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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 239 A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1200UT 15 OCT 1980

I.A. SOLAR ACTIVITY HAS BEEN MODERATE. A M2/2B FLARE OCCURRED AT 0552 UT IN NEW REGION 2741 (N19E56). IT WAS ACCOMPANIED BY A WEAK RADIO BURST OF 46 FU AT 2695 MHZ. THIS REGION HAS A SMALL, D-TYPE SPOT GROUP IN A LARGE SCATTERED PLAGE AND DID NOT SEEM LIKELY TO PRODUCE A LARGE FLARE. REGION 2724 (N12W61) REMAINS COMPLEX WITH MANY PLAGE FLUCTUATIONS AND CLASS C SUBFLARE THROUGHOUT THE DAY, BUT NO LARGE EVENTS. REGION 2725 (S10W20) STILL CONTAINS A DELTA CONFIGURATION IN THE SPOT GROUP BUT HAS NOT CHANGED SIGNIFICANTLY SINCE YESTERDAY. IT ALSO PRODUCED SEVERAL CLASS C SUBFLARES. AN INCREASE IN LOW ENERGY PROTONS WAS OBSERVED AT GEOSYNCHRONOUS ORBITS, BEGINNING TODAY AT 1145 UT, MAX AT 1200 UT AND DECLINING TO NEAR BACKGROUND LEVEL BY 1300 UT.

I.B. MODERATE TO HIGH SOLAR ACTIVITY IS EXPECTED TO CONTINUE WITH BOTH REGION 2724 AND 2725 CAPABLE OF MAJOR FLARES. REGION 2741 IS NOT EXPECTED TO PRODUCE FURTHER LARGE FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED SINCE A MINOR SUDDEN COMMENCEMENT (27 GAMMA) AT 14/1950 UT. ACTIVE CONDITIONS ARE EXPECTED LATE TODAY AND TOMORROW AS A RESULT OF THE X3/2B FLARE ON 14 OCT.

III. EVENT PROBABILITIES: 16 - 18 OCT

CLASS M 1.95/95/95

CLASS X 1.15/15/15

PROTON 1.15/20/20

PCAF 1.15/YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 14 OCT 252

ESTIMATED 15 OCT 240

PREDICTED 16 - 18 OCT 230/225/215

PO-DAY MEAN 14 OCT 187

V. GEOMAGNETIC A INDICES

OBSERVED AFR 13 OCT 071 AP 14 OCT 081

ESTIMATED AFR 14 OCT 07 AFR/AP 15 OCT 13/13

PREDICTED AFR/AP 16 - 18 OCT 33/33 10/12 08/10

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 289B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 15 OCTOBER 1980

I.A. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS, WITH TWO M-CLASS EVENTS. REGION 2741 (N20E43) PRODUCED AN M2/2B FLARE AT 0543Z AND REGION 2724 (N12W75) PRODUCED AN M2/1B EVENT AT 1249Z.

I.B. MODERATE LEVELS OF SOLAR ACTIVITY SHOULD CONTINUE FOR THE NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN AT MOSTLY ACTIVE LEVELS DURING THE PAST 24 HOURS.

III. EVENT PROBABILITIES 16 OCTOBER - 18 OCTOBER

CLASS M 195/95/90

CLASS X 15/15/10

PREDICTED 20/20/15

PCAF 15/15/10 YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 OCTOBER 238

PREDICTED 16-18 OCTOBER 229/22.1/2.15

90-DAY MEAN 15 OCTOBER 187

V. GEOMAGNETIC AL INDICES

OBSERVED AFR/AP 14 OCTOBER 09/08

ESTIMATED AFR/AP 15 OCTOBER 15/16

PREDICTED AFR/AP 16-18 OCTOBER 30/26 - 15/18 - 08/10

SOLTERWARN

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