

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

ESTIMATED 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

ESTIMATED 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
 SOLTERWARN
 BT

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