

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 12/05/87 00:00:00

End : 12/05/87 23:59:00

12/05 22:00

2201

HFUS3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 339

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 05 DEC 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/2100Z
TO 05/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4901
(S22E04) CONTINUED TO GROW AND PRODUCED TWO SUBFLARES. AN
ARCH FILAMENT SYSTEM WAS OBSERVED IN THE REGION ALL DAY AND
SOME PENUMBRA APPEARED TO BE DEVELOPING AT FORECAST ISSUE
TIME. REGION 4898 (S23W80) BEGAN TO REEMERGE AND PRODUCED
A SUBFLARE. THE REMAINDER OF THE SOLAR DISK WAS ESSENTIALLY
QUIET AND STABLE. NO NEW REGIONS WERE NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
VERY LOW. REGION 4901 IS EXPECTED TO CONTINUE TO PRODUCE OC-
CASIONAL SMALL FLARES. OLD REGION 4890, WHICH PRODUCED SEVERAL
C-CLASS FLARES AND ONE M-CLASS FLARE ON ITS LAST ROTATION IS DUE
TO RETURN ON 08 DECEMBER AT LATITUDE S26.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 04/2100Z TO 05/2100Z:
THE GEOMAGNETIC FIELD RANGED FROM QUIET TO ACTIVE LEVELS
WITH TWO BRIEF PERIODS OF STORM CONDITIONS. THE FIRST PERIOD
WAS FROM 04/2100-05/0130Z WITH MID-LATITUDES AT ACTIVE TO
MINOR STORM LEVELS AND HIGH LATITUDES AT MINOR TO MAJOR STORM
LEVELS. THE SECOND PERIOD WAS FROM 0900-1200Z WHEN MID-
LATITUDES WERE ACTIVE AND HIGH LATITUDES WERE AT ACTIVE TO
MINOR STORM LEVELS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE GENERALLY UNSETTLED FOR THE NEXT THREE DAYS
WITH A SLIGHTLY ACTIVE PERIOD BEGINNING LATE ON 06 DECEMBER
AND ENDING AT ABOUT MID-DAY 07 DECEMBER.

III. EVENT PROBABILITIES 06 DEC-08 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 DEC 089

PREDICTED 06 DEC-08 DEC 091/092/095

90 DAY MEAN 05 DEC 095

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 DEC 008/014

ESTIMATED AFR/AP 05 DEC 013/022

PREDICTED AFR/AP 06 DEC-08 DEC 010/017-012/016-010/014

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