

HFUS 3 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 281

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 08 OCT 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/2100 TO 08/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 4328 (N08W04) IS STILL THE MOST IMPRESSIVE SPOT GROUP ON THE DISK BUT BEYOND SOME IMPRESSIVE RADIO BURSTS HAS NOT PRODUCED ANY SIGNIFICANT FLARE ACTIVITY. EVEN THOUGH THE REGION IS NOT AS COMPLEX AS IT WAS A COUPLE OF DAYS AGO IT IS STILL CAPABLE OF SIGNIFICANT FLARE ACTIVITY. TWO NEW REGIONS WERE NUMBERED THIS PERIOD, REGION 4335 (N23E57) AND REGION 4336 (S09W51), WITH B TYPE AND A TYPE SPOT CLASSIFICATIONS, RESPECTIVELY. ALL OTHER REGIONS ON THE DISK APPEAR STABLE AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN GENERALLY LOW WITH ISOLATED M CLASS X-RAY FLARES POSSIBLE FROM REGION 4328.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 07/2100Z TO 08/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT UNSETTLED TO ACTIVE LEVELS THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE AT ACTIVE LEVELS FOR THE FIRST TWO DAYS OF THE FORECAST PERIOD AND THEN RETURN TO UNSETTLED LEVELS ON THE LAST DAY.

III. EVENT PROBABILITIES 09 OCT-11 OCT

CLASS M 30/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 OCT 134

PREDICTED 09 OCT-11 OCT 136/136/134

90 DAY MEAN 08 OCT 120

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 OCT 010/014

ESTIMATED AFR/AP 08 OCT 011/015

PREDICTED AFR/AP 09 OCT-11 OCT 015/015-015/010-010/010

SOLTERWARN

BT