

HFUS 1 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 132

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 11 MAY 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE WITH NUMEROUS SMALL RADIO AND X-RAY BURSTS BEING OBSERVED. MANY OBSERVATORIES HAVE BEEN HAMPERED BY WEATHER CONDITIONS BUT RAMEY OBSERVATIONS HAVE BEEN CONTINUOUS AND REVEAL THAT MOST OF THE ACTIVITY IN THE PAST 10 TO 12 HOURS HAS COME FROM REGION 2438 (S16E20). THIS REGION IS NOW A DELTA MAGNETIC CONFIGURATION AND SOME ROTATION IN THE LEADER SPOTS IS SUSPECTED. THE NEUTRAL LINE REMAINS QUITE COMPLEX WITH POINT BRIGHTENINGS AND FLARE FLUCTUATIONS OCCURRING FREQUENTLY. REGION 2418 (S19W73) IS ALSO DYNAMIC AS FLARE FLUCTUATIONS AND OCCASIONAL FLARE ACTIVITY CONTINUES TO BE REPORTED. TWO NEW REGIONS WERE NUMBERED TODAY: 2449 (S12W42) AND 2450 (S22E55). REGION 2450 MAY OFFER POTENTIAL FOR SIGNIFICANT ACTIVITY IF IT CONTINUES TO DEVELOP.

IB. SOLAR ACTIVITY SHOULD REMAIN AT MODERATE LEVELS AS A RESULT OF THE BEHAVIOR OF REGIONS 2418 AND 2438.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE. LITTLE OR NO CHANGE IS EXPECTED FOR THE NEXT 15 TO 18 HOURS AND THEN CONDITIONS SHOULD BE GENERALLY UNSETTLED.

III. EVENT PROBABILITIES 12 MAY - 14 MAY

CLASS M 80/80/80

CLASS X 10/10/10

PROTON 05/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 MAY 189

PREDICTED 12-14 MAY 187/186/188

30-DAY MEAN 11 MAY 190

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 10 MAY 10

ESTIMATED AFR/AP 11 MAY 18/18

PREDICTED AFR/AP 12-14 MAY 15/20 - 11/12 - 09/08

SOLTERWARN

BT