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HOUS 2 BOU 020200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
020200 SEPT 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT
2100 UT. LOCATIONS VALID AT 02 SEPT 0000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0203 N15W39 258 0120 H 02 01 ALPHA

0208 N02W50 269 0010 B 03 12 BETA

0209 S16E27 192 0350 D 09 42 DELTA

0211 S13W24 243 0010 B 04 13 BETA

0212 N13E58 161 0240 C 10 07 BETA

0213 N06W32 251 0010 B 06 11 BETA

0215 S17E58 161 0010 B 02 05 BETA

0216 N15W20 239 0010 B 02 07 BETA

0210 N22E21 198 - - - 02 -

0217 N07W01 220 - - - 01 -

0218 S09E08 211 - - - 01 -

MAGNETIC CLASSIFICATION FROM BOULDER.

IA. H-ALPHA PLACES WITHOUT SPOTS. LOCATIONS VALID AT 020000Z.

NMBR LOCATION LO

0207 N15W10 229

II. NONE.

III. AREAS OF SPECIAL INTEREST -

REGIONS 0209 AND 0212

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HFUS 1 BOU 020600
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 245A
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 02 SEPTEMBER 1973
IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST EIGHT HOURS. VERY
LITTLE ACTIVITY HAS BEEN OBSERVED. REGIONS 209 (S16E24) AND 213
(N06W35) ARE THE MOST INTERESTING DISK FEATURES.
IB. NO MAJOR SOLAR ACTIVITY IS EXPECTED DURING THE NEXT SEVEN HOURS.
II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED
DURING THE PAST 24 HOURS. IT IS EXPECTED TO CONTINUE IN THAT MANNER
DURING THE NEXT 24 HOURS.
III. NO CHANGE.
IV. NO CHANGE.
V. NO CHANGE.
SOLTERWARN
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HFUS 1 BOU 021300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 245B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 02 SEPTEMBER 1973

IA. SOLAR ACTIVITY HAS BEEN LOW, WITH SUBFLARES AVERAGING ABOUT ONE PER HOUR. REGION 215 (S17E52) HAS PRODUCED TWO CLASS 1 FLARES (1B AT 0616Z (C3X-RAY), 1N AT 0359Z), AND IS PRESENTLY THE MOST ACTIVE FLARING REGION. NEWLY EMERGENT GROWING REGION 218 (S09W02) HAS PRODUCED SEVERAL SUBFLARES, BUT IS JUDGED TO BE TOO SMALL YET TO HAVE MUCH POTENTIAL FOR A LARGE FLARE. REGION 209 (S16E20) IS SHOWING SOME SIGNS OF ENTERING A DECLINE PHASE, AND HAS BEEN ANOMALOUSLY QUIET. A NEW, EVIDENTLY WEAK REGION (219) IS ROTATING OVER THE LIMB AT SE13. OTHER DISK REGIONS HAVE HAD NO NOTEWORTHY ACTIVITY. IB. CONTINUED SUBFLARE ACTIVITY IS EXPECTED, LARGELY FROM REGIONS 209, 215 AND 218, WITH ONLY AN OCCASIONAL SUBFLARE FROM THE OTHER REGIONS. REGION 209 SEEMS CAPABLE OF ENERGETIC FLARE ACTIVITY, AND IF IT ENTERS AN ACCELERATED DECLINE PHASE THE PROBABILITY OF CLASS M (OR POSSIBLY CLASS X) ACTIVITY WOULD INCREASE. CLASS C FLARES ARE LIKELY FROM REGIONS 209 AND 215.

II. THE GEOMAGNETIC FIELD IS QUIET AND IS EXPECTED TO REMAIN SO FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 02 SEP - 04 SEP

CLASS M 35/40/40

CLASS X 03/04/04

PROTON 02/03/03

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 SEP 113

PREDICTED 02 SEP - 04 SEP 115/116/117

90-DAY MEAN 01 SEP 87

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 31 AUG 11

ESTIMATED 01 SEP 07

PREDICTED 02 SEP - 04 SEP 07/06/06

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HFUS BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 245

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 02 SEPT. 1973.

IA. SOLAR ACTIVITY CONTINUES TO INCREASE GRADUALLY AS DEVELOPMENT OCCURS IN SEVERAL REGIONS. CURRENTLY AT LEAST EIGHT SPOT GROUPS ARE VISIBLE. REGION 215 (S17E46) HAS DEVELOPED RAPIDLY AND NOW CONTAINS BRIGHT PLAGE, A BETA-GAMMA SPOT GROUP WITH A DELTA CONFIGURATION IN THE LEADER, AND ARCH FILAMENTS. A CLASS M1 X-RAY ENHANCEMENT AT 02/1812Z IS BELIEVED TO HAVE BEEN CAUSED BY ENHANCED PLAGE IN REGION 215. OCCASIONAL SUBFLARES HAVE OCCURRED IN REGION 215 DURING THE PAST 24 HOURS. REGION 209 (S16E14) IS DECAYING SLOWLY BUT STILL CONTAINS A WELL-DEVELOPED D-TYPE SPOT GROUP AND ASSOCIATED ENHANCED PLAGE. REGIONS 211 (S13W39) AND 212 (N14E44) HAVE DEVELOPED SLOWLY. REGION 212 CONTAINS STRONG MAGNETIC FIELD GRADIENTS IN THE LEADER. OTHER REGIONS ARE RELATIVELY STABLE OR DECLINING.

IB. OCCASIONAL MINOR FLARES ARE LIKELY IN REGIONS 215, 209, 211, AND 212. REGION 215 PROBABLY WILL CONTINUE TO GROW AND IS EXPECTED TO BE THE MOST DYNAMIC REGION. REGION 209 MAY PRODUCE AT LEAST ONE ENERGETIC EVENT DURING ITS DECLINE. ALL SOLAR PARAMETERS PROBABLY WILL CONTINUE TO RISE DURING THE NEXT 72 HOURS AS PART OF A GENERAL UPSWING IN SOLAR ACTIVITY.

II. QUIET TO UNSETTLED CONDITIONS ARE ANTICIPATED DURING THE FORECAST PERIOD. A WEAK DISTURBANCE ASSOCIATED WITH THE PASSAGE OF AN INTERPLANETARY SECTOR BOUNDARY MAY OCCUR DURING THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 03-05 SEP

CLASS M 75/80/85

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 SEP 130

PREDICTED 03-05 SEP 122/124/124

90-DAY MEAN 02 SEP 88

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 SEP 04

ESTIMATED 02 SEP 04

PREDICTED 03-05 SEP 10/10/08

SOLTERWARN

SPAN

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