

HFUSC BOU 082200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 252

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 08 SEP 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/2100Z TO 08/2100Z: SOLAR ACTIVITY WAS VERY LOW. NEWLY ASSIGNED REGION 4576 (S04E42, CAR-334) PRODUCED A FEW SUB-FLARES; THE LARGEST AT 08/1313Z WAS A BS/ON. IT HAD GROWN RAPIDLY IN WHITE-LIGHT SIZE, SPOT NUMBER, AND CLASSIFICATION IN AN AREA THAT WAS WITHOUT ANY SPOTTED REGION LAST ROTATION. IN ADDITION TO THE SUB-FLARES, IT ALSO SUPPORTED AN ARCHED FILAMENT SYSTEM MUCH OF THE PERIOD. REGION 4575 (N11W93, CAR-108) PRODUCED FREQUENT SURGES AS IT ROTATED AROUND THE LIME. A TWO DEGREE LONG FILAMENT DISAPPEARED FROM REGION 4571 (N01W16, CAR-031) AT 08/0134Z. A VERY SLIGHT X-RAY ENHANCEMENT COINCIDED WITH THE DISAPPEARANCE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4576 PROVIDES THE BEST CHANCE OF ACTIVITY WITH A 40 PER CENT PROBABILITY OF C-LEVEL X-RAY EVENTS. RETURNING REGION 4566 (S14, CAR-271) PRODUCED THREE SUB-FLARES LAST ROTATION AND SHOULD REAPPEAR AT 10/0000Z. REGION 4564 (S09, CAR-244) PRODUCED NOTHING SIGNIFICANT LAST CYCLE AND IT IS PREDICTED TO RETURN AT 11/2400Z.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 07/2100Z TO 08/2100Z: GEOMAGNETIC ACTIVITY WAS AT UNSETTLED TO ACTIVE LEVELS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT ACTIVE TO UNSETTLED LEVELS. OCCASIONAL MINOR STORM LEVELS AT HIGH LATITUDES DURING NIGHT-TIME PERIODS ARE POSSIBLE. THIS SLIGHT ENHANCEMENT OVER RECURRENT UNSETTLED LEVELS IS EXPECTED DUE TO MINOR DISAPPEARING FILAMENTS DURING THE PAST DAYS.

III. EVENT PROBABILITIES 09 SEP-11 SEP

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 SEP 082

PREDICTED 09 SEP-11 SEP 081/079/077

90 DAY MEAN 08 SEP 090

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 SEP 007/011

ESTIMATED AFR/AP 08 SEP 014/012

PREDICTED AFR/AP 09 SEP-11 SEP 016/015-017/020-016/025

SOLTERWARN

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