

HEUS 1 BOU 261400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 026A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 26 JANUARY 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

25/1200UT TO 26/1200UT:

SOLAR ACTIVITY HAS CONTINUED AT A MODERATE LEVEL THIS PERIOD. THIRTEEN (13) M-CLASS X-RAY EVENTS HAVE BEEN RECORDED THIS PERIOD, ALL HAVE BEEN FROM REGION 2911 (S12E72), OR HAVE NOT BEEN OPTICALLY CORRELATED. THE LARGEST EVENT (AN M2.1N AT 26/0313 UT PRODUCED 280 FLUX UNITS AT 2695 MHZ ALONG WITH WEAK TYPE II/III AND IV SWEEPS. LOOPS WERE REPORTED FROM 26/0348 - 1002 UT AT SE 13. SMALL SUB FLARES WERE ALSO REPORTED FROM REGIONS 2901 (N10W18), 2903 (S10W16), 2905 (S26W01) AND 2910 (S10E45).

I B. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT MODERATE LEVELS DURING THE FORECAST PERIOD. REGION 2911 IS IN THE SAME LOCATION AS OLD REGION 2779 (S12L98) WAS ON ROTATION 1701, WHEN IT PRODUCED 48 M AND 4 X-CLASS EVENTS DURING DISK PASSAGE. HOWEVER LIMITED HISTORY ON REGION 2911 PREVENTS DETAILED ANALYSIS AS TO WHETHER IT IS IN A GROWTH OR DECAY PHASE. IF REGION 2911 IS GROWING THEN A PERIOD OF HIGH ACTIVITY IS TO BE EXPECTED. REGION 2901 (N10W18) HAS EXHIBITED GROWTH THIS PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETLED. LITTLE CHANGE IN THE GEOMAGNETIC FIELD IS EXPECTED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 27-29 JANUARY

CLASS M 90/90/90

CLASS X 30/30/30

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 25 JAN 180

ESTIMATED 26 JAN 193

PREDICTED 27-29 JAN 200/210/220

90 DAY MEAN 25 JAN 207

V. GEOMAGNETIC A INDICES

OBSERVED AFR 24 JAN 09 AP 25 JAN 07

ESTIMATED AFR 25 JAN 06 AFR/AP 26 JAN 08/08

PREDICTED AFR/AP 27-29 JAN 07/07 08/07 08/10

SOLTERWARN

BT

HFUS 3 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 026B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200UT 26 JAN 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
26/1200UT TO 26/2200UT:

SOLAR ACTIVITY HAS BEEN MODERATE. EVENTS OCCURRING SINCE
26/1200 UT HAVE BEEN AN M1 AT 1241 UT, A C3 AT 1323 UT, A
C5 AT 1445 UT; ALL WITH NO OPTICAL REPORTS; A C6/SB AT
1719 UT, AND A C6/SB AT 2006 UT, BOTH FROM REGION 2911
(S13E71). THIS REGION IS CURRENTLY THE MOST ACTIVE ON
THE DISK BUT STILL TOO CLOSE TO THE EAST LIMB FOR RELIABLE
MAGNETIC DATA.

I B. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY WILL CONTINUE MODERATE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TODAY AND IS
EXPECTED TO REMAIN UNSETLED FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 27 - 29 JAN

CLASS M 90/90/90

CLASS X 30/30/30

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 26 JAN 180

PREDICTED 27-29 JAN 188/193/200

90 DAY MEAN 26 JAN 207

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 25 JAN 07/07

ESTIMATED AFR/AP 26 JAN 08/08

PREDICTED AFR/AP 27-29 JAN 07/07 08/07 08/10

SOLTERWARN

BT