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HOUS 2 BOU 290200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
290200Z JULY 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT
281520Z. LOCATIONS VALID AT 290000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0177 S05E32 290 0090 H 02 05 ALPHA

MAGNETIC CLASS INFERRED AT BOULDER.

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 290000Z.

NMBR LOCATION LO COMMENT

0175 N10W53 015

0176 N11E49 273

0178 N03E68 254

0179 S02W40 002 NEW REGION

II. NONE.

III. NONE.

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HFUS 1 BOU 290600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 210A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 29 JULY 1973

IA. SOLAR ACTIVITY HAS BEEN VERY LOW.

IB. NO MAJOR ACTIVITY IS EXPECTED. CLASS C FLARE ACTIVITY WILL INCREASE
DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD REMAINS DISTURBED AT SUB STORM LEVEL.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

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HFUS 1 BOU 291300
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO.
SDF NUMBER 210B
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 29 JULY 1973
IA. SOLAR ACTIVITY CONTINUES AT A VERY LOW LEVEL.
IB. NO SIGNIFICANT ACTIVITY IS EXPECTED.
II. THE GEOMAGNETIC FIELD HAS EXPERIENCED A MINOR SUBSTORM THE PAST
12 HOURS. UNSETTLED TO QUIET CONDITIONS ARE EXPECTED FOR THE NEXT 72
HOURS.
III. EVENT PROBABILITIES 29 JUL - 31 JUL
CLASS M 10/10/10
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. OTTAWA 10.7 CM FLUX
OBSERVED 28 JUL 82
PREDICTED 29 JUL - 31 JUL 83/83/83
90-DAY MEAN 28 JUL 92
V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 27 JUL 25
ESTIMATED 28 JUL 14
PREDICTED 29 JUL - 31 JUL 19/10/05
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HFUS BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 210

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL
ACTIVITY ISSUED 2200Z 29 JULY 1973

IA. A VERY LARGE SOLAR FLARE BEGAN AT 29/1312Z. THE FLARE,
CENTERED NEAR N13E45, WAS TRIGGERED BY THE ACTIVIATION
AND DISAPPEARANCE OF A FILAMENT THAT HAD BEEN VISIBLE FOR
THREE DAYS. THERE WERE NO SUNSPOTS IN THE REGION COVERED
BY THE FLARE. FLARE MAXIMUM OCCURRED AROUND 29/1328Z. THE
FLARE WAS STILL IN PROGRESS AS OF 29/1900Z. FROM PHOTO-
GRAPHIC RECORDS THE FLARE WAS JUDGED TO BE OF IMPORTANCE
4N, THE LARGEST OPTICAL FLARE OBSERVED IN MANY YEARS. PRE-
LIMINARY X-RAY DATA INDICATE THAT THE EVENT WAS CLASS M5-M7
WITH 1-8 FLUX STILL DECAYING AS OF 29/1900Z. WEAK TO
MODERATE SHORT WAVE FADEOUTS WERE REPORTED. INTENSITY 3
TYPE IV RADIO EMISSION AT 18-80 MHZ WAS OBSERVED 29/1326-
1400Z. THE PEAK RADIO EMISSION AT CENTIMETRIC WAVELENGTHS
OCCURRED AT 1420 MHZ AND AMOUNTED TO ONLY 210 FLUX UNITS.
REGION 177 (S05E20) IS THE ONLY SUNSPOT GROUP ON THE VISIBLE
DISK. THIS REGION HAS DEVELOPED FOLLOWER SPOTS WITHIN THE
LAST 24 HOURS AND HAS PRODUCED OCCASIONAL NON-ENERGETIC
SUBFLARES.

IB. A LOW LEVEL OF SOLAR ACTIVITY IS EXPECTED DURING THE
NEXT 72 HOURS. NON-ENERGETIC SUBFLARES ARE EXPECTED FROM
REGION 177.

II. THE GEOMAGNETIC FIELD WAS ACTIVE DURING LOCAL NIGHT.
UNSETLED TO ACTIVE CONDITIONS ARE EXPECTED DURING LOCAL
NIGHT FOR THE NEXT 24 HOURS. THE 29/1312Z SOLAR FLARE IS
EXPECTED TO PRODUCE ACTIVE TO MILDLY DISTURBED CONDITIONS
BEGINNING 31 JULY-01 AUGUST AND LASTING FOR APPROXIMATELY
48 HOURS.

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 10.7CM 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 14/18/20

SOLTERWARN

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