

HFUS 1 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO

SDF NUMBER 335

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 01 DECEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS.

THE 1429 (S18E29)/1432 (S19E36) COMPLEX CONTINUE TO SHOW GROWTH AND HAVE PRODUCED SEVERAL SUBFLARES AND ASSOCIATED C CLASS X-RAY EVENTS. THE MOST ENERGETIC A SB/C6 FROM 1429 AT 1955 UT. NEW REGIONS 1434 (S27W37 AND 1435 (N23E67) ARE C AND H TYPE GROUPS RESPECTIVELY. THE SMALL SPOTS NEAR REGION 1417 (N11E00) ARE ACTUALLY TRAILERS OF REGION 1424 (N13W06). REGION 1424 IS AN ELOUGATED C GROUP AND 1417 IS AN H GROUP WITH ONE SPOT.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE NEXT 24 HOURS. THE 1429/1432 COMPLEX REMAINS THE MOST LIKELY CANDIDATE FOR PRODUCING ENERGETIC EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE LAST 24 HOURS. UNSETTLED CONDITIONS WITH ACTIVE PERIODS ARE EXPECTED TO PERSIST WITH THE GEOMAGNETIC FIELD REACHING QUIET LEVELS BY THE END OF THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 02-04 DECMEBER

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 DECEMBER 171

PREDICTED 02-04 DECEMBER 170/170/166

90-DAY MEAN 01 DECEMBER 157

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 30 NOVEMBER 03

ESTIMATED AFR/AP 01 DECEMBER 09/10

PREDICTED AFR/AP 02-04 DECEMBER 10/14 - 15/17 - 07/10

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SDF NUMBER 335

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 01 DECEMBER 1979

IA. SOLAR ACTIVITY REMAINED AT A LOW LEVEL FOR YET ANOTHER DAY.  
THE MOST SIGNIFICANT EVENTS OF THE PAST 24 HOURS WERE LOW LEVEL  
CLASS C X-RAY ENHANCEMENTS. THESE WERE THOUGHT TO ORIGINATE IN  
REGION 2159 (S15E59). MINOR PLAGE FLUCTUATIONS HAVE OCCURRED IN  
THIS REGION. THE REMAINING DISK REGIONS APPEAR TO BE STABLE OR  
DECLINING. A NEW REGION, 2161 (S24E8) HAS ROTATED ONTO THE DISK  
AS A SMALL SPOT GROUP. THE FILAMENT NEAR N25W45 IS ACTIVE.  
SURGE ACTIVITY HAS BEEN REPORTED NEAR S14 TO N02 ON THE EAST  
LIMB.

IB. SOLAR ACTIVITY IS EXPECTED TO INCREASE THRU THE FORECAST  
PERIOD MAINLY DUE TO REGIONS RETURNING TO THE EAST LIMB.  
CURRENT DISK REGIONS ARE EXPECTED TO CONTINUE TO BE RELATIVELY  
QUIET.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO QUIET THE  
PAST 24 HOURS. QUIET CONDITIONS ARE EXPECTED FOR MOST OF THE  
FORECAST PERIOD.

III. EVENT PROBABILITIES 02-04 DEC

CLASS M 15/20/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 DEC 167

PREDICTED 02-04 DEC 170/174/180

90-DAY MEAN 01 DEC 218

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 30 NOV 06 14

ESTIMATED AFR/AP 01 DEC 06/10

PREDICTED AFR/AP 02-04 DEC 06/08 - 05/08 - 08/12

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