

HFUS 3 BOU 090600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 343A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 09 DECEMBER 1977

IA. SOLAR ACTIVITY HAS BEEN LOW THE PAST EIGHT HOURS. A NUMBER OF  
SUB FLARES FROM REGIONS 950 (S26E25) AND 953 (N23E64) HAVE BEEN REPORTED.  
ALTHOUGH X-RAY LEVELS HAVE BEEN AT JUST BELOW CLASS C, NONE OF  
THE FLARES HAVE BEEN ENERGETIC ENOUGH TO PUSH THE TRACE ABOVE THE  
C-CLASS THRESHOLD. REGION 950 HAS BEEN GROWING AND IS NOW AN F-  
TYPE GROUP.

IB. SOLAR ACTIVITY SHOULD BE LOW TO MODERATE. THE GROWTH WITHIN  
REGION 950 INCREASES THE CHANCE OF ENERGETIC ACTIVITY.

II. THE GEOMAGNETIC FIELD REMAINS QUIET. A RECURRENT DISTURBANCE  
IS EXPECTED TO BEGIN LATE IN THIS ZULU DAY AND CONTINUE AT ACTIVE TO  
MINOR STORM LEVELS THRU 10 AND 11 DEC.

III. EVENT PROBABILITIES 09 - 11 DEC

CLASS M 80/80/80

CLASS X 30/30/30

PROTON 30/30/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 DEC 110

PREDICTED 09 - 11 DEC 110/111/110

90-DAY MEAN 08 DEC 99

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 07 DEC 02

ESTIMATED AFR/AP 08 DEC 02/03

PREDICTED AFR/AP 09-11 DEC 12/12 - 30/29 - 22/20

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US 3 BOU 091500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 343-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1500Z 09 DEC 1977

IA. SOLAR ACTIVITY CONTINUED AT LOW LEVEL DURING THE PAST NINE HOURS. APPROXIMATELY EIGHT C-CLASS X-RAY ENHANCEMENTS WERE DETECTED WITH THE LARGEST BEING A C-8 (C8N FLARE) WHICH BEGAN AT 09/0655Z AND ENDED AT 09/0703Z. REGION 950 (S25E19) HAS PRODUCED MOST OF THIS ACTIVITY WITH SOME ACTIVITY FROM REGION 953 (N26E63). A NEW SPOT GROUP (REGION 954) HAS DEVELOPED NEAR S17W36.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE DURING THE REST OF THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD WAS QUIET FOR THE PAST NINE HOURS. A RECURRENT GEOMAGNETIC DISTURBANCE IS EXPECTED TO BEGIN LATE ON THIS ZULU DAY AND CONTINUE THROUGH 11 DEC.

III. EVENT PROBABILITIES 09 - 11 DEC

CLASS M 80/80/80

CLASS X 30/30/30

PROTON 30/30/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 DEC 110

PREDICTED 09 - 11 DEC 110/111/110

90-DAY MEAN 08 DEC 99

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 07 DEC 02

ESTIMATED AFR/AP 08 DEC 02/03

PREDICTED AFR/AP 09 - 11 DEC 12/12 - 30/29 - 22/20

SOLTERWARN

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HFUS 1 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 343

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 09 DEC 1977

IA. SOLAR ACTIVITY WAS LOW DURING THE PAST 24 HOURS WITH OVER A DOZEN SUBFLARES BEING REPORTED BY VARIOUS OBSERVATORIES. THE LARGEST X-RAY BURST DETECTED WAS A C-8 (C8N FLARE) AT 09/0656Z FROM REGION 950 (S27E16). REGION 950, A COMPLEX E-TYPE GROUP WITH A REPORTED DELTA CONFIGURATION AND 85 SPOTS, PRODUCED MOST OF THE SUBFLARES WITH SOME HELP FROM REGIONS 953 (N25E62) AND 947 (S22W53). REGION 947 HAS DECAYED SOMEWHAT OVER THE PAST 24 HOURS, BUT TWO NEW SPOT GROUPS, REGION 954 (S19W41) AND 955 (N01W11), HAVE DEVELOPED.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE DURING THE NEXT 24 HOURS. REGION 950 APPEARS TO HAVE THE POTENTIAL TO PRODUCE ISOLATED X-CLASS X-RAY ACTIVITY.

II. THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST 24 HOURS. A MODERATE GEOMAGNETIC DISTURBANCE IS EXPECTED TO BEGIN ON 10 DEC AND CONTINUE INTERMITTENTLY THROUGH 12 DEC.

III. EVENT PROBABILITIES 10-12 DEC

CLASS M 70/70/70

CLASS X 30/30/30

PROTON 30/30/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 DEC 117

PREDICTED 10-12 DEC 117/119/119

90-DAY MEAN 09 DEC 99

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 DEC 01

ESTIMATED AFR/AP 09 DEC 03/04

PREDICTED AFR/AP 10-12 DEC 20/20 - 25/27 - 17/20

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