

HFUS 1 BOU 301300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 030A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 30 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
29/1200Z TO 30/1200Z: SOLAR ACTIVITY HAS BEEN LOW WITH REGIONS
4073 (N05W27) AND 4075 (S14E32) PRODUCING SMALL CLASS C FLARES.
REGION 4073 IS GROWING SLOWLY AND SMALL SPOTS HAVE EMERGED IN
ITS INTERIOR. REGION 4075 IS ALSO GROWING AND INDICATIONS OF
INCREASING MAGNETIC COMPLEXITY HAVE BEEN REPORTED. NEW REGION
4077 (S18E43) HAS EMERGED RAPIDLY NEAR REGION 4075 AND IS NOW A
SMALL CLASS D GROUP. REGION 4070 (S11W52) WAS INADVERTENTLY
RENUMBERED AS REGION 4078. REGION 4078 IS NOW LOCATED AT N09W09
AND APPEARS TO BE TRAILER POLARITY SPOTS WHICH HAVE EMERGED
AHEAD OF REGION 4071'S CLASS H SPOT AT N05W04. MINOR SURGING
HAS BEEN REPORTED AT THE NORTH AND SOUTHEAST LIMB AND
NON-ENERGETIC ERUPTIVE EVENTS HAVE OCCURRED AT THE NORTHWEST
LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE
GENERALLY LOW FOR THE NEXT THREE DAYS. THE POSSIBILITY OF AN
ISOLATED CLASS M FLARE FROM REGIONS 4073 AND 4075 EXISTS.
CONTINUED RAPID GROWTH OF REGION 4077 COULD INCREASE THE
FREQUENCY OF SMALL FLARES IN BOTH THAT REGION AND NEARBY 4075.
LARGER FLARES FROM THIS COMPLEX COULD COME WITHIN TWO DAYS
SHOULD FLUX EMERGENCE CONTINUE. SEVERAL SMALL REGIONS SHOULD
ROTATE OVER THE EAST LIMB DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TO SLIGHTLY ACTIVE EXCEPT FOR PERIODS BETWEEN
29/1500-1800Z AND 30/0900-1200Z WHEN MINOR STORM LEVELS WERE
EXPERIENCED. THE ONLY LIKELY SOURCE OF THESE DISTURBANCES IS A
CORONAL HOLE IN THE NORTHWEST QUADRANT. UNSETTLED CONDITIONS
ARE FORECAST TO OCCUR DURING THE NEXT THREE DAYS WITH SHORT
PERIODS AT ACTIVE LEVELS POSSIBLE.

III. EVENT PROBABILITIES 31 JAN-02 FEB

CLASS M	15/15/15
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	29 JAN	154
ESTIMATED	30 JAN	164
PREDICTED	31 JAN-02 FEB	170/175/175
90 DAY MEAN	29 JAN	170

V. GEOMAGNETIC A INDICES

OBSERVED AFR	28 JAN	009	AP 29 JAN	017
ESTIMATED AFR	29 JAN	014	AFR/AP 30 JAN	012/015
PREDICTED AFR/AP	31 JAN-02 FEB	010/010-008/010-010/010		

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HFUS 3 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO.

SDF NUMBER 030B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 30 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/1200Z TO 30/2100Z: SOLAR ACTIVITY REMAINS AT A LOW LEVEL.

REGION 4077 (S18E36) HAS GROWN SIGNIFICANTLY SINCE YESTERDAY AND IS NOW A MODERATE SIZE D GROUP. REGION 4077 WILL PROBABLY CONTINUE TO GROW AS IT HAS A WELL DEVELOPED ARCH FILAMENT SYSTEM; IS FLUCTUATING IN BRIGHTNESS AND THE NEUTRAL LINE FILAMENT IS ACTIVE. THE OTHER DISK REGIONS ARE FAIRLY STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN AT A LOW LEVEL. THE GROWTH AND DEVELOPMENT IN 4077 MAY RESULT IN AN ISOLATED M EVENT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE. UNSETTLED TO OCCASIONALLY ACTIVE. CONDITIONS SHOULD CONTINUE.

III. EVENT PROBABILITIES 31 JAN-02 FEB

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 JAN 160

PREDICTED 31 JAN-02 FEB 170/175/175

90 DAY MEAN 30 JAN 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 JAN 016/017

ESTIMATED AFR/AP 30 JAN 015/015

PREDICTED AFR/AP 31 JAN-02 FEB 010/010-008/010-010/010

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