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HFUS 3 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 046

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 FEB 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100Z TO 15/2100Z: SOLAR ACTIVITY HAS CONTINUED LOW THIS PERIOD THE LARGEST EVENT OBSERVED HAS BEEN A SN, NO X RAY RECORDED, AT 0216UT FROM REGION 4410 (S10W84). REGION 4413 (S12W49) REMAINS THE LARGEST AND MOST MAGNETICALLY COMPLEX REGION CURRENTLY ON THE VISIBLE DIS HOWEVER IT HAS BEEN OBSERVED TO BE DECAYING RAPIDLY. THE REST OF THE REGIONS ARE REPORTED AS GENERALLY SMALL AND STABLE. NO NEW REGIONS HAVE BEEN OBSERVED YET TODAY. RADIO SCAN DOES NOT INDICATE ANY LARGE OLD RETURNING REGIONS JUST BEHIND THE EAST LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THIS FORECAST PERIOD. OLD ACTIVE REGIONS 439 (N17, L122), 4398 (N15, L108) AND 4399 (N11, L088) TOGETHER PRODUCED 6 M CLASS EVENTS LAST ROTATION AND IF THEY RETURN AS ACTIVE REGIONS THEN ISOLATED M CLASS EVENTS MAY OCCUR DURING THIS FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z THE GEOMAGNETIC YIELD WAS AT ACTIVE TO STORM LEVELS DURING THE FIRST 12 HOURS OF THIS PERIOD. THE YIELD HAS BEEN AT GENERALLY QUIET TO UNSETTLED LEVELS FOR THE REST OF THE PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN AT UNSETTLED LEVELS, SHORT PERIODS OF ACTIVE CONDITIONS DURING LOCAL MIDNIGHT, FOR THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 16 FEB-18 FEB

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM YLUX

OBSERVED 15 FEB 116

PREDICTED 16 FEB-18 FEB 108/108/112

90 DAY MEAN 15 FEB 107

V. GEOMAGNETIC A INDICES

OBSERVED FR/AP 14 FEB 037/043

ESTIMATEZ AFR/AP 15 FEB 013/025

PREDICTED AFR/AP 16 FEB-18 FEB 012/015 012/015 015/010

SOLTRWARN

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