

HFUS 1 BOU 031300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 337A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 03 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200Z TO 03/1200Z: SOLAR ACTIVITY WAS MODERATE DURING THE PAST 24 HOURS. REGION 4014 (N06E55) WAS RESPONSIBLE FOR THREE M EVENTS: M1/1B AT 022117Z (MAX), M1/1B AT 030117Z (MAX) AND M1/1B 030907Z (MAX). REGION 4012 (N12E46) PRODUCED ONE M EVENT AT 021757Z (MAX) AN M1/1B. NONE OF THESE EVENTS WERE VERY ENERGETIC RADIO WISE. BOTH OF THESE REGIONS ARE MODERATE SIZE D GROUPS AND BOTH HAVE DELTA MAGNETIC CONFIGURATIONS. REGION 4005 (S11W12) REMAINS THE LARGEST DISK REGION AND CONTINUES TO PRODUCE FREQUENT SUBFLARES. A SMALL GROUP IS DEVELOPING NEAR N14E12 AND WILL BE NUMBER 4015.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE AT A MODERATE LEVEL FOR THE NEXT 24 HOURS AS REGIONS 4014 AND 4012 RETAIN THEIR COMPLEXITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET. QUIET TO UNSETLED CONDITIONS SHOULD CONTINUE FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 04 DEC-06 DEC

CLASS M 85/85/85

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 DEC 171

ESTIMATED 03 DEC 175

PREDICTED 04 DEC-06 DEC 174/171/171

90 DAY MEAN 02 DEC 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 DEC 002 AP 02 DEC 007

ESTIMATED AFR 02 DEC 005 AFR/AP 03 DEC 007/010

PREDICTED AFR/AP 04 DEC-06 DEC 010/015-010/015-010/015

SOLTERWARN

BT

HFUS 3 BOU 032200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 337B  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 03 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/1200Z TO 03/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST NINE HOURS. MAJOR SPOT GROWTH AND PLAGE DEVELOPMENT IS OCCURRING IN REGION 4014(N08E48) AND THE NEARBY PORTION OF REGION 4010(N09E25). AT LEAST TWO DELTA CONFIGURATIONS HAVE APPEARED IN THIS LARGE ACTIVITY COMPLEX THAT ALSO INCLUDES REGION 4012(N12E37). MINOR GROWTH CONTINUES IN REGIONS 4013 (N14W10) AND 4007(S15W37). A SMALL DELTA CONFIGURATION HAS FORMED IN THE LATTER REGION. REGION 4005(S10W19) IS OF SIMPLE STRUCTURE BUT RETAINS AN EXCEPTIONALLY LARGE AND DARK PRINCIPAL SUNSPOT. A MINOR SURGING AREA HAS APPEARED AT SE LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. FURTHER GROWTH IN REGION 4007 AND IN COMPLEX 4010/4012/4014 IS EXPECTED TO BUILD CONDITIONS FOR STRONG CLASS M EVENTS. THE RETURN OF COMPLEX 3984/3987/3990 AT SE LIMB LATE TOMORROW IS EXPECTED TO ADD SIGNIFICANT RADIO AND XRAY FLUX.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS GRADUALLY BECOME MORE UNSETLED AFTER A PROLONGED PERIOD OF QUIET. UNSETLED CONDITIONS ARE EXPECTED THROUGHOUT THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 04 DEC-06 DEC

CLASS M	85/85/85
CLASS X	05/05/05
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	03 DEC	187
PREDICTED	04 DEC-06 DEC	195/210/215
90 DAY MEAN	03 DEC	165

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP	02 DEC	003/007
ESTIMATED AFR/AP	03 DEC	010/010
PREDICTED AFR/AP	04 DEC-06 DEC	010/015-010/015-010/015

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