

HFUS 1 BOU 201300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 020A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 20 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

19/1200Z TO 20/1200Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. NO C-CLASS X-RAY EVENTS OCCURRED, NOR HAVE ANY OPTICAL FLARES BEEN OBSERVED. THE MOST SIGNIFICANT REGION ON THE VISIBLE DISK IS REGION 4065 (S13W09), A D-CLASS BIPOLAR GROUP, WHERE SOME RESTRUCTURING IS OCCURRING. INTERMITTENT GROWTH AND DECAY WERE REPORTED IN REGION 4067 (N16E10).

BIPOLAR REGION 4064 (N09W15) HAS BEEN STABLE AND QUIET. NO LIMB ACTIVITY HAS BEEN REPORTED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW FOR THE NEXT THREE DAYS. REGIONS DUE TO RETURN OVER THE EAST LIMB DID NOT PRODUCE SIGNIFICANT ACTIVITY DURING THEIR LAST APPEARANCE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED FOR THE PAST 24 HOURS. GEOMAGNETIC ACTIVITY IS EXPECTED TO CONTINUE UNSETLED TOMORROW BUT TREND TOWARDS QUIET CONDITIONS FOR THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 21 JAN-23 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 JAN 132

ESTIMATED 20 JAN 128

PREDICTED 21 JAN-23 JAN 125/125/125

90 DAY MEAN 19 JAN 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR 18 JAN 024 AP 19 JAN 016

ESTIMATED AFR 19 JAN 014 AFR/AP 20 JAN 015/020

PREDICTED AFR/AP 21 JAN-23 JAN 010/015-008/015-008/015

SOLTERWARN

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HFUS 3 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 020B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 20 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
20/1200Z TO 20/2100Z: SOLAR ACTIVITY HAS BEEN LOW. NO CLASS C
X-RAY EVENTS OR OPTICAL FLARES HAVE BEEN OBSERVED. REGION 4065
(S13W15) REMAINS THE MOST IMPRESSIVE REGION ON THE DISK WITH AN
E TYPE CLASSIFICATION AND BETA MAGNETIC CONFIGURATION. NONE OF
THE OTHER SPOT GROUPS ON THE DISK APPEAR CAPABLE OF SIGNIFICANT
FLARE ACTIVITY. NO NEW REGIONS BEEN NUMBERED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY WILL CONTINUE LOW.
REGION 4065 SHOULD CONTINUE TO BE THE DOMINANT REGION ON THE
DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETLED AND SHOULD REMAIN UNSETLED THROUGHOUT THE
FORECAST PERIOD.

III. EVENT PROBABILITIES 21 JAN-23 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 JAN 125

PREDICTED 21 JAN-23 JAN 125/125/125

90 DAY MEAN 20 JAN 175

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 JAN 015/016

ESTIMATED AFR/AP 20 JAN 014/012

PREDICTED AFR/AP 21 JAN-23 JAN 010/010-008/010-008/015

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