

HFUS 3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 280

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 OCT 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100 TO 07/2100Z: SOLAR ACTIVITY HAS BEEN LOW. ONLY ONE C CLASS X-RAY FLARE HAS OCCURRED THIS PERIOD, A C1/SN FLARE WHICH REACHED MAXIMUM AT 1432 UT. THIS FLARE WAS PRODUCED BY REGION 4328 (N07E09), WHICH WHILE SLOWLY DECAYING, IS STILL THE MOST IMPRESSIVE REGION ON THE DISK WITH A F TYPE SPOT CLASSIFICATION AND A MARGINAL BETA GAMMA MAGNETIC CONFIGURATION. ALL OTHER REGIONS ON THE DISK ARE STABLE AT THIS TIME. ONE NEW REGION WAS NUMBERED THIS PERIOD, REGION 4334 (S04E04), AN A TYPE SPOT GROUP.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD BE AT ACTIVE LEVELS THROUGHOUT THE FORECAST PERIOD DUE TO THE EXPECTED ARRIVAL OF A CORONAL HOLE STREAM.

III. EVENT PROBABILITIES 08 OCT-10 OCT

CLASS M 30/30/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 OCT 134

PREDICTED 08 OCT-10 OCT 135/136/136

90 DAY MEAN 07 OCT 120

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 OCT 014/021

ESTIMATED AFR/AP 07 OCT 011/015

PREDICTED AFR/AP 08 OCT-10 OCT 015/015-015/015-015/010

SOLTERWARN

BT