

HFUS 3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 283

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 10 OCT 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/2100 TO 10/2100Z: SOLAR ACTIVITY HAS CONTINUED LOW THIS PERIOD. THE ~~LARGEST EVENT OBSERVED WAS A C8/1B FROM REGION 4335 (N21E30) AT 0808UT.~~ REGION 4335 HAS EXHIBITED RAPID GROWTH AND IS NOW A "D" TYPE GROUP. REGION 4328 (N07W30) CONTINUES AS A LARGE "F" TYPE GROUP WITH A BETA GAMMA MAGNETIC CONFIGURATION. THE REST OF THE REGIONS HAVE BEEN GENERALLY STABLE. NO NEW REGIONS WERE NUMBERED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW DURING THIS FORECAST PERIOD. REGIONS 4335 AND 4328 MAY PRODUCE AN ISOLATED SMALL "M" CLASS EVENT IF RAPID CHANGE OCCURS IN THEIR STRUCTURE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 09/2100Z TO 10/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED TO QUIET THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT UNSETTLED LEVELS UNTIL EARLY ON 12 OCT WHEN CONDITIONS ARE FORECAST TO BE AT ACTIVE LEVELS FOR THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 11 OCT-13 OCT

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 OCT 137

PREDICTED 11 OCT-13 OCT 137/136/134

90 DAY MEAN 10 OCT 120

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 OCT 005/008

ESTIMATED AFR/AP 10 OCT 007/010

PREDICTED AFR/AP 11 OCT-13 OCT 010/010-015/020-020/020

SOLTERWARN

BT