

FUS 3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 122

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 MAY 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100 TO 02/2100Z: SOLAR ACTIVITY HAS REMAINED MODERATE. REGION 4154 (S15W56) PRODUCED AN M2/1B PARALLEL RIBBON FLARE AT 2310Z (MAX). THE FLARE OCCURRED ALONG THE NEUTRAL LINE AND NORTH OF THE TRAILER SPOT. ONLY MINOR RADIO BURSTS WERE RECORDED.

ADDITIONAL FLARES IN REGION 4154 WILL DEPEND ON THE ACTIVATION OF ITS NEUTRAL LINE FILAMENT. REGION 4165 (S09E30) HAS SHOWN DECAY, PRIMARILY IN ITS LEADER STRUCTURE, AND HAS CONTRIBUTED ONLY MINOR FLARES. REGION 4157 (S03W40) IS HAVING A STRONG RESURGENCE IN SUNSPOT GROWTH TODAY. A DELTA CONFIGURATION CURRENTLY EXISTS WITH A BRIGHT H-ALPHA PLAGE. FREQUENT FLARES ARE OCCURRING SINCE 0900Z. THE LARGEST FLARE WAS A C9/1B AT 1834Z (MAX). SOME SPOT GROWTH IS ALSO OCCURRING IN REGION 4160 (N19W62).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE WITH INTERMITTENT CLASS M FLARES FROM REGIONS 4157, 4165, AND 4154.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z: THE FIELD HAS VARIED FROM UNSETTLED TO ACTIVE CONDITIONS. HIGH LATITUDES HAVE EXPERIENCED STORM LEVELS SINCE 1630Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: ACTIVE CONDITIONS ARE EXPECTED TO CONTINUE THROUGH THE FORECAST PERIOD BUT WITH INTERMITTENT PERIODS AT STORM LEVEL.

III. EVENT PROBABILITIES 03 MAY-05 MAY

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 MAY 143

PREDICTED 03 MAY-05 MAY 140/134/123

90 DAY MEAN 02 MAY 120

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 MAY 021/026

ESTIMATED AFR/AP 02 MAY 015/025

PREDICTED AFR/AP 03 MAY-05 MAY 025/030-020/030-028/025

SOLTERWARN

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