

HFUS 1 BOU 111300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 315A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 11 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/1200Z TO 11/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. AN M2/2B FLARE AT 1751Z OCCURRED IN REGION 3987(S13E52) WITH ONLY MINOR RADIO EMISSION. THIS REGION HAS GROWN SLIGHTLY AND NOW INTERCONNECTS STRONGLY WITH REGION 3990 (S07E45). TWO DELTA CONFIGURATIONS ARE REPORTED WITHIN THIS EKI SPOT GROUP BUT WITH WEAKENING GRADIENTS IN THEIR MAGNETIC FIELDS. SUBFLARES HAVE BEEN OCCURRING IN THIS REGION AT INTERVALS OF 30 MINUTES IN RECENT HOURS. MINOR SPOT GROWTH IS REPORTED IN REGION 3978(N26W07) AND REGION 3981(N21W47). THESE REGIONS WERE SPOTLESS IN THE PAST COUPLE OF DAYS. A PORTION OF A LARGE FILAMENT AT N42W40 DISAPPEARED EARLY ON 10 NOVEMBER. IT LAY ADJACENT TO THE NORTHERN BORDER OF A CORONAL HOLE. AN ACTIVE PROMINENCE IS REPORTED AT SE25.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE AS REGION 3987 CONTINUES TO DEVELOP. AN ADDITIONAL REGION WITH POTENTIAL FOR CLASS M ACTIVITY IS EXPECTED TO RETURN TO SE LIMB ON 14 NOVEMBER. PROTON EMISSION SHOULD BE EXPECTED IF FLARE INTENSITY APPROACHES CLASS X.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS UNSETTLED TO OCCASIONALLY ACTIVE. SIMILAR CONDITIONS ARE EXPECTED FOR ANOTHER 24 HOURS BEFORE ACTIVE CONDITIONS COMMENCE AS A RESULT OF STRONGER SOLAR WIND. MINOR STORM CONDITIONS ARE EXPECTED BY 14 NOVEMBER AS A RESULT OF THE FILAMENT ERUPTION NEAR A LARGE CORONAL HOLE.

III. EVENT PROBABILITIES 12 NOV-14 NOV

CLASS M 70/80/90

CLASS X 10/15/15

PROTON 10/15/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 NOV 156

ESTIMATED 11 NOV 158

PREDICTED 12 NOV-14 NOV 160/162/170

90 DAY MEAN 10 NOV 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR 09 NOV 011 AP 10 NOV 011

ESTIMATED AFR 10 NOV 010 AFR/AP 11 NOV 015/015

PREDICTED AFR/AP 12 NOV-14 NOV 015/015-018/020-025/025

SOLTERWARN

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HFUS 3 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 315B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/1200Z TO 11/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THIS PERIOD, CONFINED TO A FEW LOW LEVEL CLASS C X-RAY BURSTS. REGION 3987 (S12E45) CONTINUES ITS EVOLUTION OF INCREASING GROWTH AND COMPLEXITY. MODERATE GRADIENTS EXIST IN THE CENTRAL PORTION ASSOCIATED WITH THE DELTA CONFIGURATION. REGION 3987 CONTINUES A SLOW EXPANSION NORTHWARD, ENCROACHING TOWARD UNIPOLAR REGION 3990 (NS07E40). THOUGH REGION 3979 (N11W29) IS DECAYING, PLAGE HAS SPREAD TO COVER THE PENUMBRA OF THE LARGE LEADER SPOT. REGION 3991 (N08E37) HAS EMERGED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH REGION 3987 POSING AN INCREASING THREAT FOR MAJOR FLARE ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. ACTIVE CONDITIONS ARE EXPECTED TO CONTINUE THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 12 NOV-14 NOV

CLASS M 70/80/90

CLASS X 10/15/15

PROTON 10/15/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 NOV 157

PREDICTED 12 NOV-14 NOV 160/162/170

90 DAY MEAN 11 NOV 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 NOV 010/011

ESTIMATED AFR/AP 11 NOV 015/015

PREDICTED AFR/AP 12 NOV-14 NOV 015/015-018/025-025/025

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