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HFUS 1 BOU 250545

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 299A

JOINT AESC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 25 OCTOBER 1972

IA. REGION 460 (S12E60) REMAINS THE CENTER OF PRIMARY INTEREST.
THIS REGION CONTINUES TO PRODUCE FREQUENT SUBFLARES. SUBNORMAL
FLARES AT 24/2245Z, 24/2341Z, AND 25/0219Z PRODUCE MINOR SUDDEN
IONOSPHERIC DISTURBANCES. THE 24/2245Z EVENT PRODUCED A RADIO
BURST OF 167 FLUX UNITS AT 2700 MHZ.

IB. CLASS M ACTIVITY IS EXPECTED FROM REGION 460. CLASS X AND
PROTON ACTIVITY ARE POSSIBLE.

II. NO CHANGE

III. EVENT PROBABILITIES 25 - 27 OCTOBER

CLASS M 100/100/100

CLASS X 20/20/20

PROTON 05/08/10

PCAF GREEN

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

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HFUS BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 299

JOINT AESC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z OCT 25 1972

IA. THE SUN REMAINS ACTIVE. REGION 460 /S12E53/ HAS PRODUCED AT LEAST EIGHT M-CLASS AND ONE X-CLASS X-RAY FLARES IN THE PAST 24 HOURS. THE REGION'S UMBRAL AREA AND COMPLEXITY HAVE INCREASED, AND THE DELTA PERSISTS. MINOR IONOSPHERIC EVENTS AND SMALL BURSTS AT DISCRETE FREQUENCIES HAVE BEEN ASSOCIATED WITH OPTICAL EVENTS ALL DAY. A LARGE NOISE STORM AT 245 MHZ REACHED MAXIMUM AT 1500Z RETURNED TO LOWER LEVELS AT 1600Z. DEKAMETRIC TYPE FOUR EVENTS WERE OBSERVED ESSENTIALLY CONTINUOUSLY, REACHING HIGHER IMPORTANCE 1345-1500Z AND 1600-1635Z. TYPE FOUR ACTIVITY GAVE WAY TO SPORADIC TYPE THREE AT 1730Z. REGION 448 /S15W50/ HAS BECOME OF MINOR IMPORTANCE.

IB. REGION 460 WILL CONTINUE PRODUCING M- AND X-CLASS X-RAY FLARES. PARTICLE-PRODUCING FLARES ARE EXPECTED AND HAVE PROBABLY OCCURRED, ALTHOUGH PARTICLE ARRIVAL AT EARTH IS STILL IMPROBABLE. FUTURE PARTICLE EVENTS ARE MUCH MORE LIKELY TO BE OBSERVED AT EARTH. REGION 425 /MANILA PLAGE 744/ IS DUE TO RETURN WITHIN 24 HOURS.

II. THE MAGNETIC FIELD HAS BECOME QUIET, AND THE UNSETTLEMENT EXPECTED TODAY MAY INSTEAD BE OBSERVED TOMORROW.

III. EVENT PROBABILITIES 26-28 OCT

CLASS M 100/100/100

CLASS X 50/ 50/ 50

PROTON 20/ 25/ 35

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 OCT 174

PREDICTED 26-28 OCT 178/183/185

90-DAY MEAN 25 OCT 119.9

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 24 OCT 08

ESTIMATED 25 OCT 06

PREDICTED 26-28 OCT 15/10/10

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