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HOUS 2 BOU 050200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY

ISSUED AT 050200Z SEPT 1973

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT 04/1520Z

LOCATIONS VALID AT 05 SEPT 0000Z

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0203 N15W81 261 0100 H 00 01 ALPHA

0209 S14W13 193 0240 D 07 39 BETA

0210 N22W21 201 0290 D 07 25 BETA

0211 S13W67 247 0090 D 08 07 BETA

0212 N14E17 163 0300 C 09 24 BETA-GAMMA

0213 N06W73 253 0010 B 04 07 BETA

0215 S17E18 162 0160 E 10 31 BETA

0219 S12E46 134 0080 D 08 17 BETA

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 050000Z.

NMBR LOCATION LO

0207 N15W49 229

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS:

RGN	IMP	BEGIN	MAX	END	CLASS
212	IN	04/1500Z	1507Z	A1522Z	UNKNOWN
209	IF	B04/1544Z	1549Z	A1630Z	C2
212	IN	04/1627Z	1636Z	1655Z	C6
212	SB	04/0944Z	0948Z	1020Z	M1

III. AREAS OF SPECIAL INTEREST:

RGN 212 CONTAINS A STRONG LEADER SPOT NEARLY SURROUNDED BY
MAGNETIC FIELDS OF TRAILER POLARITY. A DELTA CONFIGURATION IS
LOCATED AT THE NORTHEAST EDGE OF THIS MAIN LEADER SPOT.

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HFUS 1 BOU 050600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 248A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 05 SEPTEMBER 1973

IA. SOLAR ACTIVITY HAS SLOWED NOTICEABLY DURING THE LAST 12 HOURS.

SUBFLARES CONTINUE, HOWEVER, FROM REGIONS 212(N14E13) AND 209

(S14W17). THE FORMER STILL CONTAINS A DELTA CONFIGURATION, BUT

FILAMENT ACTIVATION INDICATES THAT THE REGION IS RECONFIGURING.

WHITE LIGHT GROWTH IS APPARENT IN REGION 219(S12E42).

IB. CLASS M FLARES ARE POSSIBLE IN REGION 212. CLASS C FLARES MAY BE
OBSERVED AT RATES UP TO ONE PER HOUR.

II. THE GEOMAGNETIC FIELD HAS BECOME SLIGHTLY UNSETTLED WITH THE
PASSAGE OF AN INTERPLANETARY SECTOR BOUNDARY ACROSS THE FACE OF
THE MAGNETOPAUSE AT 04/1700Z. SLIGHTLY UNSETTLED CONDITIONS WILL
CONTINUE.

III. EVENT PROBABILITIES 05 SEPT - 07 SEPT

CLASS M 75/75/75

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7CM FLUX

OBSERVED 04 SEPT 136

PREDICTED 05-07 SEPT 136/134/132

90-DAY MEAN 04 SEPT 89

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 03 SEPT 05

ESTIMATED 04 SEPT 10

PREDICTED 05-07 SEPT 10/10/08

SOLTERWARN

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HFUS 1 BOU 051300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 248B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL
ACTIVITY ISSUED 1300Z 05 SEPT 1973

IA. SOLAR ACTIVITY HAS CONTINUED TO BE RATHER LOW, WITH ONLY
CLASS C FLARES REPORTED. ALL THE FLARE ACTIVITY CONTINUES TO
ORIGINATE IN REGIONS 209 (S14W18) AND 212 (N14E12).

IB. FREQUENT CLASS C FLARES ARE EXPECTED, WITH A CHANCE OF
CLASS M FLARES, MOST LIKELY IN REGION 212.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND IS EXPECTED
TO CONTINUE TO BE UNSETTLED THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 05-07 SEPT

CLASS M 75/75/75

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7CM FLUX

OBSERVED 04 SEPT 136

PREDICTED 05-07 SEPT 136/135/135

90-DAY MEAN 04 SEPT 89

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 03 SEPT 05

ESTIMATED 04 SEPT 10

PREDICTED 05-07 SEPT 08/10/12

SOLTERWARN

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HFUS BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 248

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 05 SEPTEMBER 1973.

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE LAST 24 HOURS WITH
FREQUENT SUBFLARE ACTIVITY FROM BOTH REGIONS 209 (S15W24) AND
212 (N14E04). A LARGE SUBNORMAL FLARE FROM REGION 212 AT 05/1833Z
WAS ACCOMPANIED BY A LARGE DARK SURGE EXTENDING AN ESTIMATED
.35 RADII. MODERATE CM WAVELENGTH BURSTS, STRONG TYPE II AND
TYPE III DEKAMETRIC WAVELENGTH BURSTS, AND SHORT WAVE FADES
AT 12 AND 18 MHZ WERE ALSO OBSERVED WITH THIS FLARE. BOTH REGIONS
APPEAR TO RETAIN STRONG MAGNETIC GRADIENTS WITH A WEAK DELTA AND
SCATTERED ISOLATED POLES OBSERVED IN REGION 212. HOWEVER, NEITHER
REGION HAS SHOWN ANY SIGNIFICANT GROWTH. REGION 219 (S13E33)
CONTAINS A STRONG ARCH FILAMENT SYSTEM SUGGESTING POSSIBLE FURTHER
GROWTH. A SUBFAINT FLARE WAS OBSERVED FROM THIS REGION AT 05/2109Z.

IB. SOLAR ACTIVITY SHOULD CONTINUE MODERATE WITH A GOOD CHANCE OF
SMALL CLASS M EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE DAY WITH
ACTIVE CONDITIONS DURING LOCAL NIGHT HOURS. UNSETTLED CONDITIONS
ARE EXPECTED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 06 SEP - 08 SEP.

CLASS M 75/75/75

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 05 SEP 136

PREDICTED 06 SEP - 08 SEP 135/135/133

90-DAY MEAN 05 SEP 89

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 04 SEP 11

ESTIMATED 05 SEP 15

PREDICTED 06 SEP - 08 SEP 12/12/10

SOLTERWARN

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