

HFUS3 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 292

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 19 OCT 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/2100 TO 19/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL DURING THE PAST 24 HOURS. REGION 4698 (N05E27) PRODUCED A B1/SB FLARE AT 190459UT AS IT RESUMED ITS SPOT GROWTH. THIS FLARE WAS ACCOMPANIED BY RADIO BURSTS FROM 245 MHZ TO 8800MHZ ALTHOUGH THEY WERE QUITE SMALL. REGION 4698 HAS POINT BRIGHTENINGS AND PLAGE FLUCTUATIONS WITH AN INCREASINGLY COMPLEX NEUTRAL LINE. THERE IS ALSO AN ADF IN THE TRAILER PORTIONS OF THIS REGION. REGION 4699 (N05E44) HAS GROWN SLIGHTLY BUT ITS MOST DISTINGUISHING CHARACTER IS ITS STRONG PERSISTENT ARCH FILAMENT SYSTEM.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL BUT THE FREQUENCY OF FLARE OCCURRENCE IS EXPECTED TO INCREASE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 18/2100Z TO 19/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT UNSETTLED TO ACTIVE LEVELS. BRIEF MINOR STORM CONDITIONS WERE OBSERVED AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD CONTINUE AT UNSETTLED TO ACTIVE LEVELS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 20 OCT-22 OCT

CLASS M 05/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 OCT 078

PREDICTED 20 OCT-22 OCT 080/081/082

90 DAY MEAN 19 OCT 071

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 OCT 019/027

ESTIMATED AFR/AP 19 OCT 015/020

PREDICTED AFR/AP 20 OCT-22 OCT 015/025-015/020-015/020

SOLTERWARN

BT