

HOUS 2 BOU 310200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED

AT 310200 AUG 1973

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT 301550
LOCATIONS VALID AT 31 AUG 0000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0203 N15W06 255 0120 C 16 07 BETA

0208 N03W25 274 0020 B 03 20 BETA

0209 S15E52 197 0350 D 08 34 BETA

0211 S12E01 248 0010 B 04 11 BETA

0212 N14E82 167 0080 H 00 01 ALPHA

0213 N06W01 250 0010 - 04 -- BETA

NOTE: MAGNETIC CLASSIFICATIONS INFERRED AT BOULDER EXCEPT FOR RGN
209 WHICH IS MT WILSONS CLASSIFICATION.

IA. H-ALPHA PLACES WITHOUT SPOTS. LOCATIONS VALID AT 31 AUG 0000Z.

NMBR LOCATION LO

0207 N14E24 225

II. NONE

III. AREAS OF SPECIAL INTEREST:

REGIONS 209, 212 WILL LIKELY BE SUBFLARE CENTERS.

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HFUS 1 BOU 310600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 243A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 31 AUG 1973

IA. SOLAR ACTIVITY IS LOW, THOUGH SUBFLARE FREQUENCY WAS HIGHER DURING THE PAST 12 HOURS. THE SUBFLARES HAVE BEEN NON-ENERGETIC, AND HAVE COME MOSTLY FROM REGIONS 209(S15E49) AND 212(N14E79). NEWLY DEVELOPING REGION 213(N06W04) MAY BE SLOWING SOME IN ITS GROWTH.

IB. SEVERAL SUBFLARES ARE EXPECTED FROM REGIONS 209 AND 212, WITH ONLY AN OCCASIONAL SMALL FLARE FROM OTHER DISK REGIONS. THE ROTATION OF REGION 212 FURTHER ONTO THE DISK THROUGH THE DAY SHOULD ALLOW BETTER EVALUATION OF ITS POTENTIAL FOR ENERGETIC FLARE ACTIVITY. AT PRESENT, NOTHING ON THE SOLAR DISK INDICATES A VERY HIGH PROBABILITY OF ENERGETIC FLARE ACTIVITY.

II. THE GEOMAGNETIC FIELD PRESENTLY UNSETTLED, CONTINUES TO QUIET DOWN IN THE WAKE OF THE PAST FEW DAYS DISTURBANCE.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

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HFUS 1 BOU 311300
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 243B
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 31 AUG 1973
IA. MINOR SOLAR ACTIVITY INCREASED SOMEWHAT DURING THE PAST 12
HOURS. REGION 209(S15E46) (WITH SLOW GROWTH IN WHITE LIGHT) PRO-
DUCED SUBFLARES AT 0601 AND 0750 WITH MEASURABLE X-RAY EMISSION.
A SMALL RADIO BURST WAS ALSO RECORDED DURING THE FIRST FLARE.
REGION 212(N14E76) PRODUCED A SUBFLARE AT 0305 WHICH TRIGGERED SOME
LIMB ACTIVITY IN THE TRAILING PORTION OF THE REGION. A MINOR RADIO
NOISE STORM IS IN PROGRESS AT METER WAVELENGTHS.
IB. MINOR FLARE ACTIVITY SHOULD CONTINUE TO INCREASE. REGION 209
APPEARS TO HAVE THE POTENTIAL FOR CLASS M ACTIVITY, BUT SUCH EVENTS
ARE EXPECTED TO BE INFREQUENT.
II. THE GEOMAGNETIC FIELD IS QUIETING, AND SOLAR PROTON
FLUXES NEAR EARTH REMAIN AT BACKGROUND LEVELS.
III. EVENT PROBABILITIES 31 AUG - 02 SEPT
CLASS M 25/30/30
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. OTTAWA 10.7CM FLUX
OBSERVED 30 AUG 99
PREDICTED 31 AUG - 02 SEPT 102/104/105
90-DAY MEAN 31 AUG 86
V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 29 AUG 21
ESTIMATED 30 AUG 11
PREDICTED 31 AUG-02 SEPT 08/08/08
SOLTERWARN
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HFUS BOU 312210

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 243

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 31/2200Z AUGUST 1973

IA. RGNS 212 (N14E68) AND 209 (S15E41) HAVE BEEN RESPONSIBLE FOR MOST OF THE FLARE ACTIVITY DURING THE PAST 24 HOURS. RGN 212 IS A FAIR SIZE H TYPE GROUP AND IS SIMPLE IN MAGNETIC STRUCTURE. THE PLAGE APPEARS TO BE GROWING SLOWLY. THE MOST ENERGETIC OF THE SUB-FLARE ACTIVITY DURING THE PAST 24 HRS OCCURRED IN THIS RGN AT 311928 UT WITH A RADIO BURST THAT REACHED 47 FU ON 410 MHZ. RGN 209 NOW HAS A DELTA CONFIGURATION AND IS GROWING SLOWLY IN SPOT AREA. THE REMAINING DISK FEATURES ARE RELATIVELY SIMPLE AND STABLE. IB. SOLAR ACTIVITY IS EXPECTED TO SLOWLY INCREASE THROUGHOUT THE NEXT 72 HOURS.

II. THE GEOMAGNETIC FIELD CONTINUES ITS TREND TOWARD QUIET CONDITIONS. GENERALLY QUIET CONDITIONS SHOULD PREVAIL THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 01-03 SEPT

CLASS M 30/35/35

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 AUG 108

PREDICTED 01-03 SEPT 111/113/114

90-DAY MEAN 31 AUG 87

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 30 AUG 14

ESTIMATED 31 AUG 11

PREDICTED 01-03 SEPT 08/07/06

SOLTERWARN

SPAN

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