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HFUS 1 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO

SDF NUMBER 314

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 NOVEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST 24 HOURS. THERE HAVE BEEN TWO M-CLASS AND SEVERAL C-CLASS FLARES ALL WITH REGIONS 1382 (S13W42) M2/1B AT 1404(MAX) AND REGION 1385 (N18W10 M1/2N AT 0232(MAX)). REGION 1385 HAS SHOWN GROWTH MAINLY IN CENTRAL PORTION OF REGION. REGION 1382 SLOW GROWTH IN LEADER AND JUST EAST OF TRAILERS. REGION 1382 AND 1385 ARE BOTH BETA-GAMMA WITH 1382 BECOMING MORE COMPLEX IN LEADER PORTION. NEW REGION 1394 (N25E47) B TYPE GROUP.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGIONS 1385 AND 1382 ARE BOTH CAPABLE OF PRODUCING M CLASS X-RAY EVENTS AND WITH FURTHER DEVELOPMENT A SIGNIFICANT EVENT IS POSSIBLE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUITE UNSETTLED DURING THE PAST 24 HOURS. UNSETTLED CONDITIONS EXPECTED FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 11 NOVEMBER - 13 NOVEMBER

CLASS M 60/70/70

CLASS X 10/15/20

PROTON 10/15/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 NOVEMBER 171

PREDICTED 11-13 NOVEMBER 170/169/168

90-DAY MEAN 10 NOVEMBER 151

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 09 NOVEMBER 06

ESTIMATED AFR/AP 10 NOVEMBER 06/09

PREDICTED AFR/AP 11-13 NOVEMBER 07/08 - 07/12 - 09/30

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SDF NUMBER 314

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 NOV 1979

IA. SOLAR ACTIVITY HAS BEEN HIGH. TWO SIGNIFICANT EVENTS WERE PRODUCED BY REGION 2099 (S13W19) -A CLASS X1/1B AT 0644Z AND A CLASS M2/1B AT 1832Z. THE 10.7 CM FLUX VALUE ASSOCIATED WITH THE FIRST OF THESE EVENTS WAS 1300 F.U. REGION 2113 (N16E27) PRODUCED A CLASS M2/1B EVENT AT 1323Z AND CONTRIBUTED SIGNIFICANTLY TO THE OBSERVED 10.7 CM FLUX VALUE AT 387 F.U. REGION 2114 (S17W70) PRODUCED TWO OPTICAL EVENTS OBSERVED AS 1/1B AT 1626Z AND A 1/SN AT 1753Z. REGION 2112 (N11E49) HAS BEEN AT SUBFLARE BRIGHTNESS LEVEL DURING MOST OF THIS OBSERVING DAY. AN ERUPTIVE PROMINENCE ON THE LIMB (EPL) AT SW27 EXTENDING TO .41 SOLAR RADIUS OCCURRED FROM 1700-1720Z. IN ADDITION AN ACTIVE FILAMENT ASSOCIATED WITH REGION 2114 IS CENTERED AT S10W62. ALL OTHER DISK AND LIMB FEATURES APPEAR QUIET AND STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT THE PRESENT HIGH LEVEL WITH THE GOOD POSSIBILITY OF X-CLASS FLARES FROM REGION 2099, 2106 (S15E15), AND 2114. GROWTH IN REGION 2114 HAS GREATLY INCREASED ITS FLARE POTENTIAL.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED DURING THE PAST 24 HOURS AND IS EXPECTED TO BE AT ACTIVE LEVELS DURING THE NEXT 24 HOUR PERIOD AND AT UNSETLED LEVELS FOR THE REMAINING 2 DAYS OF THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 11 NOV - 13 NOV

CLASS M 95/95/95

CLASS X 50/50/50

PROTON 25/30/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 NOV 383

PREDICTED 11 NOV - 13 NOV 350/330/310

90-DAY MEAN 10 NOV 213

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 09 NOV 13

ESTIMATED AFR/AP 10 NOV 9/12

PREDICTED AFR/AP 11 NOV - 13 NOV 18/20 15/15 11/12

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