

HFUS 130U 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO

SDF NUMBER 313

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 09 NOVEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 1382 (S13W29) HAS PRODUCED SEVERAL SUBFLARES WITH THE LARGEST BEING A C2/SN AT 1110(MAX). REGION 1385 (N18E02) PRODUCED A SN (SYMPATHETIC FLARE?) WITH A 1113 MAX TIME. REGION 1385 HAS UNDERGONE SIGNIFICANT CHANGES DURING THE PAST 24 HOURS. AN ISOLATED POLE HAS DEVELOPED NORTHEAST OF THE LARGE LEADER SPOT. A NEW LEADER POLARITY SPOT HAS GROWN RAPIDLY DURING THE PERIOD. OTHER SPOTTED REGIONS HAVE SHOWN LITTLE CHANGE. REGION 1381 CONTINUES ITS DECAY AND IS NOW SPOTLESS. NEW REGION 1393 (N24W34) IS SIMPLE AND UNIPOLAR.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW WITH BRIEF PERIODS OF MODERATE ACTIVITY DURING THE FORECAST PERIOD. THE 1385/1392 COMPLEX IS CAPABLE OF PRODUCING A SIGNIFICANT EVENT AS STRUCTURAL CHANGES CONTINUE. REGION 1382 IS A LARGE MATURE GROUP AND ALSO CAPABLE OF PRODUCING A LARGE FLARE.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24 HOURS. UNSETTLED TO OCCASIONALLY QUIET CONDITIONS WILL PERSIST THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 10 NOVEMBER - 12 NOVEMBER

CLASS M 60/60/60

CLASS X 05/10/15

PROTON 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 NOVEMBER 170

PREDICTED 10-12 NOVEMBER 169/167/165

90 DAY MEAN 09 NOVEMBER 151

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 NOVEMBER 11

ESTIMATED AFR/AP 09 NOVEMBER 07/07

PREDICTED AFR/AP 10-12 NOVEMBER 07/08 - 06/09 - 08/10

SOLTERWARN

BT

HFUS 1 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 313

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 09 NOVEMBER 1979

IA. SOLAR ACTIVITY HAS BEEN HIGH. A CLASS X1/IB EVENT AT 0306Z PRODUCED STRONG RADIO BURSTS AT ALL FREQUENCIES WITH STRONG TYPE II AND TYPE IV SIGNATURES. 10 CM FLUX REACHED 1700 F. U. THE EVENT OCCURRED IN REGION 2099 (S14W05) WHICH CONTINUES WITH A GIANT CLASS F SPOT GROUP AND WHICH HAS DEVELOPED ADDITIONAL MAGNETIC COMPLEXITY SINCE YESTERDAY. A CLASS M6 EVENT OCCURRED HERE AT 0602Z. REGION 2110 (N32E44) PRODUCED A CLASS M1 EVENT AT 1929Z ITS CLASS E SPOT GROUP APPEARS AS A MERGER BETWEEN TWO REGIONS AND GROWTH HAS BEEN REPORTED HERE. REGION 2114 (S19W48) IS ALSO GROWING AND IS INTERACTING WITH THE LARGE CLASS E SPOT GROUP AT S21W42 (REGION 2100). REGION 2106 (S15E29) IS LITTLE CHANGED AND IS NEARLY AS LARGE AS REGION 2099. REGION 2112 (N13E68) IS CLASS E AND CONTAINS AN ACTIVE FILAMENT. A CLASS M2 EVENT OCCURRED IN REGION 2114 AT 2144Z 10.7 CM FLUX REMAINS EXTREMELY HIGH.

IB. MAJOR FLARES WILL CONTINUE THROUGHOUT THIS FORECAST PERIOD.
II. THE GEOMAGNETIC FIELD GRADUALLY BECAME ACTIVE AFTER 1200Z IN APPARENT RESPONSE TO THE X1 FLARE OF 08/1118Z. MINOR STORM CONDITIONS WILL BE REINFORCED TOMORROW AS EFFECTS ARRIVE FROM TODAY'S ACTIVITY.

III. EVENT PROBABILITIES 10-12 NOVEMBER

CLASS M 95/95/95

CLASS X 40/40/40

PROTON 20/25/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 NOV 325

PREDICTED 10-12 NOV 335/325/315

90-DAY MEAN 09 NOV 210

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 NOV 15

ESTIMATED AFR/AP 09 NOV 17/17

PREDICTED AFR/AP 10-12 NOV 35/35 15/20 15/15

SOLTERWARN

BT