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HFUS 1 BOU 190600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 293A

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 19 OCTOBER 1972

IA. SOLAR ACTIVITY REMAINS LOW. REGION 448 (S15E37) APPEARS
STABLE IN MOST PARAMETERS, HOWEVER, ITS 9.1 CM RADIO BRIGHTNESS
TEMPERATURE HAS DECLINED DURING THE PAST 24 HOURS.

IB. NO CHANGE

II. A MINOR GEOMAGNETIC DISTURBANCE BEGAN NEAR 19/0230Z. GENERALLY
UNSETTLED CONDITIONS ARE EXPECTED DURING THE NEXT 72 HOURS WITH
INCREASED NIGHTTIME ACTIVITY LIKELY ON 19 AND 20 OCTOBER. SEE
PART V FOR REVISED FORECAST.

III. NO CHANGE

IV. NO CHANGE

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 OCTOBER 01

ESTIMATED 18 OCTOBER 08

PREDICTED 19-21 OCTOBER 22/15/10

SOLTERWARN

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HFUS 1 BOU 191230

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 293B

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 19 OCTOBER 1972

IA. SOLAR ACTIVITY HAS REMAINED LOW. REGIONS 446 (S05E21) AND
448 (S15E31) STILL ARE THE ONLY AREAS OF INTEREST ON THE DISK.
BOTH REGIONS APPEAR QUITE STABLE, AND PRESENTLY MAY BE DECAYING
SOMEWHAT. REGION 448 HAS SHOWN SIGNIFICANT DECREASE IN ITS
EMISSIONS AT X-RAY AND 10 CM WAVE LENGTHS.

IB. PRESENT STABILITY AND/OR SLOW DECAY MAKES ENERGETIC ACTIVITY
UNLIKELY IN THE IMMEDIATE FUTURE. FURTHER DEVELOPMENT OF REGION
448 WOULD PROBABLY PRECEDE ENERGETIC ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN IN A MINOR STORM STATUS FOR
THE LAST 12-15 HOURS. CONTINUED MAGNETIC ACTIVITY CAN BE EXPECTED
FOR THE NEXT FEW DAYS. THE LEVEL OF ACTIVITY SHOULD DECREASE
SIGNIFICANTLY WITHIN THE NEXT 72 HOURS.

III. EVENT PROBABILITIES 19 - 21 OCTOBER

CLASS M 30/35/40

CLASS X 01/02/02

PROTON 01/01/01

PCFC GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 OCT 112

PREDICTED 19 -21 OCT 114/114/114

90-DAY MEAN 18 OCT 117.3

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 OCT 001

ESTIMATED 18 OCT 006

PREDICTED 19 -21 OCT 35/20/10

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HFUS BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 293

JOINT AESC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 19 OCT 1972

IA. SOLAR ACTIVITY IS AT A LOW LEVEL. THE PLAGE COMPLEX ASSOCIATED WITH REGIONS 446 /S04E22/ AND 448 /S14E32/ HAVE PRODUCED OCCASSIONAL SUBFLARES, BUT THEIR X-RAY OUTPUT HAS BEEN SMALL WITH ONLY A C-3 AT 0610Z AND A C-3 AT 1650Z TODAY. MAGNETIC OBSERVATIONS FROM MT WILSON SHOW THAT ALTHOUGH THE MAGNETIC FIELD INTENSITY IS LARGE WITHIN 448, THE FIELD GRADIENT IS SMALL AND THE SPOT GROUPS IN BOTH REGIONS ARE SIMPLE TYPE BETA.

IB. ALTHOUGH A SMALL CLASS M EVENT IS POSSIBLE FROM REGION 448, ACTIVITY SHOULD BE CONFINED TO CLASS C ACTIVITY WITH ONLY SMALL, SHORT LIVED IONOSPHERIC FLARE EFFECTS.

II. THE GEOMAGNETIC FIELD BECAME ACTIVE FOLLOWING A SUDDEN COMMENCEMENT AT 18/1747Z. THE FIELD WAS MOST DISTURBED BETWEEN 00-09Z TODAY AS THE SOLAR WIND SPEED WAS RECORDED BY VELA IN EXCESS OF 600 KM/SEC AT TIMES DURING THIS PERIOD. THE FIELD IS CURRENTLY ONLY MILDLY UNSETTLED. UNSETTLED CONDITIONS SHOULD CONTINUE DURING THE NEXT 24 HOURS WITH A FEW ACTIVE PERIODS DURING LOCAL MIDNIGHT HOURS.

III. EVENT PROBABILITIES 20 OCT 0000Z - 22 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 19 OCT 120

PREDICTED 20 OCT - 22 OCT 124/128/130

90-DAY MEAN 19 OCT 117.5

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 18 OCT 011

ESTIMATED 19 OCT 021

PREDICTED 20 OCT - 22 OCT 012/009/005

SOLTERWARN

SPAN

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