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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 013

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 13 JAN 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100Z TO 13/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. THE SOLAR DISK REMAINS SPOTLESS. AN ACTIVE SURGE REGION WAS OBSERVED ON THE EAST LIMB AT S26 FOR MUCH OF THE DAY. THIS CORRESPONDS TO THE LOCATION OF OLD REGION 4762.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW. LARGE SCALE MAGNETIC FIELD CONFIGURATIONS SUGGEST A POSSIBILITY FOR ACTIVE REGION DEVELOPMENT AT CARRINGTON LONGITUDES OF 110 TO 150, CURRENTLY LOCATED IN THE VICINITY OF THE EAST LIMB. (THE CARRINGTON LONGITUDE OF THE EAST LIMB WAS 136 AT FORECAST ISSUE TIME)

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET WITH OCCASIONAL PERIODS OF UNSETTLED CONDITIONS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED FOR 14-15 JANUARY BECOMING UNSETTLED WITH PERIODS OF ACTIVE CONDITIONS ON 16 JANUARY.

III. EVENT PROBABILITIES 14 JAN-16 JAN

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 JAN 072

PREDICTED 14 JAN-16 JAN 073/074/074

90 DAY MEAN 13 JAN 077

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 JAN 008/010

ESTIMATED AFR/AP 13 JAN 005/009

PREDICTED AFR/AP 14 JAN-16 JAN 007/010-007/013-012/015