

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 11/02/87 00:00:00

End : 11/02/87 23:59:00

11/02 22:00

2202

HFUS3 BDU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 306

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 NOV 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100Z TO 02/2100Z: SOLAR ACTIVITY WAS LOW. NEWLY ASSIGNED REGION 4883 (S22E66) CONTRIBUTED SURGING AND SMALL SUBFLARES DURING THE PERIOD. REGION 4882 (S24E55), IMMEDIATELY AHEAD AND SLIGHTLY POLEWARD OF REGION 4883, PRODUCED A C7/0B FLARE AT 02/1401Z. MINOR RADIO BURSTS ACCOMPANIED THE EVENT. THESE TWO REGIONS HAVE A DISTINCT BREAK BETWEEN THEIR RESPECTIVE PLAGE FIELDS, BUT THEIR CLOSE PROXIMITY IMPLIES INTERACTIVE SYSTEMS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. THE COMPLEX OF REGIONS 4882 AND 4883 PROVIDES A SLIGHT CHANCE OF MODERATE ACTIVITY, AND A VERY SLIGHT CHANCE OF HIGH ACTIVITY OR A PROTON PRODUCING FLARE. RETURNING REGIONS 4870 (S24, L-208) AND 4866 (N22, L-194) ARE EXPECTED THE SECOND AND THIRD DAYS (04 AND 05 NOV) RESPECTIVELY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE. MINOR TO MAJOR STORM CONDITIONS OCCURRED AT HIGH LATITUDES LATE IN THE PERIOD. THE CURRENT DISTURBANCE STARTED WITH A GLOBAL IMPULSE AT 02/1550Z. IT IS POSSIBLY THE EFFECT OF THE ESTIMATED C3.3 LONG DURATION X-RAY EVENT OF 30/2215Z OCT, ALTHOUGH THE MANY SMALL C-CLASS SUBFLARES AND DISAPPEARING FILAMENTS OF 25-28 OCT WEAKEN THE CONCLUSION.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS. THE ESTIMATED C3.3 LDXE OF 30/2215Z IS EXPECTED TO SUPPORT A DISTURBANCE THROUGHOUT THE PERIOD. BRIEF MAJOR TO SEVERE STORM CONDITIONS ARE EXPECTED AT HIGH LATITUDES.

III. EVENT PROBABILITIES 03 NOV-05 NOV

CLASS M 15/20/15

CLASS X 02/03/02

PROTON 02/03/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 NOV 107

PREDICTED 03 NOV-05 NOV 106/104/102

90 DAY MEAN 02 NOV 092

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 NOV 006/013

ESTIMATED AFR/AP 02 NOV 014/025

PREDICTED AFR/AP 03 NOV-05 NOV 020/030-025/040-018/025

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