

HFUS 3 BOU 100600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 344A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 10 DEC 1977

IA. SOLAR ACTIVITY HAS BEEN MODERATE THE PAST 7 HOURS. ALL REGIONS
REMAIN DYNAMIC EXCEPT 953 (N24E57) WHICH APPEARS QUIET AND STABLE.

FLARES HAVE BEEN REPORTED IN REGIONS 947 (S20W56), 950 (S27E13)

AND 955 (N01W13). THE LARGEST WAS A 1B IN REGION 950 AT 0305Z.

THIS FLARE WAS ACCOMPANIED BY AN M-7 XRAY EVENTS.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW TO MODERATE WITH
FREQUENT CLASS C ACTIVITY AND OCCASIONAL M-CLASS ACTIVITY. REGION 950
IS CAPABLE OF PRODUCING X-CLASS EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 7 HOURS. GENERALLY
UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED THROUGH 12 DEC.

III. EVENT PROBABILITIES 10 DEC-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 9 DEC 117

PREDICTED 10-12 DEC 117/119/119

90-DAY MEAN 9 DEC 99

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 8 DEC 01

ESTIMATED AFR/AP 9 DEC 03/05

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

SOLTERWARN

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HFUS 3 BOU 101500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 344-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 10 DEC 1977

IA. SOLAR ACTIVITY WAS MODERATE DURING THE PAST NINE HOURS. AN M1 X-RAY EVENT BEGAN AT 10/0753Z AND ENDED AT 0811Z WITH MINOR ASSOCIATED RADIO BURSTS. NO OPTICAL DATA IS AVAILABLE SO FAR. PERIODIC C-CLASS X RAY BURSTS OCCURRED THROUGH THE PERIOD. REGION 950 (S25E08) NOW APPEARS TO BE A COMPLEX F-TYPE GROUP AND IS THE MAIN PRODUCER OF ENERGETIC ACTIVITY. HOWEVER, POINT BRIGHTENINGS AND FLARE FLUCTUATIONS CONTINUE TO OCCUR IN REGIONS 954 (S17W48) AND 955 (N01W18). A NEW REGION (956) NEAR S22E74 HAS ROTATED ONTO THE DISK. THE RAMEY OBSERVATORY REPORTED AN ERUPTIVE PROMINENCE NEAR NE29 AT ABOUT 10/1244Z.

IB. SOLAR ACTIVITY SHOULD BE GENERALLY MODERATE DURING THE REST OF THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD WAS QUIET DURING THE PAST NINE HOURS. THE FIELD IS EXPECTED TO BECOME ACTIVE BY THE END OF THE ZULU DAY.

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 03/05

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

SOLTERWARN

BT

HFUS 1 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 344

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 DEC 1977

IA. SOLAR ACTIVITY WAS MODERATE DURING THE PAST 24 HOURS. REGION 950 (S26E00) NOW HAS ABOUT 95 SPOTS AND IS CLASSIFIED MAGNETICALLY (MT. WILSON) AS A GAMMA. THIS REGION PRODUCED AN M7/1B EVENT WHICH BEGAN NEAR 10/0305Z, MAXED AT 0315Z, AND ENDED AT 0327Z. CULGOORA OBSERVATORY REPORTED A MODERATE TYPE II BURST AT 10/0313Z WHICH ENDED AT 0340Z AND A STRONG TYPE IV CONTINUUM WHICH STARTED AT 100317Z AND ENDED NEAR 0720Z. IN ADDITION, THE ABOVE FLARE WAS ACCOMPANIED BY SIGNIFICANT DISCRETE RADIO BURSTS (130 FLUX UNITS AT 10.7 CM) AND PRODUCED MODERATE SWFS. REGION 950 ALSO PRODUCED AN M1 EVENT NEAR 10/0753Z WHICH ENDED AT 0811Z AND FREQUENT C-CLASS X-RAY ENHANCEMENTS. REGION 955 (N01W23) SHOWED SIGNIFICANT SPOT GROWTH AND PRODUCED SEVERAL SUBFLARES. REGIONS 953 (N26E48) AND 954 (S18W54) HAVE DISPLAYED POINT BRIGHTENINGS WHILE OTHER REGIONS HAVE BEEN MOSTLY STABLE. LIMB ACTIVITY IN THE AREA OF NE25-35 INDICATES OTHER ACTIVE REGIONS MAY BE ROTATING ONTO THE DISK.

IB. SOLAR ACTIVITY IS EXPECTED TO BE AT A GENERALLY MODERATE LEVEL WITH PERIODIC C-CLASS X-RAY BURSTS, OCCASIONAL M-CLASS EVENTS, AND A POSSIBLE X-CLASS EVENT.

II. THE GEOMAGNETIC FIELD REMAINED QUIET DURING THE PAST 24 HOURS. HOWEVER, DISTURBED CONDITIONS ARE EXPECTED TO BEGIN EARLY ON 11 DEC AND CONTINUE THROUGH 13 DEC.

III. EVENT PROBABILITIES 11 - 13 DEC

CLASS M 70/70/70

CLASS X 30/30/30

PROTON 30/30/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 DEC 118

PREDICTED 11 - 13 DEC 119/119/119

90-DAY MEAN 10 DEC 99

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 09 DEC 03

ESTIMATED AFR/AP 10 DEC 03/04

PREDICTED AF/AP 11 - 13 DEC 25/25 - 20/20 - 15/15

SOLTERWARN

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