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HFUS 1 BOU 270600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 301A

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 27 OCTOBER 1972

IA. REGION 460 (S10E32) CONTINUES TO DOMINATE ACTIVITY. IT HAS,
HOWEVER, PRODUCED ONLY FOUR SUBFLARES SINCE 26/2200Z. MINOR
SUDDEN PHASE ANOMALIES BUT NO SHORT WAVE FADEOUTS WERE OBSERVED
DURING ONE SUBFLARE AT 27/0000Z.

IB. NO CHANGE

II. NO CHANGE

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

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KBOU HFUS 1 BOU 271300
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 301B

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 27 OCTOBER 1972

IA. SOLAR ACTIVITY FROM REGION 460 (S12E32) HAS DECREASED DURING THE PAST 24 HOURS. THE LARGEST CONFIRMED X-RAY EVENT TODAY WAS A CLASS C6 AT 0619Z WHICH WAS ACCCOMPANIED BY A MINOR SHORT WAVE FADE. WHITE LIGHT OBSERVATIONS INDICATE A DECREASE IN THE MAGNETIC FIELD GRADIENT WITHIN THIS REGION. HOWEVER, THE REGION STILL HAS A COMPLEX MAGNETIC STRUCTURE AND REMAINS CAPABLE OF PRODUCING SIGNIFICANT ACTIVITY.

IB. WITH A WEAKENING IN THE MAGNETIC GRADIENT WITHIN REGION 460, A DECREASE IN THE GENERAL LEVEL OF ACTIVITY IS EXPECTED. HOWEVER, THIS REGION SHOULD CONTINUE TO PRODUCE CLASS M ACTIVITY AND A CLASS X EVENT IS POSSIBLE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. GENERALLY QUIET GEOMAGNETIC CONDITIONS ARE EXPECTED DURING THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 27 - 29 OCT

CLASS M 100/95/95

CLASS X 45/40/40

PROTON 20/25/35

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 OCT 174

PREDICTED 27-29 OCT 177/180/183

90-DAY MEAN 26 OCT 120

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 OCT 05

ESTIMATED 26 09

PREDICTED 27-29 OCT 05/08/10

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HFUS BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 301

JOINT AESC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 27 OCT 1972

IA. THE VELA SATELLITE RECORDED CLASS M X-RAY BURSTS TODAY AT 1845 AND 2051Z. THE FIRST EVENT WAS ASSOCIATED WITH A LARGE IMPORTANCE ONE FLARE IN REGION 460, HOWEVER, FLARE REPORTS HAVE NOT BEEN RECEIVED FOR THE LATTER EVENT. BOTH BURSTS PRODUCED MINOR IONOSPHERIC EFFECTS. SEVERAL SUBFLARES HAVE ALSO BEEN REPORTED DURING THE PAST 24 HOURS. THE MAGNETIC CONFIGURATION BELOW THE MAIN LEADER SPOT OF REGION 460 /S10E26/ APPEARS TO BE CHANGING. A Y SHAPED FILAMENT HAS FORMED IN THIS AREA AND PLAGE GROWTH IS OCCURRING. THE REMAINING DISK REGIONS ARE STABLE. A STRONG DEKAMETRIC TYPE IV RADIO BURST HAS BEEN IN PROGRESS SINCE 1745Z.

IB. SEVERAL CLASS M FLARES ARE EXPECTED DURING THE FORECAST PERIOD AND THERE IS ALSO A GOOD CHANCE OF CLASS X ACTIVITY.

II. THE GEOMAGNETIC FIELD IS UNSETLED. UNSETLED CONDITIONS ARE EXPECTED TO CONTINUE WITH A SLIGHT INCREASE IN ACTIVITY NEAR THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 28-30 OCT

CLASS M 95/95/95

CLASS X 40/40/40

PROTON 25/30/35

PCAF YELLOW

IV. OTTAWA 10.7CM FLUX

OBSERVED 27 OCT 172

PREDICTED 28-30 OCT 172/174/170

90-DAY MEAN 27 OCT 121

V. GEOMAGNETIC A-INDICES

OBSERVED FREDERICKSBURG 26 OCT 09

ESTIMATED 27 OCT 07

PREDICTED 28-30 OCT 10/10/12

SOLTERWARN

SPAN

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