

FUS 3 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 116

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 26 APR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/2100 TO 26/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 4156 (S17E20) PRODUCED SEVERAL CLASS C FLARES. THIS REGION CONTINUES TO GROW SLOWLY AND A SMALL DELTA HAS FORMED. SOME ROTATION OF THE LARGE SPOT IN THIS GROUP HAS ALSO BEEN REPORTED. REGION 4150 (S12W23) HAS ALSO PRODUCED SEVERAL CLASS C EVENTS BUT HAS BEGUN TO DECAY. REGION 4157 (S04E45) IS A SMALL CLASS E GROUP WITH MIXED POLARITIES MAKING FOR A BETA GAMMA CONFIGURATION. DECAY IS OCCURRING IN 4154 (S12E16) AND THE WEAK DELTA WHICH WAS REPORTED YESTERDAY HAS FADED. SMALL EMERGING REGION 4161 (S14E56) WAS NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE GENERALLY LOW FOR THE NEXT THREE DAYS. INFREQUENT CLASS M FLARES ARE POSSIBLE FROM REGIONS 4156, 4154, 4157, AND 4150. NO SIGNIFICANT ACTIVE REGIONS ARE DUE TO RETURN DURING THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 25/2100Z TO 26/2100Z: THE GEOMAGNETIC FIELD WAS AT MINOR STORM LEVELS DURING LOCAL NIGHTTIMES, BECOMING GENERALLY ACTIVE DURING DAYLIGHT HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD CONTINUE AT ACTIVE TO MINOR STORM LEVELS INTO 28 APR. ANTISOLAR AREAS OF THE EARTH SHOULD CONTINUE TO EXPERIENCE STRONG SUBSTORM ACTIVITY DURING THEIR NIGHTTIME. MID LATITUDE STATIONS SHOULD BEGIN TO EXPERIENCE GENERALLY UNSETTLED GEOMAGNETIC CONDITIONS ON 29 APR WITH HIGH LATITUDE SITES REMAINING ACTIVE.

III. EVENT PROBABILITIES 27 APR-29 APR

CLASS M 30/30/30

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 APR 145

PREDICTED 27 APR-29 APR 144/142/140

90 DAY MEAN 26 APR 121

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 APR 025/034

ESTIMATED AFR/AP 26 APR 025/037

PREDICTED AFR/AP 27 APR-29 APR 020/025-018/020-014/025

SOLTERWARN

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