

HFUS 3 BOU 222200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 081

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 22 MAR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100
TO 22/2100Z: SOLAR ACTIVITY REMAINS LOW. REGION 4115 (S12W51)
PRODUCED TWO SUBFLARES DURING THE PERIOD, A C1/SN AT 0159Z
MAXIMUM AND A C1/SF AT 0247Z MAXIMUM. REGION 4118 (S11W15) ALSO
PRODUCED TWO MINOR SUBFLARES. REGION 4115 IS DISPLAYING SLOW
DECAY AND SPOT FRAGMENTATION. ITS MAGNETIC GRADIENTS HAVE
WEAKENED AND ITS MAGNETIC DELTA CONFIGURATION IS ALMOST GONE.
REGION 4118 HAS STABILIZED IN SIZE AND MAGNETIC COMPLEXITY. IN
WHITE LIGHT THIS REGION IS A SIMPLE H-TYPE SPOT. REGION 4116
(S07W30), THE ONLY OTHER DISK REGION CAPABLE OF ANY SIGNIFICANT
ACTIVITY HAS BEEN QUIET AND DECAYING. NO NEW REGIONS WERE
NUMBERED TODAY, HOWEVER, A LARGE PLAGE WHICH IS MODERATELY
BRIGHT IS VISIBLE AT S10E80.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW
WITH THE POSSIBILITY OF AN ISOLATED M-CLASS FLARE FROM REGION
4115 PRIOR TO WEST LIMB ROTATION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED EXCEPT FOR A BRIEF
PERIOD AT ACTIVE LEVELS DURING THE 00-03Z TIME PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO BE
UNSETTLED TO OCCASIONALLY ACTIVE THROUGH THE FORECAST PERIOD. A
DISAPPEARING FILAMENT OBSERVED ON THE 20TH COULD INCREASE
ACTIVITY SLIGHTLY ON THE 24TH.

III. EVENT PROBABILITIES 23 MAR-25 MAR

CLASS M	40/30/20
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	22 MAR	118
PREDICTED	23 MAR-25 MAR	119/115/112
90 DAY MEAN	22 MAR	134

V. GEOMAGNETIC A INDICES

OBSERVED	AFR/AP 21 MAR	011/013
ESTIMATED	AFR/AP 22 MAR	011/015
PREDICTED	AFR/AP 23 MAR-25 MAR	010/015-010/025-008/015

SOLTERWARN

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