

HFUS 1 BOU 061415

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 037A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1200UT 06 FEBRUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
05/1200UT TO 06/1200UT:

SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. A C8/IN BEGINNING AT
05/2111Z IN REGION 2930 (N13E59) WAS FOLLOWED BY A M1/IB AT
05/2222Z IN REGION 2911 (S13W72) AND A M1/IN AT 06/0027Z IN
REGION 2930. REGION 2930 IS A F-TYPE SUNSPOT GROUP, ALL ITS
GROWTH HAVING OCCURRED ON THE INVISIBLE SIDE. THE REGION IS
STILL TOO CLOSE TO THE LIMB FOR PROPER ANALYSIS. REGION 2926
(S15W32) IS CURRENTLY UNDERGOING A RAPID GROWTH PHASE. OF THE
FIVE REGIONS ADDED YESTERDAY, ONLY REGION 2932 (N03E17) IS
CURRENTLY SHOWING A SLOW GROWTH TREND.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW TO MODERATE. REGIONS
2930 AND 2926 ARE MOST LIKELY TO PRODUCE ENERGETIC FLARES.

II. GEOPHYSICAL SUMMARY AND FORECAST:

MAGSTORM CONDITIONS EXISTED BETWEEN 05/09-21Z. SINCE THEN
THE FIELD HAS VARIED FROM QUIET TO ACTIVE CONDITIONS. THE FIELD
IS EXPECTED TO BE MODERATELY UNSETTLED TO ACTIVE THE NEXT 24-36
HOURS AND THEN GENERALLY UNSETTLED THE BALANCE OF THE FORECAST
PERIOD.

III. EVENT PROBABILITIES: 07-09 FEB

CLASS M 20/25/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 05 FEB 193

ESTIMATED 06 FEB 195

PREDICTED 07-09 FEB 195/190/185

90 DAY MEAN 05 FEB 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 FEB 06 AP 05 FEB 28

ESTIMATED AFR 05 FEB 21 AFR/AP 06 FEB 11/16

PREDICTED AFR/AP 07-09 FEB 12/14 10/10 12/08

SOLTERWARN

BT

HFUS 3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 037B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200UT 06 FEB 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
06/1200UT TO 06/2200UT:

SOLAR ACTIVITY HAS BEEN MODERATE SINCE 06/1200Z. REGION 2926
(S14W40), WHICH CONTINUES TO GROW, PRODUCED AN M1/SN AT 061247Z
(MAX). TWO SUBFLARES WERE OBSERVED IN THIS REGION ALSO. REGION
2918 (S08W60) PRODUCED A 1F FLARE AT 061308Z (MAX) BUT NO XRAY
EMISSION WAS RECORDED.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY SHOULD BE GENERALLY LOW. HOWEVER, AN ISOLATED "M"
EVENT IS STILL A REAL POSSIBILITY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD AGAIN EXPERIENCED STORM CONDITIONS BETWEEN
06/1200Z AND 06/1800Z. THE FIELD SHOULD RETURN TO A MORE STABLE
STATE WITH UNSETTLED TO OCCASIONALLY ACTIVE CONDITIONS EXPECTED
FOR THE NEXT 24 TO 36 HOURS.

III. EVENT PROBABILITIES: 07 FEB - 09 FEB

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 06 FEB 194

PREDICTED 07-09 FEB 190/187/183

90 DAY MEAN 06 FEB 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 FEB 26/28

ESTIMATED AFR/AP 06 FEB 27/34

PREDICTED AFR/AP 07-09 FEB 14/20 10/14 08/08

SOLTERWARN

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