

HFUS, BOU 291400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 029A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 29 JANUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
28/1200UT TO 29/1200UT:

SOLAR ACTIVITY HAS CONTINUED AT MODERATE LEVELS DURING THE  
PAST 24 HOURS. REGION 2918 (S11E57) PRODUCED A M2/1B EVENT AT  
28/1606UT. REGION 2911 (S12E57) PRODUCED A M1/1N EVENT AT  
29/0030UT AND A C7/SN AT 29/0401UT. SMALL FLARES WERE REPORTED  
FROM REGIONS 2901 (N10W51), 2916 (N16E47) AND 2919 (S17E51).  
A BRIGHT SURGE, AT SE25, WAS REPORTED OUT TO .18 RADII FROM  
29/0300-0359UT. A NEW REGION HAS BEEN REPORTED ROTATING ON TO  
THE VISIBLE DISK AT NE20.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT MODERATE LEVELS DURING  
THE FORECAST PERIOD. REGION 2911 IS SHOWING SOME GROWTH IN SPOT  
AREA, HOWEVER IT HAS APPARENTLY LOST ITS DELTA CONFIGURATION.  
STRONG MAGNETIC GRADIENTS STILL EXIST AND THE REGION IS CAPABLE OF  
CONTINUED M-CLASS EVENTS, WITH THE CHANCE OF AN ISOLATED X-CLASS  
EVENT. REGION 2918 ALSO SHOWS GROWTH AND HAS PROVED CAPABLE OF  
M-CLASS ACTIVITY, WITH CONTINUED CHANGE THE CHANCE FOR CONTINUED  
M-CLASS ACTIVITY INCREASES. WITH POSSIBLE NEW ACTIVE REGIONS  
ROTATING ONTO THE VISIBLE DISK IN THE NE AND SE THE OVERALL  
LEVEL OF ACTIVITY SHOULD INCREASE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED WITH PERIODS OF ACTIVE  
CONDITIONS. THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO  
ACTIVE FOR THE NEXT 12 HOURS THEN GENERALLY UNSETTLED FOR THE  
REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 30 JANUARY - 01 FEBRUARY

CLASS M 65/70/70

CLASS X 10/15/15

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 28 JAN 200

ESTIMATED 29 JAN 210

PREDICTED 30 JAN-01 FEB 215/220/220

90 DAY MEAN 28 JAN 207

V. GEOMAGNETIC A INDICES

OBSERVED AFR 27 JAN 09 AP 28 JAN 12

ESTIMATED AFR 28 JAN 13 AFR/AP 29 JAN 12/12

PREDICTED AFR/AP 30 JAN - 01 FEB 09/10 10/12 12/12

SOLIERWARN

BT

HFUS 3 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 029B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 29 JAN 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
29/1200UT TO 29/2200UT:

SOLAR ACTIVITY HAS BEEN MODERATE TODAY DUE TO THE M1/1N FLARE  
AT 29/0030UT FROM REGION 2911 (S13E31). THE ONLY FLARES  
OBSERVED SINCE 29/1200UT HAVE BEEN TWO SUBFAINT FLARES FROM  
REGIONS 2911 AND 2912 (S27W56) AND A FEW SMALL UNASSOCIATED  
C-CLASS X-RAY EVENTS. OPTICAL COVERAGE HAS BEEN POOR DUE  
TO WEATHER AND TECHNICAL PROBLEMS. ONE NEW REGION HAS BEEN  
CONFIRMED, 2923 (N19E69).

I B. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN ACTIVE TODAY, PROBABLY DUE TO  
A SMALL, SOUTHERN CORONAL HOLE. THE FIELD IS EXPECTED TO  
BECOME MILDLY UNSETLED FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 30 JAN - 01 FEB

CLASS M 65 / 70 / 70

CLASS X 10 / 15 / 15

PROTON 01 / 01 / 01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 29 JAN 211

PREDICTED 30 JAN - 01 FEB 215 / 220 / 224

90 DAY MEAN 29 JAN 207

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 28 JAN 12 / 12

ESTIMATED AFR/AP 29 JAN 15 / 14

PREDICTED AFR/AP 30 JAN - 01 FEB 09 / 10 08 / 08 08 / 08

SOLTERWARN

BT