

HFUS 1 BOU 021400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 061A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 02 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

01/1200UT TO 02/1200UT:

SOLAR ACTIVITY HAS AGAIN REMAINED LOW FOR THE PAST 24 HOURS.

REGION 2954 (S08W22) IS NOT AS THREATENING AS IT ONCE WAS, BUT IS CONSISTENTLY PRODUCING C-CLASS SUBFLARES AND IS EXHIBITING AN ARCH FILAMENT SYSTEM WEST OF THE MAIN LEADING SPOT.

REGION 2958 (S12E01) IS MOSTLY STABLE WHILE RETAINING MAGNETIC COMPLEXITY. REGION 2960 (S13E27) HAS GROWN CONSIDERABLY AND HAS A STRONG ARCH FILAMENT SYSTEM. THE LARGEST EVENT IN THE PAST 24 HOURS WAS A C6/SN FLARE FROM 2960. TWO NEW H-TYPE SPOTS HAVE BEEN REPORTED NEAR THE EAST LIMB AT NORTH 08 AND SOUTH 09.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE, ALTHOUGH PRESENT INACTIVITY IS LEADING TO REDUCED PROBABILITIES. 2954 AND 2960 COULD YET PRODUCE SIGNIFICANT FLARES AND 2958 RETAINS THE POTENTIAL FOR A MAJOR PROTON FLARE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN ACTIVE TO MINOR STORM LEVELS FOR THE PAST 24 HOURS. A SUDDEN COMMENCEMENT WAS RECORDED IN BOULDER AT 0655 UT AND STORM LEVEL CONDITIONS ARE EXPECTED TO PERSIST THROUGH TODAY. ACTIVITY MAY DIMINISH SOMEWHAT TOMORROW AND THE NEXT DAY, BUT SHOULD RETURN TO MINOR STORM LEVELS THEREAFTER IN RESPONSE TO A RECURRENT SOUTHERN CORONAL HOLE DISTURBANCE.

III. EVENT PROBABILITIES: 03-05 MARCH

CLASS M 80/70/60

CLASS X 30/30/30

PROTON 30/30/30

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 01 MAR 231

ESTIMATED 02 MAR 235

PREDICTED 03-05 MAR 238/240/242

90 DAY MEAN 01 MAR 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR 28 FEB 10 AP 01 MAR 22

ESTIMATED AFR 01 MAR 29 AFR/AP 02 MAR 30/35

PREDICTED AFR/AP 03-05 MAR 18/18 15/15 18/18

SOLTERWARN

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HFUS 3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 061B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 02 MARCH 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

02/1200UT TO 02/2200UT:

SOLAR ACTIVITY WAS MODERATE DURING THIS PERIOD. REGION 2954 (S16W29) PRODUCED TWO M EVENTS AN M1/SB AT 1850UT AND AN M1/IN AT 2120UT. TWO NEW REGIONS WERE NUMBERED TODAY 2963 (N08E69) AND 1964 (S06E71) BOTH C TYPE.

B. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO UNSETTLED LEVELS THIS PERIOD. THE FIELD IS EXPECTED TO BE UNSETTLED DURING THE FIRST PART OF THE FORECAST THEN ACTIVE DURING THE REMAINDER OF THE FORECAST.

III. EVENT PROBABILITIES: 03-05 MARCH

CLASS M 80/70/60

CLASS X 30/30/30

PROTON 30/30/30

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 02 MAR 246

PREDICTED 03-05 MAR 243/240/240

90 DAY MEAN 02 MAR 202

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 MAR 25/22

ESTIMATED AFR/AP 02 MAR 25/26

PREDICTED AFR/AP 03-05 MAR 12/21 18/18 18/25

SOLTERWARN

BT