

HFUS3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 254

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 10 SEP 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/2100 TO 10/2100Z: SOLAR ACTIVITY REMAINS AT A VERY LOW LEVEL. REGION 4576 (S05E15) IS THE ONLY SPOTTED REGION, ALTHOUGH SPOTS WERE REPORTED NEAR N33 E41 EARLIER IN THE DAY. REGION 4576 HAS DECAYED TO A SIMPLE B TYPE SPOT GROUP. THE LARGE EAST WEST FILAMENT CROSSING CM IN THE SOUTH HAS BEEN ACTIVE, ESPECIALLY THE SOUTH EAST EXTREMITY. A WEAK ASR WAS REPORTED NEAR NE05 EARLIER IN THE DAY. NO SIGNIFICANT REGIONS ARE DUE TO RETURN UNTIL 13 SEP WHEN REGION 4565 (S15 CAR 226) IS DUE TO RETURN.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL THROUGH THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 09/2100Z TO 10/2100Z: THE GEOMAGNETIC FIELD HAS RANGED FROM UNSETTLED TO ACTIVE TO MINOR STORM LEVELS. STORM CONDITIONS WERE OBSERVED BETWEEN 09/2100UT AND 10/0100UT AND BETWEEN 10/0900UT AND 10/1200UT. THIS ACTIVITY IS BEING ATTRIBUTED TO SMALL FILAMENTS WHICH DISAPPEARED ON 6, 7, AND 8 SEP. THE CORONAL HOLES WHICH ARE NOW THREE DAYS PAST CM MAY ALSO BE CONTRIBUTING.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE LEVELS WITH OCCASIONAL PERIODS REACHING MINOR STORM LEVELS.

III. EVENT PROBABILITIES 11 SEP-13 SEP

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 SEP 078

PREDICTED 11 SEP-13 SEP 077/077/077

90 DAY MEAN 10 SEP 090

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 SEP 013/016

ESTIMATED AFR/AP 10 SEP 017/030

PREDICTED AFR/AP 11 SEP-13 SEP 020/025-015/020-012/015

SOLTERWARN

BT