

HFUS 1 BOU 161300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 320A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 16 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/1200Z TO 16/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. TWO REGIONS HAVE CONTRIBUTED TO SIGNIFICANT ACTIVITY THIS PERIOD. REGION 3987(S10W16) PRODUCED THE FOLLOWING FLARES: M1/1B AT 15/1601Z, C3/0B AT 15/1832Z, C2/2N AT 15/2130Z AND AN M2/1N AT 16/0340Z. REGION 3994(S14E45) FLARED TO C8/0B AT 16/0257Z.

REGION 3987 HAS REMAINED PLAGE ENHANCED SINCE FLARING AND XRAY BACKGROUND HAS BEEN SOMEWHAT ELEVATED. THE REGION IS REPORTED TO BE STABLE AND VERY COMPLEX WITH AT LEAST TWO DELTAS STILL PRESENT. THE REGION APPEARS CAPABLE OF MAJOR FLARE ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN MODERATE WITH A POSSIBLE MAJOR FLARE RAISING ACTIVITY TO A HIGH LEVEL BRIEFLY. OTHER REGIONS APPEAR INCAPABLE OF MAJOR ACTIVITY. WITH THE EXCEPTION OF REGION 3994, M CLASS FLARE SOURCES APPEAR ABSENT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. RECENT FLARE ACTIVITY HAS FAILED TO INFLUENCE THE FIELD AS EXPECTED. UNSETLED CONDITIONS SHOULD CONTINUE THROUGH THE FORECAST PERIOD. MAJOR FLARE ACTIVITY IF IT OCCURS AND CAUSES A GEOMAGNETIC RESPONSE SHOULD SHOW THIS RESPONSE ONLY AFTER THE END OF THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 17 NOV-19 NOV

CLASS M 90/80/80

CLASS X 20/20/20

PROTON 20/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 NOV 161

ESTIMATED 16 NOV 158

PREDICTED 17 NOV-19 NOV 156/155/155

90 DAY MEAN 15 NOV 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR 14 NOV 011 AP 15 NOV 013

ESTIMATED AFR 15 NOV 012 AFR/AP 16 NOV 012/020

PREDICTED AFR/AP 17 NOV-19 NOV 012/020-012/020-012/020

SOLTERWARN

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HFUS 3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 320B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 16 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/1200Z TO 16/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE THIS PERIOD. THE LARGEST FLARE WAS A M2/1B AT 2114Z FROM REGION 3987 (S11W23). ALL OTHER REGIONS WERE QUIET DURING THE PERIOD. REGION 3987 HAS DECREASED SLIGHTLY IN WHITE LIGHT AREA, BUT RETAINS ITS BETA-GAMMA-DELTA MAGNETIC CONFIGURATION

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE THROUGHOUT THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED THIS PERIOD. AT MID LATITUDES THE FIELD IS EXPECTED TO REMAIN UNSETLED, BUT OVERALL IT IS EXPECTED TO BECOME ACTIVE.

III. EVENT PROBABILITIES 17 NOV-19 NOV

CLASS M 90/80/80

CLASS X 20/20/20

PROTON 20/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 NOV 167

PREDICTED 17 NOV-19 NOV 167/167/167

90 DAY MEAN 16 NOV 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 NOV 013/013

ESTIMATED AFR/AP 16 NOV 009/012

PREDICTED AFR/AP 17 NOV-19 NOV 012/020-012/020-012/020

SOLTERWARN

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