

HFUS 1 BOU 261300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 360A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 26 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
25/1200Z TO 26/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION
4033 (S13E18) PRODUCED AN M1/1B AT 26/0936Z WITH MINOR CM
BURSTS. THIS REGION ALSO PRODUCED 1) A C9/1B AT 26/0815Z WITH A
STRONG TYPE II AND A 190 F.U. BURST AT 10 CM, AND 2) A C9/2B AT
26/0153Z WITH MINOR CM BURSTS. THE GROWTH IN THE NUMBER OF
SMALL SPOTS IN 4033 CONTINUES BUT OVERALL REGION MAGNETIC
GRADIENTS ARE NOT EXCEPTIONALLY HIGH. REGION 4033 (N06W48) IS
GROWING SLOWLY AND FREQUENT BRIGHTENINGS HAVE BEEN OBSERVED.
THE NORTHEAST LIMB, WHERE ACTIVE LONGITUDES WERE EXPECTED TO
RETURN, HAS BEEN QUIET. A FILAMENT LOCATED AT S07W08 ERUPTED
BETWEEN 26/0850-1007Z EJECTING HIGH VELOCITY MATERIAL IN A
NORTHEASTWARDLY DIRECTION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE
MODERATE. THE POSSIBILITY OF ANOTHER MAJOR FLARE FROM REGION
4033 CONTINUES TO EXIST BUT THE FREQUENCY OF THAT LEVEL OF
ACTIVITY SHOULD BE LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TO SLIGHTLY ACTIVE. THE ACTIVE TO MINOR STORM
CONDITIONS EXPECTED TO BEGIN EARLY TODAY HAVE NOT AS YET
MATERIALIZED. NEAR MINOR STORM CONDITIONS ARE FORECAST TO BEGIN
ON 27 DEC IN RESPONSE TO THE X2 FLARE ON 25 DEC. ACTIVE
GEOMAGNETIC CONDITIONS SHOULD BE EXPERIENCED ON 28-29 DEC.

III. EVENT PROBABILITIES 27 DEC-29 DEC

CLASS M 35/90/90
CLASS X 20/20/20
PROTON 10/15/15
PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED	25 DEC	173
ESTIMATED	26 DEC	181
PREDICTED	27 DEC-29 DEC	187/190/193
90 DAY MEAN	25 DEC	179

V. GEOMAGNETIC A INDICES

OBSERVED AFR	24 DEC	017	AP 25 DEC	013
ESTIMATED AFR	25 DEC	011	AFR/AP 26 DEC	015/030
PREDICTED AFR/AP	27 DEC-29 DEC	030/025-020/020-015/015		

SOLTERWARN

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HFUS 3 ROU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 362B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 26 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
26/1200Z TO 26/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. AN
UNASSOCIATED M1 CLASS XRAY EVENT OCCURRED AT 26/1456Z
ACCOMPANIED BY MODEST DISCRETE BURSTS AT THE LOWER FREQUENCIES.
REGION 4033(S13E13) HAS GROWN SLIGHTLY AND HAS GAINED SPOTS. A
NEW REGION 4040(S20E62) IS AN A CLASS SPOT GROUP AND WAS
NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE MODERATE. AN ISOLATED MAJOR FLARE IS POSSIBLE FROM
REGION 4033.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TRENDING TOWARD QUIET IN RECENT HOURS. THE
MINOR STORM PREDICTED HAS YET TO ARRIVE BUT IS STILL EXPECTED
LATE ON 26 OR EARLY ON 27 DEC. CONDITIONS SHOULD BE AT MINOR
STORM TO ACTIVE THROUGH 27 DEC AND ACTIVE TO UNSETTLED ON 28
DEC.

III. EVENT PROBABILITIES 27 DEC-29 DEC

CLASS M 85/90/90

CLASS X 20/20/20

PROTON 10/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 DEC 175

PREDICTED 27 DEC-29 DEC 172/170/170

90 DAY MEAN 26 DEC 173

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 DEC 011/013

ESTIMATED AFR/AP 26 DEC 012/015

PREDICTED AFR/AP 27 DEC-29 DEC 030/025-020/020-015/015

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