

HFUS 1 BOU 131300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 044A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 13 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
12/1200Z TO 13/1200Z: SOLAR ACTIVITY HAS BEEN VERY LOW THIS
PERIOD. THE LARGEST FLARE WAS XRAY CLASS C1 WITH MAXIMUM TIME
AT 1439Z. THIS FLARE WAS FROM REGION 4079 (S20W91) WHICH HAS
SINCE ROTATED OFF OF THE DISK. REGION 4086 (N03E26), A SMALL
BETA GROUP, IS NOW THE ONLY SPOTTED REGION VISABLE ON THE DISK.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN VERY LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN AT MINOR STORM LEVELS DURING THIS PERIOD. THIS ACTIVITY
IS RELATED TO AN EXTENDED EQUATORIAL CORONAL HOLE. A FILAMENT
LOCATED AT S20W57 AND HAVING AN EXTENT OF 25 DEGREES
DISAPPEARED AT 12/2235Z. THIS DISAPPEARANCE WAS ACCCOMPANIED BY
A SUB FAINT HYDERFLARE. ANALYSIS SHOWS MAGNETIC RESTRUCTURING
IN THE AREA WHERE THE FILAMENT DISAPPEARED. CORONAL HOLE
ACTIVITY IS EXPECTED TO KEEP THE GEOMAGNETIC FIELD AT HIGH
ACTIVE LEVELS ON THE 14TH AND 15TH. THE DISAPPEARING FILAMENT
IS EXPECTED TO CAUSE MINOR STORM CONDITIONS TO RETURN ON THE
16TH.

III. EVENT PROBABILITIES 14 FEB-16 FEB

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 FEB 103

ESTIMATED 13 FEB 098

PREDICTED 14 FEB-16 FEB 100/101/103

90 DAY MEAN 12 FEB 168

V. GEOMAGNETIC A INDICES

OBSERVED AFR 11 FEB 018 AP 12 FEB 026

ESTIMATED AFR 12 FEB 030 AFR/AP 13 FEB 032/034

PREDICTED AFR/AP 14 FEB-16 FEB 020/025-025/025-035/035

EFFECTIVE 15 FEB 83 THIS REPORT WILL NO LONGER BE ISSUED

SOLTERWARN

BT

HFUS 3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 044B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 13 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/1200Z TO 13/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. THERE HAVE BEEN NO OBSERVED EVENTS RECORDED FOR THIS ZULU DAY. DESPITE ALMOST CONTINUOUS OPTICAL MONITORING DURING THE PERIOD, THE SUN HAS ALSO BEEN QUIET IN THE RADIO SPECTRUM WITH NO BURSTS REPORTED. REGION 4086 (N03E15) IS THE ONLY SPOTTED REGION ON THE DISK. A SIMPLE B-TYPE GROUP, WHICH HAS REMAINED UNCHANGED. REGION 4088 (S12E20), A SPOTLESS PLAGE, HAS DISPLAYED MINOR FLUCTUATIONS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN VERY LOW. NO SIGNIFICANT REGIONS ARE EXPECTED TO RETURN DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO OCCASIONAL MINOR STORM LEVELS FOR THE PERIOD. THE MINOR STORM CONDITIONS WERE OBSERVED AT BOULDER BETWEEN 12-15Z WITH A K-INDEX OF 5 REPORTED. CONDITIONS SHOULD BE GENERALLY ACTIVE THROUGH THE NEXT 48 HOURS WITH BRIEF PERIODS AT MINOR STORM DURING THE NIGHT-TIME SECTORS. MINOR STORM LEVELS ARE FORECAST ON THE 16TH, IN RESPONSE TO A DISAPPEARING FILAMENT OBSERVED ON THE 12TH.

III. EVENT PROBABILITIES 14 FEB-16 FEB

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 FEB 098

PREDICTED 14 FEB-16 FEB 095/095/095

90 DAY MEAN 13 FEB 168

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 FEB 032/026

ESTIMATED AFR/AP 13 FEB 030/034

PREDICTED AFR/AP 14 FEB-16 FEB 020/025-020/025-035/035

SOLTERWARN

BT