

NNNN

KBOU

HOUS 2 BOU 100200

JOINT AESU/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT 100200

JUNE 1973

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT 091530Z.

LOCATIONS VALID AT 10 JUNE 0000Z

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0127 N13W11 261 0000 B 03 02 BETA

0131 N15E41 209 0015 D 05 15 BETA-GAMMA-DELTA

0132 S15E41 209 0008 H 02 02 ALPHA

MAGNETIC CLASS OBSERVED AT BOULDER FOR REGIONS 131 AND 132.

REGION 127 INFERRED.

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 10 JUNE 0000Z

NMBR LOCATION LO

118 S13W85 335

130 N06W29 279

133 N13W37 287

134 N05W16 266

135 S12E77 173

136 N13E18 232

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN IMP BEGIN MAX END CLASS

131 ON 09/1813Z 1818Z 1850Z S

III. AREAS OF SPECIAL INTEREST-

REGION 131 (N15E41) & NORTHEAST LIMB.

SOLTERWARN

SPAN

BT

NNNN

KBOU

HFUS 1 BOU 100601

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 161A

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 10 JUNE 1973

IA. DURING THE PAST 8 HOURS ALL THE ACTIVITY HAS BEEN SURGES AND SPRAYS ON THE NE LIMB, NE15-NE18.

IB. THE ACTIVITY ON THE NE LIMB MAY CONTINUE AND IN ABOUT 24 HOURS THE REGION PRODUCING THE ACTIVITY SHOULD BE ON THE VISIBLE DISK.

II. THE GEOMAGNETIC FIELD CONTINUES TO BE ONLY SLIGHTLY DISTURBED.

III. EVENT PROBABILITIES 10-12 JUNE

CLASS M 25/25/30

CLASS X 01/02/03

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX - NO CHANGE.

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 JUNE 04

ESTIMATED 09 JUNE 08

PREDICTED 10-12 JUNE 15/20/25

SOLTERWARN

SPAN

BT

NNNN

KBOU

HFUS 1 BOU 101300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 161B

JOINT AESU/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 10 JUNE 1973

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. SPECTACULAR EAST LIMB ACTIVITY (INCLUDING A REPORTED ONE-BRIGHT (C3 X-RAY) FLARE AT 0840Z) OVER THE PAST FEW HOURS INDICATES THE ARRIVAL OF A FAIRLY ACTIVE REGION (137, N10E90). REGION 137 LIKELY DEVELOPED IN THE LEADING PORTION OF OLD REGION 103. REGIONS 127 (N13W18) AND 131 (N15E34) HAVE EACH PRODUCED A SUBFLARE. OTHER REGIONS ON THE DISK REMAIN QUIET AND SHOW ONLY MINOR FLUXUATIONS IN INTENSITY. A NEW REGION (138) IS EMERGING NEAR N15E50.

IB. SUBFLARE FREQUENCY SHOULD INCREASE. THE POTENTIAL FOR SOMEWHAT MORE ENERGETIC FLARE ACTIVITY NOW EXISTS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. RECURRENCE SUGGESTS THE FIELD MAY BECOME UNSETLED TO ACTIVE LATER IN THE FORECAST PERIOD.

III. EVENT PROBABILITIES 10 JUN - 12 JUN

CLASS M 40/40/40

CLASS X 02/02/02

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 JUN 86

PREDICTED 10 JUN - 12 JUN 88/89/91

90-DAY MEAN 09 JUN 99

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 JUN 04

ESTIMATED 09 JUN 10

PREDICTED 10 JUN - 12 JUN 15/20/25

SOLIERWARN

SPAN

BT

NNNN

KBOU

HFUS BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 161

JOINT AESU/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 JUNE 1973.

IA. SOLAR FLARE ACTIVITY HAS BEEN LOW. THE NORTHEAST LIMB HAS
ONCE AGAIN BECOME THE CHIEF CENTER OF INTEREST AS FAR AS ACTIVITY
IS CONCERNED. A PROMINENCE CENTERED NEAR N13 EAST LIMB ERUPTED
AT 10/0815-0912Z AND REACHED 0.45 SOLAR RADIUS ABOVE THE LIMB.
AN IMPORTANCE 1B LIMB FLARE WAS REPORTED IN CONJUNCTION WITH THIS
ERUPTIVE PROMINENCE. THE INTENSITY OF THE ASSOCIATED X-RAY BURST
WAS ONLY CLASS C2, BUT ITS DURATION WAS IN EXCESS OF FOUR HOURS.
SURGES TO 0.2 SOLAR RADIUS, SPRAY-TYPE EJECTIONS, AND CORONAL
RAIN WERE REPORTED FROM THE SAME AREA OF THE LIMB EARLY IN THE
DAY. THE AREA HAS BEEN RELATIVELY QUIET SINCE 10/1300Z. PRE-
VIOUSLY ACTIVE REGION 103 (LATITUDE N10) IS DUE TO RETURN LATE
10-EARLY 11 JUNE. REGION 103 WAS DECAYING RAPIDLY AT WEST LIMB
PASSAGE. HOW CLOSELY THE REGION NOW APPROACHING THE LIMB MAY BE
ASSOCIATED WITH OLD 103 REMAINS TO BE SEEN.

IB. A LOW LEVEL OF ACTIVITY IS EXPECTED FROM THOSE REGIONS NOW
FULLY VISIBLE. ENERGETIC ACTIVITY COULD COME FROM THE NE LIMB.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. ACTIVE TO DISTURBED
CONDITIONS ARE EXPECTED FOR THE NEXT 72 HOURS. DISTURBED PERIODS
OF MINOR STORM INTENSITY ARE LIKELY DURING LOCAL NIGHT.

III. EVENT PROBABILITIES 11 JUN - 13 JUN.

CLASS M 30/40/40

CLASS X 02/02/02

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 10 JUN 88

PREDICTED 11 JUN - 13 JUN 90/92/94

90-DAY MEAN 10 JUN 99

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 09 JUN 12

ESTIMATED 10 JUN 18

PREDICTED 11 JUN - 13 JUN 25/25/20

SOLTERWARN

SPAN

BT

NNNN