

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 3139Z. 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 016 AP 29 DEC 019  
 ESTIMATED AFR 29 DEC 015 AFR/AP 30 DEC 014/014  
 PREDICTED AFR/AP 31 DEC-02 JAN 012/020-013/020-015/013  
 SOLTERWARN  
 RT

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 C9/1B 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-22 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-22 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-22 JAN 012/020-013/020-015/010

SOLTERWARN

BT