

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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