A L E R T P E R I O D S
The International Space Environment Service

FEBRUARY 2003

Julian Day	Date of Issue	Date of Obs	Wolf No.	10-cm Solar Flux	A-index	Rgn No.	Location Lat	Location Lon	Flares Opt	Flares M	Flares X	Date of Fcst	Region Fcst(1)	Geoadvice(1)
032	01	31	96	120	13	10266	S21	W95	0	0	0	01	Q	SOL: Eruptive
						10267	S16	W66	0	0	0	01	Q	MAG: Active
						10269	S06	W59	0	0	0	01	Q	PRO: Quiet
						10271	S05	W91	0	0	0	01	Q	
						10272	S05	W44	0	0	0	01	Q	
						10273	N07	W73	0	0	0	01	Q	
						10274	S07	E32	0	0	0	01	Q	
033	02	01	75	126	11	10269	S06	W72	0	0	0	02	Q	SOL: Eruptive
						10272	S05	W57	0	0	0	02	Q	MAG: Active
						10273	N07	W87	0	0	0	02	Q	PRO: Quiet
						10274	S07	E18	0	0	0	02	Q	
						10276	S15	E78	3	1	0	02	E	
034	03	02	61	127	34	10269	S07	W86	0	0	0	03	Q	SOL: Eruptive
						10272	S04	W71	0	0	0	03	Q	MAG: Active
						10274	S06	E05	0	0	0	03	Q	PRO: Quiet
						10276	S14	E66	5	0	0	03	E	
035	04	03	69	133	17	10272	S04	W87	0	0	0	04	Q	SOL: Eruptive
						10274	S05	W09	0	0	0	04	Q	MAG: Active
						10276	S14	E54	0	0	0	04	E	PRO: Quiet
036	05	04	77	135	16	10274	S05	W22	0	0	0	05	Q	SOL: Eruptive
						10276	S13	E40	0	0	0	05	E	MAG: Active
						10277	S20	E66	1	0	0	05	E	PRO: Quiet
						10278	N20	E77	0	0	0	05	Q	
037	06	05	89	140	9	10274	S05	W37	0	0	0	06	E	SOL: Eruptive
						10276	S13	E27	0	0	0	06	E	MAG: Active
						10277	S20	E54	1	0	0	06	E	PRO: Quiet
						10278	N19	E65	2	0	0	06	E	
						10279	S10	E02	0	0	0	06	Q	
038	07	06	135	150	14	10274	S05	W50	0	0	0	07	E	SOL: Eruptive
						10276	S13	E15	1	0	0	07	E	MAG: Active
						10277	S18	E41	5	0	0	07	E	PRO: Quiet
						10278	N18	E53	9	0	0	07	E	
						10279	S13	W12	0	0	0	07	Q	
						10280	S08	E29	2	0	0	07	Q	
						10281	S14	E73	0	0	0	07	Q	
039	08	07	153	147	11	10274	S05	W63	1	0	0	08	Q	SOL: Eruptive
						10276	S13	W01	0	0	0	08	E	MAG: Active
						10277	S19	E25	1	0	0	08	E	PRO: Quiet
						10278	N18	E40	0	0	0	08	E	
						10280	S07	E16	0	0	0	08	Q	
						10281	S14	E60	0	0	0	08	Q	
						10282	N12	E35	0	0	0	08	Q	
						10283	N01	E52	0	0	0	08	Q	
040	09	08	162	139	12	10274	S05	W76	0	0	0	09	Q	SOL: Eruptive
						10276	S13	W14	0	0	0	09	Q	MAG: Quiet
						10277	S21	E17	0	0	0	09	Q	PRO: Quiet
						10278	N18	E26	0	0	0	09	Q	
						10279	S12	W35	0	0	0	09	Q	
						10280	S07	E00	0	0	0	09	Q	
						10281	S13	E46	0	0	0	09	Q	
						10283	N01	E38	0	0	0	09	Q	
						10284	N12	W14	0	0	0	09	Q	
						10285	S10	E75	0	0	0	09	Q	
041	10	09	194	141	14	10274	S05	W86	0	0	0	10	Q	SOL: Eruptive
						10276	S12	W26	1	0	0	10	Q	MAG: Quiet
						10277	S19	E06	0	0	0	10	Q	PRO: Quiet
						10278	N17	E12	0	0	0	10	Q	
						10280	S07	W13	1	0	0	10	Q	

A L E R T P E R I O D S
The International Space Environment Service

FEBRUARY 2003

Julian Day	Date of Issue	Date of Obs	Wolf No.	10-cm Solar Flux	A-index	Rgn No.	Location Lat	Location Lon	Flares Opt	Flares M	Flares X	Date of Fcst	Region Fcst(1)	Geoadvice(1)
						10281	S15	E33	0	0	0	10	Q	
						10282	N11	E08	0	0	0	10	Q	
						10283	N00	E25	0	0	0	10	Q	
						10284	N13	W26	0	0	0	10	Q	
						10285	S11	E65	0	0	0	10	Q	
						10286	S11	W17	0	0	0	10	Q	
042	11	10	163	136	16	10276	S14	W39	0	0	0	11	Q	SOL: Eruptive
						10277	S19	W07	0	0	0	11	Q	MAG: Quiet
						10278	N18	W02	0	0	0	11	Q	PRO: Quiet
						10280	S05	W28	0	0	0	11	Q	
						10281	S14	E20	0	0	0	11	Q	
						10282	N11	W06	0	0	0	11	Q	
						10283	N01	E13	0	0	0	11	Q	
						10284	N14	W41	0	0	0	11	Q	
						10285	S11	E51	0	0	0	11	Q	
						10286	S13	W32	0	0	0	11	Q	
043	12	11	134	135	10	10276	S14	W51	0	0	0	12	Q	SOL: Eruptive
						10277	S18	W21	1	0	0	12	Q	MAG: Quiet
						10278	N18	W16	0	0	0	12	Q	PRO: Quiet
						10280	S06	W42	1	0	0	12	Q	
						10281	S15	E07	0	0	0	12	Q	
						10282	N10	W19	0	0	0	12	Q	
						10283	N00	E00	0	0	0	12	Q	
						10284	N12	W56	0	0	0	12	Q	
						10285	S11	E38	0	0	0	12	Q	
044	13	12	119	132	9	10276	S14	W64	0	0	0	13	Q	SOL: Eruptive
						10277	S18	W34	0	0	0	13	Q	MAG: Quiet
						10278	N18	W29	0	0	0	13	Q	PRO: Quiet
						10280	S06	W55	2	0	0	13	E	
						10281	S15	W06	0	0	0	13	Q	
						10282	N10	W32	3	0	0	13	Q	
						10283	N00	W13	0	0	0	13	Q	
						10285	S11	E25	0	0	0	13	Q	
045	14	13	113	131	7	10276	S14	W77	0	0	0	14	Q	SOL: Eruptive
						10277	S18	W47	0	0	0	14	Q	MAG: Quiet
						10278	N18	W42	0	0	0	14	Q	PRO: Quiet
						10280	S06	W68	1	0	0	14	Q	
						10281	S15	W19	0	0	0	14	Q	
						10282	N10	W45	2	0	0	14	E	
						10283	N00	W26	0	0	0	14	Q	
						10285	S11	E12	0	0	0	14	Q	
046	15	14	113	131	19	10276	S14	W90	0	0	0	15	Q	SOL: Eruptive
						10277	S18	W60	0	0	0	15	Q	MAG: Quiet
						10278	N18	W55	0	0	0	15	Q	PRO: Quiet
						10281	S15	W32	0	0	0	15	Q	
						10282	N10	W58	0	0	0	15	E	
						10283	N00	W39	0	0	0	15	Q	
						10285	S11	W01	0	0	0	15	Q	
						10287	N12	W50	0	0	0	15	Q	
047	16	15	96	124	18	10278	N18	W68	0	0	0	16	Q	SOL: Eruptive
						10281	S15	W45	0	0	0	16	Q	MAG: Active
						10282	N10	W71	0	0	0	16	E	PRO: Quiet
						10283	N00	W52	0	0	0	16	Q	
						10285	S11	W14	0	0	0	16	Q	
						10287	N12	W63	0	0	0	16	Q	
						10288	N12	E72	1	0	0	16	Q	
048	17	16	41	119	13	10282	N11	W82	0	0	0	17	Q	SOL: Eruptive
						10285	S12	W27	0	0	0	17	Q	MAG: Active
						10288	N11	E59	0	0	0	17	Q	PRO: Quiet

A L E R T P E R I O D S
The International Space Environment Service

FEBRUARY 2003

Julian Day	Date of Issue	Date of Obs	Wolf No.	10-cm Solar Flux	A-index	Rgn No.	Location Lat	Location Lon	Flares Opt	Flares M	Flares X	Date of Fcst	Region Fcst(1)	Geoadvice(1)
049	18	17	16	112	12	10288	N12	E44	0	0	0	18	Q	SOL: Eruptive
									0	0	0	18		MAG: Active
									0	0	0	18		PRO: Quiet
050	19	18	51	110	18	10288	N12	E32	0	0	0	19	Q	SOL: Eruptive
						10289	N11	W52	0	0	0	19	Q	MAG: Active
						10290	N17	E46	0	0	0	19	Q	PRO: Quiet
051	20	19	57	116	12	10288	N13	E15	2	0	0	20	Q	SOL: Eruptive
						10289	N09	W66	0	0	0	20	Q	MAG: Active
						10290	N18	E31	5	0	0	20	Q	PRO: Quiet
052	21	20	66	118	17	10288	N13	E01	0	0	0	21	Q	SOL: Eruptive
						10289	N10	W81	0	0	0	21	Q	MAG: Active
						10290	N17	E18	2	0	0	21	E	PRO: Quiet
053	22	21	87	120	13	10288	N13	W10	0	0	0	22	Q	SOL: Eruptive
						10289	N09	W91	0	0	0	22	Q	MAG: Quiet
						10290	N17	E05	3	0	0	22	E	PRO: Quiet
						10291	S23	E03	0	0	0	22	Q	
054	23	22	53	107	12	10288	N14	W27	0	0	0	23	Q	SOL: Eruptive
						10290	N18	W06	5	0	0	23	E	MAG: Active
						10291	S23	W08	0	0	0	23	Q	PRO: Quiet
055	24	23	41	104	10	10288	N14	W40	0	0	0	24	Q	SOL: Eruptive
						10290	N18	W21	0	0	0	24	E	MAG: Quiet
									0	0	0	24		PRO: Quiet
056	25	24	44	102	6	10288	N15	W54	0	0	0	25	Q	SOL: Eruptive
						10290	N18	W33	1	0	0	25	E	MAG: Quiet
									0	0	0	25		PRO: Quiet
057	26	25	48	102	5	10288	N16	W66	0	0	0	26	Q	SOL: Eruptive
						10290	N18	W47	2	0	0	26	Q	MAG: Quiet
						10292	S08	W14	0	0	0	26	Q	PRO: Quiet
058	27	26	45	109	14	10288	N16	W81	0	0	0	27	Q	SOL: Eruptive
						10290	N18	W60	1	0	0	27	Q	MAG: Active
						10292	S08	W28	0	0	0	27	Q	PRO: Quiet
059	28	27	82	118	23	10288	N14	W94	0	0	0	28	Q	SOL: Eruptive
						10290	N18	W75	0	0	0	28	Q	MAG: Active
						10292	S07	W42	0	0	0	28	Q	PRO: Quiet
						10293	S21	E26	0	0	0	28	Q	
						10294	S08	E42	0	0	0	28	Q	
						10295	S19	E65	0	0	0	28	Q	

(1) Region Forecast and Flare (SOL) Advice

- Q = Quiet (<50% probability of C-class flares)
- E = Eruptive (C-class flares expected, probability >=50%)
- A = Active (M-class flares expected, probability >=50%)
- M = Major (X-class flares expected, probability >=50%)
- P = Proton (Proton flares expected, probability >=50%)
- W = Warning (activity levels are expected to increase, but no numerical forecast given)
- / = No forecast available

Magnetic (MAG) Geoadvice

'Quiet'		
'Active'	conditions expected	(A>= 20 or K =4)
'Minor'	storm expected	(A>= 30 or K =5)
'Major'	storm expected	(A>= 50 or K>=6)
'Severe'	storm expected	(A>=100 or K>=7)
'IP'	magstorm in progress	(A>= 30 or K>=4)
'Warning'	(activity levels are expected to increase, but no numerical forecast given)	
'/'	no forecast available	

A L E R T P E R I O D S
The International Space Environment Service

FEBRUARY 2003

Proton (PRO) Geoadvice

'Quiet'		
'Proton'	event expected	(10pfu at > 10 MeV)
'Major'	proton event expected	(100pfu at >100 MeV)
'IP'	proton event in progress	(>10 MeV)
'Warning'	(activity levels are expected to increase, but no numerical forecast given)	
'/'	no forecast available	

STRATWARM ALERTS

STRATALERT BERLIN 01 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
STILL DISTURBED TEMPERATURE DISTRIBUTION IN THE MIDDLE AND UPPER STRATOSPHERE
WITH A REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE AT 2 AND 1 HPA.

STRATALERT BERLIN 02 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
STILL DISTURBED TEMPERATURE DISTRIBUTION IN THE MIDDLE AND UPPER STRATOSPHERE WITH A
REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE FROM 10 HPA UPWARDS.

STRATALERT BERLIN 03 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
STILL DISTURBED TEMPERATURE DISTRIBUTION IN THE MIDDLE AND UPPER STRATOSPHERE,
TEMPERATURE GRADIENT REVERSED FROM 10 TO 1HPA.

STRATALERT BERLIN 04 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
IN THE MIDDLE AND UPPER STRATOSPHERE STILL DISTURBED TEMPERATURE DISTRIBUTION,
TEMPERATURE GRADIENT REVERSED FROM 10 TO 1HPA.

STRATALERT BERLIN 05 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
IN THE MIDDLE AND UPPER STRATOSPHERE STILL DISTURBED TEMPERATURE DISTRIBUTION,
TEMPERATURE GRADIENT REVERSED FROM 20 TO 1 HPA.

STRATALERT BERLIN 06 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
IN THE MIDDLE AND UPPER STRATOSPHERE STILL DISTURBED TEMPERATURE DISTRIBUTION,
TEMPERATURE GRADIENT REVERSED FROM 20 TO 1 HPA.

STRATALERT BERLIN 07 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
IN THE MIDDLE AND UPPER STRATOSPHERE STILL DISTURBED TEMPERATURE DISTRIBUTION.

STRATALERT BERLIN 08 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
IN THE MIDDLE AND UPPER STRATOSPHERE STILL DISTURBED TEMPERATURE DISTRIBUTION.

STRATALERT BERLIN 09 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
IN THE MIDDLE AND UPPER STRATOSPHERE STILL DISTURBED TEMPERATURE DISTRIBUTION.

STRATALERT BERLIN 10 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
IN THE MIDDLE AND UPPER STRATOSPHERE STILL SLIGHTLY DISTURBED TEMPERATURE DISTRIBUTION

STRATALERT BERLIN 11 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
IN THE MIDDLE AND UPPER STRATOSPHERE SLIGHTLY DISTURBED TEMPERATURE DISTRIBUTION.

STRATALERT BERLIN 12 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
IN THE MIDDLE AND UPPER STRATOSPHERE SLIGHTLY DISTURBED TEMPERATURE DISTRIBUTION.

STRATALERT BERLIN 13 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
IN THE MIDDLE AND UPPER STRARTOSPHERE SLIGHTLY DISTURBED TEMPERATURE DISTRIBUTION
WITH A WARM REGION OVER SIBERIA, LEADING TO REVERSED TEMPERATURE GRADIENT BEWEEN
60N AND THE POLE FROM 5 TO 1 HPA.

STRATALERT BERLIN 14 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
IN THE MIDDLE AND UPPER STRATOSPHERE STILL SLIGHTLY DISTURBED TEMPERATURE DISTRIBUTION.

STRATALERT BERLIN 15 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
NEW WARM PULS DEVELOPING OVER SIBERIA IN THE MIDDLE AND UPPER STRATOSPHERE LEADING TO A
REVERSED TEMPERATURE GRADIENT FROM 10 HPA UP TO 1 HPA.

TRATALERT BERLIN 16 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
STRONG WAVE TWO CIRCULATION PATTERN THROUGHOUT THE STRATOSPHERE WITH A REVERSED
TEMPERATURE GRADIENT FROM 30 HPA UP TO 1 HPA AND EASTERLY ZONAL MEAN WINDS

A L E R T P E R I O D S
The International Space Environment Service

FEBRUARY 2003

AT 1 AND 2 HPA.

STRATALERT BERLIN 17 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
WAVE TWO CIRCULATION PATTERN THROUGHOUT THE STRATOSPHERE WITH A REVERSED TEMPERATURE GRADIENT THROUGHOUT THE STRATOSPHERE AND EASTERLY ZONAL MEAN WINDS AT 1 AND 2 HPA.

STRATALERT BERLIN 18 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
THERE IS A STRONG WAVE TWO FORMATION IN THE MIDDLE ATMOSPHERE WITH A CONTINUING REVERSED TEMPERATURE GRADIENT ON ALL LEVELS AND EASTERLY ZONAL MEAN WINDS ON 3HPA AND ABOVE.

STRATALERT BERLIN 19 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
THE WAVE TWO PATTERN PERSISTS WITH A CONTINUING REVERSED TEMPERATURE GRADIENT ON ALL LEVELS AND EASTERLY WINDS ON 3 AND 5HPA.

STRATALERT BERLIN 20 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
THE WAVE TWO FORMATION IS STILL EVIDENT. THERE IS A REVERSED TEMPERATURE GRADIENT THROUGHOUT THE STRATOSPHERE AND EASTERLY WINDS ON 3HPA AND 1HPA AT 60N.

STRATALERT BERLIN 21 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
THE WAVE TWO FORMATION IS STILL EVIDENT. THERE IS A REVERSED TEMPERATURE GRADIENT THROUGHOUT THE STRATOSPHERE AND EASTERLY WINDS AT 1 HPA AT 60N.

STRATALERT BERLIN 22 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
THE WAVE TWO FORMATION IS STILL EVIDENT. THERE IS A REVERSED TEMPERATURE GRADIENT BETWEEN 50 AND 10 HPA AS WELL AS AT 1HPA.

STRATALERT BERLIN 23 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
THE WAVE TWO FORMATION IS STILL EVIDENT. THERE IS A REVERSED TEMPERATURE GRADIENT BETWEEN 50 AND 10 HPA.

STRATALERT BERLIN 24 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
IN THE LOWER AND MIDDLE STRATOSPHERE THE WAVE TWO FORMATION IS STILL EVIDENT. A WEAKLY REVERSED TEMPERATURE GRADIENT EXISTS FROM 10 TO 1 HPA.

STRATALERT BERLIN 25 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
FURTHER DISTURBED TEMPERATURE DISTRIBUTION OVER HIGH LATITUDES IN THE MIDDLE AND UPPER STRATOSPHERE.

STRATALERT BERLIN 26 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
FURTHER DISTURBED STRATOSPHERE FROM 10 TO 3 HPA. TEMPERATURES COLD ENOUGH FOR PSC FORMATION OVER THE EUROPEAN ARCTIC WTHIN 3 DAYS.

STRATALERT BERLIN 27 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
DISTURBED TEMPERATURE DISTRIBUTION FROM 10 HPA UPWARDS, EXCEPT AT 20 HPA. TEMPERATURES COLD ENOUGH FOR PSC FORMATION EXIST OVER THE EUROPEAN ARCTIC.

STRATALERT BERLIN 28 FEBRUARY 2003 1400 UTC STRATALERT EXISTS.
DISTURBED TEMPERATURE PATTERN FROM 10 HPA UPWARDS. TEMPERATURES LOW ENOUGH FOR PSC FORMATION PERSISTS OVER THE NORWEGIAN SEA.