

HFUS 1 ROU 301300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 364A  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 30 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
29/1200Z TO 30/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION  
4033 (S13W35) PRODUCED A M7/2B FLARE AT 0139Z. MODERATE SHORT  
WAVE FADE AND DISCRETE FREQUENCY RADIO BURSTS ACCOMPANIED THIS  
FLARE. THE OPTICAL FLARE AGAIN OCCURRED IN THE VICINITY OF THE  
DELTA CONFIGURATION. REPORTS INDICATE THE GRADIENTS IN THE  
VICINITY OF THE DELTA MAY BE DIMINISHING. OTHER DISK REGIONS  
ARE SIMPLE IN STRUCTURE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN MODERATE WITH AN OCCASIONAL ENERGETIC FLARE FROM REGION  
4033. HOWEVER, A RAPID DISSIPATION OF THE DELTA GRADIENTS WILL  
CEASE THE ENERGETIC FLARE POTENTIAL FOR REGION 4033.

IJ. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED TO ACTIVE. THE FIELD VARIATIONS ARE EXPECTED TO  
INCREASE THE LATTER HALF OF 31 DECEMBER AND 01 JANUARY TO  
MODERATELY ACTIVE LEVELS.

III. EVENT PROBABILITIES 31 DEC-02 JAN

CLASS M 75/60/50  
CLASS X 10/05/01  
PROTON 10/05/01  
PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED	29 DEC	152
ESTIMATED	30 DEC	150
PREDICTED	31 DEC-02 JAN	145/140/135
90 DAY MEAN	29 DEC	177

V. GEOMAGNETIC A INDICES

OBSERVED AFR	29 DEC	015	AP 29 DEC	019
ESTIMATED AFR	29 DEC	015	AP/AP 30 DEC	014/014
PREDICTED AFR/AP	31 DEC-02 JAN	012/020-015/020-015/015		

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HFUS 3 ROU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 364B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 30 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
30/1200Z TO 30/2100Z: SOLAR ACTIVITY HAS BEEN LOW BUT REGION  
4033 (S14W43) DID MANAGE A C8/1B FLARE AT 1824UT AND A C9/1B  
AT 1841UT. THIS REGION CONTINUES TO FLUCTUATE IN BRIGHTNESS  
AND A PARTIAL FILAMENT DISAPPEARANCE WAS NOTED. REGION 4040  
(S20E09) PRODUCED TWO SMALL SUBFLARES WITHOUT XRAY OR RADIO  
RESPONSES. A SMALL A TYPE GROUP FORMED NEAR S22W17 AND WAS  
NUMBERED 4043. EMERGING FLUX WAS ALSO REPORTED AT N06E57 AND  
S07E32.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
MAINTAIN ITS CURRENT LEVEL FOR ANOTHER 24 TO 43 HOURS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED. UNSETTLED CONDITIONS SHOULD CONTINUE UNTIL 21  
JANUARY WHEN ACTIVE CONDITIONS SHOULD COMMENCE. NOTE NOTE  
NOTE-----THE FREDERICKSBURG A VALUE FOR 23 DEC IS NOT YET  
AVAILABLE.-----

III. EVENT PROBABILITIES 31 DEC-32 JAN

CLASS M 75/60/50

CLASS X 10/05/01

PROTON 10/25/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 DEC 147

PREDICTED 31 DEC-32 JAN 140/135/130

90 DAY MEAN 30 DEC 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 DEC 000/019

ESTIMATED AFR/AP 30 DEC 012/014

PREDICTED AFR/AP 31 DEC-32 JAN 012/020-013/020-015/010

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