

HFUS3 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 294

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 21 OCT 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100Z TO 21/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL DURING THE PAST 24 HOURS. REGION 4699 (N05E14) HAS REPLACED REGION 4698 (N04E01) AS THE POINT OF INTEREST. REGION 4699 HAS CONTINUED TO GROW IN SPOT AREA AND IS PROBABLY A BETA GAMMA MAGNETICALLY. THE PLAGE IS MORE ORGANIZED AND POINT BRIGHTENINGS WITH PLAGE FLUCTUATIONS ARE MORE COMMON. THERE ARE NOW TWO ARCH FILAMENT SYSTEMS IN THIS REGION. REGION 4698 HAS DECAYED SLIGHTLY. ALTHOUGH IT CONTINUES TO SHOW PLAGE FLUCTUATIONS AND POINT BRIGHTENINGS, THEY ARE LESS INTENSE THAN YESTERDAY AND THE PLAGE IS DECLINING. THE OCCASIONAL ADF CONTINUES TO BE OBSERVED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL FOR THE NEXT THREE DAYS. THE LIKELIHOOD OF ACTIVITY NOW LIES WITH REGION 4699.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 20/2100Z TO 21/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE DURING THE NEXT 24 HOURS. GENERALLY ACTIVE CONDITIONS ARE EXPECTED ON 23 AND 24 OCTOBER AS A RESULT OF A FILAMENT DISRUPTION.

III. EVENT PROBABILITIES 22 OCT-24 OCT

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 OCT 086

PREDICTED 22 OCT-24 OCT 086/086/086

90 DAY MEAN 21 OCT 071

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 OCT 005/008

ESTIMATED AFR/AP 21 OCT 010/015

PREDICTED AFR/AP 22 OCT-24 OCT 010/020-015/025-015/035

SOLTERWARN

BT