

HFUS 1 BOU 011300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 001A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 01 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
31/1200Z TO 01/1200Z: SOLAR ACTIVITY REMAINS LOW. REGION 4033
(S13W63) CONTINUED TO DECAY DURING THE PERIOD IN ALL PARAMETERS
AND IS NOW A MODERATE SIZED F-TYPE GROUP WITH A BETA-GAMMA
MAGNETIC COMPLEXITY. DESPITE ITS WEAKENING GRADIENTS AND
DULLING PLAGE, THIS REGION DID MANAGE TO PRODUCE A C8/1B FLARE
AT 01/0946Z MAXIMUM WITH ONLY MINOR DISCRETE FREQUENCY RADIO
RESPONSE. REGION 4039 (S17W33), A DECAYING SIMPLE BI-POLAR
STRUCTURE, WAS THE ONLY OTHER GROUP TO FLARE DURING THE PERIOD.
NO NEW SPOT GROUPS WERE NUMBERED DURING THE PAST 24 HOURS. EAST
LIMB ACTIVITY HAS CONSISTED OF MINOR ACTIVITY FROM A PROMINENCE
LOCATED FROM SE02 TO SE16.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN LOW. THE RETURN OF PREVIOUSLY ACTIVE REGIONS DURING THE
NEXT TWO DAYS COULD RAISE THE LEVEL OF MINOR ACTIVITY SLIGHTLY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS
QUIET DURING THE LAST 12 HOURS OF THE 31ST, BUT BECAME SLIGHTLY
ACTIVE EARLY IN THE UT DAY ON THE FIRST. THE CURRENT CONDITIONS
ARE NOW UNSETTLED. UNSETTLED TO SLIGHTLY ACTIVE LEVELS ARE
FORECAST THROUGH THE PERIOD.

III. EVENT PROBABILITIES 02 JAN-04 JAN

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 DEC 139

ESTIMATED 01 JAN 137

PREDICTED 02 JAN-04 JAN 135/142/150

90 DAY MEAN 31 DEC 173

V. GEOMAGNETIC A INDICES

OBSERVED AFR 30 DEC 013 AP 31 DEC 008

ESTIMATED AFR 31 DEC 007 AFR/AP 01 JAN 012/012

PREDICTED AFR/AP 02 JAN-04 JAN 015/010-010/015-010/015

SOLTERWARN

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HFUS 3 BOU 012200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 001B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 01 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
01/1200Z TO 01/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY
MINOR SUB C CLASS FLUCTUATIONS BEING OBSERVED. REGION 4033
(S13W68) CONTINUES TO DECAY IN BOTH AREA AND MAGNETIC
GRADIENTS. SEVERAL SMALL NEW REGIONS WERE NUMBERED TODAY - 4044
(N08W00), 4045 (N24E07), 4046 (S16E33), AND 4047 (S16E36). SLOW
GROWTH APPEARS TO BE OCCURRING IN REGIONS 4044 AND 4046.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE
GENERALLY LOW. AN ISOLATED CLASS M FLARE FROM REGION 4033
REMAINS A POSSIBILITY. POTENTIALLY ACTIVE LONGITUDES WILL
RETURN DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TO SLIGHTLY ACTIVE. SIMILAR CONDITIONS SHOULD BE
EXPERIENCED FOR THE DURATION OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 02 JAN-04 JAN

CLASS M 30/30/30
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 JAN 136
PREDICTED 02 JAN-04 JAN 135/142/150
90 DAY MEAN 01 JAN 175

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 DEC 005/008
ESTIMATED AFR/AP 01 JAN 011/012
PREDICTED AFR/AP 02 JAN-04 JAN 015/010-010/015-010/015

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