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

JANUARY 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)
001	01	31	50	115	6	10234	N20	W21	0	0	0	01	Q	SOL: Quiet
						10239	S10	E10	0	0	0	01	Q	MAG: Quiet
						10240	S06	E20	0	0	0	01	Q	PRO: Quiet
002	02	01	47	115	8	10234	N19	W33	0	0	0	02	Q	SOL: Quiet
						10239	S09	W04	0	0	0	02	Q	MAG: Quiet
						10240	S08	E06	0	0	0	02	Q	PRO: Quiet
003	03	02	74	118	8	10234	N19	W47	0	0	0	03	Q	SOL: Quiet
						10239	S09	W17	0	0	0	03	Q	MAG: Quiet
						10240	S08	W04	0	0	0	03	Q	PRO: Quiet
						10241	S25	W40	0	0	0	03	Q	
						10242	S08	E61	1	0	0	03	Q	
004	04	03	108	138	15	10234	N19	W60	2	0	0	04	Q	SOL: Eruptive
						10239	S09	W30	0	0	0	04	Q	MAG: Active
						10241	S24	W53	0	0	0	04	Q	PRO: Quiet
						10242	S08	E48	4	0	0	04	E	
						10243	S19	W34	1	0	0	04	Q	
						10244	S15	E58	1	0	0	04	Q	
						10245	N12	E74	0	0	0	04	Q	
005	05	04	117	143	12	10239	S09	W43	0	0	0	05	Q	SOL: Eruptive
						10240	S08	W38	0	0	0	05	Q	MAG: Active
						10241	S24	W66	0	0	0	05	Q	PRO: Quiet
						10242	S08	E33	0	0	0	05	E	
						10243	S19	W47	8	0	0	05	E	
						10244	S23	E40	4	0	0	05	E	
						10245	N11	E59	0	0	0	05	Q	
006	06	05	128	148	6	10239	S07	W54	0	0	0	06	Q	SOL: Eruptive
						10240	S08	W53	0	0	0	06	Q	MAG: Quiet
						10242	S08	E20	4	0	0	06	E	PRO: Quiet
						10243	S19	W60	2	0	0	06	E	
						10244	S23	E27	1	0	0	06	E	
						10245	N11	E46	0	0	0	06	Q	
007	07	06	141	162	6	10239	S07	W67	1	0	0	07	Q	SOL: Eruptive
						10240	S08	W65	0	0	0	07	Q	MAG: Quiet
						10242	S08	E03	0	0	0	07	E	PRO: Quiet
						10243	S19	W73	0	0	0	07	E	
						10244	S23	E14	1	0	0	07	E	
						10245	N11	E33	0	0	0	07	Q	
						10246	N08	E10	0	0	0	07	Q	
						10247	S17	E73	0	0	0	07	Q	
008	08	07	199	163	8	10239	S08	W82	0	0	0	08	Q	SOL: Eruptive
						10240	S04	W78	0	0	0	08	Q	MAG: Quiet
						10242	S06	W09	4	0	0	08	E	PRO: Quiet
						10243	S18	W88	0	0	0	08	Q	
						10244	S23	W01	3	1	0	08	E	
						10245	N12	E21	0	0	0	08	Q	
						10246	N09	W02	0	0	0	08	Q	
						10247	S18	E59	0	0	0	08	Q	
						10248	S11	W41	0	0	0	08	Q	
						10249	S16	E18	0	0	0	08	Q	
						10250	S27	E79	0	0	0	08	Q	
						10251	S14	E81	1	1	0	08	Q	
009	09	08	198	174	6	10242	S08	W22	4	0	0	09	A	SOL: Eruptive
						10244	S22	W16	2	0	0	09	A	MAG: Quiet
						10245	N11	E07	1	0	0	09	A	PRO: Quiet
						10247	S18	E47	4	0	0	09	A	
						10248	S12	W55	0	0	0	09	A	
						10249	S16	E05	0	0	0	09	A	
						10250	S28	E66	0	0	0	09	A	
						10251	S14	E70	2	0	0	09	A	

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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)
010	10	09	206	183	5	10242	S08	W34	5	0	0	10	A	SOL: Eruptive
						10244	S22	W31	1	0	0	10	A	MAG: Quiet
						10245	N12	W05	0	0	0	10	A	PRO: Quiet
						10247	S17	E34	4	0	0	10	A	
						10248	S10	W69	0	0	0	10	A	
						10249	S15	W08	0	0	0	10	A	
						10250	S27	E53	0	0	0	10	A	
						10251	S13	E58	11	1	0	10	A	
						10252	S04	E61	0	0	0	10	A	
011	11	10	199	185	12	10242	S08	W48	2	0	0	11	A	SOL: Eruptive
						10244	S22	W44	0	0	0	11	A	MAG: Quiet
						10245	N12	W20	0	0	0	11	A	PRO: Quiet
						10247	S15	E20	0	0	0	11	A	
						10249	S15	W21	0	0	0	11	A	
						10250	S26	E37	0	0	0	11	A	
						10251	S13	E44	0	0	0	11	A	
						10252	S03	E46	0	0	0	11	A	
						10253	N11	W36	0	0	0	11	A	
						10254	S15	E72	0	0	0	11	A	
012	12	11	238	189	9	10242	S07	W61	5	0	0	12	E	SOL: Eruptive
						10244	S22	W56	4	0	0	12	Q	MAG: Quiet
						10247	S17	E07	1	0	0	12	E	PRO: Quiet
						10249	S15	W34	0	0	0	12	Q	
						10250	S27	E27	0	0	0	12	Q	
						10251	S14	E32	1	0	0	12	E	
						10252	S03	E33	0	0	0	12	Q	
						10253	N09	W48	0	0	0	12	Q	
						10254	S16	E63	0	0	0	12	Q	
013	13	12	232	173	10	10242	S07	W75	0	0	0	13	E	SOL: Eruptive
						10244	S22	W71	0	0	0	13	Q	MAG: Quiet
						10247	S16	W07	1	0	0	13	E	PRO: Quiet
						10249	S15	W47	0	0	0	13	Q	
						10250	S27	E13	0	0	0	13	Q	
						10251	S14	E21	0	0	0	13	E	
						10252	S03	E18	0	0	0	13	Q	
						10253	N09	W61	0	0	0	13	Q	
						10254	S16	E44	1	0	0	13	Q	
						10255	S13	E14	0	0	0	13	Q	
						10256	S17	E55	0	0	0	13	Q	
014	14	13	182	172	8	10242	S07	W87	1	0	0	14	Q	SOL: Eruptive
						10247	S16	W21	0	0	0	14	Q	MAG: Quiet
						10249	S15	W62	0	0	0	14	Q	PRO: Quiet
						10250	S26	E00	1	0	0	14	Q	
						10251	S14	E09	0	0	0	14	Q	
						10253	N09	W73	0	0	0	14	Q	
						10254	S14	E29	1	0	0	14	Q	
						10255	S13	E01	1	0	0	14	Q	
						10256	S17	E41	0	0	0	14	Q	
						10257	N16	E23	0	0	0	14	Q	
015	15	14	176	164	9	10247	S17	W33	0	0	0	15	Q	SOL: Eruptive
						10249	S15	W76	0	0	0	15	Q	MAG: Quiet
						10250	S26	W12	0	0	0	15	Q	PRO: Quiet
						10251	S14	W05	0	0	0	15	Q	
						10254	S14	E17	0	0	0	15	Q	
						10255	S13	W12	0	0	0	15	Q	
						10256	S16	E28	0	0	0	15	Q	
						10257	N16	E09	0	0	0	15	Q	
						10258	N07	E56	0	0	0	15	Q	
						10259	N13	E72	0	0	0	15	Q	
016	16	15	173	150	6	10247	S16	W46	0	0	0	16	Q	SOL: Eruptive

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						10249	S14	W85	0	0	0	16	Q	MAG: Quiet
						10250	S24	W24	1	0	0	16	Q	PRO: Quiet
						10251	S15	W14	0	0	0	16	Q	
						10254	S15	E04	0	0	0	16	Q	
						10255	S13	W23	0	0	0	16	Q	
						10256	S17	E16	0	0	0	16	Q	
						10257	N16	W03	0	0	0	16	Q	
						10258	N07	E44	0	0	0	16	Q	
						10259	N11	E58	0	0	0	16	Q	
						10260	N14	E77	0	0	0	16	Q	
017	17	16	135	145	5	10247	S15	W64	0	0	0	17	Q	SOL: Eruptive
						10250	S27	W36	0	0	0	17	Q	MAG: Quiet
						10251	S15	W28	0	0	0	17	Q	PRO: Quiet
						10254	S14	W11	0	0	0	17	Q	
						10255	S13	W39	1	0	0	17	Q	
						10256	S16	E03	0	0	0	17	Q	
						10257	N15	W19	0	0	0	17	Q	
						10258	N08	E27	1	0	0	17	Q	
						10259	N10	E41	0	0	0	17	Q	
						10260	N14	E65	0	0	0	17	Q	
018	18	17	150	142	9	10247	S13	W76	0	0	0	18	Q	SOL: Eruptive
						10250	S26	W50	0	0	0	18	Q	MAG: Quiet
						10251	S16	W41	0	0	0	18	Q	PRO: Quiet
						10254	S14	W24	0	0	0	18	Q	
						10255	S12	W53	0	0	0	18	E	
						10256	S16	W12	0	0	0	18	Q	
						10257	N16	W36	0	0	0	18	Q	
						10258	N07	E12	0	0	0	18	Q	
						10259	N09	E26	1	0	0	18	E	
						10260	N14	E53	0	0	0	18	Q	
019	19	18	148	137	13	10247	S14	W88	0	0	0	19	Q	SOL: Eruptive
						10250	S27	W63	0	0	0	19	Q	MAG: Quiet
						10251	S13	W55	0	0	0	19	Q	PRO: Quiet
						10254	S14	W37	0	0	0	19	Q	
						10255	S13	W67	0	0	0	19	Q	
						10256	S16	W25	0	0	0	19	Q	
						10257	N16	W48	0	0	0	19	Q	
						10258	N07	W01	0	0	0	19	Q	
						10259	N10	E12	0	0	0	19	Q	
						10260	N14	E40	0	0	0	19	Q	
020	20	19	168	130	17	10250	S27	W77	0	0	0	20	Q	SOL: Eruptive
						10254	S14	W51	0	0	0	20	Q	MAG: Active
						10255	S13	W81	0	0	0	20	Q	PRO: Quiet
						10256	S16	W39	0	0	0	20	Q	
						10257	N16	W62	0	0	0	20	Q	
						10258	N07	W15	0	0	0	20	Q	
						10259	N10	W02	0	0	0	20	Q	
						10260	N14	E26	1	0	0	20	Q	
						10261	N26	W47	0	0	0	20	Q	
						10262	S05	W45	0	0	0	20	Q	
						10263	S13	W11	0	0	0	20	Q	
021	21	20	184	138	16	10250	S26	W90	0	0	0	21	Q	SOL: Eruptive
						10254	S14	W64	0	0	0	21	Q	MAG: Active
						10255	S13	W94	0	0	0	21	Q	PRO: Quiet
						10257	N16	W75	0	0	0	21	Q	
						10258	N07	W28	0	0	0	21	Q	
						10259	N10	W15	0	0	0	21	Q	
						10260	N14	E13	1	0	0	21	E	
						10261	N26	W60	0	0	0	21	Q	
						10262	S05	W60	0	0	0	21	Q	
						10263	S13	W24	0	0	0	21	Q	
						10264	S20	W02	0	0	0	21	Q	

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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)
						10265	N04	E31	0	0	0	21	Q	
						10266	S23	E56	2	0	0	21	Q	
						10267	S20	E77	1	0	0	21	Q	
022	22	21	167	134	17	10254	S14	W77	0	0	0	22	Q	SOL: Eruptive
						10257	N16	W88	0	0	0	22	Q	MAG: Quiet
						10258	N07	W41	0	0	0	22	Q	PRO: Quiet
						10259	N10	W28	0	0	0	22	Q	
						10260	N14	W00	3	0	0	22	E	
						10261	N26	W73	0	0	0	22	Q	
						10262	S05	W73	0	0	0	22	Q	
						10263	S13	W40	2	0	0	22	Q	
						10266	S23	E43	0	0	0	22	Q	
						10267	S20	E64	0	0	0	22	Q	
						10268	N12	E23	0	0	0	22	Q	
						10269	S09	E76	0	0	0	22	Q	
023	23	22	152	130	18	10254	S14	W90	0	0	0	23	Q	SOL: Eruptive
						10258	N07	W54	0	0	0	23	Q	MAG: Minor
						10259	N10	W34	0	0	0	23	Q	PRO: Quiet
						10260	N14	W13	1	1	0	23	Q	
						10263	S13	W53	2	0	0	23	Q	
						10266	S23	E30	1	0	0	23	Q	
						10267	S20	E51	0	0	0	23	Q	
						10268	N12	E10	0	0	0	23	Q	
						10269	S09	E63	0	0	0	23	E	
024	24	23	123	136	18	10258	N08	W68	0	0	0	24	Q	SOL: Eruptive
						10260	N16	W26	0	0	0	24	Q	MAG: Active
						10263	S11	W68	7	0	0	24	Q	PRO: Quiet
						10266	S22	E13	4	1	0	24	Q	
						10267	S20	E43	0	0	0	24	Q	
						10268	N13	W03	0	0	0	24	Q	
						10269	S08	E52	0	0	0	24	Q	
025	25	24	129	130	15	10258	N08	W82	0	0	0	25	Q	SOL: Eruptive
						10260	N16	W40	0	0	0	25	Q	MAG: Active
						10263	S11	W82	0	0	0	25	Q	PRO: Quiet
						10266	S19	E01	5	1	0	25	E	
						10267	S19	E31	0	0	0	25	Q	
						10268	N14	W17	0	0	0	25	Q	
						10269	S07	E39	0	0	0	25	Q	
026	26	25	103	129	26	10260	N15	W54	0	0	0	26	Q	SOL: Eruptive
						10266	S21	W10	0	0	0	26	E	MAG: Active
						10267	S20	E16	0	0	0	26	Q	PRO: Quiet
						10268	N14	W29	1	0	0	26	Q	
						10269	S08	E25	0	0	0	26	Q	
027	27	26	133	125	17	10260	N15	W67	0	0	0	27	Q	SOL: Eruptive
						10266	S22	W26	0	0	0	27	E	MAG: Active
						10267	S20	E03	0	0	0	27	Q	PRO: Quiet
						10268	N15	W42	1	0	0	27	Q	
						10269	S07	E12	0	0	0	27	Q	
						10270	S04	W36	0	0	0	27	Q	
						10271	S06	W21	0	0	0	27	Q	
						10272	S05	E26	0	0	0	27	Q	
028	28	27	134	121	10	10266	S21	W40	1	0	0	28	Q	SOL: Eruptive
						10267	S19	W13	0	0	0	28	Q	MAG: Quiet
						10268	N16	W56	0	0	0	28	Q	PRO: Quiet
						10269	S07	W02	0	0	0	28	Q	
						10270	S03	W50	0	0	0	28	Q	
						10271	S05	W35	0	0	0	28	Q	
						10272	S08	E11	0	0	0	28	Q	
						10273	N06	W18	1	0	0	28	Q	

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029	29	28	133	126	12	10266	S20	W55	0	0	0	29	Q	SOL: Eruptive
						10267	S19	W28	0	0	0	29	Q	MAG: Quiet
						10268	N16	W72	0	0	0	29	Q	PRO: Quiet
						10269	S08	W16	0	0	0	29	Q	
						10270	S03	W65	0	0	0	29	Q	
						10271	S06	W49	0	0	0	29	Q	
						10272	S06	W02	0	0	0	29	Q	
						10273	N06	W33	0	0	0	29	Q	
						10274	S06	E71	0	0	0	29	Q	
030	30	29	173	124	12	10266	S21	W68	1	0	0	30	Q	SOL: Eruptive
						10267	S19	W37	0	0	0	30	Q	MAG: Quiet
						10268	N15	W84	0	0	0	30	Q	PRO: Quiet
						10269	S07	W29	0	0	0	30	Q	
						10270	S04	W79	0	0	0	30	Q	
						10271	S06	W62	0	0	0	30	Q	
						10272	S06	W15	0	0	0	30	Q	
						10273	N06	W45	0	0	0	30	Q	
						10274	S07	E57	0	0	0	30	Q	
						10275	S11	W08	0	0	0	30	Q	
031	31	30	105	121	23	10266	S21	W83	0	0	0	31	Q	SOL: Eruptive
						10267	S17	W52	0	0	0	31	Q	MAG: Active
						10269	S07	W45	0	0	0	31	Q	PRO: Quiet
						10271	S06	W78	0	0	0	31	Q	
						10272	S06	W32	0	0	0	31	Q	
						10273	N06	W59	0	0	0	31	Q	
						10274	S07	E45	1	0	0	31	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	

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 JANUARY 2003 1400 UTC STRATALERT EXISTS.
STRONG WARMING CONTINUES IN THE MIDDLE AND UPPER STRATOSPHERE, ALTHOUGH WEAKENING.
TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE REVERSED DOWN TO ALMOST 20 HPA AND
NET EASTERLY WINDS AT 60N AT 1 HPA.

STRATALERT BERLIN 02 JANUARY 2003 1400 UTC STRATALERT EXISTS.
UPPER STRATOSPHERIC WARMING WEAKENS. TEMPERATURE GRADIENT BETWEEN 60N AND THE
POLE REVERSED DOWN TO 20HPA. NO MORE EASTERLIES AT 60N.

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STRATALERT BERLIN 03 JANUARY 2003 1400 UTC STRATALERT EXISTS.
UPPER STRATOSPHERIC WARMING CONTINUES, SLOWLY WEAKENING; TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE STILL REVERSED BETWEEN 10 AND 1HPA.

STRATALERT BERLIN 04 JANUARY 2003 1400 UTC STRATALERT EXISTS.
UPPER STRATOSPHERIC WARMING CONTINUES, SHORTLY INTENSIFYING; TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE STILL REVERSED BETWEEN 10 AND 1HPA.

STRATALERT BERLIN 05 JANUARY 2003 1400 UTC STRATALERT EXISTS.
UPPER STRATOSPHERIC WARMING CONTINUES, SLOWLY WEAKENING; TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE REVERSED BETWEEN 10 AND 1HPA; EASTERLY WINDS AT 60N, 1HPA.

STRATALERT BERLIN 06 JANUARY 2003 1400 UTC STRATALERT EXISTS.
UPPER STRATOSPHERE WARMING CONTINUES, WEAKENING. TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE REVERSED FROM 10 TO 1 HPA.

STRATALERT BERLIN 07 JANUARY 2003 1400 UTC STRATALERT EXISTS.
UPPER STRATOSPHERE WARMING PERSISTS, WEAKENING. TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE REVERSED FROM 10 TO 5 HPA AND AROUND 1 HPA.

STRATALERT BERLIN 08 JANUARY 2003 1400 UTC STRATALERT EXISTS.
UPPER STRATOSPHERE WARMING PERSISTS, BUT FURTHER WEAKENING. TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE REVERSED AT 1 HPA.

STRATALERT BERLIN 09 JANUARY 2003 1400 UTC STRATALERT EXISTS.
UPPER STRATOSPHERE WARMING PERSISTS, BUT WEAKENING. REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE AT 2 AND 1 HPA.

STRATALERT BERLIN 10 JANUARY 2003 1400 UTC STRATALERT EXISTS.
MINOR WARMING CONTINUES WITH REVERSED TEMPERATURE GRADIENT FROM 5 TO 1HPA.

STRATALERT BERLIN 11 JANUARY 2003 1400 UTC STRATALERT EXISTS.
MINOR WARMING CONTINUES WITH REVERSED TEMPERATURE GRADIENT ON 5HPA AND ABOVE.

STRATALERT BERLIN 12 JANUARY 2003 1400 UTC STRATALERT EXISTS.
MINOR WARMING CONTINUES WITH REVERSED TEMPERATURE GRADIENT ON 1HPA.

STRATALERT BERLIN 13 JANUARY 2003 1400 UTC STRATALERT EXISTS.
NORMAL CONDITIONS IN THE LOWER STRATOSPHERE, WHILE A NEW WARM PULS DEVELOPS IN THE UPPER STRATOSPHERE.

STRATALERT BERLIN 14 JANUARY 2003 1400 UTC STRATALERT EXISTS.
INTENSE WARMING DEVELOPS IN THE UPPER STRATOSPHERE.

STRATALERT BERLIN 15 JANUARY 2003 1400 UTC STRATALERT EXISTS.
INTENSE WARMING IN THE UPPER STRATOSPHERE, REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE AT 2 AND 1 HPA.

STRATALERT BERLIN 16 JANUARY 2003 1400 UTC STRATALERT EXISTS.
INTENSE WARMING OVER SIBERIA, REVERSESED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE FROM 10 HPA UPWARDS.

STRATALERT BERLIN 17 JANUARY 2003 1400 UTC STRATALERT EXISTS.
STRONG WARMING CONTINUES OVER SIBERIAN ARCTIC AND NORTHERN EUROPE. THE FORECAST INDICATES THE SPLITTING OF THE POLAR VORTEX INTO TWO CENTRES THROUGHOUT THE STRATOSPHERE, TOGETHER WITH EASTERLY WINDS AT 60N FROM 1 TO 10 HPA, JUST WITHIN THE NEXT TWO DAYS.

STRATALERT BERLIN 18 JANUARY 2003 1400 UTC STRATALERT EXISTS.
STRONG WARMING CONTINUES OVER THE POLAR REGION AND NORTHERN EUROPE, LEADING TO A REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE THROUGHOUT THE STRATOSPHERE, TOGETHER WITH EASTERLY WINDS AT 60N FROM 5 TO 1 HPA., JUST WITHIN THE NEXT DAY.

STRATALERT BERLIN 19 JANUARY 2003 1400 UTC STRATALERT EXISTS.
WARMING CONTINUES OVER THE POLAR REGION, BUT CONSIDERABLE WEAKENING. REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE UP TO 2 HPA AND EASTERLY WINDS

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The International Space Environment Service

JANUARY 2003

AT 60N FROM 10 TO 1 HPA.

STRATALERT BERLIN 20 JANUARY 2003 1400 UTC STRATALERT EXISTS.
WARMING CONTINUES OVER THE POLAR REGION, FURTHER WEAKENING. REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE FROM 50 TO 5 HPA. EASTERLY ZONAL MEAN ZONAL WIND AT 60N BETWEEN 5 AND 2 HPA.

STRATALERT BERLIN 21 JANUARY 2003 1400 UTC STRATALERT EXISTS.
DECAYING WARMING, BUT STILL DISTURBED POLAR VORTEX THROUGHOUT THE STRATOSPHERE. REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE FROM 50 TO 10 HPA.

STRATALERT BERLIN 22 JANUARY 2003 1400 UTC STRATALERT EXISTS.
WARMING CONTINUES AND STILL DISTURBED POLAR VORTEX THROUGHOUT THE STRATOSPHERE. REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE FROM 20 HPA TO 2 HPA.

STRATALERT BERLIN 23 JANUARY 2003 1400 UTC STRATALERT EXISTS.
STILL DISTURBED POLAR VORTEX THROUGHOUT THE STRATOSPHERE. WEAK REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE FROM 10 TO 3 HPA AND AT HPA.

STRATALERT BERLIN 24 JANUARY 2003 1400 UTC STRATALERT EXISTS.
STILL DISTURBED STRATOSPHERE. WEAK REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE REMAINS AT 5 HPA.

STRATALERT BERLIN 25 JANUARY 2003 1400 UTC STRATALERT EXISTS.
DISTURBED WAVE NUMBER TWO CIRCULATION PATTERN AND TEMPERATURE DISTRIBUTION WITH A REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE FROM 5 HPA UPWARDS.

STRATALERT BERLIN 26 JANUARY 2003 1400 UTC STRATALERT EXISTS.
DISTURBED WAVE NUMBER TWO PATTERN OF THE CIRCULATIOM AND OF THE TEMPERTURE DISTRIBUTION. WARM AIR COVERS THE POLAR REGION IN THE MIDDLE STRATOSPHERE, LEADING TO A REVERSD TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE FROM 20HPA UPWARDS.

STRATALERT BERLIN 27 JANUARY 2003 1400 UTC STRATALERT EXISTS.
DISTURBED WAVE NUMBER TOW PATTERN OF THE CIRCULATION AND OF THE TEMPERATURE DISTRIBUTION. WARM AIR COVERS THE POLAR REGION IN THE MIDDLE STRATOSPHERE, LEADING TO A REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE FROM 20 TO 3 HPA.

STRATALERT BERLIN 28 JANUARY 2003 1400 UTC STRATALERT EXISTS.
STILL DISTURBED WAVE NUMBER TWO PATTERN OF THE CIRCULATION AND OF THE TEMPERATURE DISTRUBATION. WARM AIR COVERS THE POLAR REGION IN THE MIDDLE STRATOSPHERE.

STRATALERT BERLIN 29 JANUARY 2003 1400 UTC STRATALERT EXISTS.
STILL DISTURBED WAVE NUMBER TWO PATTERN OF THE CIRCULATION. WARM AIR COVERS THE POLAR REGION IN THE MIDDLE STRATOSPHERE.

STRATALERT BERLIN 30 JANUARY 2003 1400 UTC STRATALERT EXISTS.
STILL DISTURBED WAVE NUMBER TWO PATTERN OF THE CIRCULATION. WARM AIR COVERS THE POLAR REGION IN THE MIDDLE AND UPPER STRATOSPHERE, LEADING TO A REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE AT 20 HPA AND AT THE UPPER LEVELS.

STRATALERT BERLIN 31 JANUARY 2003 1400 UTC STRATALERT EXISTS.
STILL DISTURBED WAVE NUMBER TWO PATTERN OF THE CIRCULATION. WARM AIR COVERS THE POLAR REGION IN THE MIDDLE AND UPPER STRATOSPHERE, LEADING TO A REVERSED TEMPERATURE GRADIENT BETWEEN 60N AND THE POLE AT THE UPPERMOST LEVELS.