

HFU53 00U 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 07/2100  
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 B5/0N. 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 LIMB. 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 016/015-017/020-018/025

SOLTERWARN

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