

HFUS 1 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 133

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 13 MAY 1979

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. THE STRONGEST X-RAY BURST (A CLASS C4 BURST) CAME FROM REGION 1729 (S19W25) AT 0228Z. FIVE OF THE FIFTEEN GROUPS CURRENTLY VISIBLE ON THE DISK PRODUCED ONE OR TWO SMALL C-CLASS SUBFLARES. REGION 1734 (N09W35) STILL CONTAINS A WEAK DELTA CONFIGURATION AND ALTHOUGH QUIET, HAS THE BEST ENERGETIC FLARE POTENTIAL. NEXT IN POTENTIAL ARE REGIONS 1729 AND 1743 (N15W02) WHICH HAVE MIXED MAGNETIC POLARITIES BUT RELATIVELY LOW GRADIENTS. FINALLY, REGION 1740 (N15E24) HAS AN AWKWARD APPEARANCE IN WHITE LIGHT AND COULD DEVELOP ENERGETIC FLARE POTENTIAL WITH CONTINUED GROWTH. NO MAJOR REGIONS ARE DUE BACK AT THE EAST LIMB DURING THE FORECAST PERIOD.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN GENERALLY LOW. HOWEVER, THE POSSIBILITY OF AN ISOLATED MAJOR FLARE FROM REGION 1734 SHOULD NOT BE IGNORED.

II. THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETTLED DURING THE PAST 24 HOURS. THE MAGNETIC FIELD IS EXPECTED TO BECOME GRADUALLY QUIETER OVER THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 14 MAY - 16 MAY 1979

CLASS M 40/45/50

CLASS X 05/05/05

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 MAY 182

PREDICTED 14-16 MAY 183/182/182

90-DAY MEAN 13 MAY 186

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 12 MAY 10

ESTIMATED AFR/AP 13 MAY 09/10

PREDICTED AFR/AP 14-16 MAY 08/10 - 06/08 - 06/08

SOLTERWARN.

BT