

HFUS 3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 072

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 13 MAR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100
TO 13/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS.
THE LARGEST EVENT WAS AN UNOBSERVED C4 X-RAY EVENT AT 12/2330Z
ASSOCIATED WITH MINOR RADIO NOISE FROM 245-2695 MHZ. A MAJOR
BURST OF 2700 FLUX UNITS AT 245 MHZ, DURATION 10 MINUTES,
OCCURRED AT 1837Z APPARENTLY IN CONJUNCTION WITH A SURGE AT
SE06. SURGING HAS BEEN REPORTED THROUGHOUT THE DAY FROM THE
FOLLOWING LOCATIONS: SW22 (DEPARTING REGION 4104), SE20, SW26,
SE09, SE06. NEW PLAGE HAS ROTATED OVER THE SOUTHEAST LIMB TODAY,
BUT ONLY ONE SPOT IS VISIBLE ON THE DISK AT FORECAST TIME. IT
IS IN REGION 4110 (S02W30). REGION 4114 (S10W25) WAS STILL
DEVELOPING YESTERDAY, BUT IT HAS SINCE DECAYED TO ONLY BRIGHT
PLAGE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE LOW. HOWEVER, SURGING ON THE SOUTHEAST LIMB MAY BE
ASSOCIATED WITH THE RETURN ON 15 MARCH OF REGION 4095, WHICH
WAS DEVELOPING RAPIDLY UPON WEST LIMB PASSAGE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS
FOR THE PAST 24 HOURS OWING TO THE INFLUENCE OF A HIGH-SPEED
SOLAR WIND STREAM FROM A RECURRENT, EQUATORIAL
POSITIVE-POLARITY CORONAL HOLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO CONTINUE AT ACTIVE TO OCCASIONAL MINOR STORM LEVELS
FOR THE NEXT 36 HOURS. UNSETTLED CONDITIONS SHOULD PREVAIL BY
THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 14 MAR-16 MAR

CLASS M 05/05/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 MAR 097

PREDICTED 14 MAR-16 MAR 100/103/105

90 DAY MEAN 13 MAR 142

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 MAR 032/041

ESTIMATED AFR/AP 13 MAR 031/025

PREDICTED AFR/AP 14 MAR-16 MAR 025/020-020/020-015/015

SOLTERWARN

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