

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 05/29/87 00:00:00

End : 05/29/87 23:59:00

05/29 22:00

2201

HFUS3 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 149

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 29 MAY 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/2100Z TO 29/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4812 (N23W21) CONTINUES AS THE ONLY SPOTTED REGION ON THE DISK.

ALTHOUGH THE REGION HAS REMAINED QUIET AND STABLE, LOW FREQUENCY RADIO SWEEPS HAVE BEEN OCCURRING AT A VERY FREQUENT RATE. IN ADDITION, SEVERAL 245 MHZ RADIO BURSTS HAVE OCCURRED IN THE PAST 24 HOURS. THE STRONGEST OF THE BURSTS OCCURRED AT 1603 UT AND HAD A MAX OF 740 SFU. THESE SWEEPS AND BURSTS CANNOT BE POSITIVELY CORRELATED TO ANY REGION OR AREA, BUT SUSPICION EXISTS THAT THE EVENTS ARE BEING CAUSED BY REGION 4811 THAT CROSSED THE WEST LIMB WITHIN THE PAST 48 HOURS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW DURING THE NEXT THREE DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 28/2100Z TO 29/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS AT MID LATITUDES UNTIL 1500 UT WHEN THE LEVELS DECREASED TO UNSETTLED. HIGH LATITUDE STATIONS HAD MINOR TO MAJOR STORM CONDITIONS FROM THE BEGINNING OF THE PERIOD TO 1800 UT WHEN CONDITIONS BECAME UNSETTLED.

REASON FOR THE HIGH CONDITIONS ARE UNKNOWN AT THIS TIME.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE ON 30 MAY AND UNSETTLED FOR THE REMAINDER OF THE PERIOD.

III. EVENT PROBABILITIES 30 MAY-01 JUN

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 MAY 077

PREDICTED 30 MAY-01 JUN 076/075/075

20 DAY MEAN 29 MAY 083

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 MAY 010/016

ESTIMATED AFR/AP 29 MAY 025/047

PREDICTED AFR/AP 30 MAY-01 JUN 015/018-010/012-010/012

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