

HFUS 3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 082

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 MAR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100 TO 23/2100Z: SOLAR ACTIVITY INCREASED SLIGHTLY DURING THE PAST 24 HOURS, BUT STILL REMAINED IN THE LOW CATEGORY. REGION 4115 (S12W66) PRODUCED THE LARGEST EVENT OBSERVED SINCE THE 18TH, A C4/SB FLARE AT 1853Z MAXIMUM. THIS EVENT WAS ACCCOMPANIED BY MODERATE SIZED RADIO BURSTS AT THE LOW FREQUENCIES (460FU AT 245MHZ) AND MINOR BURSTS AT HIGHER FREQUENCIES (30FU AT 2695MHZ). THIS REGION CONTINUES TO DISPLAY SLOW SPOT DECAY, BUT STILL CONTAINS A VERY WEAK MAGNETIC DELTA CONFIGURATION IN THE SOUTHERN PORTION OF ITS LARGE LEADER POLARITY PENUMbra. ALL OTHER SPOTTED REGIONS ON THE VISIBLE DISK HAVE SHOWN LITTLE CHANGE. REGION 4121 (S12W23) WAS THE ONLY OTHER GROUP TO PRODUCE ANY FLARE ACTIVITY, WITH TWO SMALL SUBFLARES OBSERVED. A NEW UNSPOTTED REGION WAS NUMBERED TODAY, 4123 (S15E55). THIS BRIGHT PLAGE PRODUCED A SUBNORMAL FLARE AT 1441Z MAXIMUM.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW. REGION 4115 COULD PRODUCE AN ISOLATED M-CLASS EVENT PRIOR TO WEST LIMB ROTATION ON THE 25TH.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED WITH BRIEF PERIODS AT ACTIVE LEVELS DURING THE NIGHT-TIME SECTORS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO REMAIN UNSETTLED TO OCCASIONALLY ACTIVE FOR THE DURATION OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 24 MAR-26 MAR

CLASS M 30/20/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 MAR 117

PREDICTED 24 MAR-26 MAR 115/112/105

90 DAY MEAN 23 MAR 133

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 MAR 011/014

ESTIMATED AFR/AP 23 MAR 010/015

PREDICTED AFR/AP 24 MAR-26 MAR 010/025-008/020-010/015

SOLTERWARN

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