

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 10/14/86 00:00:00

End : 10/14/86 23:59:00

10/14 22:00

2251

HFUS3 BOU 142200 CDR

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 287

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 OCT 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100 TO 14/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. ALL NUMBERED REGIONS HAVE TRANSITED THE WEST LIMB. THERE WERE SEVERAL LONG DURATION EVENTS (C-CLASS) WHICH BEGAN AT APPROXIMATELY 14/0830Z AND ENDED AT 14/1630Z. SMM CORRELATED AT LEAST ONE EVENT WITH REGION 4748. THE REMAINDER OF THE DISK AND LIMBS ARE QUIET AND STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. SOME MINOR FLARING IS EXPECTED FOR THE NEXT 12 HOURS AS THE PREVIOUS REGIONS CONTINUE THEIR TRIP AROUND THE WEST LIMB. HOWEVER, CONDITIONS SHOULD DROP OFF NO LATER THAN TOMORROW AFTERNOON.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 13/2100Z TO 14/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY ACTIVE WITH BRIEF PERIODS OF MAJOR STORM CONDITIONS AT MID LATITUDES. HIGH LATITUDE STATIONS OBSERVED MINOR TO MAJOR STORM LEVELS THROUGHOUT THE ENTIRE PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS WITH BRIEF PERIODS OF MAJOR STORM CONDITIONS POSSIBLE AT HIGH LATITUDES ON 15 AND 16 OCT. THE THIRD DAY OF THE FORECAST PERIOD IS EXPECTED TO BE GENERALLY ACTIVE. THE FORECAST IS BASED ON A RECURRENT PATTERN THAT IS SEVERAL ROTATIONS OLD.

III. EVENT PROBABILITIES 15 OCT-17 OCT

CLASS M 02/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 OCT 075

PREDICTED 15 OCT-17 OCT 074/073/072

90 DAY MEAN 14 OCT 070

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 OCT 022/044

ESTIMATED AFR/AP 14 OCT 020/042

PREDICTED AFR/AP 15 OCT-17 OCT 020/030-020/030-020/025

RETRANSMITTED FOR HD AT HLMS - NO CHANGE TO DATA

SOLTERWARN

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