

NNNN

KBOU

HOUS 2 BOU 280200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT  
28/0200Z APRIL 1973

I. SUNSPOT DATA FROM BOULDER AT 27/1510Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

0082 N13W42 146 0010 D 09 52 GAMMA DELTA

0085 S06E14 090 0019 E 12 63 GAMMA DELTA

0087 S01E19 085 0001 B 04 11 BETA

NOTE- REGION 087 MISNUMBERED REGION 088 ON 27/0200Z MESSAGE.

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN IMP BEGIN MAX END

082 1N 27/1011Z 1015Z 1025Z

III. AREAS OF SPECIAL INTEREST-

BOTH REGIONS 082 AND 085 COMPLEX AND CAPABLE OF ENERGETIC

FLARES.

SOLTERWARN

SPAN

BT

NNNN  
KBOU  
HFUS 1 BOU 280601  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 118A  
JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 28 APRIL 1973  
IA. NO CHANGE.  
IB. REGIONS 082 (N13W49) AND 085 (S06E07) ARE BOTH CAPABLE OF  
ENERGETIC FLARE ACTIVITY. REGION 085 APPEARS TO BE DECLINING  
SOME IN WHITE LIGHT.  
II. THE GEOMAGNETIC FIELD HAS BEEN RELATIVELY QUIET DURING THE  
PAST 12 HOURS.  
III. NO CHANGE.  
IV. NO CHANGE.  
V. GEOMAGNETIC A INDICES  
OBSERVED FREDERICKSBURG 26 APRIL 20  
ESTIMATED 27 APRIL 24  
PREDICTED 28 APRIL-30 APRIL 25/22/20  
SOLTERWARN  
BT

NNNN

NNNN  
KBOU

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 118B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 28 APRIL 1973

IA. SOLAR ACTIVITY REMAINS LOW TO MODERATE. REGION 082 (N13W54) HAS GROWN IN BOTH WHITE LIGHT AND H ALPHA. AN AFS IS VISIBLE IN THE CENTER OF THE TRAILING PORTION OF THE PLAGE. REGION 085 (S06E02) HAS PRODUCED SMALL SUBFLARES, AND REMAINS A DELTA CONFIGURATION. SMALL SURGES HAVE BEEN REPORTED ON BOTH LIMBS. THE REMAINDER OF THE DISK HAS BEEN QUIET.

IB. ENERGETIC EVENTS ARE POSSIBLE FROM REGIONS 082 AND 085. EAST LIMB ACTIVITY IS LIKELY WITH TWO OLD REGIONS DUE TO RETURN TODAY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE, AND IS EXPECTED TO REMAIN AT THIS LEVEL THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 28-30 APR

CLASS M 70/70/60

CLASS X 05/05/05

PROTON 15/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 APR 111

PREDICTED 28-30 APR 113/113/111

90-DAY MEAN 27 APR 101

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 APR 20

ESTIMATED 27 APR 25

PREDICTED 28-30 APR 25/22/20

SOLTERWARN

SPAN

BT

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 118B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 28 APRIL 1973

IA. SOLAR ACTIVITY REMAINS LOW TO MODERATE. REGION 082 (N13W54) HAS GROWN IN BOTH WHITE LIGHT AND H ALPHA. AN AFS IS VISIBLE IN THE CENTER OF THE TRAILING PORTION OF THE PLAGE. REGION 085 (S06E02) HAS PRODUCED SMALL SUBFLARES, AND REMAINS A DELTA CONFIGURATION. SMALL SURGES HAVE BEEN REPORTED ON BOTH LIMBS. THE REMAINDER OF THE DISK HAS BEEN QUIET.

IB. ENERGETIC EVENTS ARE POSSIBLE FROM REGIONS 082 AND 085. EAST LIMB ACTIVITY IS LIKELY WITH TWO OLD REGIONS DUE TO RETURN TODAY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE, AND IS EXPECTED TO REMAIN AT THIS LEVEL THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 28-30 APR.

CLASS M 70/70/60

CLASS X 05/05/05

PROTON 15/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 APR 111

PREDICTED 28-30 APR 113/113/111

90-DAY MEAN 27 APR 101

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 APR 20

ESTIMATED 27 APR 25

PREDICTED 28-30 APR 25/22/20

SOLTERWARN

SPAN

BT

NNNN

KBOU

HFUS BOU 282200

FROM SPACE ENVIRONMENT SERVICE CENTER BOULDER COLO

SDF NUMBER 118

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 28 APRIL 1973.

IA. SOLAR ACTIVITY HAS BEEN LOW. FIFTEEN FLARES HAVE BEEN REPORTED  
THIS ZULU DAY, ALL CLASS C. REGION 082 (N13W58) HAS HAD A LARGE  
PENUMBRAL GROWTH, WITH THE PENUMBRA NOW 6X4 DEGREES AND  
ENCOMPASSING NEARLY ALL SIGNIFICANT UMBRA. PLAGE STRUCTURE IS  
ENHANCED BUT NOT LARGE. HOWEVER, SUNSPOT STRUCTURE IS ASSUMING  
SOME CHARACTERISTICS OF PAST SUNSPOT GROUPS WHICH PRODUCED PROTON  
FLARES. REGION 085 (S05W04) REMAINS MAGNETICALLY COMPLEX. SUNSPOT  
STRUCTURE IS FRAGMENTING. REGION 089 (S12E01) HAS EMERGED WHERE

THE LARGE FILAMENT HAD BEEN ENTERING REGION 082.

IB. ONE TO TWO CLASS M FLARES PER DAY ARE EXPECTED FOR THE NEXT 48  
HOURS. REGION 082 IS BECOMING A THREAT AS A PROTON FLARE PRODUCER,  
WITH LOCATION GEOMETRY ALSO FAVORABLE.

085 my  
mistake  
faf

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. IT IS EXPECTED TO  
REMAIN ACTIVE, BECOMING UNSETTLED TOWARD THE LATTER PORTION OF THE  
FORECAST PERIOD. THE REINFORCEMENT OF THIS SECTOR, WHICH WAS  
EXPECTED DUE TO SOLAR ACTIVITY, HAS NOT MATERIALIZED.

III. EVENT PROBABILITIES 29 APR 01 MAY

CLASS M 70/60/50

CLASS X 10/05/05

PROTON 15/10/05

PCAF YELLOW

IV. OTIAWA 10.7 CM FLUX

OBSERVED 28 APR 112

PREDICTED 29 APR-01 MAY 110/108/105

90-DAY MEAN 28 APR 101

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 APR 26

ESTIMATED 28 APR 15

PREDICTED 29 APR -01 MAY 23/18/13

SOLTERWARN

SPAN

BT

HFUS BOU 282200  
FROM SPACE ENVIRONMENT SERVICE CENTER BOULDER COLO  
SDF NUMBER 118

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 28 APRIL 1973.

IA. SOLAR ACTIVITY HAS BEEN LOW. FIFTEEN FLARES HAVE BEEN REPORTED THIS ZULU DAY, ALL CLASS C. REGION 082 (N13W58) HAS HAD A LARGE PENUMBRAL GROWTH, WITH THE PENUMBRA NOW 6X4 DEGREES AND ENCOMPASSING NEARLY ALL SIGNIFICANT UMBRA. PLAGE STRUCTURE IS ENHANCED BUT NOT LARGE. HOWEVER, SUNSPOT STRUCTURE IS ASSUMING SOME CHARACTERISTICS OF PAST SUNSPOT GROUPS WHICH PRODUCED PROTON FLARES. REGION 085 (S05W04) REMAINS MAGNETICALLY COMPLEX. SUNSPOT STRUCTURE IS FRAGMENTING. REGION 089 (S12E01) HAS EMERGED WHERE THE LARGE FILAMENT HAD BEEN ENTERING REGION 082.

IB. ONE TO TWO CLASS M FLARES PER DAY ARE EXPECTED FOR THE NEXT 48 HOURS. REGION 082 IS BECOMING A THREAT AS A PROTON FLARE PRODUCER, WITH LOCATION GEOMETRY ALSO FAVORABLE.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. IT IS EXPECTED TO REMAIN ACTIVE, BECOMING UNSETTLED TOWARD THE LATTER PORTION OF THE FORECAST PERIOD. THE REINFORCEMENT OF THIS SECTOR, WHICH WAS EXPECTED DUE TO SOLAR ACTIVITY, HAS NOT MATERIALIZED.

III. EVENT PROBABILITIES 29 APR -01 MAY

CLASS M 70/60/50

CLASS X 10/05/05

PROTON 15/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 APR 112

PREDICTED 29 APR-01 MAY 110/108/105

90-DAY MEAN 28 APR 101

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 APR 26

ESTIMATED 28 APR 15

PREDICTED 29 APR -01 MAY 23/18/13

SOLTERWARN

SPAN

BT