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HFUS 3 BOU 142200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 073  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 14 MAR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100 TO 14/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. HOWEVER, THE GENERAL LEVEL OF ACTIVITY IS INCREASING. - NINE C-CLASS X-RAY EVENTS OCCURRED DURING THIS FORECAST PERIOD COMPARED WITH THREE EVENTS YESTERDAY. MOST OF TODAY'S X-RAY EVENTS WERE NOT OBSERVED OPTICALLY DUE TO POOR WEATHER CONDITIONS WORLDWIDE. HOWEVER, THOSE FLARES WHICH HAVE BEEN REPORTED OCCURRED IN TWO NEW REGIONS. REGION 4115 (S13E54), LOCATED NEAR THE VICINITY OF 3 ROTATIONS OF SPOTTED REGIONS, IS A C-TYPE GROUP CONTAINING A STRONG ARCH FILAMENT SYSTEM ACROSS AN EAST-WEST INVERSION LINE. REGION 4116 (S07E74) IS PRESENTLY A D-TYPE GROUP WITH A CLOSED POLE AROUND THE LEADER. ACTIVE DARK FILAMENTS HAVE BEEN REPORTED IN REGIONS 4115 AND 4116, AND NEAR S13E01.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW BUT WITH AN INCREASING CHANCE OF ISOLATED M-CLASS ACTIVITY FROM REGIONS NOW ROTATING ONTO THE DISK.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 13/2100Z TO 14/2100Z: THE GEOMAGNETIC FIELD HAS BEEN HIGHLY VARIABLE FOR THE PAST 24 HOURS. CONDITIONS RANGING FROM QUIET THROUGH MINOR STORM WERE OBSERVED AS A CONTINUING RESPONSE TO A CORONAL HOLE-GENERATED DISTURBANCE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY ACTIVE TOMORROW, BUT SHOULD TREND TOWARD LOW-UNSETLED CONDITIONS BY THE LAST DAY OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 15 MAR-17 MAR

CLASS M 05/15/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 MAR 097

PREDICTED 15 MAR-17 MAR 103/105/110

90 DAY MEAN 14 MAR 140

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 MAR 024/028

ESTIMATED AFR/AP 14 MAR 022/025

PREDICTED AFR/AP 15 MAR-17 MAR 020/020-015/015-010/015

SOLTERWARN

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