

HFUS 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 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/1200Z TO 25/1200Z: SOLAR ACTIVITY HAS CONTINUED LOW DURING THIS PERIOD. THE LARGEST EVENT OBSERVED WAS A C3/SN FROM REGION 4071 (N08E63) AT 24/2007UT. REGIONS 4060 (N09W90), 4064 (N10W80) AND 4072 (S09E37) HAVE ALSO PRODUCED MINOR EVENTS DURING THIS PERIOD. ALL REGIONS ARE REPORTED AS STABLE OR SLIGHTLY DECAYED. A NEW SPOT MAY HAVE ROTATED OVER THE LIMB AT SE16 HOWEVER REPORTS FROM THE OBSERVATORIES HAVE BEEN LIMITED BY WEATHER AND COMMUNICATION PROBLEMS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW DURING THIS FORECAST PERIOD. REGIONS CURRENTLY ON THE DISK AND OLD RETURNING REGIONS ARE NOT EXPECTED TO INCREASE ACTIVITY SIGNIFICANTLY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY ACTIVE WITH SHORT PERIODS, AT HIGH LATITUDES, OF MINOR STORM CONDITIONS. THE FIELD IS EXPECTED TO CONTINUE ACTIVE TO UNSETTLED FOR THE NEXT 12 HOURS THEN BE UNSETTLED TO QUIET FOR THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 26 JAN-28 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 JAN 118

ESTIMATED 25 JAN 115

PREDICTED 26 JAN-28 JAN 113/112/110

90 DAY MEAN 24 JAN 172

V. GEOMAGNETIC A INDICES

OBSERVED AFR 23 JAN 009 AP 24 JAN 019

ESTIMATED AFR 24 JAN 016 AFR/AP 25 JAN 014/015

PREDICTED AFR/AP 26 JAN-28 JAN 010/015-008/015-008/010

SOLTERWARN

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 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/1200Z TO 25/2100Z: SOLAR ACTIVITY HAS BEEN LOW. NEW REGIONS TODAY 4073(N04E33) AND 4074(S18E75) HAVE BOTH FLARED DURING THE PERIOD BUT NO FLARES GREATER THAN SUBFAINT AND WITH XRAY GREATER THAN C1 HAVE BEEN OBSERVED THIS PERIOD. REGION 4073 HAS ARCH FILAMENTS AND IS DEVELOPING RAPIDLY. THE REGION REMAINS TOO SMALL TO BE A PROBABLE SOURCE OF SIGNIFICANT ACTIVITY DURING THE FORECAST PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW DURING THE FORECAST PERIOD. ACTIVITY INCREASE IS LIKELY ONLY IF REGION DEVELOPMENT OCCURS AMONG THE SMALL REGIONS NOW ON THE DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DECLINING TO GENERALLY UNSETTLED CONDITIONS IN RECENT HOURS. FURTHER DECLINE IN MAGNETIC ACTIVITY IS EXPECTED AND UNSETTLED TO NEAR QUIET CONDITIONS SHOULD DEVELOP BY THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 26 JAN-28 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 JAN 127

PREDICTED 26 JAN-28 JAN 135/138/142

90 DAY MEAN 25 JAN 171

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 JAN 020/019

ESTIMATED AFR/AP 25 JAN 014/015

PREDICTED AFR/AP 26 JAN-28 JAN 010/015-008/015-008/010

SOLTERWARN

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