

HXUS 1 BOU 101300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 314A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 10 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/1200Z TO 10/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE FOR THE OBSERVING PERIOD. IN ADDITION TO THE M3/1B OF 09/1312Z MAX. OUT OF REGION 3450(S19E03), AN UNASSOCIATED M1 FLARE OCCURRED AT 10/0551Z MAX. REGION 3444 (S15W27) PRODUCED A C3/1B FLARE AT 09/2025Z MAX. OTHER ACTIVITY WAS LIMITED SMALL C CLASS XRAY AND SUB CLASS OPTICAL EVENTS. REGION 3432(S09W79) CONTINUES TO DECAY AS IT MOVES ONTO THE WEST LIMB. LEFT BEHIND ARE SEVERAL REGIONS WITH FLARE CAPABILITY. THE LARGEST 3450(S19E15) AT 500 MILLIONTHS AREA HAS STABILIZED AND FAILS TO SHOW THE DEGREE OF COMPLEXITY THAT WOULD SUGGEST MAJOR EVENTS. 3444(S15W27) HAS ALSO STABILIZED AS A SIMPLE REGION OF 200 MILLIONTHS. REGION 3451(N13E24) IS CURRENTLY MORE MODEST IN AREA BUT IS DEVELOPING IN SIZE AND COMPLEXITY, MAY HAVE DEVELOPED A DELTA AND THEREFORE DESERVES ATTENTION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY MAY BE EXPECTED TO CONTINUE MODERATE. WHILE NO ONE REGION MAY BE EXPECTED TO CONTRIBUTE HEAVILY TO SOLAR ACTIVITY DURING THE FORECAST PERIOD, THE NUMBER OF REGIONS CAPABLE OF SIGNIFICANT ACTIVITY IS LARGE ENOUGH TO SUGGEST A FAIRLY STEADY OUTPUT AT MODERATE LEVELS FOR THE NEXT FEW DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND IS EXPECTED TO STAY AT MORE OR LESS UNSETTLED LEVELS FOR THE FORECAST PERIOD. HOWEVER, RECENT SOLAR ACTIVITY MAY CAUSE BRIEF ACTIVE LEVELS TO OCCUR WITHIN THE PERIOD.

III. EVENT PROBABILITIES 11 NOV-13 NOV

CLASS M 70/70/70

CLASS X 10/10/10

PROTON 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 NOV 237

ESTIMATED 10 NOV 231

PREDICTED 11 NOV-13 NOV 227/223/213

90 DAY MEAN 09 NOV 229

V. GEOMAGNETIC A INDICES

OBSERVED AFR 08 NOV 027 AP 09 NOV 007

ESTIMATED AFR 09 NOV 009 AFR/AP 10 NOV 015/014

PREDICTED AFR/AP 11 NOV-13 NOV 015/020-015/020-010/010

SOLTERWARN

BT

HXUS BOU 101300

PREDM 07011 07012 07013

PREDX 01011 01012 01013

PREDP 00511 00512 01013

PCAFI 00111

TENCM 22711 22312 21813

AFred 01511 01512 01013

AFAPF 02011 02012 01013

KKK 43343 33223 34333

BT

END OF BUFFER

HXUS 3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 314B

POINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 10 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/1200Z TO 10/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY CLASS C XRAY EVENTS REPORTED. REGION 3432(S09W83) IS DECAYING BUT CONTINUES TO PRODUCE SMALL FLARES AS IT ROTATES BEYOND WEST LIMB. THE LARGEST FLARE FROM THIS REGION WAS A C6/SN AT 1903Z. REGION 3451(N18E03) IS GROWING RAPIDLY AND HAS DOUBLED IN SPOT GROUP SIZE TO A CLASS/AREA D/300 SINCE YESTERDAY. A LONG LIVED C4/1B FLARE BEGAN IN THIS REGION AT 1453Z. THE SPOT GROUP IN REGION 3450(S20W01) IS RESTRUCTURING BUT NO INCREASE IN OTHER ACTIVITY HAS BEEN OBSERVED. SMALL NEW REGION 3459(N13W1?) WAS NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO RETURN TO A MODERATE LEVEL DURING THE FORECAST PERIOD WITH CLASS M EVENTS POSSIBLE FROM REGIONS 3450 AND 3451.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED AND IS EXPECTED TO REMAIN UNSETLED FOR THE NEXT 3 DAYS.

III. EVENT PROBABILITIES 11 NOV-13 NOV

CLASS M 70/70/70

CLASS X 10/10/10

PROTON 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 NOV 226

PREDICTED 11 NOV-13 NOV 220/216/212

90 DAY MEAN 10 NOV 229

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 NOV 006/007

ESTIMATED AFR/AP 10 NOV 014/013

PREDICTED AFR/AP 11 NOV-13 NOV 015/020-015/020-010/010

SOLTERWARN

BT

HXUS BOU 102200

PREDM 07011 07012 07013

PREDX 01011 01012 01013

PREDP 00511 00512 01013

PCAFF 00111

TENCM 22011 21612 21213

AFRED 01511 01512 01013

AFAPP 02011 02012 01013

BT