

HFUS 1 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 140

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 19 MAY 1980

IA. SOLAR ACTIVITY HAS REMAINED LOW TO MODERATE. THERE ARE 16 SPOT GROUPS ON THE DISK AND CLASS C/SUBFLARES HAVE BEEN OBSERVED IN EIGHT OF THESE REGIONS. REGION 2452 (S08W32) PRODUCED A C5 / 1N EVENT AT 0538 UT WITH AN ASSOCIATED MINOR RADIO BURST. THIS REGION STILL CONTAINS AN E-TYPE SPOT GROUP WITH A WEAK DELTA CONFIGURATION BUT HAS REMAINED STABLE TODAY. REGION 2456 (S12E08) ALSO CONTAINS A DELTA CONFIGURATION IN AN E-TYPE SPOT GROUP. THIS REGION IS GROWING AND PRODUCED TWO SUBFLARES. REGION 2464 HAS BEEN DIVIDED INTO TWO SPOT GROUPS - REGION 2464 (S23E60) AND 2468 (S21E60). A NEW REGION 2471 (S12E19) HAS DEVELOPED IN THE PLAGE STRUCTURE TRAILING REGION 2456. NEW REGIONS 2470 (S21E83) AND 2469 (S12E80) ROTATED ONTO THE DISK BUT ONLY LARGE LEADER SPOTS ARE VISIBLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST PERIOD. CLASS M ACTIVITY IS POSSIBLE FROM REGIONS 2452 AND 2456. SEVERAL OTHER REGIONS SHOW POTENTIAL FOR GROWTH. REGIONS 2469 AND 2470 MAY BECOME ACTIVE AS THEY ROTATE ONTO THE DISK.

II. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETLED THE PAST 24 HOURS. IT IS EXPECTED TO REMAIN UNSETLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 20 MAY - 22 MAY

CLASS M 80/80/80

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 MAY 229

PREDICTED 20-22 MAY 234/236/238

90-DAY MEAN 19 MAY 190

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 MAY 05

ESTIMATED AFR/AP 19 MAY 08/11

PREDICTED AFR/AP 20-22 MAY 07/07 - 07/08 - 10/09

SOLTERWARN

BT