

HOUS 2 BOU 070200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY

ISSUED AT 07/0200 SEP 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT 061515  
LOCATIONS VALID AT 07 SEP 0000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0209 S15W39 192 0200 C 07 14 BETA

0210 N22W46 199 0160 D 07 13 BETA

0212 N14W10 163 0270 C 08 09 BETA

0215 S18W09 162 0050 C 10 15 BETA

0219 S12E18 135 0130 C 11 45 BETA

MAGNETIC CLASSIFICATIONS MEASURED AT BOULDER.

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 07/0000Z.

NMBR LOCATION LO COMMENT

0213 N06W90 253 BEHIND LIMB-MAY CONTAIN SPOTS NOT OBSERVED-  
SITE OF CLASS X1 EVENT BELOW IN PART II.

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS:

RGN	IMP	BEGIN	MAX	END	CLASS
213	SPRAY-3	06/0918Z	06/0922Z	06/1030Z	X1S

III. AREAS OF SPECIAL INTEREST:

REGION 219 CONTAINS TWO SUPERPOSED BIPOLES. THE LEADER MAY BE MERGING. THE IMPORTANCE-3 CLASS X1 SPRAY( ABOVE) APPARENTLY WAS CAUSED BY ENERGETIC ACTIVITY IN REGION 213, NOW BEHIND THE WEST LIMB.

SOLTERWARN

SPAN

BT

NNNN

KBOU

HFUS 1 BOU 070600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 250A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 07 SEP 1973

IA. SOLAR ACTIVITY HAS REMAINED AT A MODERATE LEVEL DURING THE PAST 8 HOURS. TWO NON-ENERGETIC SUBFLARES OCCURRED IN REGION 213, NOW BEHIND THE WEST LIMB NEAR N06W90. SPOT GROWTH HAS OCCURRED IN THE TRAILER SECTION OF REGION 219(S12E15). REGION 209(S15W42) CONTINUES TO EXHIBIT AN UNSTABLE FILAMENT WITH SOME ASSOCIATED ENHANCED PLAGE.

IB. NO CHANGE

II. NO CHANGE

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

SPAN

BT

NNNN

ZCZC 0602

HIBX EDAK 070500

NIL/EDAK

NNNN

KBOU

HFUS 1 BOU 071420

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 250B

JOINT AFGWC/R

CONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 07 SEPTEMBER 1973.

IA. SOLAR ACTIVITY HAS BEEN MODERATE THE PAST 24 HOURS WITH SEVERAL SUBFLARE FROM REGIONS 209 (S15W45), 210 (N22W52), 213 (N06W95), 215 (S18W15) AND 219 (S12E13). TWO X-RAY EVENTS AT 06/1951Z AND 07/0740Z WERE NOT CORRELATED WITH AN OPTICAL EVENT, BUT COULD HAVE ORIGINATED BEHIND THE WEST LIMB IN REGION 213. AT 1135Z A 1 OR 2B (X1) FLARE OCCURRED IN REGION 109. IT WAS ACCCOMPANIED BY 10CM BURST OF OVER 300 FLUX UNITS AND TOTAL SWF UP TO 20 MHZ.

IB. SOLAR ACTIVITY IS EXPECTED TO DECREASE DURING THIS PERIOD BUT CLASS M AND X EVENTS ARE POSSIBLE.

II. THE GEOMAGNETIC FIELD IS UNSETLED AND IS EXPECTED TO BECOME ACTIVE BY THE END OF THIS PERIOD.

III. EVENT PROBABILITIES 07 SEP 09 SEP.

CLASS M 70/60/50

CLASS X 05/04/03

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 06 SEP 129

PREDICTED 07 SEP - 09 SEP 126/121/117

90-DAY MEAN 06 SEP 90

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 05 SEP 15

ESTIMATED 06 SEP 11

PREDICTED 07 SEP - 09 SEP 12/12/15

SOLTERWARN

SPAN

BT

NNNN

KBOU

HFUS BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 250

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 07 SEPTEMBER 1973.

IA. REGION 209 (S14W47) HAS BEEN RELATIVELY STABLE SINCE PRODUCING THE MAJOR EVENT AT 071135Z. THIS EVENT OCCURRED IN CONJUNCTION WITH A 2B FLARE WHICH ALSO PRODUCED TOTAL SWF UP TO 20 MHZ AND DISCRETE FREQUENCY BURST AS HIGH AS 459 F.U. ON 2695 MHZ. SWEEP FREQUENCY TYPE II AND TYPE IV BURST WERE ALSO REPORTED. REGION 212 (N14W18) HAS PRODUCED SEVERAL SUBFLARES DURING THE PAST 24 HOURS BUT NONE APPEARED ENERGETIC. A SMALL BI-POLAR REGION IS DEVELOPING IN THE VICINITY OF 212 WHICH MAY AID IN ADDITIONAL FLARE PRODUCTION FROM THIS REGION.

IB. FLARE ACTIVITY SHOULD CONTINUE AT A LOW TO MODERATE LEVEL FOR THE NEXT 72 HOURS.

II. THE PROTON FLUX AT SATELLITE LEVELS INCREASED TO 60 TIMES THE BACKGROUND FOR A SHORT PERIOD AROUND 1430Z TODAY BUT HAS SHOWN A STEADY DOWNWARD TREND SINCE THAT TIME. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE. NO SIGNIFICANT CHANGES ARE EXPECTED FOR THE NEXT 24 HOURS BUT ACTIVE TO MINOR STORM CONDITIONS ARE EXPECTED EARLY ON THE 9TH OF SEPT AND LAST FOR THE DURATION OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 08 SEP - 10 SEP.

CLASS M 65/60/55

CLASS X 05/02/02

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 07 SEP 124

PREDICTED 08 SEP - 10 SEP 120/117/114

90-DAY MEAN 07 SEP 90

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 06 SEP 10

ESTIMATED 07 SEP 10

PREDICTED 08 SEP - 10 SEP 10/24/20

SOLTERWARN

SPAN

BT