

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 26/0015Z 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 26/0850-1000Z 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 UNSETLED 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 BOU 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(S22E62) 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 UNSETLED 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 UNSETLED ON 28 DEC.

III. FVFNT 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	178

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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