

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 176

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  
REMN 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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