

HFUS 1 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO.

SDF NUMBER 341

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 07 DECEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN AT A MODERATE LEVEL FOR THE PAST 24 HOURS. TWO CLASS M X-RAY FLARES HAVE BEEN OBSERVED. THE FIRST WAS AN M3 AT 0955 U.T. UNCORRELATED BY OPTICAL SIGHTINGS. THE LATTER WAS AN M2 (UNKNOWN OPTICAL CLASS) WHICH OCCURRED AT 1939 U.T. IN REGION 1444 (S15E66). THIS IS A LARGE SUNSPOT GROUP WHICH HAS EMERGED IN PREVIOUSLY INACTIVE LONGITUDES. THE 1429 (S18W53)/1432 (S21W42) COMPLEX IS DECAYING AND APPEARS TO BE LOSING SOME OF ITS FLARE POTENTIAL. REGION 1446 (N22E64) ALTHOUGH NOT A COMPLEX SPOT GROUP HAS BEEN ENHANCED TODAY IN SEVERAL WAVELENGTHS. A SIMPLE NEW REGION HAS BEEN OBSERVED AND HAS BEEN NUMBERED 1447 (S17W00).

IB. SOLAR ACTIVITY SHOULD BE AT A MODERATE LEVEL FOR THE FORECAST PERIOD. WHILE THE 1429/1432 COMPLEX IS STILL CAPABLE OF PRODUCING MAJOR FLARES A MORE LIKELY SOURCE IS REGION 1444.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD SHOULD REMAIN QUIET UNTIL 9 DECEMBER WHEN UNSETTLED CONDITIONS SHOULD BE EXPERIENCED. STATISTICALLY, THE FIELD SHOULD BE SLIGHTLY LESS ACTIVE FOR THE NEXT TWO MONTHS DUE TO THE SEMIANNUAL WAVE PHENOMENA.

III. EVENT PROBABILITIES 08 DECEMBER - 10 DECEMBER

CLASS M 80/80/80

CLASS X 20/20/20

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 DECEMBER 186

PREDICTED 08-10 DECEMBER 185/182/178

90-DAY MEAN 07 DECEMBER 157

V. GEOMAGNETIC A. INDICES

OBSERVED FREDERICKSBURG 06 DECEMBER 04

ESTIMATED AFR/AP 07 DECEMBER 02/03

PREDICTED AFR/AP 08-10 DECEMBER 05/08 - 10/12 - 12/16

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NFUS 11 BOU 072200  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 341

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 07 DECEMBER 1979

IA. SOLAR ACTIVITY WAS AGAIN AT LOW LEVELS DURING THE PAST 24 HOURS. ONLY SUBFLARES WERE OBSERVED TODAY, AND THESE EVENTS WERE PRETTY MUCH SCATTERED AMONG SEVERAL UNINTERESTING REGIONS. THE LARGEST X-RAY EVENT WAS A C8/SUBNORMAL OPTICAL FLARE AT 0156Z FROM REGION 2156 (S27W35). ON THE EAST LIMB TWO NEW REGIONS WERE REPORTED - REGION 2175 (N14E68) AND REGION 2176 (N18E69). BOTH OF THESE HAVE A BETA CLASS MAGNETIC CONFIGURATION.

IB. SOLAR ACTIVITY IS FORECAST TO REMAIN AT LOW LEVELS FOR THE NEXT 24 HOURS. THE NEW REGIONS ON THE EAST LIMB MAY LEAD TO INCREASED ACTIVITY, BUT THEIR EXACT POTENTIAL CANNOT BE DETERMINED AT THIS TIME.

II. THE GEOMAGNETIC FIELD HAS BEEN AND WILL REMAIN AT QUIET LEVELS UNTIL 9 DEC, WHEN THE EFFECTS OF A SOLAR SECTOR BOUNDARY CROSSING AND CORONAL HOLE WILL LEAD TO INCREASED ACTIVITY.

III. EVENT PROBABILITIES 08-10 DEC

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 DEC 23.0

PREDICTED 08-10 DEC 232/231/22.6

90-DAY MEAN 07 DEC 22.0

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 06 DEC 05

PREDICTED AFR/AP 07 DEC 03/05

PREDICTED AFR/AP 08-10 DEC 06/10 - 16/20 - 16/20

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