

HFUS3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 297

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 OCT 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100 TO 24/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4699 (N06W29) HAS DECLINED IN AREA. IT IS AN ESI TYPE SPOT GROUP. REGION 4698 (N05W41) IS STABLE AND IS A CSI TYPE SPOT GROUP. THE REGION 4699-4698 COMPLEX PRODUCED FIVE C-CLASS X-RAY EVENTS, BUT THE NUMBER AND INTENSITY OF ASSOCIATED RADIO BURSTS HAS DIMINISHED. NO NEW REGIONS WERE NUMBERED TODAY. THE REST OF THE DISK AND LIMBS WERE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT THREE DAYS. REGION 4699 WILL MAINTAIN A SLOW DECLINE WHILE PRODUCING C-TYPE X-RAY FLARES. THE REGION 4699-4698 COMPLEX IS STILL CAPABLE OF AN M-TYPE X-RAY EVENT, BUT THE PROBABILITY IS DIMINISHING. NO REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE FOR THE PAST 24 HOURS. THE LEVEL OF ACTIVITY DECREASED FROM ACTIVE CONDITIONS TO UNSETTLED CONDITIONS AFTER 0000 UT 24 OCTOBER.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT THREE DAYS. ACTIVE CONDITIONS MAY PREVAIL WITH OCCASIONAL MINOR STORM LEVELS AT HIGHER LATITUDES ON 26 OCTOBER.

III. EVENT PROBABILITIES 25 OCT-27 OCT

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 OCT 094

PREDICTED 25 OCT-27 OCT 092/090/088

90 DAY MEAN 24 OCT 072

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 OCT 010/015

ESTIMATED AFR/AP 24 OCT 008/011

PREDICTED AFR/AP 25 OCT-27 OCT 012/015-015/020-008/010

SOLTERWARN

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