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HFUS 1 BOU 290600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 303A

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 29 OCTOBER 1972

IA. FLARE ACTIVITY IN REGION 460 (S10E09) CONTINUES AT MODERATE LEVEL.
SMALL CLASS M EVENTS HAVE BEEN OBSERVED.

IB. NO CHANGE

II. GEOMAGNETIC FIELD REMAINS UNSETTLED.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

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HFUS 1 BOU 291300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 303B

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 29 OCTOBER 1972

IA. REGION 460 (S09E05) HAS PRODUCED ALL FLARE ACTIVITY IN THE PAST 24 HOURS. THE MOST SIGNIFICANT WERE A ONE BRIGHT AT 28/1805Z WITH UNKNOWN X-RAY OUTPUT, AND A SUBFLARE NORMAL AT 29/0311Z WHICH REACHED X-RAY CLASS M-2. A SHORT WAVE FADE OF 45-MIN DURATION WAS ASSOCIATED WITH THIS LATTER EVENT. SMALL IONOSPHERIC EVENTS AND SMALL RADIO BURSTS AT DISCREET FREQUENCIES ACCOMPANY OPTICAL EVENTS. THE DEKAMETRIC NOISE STORM ENDED AT 29/0000Z. PLAGE IN REGION 460 HAS DECLINED SLIGHTLY, AND SPOTS CONTINUE TO BREAK UP AT A SLOW RATE.

IB. CLASS M FLARE ACTIVITY SHOULD CONTINUE, WHILE THE POSSIBILITY OF CLASS X ACTIVITY IS EXPECTED TO DECLINE SLOWLY. THE TWO OTHER REGIONS NOW ON THE DISK SHOULD REMAIN UNIMPORTANT. REGIONS 429 AND 431 ARE DUE TO RETURN WITHIN THE NEXT 12 HOURS.

II. THE GEOMAGNETIC FIELD WAS MILDLY UNSETTLED DURING THE PAST 24 HOURS, WITH INCREASED UNSETTLEMENT DURING LOCAL NIGHTIME HOURS. UNSETTLED CONDITIONS SHOULD CONTINUE THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 29 - 31 OCT

CLASS M 90/90/85

CLASS X 30/25/20

PROTON 25/25/25

PCFC YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 OCT 165

PREDICTED 29-31 OCT 162/160/156

90-DAY MEAN 28 OCT 121

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 OCT 07

ESTIMATED 28 OCT 09

PREDICTED 29-31 OCT 11/10/10

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HFUS BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 303

JOINT AESC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 29 OCTOBER 1972

IA. REGION 460 /S10E07/ PRODUCED AN IMPORTANCE SB FLARE AT 29/1613Z. ITS X-RAY CLASS IS NOT YET KNOWN BUT WEAK SHORT WAVE FADEOUTS WERE OBSERVED. THE ASSOCIATED RADIO BURST HAD A PEAK OF 150 FLUX UNITS AT 2700 MHZ AND WAS LARGER AT HIGHER FREQUENCIES. INTENSE CONTINUUM EMISSION AT 20-80 MHZ AND GREATLY ENHANCED CENTIMETRIC RADIO AND X-RAY FLUX LEVELS WERE OBSERVED FOR SEVERAL HOURS FOLLOWING THE FLARE. PROTON FLUXES NEAR EARTH BEGAN INCREASING SLOWLY AT ABOUT 29/2010Z. PARTICLE FLUXES ARE STILL VERY LOW AT REPORT TIME, ABOUT 8 TIMES BACKGROUND AT 5-21 MEV, AND IT IS TOO EARLY TO TELL IF A SIGNIFICANT PROTON ENHANCEMENT WILL RESULT. THE 1700Z OTTAWA FLUX IS UNAVAILABLE DUE TO FLARE ENHANCEMENT.

IB. CLASS M ACTIVITY IS EXPECTED FROM REGION 460. MAJOR ACTIVITY IS POSSIBLE. OTHER REGIONS ON THE DISK ARE SMALL AND SHOULD PRODUCE ONLY SPORADIC SUBFLARE ACTIVITY.

II. THE GEOMAGNETIC FIELD WAS ACTIVE 29/0600Z TO 29/1500Z. UNSETLED CONDITIONS ARE EXPECTED FOR THE NEXT 48 HOURS.

III. EVENT PROBABILITIES 30 OCT - 01 NOV

CLASS M	90/90/90
CLASS X	30/30/25
PROTON	25/25/25
PCAF	YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED	29/1400Z	154
PREDICTED	30 OCT- 01 NOV	157/154/151
90-DAY MEAN	29 OCT	ABOUT 121

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	28 OCT	08
ESTIMATED	29 OCT	20
PREDICTED	30 OCT-01 NOV	12/10/08

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