

HFUS 1 BOU 121300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 012A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 12 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/1200Z TO 12/1200Z: SOLAR ACTIVITY CONTINUES LOW. THE LARGEST EVENT WAS A C5/SB AT 12/1044Z IN REGION 3054 (S16W45). THIS REGION ALSO PRODUCED SEVERAL SMALL SUFFAINT FLARES IN THE PAST 24 HOURS BUT IT IS DECLINING IN SPOT AREA AND COMPLEXITY. A SMALL NEW REGION 4059 (N14E17) DEVELOPED ON THE DISK BUT IT HAS BEEN INACTIVE. ALL OTHER REGIONS ARE STABLE OR DECLINING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW THROUGHOUT THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS UNSETTLED UNTIL 11/2317Z WHEN A SUDDEN COMMENCEMENT OF 50 GAMMAS WAS RECORDED IN BOULDER. SINCE THEN THE FIELD HAS BEEN AT ACTIVE LEVELS. THE GEOMAGNETIC ACTIVITY APPEARS TO BE THE RESULT OF A FILAMENT DISAPPEARANCE ON 7 JAN. THE FIELD IS EXPECTED TO BE ACTIVE FOR THE NEXT 12 HOURS AND THEN BECOME UNSETTLED FOR THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 13 JAN-15 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 JAN 144

ESTIMATED 11 JAN 140

PREDICTED 12 JAN 136/130/126

90 DAY MEAN 11 JAN 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR 10 JAN 056 AP 11 JAN 010

ESTIMATED AFR 11 JAN 011 AFR/AP 12 JAN 015/015

PREDICTED AFR/AP 13 JAN-15 JAN 010/015-008/015-008/015

SOLTERWARN

BT

HFUS 3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 012B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/1200Z TO 12/2100Z: SOLAR ACTIVITY HAS BEEN LOW AGAIN THIS PERIOD. THE LARGEST EVENT HAS BEEN A C3/SN FROM NEW REGION 4062 (N10E69) AT 1908UT, THE GROUP IS A SIMPLE B TYPE. REGION 4054 (S16W50) HAS PRODUCED ONLY ONE SMALL OPTICAL EVENT THIS PERIOD A SF AT 1756UT, OTHER NEW REGIONS TODAY ARE 4060 (N05E76) A H TYPE GROUP AND 4061 (S08W24) SIMPLE A TYPE. A SMALL NEGATIVE POLARITY PLAGE AREA HAS BEEN REPORTED AT (N47W04), HOWEVER NO SPOTS HAVE BEEN OBSERVED. THE REST OF THE DISK HAS BEEN LITTLE CHANGED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED THIS PERIOD. THE FIELD IS EXPECTED TO CONTINUE UNSETTLED WITH PERIODS OF QUIET LEVELS NEAR THE MIDDLE OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 13 JAN-15 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 JAN 140

PREDICTED 13 JAN-15 JAN 136/130/126

90 DAY MEAN 12 JAN 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 JAN 011/010

ESTIMATED AFR/AP 12 JAN 015/015

PREDICTED AFR/AP 13 JAN-15 JAN 010/015-008/015-008/015.

SOLTERWARN

BT