WIND SIG.L			
	H	T	U	D	V			P	T	U
: 1000	-187					: 870.4 -5.0 70	: 870.4 80 8.8			
: 850	1116	-8.2	63	81	11.2	: 865.2 -7.0 66	: 770.8 92 10.8			
: 700	2599	-17.8	27	56	10.9	: 788.3 -10.7 42	: 703.4 53 11.0			
: 500	5035	-31.7	18	65	8.6	: 757.4 -12.9 26	: 672.7 71 9.2			
: 400	6585	-39.3	12	55	10.0	: 607.2 -26.4 31	: 652.6 100 8.4			
: 300	8501	-52.4	31	50	6.9	: 587.3 -27.9 32	: 636.4 103 8.3			
: 250	9657	-60.7	27	27	8.2	: 564.2 -27.4 22	: 623.8 94 8.1			
: 200	11082	-50.9		69	6.0	: 443.0 -36.8 16	: 607.2 57 9.4			
: 150	12975	-46.1	///	///	///	: 419.1 -37.5 16	: 587.3 39 12.0			
: 100	15730	-38.5	///	///	///	: 397.3 -39.5 12	: 530.2 84 8.7			
: 70	18181	-38.4	///	///	///	: 340.2 -46.4 35	: 474.9 51 10.2			
: 50	20507	-35.6	///	///	///	: T 245.6 -61.3 27	: 464.1 50 10.2			
: 30	24104					: 242.1 -59.4	: 453.4 71 8.4			
						: 236.9 -56.7	: 443.0 57 9.1			
						: 214.8 -53.1	: 416.5 80 8.4			
						: 210.5 -51.6	: 400.2 55 10.0			
						: 159.7 -47.7	: 353.9 55 9.8			
						: 118.3 -39.0	: 345.0 40 10.7			
						: 100.2 -38.5	: 314.3 63 6.8			
						: 44.6 -36.0	: 295.4 45 7.3			
						: 36.5 -31.7	: 283.0 54 6.5			
							: 275.0 38 8.8			
							: 265.5 59 5.9			
							: 261.9 42 7.3			
							: 256.3 51 5.8			
							: 249.2 27 8.2			
							: 243.9 39 7.3			
							: 230.4 33 8.2			
							: 222.4 40 10.3			
							: 211.9 53 8.4			
							: 206.4 45 8.5			
							: 196.8 69 5.5			
							: 174.3 67 3.4			

ASUKA

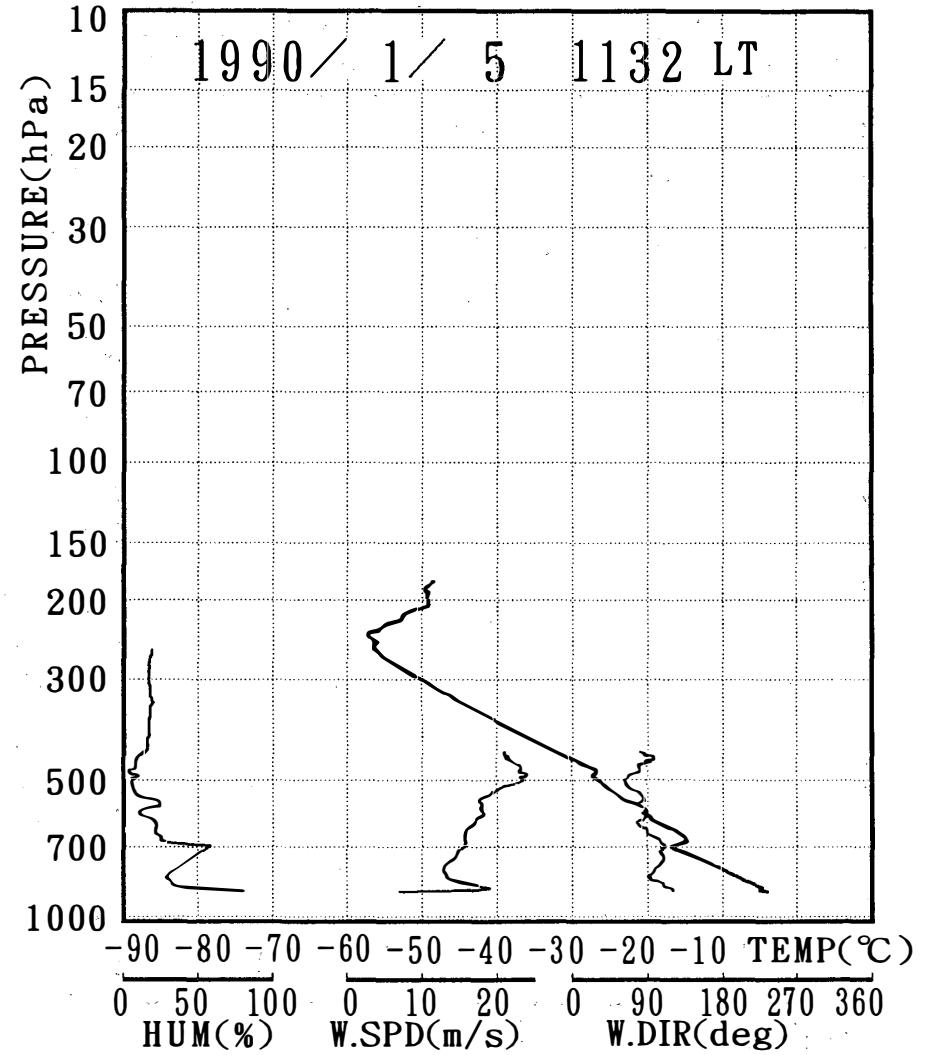


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1990 Jan. 5 11h32m 7 15/7/ 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-151					: 875.0	-4.0	81	: 875.0	120	6.9
: 850	1157	-5.3	34	109	17.7	: 869.0	-5.0	49	: 863.1	117	19.0
: 700	2648	-16.8	56	110	15.6	: 820.7	-7.5	29	: 813.6	90	13.3
: 500	5140	-26.5	6	63	23.3	: 698.3	-16.9	56	: 795.5	98	13.0
: 400	6726	-36.1	17	///	///	: 694.0	-16.4	58	: 748.4	110	14.3
: 300	8662	-49.7	17	///	///	: 680.3	-14.7	25	: 694.0	112	15.9
: 250	9833	-56.2		///	///	: 518.6	-25.5	7	: 620.7	77	17.2
: 200	11267	-49.2		///	///	: 482.1	-26.7	4	: 601.9	89	17.9
						: 474.8	-26.9	7	: 544.7	85	18.3
						: 337.6	-44.7	20	: 502.3	63	23.1
						: 335.8	-45.0	20	: 450.4	99	21.7
						: T 256.7	-56.5	19	: 432.7	80	21.1
						: 236.4	-57.1				
						: 204.9	-49.3				
						: 181.1	-48.4				

ASUKA

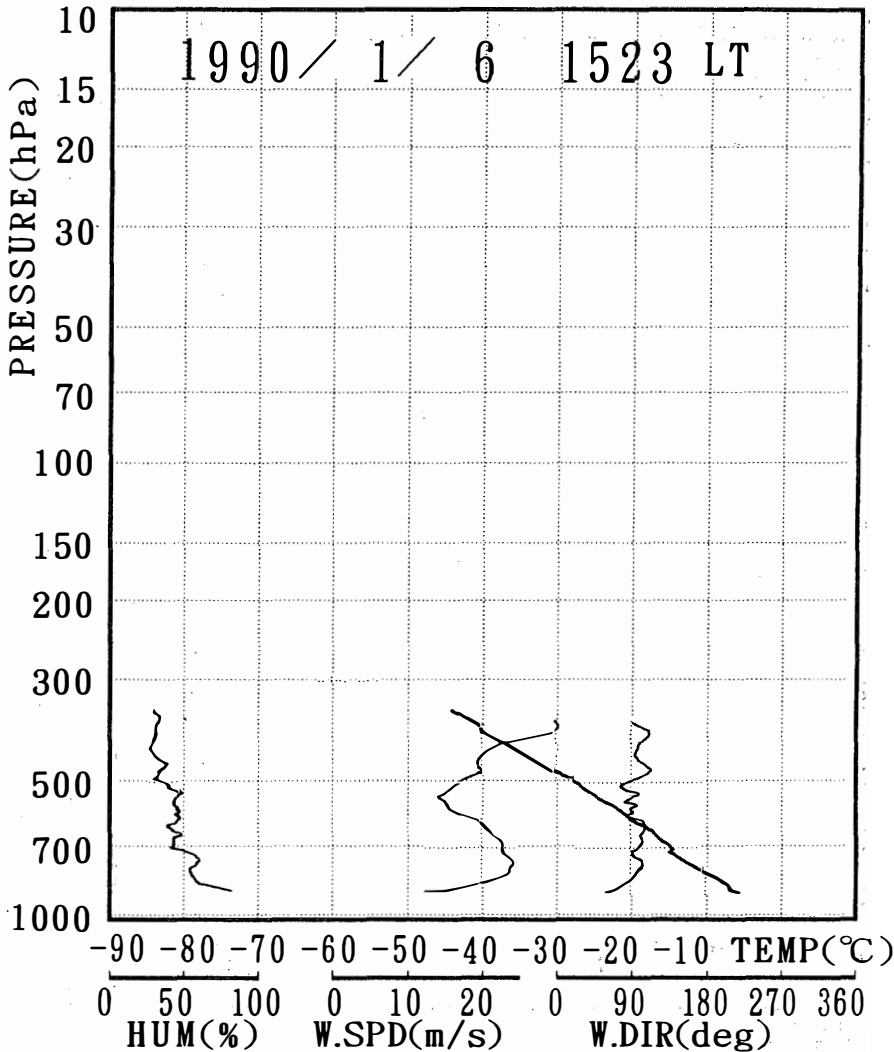


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
 1990 Jan. 6 15h23m 1 11/30 02

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-133					876.6	-5.4	82	876.6	60	12.3
850	1171	-6.8	64	76	18.0	845.6	-6.9	60	771.4	103	23.8
700	2662	-14.5	42	97	22.6	715.0	-14.8	49	759.1	104	24.3
500	5151	-27.1	38	84	17.0	684.4	-15.1	43	715.0	92	22.9
400	6721	-38.2	32	108	26.1	502.2	-26.9	40	626.2	109	20.4
						443.6	-33.6	33	593.9	86	17.8
						345.5	-44.1	31	561.2	98	15.4
									550.7	82	15.2
									536.3	92	14.2
									526.3	99	15.2
									509.2	77	16.1
									469.6	114	20.0
									434.5	94	20.0
									384.8	112	29.8
									368.1	91	29.5

ASUKA

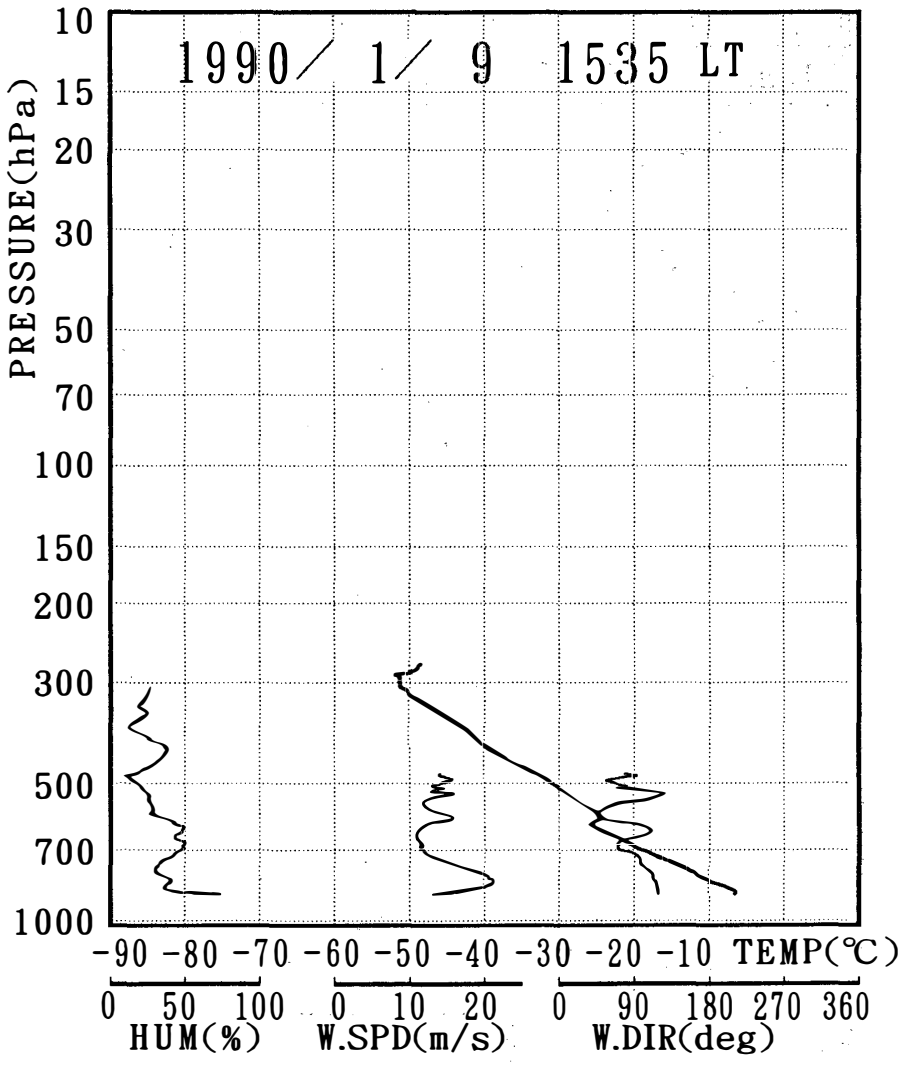


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1990 Jan. 9 15h35m 1 10/31 02

STANDARD LEVELS							TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V	
1000	-162					873.1	-6.7	74	873.1	120	13.1	
850	1139	-7.1	37	119	19.3	867.7	-6.5	50	811.4	114	21.2	
700	2618	-18.9	47	72	11.8	774.6	-12.6	30	730.0	97	13.6	
500	5060	-30.9	19	69	14.0	674.3	-20.9	50	690.3	70	11.4	
400	6608	-40.8	26	///	///	639.2	-24.1	47	682.7	70	11.8	
300	8521	-51.4	///	///	///	618.2	-25.8	48	635.9	111	11.2	
250	9718					597.0	-24.2	38	615.6	94	12.3	
						490.6	-31.6	15	604.1	58	15.1	
						479.3	-32.6	10	580.3	47	13.9	
						439.3	-37.2	35	557.1	64	11.8	
						422.2	-39.1	38	545.8	107	12.3	
						376.4	-42.3	13	529.5	127	16.0	
						305.4	-51.3	27	521.4	111	12.9	
						303.8	-51.3		513.6	70	14.7	
						287.1	-51.8		506.5	81	13.0	
						271.2	-48.5		490.6	55	15.9	
									481.9	92	14.1	
									476.5	79	14.3	

ASUKA

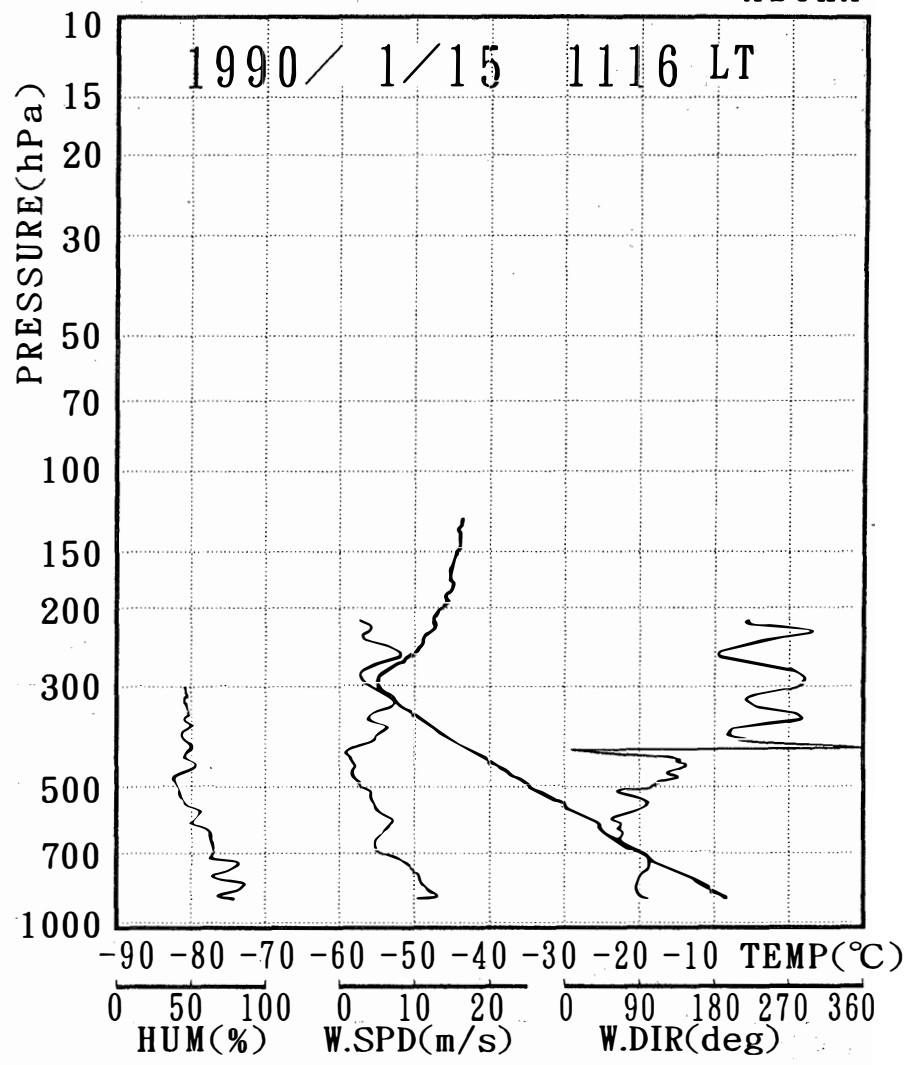


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1990 Jan. 15 11h16m 7 16/7/ 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-3					889.4	-8.3	79	889.4	100	10.3
850	1280	-10.4	79	86	11.9	822.1	-11.9	86	833.5	84	11.3
700	2747	-20.1	64	89	5.8	800.0	-12.9	68	725.5	102	8.0
500	5168	-34.9	40	104	2.8	794.5	-13.4	65	676.1	68	4.6
400	6694	-45.0	48	256	4.2	740.8	-17.9	82	591.4	57	7.0
300	8572	-54.9		277	4.3	735.5	-18.4	81	553.7	98	4.7
250	9747	-49.6		192	7.5	721.1	-18.8	62	516.5	62	4.2
200	11219	-46.4	///	///	///	639.3	-24.6	63	503.2	101	3.0
150	13137	-44.5	///	///	///	608.7	-25.3	51	480.1	137	1.9
						506.6	-34.6	42	468.8	122	1.6
						483.1	-36.2	37	453.4	146	1.9
						383.9	-46.6	43	431.9	126	1.5
						T 300.9	-54.9	45	421.1	50	0.6
						291.1	-54.8		418.5	34	0.9
						264.6	-51.4		407.7	345	2.2
						223.2	-47.4		405.1	320	2.9
						127.4	-43.8		396.8	228	4.5
									386.5	195	4.7
									371.0	211	6.3
									360.9	274	4.5
									356.2	286	3.7
									344.9	274	4.2
									334.0	228	6.6
									325.9	221	7.2
									323.6	217	7.2
									317.9	220	7.0
									304.6	271	4.9
									287.1	288	2.9
									272.6	253	3.8
									259.3	186	7.9
									252.2	186	8.0
									243.0	214	5.8
									228.9	298	3.5
									226.0	295	4.0
									220.3	227	4.1
									215.0	221	2.7

ASUKA

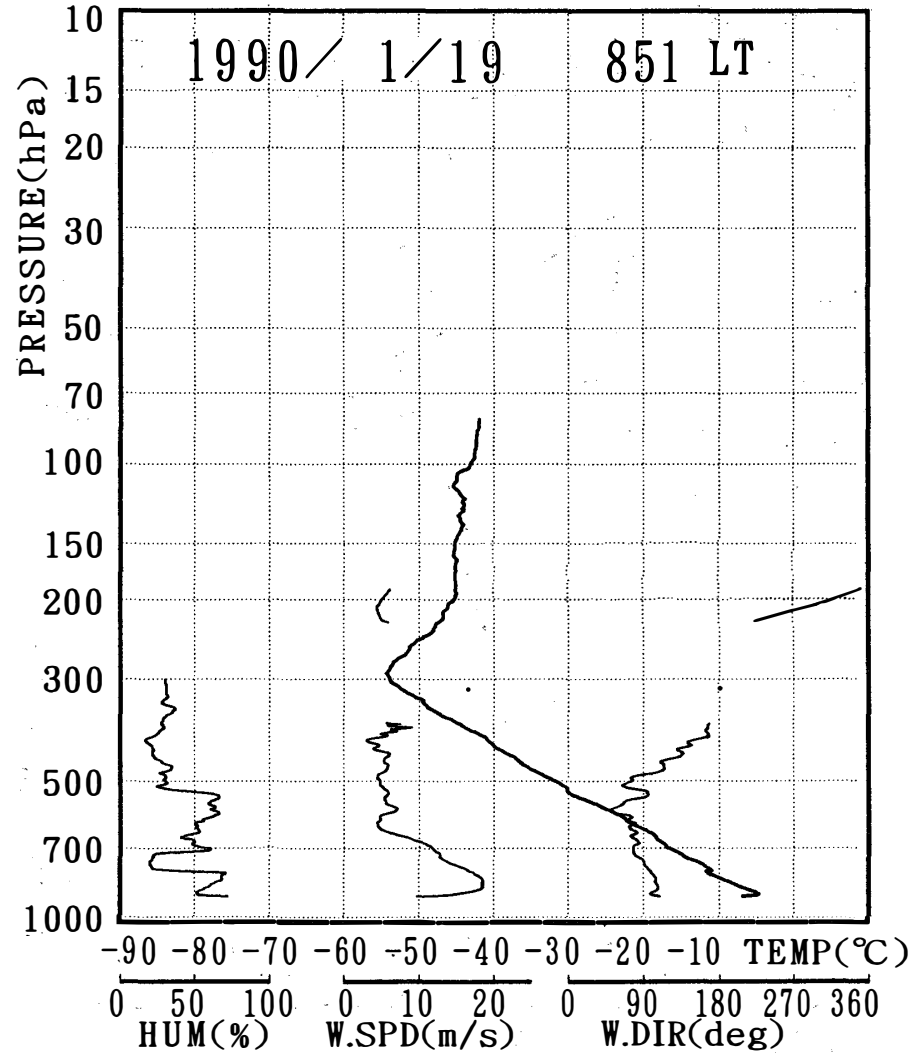


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1990 Jan. 19 8h51m 1 10/30 02

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-9					: 889.8	-7.0	72	: 889.8	110	9.7
: 850	1289	-6.9	58	108	18.4	: 884.4	-5.1	53	: 878.8	98	14.9
: 700	2775	-16.5	60	77	11.9	: 878.8	-4.7	52	: 852.2	108	18.4
: 500	5233	-31.7	31	74	4.8	: 790.3	-11.5	71	: 815.3	105	18.5
: 400	6776	-41.2	21	167	5.0	: 775.0	-11.1	22	: 716.9	78	12.7
: 300	8673	-53.9	30	///	///	: 716.9	-15.2	24	: 629.4	73	4.6
: 250	9848	-50.9	///	///	///	: 706.5	-15.9	59	: 614.6	81	4.3
: 200	11320	-45.5	///	///	///	: 696.4	-16.8	57	: 591.4	73	4.9
: 150	13241	-45.3	///	///	///	: 663.8	-18.3	41	: 576.9	48	6.9
: 100	15954	-43.2	///	///	///	: 651.0	-18.7	48	: 551.0	68	5.5
: 70	18365					: 588.4	-23.5	66	: 540.2	92	5.4
						: 534.3	-29.5	65	: 526.0	96	5.8
						: 513.7	-30.4	25	: 511.2	65	4.9
						: 405.0	-40.9	17	: 486.9	77	4.4
						: 400.5	-41.1	21	: 473.4	112	5.5
						: 346.2	-48.4	37	: 453.0	110	5.3
						: 344.1	-48.9	36	: 441.2	134	5.8
						: T 298.6	-54.0	30	: 426.5	129	4.1
						: 250.9	-51.0		: 417.4	148	4.8
						: 219.0	-46.8		: 410.1	142	3.3
						: 188.5	-45.1		: 407.6	146	2.9
						: 174.7	-45.2		: 398.3	169	5.8
						: 172.6	-45.1		: 372.0	169	5.6
						: 100.2	-43.3		: 369.9	///	///
						: 79.0	-42.0		: 312.1	///	///
									: 224.2	223	5.9
									: 189.6	353	6.1

ASUKA

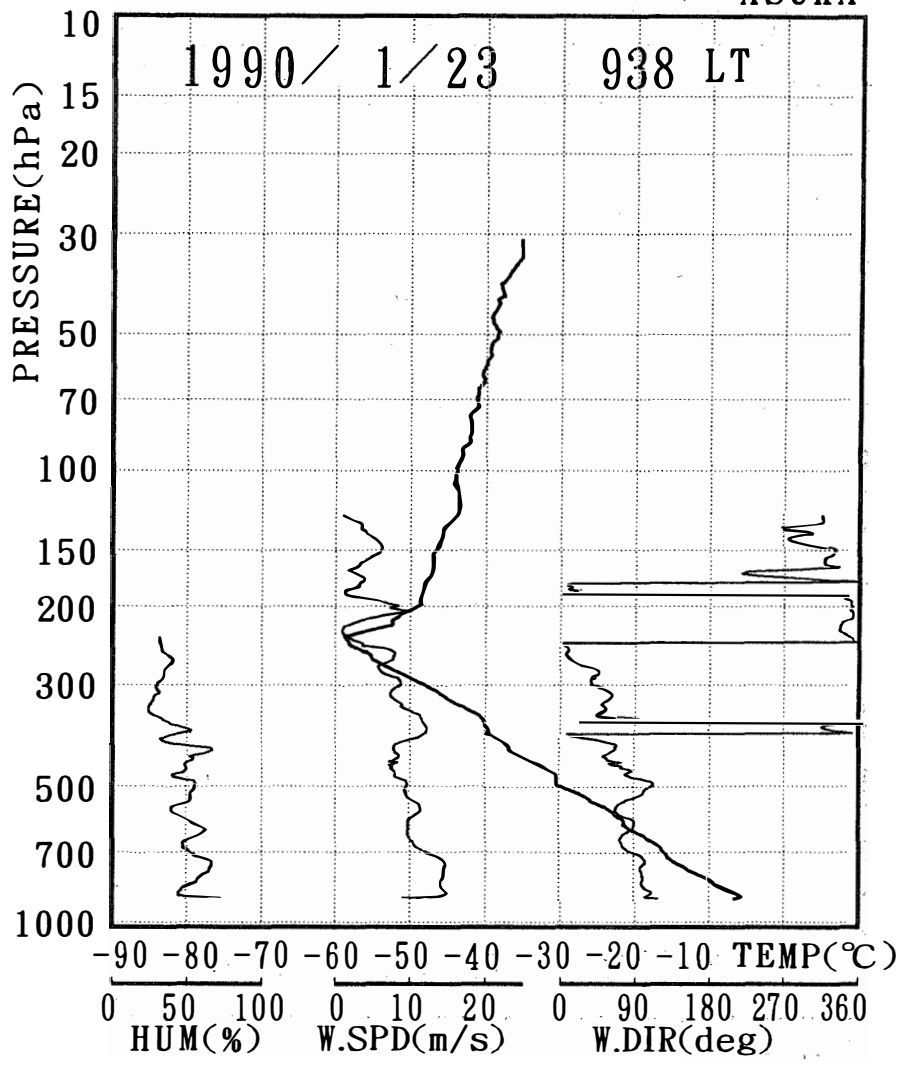


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1990 Jan. 23 9h38m 4 15/01 02

STANDARD LEVELS							TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V	
1000	-101					879.9	-6.7	73	879.9	120	9.0	
850	1200	-6.9	45	112	14.9	868.6	-5.6	44	874.3	104	12.7	
700	2686	-15.8	52	91	12.3	730.9	-14.7	67	857.2	112	15.0	
500	5164	-29.4	55	106	9.3	711.0	-15.5	55	816.7	99	14.1	
400	6732	-37.3	37	60	8.9	679.8	-16.4	47	725.9	104	14.4	
300	8679	-47.9	29	47	8.3	621.8	-20.3	64	674.6	76	10.8	
250	9856	-56.8	33	9	7.3	568.8	-22.8	40	595.2	91	9.9	
200	11284	-49.2		352	7.7	531.6	-25.9	53	560.9	67	11.5	
150	13183	-46.7		331	6.0	491.9	-30.5	55	495.0	113	9.6	
100	15897	-43.9	///	///	///	469.9	-30.5	40	483.7	108	9.2	
70	18306	-41.3	///	///	///	413.7	-36.9	67	469.9	79	8.0	
50	20602	-38.6	///	///	///	392.8	-37.9	32	459.8	88	7.6	
30	24129					376.3	-39.6	53	443.7	59	8.3	
						357.0	-40.2	34	440.9	75	7.1	
						257.4	-55.3	38	427.0	52	8.5	
						T 233.0	-58.8	32	405.0	70	8.0	
						217.6	-52.3		389.9	33	11.0	
						196.5	-48.5		374.0	320	12.2	
						100.5	-44.0		366.7	321	12.0	
						30.9	-35.4		361.7	354	11.7	
									354.8	95	11.5	
									348.5	44	11.3	
									311.9	63	7.3	
									297.1	37	8.8	
									276.3	47	5.8	
									253.8	6	7.9	
									226.4	340	0.8	
									204.1	353	9.5	
									186.3	2	1.2	
									147.7	327	6.3	
									140.1	276	5.0	
									124.6	317	1.0	

ASUKA



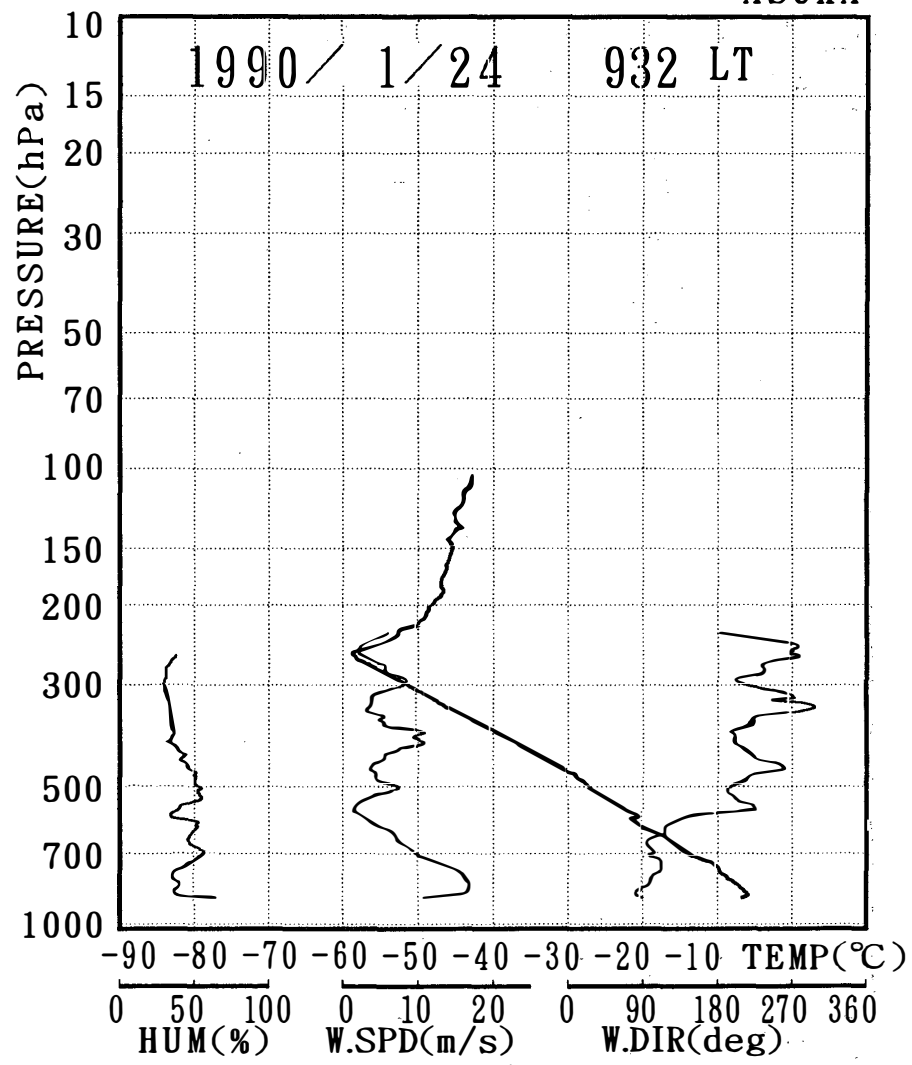


UPPER AIR OBSERVATIONS (ASUKA)

DATE 1990 Jan. 24 TIME 9h32m WEATHER 1 10/31 02

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-154					874.8	-6.9	65	874.8	90	10.9
850	1155	-6.2	37	84	16.7	862.0	-5.9	39	844.9	85	16.9
700	2654	-13.9	56	105	9.8	755.4	-9.8	41	782.8	105	16.3
500	5143	-27.1	53	195	7.5	589.3	-21.4	45	760.2	114	15.3
400	6721	-36.7	33	201	10.8	582.0	-20.4	35	672.2	96	8.3
300	8651	-51.1	31	217	8.0	504.0	-27.0	55	566.0	207	1.6
250	9812	-56.9		273	2.2	402.2	-36.4	35	479.0	219	4.5
200	11261	-48.2		///	///	257.1	-58.6	38	447.2	258	4.3
150	13169	-45.5		///	///	227.4	-52.5		428.9	224	5.7
100	15888					208.4	-48.7		402.2	202	11.0
						103.1	-42.7		378.2	198	10.7
									358.6	228	5.0
									341.5	278	3.3
									308.7	255	5.6
									295.4	207	8.6
									289.8	207	8.4
									278.9	239	5.6
									239.3	250	3.8
									230.3	185	6.2

ASUKA

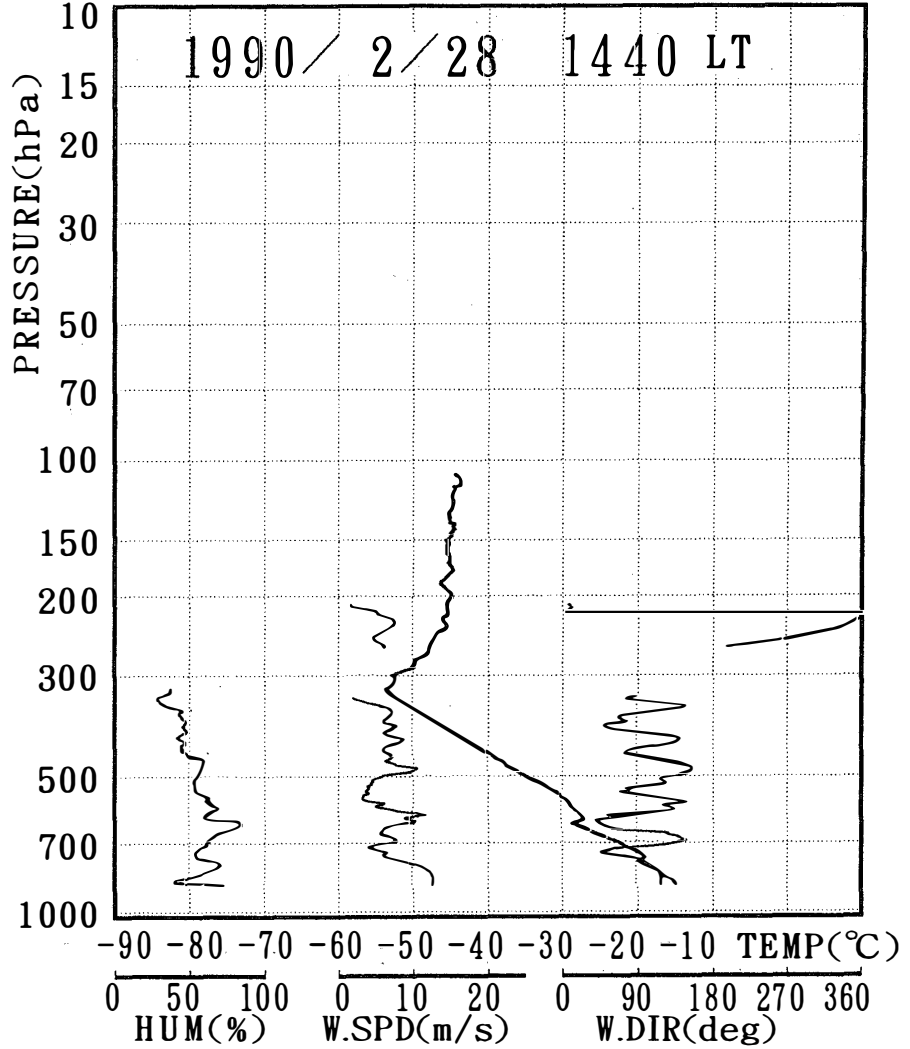


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1990 Feb. 28 14h40m 6 60/71 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-146					871.5	-14.6	73	871.5	120	12.7
850	1120	-15.2	41	120	12.8	854.3	-15.0	40	800.4	115	11.8
700	2566	-22.3	61	135	6.8	770.4	-19.7	67	756.1	86	6.7
500	4975	-34.7	56	135	5.8	756.1	-18.8	55	734.8	48	6.6
400	6501	-44.5	47	86	6.2	636.2	-28.6	84	717.3	77	4.0
300	8378	-52.4	///	///	///	618.8	-27.0	62	699.4	135	6.8
250	9574	-47.3	266	5.0	537.1	-30.9	54	689.6	149	7.9	
200	11059	-44.9	///	///	475.9	-37.4	59	664.8	128	5.7	
150	12978	-45.5	///	///	359.7	-49.6	46	653.1	61	6.1	
100	15691				327.4	-53.0	37	628.5	41	10.2	
					T 319.8	-53.6	37	615.6	70	9.0	
						233.3	-45.4		609.5	56	11.8
						106.8	-44.4		601.9	117	10.4
									593.5	136	8.0
									579.6	121	4.9
									570.5	151	6.2
									559.6	130	3.1
									506.1	119	4.6
									483.7	156	10.3
									478.5	156	10.6
									463.9	132	6.5
									449.3	79	7.2
									437.0	87	6.0
									422.7	137	8.0
									411.3	138	8.4
									404.4	119	6.5
									397.8	69	6.5
									387.1	51	8.0
									380.7	79	6.1
									369.8	70	6.8
									355.7	142	6.9
									349.6	145	5.8
									335.4	88	1.8
									333.6	///	///
									259.2	199	6.1
									241.5	313	5.6
									229.1	351	7.6
									208.9	8	1.7

ASUKA

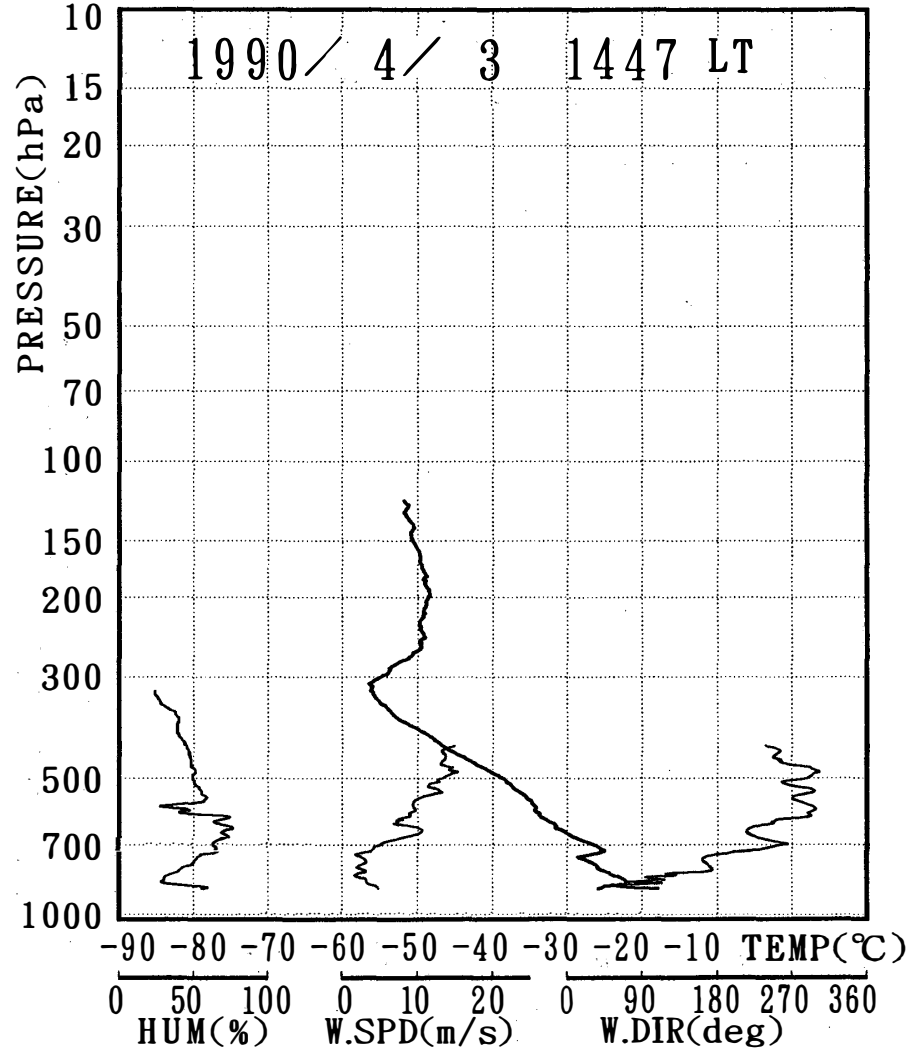


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
 1990 Apr. 3 14h47m 5 20/32 02

STANDARD LEVELS							TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V	
: 1000	-109					: 872.4	-26.0	55	: 872.4	110	4.8	
: 850	1119	-21.9	32	114	3.3	: 848.4	-21.9	30	: 733.6	182	1.7	
: 700	2528	-26.4	63	256	4.8	: 743.5	-28.6	52	: 701.8	252	4.6	
: 500	4890	-38.6	49	287	13.0	: 720.2	-25.1	66	: 690.6	257	5.3	
: 400	6387	-48.6	40	///	///	: 641.9	-31.7	76	: 666.6	221	9.0	
: 300	8235	-55.2	///	///	///	: 605.3	-33.7	74	: 650.8	215	10.6	
: 250	9416	-49.7	///	///	///	: 592.7	-34.1	40	: 628.1	248	6.7	
: 200	10878	-48.7	///	///	///	: 575.8	-34.3	27	: 615.3	251	8.1	
: 150	12763	-50.7	///	///	///	: 549.7	-35.5	59	: 608.0	288	8.3	
: 100	15391					: 505.9	-38.2	50	: 582.8	299	9.6	
						: 409.1	-47.8	42	: 555.7	272	9.7	
						: 338.7	-55.0	28	: 532.5	298	13.0	
						: T 319.8	-56.3	24	: 508.0	257	12.8	
						: 308.5	-56.5		: 499.6	287	13.0	
						: 287.4	-53.7		: 481.5	303	15.3	
						: 244.2	-49.1		: 472.5	293	14.7	
						: 121.2	-51.9		: 460.5	256	13.1	
									: 434.4	256	13.2	
									: 423.5	237	14.9	

ASUKA

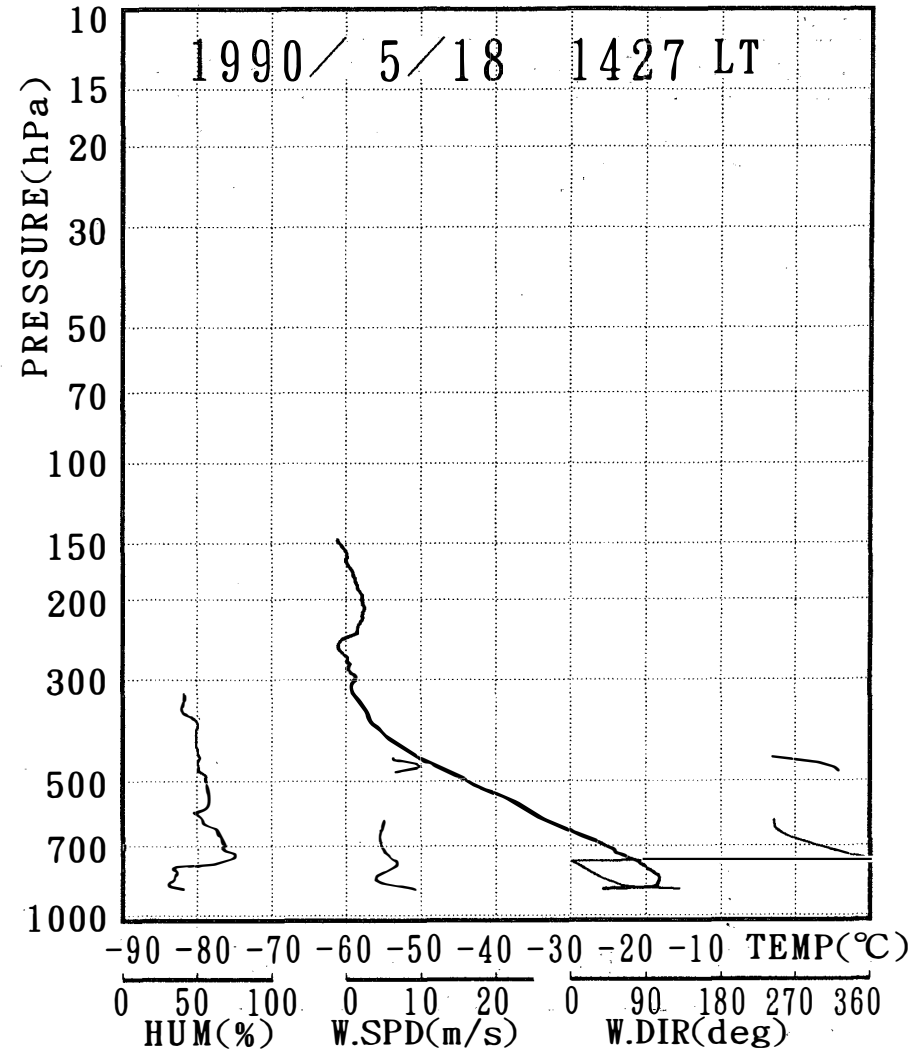


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1990 May 18 14h27m 6 16/36 03

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-148					: 870.3	-25.8	41	: 870.3	130	9.2
: 850	1105	-18.5	30	56	5.7	: 862.7	-19.2	35	: 862.7	79	8.6
: 700	2539	-25.4	67	301	4.8	: 819.9	-18.2	34	: 812.4	31	4.0
: 500	4888	-43.8	56	///	///	: 784.1	-19.9	33	: 610.8	244	4.9
: 400	6349	-54.6	49	///	///	: 735.3	-23.1	75	: 604.9	///	///
: 300	8165	-59.1	///	///	///	: 715.7	-24.2	69	: 475.8	323	6.5
: 250	9304	-61.1	///	///	///	: 587.3	-35.2	47	: 457.1	299	9.2
: 200	10705	-57.9	///	///	///	: 452.4	-49.5	50	: 443.8	242	6.1
: 150	12506	-60.8	///	///	///	: 404.1	-54.3	49			
						: 355.9	-57.2	42			
						: T 319.6	-59.2	41			
						: 249.5	-61.1				
						: 206.6	-57.6				
						: 146.1	-61.1				

ASUKA

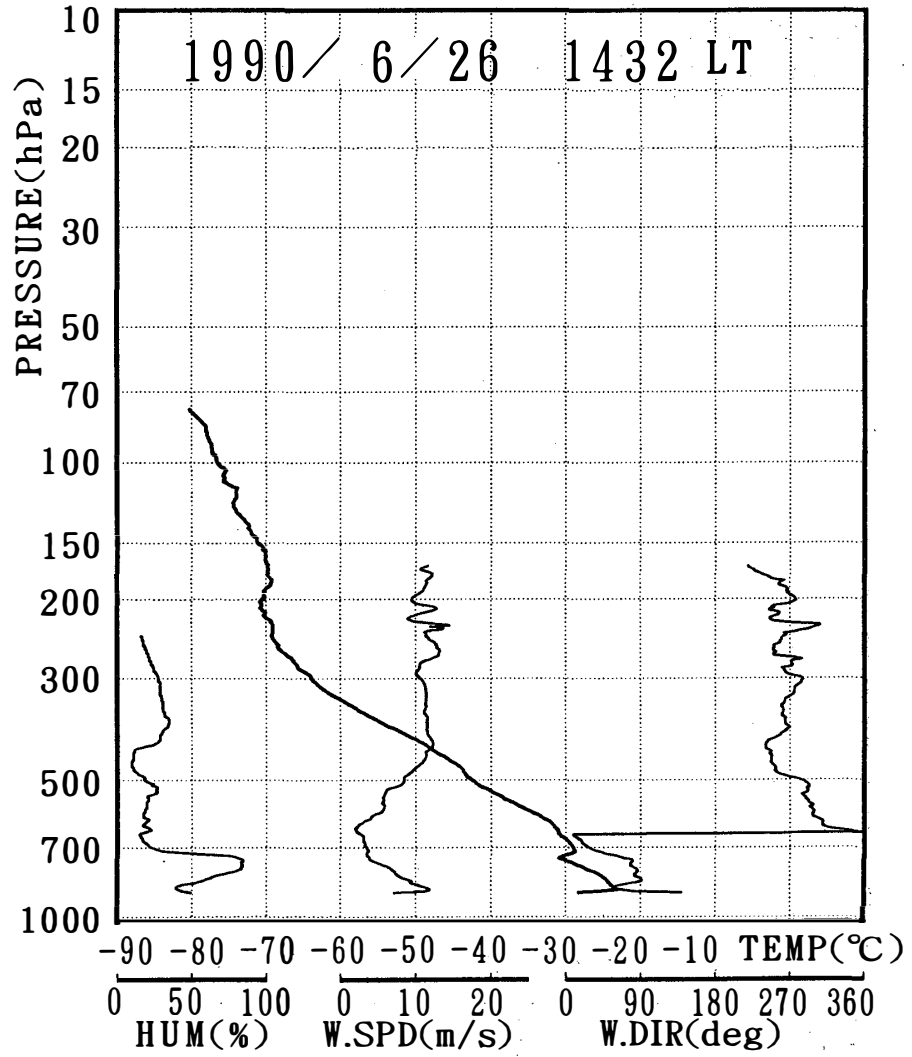


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1990 June 26 14h32m 7 70/7/ 03

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-66					: 876.7	-28.4	49	: 876.7	140	7.1
: 850	1155	-23.8	40	61	10.5	: 865.0	-23.1	41	: 870.9	84	11.0
: 700	2552	-29.0	23	29	3.4	: 797.6	-25.8	72	: 865.0	66	11.9
: 500	4900	-42.4	19	283	8.5	: 770.8	-27.9	83	: 853.4	58	11.1
: 400	6383	-50.8	29	257	11.7	: 738.0	-30.9	81	: 826.2	91	9.5
: 300	8196	-63.8	28	286	10.8	: 712.2	-28.8	31	: 727.7	59	3.4
: 250	9300	-68.6	18	258	12.6	: 668.2	-30.1	17	: 635.8	318	1.9
: 200	10629	-70.7		277	9.4	: 639.7	-31.1	23	: 574.9	294	5.7
: 150	12340	-71.0		///	///	: 511.2	-41.7	23	: 535.8	284	5.8
: 100	14705	-76.5		///	///	: 476.4	-43.7	12	: 514.6	294	7.6
: 70	16735					: 405.4	-50.0	29	: 476.4	251	9.5
						: 366.5	-55.4	35	: 418.0	240	12.3
						: 319.2	-61.9	29	: 382.8	270	11.5
						: 296.5	-63.9	28	: 342.7	259	11.4
						: T 241.1	-69.3	16	: 300.7	286	10.8
						: 156.1	-70.1		: 283.4	259	10.5
						: 100.4	-76.4		: 270.8	285	11.8
						: 75.8	-80.4		: 265.6	250	13.0
									: 238.0	262	11.4
									: 228.7	307	14.5
									: 227.4	305	13.9
									: 224.5	259	10.6
									: 221.9	245	9.1
									: 213.7	257	11.0
									: 207.6	247	12.4
									: 201.4	277	9.5
									: 185.7	256	11.3
									: 182.3	264	11.2
									: 168.8	219	11.6

ASUKA

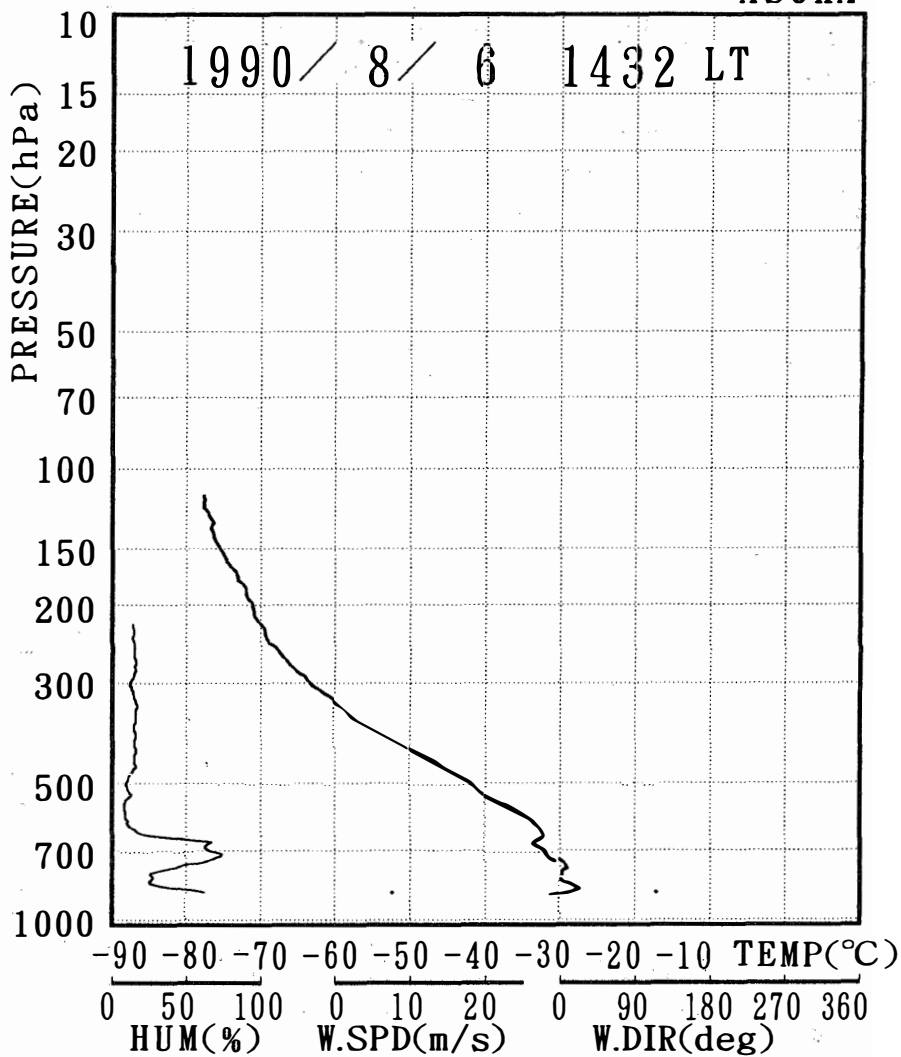


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
 1990 Aug. 6 14h32m 2 20/30 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-151					: 865.7	-31.3	62	: 865.7	115	7.6
: 850	1060	-28.3	52	///	////	: 859.1	-29.2	61			
: 700	2444	-31.8	65	///	////	: 838.6	-27.3	36			
: 500	4787	-41.5	10	///	////	: 819.3	-28.5	25			
: 400	6268	-51.8	15	///	////	: 800.4	-29.8	28			
: 300	8082	-63.3	12	///	////	: 775.7	-29.8	30			
: 250	9190	-67.9	15	///	////	: 763.0	-29.1	40			
: 200	10518	-71.1		///	////	: 711.5	-31.6	74			
: 150	12203	-75.5		///	////	: 668.4	-33.5	67			
: 100	14528					: 641.4	-32.0	19			
						: 610.4	-33.0	10			
						: 589.6	-33.9	9			
						: 361.3	-56.6	16			
						: 301.6	-63.2	12			
						: 228.8	-69.4	15			
						: 219.6	-70.0	14			
						: 142.6	-76.2				
						: 113.8	-77.7				

ASUKA

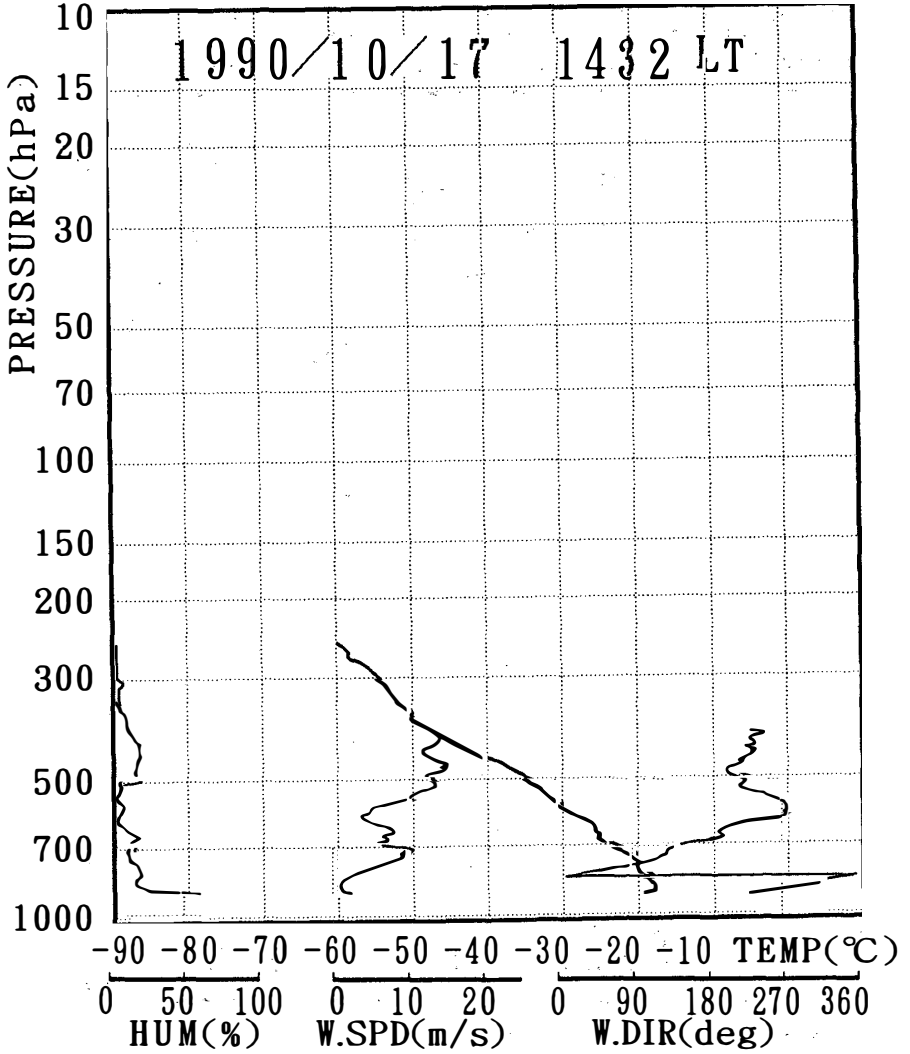


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
 1990 Oct. 17 14h32m 1 00901 02

STANDARD LEVELS	TEMP & HUM SIG.L			WIND SIG.L					
	P	T	U	P	D	V			
1000	-7			886.3	-18.3	61	886.3	230	2.5
850	1244	-17.0	19	881.0	-17.5	29	811.8	15	2.5
700	2686	-22.9	14	857.0	-16.9	21	746.0	118	8.9
500	5099	-34.3	16	758.3	-19.0	16	704.6	139	9.4
400	6622	-45.6	15	672.0	-24.6	21	667.1	198	6.5
300	8496	-54.4	5	637.0	-25.0	9	632.2	205	6.7
250	9649	-60.0	3	516.5	-32.9	7	601.9	272	3.7
				360.9	-50.2	10	551.4	264	10.2
				249.8	-60.0	3	516.5	219	13.7
							501.1	225	12.9
							479.9	202	14.3
							437.7	235	12.0
							405.0	230	14.2
							393.1	248	13.3
							389.9	231	13.5

ASUKA

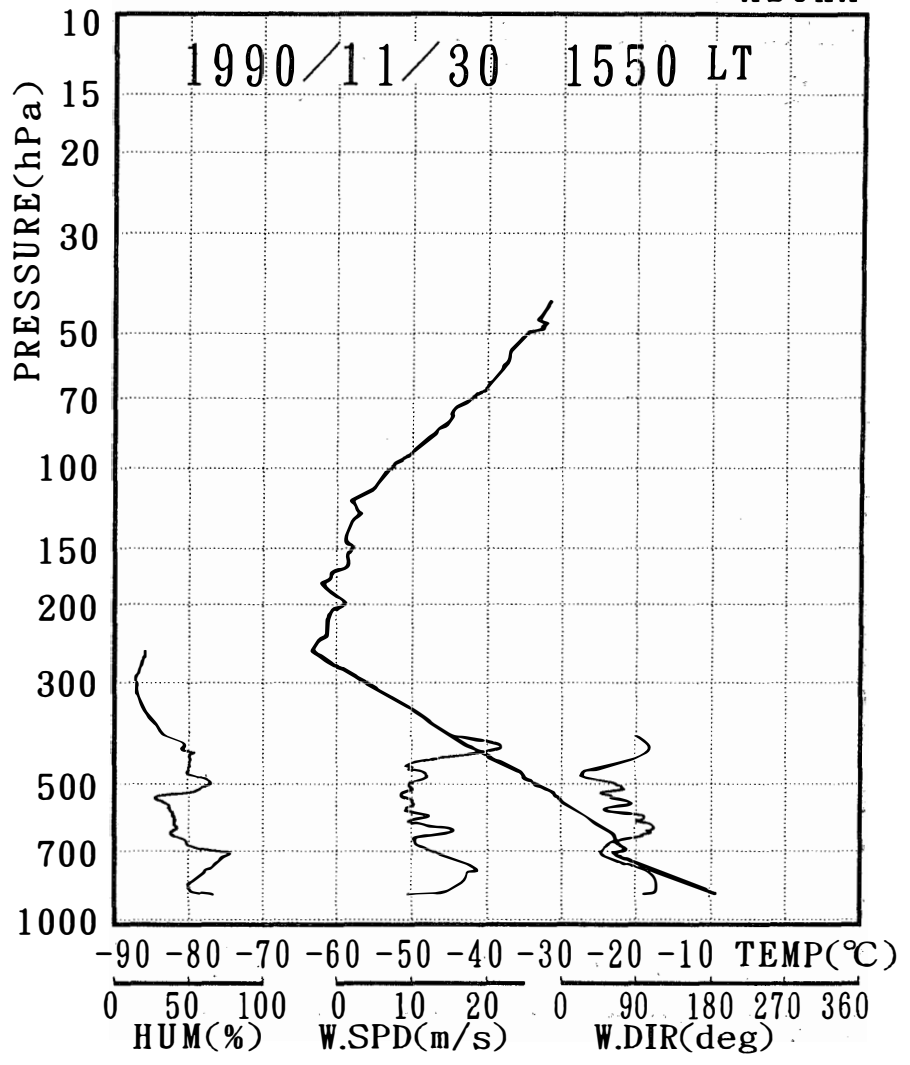


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1990 Nov. 30 15h50m 6 60/50 03

STANDARD LEVELS							TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V	
: 1000	-153					: 872.1	-9.1	67	: 872.1	100	9.4	
: 850	1129	-11.0	51	115	15.1	: 829.8	-12.7	49	: 852.6	115	15.1	
: 700	2582	-22.3	72	49	12.5	: 703.2	-22.9	78	: 793.4	111	17.3	
: 500	5012	-33.3	64	64	9.5	: 692.8	-21.3	61	: 772.1	102	18.8	
: 400	6547	-43.6	43	101	19.6	: 647.4	-22.7	39	: 708.4	49	13.6	
: 300	8430	-55.9	15	///	///	: 534.1	-30.4	27	: 667.9	60	10.4	
: 250	9569	-63.1	///	///	///	: 497.4	-33.6	65	: 634.8	108	15.1	
: 200	10951	-59.2	///	///	///	: 478.6	-35.1	54	: 611.6	109	11.8	
: 150	12748	-58.0	///	///	///	: 314.7	-53.7	15	: 600.3	90	9.4	
: 100	15316	-52.9	///	///	///	: T 253.3	-63.3	21	: 584.1	99	12.4	
: 70	17673	-42.4	///	///	///	: 197.4	-58.9		: 568.6	53	9.1	
: 50	19987	-34.8	///	///	///	: 178.4	-62.1		: 549.7	86	10.1	
:						: 162.8	-58.5		: 525.7	53	8.6	
:						: 117.5	-58.1		: 522.8	47	8.7	
:						: 100.0	-52.9		: 511.6	76	10.1	
:						: 66.9	-40.4		: 494.4	62	9.7	
:						: 42.2	-31.6		: 478.6	24	12.1	
:									: 467.1	27	11.3	
:									: 453.1	60	9.3	
:									: 433.5	95	15.3	
:									: 413.4	107	22.0	
:									: 391.5	92	15.8	

ASUKA



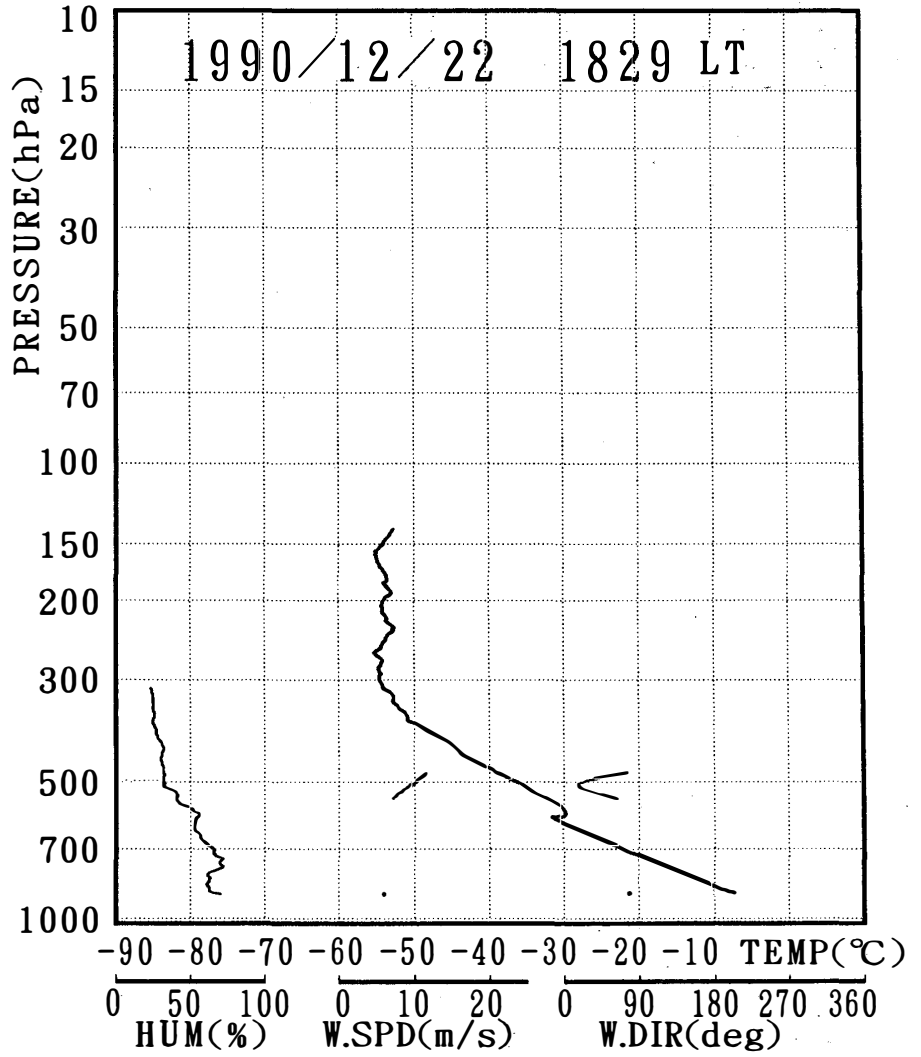


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1990 Dec 22 18h29m 3 21/30 02

: P	STANDARD LEVELS					TEMP & HUM SIG.L			WIND SIG.L		
	H	T	U	D	V	P	T	U	P	D	V
: 1000	-119					: 876.7	-7.1	70	: 876.7	80	5.9
: 850	1169	-9.6	62	///	///	: 598.3	-31.5	55	: 871.3	///	///
: 700	2633	-22.1	66	///	///	: 585.6	-29.8	55	: 546.6	66	7.2
: 500	5030	-36.2	32	21	10.1	: 555.5	-31.1	42	: 520.9	25	8.8
: 400	6541	-46.4	28	///	///	: 433.6	-43.7	31	: 500.7	21	10.1
: 300	8409	-54.6		///	///	: 360.7	-50.9	26	: 477.3	78	11.7
: 250	9576	-54.4		///	///	: T 311.5	-54.2	23			
: 200	11009	-54.2		///	///	: 259.8	-55.4				
: 150	12853	-54.2		///	///	: 230.0	-52.6				
						: 155.8	-55.2				
						: 138.5	-52.7				

ASUKA

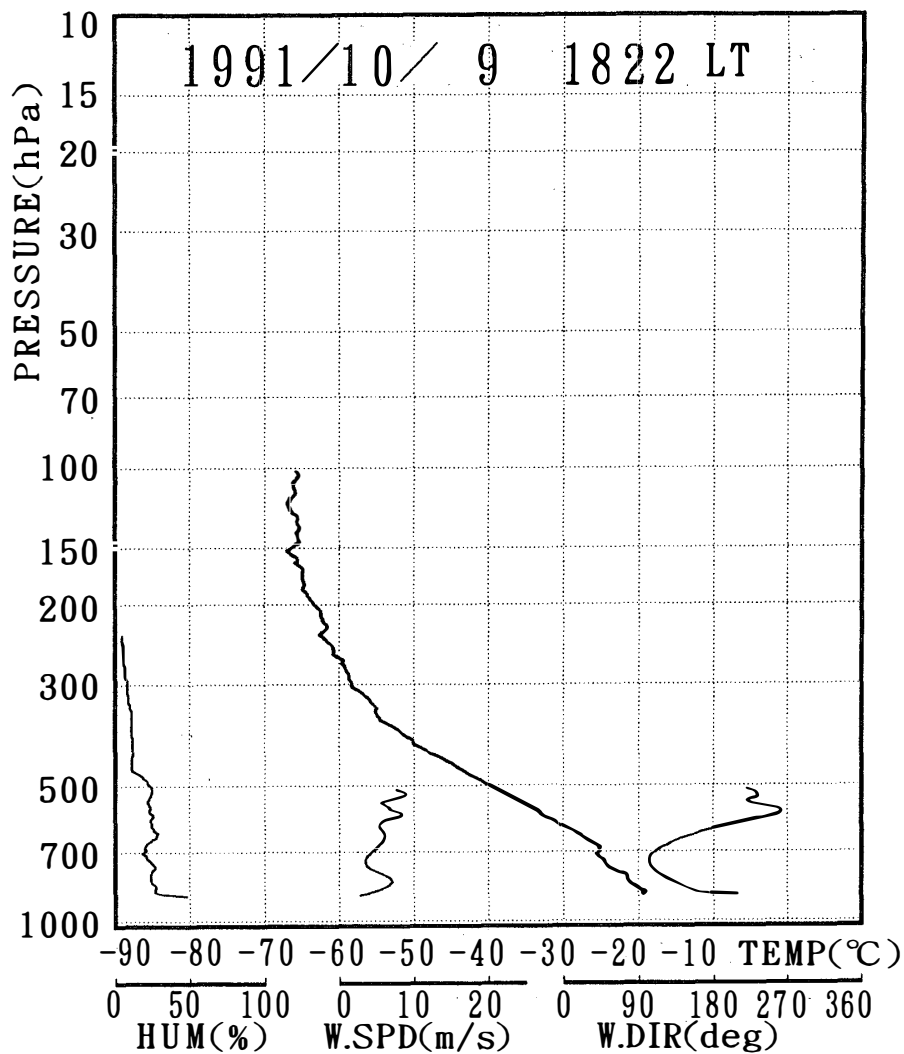


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1991 Oct. 9 18h22m 0 00900 02

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-97					: 875.1	-19.6	48	: 875.1	210	2.6
: 850	1147	-19.8	27	153	5.1	: 858.2	-19.3	27	: 852.0	153	5.1
: 700	2570	-25.3	18	109	4.2	: 796.5	-21.4	24	: 742.9	103	3.5
: 500	4947	-39.7	24	///	///	: 711.3	-25.6	21	: 681.7	119	5.1
: 400	6437	-50.1	12	///	///	: 686.1	-25.1	20	: 635.3	164	5.8
: 300	8279	-58.4	8	///	///	: 403.2	-50.0	12	: 582.6	260	8.4
: 250	9420	-60.9	6	///	///	: 339.9	-55.2	11	: 568.2	262	7.1
: 200	10799	-63.3	///	///	///	: T 232.0	-62.7	5	: 542.5	220	6.0
: 150	12551	-66.6	///	///	///	: 151.8	-67.1		: 533.5	235	7.6
: 100	15010					: 101.4	-65.9		: 511.5	220	7.6

ASUKA

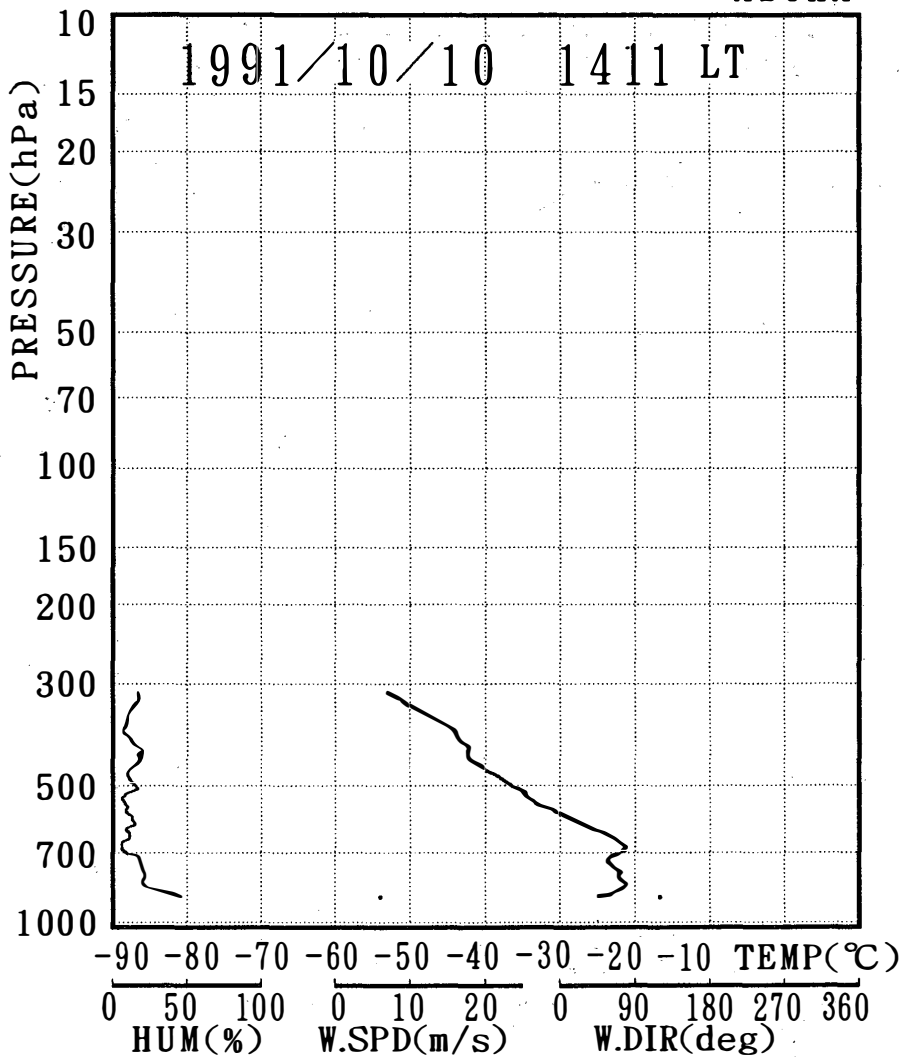


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1991 Oct. 10 14h11m 2 00902 39

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-108					: 873.5	-24.9	46	: 873.5	120	6.0
: 850	1129	-22.3	31	///	///	: 866.7	-23.1	43			
: 700	2555	-21.9	10	///	///	: 818.3	-21.1	20			
: 500	4965	-36.4	16	///	///	: 728.6	-23.6	18			
: 400	6485	-43.4	12	///	///	: 681.7	-21.2	6			
						: 522.1	-34.8	8			
						: 518.4	-34.6	9			
						: 440.8	-41.9	19			
						: 420.7	-42.4	20			
						: 383.9	-43.9	7			
						: 312.4	-53.1	17			

ASUKA

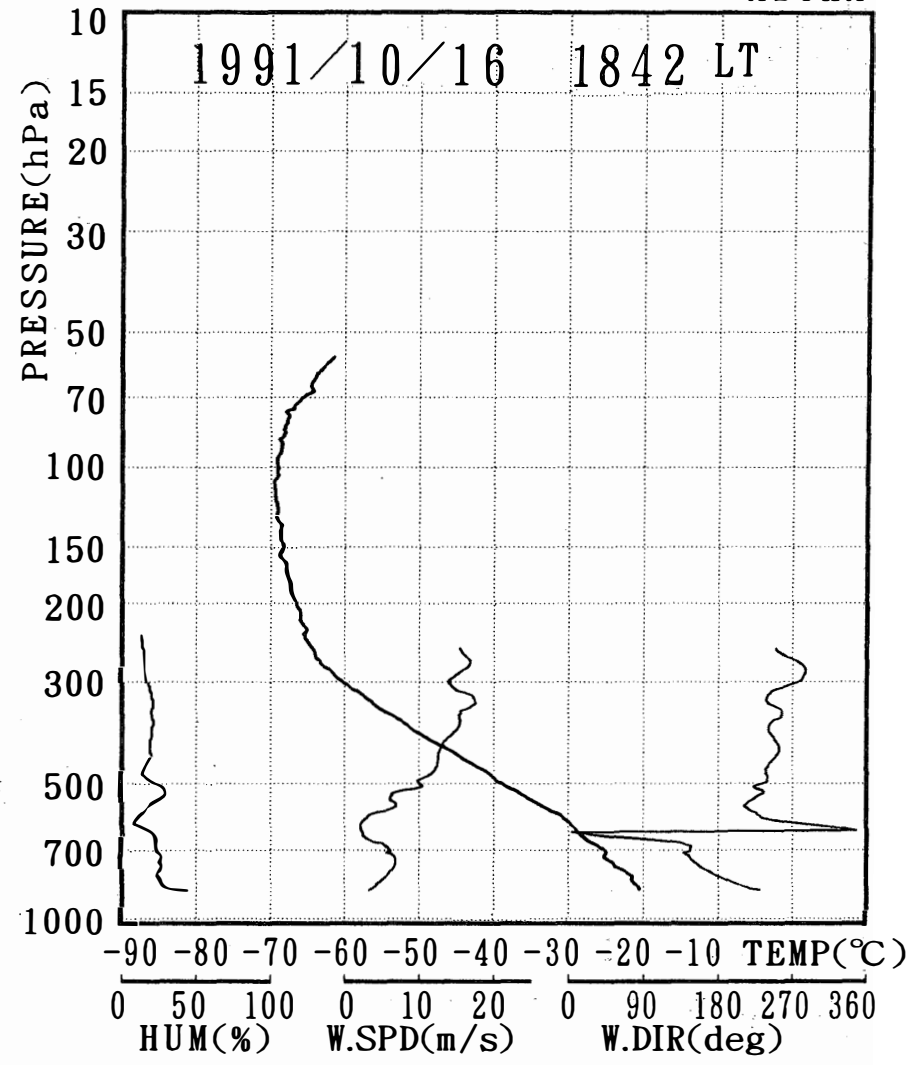


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1991 Oct. 16 18h42m 1 00901 02

STANDARD LEVELS							TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V	
1000	-224					860.9	-20.5	45	860.9	230	3.1	
850	1025	-20.7	33	214	3.7	708.2	-25.0	26	768.4	162	6.5	
700	2447	-25.2	24	147	6.2	587.8	-30.9	13	708.2	138	5.5	
500	4827	-38.9	24	232	10.0	520.0	-36.8	30	685.1	148	5.5	
400	6328	-48.6	19	248	13.6	336.4	-55.9	21	664.7	109	3.4	
300	8169	-60.1	18	274	13.9	259.6	-64.0	16	612.5	283	2.2	
250	9293	-64.5	15	///	///	T 233.6	-65.6	14	574.1	221	5.0	
200	10649	-66.6	///	///	///	100.0	-69.0		546.9	217	6.3	
150	12380	-68.3	///	///	///	75.1	-68.0		520.0	235	6.9	
100	14803	-69.0	///	///	///	56.5	-61.4		508.7	222	10.1	
70	16944	-65.9	///	///	///				495.0	238	9.8	
50	19020								422.8	254	12.7	
									375.4	240	15.2	
									353.6	257	15.3	
									333.2	240	17.6	
									313.3	244	15.1	
									297.2	280	13.9	
									279.1	285	16.2	
									251.2	250	15.5	

ASUKA

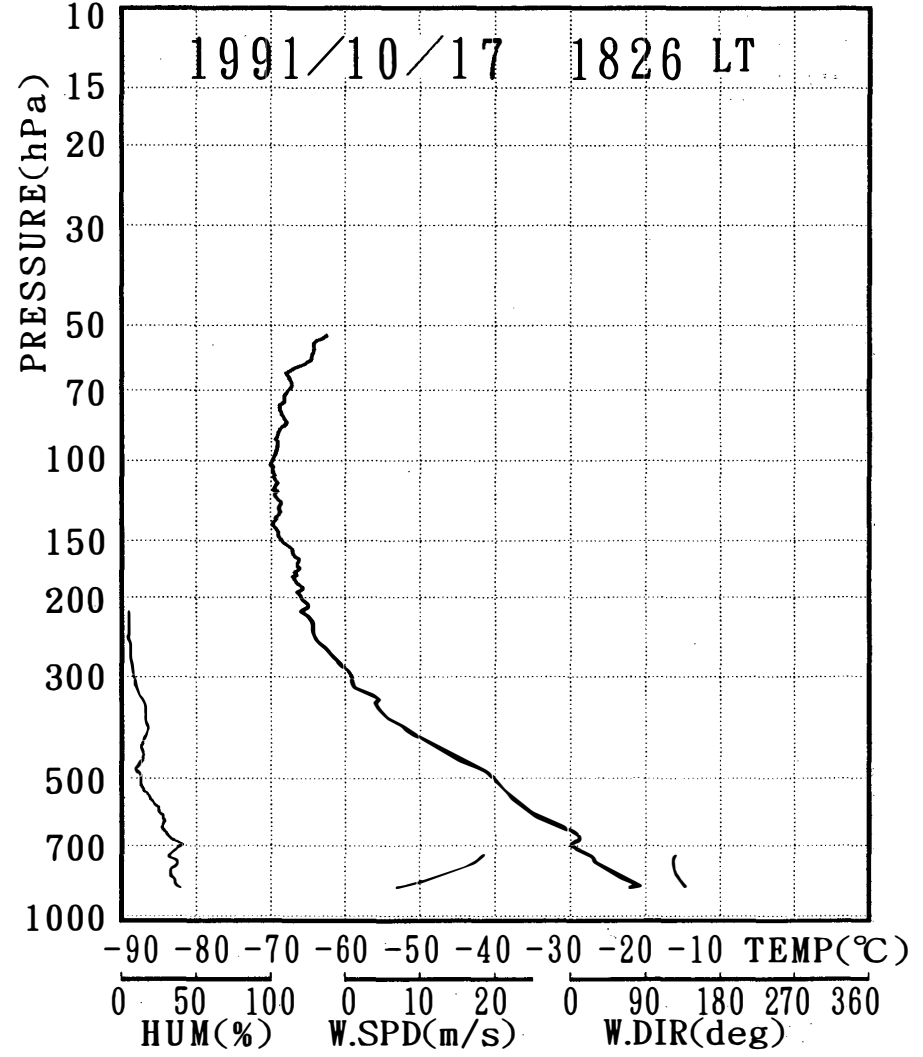


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1991 Oct. 17 18h26m 1 10/30 02

STANDARD LEVELS							TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V	
1000	-203					862.2	-22.0	40	862.2	140	6.9	
850	1035	-20.9	37	137	8.9	854.9	-20.6	38	734.4	128	18.7	
700	2443	-29.8	40	///	///	697.7	-30.0	41				
500	4794	-40.0	13	///	///	674.6	-28.7	33				
400	6284	-50.8	16	///	///	604.3	-34.4	28				
300	8118	-59.1	9	///	///	479.1	-41.4	10				
250	9249	-63.6	6	///	///	399.7	-50.8	16				
200	10611	-65.9		///	///	341.3	-55.9	15				
150	12350	-68.5		///	///	237.9	-64.4	5				
100	14769	-69.9		///	///	T 214.3	-65.9	5				
70	16903	-67.8		///	///	T 138.6	-69.8					
50	18952						100.5	-70.0				
							63.7	-68.1				
							52.4	-62.4				

ASUKA

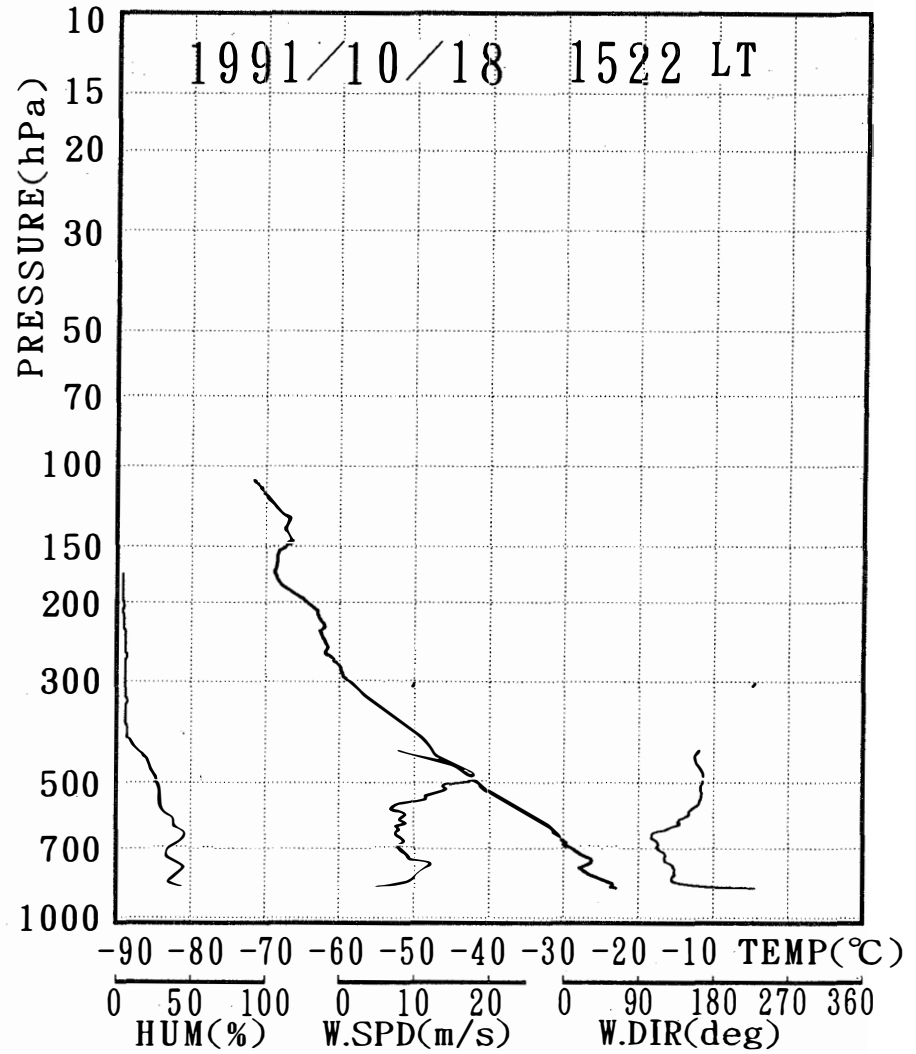


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1991 Oct. 18 15h22m 1 10/30 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-235					858.0	-22.9	43	858.0	230	4.8
850	999	-23.7	38	174	7.0	772.3	-28.0	44	850.7	174	7.0
700	2401	-28.9	35	113	7.7	742.6	-26.3	35	837.5	139	9.0
500	4746	-41.9	27	166	15.2	645.8	-31.5	45	766.3	132	12.1
400	6232	-48.9	8	///	///	625.1	-32.2	38	661.4	105	7.7
300	8077	-58.7	6	///	///	435.6	-47.6	17	615.0	140	8.7
250	9213	-61.7	6	///	///	409.5	-48.2	10	574.2	152	6.7
200	10588	-64.4	5	///	///	325.2	-56.8	7	493.0	167	18.1
150	12319	-67.4	5	///	///	259.6	-62.0	7	427.1	162	7.8
100	14739					251.2	-61.6	6	422.5	///	///
						241.6	-62.1	6	309.5	225	9.7
						230.9	-62.7	6	303.9	229	10.0
						T 172.0	-68.9	4			
							146.3	-66.4			
							110.1	-71.2			
							107.6	-71.8			

ASUKA

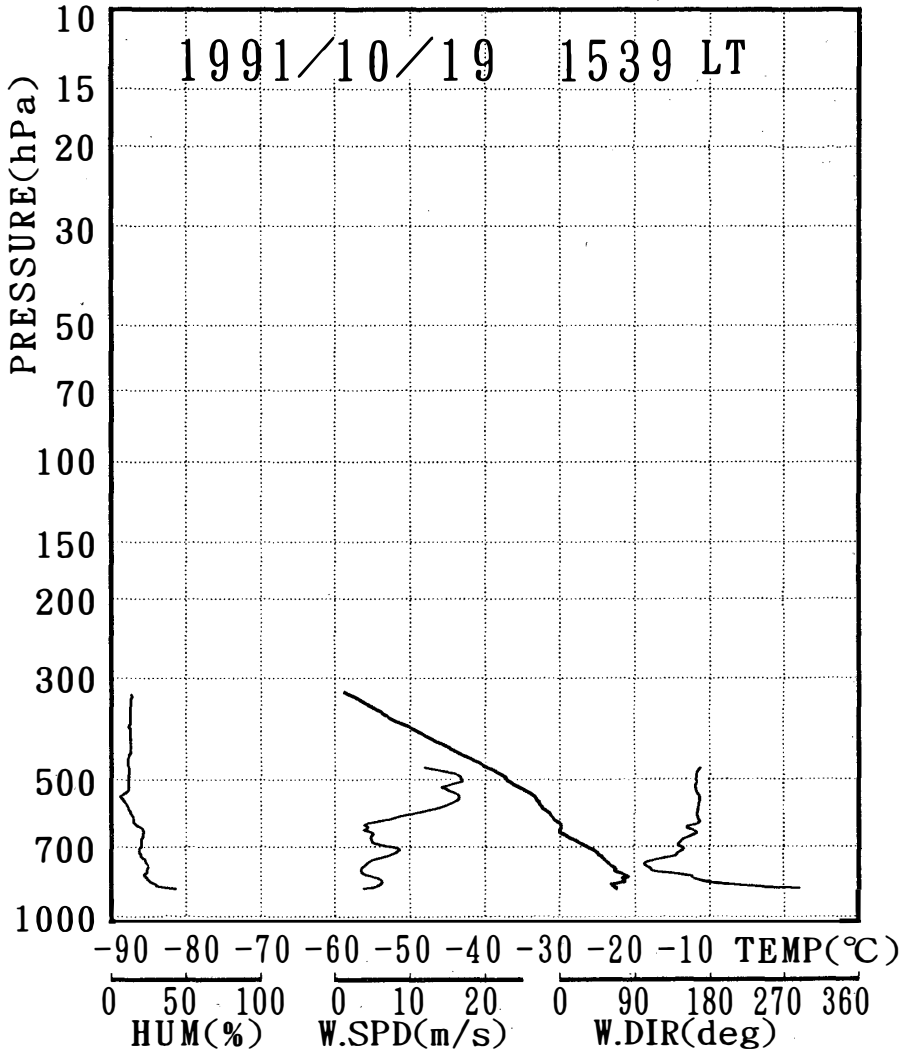


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1991 Oct. 19 15h39m 1 11/00 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-210					862.2	-22.4	43	862.2	290	3.8
850	1035	-23.0	30	221	5.7	844.3	-23.2	30	856.6	247	5.3
700	2455	-26.3	19	148	8.2	811.6	-20.9	23	844.3	199	6.1
500	4834	-37.0	12	165	17.0	648.6	-30.1	22	767.6	103	4.0
400	6344	-47.9	13	///	///	627.6	-29.9	17	708.4	149	8.7
300	8181					537.5	-33.7	8	627.6	160	3.9
						475.0	-38.9	12	563.7	167	15.4
						323.5	-58.1	13	505.1	165	17.0
						318.9	-58.9		469.7	169	11.9

ASUKA

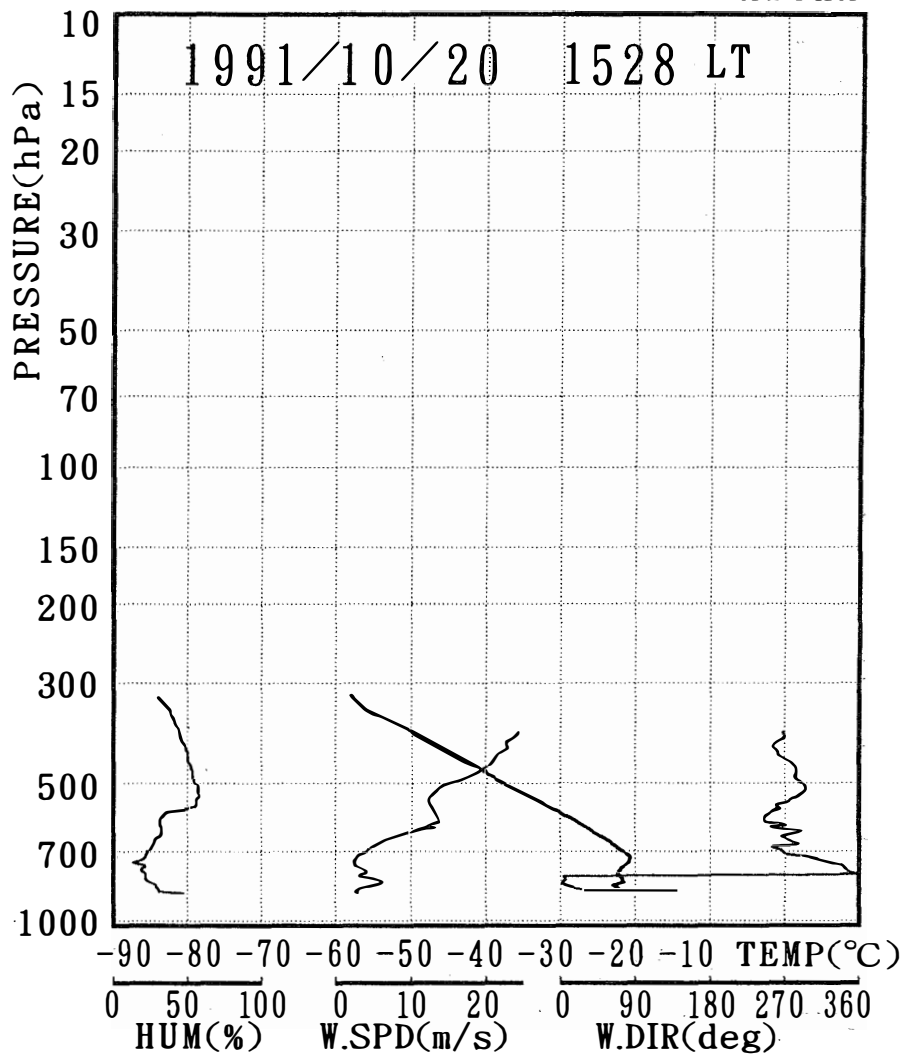


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1991 Oct. 20 15h28m 3 00901 02

STANDARD LEVELS							TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V	
1000	-208					862.6	-21.6	47	862.6	140	2.9	
850	1039	-22.0	31	35	2.6	829.6	-23.1	29	822.7	1	5.7	
700	2468	-21.6	23	267	4.1	803.3	-21.8	22	779.5	353	3.8	
500	4872	-37.7	54	290	15.1	779.5	-22.4	22	733.0	314	2.3	
400	6377	-48.0	45	265	23.0	715.7	-21.0	22	646.9	270	8.1	
300	8218					621.6	-26.4	32	631.6	290	10.5	
						610.4	-27.2	31	621.6	252	13.2	
						555.7	-32.1	55	616.1	272	11.9	
						463.9	-40.6	52	604.9	246	13.6	
						400.7	-47.9	45	555.7	258	12.7	
						392.2	-48.9	44	536.8	285	12.3	
						380.5	-50.2	43	503.8	293	14.3	
						343.0	-56.1	38	417.7	256	22.8	
						331.0	-57.1	33	384.1	267	24.3	
						319.8	-58.0	29				
						316.8	-58.2					

ASUKA



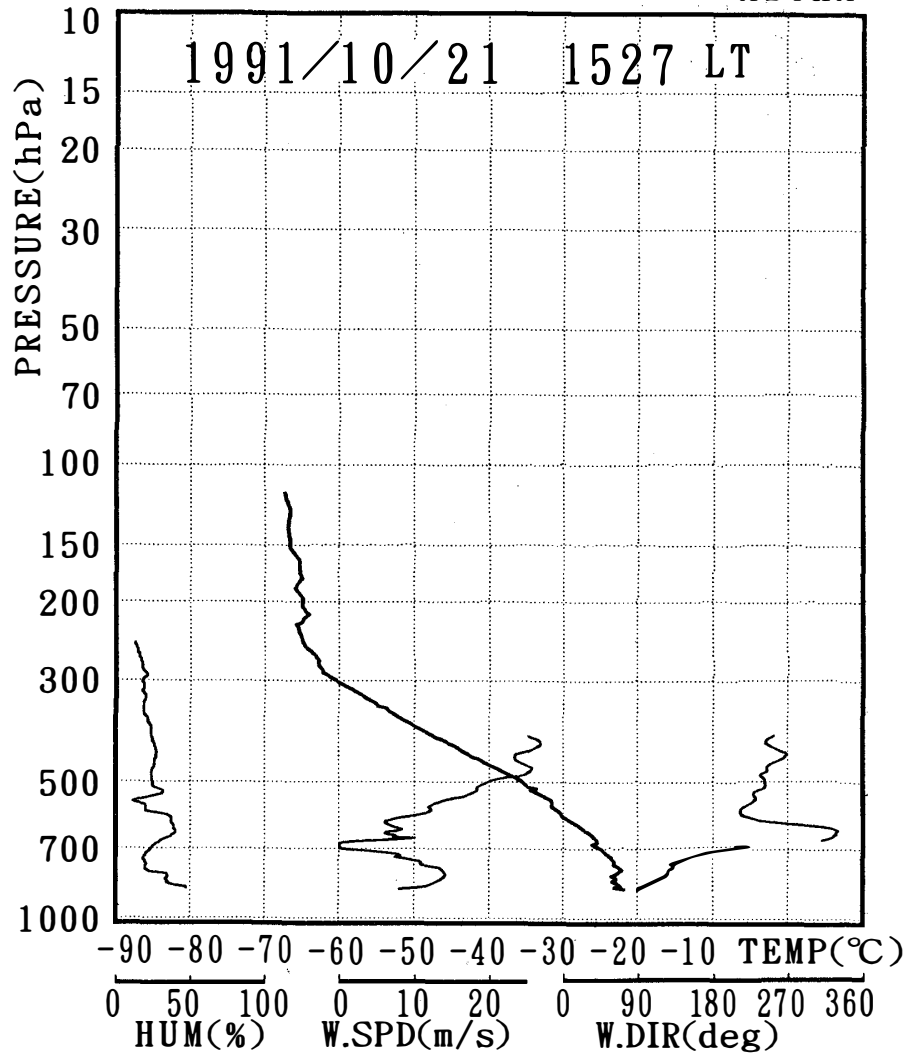


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1991 Oct. 21 15h27m 1 10/30 02

: P	STANDARD LEVELS					TEMP & HUM SIG.L			WIND SIG.L		
	H	T	U	D	V	P	T	U	P	D	V
: 1000	-284					: 854.2	-21.7	47	: 854.2	90	8.0
: 850	966	-22.8	47	94	10.9	: 848.7	-23.1	47	: 799.4	126	14.1
: 700	2388	-24.9	23	224	1.7	: 823.5	-23.4	35	: 757.0	129	10.8
: 500	4785	-35.5	25	241	19.8	: 799.4	-23.6	35	: 723.6	164	8.2
: 400	6301	-46.9	25	247	26.3	: 775.5	-22.1	20	: 696.9	-	0.0
: 300	8151	-60.2	18	///	///	: 682.4	-26.2	27	: 677.3	-	0.0
: 250	9274	-64.6	14	///	///	: 652.1	-26.1	37	: 662.1	325	10.1
: 200	10634	-64.9		///	///	: 550.9	-31.6	11	: 647.2	328	6.0
: 150	12383	-66.7		///	///	: 519.7	-34.4	30	: 632.8	324	8.4
: 100	14828					: 515.6	-33.6	27	: 607.1	234	6.1
:						: 339.3	-54.9	19	: 588.4	213	10.5
:						: 286.6	-62.3	20	: 507.4	243	18.8
:						: 275.3	-62.8	18	: 479.0	238	25.0
:						: T 246.4	-64.9	13	: 433.3	269	23.5
:						: 210.5	-64.5		: 410.9	243	27.0
:						: 172.3	-65.3		: 394.6	254	25.3
:						: 114.7	-67.4				

ASUKA

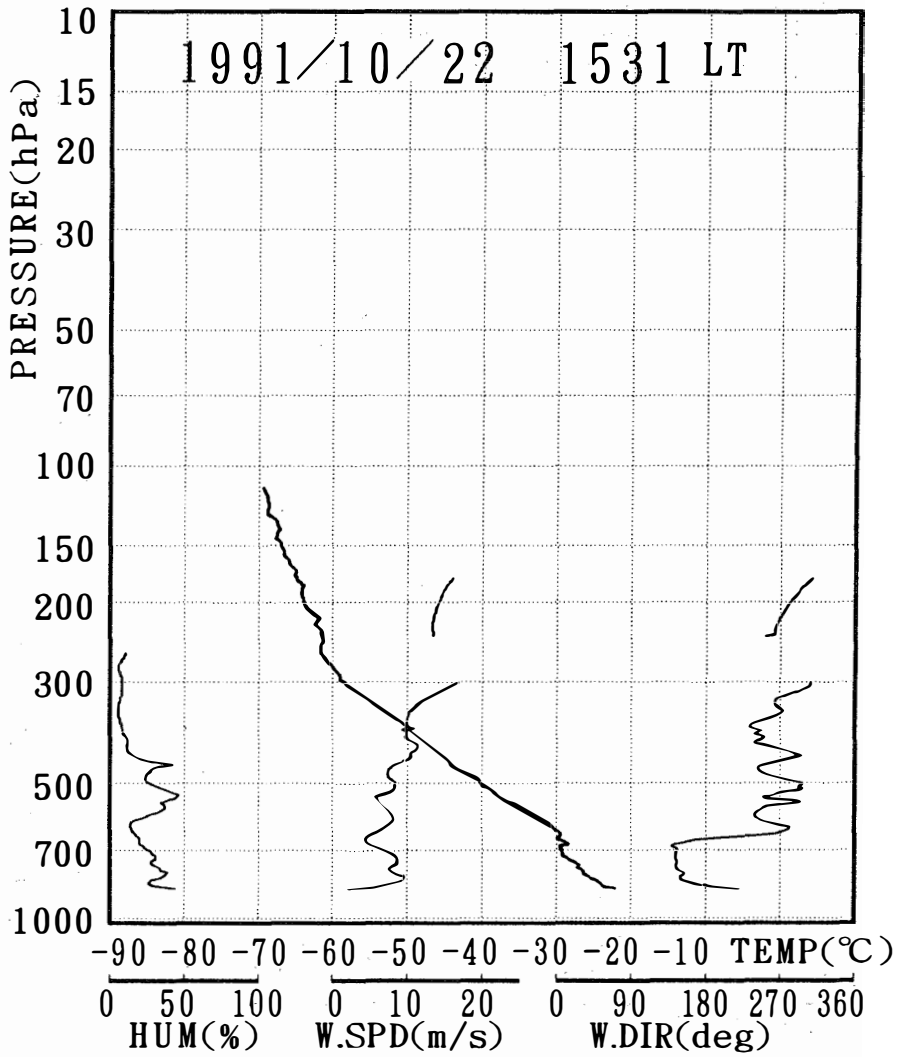


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1991 Oct. 22 15h31m 1 00901 02

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-307					: 850.3	-22.1	44	: 850.3	220	2.1
: 850	933	-22.2	44	220	2.1	: 844.3	-23.6	35	: 826.2	168	8.0
: 700	2334	-29.3	27	146	6.4	: 826.2	-24.2	26	: 804.3	150	9.6
: 500	4698	-40.1	28	297	8.4	: 781.6	-26.4	39	: 684.1	138	5.9
: 400	6194	-47.9	12	245	10.1	: 718.8	-29.2	31	: 643.9	264	5.1
: 300	8048	-58.3	8	308	16.8	: 643.9	-29.5	17	: 619.5	282	6.6
: 250	9184	-61.7	///	///		: 528.9	-38.0	46	: 600.5	247	8.2
: 200	10563	-63.9	281	14.2		: 490.2	-40.5	24	: 577.2	240	7.9
: 150	12315	-67.0	///	///		: 453.0	-44.2	42	: 559.4	251	6.7
: 100	14742					: 449.0	-44.2	33	: 546.3	295	6.2
						: 423.2	-46.2	12	: 542.3	285	6.3
						: 296.0	-59.0	8	: 538.1	253	6.0
						: T 257.6	-61.7	11	: 533.5	249	5.7
						: 111.0	-69.5		: 511.9	298	8.3
									: 498.8	297	8.4
									: 473.4	250	7.5
									: 457.0	244	8.1
									: 434.6	296	10.6
									: 411.7	259	11.3
									: 407.8	239	11.2
									: 395.7	251	9.7
									: 373.1	233	9.9
									: 348.1	272	10.3
									: 328.4	263	12.0
									: 299.0	308	16.8
									: 296.0	///	///
									: 236.4	251	13.4
									: 175.6	309	16.1

ASUKA

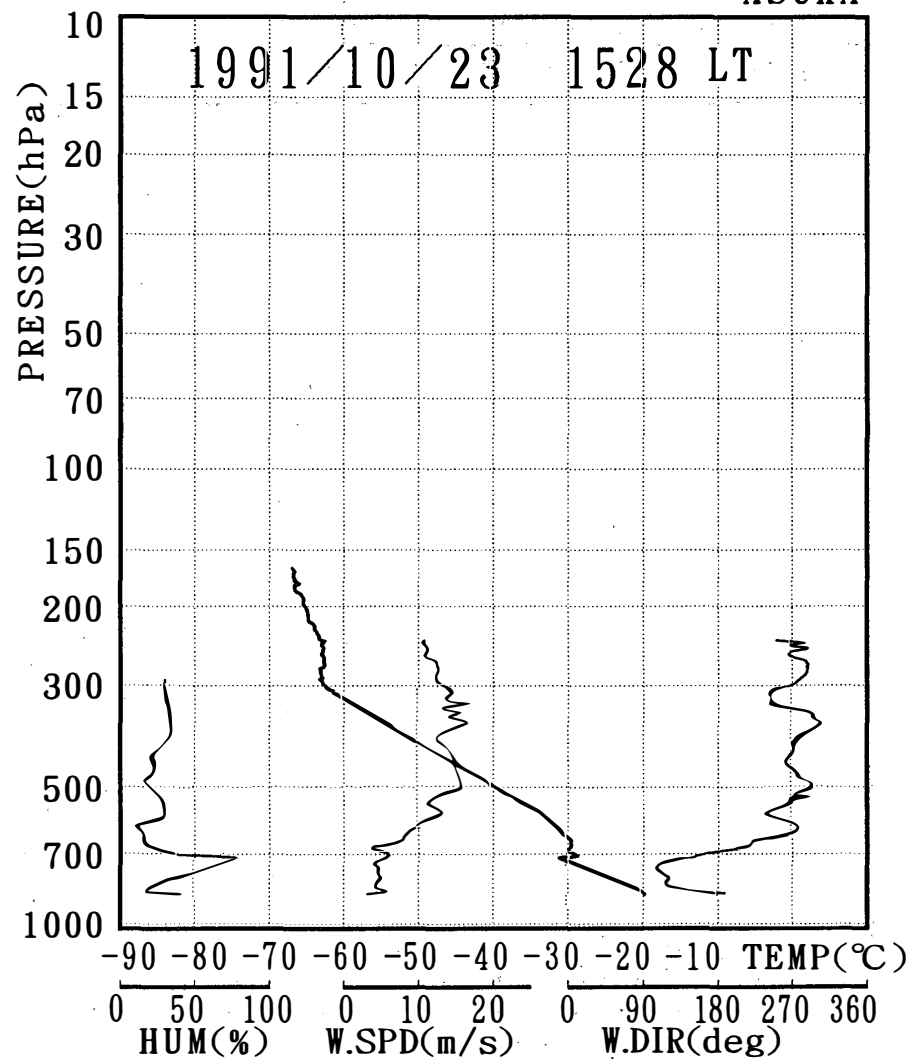


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1991 Oct. 23 15h28m 3 30/50 03

STANDARD LEVELS						TEMP & HUM SIG. L			WIND SIG. L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-246					857.8	-19.7	42	857.8	190	3.2
850	998	-20.1	19	158	5.3	851.6	-20.0	19	845.6	146	5.9
700	2405	-29.1	39	161	5.8	716.4	-30.9	78	740.2	112	4.3
500	4770	-39.6	21	294	16.0	705.8	-28.8	58	685.6	189	4.5
400	6262	-49.8	31	273	13.0	675.0	-29.5	21	665.1	222	6.4
300	8089	-62.4	31	267	13.3	619.1	-30.9	14	655.8	223	7.7
250	9212	-62.9		285	11.4	567.5	-33.7	31	637.3	265	8.4
200	10579	-65.2		///	///	484.8	-40.8	17	609.2	280	10.1
150	12318					407.5	-49.2	29	576.5	240	13.1
						339.2	-56.8	34	544.3	273	11.3
						322.5	-59.6	32	530.9	268	12.2
						T 289.3	-63.3	30	526.4	293	12.4
						192.3	-65.4		521.9	273	12.7
						163.4	-67.1		504.9	296	15.9
									447.0	264	15.1
									387.8	275	12.6
									363.1	307	16.7
									342.8	296	15.8
									329.1	243	17.0
									307.0	245	14.2
									295.2	273	12.9
									268.3	290	12.6
									255.0	265	11.1
									247.8	291	11.4
									243.7	269	10.9
									241.7	287	10.7
									238.1	253	11.0

ASUKA

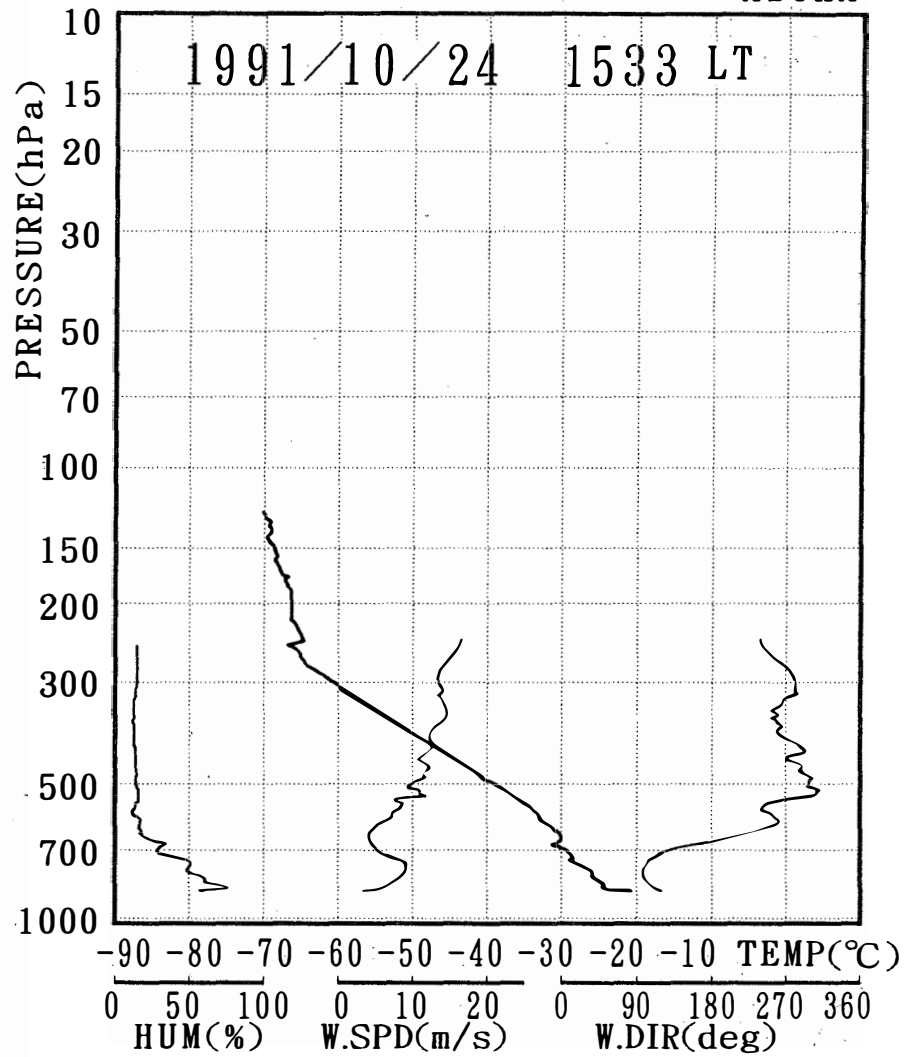


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1991 Oct. 24 15h33m 4 40/30 02

STANDARD LEVELS							TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V	
1000	-171					865.2	-20.7	57	865.2	120	3.3	
850	1060	-24.4	75	112	5.6	858.9	-23.9	72	798.4	98	8.5	
700	2460	-29.4	29	126	5.3	676.3	-31.2	35	735.3	104	8.0	
500	4824	-38.7	14	297	9.7	654.4	-30.1	21	687.4	143	4.9	
400	6324	-48.3	13	274	12.4	560.9	-34.0	14	623.9	244	4.8	
300	8164	-60.4	15	282	13.5	308.3	-59.7	14	593.8	258	7.0	
250	9282	-66.0	15	243	16.1	246.7	-66.8	15	560.9	241	8.4	
200	10636	-66.4	///	///	///	241.3	-64.7		544.5	254	7.9	
150	12369	-68.7	///	///	///	230.1	-65.3		529.7	302	11.8	
100	14776					219.6	-66.0		514.1	311	10.9	
						124.4	-70.3		504.7	296	9.3	
									454.8	292	12.2	
									437.3	270	10.8	
									423.5	295	12.4	
									385.0	260	12.3	
									343.6	252	14.6	
									316.2	285	13.5	
									238.5	239	16.6	

ASUKA

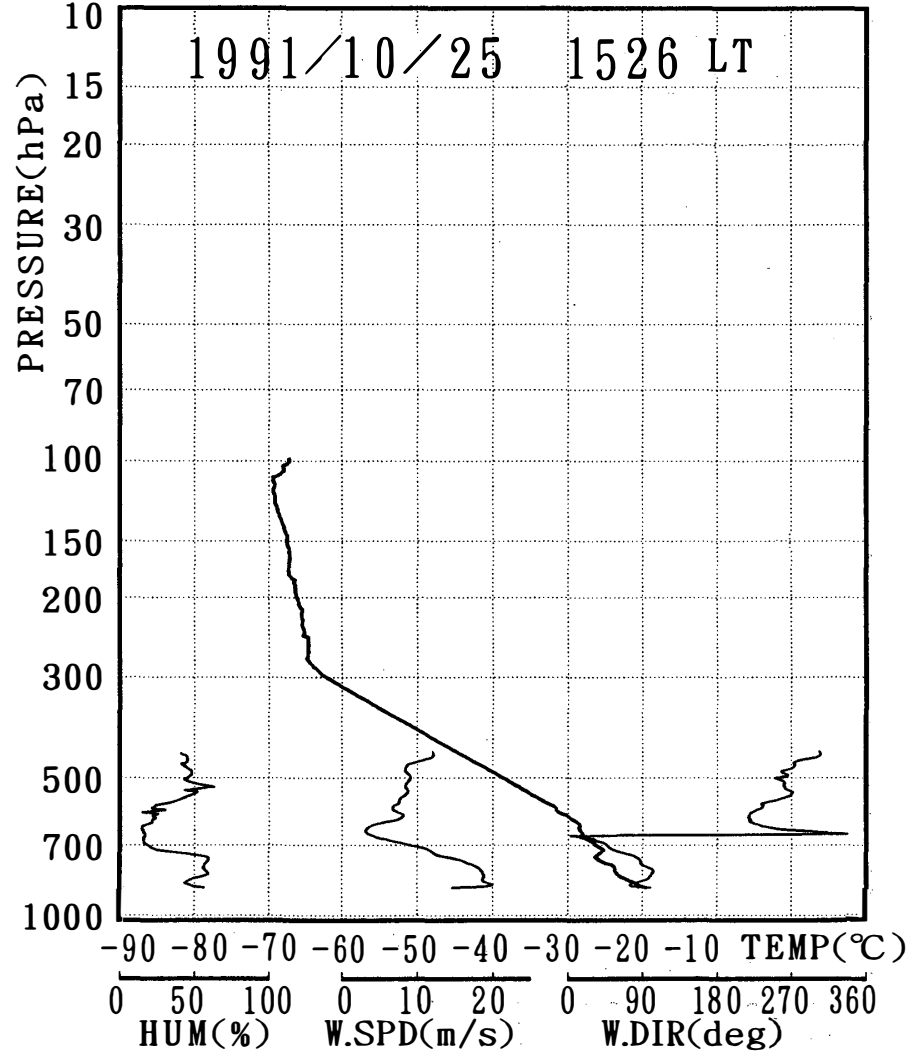


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1991 Oct. 25 15h26m 2 10/31 02

: P	STANDARD LEVELS					TEMP & HUM SIG. L			WIND SIG. L		
	H	T	U	D	V	P	T	U	P	D	V
: 1000	-186					: 864.5	-19.5	56	: 864.5	100	14.5
: 850	1056	-20.7	45	74	19.9	: 741.5	-26.4	58	: 859.1	78	18.9
: 700	2470	-26.2	19	48	10.1	: 716.0	-25.3	25	: 852.0	74	19.9
: 500	4850	-38.5	45	249	9.1	: 671.8	-28.3	16	: 826.0	98	18.6
: 400	6350	-48.8	///	///	///	: 625.9	-28.7	21	: 787.9	102	18.2
: 300	8183	-62.0	///	///	///	: 591.6	-31.3	15	: 690.1	42	8.0
: 250	9299	-64.6	///	///	///	: 521.9	-36.5	63	: 671.8	18	4.8
: 200	10657	-66.1	///	///	///	: 503.3	-38.2	43	: 651.5	282	3.1
: 150	12393	-67.6	///	///	///	: 440.0	-44.5	41	: 620.6	218	5.7
: 100	14822	-67.2	///	///	///	: 417.0	-46.9		: 567.0	232	7.4
:						: 395.3	-49.3		: 544.6	269	8.1
:						: 348.2	-55.2		: 499.5	249	9.1
:						: 304.0	-61.4		: 495.3	266	9.1
:						: T 272.2	-64.8		: 481.2	258	8.4
:						: 110.5	-69.5		: 457.7	276	10.0
:						: 100.0	-67.2		: 444.6	305	12.1
:						: 98.3	-67.3		: 435.3	304	12.0

ASUKA

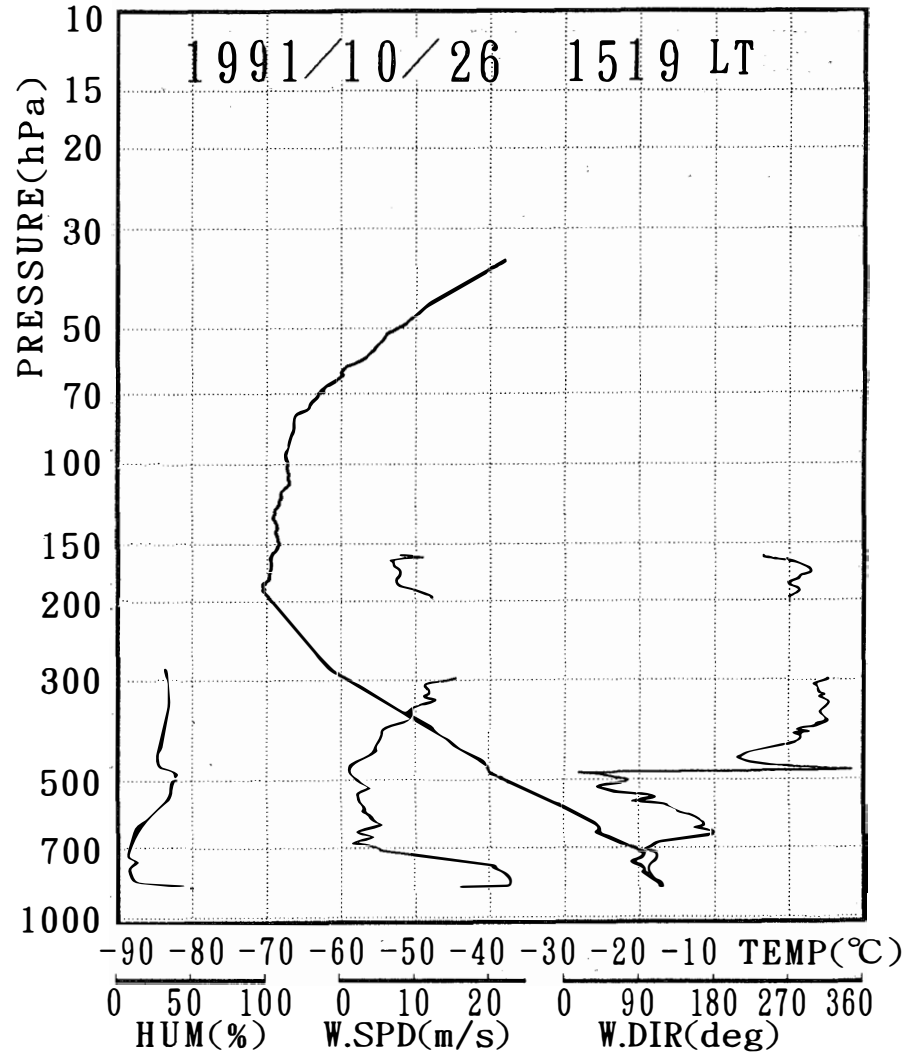


UPPER AIR OBSERVATIONS (ASUKA)

DATE 1991 Oct. 26 TIME 15h19m WEATHER 2 00901 36

STANDARD LEVELS							TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V	
1000	-306					853.9	-17.1	51	853.9	120	16.1	
850	964	-17.1	46	118	22.8	836.1	-17.0	17	836.1	114	22.9	
700	2408	-20.9	10	97	5.0	749.3	-20.9	15	764.1	103	20.6	
500	4814	-37.8	38	76	2.3	717.4	-19.3	9	722.9	112	9.7	
400	6324	-46.3	31	285	5.6	646.9	-25.7	14	696.6	102	4.7	
300	8183	-58.8	34	315	14.3	637.5	-25.2	13	681.7	108	1.6	
250	9310	-64.2	///	///	///	485.4	-39.4	40	637.5	169	3.0	
200	10658	-69.2	///	///	///	443.3	-42.1	27	481.1	16	1.1	
150	12372	-68.3	///	///	///	380.8	-47.8	33	447.3	212	3.3	
100	14807	-67.2	///	///	///	282.5	-61.5	32	426.6	233	4.7	
70	16969	-63.2	///	///	///	269.9	-62.5		399.0	285	5.6	
50	19088	-52.7	///	///	///	254.9	-63.8		391.8	276	5.4	
30	22543					231.4	-66.0		388.3	295	5.5	
						210.1	-68.2		384.6	280	5.5	
						199.4	-69.3		369.9	315	8.9	
						T 189.2	-70.5		334.4	319	12.1	
						100.1	-67.2		305.3	300	11.4	
						77.6	-66.2		295.6	318	15.4	
						51.1	-53.9		292.4	///	///	
						35.2	-37.9		197.2	270	12.3	
									189.2	282	10.1	
									183.8	268	7.5	
									172.2	296	7.9	
									164.5	278	6.9	
									160.1	238	10.9	
									158.6	238	7.8	

ASUKA

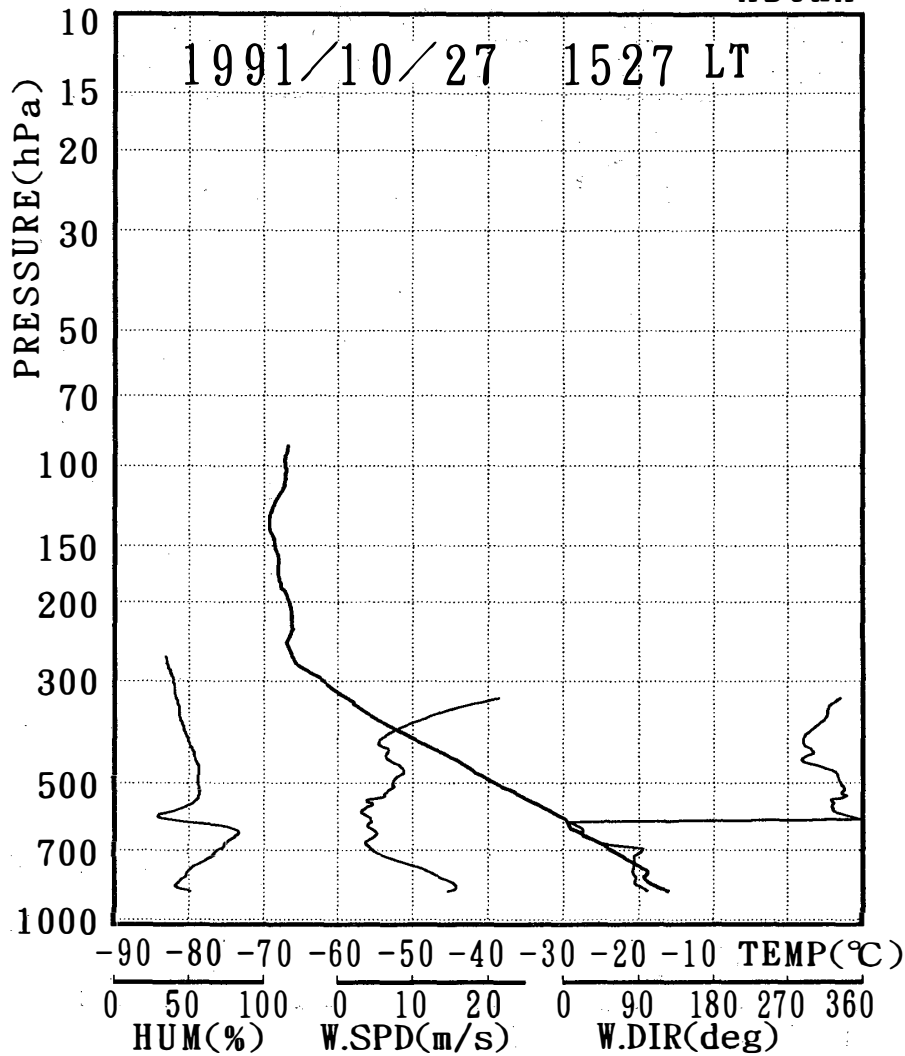


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1991 Oct. 27 15h27m 7 60/32 02

: P	STANDARD LEVELS					: V	TEMP & HUM SIG.L			WIND SIG.L			
	H	T	U	D			P	T	U	P	D	V	
: 1000	-256					:	859.1	-16.0	51	:	859.1	100	14.6
: 850	1010	-16.9	45	96	15.7	:	798.8	-19.4	47	:	824.4	84	15.4
: 700	2449	-23.5	69	93	4.7	:	776.7	-18.9	49	:	706.8	91	5.1
: 500	4835	-39.0	56	334	7.3	:	627.1	-29.1	79	:	643.3	21	5.2
: 400	6332	-49.8	49	289	5.9	:	594.0	-30.0	31	:	578.2	328	3.0
: 300	8158	-61.8	39	///	///	:	508.6	-38.2	57	:	537.2	336	5.6
: 250	9269	-66.7	///	///	///	:	334.8	-58.0	42	:	473.5	328	8.8
: 200	10619	-66.6	///	///	///	:	T 262.8	-66.2	34	:	448.3	289	7.2
: 150	12350	-68.5	///	///	///	:	137.6	-69.3		:	430.5	301	6.5
: 100	14781	-67.1	///	///	///	:	100.3	-67.1		:	410.5	290	5.4
:						:	89.9	-66.8		:	324.6	334	21.5

ASUKA

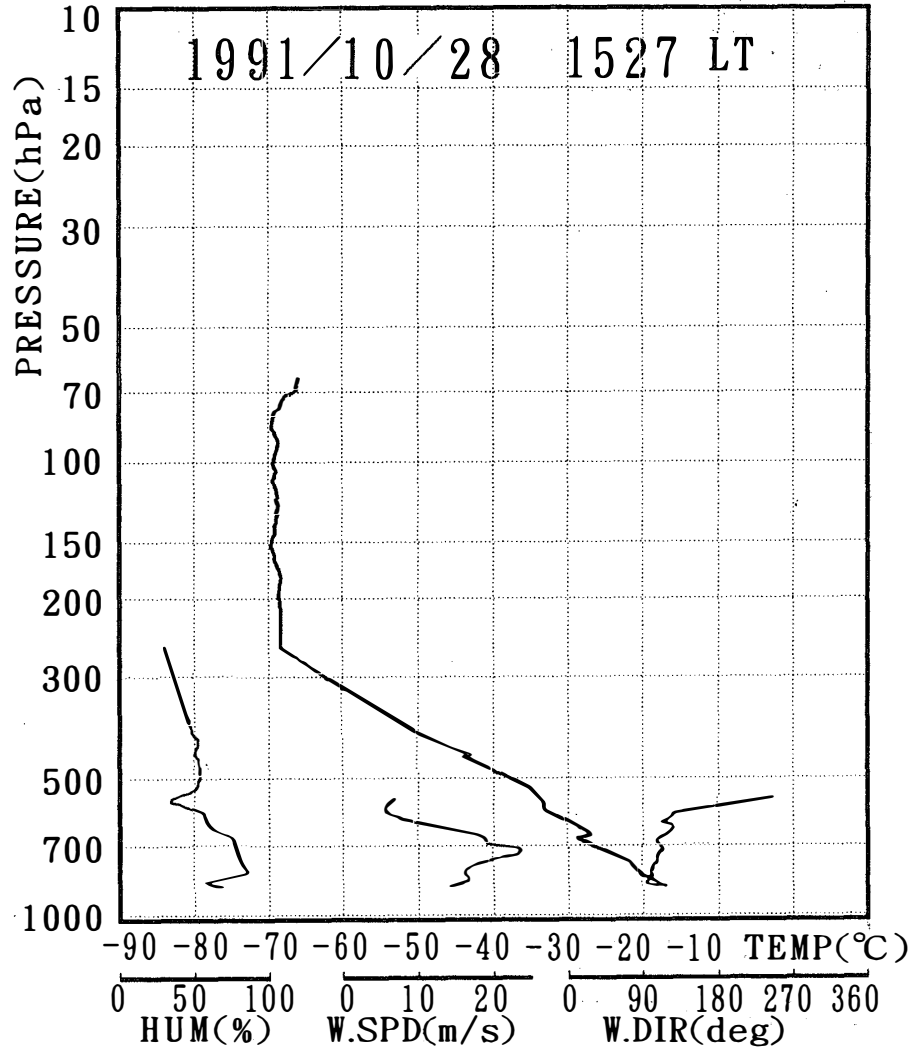


UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1991 Oct. 28 15h27m 9 9//// 75

STANDARD LEVELS						TEMP & HUM SIG.L			WIND SIG.L		
P	H	T	U	D	V	P	T	U	P	D	V
1000	-200					864.6	-16.8	69	864.6	110	14.2
850	1057	-17.8	60	95	15.8	754.6	-22.1	81	850.7	95	15.8
700	2486	-26.8	77	110	20.5	678.9	-28.6	76	718.0	115	23.8
500	4864	-37.7	53	///	///	666.6	-26.9	73	684.9	107	19.0
400	6363	-49.7	49	///	///	590.0	-32.8	54	643.4	127	14.3
300	8191	-62.1	37	///	///	561.3	-33.4	34	625.8	113	10.0
250	9299	-68.4		///	///	526.2	-35.1	50	595.9	133	6.1
200	10636	-68.6		///	///	449.2	-43.8	52	584.0	163	5.8
150	12357	-69.6		///	///	444.1	-42.9	51	556.3	248	7.1
100	14780	-69.4		///	///	399.9	-49.7	49			
70	16913	-67.0		///	///	389.5	-51.0	48			
						374.3	-52.9	46			
						334.0	-57.6	41			
						298.0	-62.4	37			
						279.7	-65.0	34			
						271.5	-66.1	33			
						259.5	-67.9	31			
						T 255.8	-68.4	31			
						227.4	-68.4				
						202.4	-68.5				
						100.1	-69.4				
						64.9	-65.8				

ASUKA





UPPER AIR OBSERVATIONS (ASUKA)

DATE TIME WEATHER  
1991 Oct. 29 15h59m 4 10/31 02

STANDARD LEVELS					TEMP & HUM SIG. L			WIND SIG. L			
P	H	T	U	D	V	P	T	U	P	D	V
: 1000	-306					: 854.1	-14.7	54	: 854.1	120	14.8
: 850	966	-15.1	47	115	15.4	: 825.6	-16.7	28	: 795.3	95	17.2
: 700	2408	-23.7	48	108	14.1	: 764.8	-20.3	61	: 740.0	101	17.5
: 500	4793	-37.9	36	///	///	: 692.1	-24.1	48	: 631.7	115	4.3
: 400	6287	-51.0	26	229	6.8	: 686.1	-23.6	46	: 621.3	125	4.0
: 300	8095	-64.4	31	138	1.9	: 667.4	-24.6	38	: 616.2	///	///
: 250	9205	-65.5		338	8.9	: 572.5	-33.6	62	: 493.3	201	7.3
: 200	10557	-67.4		///	///	: 557.0	-34.4	54	: 440.1	194	9.6
: 150	12281	-68.6		///	///	: 552.2	-34.3	51	: 393.3	239	5.7
						: 497.0	-38.1	35	: 377.7	315	5.5
						: 448.5	-44.1	24	: 339.0	132	0.8
						: 343.0	-59.7	28	: 331.6	21	2.6
						: T 298.1	-64.5	31	: 316.0	82	6.7
						: 138.0	-69.3		: 308.7	165	3.6
									: 267.9	359	6.0
									: 248.5	338	8.9

ASUKA

