

NRRNNNNSSVTTVWVVYYUU

KBOU

HOUS 2 BOU 010200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
01/0200Z MAY 1973

I. SUNSPOT DATA FROM CANARY ISLANDS AT 30/0710Z

NMBR LOCATION LO AREA Z LL NN MAG-TYPE

0082 N10W80 150 0900 D 09 06 BETA-GAMMA/DELTA

0085 S06W23 093 0070 C 04 07 BETA-GAMMA

0087 S02W16 086 0010 B 02 02 BETA

0089 S12W18 088 0010 B 03 04 BETA

0092 S12E90 NO SPOTS OBSERVED

MAGNETIC POLARITIES INFERRED AT CANARIES.

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN IMP BEGIN MAX END CLASS

085 1B 30/0551Z 0601Z 0738Z M-4S

082 1B 30/1725Z 1729Z 1803Z M-2S

082 1B 30/2241Z 2255Z 2306Z X-2S

III. AREAS OF SPECIAL INTEREST-

THOUGH IT IS ON THE WEST LIMB, REGION 082 IS STILL POTENT. THE
EAST LIMB CONTINUES TO SHOW SURGE ACTIVITY INDICATIVE OF AN
APPROACHING REGION AT ABOUT S12. REGION 085 SHOWS SIGNS OF
DECLINE IN H-ALPHA AND WHITE LIGHT, BUT MIGHT STILL PRODUCE A
FLARE OF SIGNIFICANCE.

SOLTERWARN

SPAN

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HFUS 1 BOU 010600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 121A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 01 MAY 1973

IA. REGION 082 (N10W90) PRODUCED A MAJOR RADIO BURST ON 10 CM AT 01/0245Z. THE FLARE WAS A SUB BRIGHT WITH A BRIGHT SURGE AND A LOOP PROMINENCE. THE XRAY EVENT WAS CLASSIFIED X-3.

IB. REGION 092 (S12E90) HAS BRIGHT PLAGE AND A MEDIUM SIZED H TYPE SS.

II. NO CHANGE

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

SPAN

BT

HFUS 1 BOU 011300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 121B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 01 MAY 1973

IA. SOLAR ACTIVITY HAS BEEN MODERATED TO HIGH FOR THE PAST 14 HOURS. OPTICAL ACTIVITY HAS NOT BEEN IMPRESSIVE, BUT THERE HAVE BEEN THREE CLASS M AND TWO CLASS X X-RAY EVENTS. REGION 082 (ABOUT N10W95) PRODUCED THE X EVENTS. REGION 092 (S13E79), NOW REPORTED AS A COMPACT D TYPE SS, PRODUCED AT LEAST ONE OF THE M EVENTS. TWO OF THE M EVENTS SEEM TO BE ASSOCIATED WITH BRIGHT MOUNDS IN THE NW NEAR REGION 082. SHORT WAVE FADES OF 10-12 DB UP TO 15 MHZ HAVE BEEN ASSOCIATED WITH THESE FIVE EVENTS.

IB. BOTH REGIONS 082 AND 092 ARE CAPABLE OF ENERGETIC ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED THE LAST 12 HOURS. A WEAK SUDDEN COMMENCEMENT IS POSSIBLE AT ABOUT 01/2100Z BUT THE SUBSEQUENT STORM IS NOW EXPECTED TO BE MINOR.

III. EVENT PROBABILITIES 01 - 03 MAY

CLASS M 80/80/75

CLASS X 15/10/05

PROTON 15/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 APR 107

PREDICTED 01 - 03 MAY 105/104/103

90-DAY MEAN 30 APR 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 29 APR 36

ESTIMATED 30 APR 15

PREDICTED 01 - 03 MAY 12/18/12

SOLTERWARN

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HFUS 1 BOU 011300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 121B

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ESTIMATED 30 APR 15

PREDICTED 01 - 03 MAY 12/18/12

SOLTERWARN

SPAN

BT

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 121

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 01 MAY 1973

IA. SOLAR ACTIVITY WAS HIGH EARLY IN THE PAST 24 HOURS, AND REMAINS MODERATE AT PRESENT. REGION 082 (N10W90) CONTINUES TO PRODUCE SPECTACULAR PROMINENCE ACTIVITY AND ENERGETIC FLARES FROM BEHIND THE WEST LIMB. TWO X-RAY CLASS X FLARES WITH ASSOCIATED SHORTWAVE FADES AND CENTIMETRIC RADIO BURSTS WERE OBSERVED FROM THE REGION AT 30/2250Z AND 01/0244Z. REGION 085 (S07W46) HAS DECLINED CONSIDERABLY, AND SO HAVE THE SMALLER REGIONS THAT LIE IN THE SAME AREA. REGION 092 (S13E72), APPARENTLY A REDEVELOPED AREA NEAR THE SITE OF OLD REGION 077, HAS PRODUCED SEVERAL SUBFLARES, A COUPLE OF X-RAY CLASS M FLARES (01/0913Z, 01/1157Z) AND TWO IMPORTANCE 1-NORMAL FLARES (01/1833Z AND 01/2020Z), WITH THE LATER ONE TENTATIVELY X-RAY CLASS X.

IB. REGION 082 WILL BECOME LESS OF A THREAT AS IT ROTATES FURTHER AROUND, AND REGION 085 HAS APPARENTLY DECAYED TO THE POINT WHERE IT IS NO LONGER LIKELY TO PRODUCE ENERGETIC ACTIVITY. REGION 092 IS QUITE ACTIVE AND DYNAMIC IN ITS APPEARANCE, WITH TIGHT MAGNETIC GRADIENTS AND A POSSIBLE DELTA CONFIGURATION. THE REGION WILL LIKELY CONTINUE TO PRODUCE ENERGETIC FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE, AND WILL NOT CHANGE MUCH FROM THAT CONDITION IN THE NEXT TWO OR THREE DAYS. SOME MINOR GEOMAGNETIC DISTURBANCE IS POSSIBLE ON 02 MAY AS A RESULT OF THE MAJOR EVENT ON 29 APRIL.

III. EVENT PROBABILITIES 02 MAY-04 MAY

CLASS M 80/80/80

CLASS X 20/15/15

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 MAY 113

PREDICTED 02 MAY-04 MAY 110/109/108

90-DAY MEAN 01 MAY 102

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 30 APR 17

ESTIMATED 01 MAY 14

PREDICTED 02 MAY-04 MAY 19/15/12

SOLTERWARN