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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 046

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 15 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100 TO 15/2100Z: SOLAR ACTIVITY CONTINUED VERY LOW DURING THE PAST 24 HOURS. NO X RAY EVENTS ABOVE C CLASS HAVE BEEN OBSERVED. TWO NEW REGIONS WERE NUMBERED TODAY 4089 (N16W44) AND 4090 (S17E52) BOTH SIMPLE A TYPE GROUPS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT VERY LOW LEVEL DURING THE FORECAST PERIOD. THE CURRENT REGIONS ALONG WITH OLD RETURNING REGIONS SHOULD NOT PRODUCE ACTIVITY ABOVE SMALL "C" CLASS LEVEL.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS DURING THE PAST 24 HOURS. THE HIGH LATITUDE SITES WERE NEAR MAJOR STORM LEVELS AT 15/0000UT TO 0600UT AND 0900UT TO 1630UT WITH GENERALLY ACTIVE CONDITIONS FOR THE REST OF THE PERIODS. THE MID LATITUDE SITES WERE AT ACTIVE LEVELS DURING THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE LEVELS UNTIL 18 FEBRUARY WHEN GENERALLY UNSETTLED CONDITIONS ARE EXPECTED. THE EFFECTS OF THE LARGE CORONAL HOLE ARE EXPECTED TO DIMINISH DURING THE NEXT TWO DAYS. ANY EFFECTS FROM THE FILAMENT WHICH DISAPPEARED ON 12 FEB IS EXPECTED TO BE MINOR AND OF SHORT DURATION.

III. EVENT PROBABILITIES 16 FEB-18 FEB

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 FEB 091

PREDICTED 16 FEB-18 FEB 095/100/105

90 DAY MEAN 15 FEB 166

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 FEB 023/029

ESTIMATED AFR/AP 15 FEB 018/025

PREDICTED AFR/AP 16 FEB-18 FEB 020/020-015/015-010/010

SOLTERWARN

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