

HFUS 3 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTE , BOULDER, COLORADO

SDF NUMBER 233

JOINT USAF/NOAA REPORT OF SOLAR AND GEO HYSICAL ACTIVITY.

ISSUED 2200Z 21 AUG 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100Z TO 21/2100Z: SOLAR ACTIVITY WAS AT MODERATE LEVELS DUE TO A M2/2B EVENT FROM REGION 4288 (N14E34) AT 1753UT, MINOR RADIO WAS OBSERVED WITH THE EVENT. REGION 4288 IS A SMALL, 150 MILLIONTHS, D TYPE GROUP WITH NO GROWTH BEING OBSERVED DURING THE PAST 24 HOURS. NEW GROUPS TODAY ARE 4290 (S11W10) AND 4291 (S18E17) BOTH SIMPLE GROUPS AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE DURING THIS FORECAST PERIOD. REGION 4288 IS EXPECTED TO BE THE ONLY PRODUCER, AND THEN RARELY, OF "M" CLASS EVENTS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 20/2100Z TO 21/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS DURING THE PAST 24 HOURS. A SHORT PERIOD OF MAJOR STORM LEVEL ACTIVITY OCCURED BETWEEN 0900 TO 1200UT AT THE MID-LATITUDE SITES WHILE THE HIGH LATITUDE SITES HAVE BEEN AT GENERALLY MINOR STORM LEVELS WITH SEVERAL PERIODS OF MAJOR STORM CONDITIONS BEING OBSERVED. THE ACTIVITY IS BELEIVED TO BE FROM A FILAMENT WHICH DISAPPEARED ON 16 AUG.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE WITH SHORT PERIODS OF MINOR STORM CONDITIONS DURING THE NEXT 18 HOURS THEN GENERALLY UNSETTLED CONDITIONS FOR THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 22 AUG-24 AUG

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 AUG 112

PREDICTED 22 AUG-24 AUG 115/118/118

90 DAY MEAN 21 AUG 133

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 AUG 009/015

ESTIMATED AFR/AP 21 AUG 031/030

PREDICTED AFR/AP 22 AUG-24 AUG 015/015-012/015-010/010

SOLTERWARN

BT