

HFUS 1 BOU 081300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 039A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 08 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
07/1200Z TO 08/1200Z: SOLAR ACTIVITY HAS BEEN LOW. VERY SMALL C
CLASS SUBFLARES HAVE OCCURRED IN REGION 4081(S10W19) AND IN
REGION 4077(S17W76). REGION 4077 CONTINUES SLOW DECAY. IT NOW
APPEARS ABOUT HALF AS LARGE IN WHITE LIGHT AS AT MAXIMUM
DEVELOPMENT. REGION 4081 IS A SMALL SIMPLE B CLASS SPOT GROUP.
REGION 4079(S18W31) REMAINS STABLE AS AN E CLASS GROUP OF MORE
THAN 600 MILLIONTHS AND CONTINUES TO APPEAR MAGNETICALLY
SIMPLE. WITH THE POSSIBLE EXCEPTION OF AN UNCONFIRMED SPOT
NEAR THE EAST LIMB REGION 4082(S07W37) IS THE REMAINING REGION
SHOWING SPOTS. A DISTINCT DOWNWARD TREND IN OVERALL ACTIVITY
IS IN PROGRESS. REGION RETURNS SHOULD NOT CONTRIBUTE
SIGNIFICANTLY TO ACTIVITY DURING THE PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE GENERALLY LOW. A MAJOR EVENT MAY STILL BE POSSIBLE IN
REGION 4077 BEFORE LIMB TRANSIT. THERE APPEARS TO BE LITTLE
LIKELYHOOD OF SUCH ACTIVITY FROM OTHER SOURCES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN DECLINING FROM MINOR STORM LEVEL IN RECENT HOURS. QUIET
TO UNSETTLED CONDITIONS ARE EXPECTED FOR THE FORECAST PERIOD
POSSIBLY INTERRUPTED EARLY BY THE INFLUENCE OF A FILAMENT
DISAPPEARANCE ON 4 FEB. IN THAT CASE A BRIEF PERIOD OF ACTIVE
LEVEL IS LIKELY TO OCCUR.

III. EVENT PROBABILITIES 09 FEB-11 FEB

CLASS M 30/30/20

CLASS X 05/05/01

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 FEB 146

ESTIMATED 08 FEB 140

PREDICTED 09 FEB-11 FEB 135/130/125

90 DAY MEAN 07 FEB 171

V. GEOMAGNETIC A INDICES

OBSERVED AFR 06 FEB 047 AP 07 FEB 045

ESTIMATED AFR 07 FEB 040 AFR/AP 08 FEB 018/020

PREDICTED AFR/AP 09 FEB-11 FEB 015/015-010/010-010/015

SOLTERWARN

BT

HFUS 3 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 039B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 08 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/1200Z TO 08/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW SINCE 12Z. ALTHOUGH A CORONAL NOISE STORM (245 MHZ) HAS BEEN IN PROGRESS FOR MOST OF THE DAY, NO SIGNIFICANT SOLAR FLARES HAVE BEEN REPORTED. ALL OF THE MAJOR SUNSPOT REGIONS HAVE BEEN STABLE. REGION 4077 (S17W81) HAS DECAYED SIGNIFICANTLY IN BOTH WHITE LIGHT AND MICROWAVE EMISSIONS. MAJOR RESTRUCTURING APPEARS TO BE OCCURRING BETWEEN REGIONS 4079 (S18W37) AND 4081 (S09W23). NEW SPOTS ARE EMERGING IN THIS AREA. A NEW REGION, 4083 (S17E62), WAS NUMBERED DURING THE DAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT LOW LEVELS OVER THE NEXT SEVERAL DAYS. THE 10.7 CM FLUX IS EXPECTED TO SLOWLY DECLINE AS REGION 4077 ROTATES AROUND THE WEST LIMB OF THE SUN.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS DECLINED FROM ACTIVE TO UNSETTLED LEVELS DURING THE DAY. THE FIELD IS EXPECTED TO REMAIN AT UNSETTLED LEVELS DURING THE NEXT TWO DAYS WITH SLIGHTLY ACTIVE CONDITIONS EXPECTED ON THE THIRD DAY.

III. EVENT PROBABILITIES 09 FEB-11 FEB

CLASS M 30/30/20

CLASS X 05/05/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 FEB 137

PREDICTED 09 FEB-11 FEB 135/130/125

90 DAY MEAN 08 FEB 171

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 FEB 037/045

ESTIMATED AFR/AP 08 FEB 018/020

PREDICTED AFR/AP 09 FEB-11 FEB 015/015-010/010-010/015

SOLTERWARN

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