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HOUS 2 BOU 040200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
040200 SEP 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT
03/1500. LOCATIONS VALID AT 04 SEP 0000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0203	N15W66	259	0110	H	02	01	ALPHA
0209	S15W01	194	0270	D	08	40	BETA
0210	N22W09	202	0200	D	06	22	BETA
0211	S13W55	248	0060	C	08	12	BETA
0212	N14E28	165	0290	C	08	08	BETA-GAMMA
0213	N06W60	253	0010	B	05	07	BETA
0215	S17E31	162	0140	D	09	29	BETA-GAMMA
0218	S09W25	218	0010	A	01	01	ALPHA
0219	S13E58	135	0010	B	05	04	BETA

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 040000Z.
NONE.

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RG	IMP	BEGIN	MAX	END	CLASS
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210	IN	03/1614Z	1616Z	1646Z	-
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III. AREAS OF SPECIAL INTEREST-

REGIONS 210 AND 212.

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HFUS 1 BOU 040600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 247A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0600Z 04 SEPTEMBER 1973

IA. REGIONS 210 (N22W12) AND 212 (N14E25) HAVE PRODUCED MOST OF THE ACTIVITY DURING THE PAST 12 HOURS. BOTH REGIONS APPEAR DYNAMIC AND CAPABLE OF FLARE PRODUCTION.

IB. NO MAJOR ACTIVITY IS EXPECTED DURING THE NEXT SEVEN HOURS. CLASS C FLARES ARE EXPECTED AND AN OCCASIONAL CLASS M FLARE IS PROBABLE.

II. THE GEOMAGNETIC FIELD HAS BEEN IN QUIET CONDITION DURING THE PAST 24 HOURS AND IS EXPECTED TO REMAIN QUIET DURING THE NEXT 24 HOURS.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

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HFUS 1 BOU 041300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 247B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL

ACTIVITY ISSUED 1300Z 04 SEPT 1973

IA. SOLAR ACTIVITY HAS INCREASED TO MODERATE LEVELS. FREQUENT SUBFLARES HAVE BEEN OCCURRING, PRIMARILY IN REGIONS 212 (N14E22), 215 (S17E25), 210 (N22W15), AND 219 (S13E52). REGION 212 APPEARS TO HAVE THE GREATEST FLARE POTENTIAL (HAVING PRODUCED 3 CLASS C XRAY FLARES AND AN M1 (AT 0945Z) FLARE TODAY), AND IT SHOWS SIGNS OF FURTHER GROWTH AND INTENSIFICATION.

IB. NUMEROUS SUBFLARES WILL CONTINUE TO OCCUR THROUGH THE DAY, WITH SEVERAL CLASS C EVENTS, AND 1 OR 2 CLASS M EVENTS LIKELY.

II. THE GEOMAGNETIC FIELD HAS BECOME UNSETTLED. NO MAJOR GEOMAGNETIC ACTIVITY IS ANTICIPATED, BUT THE FIELD MAY BE UNSETTLED AT VARIOUS TIMES THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 04-06 SEP

CLASS M 80/80/80

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 SEP 134

PREDICTED 04-06 SEP 136/136/134

90-DAY MEAN 03 SEP 088

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 02 SEP 06

ESTIMATED 03 SEP 04

PREDICTED 04-06 SEP 08/06/04

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HFUS BOU 042200

SDF NUMBER 247

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL
ACTIVITY ISSUED 2200Z 04 SEP 1973

IA. SOLAR ACTIVITY WAS MODERATE DURING THE PAST 24 HOURS.
REGION 212 (N14E18) PRODUCED AN IMPORTANCE ONE-BRILLIANT
CLASS M1 FLARE AT 04/0945Z AND AN IMPORTANCE TWO-BRILLIANT
CLASS C6 FLARE AT 04/1626Z. THE LATTER EVENT WAS ACCOMPANIED
BY WEAK IONOSPHERIC EFFECTS, A GROUP OF TYPE III DEKAMETRIC
BURSTS, AND A VERY SLIGHT RISE IN THE LEVELS OF CENTIMETRIC
NOISE. NO PARTICLES WERE DETECTED FOLLOWING THE 1626Z FLARE.
REGION 212 NOW CONTAINS MAGNETIC FIELDS OF FOLLOWER POLARITY
NEARLY SURROUNDING THE MAIN LEADER SPOT, AND A DELTA CON-
FIGURATION IS LOCATED AT THE NORTHEAST EDGE OF THIS SPOT.
THIS MAGNETIC CONFIGURATION IS UNSTABLE AND HAS BEEN ASSOCIATED
WITH ENERGETIC ACTIVITY IN OTHER REGIONS IN THE PAST. REGION
209 (S14W12) IS DECAYING GRADUALLY BUT STILL RETAINS A DYNAMIC
APPEARANCE. THIS REGION PRODUCED A ONE-FAINT FLARE AT 04/1544Z.
REGION 219 (S12E47) HAS DEVELOPED SLIGHTLY AND CONTAINS ENHANCED
PLAGE AND RELATIVELY STRONG MAGNETIC FIELD GRADIENTS IN THE
TRAILING SECTION. REGION 215 (S17E19) HAS PRODUCED THREE SUB-
FLARES DURING THE PAST 24 HOURS, BUT THIS REGION HAS STABILIZED
CONSIDERABLY DURING THE PAST 48 HOURS. OTHER REGIONS ARE
RELATIVELY STABLE AT PRESENT.

IB. REGIONS 212, 209, AND 215 PROBABLY WILL PRODUCE OCCASIONAL
SUBFLARES DURING THE NEXT 24 HOURS. IF DEVELOPMENT CONTINUES
IN REGION 212, A MAJOR FLARE WILL BECOME MORE LIKELY DUE TO THE
UNUSUAL MAGNETIC CONFIGURATION AROUND THE MAIN LEADER SPOT.
SOLAR ACTIVITY PROBABLY WILL REMAIN MODERATE FOR AT LEAST
THE NEXT THREE DAYS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST
24 HOURS. GENERALLY QUIET CONDITIONS ARE EXPECTED DURING THE
FORECAST PERIOD.

III. EVENT PROBABILITIES 05-07 SEP

CLASS M 80/80/80

CLASS X 08/10/08

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7CM FLUX

OBSERVED 04 SEP 136

PREDICTED 05-07 SEP 134/134/132

90-DAY MEAN 04 SEP 89

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 03 SEP 05

ESTIMATED 04 SEP 12

PREDICTED 05-07 SEP 06/06/06

SOLTERWARN

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