

HFUS 1 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 342

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 08 DECEMBER 1978

IA. SOLAR ACTIVITY HAS BEEN AT A MODERATE LEVEL FOR THE PAST  
24 HOURS. SEVERAL C CLASS X-RAY FLARES HAVE OCCURRED DURING  
THE PERIOD, FROM REGIONS 1444 (S14E53), 1437 (S29W79), 1442  
(S23W09) AND 1429 (S18W67). A M2/2N FLARE OCCURRED FROM  
REGION 1444 AT 07/2347 U.T. A TYPE II AND III SWEEPS WERE ALSO  
OBSERVED. NEW REGIONS 1448 (S12E62) AND 1449 (N26E73) ARE  
H-TYPE GROUPS HOWEVER REGION 1449 MAY HAVE TRAILERS AS IT  
CONTINUES TO ROTATE.

IB. SOLAR ACTIVITY WILL CONTINUE AT A MODERATE LEVEL FOR THE  
FORECAST PERIOD. REGIONS 1429, 1437 AND 1444 WILL REMAIN THE  
MAJOR FLARE PRODUCERS WITH 1444 CAPABLE OF A X-CLASS X-RAY FLARE.  
II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD WILL  
REMAIN QUIET THE NEXT 24 HOURS. THE FIELD WILL BE UNSETTLED TILL  
NEAR END OF FORECAST PERIOD WHEN FIELD WILL REACH ACTIVE LEVELS.

III. EVENT PROBABILITIES 09-11 DEC

CLASS M 80/80/80

CLASS X 15/20/20

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 DEC 195

PREDICTED 09-11 DEC 200/190/190

90-DAY MEAN 08 DEC 158

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 07 DEC 02

ESTIMATED AFR/AP 08 DEC 04/07

PREDICTED AFR/AP 09-11 DEC 06/06 - 10/15 - 15/25

SOLTERWARN

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HFUS 180U 082200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 342

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 08 DECEMBER 1979

IA. SOLAR ACTIVITY HAS BEEN LOW WITH ONLY C-CLASS SUBFLARES DURING THE PAST 24 HOURS. THE LARGEST FLARE WAS A C6/SN FROM REGION 2162 (S13E10) AT 0531Z. THIS REGION PRESENTLY DISPLAYS AN ARCH-FILAMENT SYSTEM AND A MAGNETIC DELTA CONFIGURATION. REGION 2176 (N23E60) HAS PRODUCED PLAGE FLUCTUATIONS AND ALSO MAY CONTAIN A MAGNETIC DELTA. AN ACTIVE DARK FILAMENT HAS BEEN OBSERVED NEAR REGION 2186 (N23E70). ARCH FILAMENT SYSTEMS ARE CURRENTLY VISIBLE IN REGION 2173 (N22E28) AND REGION 2183 (S16E45). REGION 2159 (S17W28) HAS PRODUCED 2 SUBNORMAL FLARES AT 1546Z AND 1923Z AND ALSO HAS GOOD FLARE POTENTIAL. EIGHT NEW REGIONS WITH SPOTS WERE ASSIGNED IN THE PAST 24 HOURS. SEVERAL OTHER REGIONS HAVE FLARED DURING THE PAST 24 HOURS. THE LIMBS ARE QUIET.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH THE GOOD PROBABILITY OF M-CLASS FLARES DURING THE NEXT 24 HOURS. REGION 2162 CURRENTLY HAS THE GREATEST FLARE POTENTIAL WITH SEVERAL OTHER REGIONS CAPABLE OF PRODUCING C-CLASS SUBFLARES. TWENTY-FOUR SUNSPOT GROUPS ARE PRESENTLY DEFINED ON THE SOLAR DISK.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24 HOURS AND IS EXPECTED TO BE UNSETTLED TO SLIGHTLY ACTIVE DURING THE FIRST AND SECOND DAYS AND UNSETTLED ON THE THIRD DAY. A CORONAL HOLE PRESENTLY ALIGNED FROM N35 TO S15 AT W45 IS EXPECTED TO BE THE SOURCE OF THE 2 DAY PERIOD OF UNSETTLED TO ACTIVE CONDITIONS.

III. EVENT PROBABILITIES 09 DECEMBER - 11 DECEMBER

|         |          |
|---------|----------|
| CLASS M | 50/60/60 |
| CLASS X | 05/05/05 |
| PROTON  | 01/01/05 |
| PCAF    | GREEN    |

IV. OTTAWA 10.7 CM FLUX

|             |                  |             |
|-------------|------------------|-------------|
| OBSERVED    | 08 DECEMBER      | 247         |
| PREDICTED   | 09 - 11 DECEMBER | 252/256/256 |
| 90-DAY MEAN | 08 DECEMBER      | 220         |

V. GEOMAGNETIC A INDICES

|           |                |                  |                       |
|-----------|----------------|------------------|-----------------------|
| OBSERVED  | FREDERICKSBURG | 07 DECEMBER      | 03                    |
| ESTIMATED | AFR/AP         | 08 DECEMBER      | 08/08                 |
| PREDICTED | AFR/AP         | 09 - 11 DECEMBER | 15/12 - 16/20 - 12/24 |

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