

FUS 3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 094

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 04 APR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/2100 TO 04/2100Z: SOLAR ACTIVITY HAS REMAINED LOW. THE LARGEST EVENT WAS A C3/SB IN REGION 4127 (S16W44) AT 1640Z. THIS FLARE OCCURRED IN THE VICINITY OF THE DELTA CONFIGURATION AND HAD BURSTS OF 730 FU AT 245 MHZ AND 110 FU AT 2695 MHZ. AN EMBEDDED FILAMENT IS INTERMITTENTLY ACTIVE; IT TENDS TO DISAPPEAR WITH THE FLARES BUT SUBSEQUENTLY REFORMS. THE FILAMENT MAY BE THE TRIGGER MECHANISM FOR THE FLARES IN REGION 4127. REGION 4135 (S11E46) CURRENTLY APPEARS TO HAVE STABILIZED ITS GROWTH BUT PLAGE FLUCTUATIONS CONTINUE. REGION 4136 (S12W31) HAS REPOSITIONED ITSELF FROM ITS EMERGENCE POINT OF YESTERDAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. THERE IS A SLIGHT CHANCE FOR A CLASS M FLARE FROM REGION 4127.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 03/2100Z TO 04/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO SLIGHTLY ACTIVE DURING THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: SIMILAR CONDITIONS ARE EXPECTED TO CONTINUE UNTIL THE LATTER HALF OF 06 APRIL WHEN THE EARTH SHOULD COME UNDER THE INFLUENCE OF THE HIGH SPEED STREAM FROM A LARGE CORONAL HOLE. THE FIELD SHOULD THEN REACH STRONG ACTIVE TO MINOR STORM LEVELS WITH THE STRONGEST RESPONSES EXPECTED TO OCCUR ON 07 APRIL.

III. EVENT PROBABILITIES 05 APR-07 APR

CLASS M 10/10/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 APR 101

PREDICTED 05 APR-07 APR 100/099/097

90 DAY MEAN 04 APR 127

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 APR 015/015

ESTIMATED AFR/AP 04 APR 013/015

PREDICTED AFR/AP 05 APR-07 APR 012/015-017/020-035/025

SOLTERWARN

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