

HFUS 1 BOU 051300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 036A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 05 FEB 1983
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
04/1200Z TO 05/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE THIS
PERIOD WITH A SINGLE M1/1B FLARE IN REGION 4077(S16W37)
ACCOMPANIED BY A 245 MHZ BURST OF 2700 FU AND MODEST DISCRETE
EMISSION AT OTHER OBSERVED FREQUENCIES. THIS EVENT OCURRED AT
05/0927Z AND WAS PRECEDED BY C3/1B AND C6/1B EVENTS FROM THE
SAME REGION AT 05/0433Z AND 05/0649Z RESPECTIVELY. REGION 4077
RETAINS A SIGNIFICANT MAGNETIC GRADIENT WITH A DELTA STILL
PRESENT. SOME RESTRUCTURING IS REPORTED IN THE REGION AND SOME
ADDITIONAL ACTIVITY IS LIKELY TO ACCOMPANY THE DECAY PHASE WHEN
IT BEGINS. REGION 4097(S17E10) HAS CONTINUED TO GROW VERY
RAPIDLY TO ISSUE TIME. THIS REGION NOW ALSO APPEARS CAPABLE OF
SIGNIFICANT ACTIVITY. IT NOW EXCEEDS 300 MILLIONTHS IN AREA
WHILE REMANING MAGNETICALLY SIMPLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
MODERATE WITH ISOLATED M-CLASS EVENTS POSSIBLE IN REGIONS 4077
AND 4079. THE FREQUENCY OF EVENTS IS EXPECTED TO BE LOW BUT
REGION 4077 APPEARS CAPABLE OF ANOTHER MAJOR FLARE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN AT MAJOR STORM LEVEL SINCE THE LATE HOURS OF THE UT DAY 4
FEB. MAJOR TO MINOR STORM CONDITIONS MAY BE EXPECTED THROUGH
EARLY ON 6 FEB. ACTIVE CONDITIONS SHOULD FOLLOW TO NEAR THE
END OF THE FORECAST PERIOD. THE SATELLITE PROTON EVENT ENDED
WITH FLUXES DROPPING BELOW THRESHOLD AROUND 5/0700Z.

III. EVENT PROBABILITIES 06 FEB-08 FEB

CLASS M	70/70/70
CLASS X	10/10/10
PROTON	10/10/10
PCAF	YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED	04 FEB	161
ESTIMATED	05 FEB	159
PREDICTED	06 FEB-08 FEB	158/158/158
90 DAY MEAN	04 FEB	171

V. GEOMAGNETIC A INDICES

OBSERVED AFR	03 FEB	000	AP 04 FEB	051
ESTIMATED AFR	04 FEB	037	AFR/AP 05 FEB	055/050
PREDICTED AFR/AP	06 FEB-08 FEB	026/030-016/015-012/015		

SOLTERWARN

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RUN BEDIT FILE RRTX TO EDIT
RENSPONGHUM062200FOR TAPE
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 036B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 05 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM *low*
05/1200Z TO 05/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION
4077 (S17W43) IS THE LARGEST REGION AND HAS PRODUCED SEVERAL C
CLASS XRAY FLARES AND ALSO A 1B OPTICAL FLARE. THE REGION
MAINTAINS ITS STEEP MAGNETIC GRADIENT AND DELTA CONFIGURATION.
REGION 4079 (S18E02) HAS CONTINUED TO GROW, DEVELOPING SPOTS
ABOVE THE LEADER. AN AFS HAS BEEN SEEN IN THIS REGION. ALL
OTHER REGIONS APPEAR STABLE. NO NEW REGIONS HAVE BEEN NUMBERED
THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN MODERATE. REGIONS 4077 AND 4079 ARE BOTH POSSIBLE
SOURCES FOR FUTURE MAJOR FLARE ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN AT MAJOR STORM LEVELS. THIS LEVEL IS EXPECTED TO CONTINUE
UNTIL EARLY 06 FEB, WHEN IT SHOULD TAPER TO MINOR STORM
LEVELS, ENDING WITH ACTIVE CONDITIONS ON THE LAST DAY OF THE
FORECAST PERIOD. SLIGHT ACTIVITY IS EXPECTED FROM A
DISAPPEARING FILAMENT WHICH OCCURRED ON 04 FEB AT 0516Z.

III. EVENT PROBABILITIES 06 FEB-08 FEB

CLASS M 70/70/70

CLASS X 10/10/10

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 FEB 159

PREDICTED 06 FEB-08 FEB 155/150/150

90 DAY MEAN 05 FEB 171

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 FEB 046/051

ESTIMATED AFR/AP 05 FEB 075/095

PREDICTED AFR/AP 06 FEB-08 FEB 030/030-025/025-015/015

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