

HFUS3 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 293

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 20 OCT 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/2100 TO 20/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL DURING THE PAST 24 HOURS. REGION 4698 (N05E15) CONTINUES TO SHOW SLOW SPOT GROWTH BUT IS DECREASING IN MAGNETIC COMPLEXITY. SOME SURGING AND FILAMENT ACTIVITY IS CONTINUING IN REGION 4698 BUT THE GENERAL IMPRESSION IS THAT IT IS IN A DECLINING MODE. REGION 4699 (N05E29) HAS DOUBLED IN SPOT AREA SINCE YESTERDAY AND HAS A VERY ACTIVE FILAMENT IN ITS TRAILING PORTIONS. THIS REGION NOW HAS A D TYPE SPOT GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL. SMALL FLARES CAN BE EXPECTED BUT M CLASS ACTIVITY IS A LESS LIKELY POSSIBILITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 19/2100Z TO 20/2100Z: THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT UNSETTLED TO ACTIVE LEVELS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 21 OCT-23 OCT

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 OCT 080

PREDICTED 21 OCT-23 OCT 080/079/079

90 DAY MEAN 20 OCT 071

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 OCT 011/014

ESTIMATED AFR/AP 20 OCT 010/010

PREDICTED AFR/AP 21 OCT-23 OCT 010/020-010/020-010/025

SOLTERWARN

BT