

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 03/03/86 00:00:00

: 03/03/86 23:59:00

03/03 22:00

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HFUS3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 062

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 MAR 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100 TO 03/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. REGION 4717 (NOOE40) IS NOW A DKC BETA-DELTA SPOT GROUP. THE REGION HAS SHOWN A SLOW INCREASE IN ACTIVITY UP TO THE POINT OF AN M1-CLASS X-RAY EVENT AT 1242UT (MAX 1254UT). REGION 4717 ALSO PRODUCED SEVERAL WEAK DISCRETE FREQUENCY RADIO BURSTS. THE REGION HAS CONTINUED TO HAVE NEAR FLARE INTENSITY POINT BRIGHTENINGS. REGION 4718 (NO3W26), A CSO BETA SPOT GROUP HAS REMAINED GENERALLY QUIET THROUGHOUT THE PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE FOR THE NEXT THREE DAYS. THE COMPLEXITY OF REGION 4717 INDICATES A GOOD POSSIBILITY OF FURTHER M-CLASS X-RAY EVENTS AND SOME POSSIBILITY OF X-CLASS EVENTS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET FOR THE PAST 24 HOURS. SOME PERIODS OF UNSETTLED CONDITIONS WERE OBSERVED AT HIGH LATITUDES.

. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE MOSTLY UNSETTLED FOR THE NEXT 24 HOURS, THEN INCREASING TO UNSETTLED TO ACTIVE FOR THE REMAINING 48 HOURS. THE FORECAST IS BASED PRIMARILY ON RECURRENCE WITH THE SECOND AND THIRD DAYS ACTIVITY LEVELS RESPONDING TO POSSIBLE INFLUENCE FROM A DISAPPEARING FILAMENT (S09E47 12 DEGREES) THAT OCCURRED ON 1 MARCH.

III. EVENT PROBABILITIES 04 MAR-06 MAR

CLASS M 50/50/50

CLASS X 20/20/20

PROTON 02/05/20

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 MAR 092

PREDICTED 04 MAR-06 MAR 095/097/099

90 DAY MEAN 03 MAR 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 MAR 011/015

ESTIMATED AFR/AP 03 MAR 008/010

PREDICTED AFR/AP 04 MAR-06 MAR 007/010-010/015-015/020

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