

HFUS 1 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO.

SDF NUMBER 148

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 27 MAY 1980

IA. SOLAR ACTIVITY HAS BEEN RELATIVELY LOW DURING THE PAST 24 HOURS. ONLY A FEW C-CLASS SUBFLARES WERE NOTED DURING THE PERIOD. THE BEST OF THESE A C6/SB FROM REGION 2474 (S16W03). REGION 2474 IS UNIMPRESSIVE LOOKING IN H-ALPHA AND WHITE LIGHT BUT CONTAINS A FAIRLY STRONG MAGNETIC GRADIENT. REGIONS 2466 (S07W33), 2469 (S11W25) AND 2470 (S19W22) HAVE ALL SIMPLIFIED SLIGHTLY, ALTHOUGH REGION 2470 HAS PARTICIPATED IN THE SUBFLARE PRODUCTION TODAY. REGION 2478 (S11E42) HAS BEEN QUIET.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW TO MODERATE. THE REGION 2466/2469/2470 COMPLEX, WHICH LOOKED AWESOME SEVERAL DAYS AGO, CANNOT BE COMPLETELY DISCOUNTED YET. A MAJOR FLARE IS STILL POSSIBLE FROM THE COMPLEX, ALTHOUGH NOT LIKELY. REGION 2478 HAS SHOWN ITSELF TO HAVE SOME ENERGETIC FLARE POTENTIAL AND SHOULD THEREFORE PRODUCE SOME MODERATELY ENERGETIC FLARES DURING ITS DISK PASSAGE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE QUIET TO MILDLY UNSETLED FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 28 MAY - 30 MAY

CLASS M 55/50/45

CLASS X 15/15/10

PROTON 15/15/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 MAY 276

PREDICTED 28-30 MAY 270/266/260

90-DAY MEAN 27 MAY 199

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 26 MAY 09

ESTIMATED AFR/AP 27 MAY 04/07

PREDICTED AFR/AP 28-30 MAY 07/08 - 07/08 - 07/08

SOLTERWARN

BT