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HFUS 1 BOU 220600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 296A

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 22 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 221300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 296B

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

IA. OF THE SIX REGIONS VISIBLE ON THE SOLAR DISK, ONLY 448
(S16 W03) HAS SHOWN ANY SIGNIFICANT CHANGE. THE UMBRA OF
THE LARGE LEADER SPOT HAS EXTENDED TO JOIN ONE OF THE TRAILER
SPOTS, AND FURTHER CHANGE MAY BE IMMINENT. SHORTLY AFTER 22/1030Z
AN X-RAY EVENT OF AT LEAST CATEGORY M2 WAS DETECTED BY SATELLITE,
BUT IT IS UNKNOWN AT THIS TIME WHETHER THIS EVENT WAS DUE TO
REGION 448 OR TO ACTIVITY BEHIND THE S.E. LIMB. MAGNETIC FIELD
GRADIENTS APPEAR TO BE TIGHTENING IN REGION 446 (S05 W17).

IB. CONTINUED ENERGETIC ACTIVITY IS POSSIBLE FROM REGIONS 446
AND 448, IF GROWTH AND CHANGE CONTINUE, OR FROM BEHIND THE S.E. LIMB.

II. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY ACTIVE. GENERALLY
QUIET CONDITIONS OCCASIONALLY PUNCTUATED BY PERIODS OF UNSETTLED
CONDITIONS ARE EXPECTED FOR THE NEXT 48 HRS. GENERALLY
UNSETTLED GEOMAGNETIC CONDITIONS ARE EXPECTED BEGINNING 24 OCT.

III. EVENT PROBABILITIES 22 OCT-24 OCT

CLASS M 35/35/35

CLASS X 03/03/03

PROTON 01/01/01

PCFC GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 OCT 137

PREDICTED 22-24 OCT 138/138/136

90-DAY MEAN 21 OCT 118.0

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 OCT 010

ESTIMATED 21 OCT 011

PREDICTED 22-24 OCT 007-006/010

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HFUS BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 296

JOINT AESC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z OCT 22 1972

IA. FLARE ACTIVITY HAS BEEN VERY LOW DURING THE PAST 24 HOURS, BUT SIGNIFICANT EVENTS HAVE OCCURRED ON THE DISK. NEW REGIONS 456 /S11W07/ AND 455 /S05W08/ HAVE APPEARED AMONG THE 448-452-446 GROUPING AND THE MAGNETIC STRUCTURE IS COMPLEX. THE PENUMBRA OF THE LARGE SPOT IN 448 /S15W08/ HAS EXTENDED TO THE SE AND SURROUNDED A SPOT OF FOLLOWER POLARITY, THEREBY FORMING A DELTA. AN ACTIVE SURGE REGION AND AN ACTIVE PROMINENCE AT SE7-10 HAVE EMITTED SMALL X-RAY BURSTS WHICH MAY WARN OF A COMPLEX REGION JUST BEHIND THE LIMB.

IB. THE INCREASED COMPLEXITY AROUND 448 INDICATES HIGH POTENTIAL FOR ENERGETIC EVENTS. M-CLASS X-RAY FLARES ARE EXPECTED. A REGION OF RELATIVELY HIGH POTENTIAL IS EXPECTED TO ROTATE ONTO THE DISK AT SE7-10 WITHIN 12 HOURS. REGION 425 MAY RETURN ON OCT. 24.

II. THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETTLED, AND IS EXPECTED TO REMAIN SO DURING THE NEXT THREE DAYS, PERHAPS BECOMING QUIETER AT THE END OF THE PERIOD.

III. EVENT PROBABILITIES 23 OCT-25 OCT

CLASS M 70/60/60

CLASS X 15/10/5

PROTON 10/05/03

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED OCT 22 143

PREDICTED 23-25 OCT 148/145/140

90-DAY MEAN OCT 22 118

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG OCT 21 012

ESTIMATED OCT 22 012

PREDICTED 23-25 OCT 010/010/010

SOLTERWARN

SPAN

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