

HFUS 1 BOU 141300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 045A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 14 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
13/1200Z TO 14/1200Z: SOLAR ACTIVITY HAS REMAINED VERY LOW. THE
ONLY EVENTS RECORDED THIS PERIOD WERE MINOR RADIO BURSTS.
REGION 4086 (N03E15) IS STILL THE ONLY SPOTTED REGION ON THE
DISK. IT IS NOW CLASSIFIED AS A SMALL H TYPE GROUP.

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

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN FLUCTUATING BETWEEN ACTIVE AND MINOR STORM CONDITIONS WITH
THE LATTER DOMINATING THIS PERIOD. A COMBINATION OF AN
ELONGATED EQUATORIAL CORONAL HOLE AND A FILAMENT THAT
DISAPPEARED ON THE 12TH OF FEB ARE EXPECTED TO KEEP MINOR
MAGNETIC STORM CONDITIONS DOMINATING THROUGH THE 16TH. ACTIVE
CONDITIONS WILL THEN PREVAIL STARTING ON THE 17TH OR THE 18TH.

III. EVENT PROBABILITIES 15 FEB-17 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
ESTIMATED 14 FEB 095
PREDICTED 15 FEB-17 FEB 095/095/100
90 DAY MEAN 13 FEB 168

V. GEOMAGNETIC A INDICES

OBSERVED AFR 12 FEB 032 AP 13 FEB 036
ESTIMATED AFR 13 FEB 030 AFR/AP 14 FEB 027/035
PREDICTED AFR/AP 15 FEB-17 FEB 030/035-035/035-035/025
EFFECTIVE 15 FEB 83 THIS REPORT WILL NO LONGER BE ISSUED

SOLTERWARN

BT

HFUS 3 FOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 045B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 14 FEBRUARY 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/1200Z TO 14/2100Z. SOLAR ACTIVITY CONTINUES AT A VERY LOW LEVEL. THERE WERE NO OPTICAL OR RADIO EVENTS OBSERVED DURING THE NINE HOUR PERIOD. THE ONE SPOTTED REGION, 4086 (N03E02), REMAINS A SIMPLE UNI-POLAR TYPE GROUP WITH STABLE PLAGE. NO ACTIVITY HAS BEEN REPORTED AT EAST LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN VERY LOW WITH NO SIGNIFICANT REGIONS EXPECTED TO RETURN DURING THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST NINE HOURS. THE GEOMAGNETIC FIELD SHOULD REMAIN ACTIVE DURING THE NEXT 24 HOURS WITH BRIEF PERIODS AT MINOR STORM LEVELS PROBABLE DURING THE NIGHT-TIME SECTORS (09-15Z FOR WESTERN HEMISPHERE). THE FIELD COULD BE AT MINOR STORM LEVELS FOR THE DURATION OF THE FORECAST PERIOD, IF THE FILAMENT WHICH ERUPTED ON THE 12TH GETS CAUGHT UP IN THE SOLAR WIND.

III. EVENT PROBABILITIES 15 FEBRUARY - 17 FEBRUARY

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 FEBRUARY 094

PREDICTED 15-17 FEBRUARY 090/095/100

90-DAY MEAN 14 FEBRUARY 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 FEBRUARY 29/36

ESTIMATED AFR/AP 14 FEBRUARY 22/27

PREDICTED AFR/AP 15-17 FEBRUARY 20/25 - 35/20 - 35/15

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