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HFUS 1 BOU 300645

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 304A

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z OCTOBER 1972

IA. REGION 460 (S12W02) CONTINUES TO PRODUCE CLASS M FLARES. ATS-1 SATELLITE SHOWS A SUBSTANTIAL INCREASE IN PROTON COUNT ON THE 5121 MEV SENSOR.

IB. NO CHANGE

II. GEOMAGNETIC ACTIVITY INCREASED GREATLY AT ABOUT 30/0500Z AND WILL CONTINUE FOR THE NEXT 8-10 HOURS.

III. NO CHANGE

IV. NO CHANGE

V. GEOMAGNETIC A INDICES WILL INCREASE FOR 30 OCTOBER.

SOLTERWARN

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HFUS 1 BOU 300720
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 304A AMMENDMENT
JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0700A 30 OCTOBER 1972
IA. NO CHANGE
IB. NO CHANGE
II. NO CHANGE
III. NO CHANGE
IV. NO CHANGE
V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 28 OCT 08
ESTIMATED 29 OCT 20
PREDICTED 30 OCT - 01 NOV 20/15/10
SOLTERWARN
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HFUS 1 BOU 301300
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 304B

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 30 OCTOBER 1972

IA. REGION 460 (S09W09) HAS PRODUCED ALL FLARE ACTIVITY IN THE PAST 24 HOURS. A SUB-BRIGHT AT 29/1613Z AND A ONE-BRIGHT AT 30/0733Z PRODUCED BURSTS AT TEN CENTIMETERS OF 150 AND 100 FLUX UNITS, RESPECTIVELY. X-RAY CLASS FLARES OF M-3 AND M-2 INTENSITY WERE OBSERVED AT 29/2348Z AND 30/0951Z. AT 30/0600Z THE PROTON FLUX AT 5-21 MEV BECAME ENHANCED TO GREATER THAN TEN TIMES BACKGROUND, AND THE LOW-ENERGY EVENT IS STILL IN PROGRESS. THE 21-70 MEV CHANNEL IS SLIGHTLY ENHANCED.

IB. CLASS M ACTIVITY IS EXPECTED FROM REGION 460, AND MAJOR ACTIVITY IS POSSIBLE. OTHER REGIONS ON THE DISK ARE SMALL AND SHOULD PRODUCE ONLY SPORADIC SUBFLARE ACTIVITY. MINOR IONOSPHERIC EVENTS AND SMALL RADIO BURSTS SHOULD CONTINUE.

II. AT 30/0500Z THE MAGNETIC FIELD BECAME ACTIVE AND IS NOW UNSETTLED. UNSETTLED TO ACTIVE CONDITIONS MAY ACCOMPANY INCREASED PARTICLE FLUXES IF THEY CONTINUE.

III. EVENT PROBABILITIES 30 OCT -01 NOV

CLASS M 90/90/90

CLASS X 30/30/30

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 20/15/10

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 304

JOINT AESC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 30 OCTOBER 1972

IA. DURING THE PAST 24 HOURS REGION 460 HAS PRODUCED IMPORTANCE
1B FLARES AT 30/0723Z /CLASS M6, MODERATE SWF, 100 FLUX UNIT
RADIO BURST AT 2700 MHZ/, 30/1034Z /CLASS M1/, AND 30/1647Z
/CLASS UNKNOWN, MODERATE SWF/ AND SEVERAL SUBFLARES AND SMALL
CLASS M X-RAY BURSTS. THE REGION REMAINS LARGE /1600 MILLIONTHS
OF THE SOLAR HEMISPHERE/ AND COMPLEX /BETA GAMMA WITH DELTA
CONFIGURATIONS/ AND SHOWS NO SIGNS OF DECREASING IN FLARE POTENTIAL.
A GRADUAL RISE AND FALL TYPE X-RAY BURST BEGAN YESTERDAY AT 29/1540Z,
REACHED A BROAD CLASS M3 PEAK AT 29/1820Z, AND WAS STILL DECAYING
AT THE ONSET OF THE CLASS M6 X-RAY BURST ASSOCIATED WITH THE 1B
AT 30/0723Z. THE MECHANISM BEHIND THIS X-RAY EVENT MAY HAVE ALSO
BEEN RESPONSIBLE FOR THE EJECTION OF THE LOW ENERGY PROTONS
WHICH WERE FIRST DETECTED AT EARTH AT ABOUT 29/2010Z. PROTON
FLUXES ON ATS-1 HAVE BEEN ABOUT 300 AND 30 TIMES BACKGROUND AT
5-21 AND 21-70 MEV DURING THE PAST 12 HOURS. THE 1700Z OTTAWA
FLUX IS AGAIN UNAVAILABLE DUE TO FLARE ENHANCEMENT.

IB. ENERGETIC ACTIVITY IS EXPECTED FROM REGION 460. A MAJOR
EVENT IS PROBABLE FROM THIS REGION BEFORE IT IS SAFELY BEHIND
THE WEST LIMB ON 07-08 NOVEMBER.

II. THE GEOMAGNETIC FIELD WAS ACTIVE DURING LOCAL NIGHT.
UNSETLED TO ACTIVE CONDITIONS ARE EXPECTED AT MID LATITUDES
THE NEXT 72 HOURS, AND MORE DISTURBED CONDITIONS ARE EXPECTED
DURING LOCAL NIGHT AT HIGH LATITUDES.

III. EVENT PROBABILITIES 31 OCT-02 NOV

CLASS M 90/90/90

CLASS X 30/30/30

PROTON 25/25/25

PCAF YELLOW

IV. OTTAWA 10.7CM FLUX

OBSERVED 30/1400Z 147

PREDICTED 31 OCT-02 NOV 145/142/138

90-DAY MEAN 30 OCT 121

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 29 OCT 21

ESTIMATED 30 OCT 17

PREDICTED 31 OCT-02 NOV 16/14/18

SOLTERWARN

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