

HFUS 1 BOU 041300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 004A  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 04 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/1200Z TO 04/1200Z: SOLAR ACTIVITY HAS REMAINED LOW WITH AN UNCORRELATED C1 XRAY EVENT BEING THE LARGEST OF THE PERIOD. ONE SMALL FLARE WAS OBSERVED IN REGION 4049 (S07E65). REGION 4046 (S15E11) HAS HAD SLOW GROWTH IN WHITE LIGHT AREA DURING THIS PERIOD. OTHER REGIONS HAVE REMAINED ESSENTIALLY STABLE OR DECLINED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THE PERIOD. THE SLIGHT INCREASE IN PROBABILITIES TOWARD THE END OF THE FORECAST IS DUE TO THE EXPECTED RETURN OF OLD REGION 4025.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. UNSETLED TO LOW ACTIVE CONDITIONS ARE EXPECTED FOR MOST OF THE FORECAST PERIOD. MODERATE ACTIVE CONDITIONS ARE EXPECTED ON THE 7TH IN RESPONSE TO A CORONAL HOLE THAT WAS CENTERED AT N25E15 AT 1600Z ON 3 JANUARY.

III. EVENT PROBABILITIES 05 JAN-07 JAN

CLASS M 30/30/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 JAN 141

ESTIMATED 04 JAN 148

PREDICTED 05 JAN-07 JAN 154/158/170

90 DAY MEAN 03 JAN 174

V. GEOMAGNETIC A INDICES

OBSERVED AFR 02 JAN 008 AP 03 JAN 011

ESTIMATED AFR 03 JAN 011 AFR/AP 04 JAN 010/015

PREDICTED AFR/AP 05 JAN-07 JAN 010/015-010/015-020/020

SOLTERWARN

BT

HFUS 3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 004B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 04 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/1200Z TO 04/2100Z: SOLAR ACTIVITY HAS REMAINED AT VERY LOW LEVELS DURING THE DAY. ACTIVITY HAS BEEN LIMITED TO VERY MINOR SUBFLARES AND PLAGE FLUCTUATIONS FROM WITHIN REGION 4048 (S15E57). NO SIGNIFICANT ACTIVITY HAS OCCURRED IN THE OTHER REGIONS ON THE SUN.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT GENERALLY LOW LEVELS DURING THE NEXT THREE DAYS. REGIONS 4048 (S15E57) AND 4046 (S15W03) ARE THE MOST DYNAMIC REGIONS CURRENTLY ON THE DISK WITH ARCH FILAMENTS REPORTED IN THE FORMER AND RESTRUCTURING OBSERVED IN THE LATTER. BOTH REGIONS ARE APPARENTLY ENTERING A SLOW GROWTH PHASE AND WILL PROBABLY BE THE SOURCES OF MINOR FLARE ACTIVITY OVER THE NEXT SEVERAL DAYS. OTHER REGIONS ON THE DISK REMAIN STABLE AND UNINTERESTING.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE DAY. UNSETTLED CONDITIONS ARE EXPECTED TO PREVAIL OVER THE NEXT SEVERAL DAYS WITH AN INCREASE TO SLIGHTLY ACTIVE CONDITIONS ON 7 JAN AS THE EFFECTS OF A SMALL CORONAL HOLE BEGIN TO BE FELT.

III. EVENT PROBABILITIES 05 JAN-07 JAN

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 JAN 143

PREDICTED 05 JAN-07 JAN 149/153/159

90 DAY MEAN 04 JAN 174

V. GEOMAGNETIC A INDICES.

OBSERVED AFR/AP 03 JAN 010/011

ESTIMATED AFR/AP 04 JAN 013/015

PREDICTED AFR/AP 05 JAN-07 JAN 010/015-010/015-020/020

SOLTERWARN

BT