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KBOU

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	1F	B04/1544Z	1549Z	A1630Z	C2
212	1N	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 UNSETLED AND IS EXPECTED
TO CONTINUE TO BE UNSETLED 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 ACCCOMPANIED 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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