

HFUS3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 295

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 22 OCT 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100 TO 22/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL DURING THE PAST 24 HOURS. HOWEVER, REGION 4699 (N05W00) PRODUCED SEVERAL C CLASS FLARES ALONG WITH SMALL RADIO BURSTS. THE SPOT AREA OF THIS REGION INCREASED SLIGHTLY WHILE THE SPOT NUMBER MORE THAN DOUBLED. THE PENUMBRA OF THE LARGE SPOT HAS BECOME ASYMMETRIC AND THE OVERALL SPOT COMPLEXITY IS INCREASING. THE ARCH FILAMENT SYSTEM IS NO LONGER QUITE AS PROMINENT WHICH MAY INDICATE THE REGION IS REACHING Maturity. REGION 4698 (N05W15) DECAYED SLIGHTLY DURING THE PAST 24 HOURS. IT TOO HAS PRODUCED SMALL FLARES BUT THEY WERE NOT ACCCOMPANIED BY C CLASS XRAY EMISSION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL FOR THE NEXT THREE DAYS. CONTINUED DEVELOPEMENT IN 4699 COULD MAKE M CLASS ACTIVITY A REAL POSSIBILITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE WITH BRIEF MINOR STORM CONDITIONS AT MID LATITUDES AND MAJOR STORM CONDITIONS AT HIGH LATITUDES. THIS ACTIVITY IS PROBABLY RELATED TO DISAPPEARING FILAMENTS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO CONTINUE UNSETTLED TO ACTIVE WITH NIGHTTIME STORM CONDITIONS AS RECENT FILAMENT DISRUPTIONS CONTINUE TO IMPACT THE FIELD.

III. EVENT PROBABILITIES 23 OCT-25 OCT

CLASS M 10/10/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 OCT 095

PREDICTED 23 OCT-25 OCT 096/097/096

90 DAY MEAN 22 OCT 071

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 OCT 013/014

ESTIMATED AFR/AP 22 OCT 015/020

PREDICTED AFR/AP 23 OCT-25 OCT 015/025-015/030-015/030

SOLTERWARN

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