

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 03/06/86 00:00:00

: 03/06/86 23:59:00

03/06 22:00

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HFUS3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 065

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 06 MAR 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/2100 TO 06/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. REGION 4717 (N01E00) HAS CONTINUED TO PRODUCE B AND C CLASS X-RAY FLARES. THIS DSI BETA-GAMMA (MOUNT WILSON OBSERVATORY SAYS BETA-GAMMA-DELTA) GROUP, WHILE SHOWING SIGNS OF FURTHER DECAY, HAD A C4 X-RAY EVENT AT 1628 UT (MAX 1703 UT) WITH ASSOCIATED PROTONS AT GREATER THAN THE 10MEV LEVEL. IT ALSO HAD RADIO BURST ACROSS SEVERAL DISCRETE FREQUENCIES. THE PROTON ENHANCEMENT EXCEEDED EVENT THRESHOLD AT 1835 UT. THIS PROTON EVENT IS STILL IN PROGRESS AT REPORT TIME. SO FAR THE MAXIMUM PARTICLE ENHANCEMENT HAS BEEN 21P/CM2-STER-S. THE REMAINDER OF THE DISK AND LIMBS ARE QUIET AND STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE FOR THE ENTIRE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 05/2100Z TO 06/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT MINOR STORM TO ACTIVE LEVELS FOR THE PAST 24 HOURS. THE SUDDEN ENHANCEMENT OF THE FIELD AT 0000 UT IS BELIEVED TO BE ASSOCIATED WITH A FILAMENT THAT DISAPPEARED (13 DEGREES N02E24) ON 3 MARCH.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY ACTIVE FOR THE NEXT THREE DAYS WITH MINOR STORM CONDITIONS POSSIBLE ON 7 AND 9 MARCH. THE FORECAST IS DUE TO A COMBINATION OF RECURRENCE, CONTINUED ENERGETIC ACTIVITY FROM REGION 4717, AND A DISAPPEARING FILAMENT (11 DEGREES S07W01) THAT OCCURRED BETWEEN 0000 AND 1545 UT TODAY.

III. EVENT PROBABILITIES 07 MAR-09 MAR

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 05/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 MAR 092

PREDICTED 07 MAR-09 MAR 091/090/090

90 DAY MEAN 06 MAR 079

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 MAR 007/011

ESTIMATED AFR/AP 06 MAR 021/032

PREDICTED AFR/AP 07 MAR-09 MAR 018/030-015/025-025/040

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