

SDF NUMBER 337A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 03 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200Z TO 03/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS AS THE LARGER ACTIVE REGIONS HAVE DECAYED. MINOR SPOT GROWTH IN THE INTERIOR OF REGION 3484 (N16W45) MAINTAINS SOME FLARE POTENTIAL IN THIS SLIGHTLY COMPLEX CLASS E SPOT GROUP. A RAPID DECREASE IN THE NUMBER OF SPOTS IN REGION 3477 (S11W29) HAS BEEN ACCCOMPANIED BY A SHARP REDUCTION IN SUBFLARES. A LOW-FREQUENCY RADIO NOISE STORM CONTINUES IN THE CORONA ABOVE THIS REGION. INTEREST IS SHIFTING TO REGION 3492 (N19E67) AS IT NOW APPEARS TO HAVE SOME ANOMALIES IN ITS MAGNETIC STRUCTURE. ITS SPOT GROUP IS A MODERATE-SIZED CLASS D. AN IMBEDDED FILAMENT ADDS TO THE EXPECTATION OF FLARES. REGION 3487 (N07E42) IS SLIGHTLY SMALLER THAN REGION 3492 AND RELATIVELY SIMPLE IN STRUCTURE. THE TEN ADDITIONAL SPOTTED REGIONS NOW VISIBLE ARE ALL SMALL AND INACTIVE. NEW REGIONS ADDED TODAY INCLUDE: REGION 3493 (S17E42), REGION 3494 (S31E64) AND REGION 3495 (S16W60). A SMALL BRIGHT REGION HAS FORMED AT S10 JUST AS IT CROSSES WEST LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW WITH ONLY AN ISOLATED SMALL CLASS M EVENT ONCE OR TWICE DURING THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. CONDITIONS ARE EXPECTED TO GRADUALLY BECOME MORE UNSETTLED THROUGHOUT THE NEXT DAY, DEVELOPING TO SLIGHTLY ACTIVE LEVELS BY DECEMBER 5.

III. EVENT PROBABILITIES 04 DEC-26 DEC

CLASS M 50/50/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 DEC 241

ESTIMATED 03 DEC 231

PREDICTED 04 DEC-06 DEC 227/222/217

90 DAY MEAN 02 DEC 217

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 DEC 007 AP 02 DEC 008

ESTIMATED AFR 02 DEC 007 AFR/AP 03 DEC 006/008

PREDICTED AFR/AP 04 DEC-26 DEC 011/015-015/018-012/015

SOLTERWARN

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SDF NUMBER 337B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/1200Z TO 03/2100Z: SOLAR ACTIVITY WAS MODERATE DURING THIS PERIOD. REGION 3484 (N17W50) PRODUCED A M1/SB EVENT AT 1743UT. VERY LITTLE RADIO WAS OBSERVED WITH THIS EVENT. SEVEN NEW REGION HAVE BEEN OBSERVED TODAY 3493 (S17E35), 3494 (S32E59), 3495 (S16W65), 3496 (N07E64), 3497 (S21E68), 3498 (S14E77) AND 3499 (N13E76)

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT OR NEAR MODERATE LEVELS DURING THIS FORECAST PERIOD. REVERSE POLARITY REGION 3492 (N18E63) IS OLD REGION 3451 WHICH PRODUCED 8 M-CLASS AND 1 X-CLASS EVENTS LAST ROTATION. REGION 3492 MAY AGAIN BE A SOURCE OF M-CLASS ACTIVITY THIS PASSAGE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO SLIGHTLY ACTIVE THIS PERIOD. THE FIELD IS EXPECTED TO CONTINUE UNSETLED TO ACTIVE DURING THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 04 DEC-06 DEC

CLASS M 65/65/65

CLASS X 01/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 DEC 246

PREDICTED 04 DEC-06 DEC 250/246/238

90 DAY MEAN 03 DEC 218

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 DEC 008/008

ESTIMATED AFR/AP 03 DEC 012/008

PREDICTED AFR/AP 04 DEC-06 DEC 011/015-015/018-012/015

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