

HFUS 180U 142200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 045

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 14 FEBRUARY 1979

IA. SOLAR ACTIVITY REMAINS MODERATE. AN M3/SB FLARE WAS  
OBSERVED FROM RGN 1556 (N15W75) ON 14/1548 UT AND WAS  
ACCOMPANIED BY A BRIGHT SURGE AND SHORT WAVE FADES; HOWEVER  
VERY LITTLE RADIO BURSTS WERE APPARENT. RGN 1574 (N16E61) HAS  
HAD SEVERAL SMALL FLARES AND SUBFLARES WITH AN M1 X-RAY  
FLARE ON 14/0107 U.T. RGN 1568 (N19E37) HAS HAD MINOR  
ACTIVITY WITH SEVERAL SUBFLARES HAVING OCCURRED DURING THE  
PERIOD. RGN 1573 (S16E47) IS APPARENTLY GROWING AND IN-  
CREASING IN ACTIVITY WITH FLUCTUATIONS TO NEAR FLARE AND  
A STRONG ARCH FILAMENT SYSTEM. RGN 1574 COULD BE A POSSIBLE  
DELTA MAGNETIC CONFIGURATION.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE. RGN 1556 (N15W83)  
AND 1574 (16E61) ARE POTENTIALLY CAPABLE OF PRODUCING  
ENERGETIC EVENTS. OLD RGN 1525 WHICH PRODUCED 27 FLARES ON  
LAST ROTATION SHOULD BE RETURNING AT APPROX. NE15-20;  
SURGING AT NE15 AND SE25 WOULD INDICATE THE APPROACH OF AN  
ACTIVE LONGITUDE.

II. THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST 24  
HOURS. THIS FIELD SHOULD REMAIN QUIET TO UNSETTLED FOR THE  
NEXT PERIOD.

III. EVENT PROBABILITIES 15-17 FEBRUARY 1979

CLASS M 90/90/90

CLASS X 15/10/10

PROTON 15/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 FEB 229

PREDICTED 15-17 FEB 210/215/221

90-DAY MEAN 14 FEB 186

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 FEB 02

ESTIMATED AFR/AP 14 FEB 03/05

PREDICTED AFR/AP 15-17 FEB 08/11 - 09/13 - 10/14

SOLTERWAR

BT