

HFUS3 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 141

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 21 MAY 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100 TO 21/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4656 (N07E16) HAS BEEN THE SOLE FLARE SOURCE TODAY, PRODUCING AT A RATE OF ROUGHLY ONE EVERY FOUR HOURS. THE MOST ENERGETIC EVENT OBSERVED WAS A C3/0B, WITH MAXIMUM AT 0955Z. ASSOCIATED WITH THIS FLARE WAS A RADIO BURST OF 2200 F.U. AT 245 MHZ AND LESS SIGNIFICANT BURSTS UP TO 8800 MHZ. FILAMENT ACTIVITY CONTINUES IN THE REGION PROPER, AND MAGNETICALLY IT REMAINS SOMEWHAT COMPLEX. REGION 4655 (S08W08) HAS BEEN QUIET AND STABLE. A SINGLE SPOT WAS REPORTED EARLIER NEAR N02W71, BUT MAY HAVE SINCE DISAPPEARED. NO NEW REGIONS WERE ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: THE POTENTIAL EXISTS FOR AN ISOLATED M-CLASS EVENT FROM REGION 4656 BEFORE IT MAKES WEST LIMB PASSAGE ON MAY 29-30. HOWEVER, THE MOST LIKELY OCCURRENCE IS FOR CONTINUED C-CLASS ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 20/2100Z TO 21/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT QUIET TO MILDLY UNSETTLED LEVELS THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: PREDOMINANTLY UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT THREE DAYS WITH A TENDENCY TOWARD ACTIVE LEVELS BY THE END OF THE PERIOD.

A CORONAL HOLE LOCATED NEAR CENTRAL MERIDIAN MAY FOSTER THE INCREASE IN ACTIVITY EXPECTED ON MAY 24.

III. EVENT PROBABILITIES 22 MAY-24 MAY

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 MAY 083

PREDICTED 22 MAY-24 MAY 082/081/080

90 DAY MEAN 21 MAY 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 MAY 005/011

ESTIMATED AFR/AP 21 MAY 005/011

PREDICTED AFR/AP 22 MAY-24 MAY 010/015-010/015-015/020

SOLTERWARN

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