

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 03/05/86 00:00:00

: 03/05/86 23:59:00

03/05 22:00

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HFUS3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 064

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 05 MAR 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/2100 TO 05/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. REGION 4717 (N02E15) HAS CHANGED SLIGHTLY IN CLASS DURING THE PERIOD. CONSENSUS HAS THE REGION IDENTIFIED AS A DK1 BETA-GAMMA GROUP, EXCEPT MOUNT WILSON OBSERVATORY, WHO IDENTIFIES IT AS A BETA-GAMMA-DELTA. THIS REGION, WHILE REMAINING TO BE A POTENTIAL ENERGETIC EVENT PRODUCER, HAS BEGUN TO SHOW SOME SIGNS OF DECAY. THE OVERALL AREA IS ABOUT THE SAME AS PREVIOUS DAYS, BUT NOW HAS FEWER SPOTS AND IS BEGINNING TO FRAGMENT ITS PENUMBRA SOMEWHAT. REGION 4717 DID HAVE AN M1.6 X-RAY EVENT (MAX 0709UT) EARLIER IN THE PERIOD. THERE WAS ALSO A 1B OPTICAL FLARE AND A TENFLARE OF 260 FLUX UNITS ASSOCIATED WITH IT. THERE WERE NO NEW REGIONS NUMBERED TODAY AND THE REST OF THE SOLAR DISK REMAINS QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW TO MODERATE FOR THE ENTIRE FORECAST PERIOD AS FURTHER ENERGETIC ACTIVITY IS ANTICIPATED FROM REGION 4717.

II. GEOPHYSICAL ACTIVITY SUMMARY FROM 04/2100Z TO 05/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED FOR THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE DURING THE ENTIRE FORECAST PERIOD.

III. EVENT PROBABILITIES 06 MAR-08 MAR

CLASS M 50/50/50

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 MAR 092

PREDICTED 06 MAR-08 MAR 092/092/091

90 DAY MEAN 05 MAR 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 MAR 006/010

ESTIMATED AFR/AP 05 MAR 008/012

PREDICTED AFR/AP 06 MAR-08 MAR 010/020-010/020-015/020

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