

HFUS 1 BOU 241300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 144A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 24 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/1200Z TO 24/1200Z: SOLAR ACTIVITY REMAINS MODERATE. REGION 3740 (N20W23) REMAINS THE MOST SIGNIFICANT REGION ON THE DISK, ALTHOUGH, IT IS BEGINNING TO DETERIORATE. IT HAS CONTRIBUTED TWO M1/1B FLARES IN THE PAST 24 HOURS. MINOR FLARES HAVE BEEN ATTRIBUTED TO REGIONS 3743 (N24E02), 3741 (N22W13), 3746 (S16W41) AND 3749 (S21W47). NO NEW REGIONS HAVE BEEN NUMBERED SINCE THE 2100Z FORECAST.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN MODERATE. REGION 3740 IS STILL CAPABLE OF SIGNIFICANT FLARE ACTIVITY. NO OTHER REGION ON THE DISK SHOWS SUCH CAPABILITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS. ACTIVITY SHOULD INCREASE TO UNSETTLED AND FINALLY ACTIVE CONDITIONS AT THE END OF THE FORECAST PERIOD. THIS INCREASE IS DUE TO EXPECTED EFFECTS FROM THE CORONAL HOLE THAT IS PASSING THE CENTRAL MERIDIAN.

III. EVENT PROBABILITIES 25 MAY-27 MAY

CLASS M 75/65/55

CLASS X 05/05/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 MAY 155

FSTIMATED 24 MAY 152

PREDICTED 25 MAY-27 MAY 149/146/143

90 DAY MEAN 23 MAY 177

V. GEOMAGNETIC A INDICES

OBSERVED AFR 22 MAY 003 AP 23 MAY 006

FSTIMATED AFR 23 MAY 005 AFR/AP 24 MAY 008/010

PREDICTED AFR/AP 25 MAY-27 MAY 012/010-014/015-013/020

SOLTERWARN

BT

HFUS 3 BOU 242200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 144B  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 24 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
24/1200Z TO 24/2100Z: SOLAR ACTIVITY HAS BEEN LOW SINCE 1200Z.  
REGION 3740 (N21W26) CONTINUES TO DECLINE IN SPOT AREA AND  
COMPLEXITY BUT RAPID GROWTH IS REPORTED IN NEIGHBORING REGION  
3739 (N15W24). THESE TWO REGIONS HAVE INTERCONNECTING PLAGE  
AREAS AND SHARE THE SAME NEUTRAL LINE. THE GROWTH IN REGION  
3739 AND CHANGES IN THE NEUTRAL LINE BETWEEN THESE REGIONS  
COULD LEAD TO FURTHER M-CLASS FLARES. REGION 3743 (N24E02) IS  
ALSO CLOSE TO THE LARGE PLAGE AREA OF REGION 3740 AND HAS BEEN  
GROWING TODAY. ALL OTHER REGIONS ARE QUIET AND INACTIVE.

IB. SOLAR ACTIVITY FORECAST: MODERATE SOLAR ACTIVITY IS  
POSSIBLE FROM THE REGION 3740 AND 3739 COMPLEX.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN QUIET. UNSETTLED CONDITIONS ARE EXPECTED UNTIL 27 MAY WHEN  
ACTIVE CONDITIONS ARE POSSIBLE.

III. EVENT PROBABILITIES 25 MAY-27 MAY

CLASS M 75/65/55

CLASS X 05/05/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 MAY 147

PREDICTED 25 MAY-27 MAY 144/141/140

90 DAY MEAN 24 MAY 177

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 MAY 003/006

ESTIMATED AFR/AP 24 MAY 005/010

PREDICTED AFR/AP 25 MAY-27 MAY 012/010-014/015-018/020

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HXUS BOU 242200

PREDM 07525 06526 05527

PREDX 00525 00526 00127

PREDP 00125 00126 00127

PCAFT 00125

TENCM 14425 14126 14027

AFRED 01225 01426 01827

AFAPF 01025 01526 02027

BT