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KBOU

HOUS 2 BOU 300200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
300200Z JULY 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT
291700Z. LOCATIONS VALID AT 30 JULY 0000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0177 S05E19 290 0100 C 06 05 BETA

MAGNETIC CLASSIFICATION INFERRED AT BOULDER.

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 300000Z.

NMBR LOCATION LO

0176 N15E36 273

0180 S12E26 283

0181 N10E90 219

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN	IMP	BEGIN	MAX	END	CLASS
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0176	4N	291312	1328	AFTER 1900	M5-7S
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III. NONE.

SOLTERWARN

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HFUS 1 BOU 300600
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 211A
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 30 JULY 1973

IA. SOLAR ACTIVITY HAS BEEN LOW SINCE THE MAJOR FLARE AT 29/1312Z.
REGION 177 (S06E18) IS THE ONLY REGION CONTAINING SPOTS.

IB. NO MAJOR ACTIVITY IS EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN DISTURBED DURING THE PAST 8 HOURS
AT SUB STORM LEVEL. THESE CONDITIONS WILL CONTINUE DURING NEXT 8
HOURS.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 211A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 30 JULY 1973

IA. SOLAR ACTIVITY HAS BEEN LOW SINCE THE MAJOR FLARE AT 29/1312Z.
REGION 177 (S06E18) IS THE ONLY REGION CONTAINING SPOTS.

IB. NO MAJOR ACTIVITY IS EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN DISTURBED DURING THE PAST 8 HOURS
AT SUB STORM LEVEL. THESE CONDITIONS WILL CONTINUE DURING NEXT 8
HOURS.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

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HFUS 1 BOU 301300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 211B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 30 JULY 1973

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. SPOTS ARE NOW VISIBLE IN REGION 176 (N15E30).

IB. NO MAJOR ACTIVITY IS EXPECTED.

II. THE GEOMAGNETIC FIELD WAS ACTIVE DURING LOCAL NIGHT. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED FOR THE NEXT 72 HOURS. A SLIGHT PROTON ENHANCEMENT IS UNDERWAY AT SATELLITE ALTITUDES.

III. EVENT PROBABILITIES 30 JUL - 01 AUG

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 JUL 80

PREDICTED 30 JUL - 01 AUG 81/82/82

90-DAY MEAN 29 JUL 91

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 28 JUL 13

ESTIMATED 29 JUL 20

PREDICTED 30 JUL - 01 AUG 17/18/20

SOLTERWARN

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KBOU

HFUS BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 211

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 30 JULY 1973.

IA. SOLAR ACTIVITY HAS BEEN VERY LOW THE PAST 24 HOURS. REGION 177 (S05E07), THE ONLY ESTABLISHED SUNSPOT GROUP VISIBLE, HAS PRODUCED TWO NON-ENERGETIC SUBFLARES. THE IMPORTANCE 4N FLARE WHICH BEGAN 29/1312Z IN REGION 176 (N15E24) HAD A TOTAL DURATION OF ABOUT 12 HOURS, TWO FAINT FLARE RIBBONS WERE STILL VISIBLE AT 30/0125Z. THE 1-8A X-RAY BURST ASSOCIATED WITH THE 29/1312Z EVENT WAS OF CLASS M7 INTENSITY AND HAD A TOTAL DURATION OF ABOUT 20 HOURS. THE FILAMENT WHOSE ERUPTION TRIGGERED THIS LARGE FLARE HAS PARTIALLY REFORMED. THERE HAVE BEEN INDICATIONS THAT SUNSPOTS MAY BE DEVELOPING IN THE REGION COVERED BY THE FLARE, BUT AS YET NO ESTABLISHED SUNSPOT GROUP HAS BEEN REPORTED. THE VISIBLE DISK IS DEVOID OF ACTIVE REGIONS OTHER THAN 176 AND 177.

IB. SOLAR ACTIVITY WILL REMAIN VERY LOW FOR THE NEXT 72 HOURS. NON-ENERGETIC SUBFLARES ARE EXPECTED FROM REGION 177. SUBFLARE ACTIVITY IS POSSIBLE BUT CONSIDERED LESS LIKELY FROM REGION 176.

II. THE GEOMAGNETIC FIELD WAS MILDLY ACTIVE DURING LOCAL NIGHT. GENERALLY QUIET CONDITIONS ARE EXPECTED UNTIL A MINOR DISTURBANCE BEGINS LATE 31 JULY OR EARLY 01 AUGUST. A SMALL PROTON ENHANCEMENT (EIGHT TIMES BACKGROUND AT 21-70 MEV) HAS BEEN IN PROGRESS SINCE 30/0430Z. THE ENHANCEMENT IS NOT EXPECTED TO INCREASE SIGNIFICANTLY.

III. EVENT PROBABILITIES 31 JUL - 02 AUG.

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 30 JUL 84

PREDICTED 31 JUL - 02 AUG 85/85/86

90-DAY MEAN 30 JUL 91

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 29 JUL 20

28

ESTIMATED 30 JUL 16

PREDICTED 31 JUL - 02 AUG 18/22/12

SOLTERWARN

SPAN

BT