

HFUS3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 176

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 JUN 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100 TO 24/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4520 (S14W15) PRODUCED SUB-FLARES WITHOUT SIGNIFICANT X-RAY NOR RADIO EVENTS. IT CONTINUED TO INCREASE SLIGHTLY IN WHITE-LIGHT AREA, LONGITUDINAL EXTENT, AND SPOT NUMBER; AND ALSO EVOLVED INTO A DHO CLASSIFICATION. NEWLY NUMBERED REGION 4522 (S15E29) WAS AN EVOLVING BETA-TYPE WITH FOUR SPOTS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. REGION 4520 PROVIDES A VERY SLIGHT CHANCE OF MODERATE LEVELS, AS WELL AS NEWLY EVOLVING REGION 4522. REGION 4520'S GROWTH IS EXPECTED TO SLOW AND THE ASSOCIATED ACTIVITY TO LESSEN; IN AN OPPOSITE TREND TO RAPIDLY GROWING REGION 4522'S POTENTIAL.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: GEOMAGNETIC ACTIVITY WAS AT ACTIVE TO MINOR STORM LEVELS. A GRADUAL STORM COMMENCEMENT AT 24/0200Z WAS ATTRIBUTED TO THE DISAPPEARING FILAMENT OF 21 JUNE. MAJOR LEVELS WERE REPORTED AT HIGH LATITUDES FROM 24/0000 THROUGH 24/1630Z. MINOR LEVELS WERE REPORTED AT MID-LATITUDES FROM 24/0300 UNTIL 24/0600Z. MINOR LEVELS CONTINUED THROUGHOUT THE PERIOD AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE ACTIVE. BRIEF STORM LEVELS AT HIGH LATITUDES SHOULD DIMINISH BY 25/2100Z. THIS INITIAL ACTIVITY IS THE FINISH OF THE DISTURBANCE THAT STARTED 24/0200Z (CAUSED BY THE FILAMENT DISAPPEARANCE 21 JUNE).

III. EVENT PROBABILITIES 25 JUN-27 JUN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 JUN 100

PREDICTED 25 JUN-27 JUN 098/095/094

90 DAY MEAN 24 JUN 122

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 JUN 011/013

ESTIMATED AFR/AP 24 JUN 017/030

PREDICTED AFR/AP 25 JUN-27 JUN 016/020-016/015-013/010

SOLTERWARN

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