

HFUS 3 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO.

SDF NUMBER 129

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 08 MAY 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/2100 TO 08/2100Z: SOLAR ACTIVITY HAS CONTINUED LOW. THE LARGEST EVENT WAS A C6/SB FROM REGION 4481 (N08E50) AT 0152Z (X-RAY MAX). ONLY MINOR DISCRETE RADIO BURSTS ACCOMPANIED THIS FLARE. MT WILSON MAGNETIC DATA SHOWS A DELTA IN THE LEADER PENUMbra WITH WEAK GRADIENT AND ANOTHER DELTA IN THE EASTERN PORTION OF THE TRAILER WITH MODERATE GRADIENT. THE PLAGE IS MOST ENHANCED IN THE VICINITY OF THIS TRAILER DELTA. REGION 4482 (S10W70) HAS EMERGED DURING THE PAST 24 HOURS. A FILAMENT SEGMENT FROM S20E42 TO S18E13 DISRUPTED BETWEEN 07/1430-1630Z. A COMPANION SEGMENT FROM S13W00 TO S08W13 DISAPPEARED DURING THE EARLY HOURS OF 08 MAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. OCCASIONAL CLASS M FLARES ARE EXPECTED FROM REGION 4481.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 07/2100Z TO 08/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE UNTIL 11 MAY WHEN THE FIELD IS EXPECTED TO REACH ACTIVE TO STORM LEVELS IN RESPONSE TO THE FILAMENT DISRUPTIONS.

III. EVENT PROBABILITIES 09 MAY-11 MAY

CLASS M 80/80/80

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 MAY 120

PREDICTED 09 MAY-11 MAY 123/125/127

90 DAY MEAN 08 MAY 130

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 MAY 004/008

ESTIMATED AFR/AP 08 MAY 008/010

PREDICTED AFR/AP 09 MAY-11 MAY 015/020-015/015-020/040

SOLTERWARN

RT