

HXUS 1 BOU 251300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 025A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 25 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/1200Z TO 25/1200Z: SOLAR ACTIVITY WAS AGAIN MODERATE THIS PERIOD AS REGION 3573 (N09E84) PRODUCED AN M6/1B EVENT AT 24/1935UT. PROBLEMS WITH COMMUNICATIONS MAY BE THE REASON NO RADIO BURSTS WERE RECORDED WITH THIS EVENT. NEAR CONTINUOUS SURGING IS BEING OBSERVED FROM REGION 3573. THE NEXT LARGEST EVENT RECORDED, THIS PERIOD, WAS A C2/SN FROM REGION 3557 (N04W41) AT 24/1349UT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT OR NEAR MODERATE LEVELS DURING THIS FORECAST PERIOD. ACTIVITY SHOULD CONTINUE TO INCREASE AS REGION 3573 ROTATES INTO FULL VIEW. OLD ACTIVE LONGITUDES DUE TO RETURN NEAR THE END OF THE FORECAST PERIOD SHOULD INCREASE THE POTENTIAL FOR A MAJOR EVENT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS ACTIVE DURING THE FIRST PORTION OF THE PERIOD THEN GENERALLY UNSETTLED THE LAST HALF. THE GEOMAGNETIC FIELD IS EXPECTED, UNLESS A MAJOR FLARE OCCURS, TO BE UNSETTLED DURING THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 26 JAN-28 JAN

CLASS M 75/75/90

CLASS X 10/10/15

PROTON 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 JAN 154

ESTIMATED 25 JAN 165

PREDICTED 26 JAN-28 JAN 175/180/185

90 DAY MEAN 24 JAN 195

V. GEOMAGNETIC A INDICES

OBSERVED AFR 23 JAN 017 AP 24 JAN 018

ESTIMATED AFR 24 JAN 018 AFR/AP 25 JAN 010/012

PREDICTED AFR/AP 26 JAN-28 JAN 010/012-010/010-010/010

SOLTERWARN

BT

HXUS BOU 251300

PREDM 07526 07527 09028

PREDX 01026 01027 01528

PREDP 00526 00527 01028

PCAF 00126

TENCM 17526 18027 18528

AFRED 01026 01027 01028

AFAPF 01226 01027 01028

KKK 23233 32223 33322

BT

HFUS 3 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 025B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 25 JANUARY 1982

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
25/1200Z TO 25/2100Z:

SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. THE LARGEST EVENT WAS A GS/CR AT 2048Z IN REGION 3557 (N03W48). REGIONS 3557, 3569 (S08W03), AND 3572 (N21E23) HAVE SHOWN NEW GROWTH DURING THE PAST 24 HOURS. REGION 3573 (N11E73), WHICH PRODUCED THE CLASS M ACTIVITY YESTERDAY, CONTAINS A DELTA CONFIGURATION. THIS REGION IS STILL CLOSE TO THE LIMB, BUT WHITE LIGHT STRUCTURE IS DOMINATED BY ONE LARGE PENUMBRA. HOLLOWAY REPORTS AN H-TYPE SUNSPOT CURRENTLY CROSSING EAST LIMB AT S14 AND ANOTHER REGION EMERGING NEAR N10E40.

II. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE.

III. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. GENERALLY UNSETLED CONDITIONS ARE EXPECTED TO PERSIST THROUGH THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 26-28 JAN

CLASS M 75/75/90

CLASS X 10/10/15

PROTON 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 25 JAN 177

PREDICTED 26-28 JAN 187/194/199

90 DAY MEAN 25 JAN 195

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 24 JAN 18/18

ESTIMATED AFR/AP 25 JAN 08/12

PREDICTED AFR/AP 26-28 JAN 10/12 10/10 10/10

SOLAR WARN

BT