

HFUS 3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 123

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 02 MAY 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100  
TO 02/2100Z: SOLAR ACTIVITY WAS MODERATE. REGION 4474 (S13W59)  
PRODUCED ONE M2/0B EVENT AT 2/1927Z WITH 560 SFU AT 245MHZ; ONE  
C7/0B EVENT AT 2/1619Z AND A FEW LOW-LEVEL C-CLASS X-RAY EVENTS  
WITH SUB-FLARES EARLIER, BUT NO SIGNIFICANT ASSOCIATED RADIO  
BURSTS. IT CONTINUED TO DECAY IN AREA AND LONGITUDENAL EXTENT.  
IT HAD ONE MAGNETIC DELTA POINT REMAINING IN ITS CENTRAL  
PORTION, AND ITS SPOT NUMBER INCREASED SLIGHTLY. A RECENT  
BRIGHT SURGE WAS REPORTED. REGION 4476 (S12W33) PRODUCED ONE  
LOW LEVEL C-CLASS X-RAY WITH SUB-FLARE, AND HAD ACTIVE DARK  
FILAMENTS. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
MODERATE. REGION 4474 PROVIDES A GOOD CHANCE OF MODERATE LEVELS  
AND A VERY SLIGHT CHANCE OF HIGH LEVELS. RETURNING REGION 4471  
(N04, CAR-153) PRODUCED FOUR M-LEVEL X-RAY EVENTS AND FOUR  
IMPORTANCE ONE FLARES LAST ROTATION. IT IS EXPECTED AT 5/2200Z  
AND SHOULD COMPENSATE FOR REGION 4474 NEARING THE WEST LIMB AS  
FAR AS ACCUMULATIVE PROBABILITIES CONTINUING AT THE LOW TO  
MODERATE LEVEL THROUGHOUT THE PERIOD AND OUTLOOK.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z:  
GEOMAGNETIC ACTIVITY WAS ACTIVE. THE 10 MEV PROTON EVENT ENDED  
AT 2/0855Z. A MAXIMUM OF 15 P/CM2/SEC/STER AT 2/0140Z WAS  
OBSERVED AT SATELLITE ALTITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS  
EXPECTED TO BE UNSETTLED-TO-ACTIVE THROUGHOUT THE FIRST AND  
SECOND DAYS (3-4 MAY). ACTIVE-TO-MINOR STORM LEVELS ARE  
EXPECTED ON THE THIRD DAY (5 MAY), IN ACCORDANCE WITH  
HISTORICALLY ACTIVE CARRINGTON LONGITUDES. STORM LEVELS ARE  
EXPECTED AT HIGH LATITUDES FROM 5 MAY UNTIL 7 MAY.

III. EVENT PROBABILITIES 03 MAY-05 MAY

CLASS M	60/50/50
CLASS X	05/05/05
PROTON	05/05/05
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	02 MAY	142
PREDICTED	03 MAY-05 MAY	134/127/120
90 DAY MEAN	02 MAY	130

V. GEOMAGNETIC A INDICES

OBSERVED	AFR/AP 01 MAY	020/027
ESTIMATED	AFR/AP 02 MAY	015/020
PREDICTED	AFR/AP 03 MAY-05 MAY	010/015-010/015-020/025

SOLTERWARN

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