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HFUS 1 BOU 131300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 347A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 13 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/1200Z TO 13/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE THIS PERIOD DUE TO A M2, NO OPTICAL, AT 12/1704UT ONLY MINOR RADIO WAS OBSERVED WITH THIS EVENT. A C9, AGAIN NO OPTICAL, OCCURRED AT 13/1101UT. ALTHOUGH OBSERVATIONS HAVE BEEN LIMITED, DUE TO WEATHER, A GENERAL DECLINE IN REGION SIZE AND MAGNETIC COMPLEXITY HAS BEEN OBSERVED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE MODERATE FOR THE NEXT 24 HOURS. WITH ONLY A CHANCE FOR AN ISOLATED M-CLASS EVENT FOR THE REST OF THE FORECAST PERIOD, AS THE GENERAL DECAY OF THE ACTIVE REGIONS IS EXPECTED TO CONTINUE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE THIS PERIOD. THE FIELD IS EXPECTED TO BE UNSETTLED WITH OCCASIONAL ACTIVE PERIODS DURING THIS FORECAST.

III. EVENT PROBABILITIES 14 DEC-16 DEC

CLASS M 60/50/40

CLASS X 05/05/01

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 DEC 260

ESTIMATED 13 DEC 246

PREDICTED 14 DEC-16 DEC 234/222/212

90 DAY MEAN 12 DEC 221

V. GEOMAGNETIC A INDICES

OBSERVED AFR 11 DEC 004 AP 12 DEC 019

ESTIMATED AFR 12 DEC 018 AFR/AP 13 DEC 012/019

PREDICTED AFR/AP 14 DEC-16 DEC 012/012-010/010-012/012

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HFUS 3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 347B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 13 DECEMBER 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/1200Z TO 13/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. A C9 X-RAY FLARE IN REGION 3507 (S07W33) AT 13/1905Z WAS THE ONLY SIGNIFICANT EVENT. ONE NEW REGION WAS OBSERVED, 3511 (N12E55). WEATHER HAS AGAIN LIMITED MOST OPTICAL OBSERVATIONS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE FOR THE NEXT TWO DAYS, BECOMING LOW ON 16 DECEMBER DUE TO THE LOSS OF REGIONS 3492 (N19W72) AND 3496 (N08W72).

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE PAST 24 HOURS. LITTLE CHANGE IS EXPECTED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 14 DECEMBER - 16 DECEMBER

CLASS M 60/50/40

CLASS X 05/05/01

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 DECEMBER 226

PREDICTED 14-16 DECEMBER 216/200/185

90-DAY MEAN 13 DECEMBER 221

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 DECEMBER 17/19

ESTIMATED AFR/AP 13 DECEMBER 14/19

PREDICTED AFR/AP 14-16 DECEMBER 12/12 - 10/10 - 12/12

SOLTERWARN

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