

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 1932

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
23/1200Z TO 24/1200Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY LOW  
TO MID CLASS C FLARES BEING OBSERVED. WEATHER HAS LIMITED  
PATROL AND DATA GATHERING. REGION 4033 (S15E47) HAS EXPERIENCED  
SOME SLIGHT GROWTH AND A WEAK BETA GAMMA MAGNETIC CONFIGURATION  
REMAINS. NEW REGION 4039 (S14E58) 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 LIMB 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 013/020  
PREDICTED AFR/AP 25 DEC-27 DEC 025/025-330/030-015/025

SOLTERWARN

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HFUS 3 ROU 242200

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 222/024

ESTIMATED AFR/AP 24 DEC 218/020

PREDICTED AFR/AP 25 DEC-27 DEC 225/225-230/232-215/025

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