

HFUS 1 ROU 241300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 353A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 24 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
23/1200Z TO 24/1200Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY 100  
TO MID CLASS C FLARES BEING OBSERVED. WEATHER HAS LIMITED  
PATROL AND DATA GATHERING. REGION 4033 (S15W47) HAS EXHIBITED  
SOME SLIGHT GROWTH AND A WEAK BETA GAMMA MAGNETIC CONFIGURATION  
REMAINS. NEW REGION 4039 (S14W58) IS VISIBLE AS A MODERATELY  
LARGE CLASS H LEADER SUNSPOT WITH NO TRAILERS AS YET SEEN.  
THESE REGIONS DO NOT APPEAR AS POTENT AS THEY DID AT THEIR LAST  
WEST LIMB TRANSIT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE AT  
A GENERALLY LOW LEVEL. THE POSSIBILITY OF AN ISOLATED CLASS M  
FLARE FROM REGION 4033 EXISTS. PREVIOUSLY ACTIVE AND EMERGING  
LONGITUDES ARE EXPECTED TO RETURN TO THE EAST LIME DURING THE  
FORECAST PERIOD WHICH COULD ELEVATE ACTIVITY LEVELS SLIGHTLY,  
BUT A SIGNIFICANT DEVIATION FROM CURRENT LEVELS IS NOT  
FORESEEN.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN ACTIVE, AGAIN CONSISTING OF INTERMITTENT SUBSTORM ACTIVITY  
SUPERIMPOSED ON UNSETTLED CONDITIONS. GENERALLY ACTIVE LEVELS  
ARE FORECAST FOR THE NEXT THREE DAYS WITH NEAR MINOR STORM  
LEVELS EXPECTED ON 26 DEC.

III. EVENT PROBABILITIES 25 DEC-27 DEC

CLASS M 45/45/45  
CLASS X 05/05/05  
PROTON 01/01/01  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	23 DEC	166
ESTIMATED	24 DEC	170
PREDICTED	25 DEC-27 DEC	175/180/185
90 DAY MEAN	23 DEC	179

V. GEOMAGNETIC A INDICES

OBSERVED AFR	22 DEC	039	AP 23 DEC	024
ESTIMATED AFR	23 DEC	020	AFR/AP 24 DEC	015/020
PREDICTED AFR/AP	25 DEC-27 DEC	025/025-330/030-015/025		

SOLTERWARN  
BT

HFUS 3 ROU 242200Z

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 353R

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 24 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
24/1200Z TO 24/2100Z: SOLAR ACTIVITY HAS BEEN LOW. THE ONLY  
ACTIVITY OF SIGNIFICANCE THIS PERIOD WAS A C7/SF FLARE WITH AN  
IMPULSIVE DARK SURGE ON THE DISK AND FILAMENT DISAPPEARANCE  
FROM REGION 4033(S15E42) AT 24/1908Z. THE VISIBLE EVENT WAS  
BRIEF BUT THE XRAY EVENT LASTED NEARLY 2.5 HOURS. REGION 4033  
APPEARS CAPABLE OF SIGNIFICANT FURTHER ACTIVITY WHILE REMAINING  
REGIONS APPEAR QUIET AND STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
CONTINUE LOW WITH POSSIBLE ISOLATED M CLASS ACTIVITY IN REGION  
4033.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD  
REMAINS ACTIVE. CONDITIONS ARE EXPECTED TO BE AT MINOR STORM  
LEVELS INTERMITTENTLY DURING THE PERIOD DUE TO RECENT SOLAR  
ACTIVITY.

III. EVENT PROBABILITIES 25 DEC-27 DEC

CLASS M 45/45/45

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 DEC 173

PREDICTED 25 DEC-27 DEC 130/182/185

90 DAY MEAN 24 DEC 179

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 DEC 022/024

ESTIMATED AFR/AP 24 DEC 018/020

PREDICTED AFR/AP 25 DEC-27 DEC 020/025-030/032-015/025

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