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HFUS 3 BCU 151310

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

IA. 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 WERE OBSERVED AT GEOSYNCHRONOUS ORBITS, BEGINNING TODAY AT 1145 UT, MAX AT 1200 UT AND DECLINING TO NEAR BACKGROUND LEVEL BY 1300 UT.

IB. 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 UNSETTLED 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 95/95/95

CLASS X 15/15/15

PROTON 15/20/20

PCAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 14 OCT 252

ESTIMATED 15 OCT 240

PREDICTED 16 - 18 OCT 230/225/215

90 DAY MEAN 14 OCT 187

V. GEOMAGNETIC A INDICES

OBSERVED AFR 13 OCT 07 AP 14 OCT 03

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

PREDICTED AFR/AP 16 - 18 OCT 33/33 10/12 03/10

SOLTERWARN

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HFHS 1 BOH 152200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SDF NUMBER 289B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 15 OCTOBER 1980

IA. 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.

IB. 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 95/95/90

CLASS X 15/15/10

PROTON 20/20/15

PCAF 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 A 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

BT