

HFUS3 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 120

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 30 APR 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/2100 TO 30/2100Z: SOLAR ACTIVITY WAS AT A VERY LOW LEVEL DURING THE PAST 24 HOURS. REGION 4647 (N05W65) HAS BEEN GENERALLY QUIET BUT HAS NOT LOST ITS THREATENING APPEARANCE. THE NUMBER OF SPOTS HAS DECLINED BUT THE AREA HAS ACTUALLY INCREASED SINCE YESTERDAY. THE DELTA MAGNETIC CONFIGURATION REMAINS. THE SMALL SPOT NEAR N05E19 YESTERDAY IS NO LONGER VISIBLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL BUT THE SIZE AND COMPLEXITY OF 4647 WARRANTS CONSIDERATION FOR THE POSSIBILITY OF AN ENERGETIC EVENT.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 29/2100Z TO 30/2100Z: THE GEOMAGNETIC FIELD WAS AT UNSETTLED TO ACTIVE LEVELS UNTIL 300911UT WHEN A SUDDEN COMMENCEMENT WAS OBSERVED. THE SUDDEN COMMENCEMENT WAS FOLLOWED BY MAJOR STORM CONDITIONS FOR THE INTERVAL 12-15UT. THE FIELD HAS BEEN UNSETTLED SINCE THAT TIME.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REACH MINOR STORM LEVELS IN NIGHTTIME SECTORS DURING THE NEXT 48 HOURS WITH UNSETTLED CONDITIONS IN DAYLIGHT SECTORS. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED ON THE THIRD DAY.

III. EVENT PROBABILITIES 01 MAY-03 MAY

CLASS M 25/25/25

CLASS X 15/15/15

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 APR 080

PREDICTED 01 MAY-03 MAY 077/074/071

90 DAY MEAN 30 APR 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 APR 015/027

ESTIMATED AFR/AP 30 APR 021/020

PREDICTED AFR/AP 01 MAY-03 MAY 017/020-013/020-011/015

SOLTERWARN

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