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HFUS 1 BOU 310600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 366A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 31 DEC. 1972

IA. A SMALL NEW REGION (NUMBER 518) HAS APPEARED AT S13E67.

IB. NO CHANGE.

II. NO CHANGE.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE

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HFUS 1 BOU 311300Z

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 366B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 31 DECEMBER 1972

IA. OPTICAL OBSERVATIONS HAVE BEEN LIMITED DUE TO CLOUDS AT MOST  
REPORTING OBSERVATORIES. A CLASS M-1 SUBFLARE IN REGION 517 (N12E70)  
PRODUCED SMALL SHORT WAVE FADEOUTS AT 0430Z TODAY. A DETAILED  
ANALYSIS OF THIS REGION HAS NOT BEEN POSSIBLE, HOWEVER, IT APPEARS  
TO BE AN 'E' TYPE GROUP WITH A FAIRLY LARGE H-ALPHA PLAGE.

IB. REGION 517 APPEARS CAPABLE OF PRODUCING ADDITIONAL CLASS M FLARES  
DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. UNSETLED CONDITIONS  
SHOULD CONTINUE DURING THE NEXT TWO DAYS WITH BRIEF ACTIVE PERIODS  
LIKELY DURING NIGHTTIME HOURS.

III. EVENT PROBABILITIES 31 DEC - 02 JAN

CLASS M 55/55/60

CLASS X 05/05/05

PROTON 01/01/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 DEC 96

PREDICTED 31 DEC - 02 JAN 97/99/100

90-DAY MEAN 30 DEC 110

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 29 DEC 09

ESTIMATED 30 DEC 12

PREDICTED 31 DEC - 02 JAN 10/14/08

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HFUS BOU 312200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 366

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 31 DECEMBER 1972.

IA. SOLAR ACTIVITY HAS BEEN MODERATE THE PAST 24 HOURS WITH FLARES UP TO CLASS M1 OCCURRING IN REGION 517 /N08E60/. REPORTS ON THE REGION ARE STILL INCOMPLETE BUT IT IS MAGNETICALLY COMPLEX WITH A BAY OF FOLLOWER POLARITY INTRUDING TO SOMEWHERE NEAR THE SOUTH SIDE OF THE LEADER PENUMBRA. NO ARCH FILAMENT SYSTEM HAS BEEN REPORTED BUT THERE ARE INDICATIONS OF CURRENT GROWTH. THE REGION IS LESS THAN TWO WEEKS OLD BUT IS LOCATED IN AN AREA OF OLD RESIDUAL MAGNETIC FIELDS. A SMALL REGION /NUMBER 518/ IS GROWING NEAR S12E53. THE REGION IS UNINTERESTING IN ITSELF BUT DEKAMETRIC RADIO REPORTS INDICATE IT IS INTERACTING ACROSS THE SOLAR EQUATOR WITH REGION 517.

IB. REGION 517 IS EXPECTED TO CONTINUE TO PRODUCE CLASS M FLARES FOR THE NEXT DAY OR SO. AFTER THAT IT SHOULD EITHER BE A RELATIVELY SIMPLE INACTIVE REGION OR CONSIDERABLY MORE COMPLEX AND ENERGETIC, DEPENDING ON THE LONG TERM GROWTH TRENDS WHICH ARE CURRENTLY UNKNOWN.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED AND IS EXPECTED TO BE QUIET WITH UNSETLED PERIODS FOR THE NEXT FEW HOURS BECOMING MORE ACTIVE LATE IN THE FORECAST PERIOD.

III. EVENT PROBABILITIES 01 JAN - 03 JAN.

CLASS M 55/55/55

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 31 DEC 98

PREDICTED 01 JAN - 03 JAN 98/99/100

90-DAY MEAN 31 DEC 110

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 30 DEC 15

ESTIMATED 31 DEC 12

PREDICTED 01 JAN - 03 JAN 10/06/14

SOLTERWARN

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