

HFUS 1 BOU 070600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 097-A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 07 APRIL 1977

IA. REGION 804 (N18W72) HAS PRODUCED FOUR SUBFLARES IN THE PAST 8 HOURS AND HAS SHOWN MINOR GROWTH. NO OTHER REGIONS ARE OF ANY SIGNIFICANCE. ONLY A SINGLE SUNSPOT IS REPORTED IN THE REGION.

IB. FURTHER GROWTH OF REGION 804 IS EXPECTED TO PRODUCE ADDITIONAL SMALL FLARES. VIGOROUS GROWTH COULD LEAD TO FLARES APPROACHING CLASS M. WEST LIMB PASSAGE MAY OCCUR BEFORE FLARES OF THIS MAGNITUDE CAN BE PRODUCED.

II. A MAGNETIC STORM COMMENCED GRADUALLY AT ABOUT 1430Z ON 6 APRIL AND HAS BEEN ESPECIALLY STRONG IN THE PAST SIX HOURS. UNSETTLED CONDITIONS MAY RETURN BY THE END OF THE THIRD DAY.

III. EVENT PROBABILITIES 07-09 APRIL

CLASS M 05/05/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 APRIL 076

PREDICTED 07-09 APRIL 076/076/076

90-DAY MEAN 06 APRIL 79

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 05 APRIL 13

ESTIMATED AFR/AP 06 APRIL 22/40

PREDICTED AFR/AP 07-09 APRIL 35/35 - 20/20 - 15/15

SOLTERWARN

BT

HFUS 3 BOU 071500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 097-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1500Z 07 APRIL 1977

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. A SUB-FLARE IN REGION 804  
(N18W77) PRODUCED A C-2 X-RAY EVENT. OTHER DISK REGIONS HAVE  
BEEN QUIET.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW WITH REGION  
804 PRODUCING A FEW MINOR X-RAY EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN IN A STORM CONFIGURATION SINCE  
06/1500Z. ACTIVE TO STORM CONDITIONS ARE EXPECTED FOR THE BALANCE  
OF THIS ZULU DAY.

III. EVENT PROBABILITIES 07-09 APRIL

CLASS M 05/05/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 APRIL 076

PREDICTED 07-09 APRIL 076/076/076

90-DAY MEAN 06 APRIL 79

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 05 APRIL 13

ESTIMATED AFR/AP 06 APRIL 22/40

PREDICTED AFR/AP 07-09 APRIL 40/45 - 20/20 - 15/15

SOLTERWARN

BT

HFUS 1 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 097

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 07 APRIL 1977

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. A SUB-FLARE IN REGION  
804 (N18W84) PRODUCED A C-2 X-RAY EVENT (07/0304Z MAX). SURGING  
ACCOMPANIED THE WEST LIMB TRANSIT OF REGION 800 (N27W92) EARLIER  
TODAY AND SURGES ARE OCCURRING IN REGION 804. THE REMAINDER OF  
THE DISK HAS BEEN QUIET.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW.

II. THE GEOMAGNETIC FIELD BEGAN A GRADUAL COMMENCEMENT OF STORM  
CONDITIONS NEAR 06/1500Z WITH THE STORM DIMINISHING NEAR 07/1500Z.  
PRELIMINARY ANALYSIS INDICATES BOTH EARTH AND SATELLITE MAGNETO-  
METERS EXPERIENCED A FORWARD/REVERSE SHOCK PHENOMENA. BOULDER GROUND  
EXPERIENCE II GAMMA DEFLECTION WITH THE COMPRESSION (1846Z) AND  
42 GAMMA DEFLECTION WITH THE EXPANSION (1956Z) PHASE.  
THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY ACTIVE, WITH SHORT  
PERIODS OF STORM CONDITIONS, THROUGH 10 APRIL.

III. EVENT PROBABILITIES 08 - 10 APRIL

CLASS M 05/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 APRIL 77

PREDICTED 08 - 10 APRIL 76/75/75

90-DAY MEAN 07 APRIL 79

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 06 APRIL 30

ESTIMATED AFR/AP 07 APRIL 40/45

PREDICTED AFR/AP 08 - 10 APRIL 25/20 - 20/20 - 20/15

SOLTERWARN

BT