

HFUS 1 BOU 301300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 150A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 30 MAY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

29/1200UT TO 30/1200UT:

SOLAR ACTIVITY CONTINUES VERY LOW. THERE HAS BEEN ONLY A SINGLE CLASS C2 XRAY BURST DURING THE PAST 24 HOURS, AN EXTREME QUIET SIMILAR TO A PERIOD NEAR SOLAR CYCLE MINIMUM. REGION 3134 (N13E30) IS THE ONLY REGION SHOWING MINOR GROWTH AND FLUCTUATING INTENSITY. ITS SMALL CLASS C SPOT GROUP HAS A COMPLEX GEOMETRY. THIS HELIOGRAPHIC LOCATION WAS EXTREMELY ACTIVE TWO MONTHS AGO. REGION 3121 (N03W43) IS THE LARGEST SPOT GROUP NOW VISIBLE BUT IT IS DECLINING IN STRENGTH AND AREA.

IB. SOLAR ACTIVITY FORECAST:

ADDITIONAL GROWTH IS EXPECTED IN REGION 3134. SLOWLY INCREASING FLARE ACTIVITY AND RADIO FLUX WILL COME FROM THIS GROWTH AND THE RETURN OF MINOR REGIONS TO EAST LIMB DURING THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. NO CHANGE IN ACTIVITY IS EXPECTED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 31 MAY - 02 JUNE

CLASS M 20/25/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 29 MAY 166

ESTIMATED 30 MAY 160

PREDICTED 31 MAY-02 JUN 163/170/175

90 DAY MEAN 24 MAY 209

V. GEOMAGNETIC INDICES

OBSERVED AFR 28 MAY 16 AP 29 MAY 09

ESTIMATED AFR 29 MAY 08 AFR/AP 30 MAY 06/09

PREDICTED AFR/AP 31 MAY-02 JUN 07/08 07/08 05/08

SOLTERWARN

BT

HFUS 3:POU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLO

SDF NUMBER 1508

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 30 MAY 81

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/1200UT  
TO 30/2200UT.

SOLAR ACTIVITY HAS BEEN LOW DURING THIS PERIOD. ONLY FOUR SMALL  
(BARELY C-CLASS) SUBFAINT FLARES HAVE BEEN OBSERVED ON THE SOLAR  
DISK SINCE 1200UT.

IP. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETTLED DURING THE PAST  
10 HOURS. THE FIELD IS EXPECTED TO BE MILDLY UNSETTLED TO QUIET  
FOR THE NEXT 72 HOURS.

III. EVENT PROBABILITIES: 31 MAY - 02 JUNE

CLASS M 15/15/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 30 MAY 164

PREDICTED 31 MAY - 02 JUNE 163/170/175

90 DAY MEAN 30 209

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 MAY 07/09

ESTIMATED AFR/AP 30 MAY 09/09

PREDICTED AFR/AP 31 MAY - 02 JUNE 07/08 07/08 05/08

SOLTERWARN

BT