

HFUS3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 296

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 OCT 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100 TO 23/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL DURING THE PAST 24 HOURS. A CLASS C6/1B FLARE (MAX 1505UT) FROM REGION 4699 (N05W15) IS THE LARGEST FLARE IT HAS PRODUCED SO FAR. A DISCRETE FREQUENCY BURST AT 245 MHZ REACHED 14000 FLUX UNITS WITH THIS FLARE. REGION 4699 GREW DRAMATICALLY DURING THE PAST 24 HOURS BUT RECENT REPORTS SUGGEST THAT GROWTH HAS ENDED AND SIGNS OF DECAY MAY HAVE ALREADY SET IN. REGION 4698 (N04W28) APPEARS TO HAVE STABILIZED IN GROWTH AND MAY HAVE PEAKED IN FLARE PRODUCTION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL FOR THE NEXT THREE DAYS. AN ISOLATED M EVENT IS STILL A REMOTE POSSIBILITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z: THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED AT MID LATITUDES AND AT ACTIVE TO MINOR STORM LEVELS AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE WITH OCCASIONAL MINOR STORM CONDITIONS. THE FILAMENT DISRUPTIONS ON 20 OCT ARE STILL EXPECTED TO HAVE AN IMPACT ON THE FIELD DURING THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 24 OCT-26 OCT

CLASS M 10/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 OCT 095

PREDICTED 24 OCT-26 OCT 095/095/094

90 DAY MEAN 23 OCT 072

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 OCT 017/022

ESTIMATED AFR/AP 23 OCT 010/016

PREDICTED AFR/AP 24 OCT-26 OCT 015/030-015/030-015/025