

HFUS3 BOU 042200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 185

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 04 JUL 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/2100  
TO 04/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4671 (S14E31)  
PRODUCED A FEW B-LEVEL X-RAY EVENTS WITH SUB-FLARES. NO RADIO  
EVENTS ACCOMPANIED THEM. IT REMAINED A DSO/BETA (WHITE LIGHT  
CLASSIFICATION/MAGNETIC) WITH LITTLE OVERALL CHANGE. NEWLY  
NUMBERED REGION 4672 (S18E34) EMERGED IMMEDIATELY SOUTH OF  
REGION 4671 AS A BXO/BETA. NEWLY NUMBERED REGION 4673 (N06W11)  
WAS AN AXX/ALPHA. A FOUR DEGREE LONG DISAPPEARING FILAMENT FROM  
S21E09 WAS GONE BY 4/1323Z.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
VERY LOW. REGION 4671 PROVIDES A VERY SLIGHT CHANCE OF MODERATE  
(M-LEVEL X-RAYS) ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 03/2100Z TO 04/2100Z:  
GEOMAGNETIC ACTIVITY WAS UNSETTLED TO ACTIVE FROM  
START-OF-PERIOD UNTIL 4/1330Z. BOTH MID AND HIGH LATITUDES THEN  
EXPERIENCED STORM CONDITIONS (MINOR AND MAJOR RESPECTIVELY)  
UNTIL 1630Z. MINOR STORM LEVELS CONTINUED AT HIGH LATITUDES  
UNTIL END-OF-PERIOD. THIS BRIEF DISTURBANCE WAS PROBABLY THE  
RESULT OF THE M4/2B EVENT OF 2/2128Z. THAT FLARE INDICATED AN  
ESTIMATED SHOCK SPEED OF 2500 KM/S.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS  
EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS THE FIRST AND  
POSSIBLY SECOND DAYS (5-6 JUL). THIS DISTURBANCE IS BASED  
PRIMARILY ON THE M4/2B EVENT OF 2/2128Z CORRELATED TO A TYPE  
II/IMPORTANCE 3 RADIO SWEEP WITH AN ESTIMATED SHOCK SPEED OF  
2500 KM/S. THIS FLARE IS THOUGHT TO HAVE ENHANCED THREE  
PREVIOUS EVENTS: DISAPPEARING FILAMENT (8 DEG LGTH) AT S12W66  
OF 30 JUN, NEGATIVE CORONAL HOLE (APPROX. 40 SQ DEG) CENTERED  
AT N10E00 OF 1 JUL, AND ANOTHER DISAPPEARING FILAMENT (6 DEG  
LGTH) OF 2 JUL. MAJOR STORM CONDITIONS ARE POSSIBLE AT HIGH  
LATITUDES FROM START-OF-PERIOD UNTIL 5/1800Z. THE THIRD DAY (7  
JUL) AND OUTLOOK PERIOD (8-11 JUL) ARE EXPECTED TO BE ACTIVE TO  
UNSETTLED.

III. EVENT PROBABILITIES 05 JUL-07 JUL

CLASS M 05/05/05  
CLASS X 01/01/01  
PROTON 01/01/01  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 JUL 078  
PREDICTED 05 JUL-07 JUL 079/080/081  
90 DAY MEAN 04 JUL 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 JUL 007/010  
ESTIMATED AFR/AP 04 JUL 025/035  
PREDICTED AFR/AP 05 JUL-07 JUL 020/025-016/025-015/025

SOLTERWARN

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