

HFUS3 BOU 032200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 184

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 JUL 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100 TO 03/2100Z: SOLAR ACTIVITY WAS MODERATE. REGION 4671 (S14E46) PRODUCED AN M4/2B EVENT AT 2/2128Z CORRELATED TO A TYPE II/IMPORTANCE 3 RADIO SWEEP WITH AN ESTIMATED SHOCK SPEED OF 2500 KM/S. TYPE IV/IMPORTANCE 3 SWEEP, 2695 MHZ (TENFLARE) BURST, AND 245 MHZ BURST ACCOMPANIED THIS FLARE ALONG WITH ALL OTHER DESCRIPTIVE FREQUENCIES MONITORED. THIS EVENT OCCURRED AT S15E56 AND WAS NOT POSITIONED FOR IDEAL PARTICLES PROPAGATION. REGION 4671 WAS A DSO/BETA (WHITE LIGHT CLASSIFICATION/MAGNETIC). NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4671 PROVIDES A VERY SLIGHT CHANCE OF MODERATE ACTIVITY (M-LEVEL X-RAYS). RETURNING REGION 4664 (S02, CAR 309) PROVIDES NO SIGNIFICANT ACTIVITY POTENTIAL.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z: GEOMAGNETIC ACTIVITY WAS UNSETLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS THE FIRST, SECOND, AND POSSIBLY THIRD DAYS (4-6 JUL). THIS SUDDEN STORM COMMENCEMENT AND DISTURBANCE IS FOUNDED ON THE M4/2B FLARE OF 2/2128Z ENHANCING THE PREVIOUS THREE EVENTS: DISAPPEARING FILAMENT (8 DEG LNGTH) AT S12W66 OF 30 JUN, NEGATIVE CORONAL HOLE (APPROX. 40 SQ. DEG.) CENTERED AT N10E00 OF 1 JUL, DISAPPEARING FILAMENT (6 DEG LNGTH) OF 2 JUL. MAJOR STORM LEVELS ARE POSSIBLE AT HIGH LATITUDES FROM 4/0600 UNTIL 5/1800Z. THE OUTLOOK IS EXPECTED TO BE AT ACTIVE TO UNSETLED LEVELS FOR 7-10 JUL.

III. EVENT PROBABILITIES 04 JUL-06 JUL

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 JUL 079

PREDICTED 04 JUL-06 JUL 082/083/083

90 DAY MEAN 03 JUL 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 JUL 004/009

ESTIMATED AFR/AP 03 JUL 008/010

PREDICTED AFR/AP 04 JUL-06 JUL 028/035-023/030-018/025

SOLTERWARN

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