

HFUS TBOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 337

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 03 DECEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE LAST 24  
HOURS. SEVERAL C CLASS XRAY FLARES WITH NO OPTICAL WERE OBSERVED  
THROUGH THE FIRST HALF OF THE PERIOD, AND THEN LITTLE ACTIVITY  
UNTIL 2028Z WHEN A M1/SB FLARE WAS OBSERVED FROM REGION 1442

(S24E60). THE FLARE MAXED AT 2033Z. REGION 1429 (S18W00) HAD A  
SF FLARE MAXING AT 1546Z. SEVERAL SPOTED REGIONS SEEN YESTERDAY  
AS A AND B TYPES HAVE DECAYED AND ARE SPOTLESS TODAY.

IB. SOLAR ACTIVITY WILL BE LOW WITH BRIEF PERIODS OF MODERATE  
ACTIVITY DURING THE NEXT 24 HOURS. THE 1429/1432 COMPLEX (CENTERED  
AT S19E06) WILL BE THE MOST ACTIVE AREA WITH REGION 1442 CAPABLE  
OF SMALL ENERGETIC EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN VERY QUIET DURING THE LAST  
24 HOURS. MAGNETIC ACTIVITY IS EXPECTED TO INCREASE SLIGHTLY,  
BUT REMAIN IN THE QUIET CATEGORY.

III. EVENT PROBABILITIES 04 DECEMBER - 06 DECEMBER

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 DECEMBER 169

PREDICTED 04 - 06 DECEMBER 167/165/163

90-DAY MEAN 03 DECEMBER 157

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 02 DECEMBER 00

ESTIMATED AFR/AP 03 DECEMBER 04/04

PREDICTED AFR/AP 04 - 06 DECEMBER 06/08 - 06/08 - 08/12

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SDF NUMBER 337

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 03 DECEMBER 1979

IA. SOLAR ACTIVITY WAS NEAR MODERATE LEVELS DURING THE PAST 24 HOURS. THE LARGEST EVENT WAS A M1/2B FROM REGION 2161 (S24E11) THE REGION IS A SIMPLE B TYPE. A FILAMENT DISAPPEARED JUST PRIOR TO THE EVENT, REGION MAY BE REVERSE POLARITY. NEW REGIONS TODAY ARE 2164 (S18W08) D TYPE, 2165 (S13W07) D TYPE AND 2166 (N21E27) SIMPLE B TYPE. REGIONS 2153 (S21W03), 2156 (S25E18), 2165 AND 2166 HAVE ARCH FILAMENTS AND SHOW GROWTH IN BOTH AREA AND MAGNETIC COMPLEXITY.

IB. SOLAR ACTIVITY IS EXPECTED TO INCREASE AS ACTIVE REGIONS CONTINUE TO ROTATE OVER THE EAST LIMB. REGIONS 2153, 2164 AND 2165 SHOW GROWTH AND MAY START TO INTERACT, INCREASING THE POSSIBILITY OF A MAJOR EVENT.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO CONTINUE AT UNSETTLED LEVELS DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 04-06 DECEMBER

CLASS M 40/40/45

CLASS X 01/01/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 DEC 197

PREDICTED 04-06 DEC 215/225/230

90-DAY MEAN 03 DEC 218

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 02 DEC 12

ESTIMATED AFR/AP 03 DEC 08/10

PREDICTED AFR/AP 04-06 DEC 10/12 10/14 12/14

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