

HFUS 1 BOU 281300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 362A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 28 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/1200Z TO 28/1200Z: SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST EVENT WAS A C9/SB AT 2016Z FROM REGION 4033 (S13W07). THOUGH GENERAL DECAY HAS OCCURRED IN THIS REGION, RESTRUCTURING HAS EVOLVED A DELTA CONFIGURATION ON THE NE CORNER OF THE TRAILER PENUMBRA. RESTRUCTURING IN REGION 4032 (N09W06) HAS CONTINUED TO PRODUCE FLARES FROM THIS REGION. MORE SPOTS HAVE ROTATED INTO VIEW WITH REGION 4041 (N05E76). FLARE FLUCTUATIONS AND BRIGHTENINGS ARE OCCURRING IN THIS REGION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. CURRENTLY, REGION 4033 IS THE REGION MOST LIKELY TO PRODUCE AN OCCASIONAL ENERGETIC FLARE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE. GENERALLY UNSETTLED CONDITIONS ARE EXPECTED THROUGH THE FORECAST PERIOD. THE SATELLITE PROTON EVENT WHICH BEGAN AT 27/0600Z HAS HAD SEVERAL RISES/FALLS; ATTAINING A MAXIMUM FLUX OF 190 P/CM2/SEC/STER NEAR 27/1345Z. CURRENT FLUX IS NEAR 55. THE CALCULATED PCA BEGAN AT 27/0900Z AND REACHED A MAXIMUM ABSORPTION OF 4.6 DB AT 27/1400Z.

III. EVENT PROBABILITIES 29 DEC-31 DEC

CLASS M 75/60/50

CLASS X 10/05/01

PROTON 10/05/01

PCAF IN PROGRESS

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 DEC 172-

ESTIMATED 28 DEC 170

PREDICTED 29 DEC-31 DEC 172/170/167

90 DAY MEAN 27 DEC 178

V. GEOMAGNETIC A INDICES

OBSERVED AFR 26 DEC 209 AP 27 DEC 014

ESTIMATED AFR 27 DEC 014 AFR/AP 29 DEC 012/020

PREDICTED AFR/AP 29 DEC-31 DEC 012/015-010/010-010/010

SOITFRWARN

BT

HFUS 3 EOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO.  
SDF NUMBER 362B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 28 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
28/1200Z TO 28/2100Z: SOLAR ACTIVITY WAS MODERATE DURING  
THIS NINE HOUR PERIOD. AT 281551 U.T., REGION 4032 (N09W72)  
PRODUCED AN M4/SN THAT CAUSED SHORTWAVE FADES TO 18 MHZ. REGION  
4032 IS NEARING WEST LIME PASSAGE BUT MAY BE GROWING IN AREA AND  
COMPLEXITY. REGION 4033 (S12W14) HAS BEEN RELATIVELY STABLE THIS  
PERIOD. NO MAJOR STRUCTURAL CHANGES WERE REPORTED. REGION 4041  
(N06E67) IS A "C" TYPE GROUP THAT APPEARS BASICALLY QUIET.

IP. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE MODERATE WITH REGIONS  
4032 AND 4033 BEING RESPONSIBLE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE DURING THE PERIOD.  
UNSETTLED CONDITIONS ARE LIKELY FOR THE COMING 24 HOURS.  
THE 10 MEV PROTONS ARE HOVERING NEAR EVENT THRESHOLDS.

III. EVENT PROBABILITIES: 29 DEC - 31 DEC

CLASS M 75/60/50

CLASS X 10/05/01

PRCTON 10/05/01

PCAF IN PROGRESS

IV. OTTAWA 10.7 FLUX

OBSERVED 28 DEC 162

PREDICTED 29-31 DEC 162/160/159

90 DAY MEAN 28 DEC 178

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 DEC 15/14

ESTIMATED AFR/AP 28 DEC 15/20

PREDICTED AFR/AP 29-31 DEC 12/15 10/10 10/10

SOLTERWARN

BT