

NNNN
KBOU
HFUS 1 BOU 220600
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 327A
JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 22 NOV 1972
IA. NO CHANGE
IB. NO CHANGE
II. NO CHANGE
III. NO CHANGE
IV. NO CHANGE
V. NO CHANGE
SOLTERWARN
BT

NNNN
KBOU
HFUS 1 BOU
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 327B

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 22 NOVEMBER 1972

IA. SOLAR ACTIVITY HAS INCREASED MARKEDLY SINCE 22/0530Z WITH
REPEATED SUBFLARES OCCURRING ON THE NORTH SIDE OF REGION
480(S06 W05) WITH THE ADVENT OF ADDITIONAL SATELLITE SPOTS.
SUBBRIGHT FLARES AT 0754Z AND 1002Z ARE PRELIMINARILY CLASSED
AS M3 AND M1 X-RAY FLARES. DARK SURGES AND MINOR RADIO BURSTS/
SIDS ACCOMPANIED BOTH FLARES. A 1B FLARE CONSISTING OF SEVERAL
RIBBONS OCCURRED AT 0936Z IN THE PLAGE (S16 E53) SOUTHEAST
OF REGION 481(S07 E40).

IB. CONTINUED CLASS M ACTIVITY IN REGION 480 IS EXPECTED AS
LONG AS THE ANOMOLOUS SPOTS ARE PRESENT NEAR THE LEADER SPOT.
REGIONS 479(S15 W45) AND 478(S06 E13) CAN BE EXPECTED TO CONTRIBUTE
CLASS C FLARES. OLD REGION 470 MAY RETURN NEAR SE11 ON 23 NOVEMBER.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND IS EXPECTED TO
REMAIN SO.

III. EVENT PROBABILITIES 22 - 24 NOV

CLASS M 35/40/40
CLASS X 01/05/05
PROTON 01/01/01
PCFC GREEN

IV. OTTAWA 10.7 CM FLUX
OBSERVED 21 NOV 115
PREDICTED 22- 24 NOV 115/116/116
90-DAY MEAN 21 NOV 116.5

V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 20 NOV 23
ESTIMATED 21 NOV 12
PREDICTED 22 - 24 NOV 07/11/09
SPAN
BT

NNNN

KBOU

HFUS BOU 222205

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 327

JOINT AESC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 22 NOVEMBER 1972.

IA. SOLAR ACTIVITY HAS BEEN MODERATE. REGION 483 /S04W12/ HAS EMERGED IMMEDIATELY NORTH OF REGION 480 /S06W10/ AND HAS CREATED A COMPLEX WHICH HAS PRODUCED TEN OPTICAL SUBFLARES, TWO CLASS M X-RAY EVENTS, AND ONE CLASS C X-RAY EVENT IN THE PAST 24 HOURS. REGION 479 /S15W51/ HAS SHOWN SLIGHT GROWTH AND HAS PRODUCED 7 SUBFLARES IN THE LAST 10 HOURS. SHORTWAVE FADES OF 34 MINUTES ON 10 MHZ AND 17 MINUTES ON 21 MHZ OCCURRED AT 22/0801Z IN RESPONSE TO A SUBFLARE IN 480.

IB. THE LEADER IN REGION 480 IS GROWING, CAUSING HIGHER FIELD GRADIENTS BETWEEN IT AND 483. REGION 482 IS AN H TYPE SPOT NEAR THE BASE OF A LARGE FILAMENT SYSTEM AND MAY ALSO DEVELOP STEEP GRADIENTS. MODERATE SUBFLARE ACTIVITY IS THEREFORE EXPECTED TO CONTINUE AND ENERGETIC ACTIVITY MAY INCREASE. A NEW GROUP EMERGING SE OF REGION 481 /S07E34/ MAY ALSO INDUCE ACTIVITY IN REGION 481.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DUE TO A PROBABLE SECTOR BOUNDARY PASSAGE. AN INTENSITY 3.5 CALCIUM REGION NEAR THE SOLAR EQUATOR AND A STRONG NEUTRAL LINE CONFIGURATION INDICATE A PROBABLE STRONG SECTOR BOUNDARY PASSAGE ON 25 NOVEMBER. THE GEOMAGNETIC FIELD IS EXPECTED TO BE MILDLY UNSETTLED FOR THE NEXT 48 HOURS AND UNSETTLED TO ACTIVE ON 25 NOV.

III. EVENT PROBABILITIES 23 NOV - 25 NOV.

CLASS M 40/40/30

CLASS X 05/05/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 1).7 CM FLUX.

OBSERVED 22 NOV 115

PREDICTED 23 NOV - 25 NOV 118/120/120

90-DAY MEAN 22 NOV 116.4

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 21 NOV 010

ESTIMATED 22 NOV 009

PREDICTED 23 NOV - 25 NOV 012/009/025

SOLTERWARN

SPAN

BT