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HFUS 1 BOU 010601

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 306A

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 01 NOV 1972

IA. LITTLE CHANGE IS APPARENT IN REGION 460 (S10W31). THE MINOR
PCA EVENT WHICH BEGAN AT SATELLITE ALTITUDES ABOUT 29/2010Z HAS
EFFECTIVELY ENDED. THE PEAK THULE 30 MHZ RIOMETER ABSORPTION UNDER
DAYLIGHT CONDITIONS WAS 2.4 DB AT 31/1645 AND 1715Z.

IB. NO CHANGE.

II. A RESURGENCE IN MAGNETIC ACTIVITY BEGAN A FEW MINUTES AFTER
01/0200Z--ONE PRIMARILY ON THE D TRACE. THE K INDICES FOR THE FIRST
TWO 3-HOUR PERIODS OF THE DAY HAVE BEEN SEVENS.

III. EVENT PROBABILITIES - NO CHANGE.

IV. OTTAWA 1).7 CM FLUX - NO CHANGE.

V. GEOMAGNETIC A INDICES - NO CHANGE.

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1/280

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HFUS 1 BOU 011300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 306B

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 01 NOV 1972

IA. ALTHOUGH SLOW SUNSPOT DECAY IS OCCURRING, REGION 460 (S10W34) RETAINS ITS COMPLEX MAGNETIC STRUCTURE AND APPEARS CAPABLE OF PRODUCING ADDITIONAL ENERGETIC FLARES. THE MOST SIGNIFICANT SOLAR EVENT DURING THE PAST 24 HOURS, A BRILLIANT SUBFLARE IN REGION 460 AT 01/0640Z, PRODUCED A 29 MINUTES SHORT WAVE FADE AT 21 MHZ. THE REMAINING DISK FEATURES ARE SMALL AND RELATIVELY STABLE. HIGH ENERGY PROTON FLUX IS AT NORMAL BACKGROUND, WHILE LOW ENERGY (5-21 MEV) FLUX IS SLIGHTLY ENHANCED.

IB. SEVERAL CLASS M FLARES ARE EXPECTED DURING THE NEXT 72 HOURS AND THERE IS A FAIR CHANCE OF ONE OR TWO CLASS X EVENTS.

II. THE GEOMAGNETIC STORM CONTINUES WITH BOULDER K VALUES OF 7-7-7-6 OBSERVED DURING THE PAST FOUR 3- HOUR PERIODS. THE DISTURBANCE IS EXPECTED TO DECLINE SLOWLY DURING THE NEXT 24 HOURS. K VALUES OF 5 ARE LIKELY DURING NIGHTTIME HOURS ON 02 NOV.

III. EVENT PROBABILITIES 01 NOV - 03 NOV

CLASS M 90/90/85

CLASS X 30/30/25

PROTON 25/25/25

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 OCT 146

PREDICTED 01 NOV - 03 NOV 142/133/135

90-DAY MEAN 31 OCT 121

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 30 OCT 15

ESTIMATED 31 OCT 25

PREDICTED 01 NOV - 03 NOV 50/25/10

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HFUS BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 306

JOINT AESC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 01 NOVEMBER 1972

IA. REGION 460 /S12W41/ REMAINS COMPLEX MAGNETICALLY. HOWEVER,
RADIOMETRIC TEMPERATURES HAVE DROPPED MARKEDLY DURING THE PAST 48
HOURS WITH SLIGHT SIMPLIFICATION ALSO OCCURRING OPTICALLY. A
SB/M1 OCCURRING NEAR 01/0640Z HAS BEEN THE LARGEST EVENT DURING
THE PAST 24 HOURS. THE PROTON FLUXES AT 01/1700Z WERE AT BACK-
GROUND ON THE HIGH ENERGY LEVEL AND SLIGHTLY ENHANCED AT THE LOW
ENERGY LEVEL. THE PCA EVENT /THULE 30 MHZ RIOMETER/ OCCURRED
31/1400Z TO 1845Z WITH DAYLIGHT MAXIMUM ABSORPTION OF 2.4 DB
NEAR 31/1700Z.

IB. CLASS M EVENTS ARE EXPECTED, WITH DECREASING FREQUENCY,
DURING THE NEXT 72 HOURS. A CLASS X AND/OR PROTON EVENT IS
POSSIBLE.

II. THE GEOMAGNETIC STORM WHICH BEGAN WITH A SUDDEN COMMENCEMENT
31/1655Z APPEARS TO HAVE ENDED NEAR 01/1430Z. HOWEVER THE FIELD
IS EXPECTED TO REMAIN ACTIVE FOR THE NEXT 24 HOURS AND THEN BECOME
UNSETTLED.

III. EVENT PROBABILITIES 02 NOV-04 NOV

CLASS M 90/85/70

CLASS X 30/25/15

PROTON 25/25/15

PCAF YELLOW

IV. OTTAWA 10.7CM FLUX

OBSERVED 01 NOV 132

PREDICTED 02-04 NOV 128/124/120

90-DAY MEAN 01 NOV 121

V. GEOMAGNETIC A-INDICES

OBSERVED FREDERICKSBURG 31 OCT 21

ESTIMATED 01 NOV 53

PREDICTED 02-04 NOV 25/10/14

SOLTERWARN

SPAN

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