

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 UNSETTLED 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

BT