

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 03/14/87 00:00:00

End : 03/14/87 23:59:00

03/14 22:00

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HFUS3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 073

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 MAR 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100Z TO 14/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. TWO NEW

REGIONS WERE NUMBERED DURING THE PREVIOUS 24 HOURS. REGION 4779 (S33E75, HSX/ALPHA) AND REGION 4780 (S19E33, AXX/ALPHA).

REGION 4779 IS IN THE AREA OF ALL THE ACTIVITY LOCATED ON THE SOUTHEAST LIMB YESTERDAY, HOWEVER, IT IS NOW BELIEVED THE REGION THAT WAS CAUSING FLARES AND RADIO FREQUENCY BURSTS IS STILL PARTIALLY BEHIND THE LIMB. THE MOST SIGNIFICANT OF THE ACTIVITY WAS A C5.5/1B FLARE (MAX AT 13/2152Z) WITH AN ASSOCIATED 245MHZ BURST OF 100SFU AND A TYPE II/IV SWEEP. ACTIVITY SINCE THAT TIME HAS BEEN MINIMAL. AAA

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. FLARE POTENTIAL STILL EXISTS IN THE AREA OF REGION 4779 AND WILL CONTINUE TO BE MONITORED CLOSELY. NO OTHER SIGNIFICANT REGION IS EXPECTED TO RETURN DURING THE NEXT 24 HOURS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 13/2100Z TO 14/2100Z:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED DURING THE PAST 24 HOURS. ONE BRIEF PERIOD OF ACTIVE CONDITIONS WAS OBSERVED AT HIGH LATITUDES BETWEEN 14/0600Z AND 14/0730Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE ON 15 MARCH, PREDOMINATELY ACTIVE ON 16 MARCH, AND THEN RETURN TO UNSETTLED ON 17 MARCH. THE ACTIVE CONDITIONS EXPECTED ON THE 16TH ARE ANTICIPATED AS A RESULT OF YESTERDAYS SOLAR ACTIVITY.

III. EVENT PROBABILITIES 15 MAR-17 MAR

CLASS M 02/02/02

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 MAR 072

PREDICTED 15 MAR-17 MAR 073/074/075

90 DAY MEAN 14 MAR 072

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 MAR 007/011

ESTIMATED AFR/AP 14 MAR 008/013

PREDICTED AFR/AP 15 MAR-17 MAR 010/015-015/020-010/010

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