

HFUS 1 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 147

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 26 MAY 1980

IA. SOLAR ACTIVITY HAS BEEN RELATIVELY LOW DURING THE PAST 24 HOURS. NO M-CLASS FLARES WERE OBSERVED BUT C-CLASS SUBFLARES WERE NOTED IN REGION 2469 (S11W12), REGION 2470 (S19W09) AND REGION 2478 (S11E55) PREDOMINATELY. REGIONS 2469 AND 2470 MAINTAIN THEIR FRIGHTENING APPEARANCE IN WHITE LIGHT BUT THEIR FAILURE TO PRODUCE X-RAYS INDICATES THEY ARE LESS THREATENING THAN BELIEVED EARLIER. MT. WILSON OBSERVATIONS CONFIRM THAT WHILE MAGNETIC FIELD STRENGTHS ARE HIGH IN THE REGIONS, THEIR CONFIGURATIONS ARE RELATIVELY SIMPLE AND GRADIENTS ARE NOT VERY STEEP. REGION 2478 APPEARS TO HAVE GROWN SLIGHTLY SINCE YESTERDAY.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE THROUGH THE FORECAST PERIOD. REGION 2478 SEEMS TO PROMISE MORE X-RAY ACTIVITY THAN EITHER REGION 2469 OR REGION 2470. MAGNETIC STRENGTH ALONE IS NOT ENOUGH TO CAUSE MAJOR FLARES, REGIONS MUST ALSO BE STRAINED AND UNSTABLE.

II. THE GEOMAGNETIC STORM SEEN ON 25 MAY ENDED GRADUALLY AND THE PAST 24 HOURS HAVE BEEN ONLY MILDLY UNSETTLED. THE FIELD IS EXPECTED TO BE MILDLY UNSETTLED FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 27 MAY - 29 MAY

CLASS M 70/65/60

CLASS X 15/15/15

PROTON 10/15/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 MAY 277

PREDICTED 27-29 MAY 273/269/266

90-DAY MEAN 26 MAY 198

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 MAY 28

ESTIMATED AFR/AP 26 MAY 08/10

PREDICTED AFR/AP 27-29 MAY 07/08 - 09/08 - 09/08

SOLTERWARN

BT