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KBOU

HFUS 1 BOU 240700

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 298A

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 24 OCTOBER 1972

IA. NO CHANGE

IB. NO CHANGE

II. GEOMAGNETIC DISTURBANCE CONTINUES.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SPAN 1

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HFUS 1 BOU 241300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 298B

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 24 OCTOBER 1972

IA. THERE ARE NOW II VISIBLE SPOT REGIONS ON THE SOLAR DISK. BETWEEN THEM THEY HAVE PRODUCED SOME 33 OPTICAL FLARES IN THE PAST 72 HOURS, MOSTLY FROM THE 460 /S10E73/ COMPLEX AND REGION 448 /S15W28/. REGIONS 454 /S16E40/ AND 460 HAVE PRODUCED SMALL M-CLASS X-RAY EVENTS. REGION 460 HAS PRODUCED SURGES ACCOMPANIED BY X-RAY BURSTS OF AT LEAST CLASS M-1, AND SMALL RADIO EVENTS HAVE BEEN ASSOCIATED WITH THIS ACTIVITY. A VERY LARGE LEADER GROUP IS NOW VISIBLE AS PART OF 460. THIS REGION IS NOW THE MOST IMPRESSIVE ON THE DISK, ALTHOUGH THE 448 COMPLEX IS A GOOD RIVAL. PRACTICALLY CONTINUOUS HARD X-RAY EMISSION HAS BEEN DETECTED FOR THE PAST SEVERAL HOURS.

IB. REGION 460 AND THE 448 COMPLEX ARE EXPECTED TO CONTINUE TO PRODUCE M-CLASS EVENTS, AND BOTH ARE CAPABLE OF MORE ENERGETIC OUTPUT.

II. THE GEOMAGNETIC FIELD HAS REMAINED MILDLY UNSETTLED. THESE CONDITIONS ARE EXPECTED TO CONTINUE THROUGH OCT 24, PERHAPS BECOMING QUIETER ON OCT 25, AND BECOMING MORE UNSETTLED ON OCT 26.

III. EVENT PROBABILITIES 24 OCT- 26 OCT

CLASS M 80/80/80

CLASS X 20/20/20

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 OCT 155

PREDICTED 24-26 OCT 150/145/140

90-DAY MEAN 23 OCT 119

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBUEG 22 OCT 011

ESTIMATED 23 OCT 011

PREDICTED 24-26 OCT 010/010/015

SOLTERWARN

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KBOU

HFUS BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 298

JOINT AESC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z OCT 24 1972

IA. THE SUN REMAINS ACTIVE. REGION 460 /S12E66/ IS NOW FULLY ROTATED ONTO THE DISK, AND HAS PRODUCED AT LEAST 4 X-RAY CLASS M FLARES WITHIN THE PAST 24 HOURS. 460 IS AN E TYPE GROUP /SIZE 1650 MILL-IONTHS/ WITH PROBABLE DELTA MAGNETIC CONFIGURATION. REGION 448 /S15W35/ HAS PRODUCED ONLY ONE CONFIRMED M-CLASS FLARE, AND APPEARS TO BE SIMPLIFYING. BACKGROUND X-RAY LEVELS AT 1-8 ANGSTROMS ARE UP TO 0.002 ERGS/CM2-SEC. TYPE THREE DEKAMETRIC EVENTS HAVE OCCURRED FREQUENTLY, AND A MINOR NOISE STORM AT 245 MHZ IS IN PROGRESS, BECOMING ENHANCED 1430-1700Z. NUMEROUS SHORT WAVE FADES, SUDDEN PHASE ANOMALIES, AND SMALL BURSTS AT DISCREET FREQUENCIES HAVE BEEN ASSOCIATED WITH OPTICAL EVENTS.

IB. REGION 460 WILL PRODUCE AT LEAST M-CLASS FLARES, AND MAY FLARE TO X-CLASS INTENSITY. IT IS CAPABLE OF PROTON FLARES, BUT ITS POSITION MAKES PROTON ARRIVAL AT EARTH UNLIKELY. REGION 425 /MANILA PLAGE 744/ AND 426 AND 433 /MANILA 649/ ARE DUE TO RETURN WITHIN 24-HOURS.

II. THE MAGNETIC FIELD HAS BEEN MILDLY UNSETTLED. CONDITIONS MAY INCREASE TO UNSETTLED TOMORROW.

III. EVENT PROBABILITIES 25-27 OCT

CLASS M 100/100/100

CLASS X 020/020/020

PROTON 005/005/005

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 OCT 158

PREDICTED 25-27 OCT 160/162/160

90-DAY MEAN 24 OCT 119

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 23 OCT 012

ESTIMATED 24 OCT 010

PREDICTED 25-27 OCT 010/015/010

SOLTERWARN

SPAN

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