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KBOU

HOUS 2 BOU 180200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT  
180200 JULY 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT  
17/1815. LOCATIONS VALID AT 18 JULY 0000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0168 S12W84 192 0020 B 06 02 BETA

0171 S06W02 110 0010 B 05 07 BETA

0172 S12W40 148 0010 B 04 06 BETA

0173 N17E52 056 0000 A 00 01 ALPHA

IA. NONE.

II. NONE.

III. NONE.

SOLTERWARN

SPAN

BT

HFUS 1 BOU 180600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 199A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 18 JULY 1973

IA. SOLAR ACTIVITY REMAINS LOW, WITH ALL REGIONS STABLE OR GROW-  
ING SLOWLY. NEW REGION 174 AT N14W46 SHOULD BE NOTED.

IB. SOLAR ACTIVITY WILL REMAIN LOW, WITH ONLY C-CLASS SUBFLARES  
EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND SHOULD REMAIN SO  
THROUGH JULY 20.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

SPAN

BT

HFUS 1 BOU 181300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 199B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 18 JULY 1973

IA. SOLAR ACTIVITY REMAINS LOW. ALL VISIBLE REGIONS ARE SMALL, BUT  
SEVERAL ARE EXPERIENCING GROWTH.

IB. ACTIVITY WILL REMAIN LOW, WITH OCCASSIONAL CLASS C SUBFLARES  
EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO REMAIN  
QUIET TO MILDLY UNSETTLED.

III. EVENT PROBABILITIES 18 JUL - 20 JUL

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 JUL 76

PREDICTED 18 JUL - 20 JUL 79/80/80

90-DAY MEAN 17 JUL 95

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 16 JUL 13

ESTIMATED 17 JUL 05

PREDICTED 18 JUL - 20 JUL 09/07/10

SOLTERWARN

SPAN

BT

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 199

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 18 JULY 1973.

IA. SOLAR ACTIVITY HAS REMAINED AT A VERY LOW LEVEL. REGION 168, NOW PASSING OVER THE WEST LIMB AT S12, PRODUCED SEVERAL NON-ENERGETIC SURGES. THE LARGEST OF THESE SURGES WAS VISIBLE FROM 1550Z TO 1700Z, EXTENDED OUT .06 SOLAR RADII, AND COVERED 6 DEGREES IN LATITUDE. NEW REGION 174 (N13W55) NOW CONTAINS AN ARCH FILAMENT SYSTEM, INDICATING THAT DEVELOPMENT IS STILL OCCURRING. SOME PENUMBRA IS VISIBLE ON THE TRAILING SPOT OF REGION 174. THIS REGION APPARENTLY IS INTERACTING WITH SOME OF THE MAGNETIC FIELDS REMAINING FROM OLD REGION 137. NEUTRAL LINE ANALYSIS AND DATA FROM THE KITT PEAK MAGNETOGRAPH REVEALS LEADING POLARITY FIELDS EAST OF THE TRAILING SPOT IN REGION 174. REGION 174 PRODUCED A ZERO-BRIGHT CLASS C FLARE AT 18/0235Z, AND SEVERAL OTHER NON-ENERGETIC SUBFLARES ALSO HAVE BEEN OBSERVED THERE. OTHER REGIONS HAVE NOT DEVELOPED SIGNIFICANTLY OR HAVE DECAYED.

IB. SOLAR ACTIVITY PROBABLY WILL REMAIN VERY LOW. REGION 174 MAY PRODUCE SEVERAL CLASS C SUBFLARES IF ITS DEVELOPMENT CONTINUES AT THE PRESENT RATE. NON-ENERGETIC SURGES ARE EXPECTED TO BE VISIBLE ABOVE DEPARTING REGION 168.

II. THE GEOMAGNETIC FIELD HAS REMAINED QUIET. QUIET CONDITIONS PROBABLY WILL CONTINUE THROUGH 20 JULY, AFTER WHICH TIME UNSETTLED CONDITIONS WILL BEGIN.

III. EVENT PROBABILITIES 19 JUL - 21 JUL.

CLASS M 08/08/08

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 18 JUL 81

PREDICTED 19 JUL - 21 JUL 80/80/78

90-DAY MEAN 18 JUL 94

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 17 JUL 05

ESTIMATED 18 JUL 06

PREDICTED 19 JUL - 21 JUL 07/08/12

SOLTERWARN

SPAN

BT