

HFU83 BOU 198200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 324

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 19 NOV 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/2100 TO 19/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4596 (N07W78) DECAYED TO A SPOTLESS FAINT PLAGE. THE EAST LIMB FROM N02 TO S12 WAS ACTIVE WITH PROMINENCES AND SURGING MUCH OF THE PERIOD. NEWLY ASSIGNED REGION 4598 (S11E87) ROTATED INTO VIEW NEARBY. IT WAS AN ALPHA-TYPE OF TWO DEGREES NORTH-SOUTH EXTENT. THE SECOND NEWLY ASSIGNED REGION 4597 (N19W05) WAS A BETA-TYPE WITH A STRONG ARCHED FILAMENT SYSTEM.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. RETURNING REGION 4590 (S10, CAR-050) PRODUCED ONLY ONE SUB-FLARE WITH NO SIGNIFICANT X-RAY NOR RADIO CORRELATION DURING ITS LAST ROTATION. IT IS PREDICTED TO REAPPEAR AT 20/0600Z. RETURNING REGION 4588 (N02, CAR-020) PRODUCED NO OPTICAL NOR X-RAY EVENTS DURING ITS LAST ROTATION BEFORE IT DECAYED TO A FAINT, SPOTLESS PLAGE SEVERAL DAYS BEFORE CROSSING THE WEST LIMB. IT IS PREDICTED TO REAPPEAR AT 22/1400Z.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 18/2100Z TO 19/2100Z: GEOMAGNETIC ACTIVITY WAS ACTIVE TO UNSETTLED. BRIEF MINOR STORM LEVELS WERE REPORTED AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE UNSETTLED TO ACTIVE.

III. EVENT PROBABILITIES 20 NOV-22 NOV

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 NOV 074

PREDICTED 20 NOV-22 NOV 075/075/075

90 DAY MEAN 19 NOV 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 NOV 017/021

ESTIMATED AFR/AP 19 NOV 016/018

PREDICTED AFR/AP 20 NOV-22 NOV 015/020-015/020-013/015

SOLTERWARN

BT