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HFUS 1 BOU 200600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 294A

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 20 OCTOBER 1972

IA. NO CHANGE

IB. NO CHANGE

II. NO CHANGE

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

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HFUS 1 BOU 201300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 294B

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 20 OCTOBER 1972

IA. SOLAR ACTIVITY WAS LOW FOR THIS PERIOD. MINOR
SUBFLARES WERE REPORTED FROM REGIONS 446 (S04 E09)
AND 448 (S14E19), BUT NONE OF THESE EVENTS WERE
ACCOMPANIED BY SIGNIFICANT IONOSPHERIC EFFECTS. REGION
446 HAS SHOWN SOME GROWTH IN THE PAST 24 HOURS
WHILE REGION 448 APPEARS TO BE DECAYING SOMEWHAT.

IB. ENERGETIC ACTIVITY IS UNLIKELY FROM REGION
446 OR 448, ALTHOUGH CONTINUED SUBFLARES CAN BE EXPECTED FROM
THESE REGIONS.

II. THE GEOMAGNETIC FIELD HAS BEEN ONLY
MODERATELY ACTIVE IN THE PAST 24 HOURS.
THE FIELD SHOULD APPROACH A QUIET STATUS
TOWARD THE END OF THIS 72 HOUR
PERIOD, ALTHOUGH MODERATELY UNSETTLED CONDITIONS
MAY PREVAIL NEAR LOCAL MIDNIGHT.

III. EVENT PROBABILITIES 20-22 OCTOBER

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/02

PCFC GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 OCTOBER 120

PREDICTED 20-22 OCTOBER 124/128/130

90-DAY MEAN 19 OCTOBER 117.5

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 OCTOBER 11

ESTIMATED 19 OCTOBER 21

PREDICTED 20-22 OCTOBER 012/009/005

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HFUS BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 294

JOINT AESC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 20 OCTOBER 1972

IA. SOLAR ACTIVITY REMAINS AT A LOW LEVEL AS REGIONS 446 /S09E04/ AND 448 /S14E20/ CONTINUE TO PRODUCE NON-ENERGETIC SUBFLARES. ALTHOUGH THEIR X-RAY OUTPUT HAS BEEN SMALL THEY ARE PRODUCING PERIODS OF ENHANCED SOLAR RADIO NOISE AT HF AND VHF FREQUENCIES AS THEY ROTATE TOWARD THE CENTER OF THE DISK. REGION 448 REMAINS LARGE BUT THE MAGNETIC FIELD GRADIENTS WITHIN THIS REGION ARE STILL SMALL. REGION 446 HAS GROWN IN WHITE LIGHT, BUT AS YET IT STILL HAS A SIMPLE MAGNETIC STRUCTURE. A NEW REGION /NUMBER 451/ AT S16E49 IS ALSO A SIMPLE MAGNETIC BETA. SURGE ACTIVITY NEAR S06 ON THE EAST LIMB INDICATES A NEW REGION IS ABOUT TO ROTATE ONTO THE DISK.

IB. SUBFLARE ACTIVITY AND OCCASIONAL PERIODS OF ENHANCED RADIO NOISE AT HF AND VHF FREQUENCIES ARE EXPECTED DURING THE NEXT 72 HOURS AS REGIONS 446 AND 448 ROTATE PAST THE CENTER OF THE SOLAR DISK. FLARE ACTIVITY SHOULD REMAIN NONENERGETIC.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED UNTIL 1200Z TODAY, BUT HAS SINCE BEEN ONLY SLIGHTLY UNSETTLED. UNSETTLED CONDITIONS ARE EXPECTED DURING LOCAL MIDNIGHT HOURS AGAIN TONIGHT AS THE EARTHS MAGNETIC FIELD RECOVERS FROM THE ACTIVITY OF THE PAST FEW DAYS. WITH THIS EXCEPTION HOWEVER, GENERALLY QUIET GEOMAGNETIC CONDITIONS SHOULD PREVAIL DURING THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 21 OCT 0000Z - 23 OCT 2400Z.

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 20 OCT 123

PREDICTED 21 OCT - 23 OCT 128/130/131

90-DAY MEAN 20 OCT 117.6

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 19 OCT 020

ESTIMATED 20 OCT 011

PREDICTED 21 OCT - 23 OCT 008/005/005

SOLTERWARN

SPAN

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