

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 (S15E 66). 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 (N22E 64)
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 (S17W 00).

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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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 230

PREDICTED 08-10 DEC 232/231/226

90-DAY MEAN 07 DEC 220

V. GEOMAGNETIC AINDICES

OBSERVED FREDERICKSBURG 06 DEC 05

ESTIMATED AFR/AP 07 DEC 03/05

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

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