

HFUS 3 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 082

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 22 MAR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/2100 TO 22/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. AN IMPULSIVE, SHORT-LIVED C8 X-RAY FLARE BEGAN AT 0848Z. THIS WAS FOLLOWED BY LOOPS AT NW09 BEGINNING AT 0859Z. MINOR DISCRETE BURSTS AT CORONAL FREQUENCIES AND DEKAMETRIC CONTINUUM WERE RECORDED WITH THIS EVENT. NO ASSIGNED ACTIVE REGION DEPARTED IN THAT POSITION; HOWEVER, A SMALL PLAGE AREA WAS APPROACHING THE LIMB THERE YESTERDAY. AN IMPULSIVE SHORT-LIVED M1 X-RAY FLARE BEGAN AT 1515Z. NO OPTICAL CORRELATION AND NO RADIO BURSTS WERE RECORDED WITH THIS EVENT. REGION 4450 (N09E06) PRODUCED A C8/1B BEGINNING AT 1603Z. MINOR RADIO BURSTS WERE RECORDED WITH THIS FLARE FROM 245 MHZ THROUGH 15400 MHZ. MOST OF THE FLARES TODAY OCCURRED IN REGIONS 4450 AND 4449 (S14E40). ALL DISK REGIONS TODAY ARE SIMPLE IN MAGNETIC STRUCTURE AND NO NEW REGIONS WERE ASSIGNED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGIONS 4449 AND 4450 MAY PRODUCE ISOLATED CLASS M FLARES.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 21/2100Z TO 22/2100Z: THE GEOMAGNETIC FIELD WAS ACTIVE AT MID LATITUDES AND AT MINOR STORM LEVELS AT HIGH LATITUDES FROM 0000-0900Z. THE FIELD WAS UNSETTLED THE BALANCE OF THE PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE FIELD IS EXPECTED TO BE UNSETTLED ON 23 MARCH AND GENERALLY ACTIVE ON 24-25 MARCH.

III. EVENT PROBABILITIES 23 MAR-25 MAR

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 MAR 124

PREDICTED 23 MAR-25 MAR 124/122/120

90 DAY MEAN 22 MAR 122

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 21 MAR 005/010

ESTIMATED AFR/AP 22 MAR 016/015

PREDICTED AFR/AP 23 MAR-25 MAR 010/015-015/025-015/025

SOLTERWARN

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