

HFUS 1 ROU 241320

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 10 TO MID CLASS C FLARES BEING OBSERVED. WEATHER HAS LIMITED PATROL AND DATA GATHERING. REGION 4033 (S15E47) HAS EXHIBITED SOME SLIGHT GROWTH AND A WEAK BETA GAMMA MAGNETIC CONFIGURATION REMAINS. NEW REGION 4039 (S14F68) IS VISIBLE AS A MODERATELY LARGE CLASS H FLAFTER 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 IMPENDING LONGITUDES ARE EXPECTED TO RETURN TO THE EAST LIME DURING THE FORECAST PERIOD WHICH COULD FLEVATE 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 UNSETLED 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 018/020

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

SOLARFLAREWARN

BT

HFUS 3 BOU 242202
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 24/1900Z. 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 35/05/25

PROTON 21/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 DEC 173

PREDICTED 25 DEC-27 DEC 180/182/185

90 DAY MEAN 24 DEC 179

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 DEC 222/024

ESTIMATED AFR/AP 24 DEC 018/020

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

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