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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SD F NUMBER 364A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1200UT 29 DEC 1980

I A. SOLAR ACTIVITY HAS INCREASED SLIGHTLY INTO THE MODERATE LEVEL. REGION 2855 (S24W10) HAS PRODUCED AN M1/SB WITH MODEST RADIO EMISSION, AS WELL AS 1B AND 1N FLARES WITH C CLASS XRAY EMISSION ALSO ACCCOMPANIED BY SMALL RADIO RESPONSES. NUMEROUS SUBLARES HAVE ALSO OCCURRED IN THIS REGION. REGIONS 2857 (S08E10) AND 2866 (N16W03) HAVE ALSO PRODUCED SUBCLASS FLARES WITH ASSOCIATED C CLASS XRAY. OTHER REGIONS ARE ESSENTIALLY UNREMARKABLE. PERSISTENT ACTIVITY MAY SUCCEED IN DISIPATING REGION 2855 OVER A PERIOD OF DAYS WITHOUT EVENTS OF GREAT INTENSITY. WHILE THE POTENTIAL OF REGION 2857 APPEARS TO EXCEED CURRENT ACTIVITY.

I B. MODERATE SOLAR ACTIVITY IS EXPECTED TO CONTINUE. REGIONS 2855, 2857 SHOULD PROVIDE THE MAJOR PART OF IT, WITH LESS FREQUENT BUT POSSIBLY MORE ENERGETIC EVENTS ARISING IN 2857.

II. THE GEOMAGNETIC FIELD HAS BECOME UNSETTLED IN RECENT HOURS AND SHOULD REMAIN AT UNSETTLED LEVELS FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 30 DEC - 01 JAN

CLASS M 5 0/55/60

CLASS X 02/02/05

PROTON 01/01/02

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 28 DEC 244

ESTIMATED 29 DEC 244

PREDICTED 30 DEC-01 JAN 244/242/240

90 DAY MEAN 28 DEC 217

V. GEOMAGNETIC INDICES

OBSERVED AFR 27 DEC 11 AP 28 DEC 04

ESTIMATED AFR 28 DEC 04 AFR/AP 29 DEC 08/07

PREDICTED AFR/AP 30 DEC-01 JAN 09/09 10/12 12/12

SOLTERWARN

BT

HFUS 1 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 364B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200UT 29 DEC 1980

IA. SOLAR ACTIVITY HAS INCREASED SLIGHTLY INTO THE MODERATE LEVEL. REGION 2855 (S24W10) HAS PRODUCED AN M1/SB WITH MODEST RADIO EMISSION, AS WELL AS 1B AND 1N FLARES WITH C CLASS XRAY EMISSION ALSO ACCCOMPANIED BY SMALL RADIO RESPONSES. NUMEROUS SUBFLARES HAVE ALSO OCCURRED IN THIS REGION. REGIONS 2857 (S~8E10) AND 2866 (N18W03) HAVE ALSO PRODUCED SUBCLASS FLARES WITH ASSOCIATED C CLASS XRAY. OTHER REGIONS ARE ESSENTIALLY UNREMARKABLE. PERSISTENT ACTIVITY MAY SUCCEED IN DISIPATING REGION 2855 OVER A PERIOD OF DAYS WITHOUT EVENTS OF GREAT INTENSITY. WHILE THE POTENTIAL OF REGION 2857 APPEARS TO EXCEED CURRENT ACTIVITY.

ADDITIONS TO 1200Z FORECAST: REGION 2855 PRODUCED AN M1/2B FLARE AT 1131UT, AN M2/2B FLARE AT 1309 WITH SECOND XRAY MAXIMUM OF M1 AT 1322 UT AND AN M1/SN FLARE AT 1454 UT. NEW REGION 2869 (N11E68) CONTAINS A SMALL H TYPE SPOT GROUP.

IB. MODERATE SOLAR ACTIVITY IS EXPECTED TO CONTINUE. REGIONS 2855, 2857 SHOULD PROVIDE THE MAJOR PART OF IT, WITH LESS FREQUENT BUT POSSIBLY MORE ENERGETIC EVENTS ARISING IN 2857.

II. THE GEOMAGNETIC FIELD HAS BECOME UNSETTLED IN RECENT HOURS. AND SHOULD REMAIN AT UNSETTLED LEVELS FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 30 DEC - 01 JAN

CLASS M 5.0/55/60

CLASS X 02/02/05

PROTON 01/01/02

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 29 DEC 225

PREDICTED 30 DEC - 01 JAN 222/220/218

9 DAY MEAN 29 DEC 217

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 28 DEC 04/04

ESTIMATED AFR/AP 29 DEC 08/07

PREDICTED AFR/AP 30 DEC - 01 JAN 09/09 10/12 12/12

SOLTERWARN

BT