

HFUS 1 BOU 301300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 150A  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 30 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
29/1200Z TO 30/1200Z: SOLAR ACTIVITY HAS BEEN HIGH DURING THE  
PAST 24 HOURS. REGION 3739 WHICH IS CURRENTLY PAST THE WEST  
LIMB AT APPROXIMATELY N15W103 HAS BEEN RESPONSIBLE FOR MOST OF  
THE SIGNIFICANT FLARES OBSERVED. IT PRODUCED AN X1 AT 29/2207UT  
MAXIMUM WITH LOOPS FIRST OBSERVED AT 2313Z. ONLY MINOR DISCRETE  
FREQUENCY RADIO BURSTS WERE RECORDED AND NO SWEEP FREQUENCY  
EMISSION, PROBABLY DUE TO ITS POSITION PAST THE LIMB. AN  
UNASSOCIATED M2 AT 30/0605Z MAXIMUM WAS ALSO PROBABLY FROM  
3739. DUE TO ITS LOCATION, LITTLE IS KNOWN OF THIS REGION'S  
STRUCTURE, BUT IT IS EVIDENT THAT SIGNIFICANT DEVELOPMENT HAS  
OCCURRED DURING ITS LIMB TRANSIT. REGION 3754 (S05E46) PRODUCED  
AN M2/SN AT 0343UT MAXIMUM ALONG WITH A 242 FLUX UNIT BURST AT  
2695MHZ. THIS REGION CONTINUES UNIMPRESSIVE IN WHITE LIGHT. THE  
MOST IMPRESSIVE DISK REGION, 3753 (S04E01), HAS HAD ONLY MINOR  
ACTIVITY WHILE RAPID DECAY CONTINUES. REGION 3751 (S21W75) IS  
THE ONLY OTHER MAGNETICALLY COMPLEX REGION (BETA GAMMA), BUT  
HAS ALSO BEEN QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
MODERATE, BUT A GRADUAL TREND OF DECREASING M-CLASS FLARES IS  
EXPECTED DURING THE NEXT 3 DAYS. THE 10.7CM RADIO FLUX AND SPOT  
NUMBER IS EXPECTED TO DECLINE DURING THE FORECAST PERIOD WITH  
NO SIGNIFICANT REGIONS EXPECTED TO RETURN AT EAST LIMB.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN ACTIVE DURING THE PERIOD. A GRADUAL SETTLING HAS BEEN  
NOTICED DURING RECENT PERIODS, HOWEVER, AND IS EXPECTED TO  
CONTINUE FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 31 MAY-02 JUN

CLASS M	80/70/60
CLASS X	05/05/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	29 MAY	170
ESTIMATED	30 MAY	160
PREDICTED	31 MAY-02 JUN	157/155/153
90 DAY MEAN	29 MAY	174

V. GEOMAGNETIC A INDICES

OBSERVED AFR	28 MAY	040	AP 29 MAY	040
ESTIMATED AFR	29 MAY	030	AFR/AP 30 MAY	022/030
PREDICTED AFR/AP	31 MAY-02 JUN	014/018-012/015-010/010		

SOLTERWARN

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HFUS 3 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 150B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 30 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/1200Z TO 30/2100Z: SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST XRAY EVENT THIS PERIOD WAS C5 AT 195 Z WITHOUT OPTICAL OBSERVATIONS. THE SLOW RISE AND FALL OF FLUX SUGGESTS A LIMB EVENT, PRESUMABLY FROM REGION 3739 NOW 18 DEGREES BEYOND NW LIMB. ALL REGIONS ON THE DISK ARE SMALL, SIMPLE AND WITHOUT GROWTH. A SMALL REGION AT N18E61 HAS BEEN NUMBERED REGION 3758.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW FOR THE NEXT WEEK OR MORE.

II. GEOPHYSICAL SUMMARY AND FORECAST: A MINOR MAGNETIC STORM HAS GRADUALLY DIMINISHED DURING THIS PERIOD. UNSETTLED TO OCCASIONALLY ACTIVE CONDITIONS ARE EXPECTED FOR ANOTHER DAY UNTIL THE GREAT NORTHERN CORONAL HOLE ROTATES ITS SOLAR WIND STREAM AWAY FROM EARTH. QUIET TO UNSETTLED CONDITIONS ARE EXPECTED FOR THE BALANCE OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 31 MAY-02 JUN

CLASS M 40/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 MAY 139

PREDICTED 31 MAY-02 JUN 134/130/127

90 DAY MEAN 30 MAY 173

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 MAY 035/040

ESTIMATED AFR/AP 30 MAY 021/030

PREDICTED AFR/AP 31 MAY-02 JUN 018/025-012/015-010/010

SOLTERWARN

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NNNNZCVZEZGVZLVZOVZSV

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