

HFUS 1 BOU 021300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 002A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 02 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/1200Z TO 02/1200Z: SOLAR ACTIVITY WAS AT A LOW LEVEL UNTIL 0153UT WHEN REGION 4033 (S12W78) PRODUCED AN M1.1 FLARE. THIS EVENT WAS ACCOMPANIED BY MINOR RADIO INCLUDING A WEAK TYPE II SWEEP. REGION 4033 CONTINUES TO DECLINE AS IT APPROACHES THE WEST LIMB AND SOME SURGE ACTIVITY HAS BEEN REPORTED. THE ONLY OTHER REGION SHOWING ANY SIGNS OF DEVELOPMENT WAS REGION 4045 (S16E32) WHICH HAS GROWN SLIGHTLY. MINOR ACTIVITY HAS BEEN REPORTED ON THE EAST LIMB NEAR S17 WHERE REGION 4021 (S16 L131) IS DUE TO RETURN.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW WITH ONLY INFREQUENT INCREASES TO MODERATE LEVELS. REGION 4033 IS STILL CAPABLE OF ENERGETIC ACTIVITY. THE AREAS AROUND RETURNING REGIONS 4021 AND 4022 (N10 L115) MAY ALSO BE ACTIVE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED FOR MOST OF THE PERIOD. RECURRENCE INDICATES THAT UNSETTLED TO SLIGHTLY ACTIVE CONDITIONS SHOULD BE EXPECTED. A CORONAL HOLE IS PRESENT NEAR N25 E20 AND MAY INFLUENCE GEOMAGNETIC CONDITIONS LATER IN THE WEEK.

III. EVENT PROBABILITIES 03 JAN-05 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

ESTIMATED 02 JAN 136

PREDICTED 03 JAN-05 JAN 142/150/155

90 DAY MEAN 01 JAN 175

V. GEOMAGNETIC A INDICES

OBSERVED AFR 31 DEC 005 AP 01 JAN 008

ESTIMATED AFR 01 JAN 011 AFR/AP 02 JAN 007/008

PREDICTED AFR/AP 03 JAN-05 JAN 010/015-010/015-010/015

SOLTERWARN

BT

HFUS 3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 002B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 02 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
02/1200Z TO 02/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY TWO  
SMALL SUBFLARES REPORTED SINCE 1200Z. REGION 4033 HAS ROTATED  
BEYOND WEST LIMB WITHOUT PRODUCING ANY FURTHER FLARE ACTIVITY.  
A LARGE NEW REGION, 4048 (S19E83), IS ROTATING ONTO THE DISK  
BUT IS STILL NOT COMPLETELY VISIBLE. THIS IS THE RETURN OF A  
PREVIOUSLY ACTIVE REGION BUT SO FAR 4048 APPEARS TO BE STABLE  
AND MATURE. ALL OTHER REGIONS ARE STABLE OR DECLINING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW ALTHOUGH INCREASED ACTIVITY IS POSSIBLE FROM REGION  
4048 AS IT ROTATES ONTO THE DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN UNSETTLED. UNSETTLED CONDITIONS ARE EXPECTED THROUGHOUT  
THE FORECAST PERIOD.

III. EVENT PROBABILITIES 03 JAN-05 JAN

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 JAN 136

PREDICTED 03 JAN-05 JAN 142/150/155

90 DAY MEAN 02 JAN 174

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 JAN 010/008

ESTIMATED AFR/AP 02 JAN 010/010

PREDICTED AFR/AP 03 JAN-05 JAN 010/015-010/015-010/015

SOLTERWARN

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