

HFUS 1 BOU 011400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 060A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 01 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
FEB 28/1200UT TO MAR 01/1200UT:

SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. REGION 2954 (S15W10) HAS DECAYED IN WHITE LIGHT AND HAS LOST MUCH OF ITS MAGNETIC COMPLEXITY. REGION 2958 (S14E16) IS STABLE AND REMAINS AWESOME BUT HAS NOT PRODUCED EVEN AN M-CLASS EVENT FOR THE PAST 36 HOURS. REGION 2960 (S15E45) IS SHOWING AN ACTIVE DARK FILAMENT AND AN ACTIVE COMPLEX NEUTRAL LINE. A NEW REGION, NOT YET NUMBERED, IS AN ACTIVE SURGE REGION TRANSITTING THE EAST LIMB AT N03 TO N08. THIS APPEARS TO BE THE RETURN OF 2930, WHICH PRODUCED 8 M-CLASS EVENTS LAST ROTATION.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH A GOOD CHANCE FOR AN X-CLASS EVENT FROM 2958. AN X-CLASS FLARE WOULD PROBABLY PRODUCE PROTONS AT EARTH.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS SLIGHTLY UNSETTLED UNTIL 0738 UT, WHEN A SUDDEN COMMENCEMENT OF 39 GAMMAS WAS RECORDED AT BOULDER. ACTIVE TO MINOR STORM CONDITIONS HAVE PREVAILED SINCE THEN. THIS EVENT IS WELL CORRELATED WITH AN X4/3B FLARE ON 26 FEB. ACTIVE TO MINOR STORM LEVELS ARE EXPECTED TO PERSIST THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 02 MARCH - 04 MARCH

CLASS M 95/95/95

CLASS X 50/45/40

PROTON 40/40/40

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 28 FEB 232

ESTIMATED 01 MAR 230

PREDICTED 02-04 MAR 235/238/240

90 DAY MEAN 28 FEB 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR 27 FEB 20 AP 28 FEB 09

ESTIMATED AFR 28 FEB 09 AFR/AP 01 MAR 23/35

PREDICTED AFR/AP 02-04 MAR 25/25 18/18 15/15

SOLTERWARN

BT

HFUS 3 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 0608

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200UT 01 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
01/1200UT TO 01/2200UT:

SOLAR ACTIVITY HAS BEEN LOW DURING THIS PERIOD. ONLY TWO
SMALL OPTICAL FLARES HAVE BEEN REPORTED, BOTH FROM REGION
2960 (S15E40).

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH A GOOD CHANCE
OF AN X-CLASS EVENT FROM 2958.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS.

THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE WITH PERIODS
NEAR MINOR STORM LEVELS DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 02-04 MARCH

CLASS M 60/80/80

CLASS X 30/40/40

PROTON 30/40/40

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 01 MAR 231

PREDICTED 02-04 MAR 235/238/240

90 DAY MEAN 01 MAR 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 28 FEB 10/09

ESTIMATED AFR/AP 01 MAR 29/25

PREDICTED AFR/AP 02-04 MAR 25/25 18/18 15/15

SOLTERWARN

BT