

HFUS 3 BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 301

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 28 OCT 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100 TO 28/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL DURING THE PAST 24 HOURS. TWO SMALL REGIONS WERE NUMBERED SINCE YESTERDAY: 4350 (S18E07) AND 4351 (S17E69). REGION 4349 (S06E14) DECLINED FROM A CLASS C GROUP TO A CLASS B GROUP. THE REST OF THE DISK IS STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN AT A VERY LOW LEVEL. HOWEVER, OLD RETURNING REGION 4328, WHICH PRODUCED ONE M EVENT ON ITS LAST ROTATION, IS DUE BACK ON THE VISIBLE DISK TOMORROW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: THE GEOMAGNETIC FIELD WAS QUIET DURING THE PREVIOUS 24 HOURS. DENSITY INCREASES AT SATELLITE ALTITUDE WERE NOTED NEAR 1600Z AND A DEPARTURE FROM QUIET DAY CONDITIONS HAS BEEN OBSERVED SINCE THAT TIME.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE DURING THE NEXT 48 HOURS AS A RESULT OF RECURRENCE.

III. EVENT PROBABILITIES 29 OCT-31 OCT

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 OCT 092

PREDICTED 29 OCT-31 OCT 095/099/102

90 DAY MEAN 28 OCT 117

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 OCT 002/006

ESTIMATED AFR/AP 28 OCT 009/010

PREDICTED AFR/AP 29 OCT-31 OCT 015/015-015/020-012/025

SOLTERWARN

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