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HOUS 2 BOU 040200

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

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT  
03/1705. LOCATIONS VALID AT 04 DEC 0000Z.

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
0287	S09W85	158	0010	A	01	01	01	ALPHA
0292	S14W83	156	0030	C	04	09	09	BETA

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 04 DEC 0000Z.

NMBR	LOCATION	LO
0294	N12E31	042

II. NONE

III. NONE

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HFUS 1 BOU 040600  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 338A  
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 04 DECEMBER 1973  
IA. SMALL SURGES HAVE BEEN OBSERVED WHERE THE COMPLEX OF REGIONS  
287/292 (CENTER AT S11W83) ARE ROTATING OFF THE DISK. THE REST OF  
THE DISK IS QUIET. HEDGEROW PROMINENCE N33-N46WL HAS REMAINED  
STABLE.  
IB. NO MAJOR ACTIVITY IS EXPECTED DURING THE NEXT SEVEN HOURS.  
II. THE GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED BUT IS NOT EXPECTED  
TO REACH STORM INTENSITY.  
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 338B  
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 04 DECEMBER 1973

IA. THREE SIGNIFICANT EVENTS HAVE BEEN REPORTED SINCE 0600Z THE FIRST OF THESE WAS A CLASS C4 X-RAY BURST WITHOUT OPTICAL COUNTERPART AT 04/0608Z. THE SECOND EVENT OCCURRED AT 0853Z AND CONSISTED OF AN IMPORTANCE ONE-NORMAL CLASS M1 (VELA) FLARE FROM REGIONS 287 AND 292 AT S11W90. AN IMPORTANCE THREE SURGE AND SPRAY EXTENDING TO 0.2 SOLAR RADIUS ACCOMPANIED THE FLARE. A LARGE PIECE OF MATTER WAS OBSERVED ABOVE THE MAIN BODY OF THE SURGE AND MOVED OUT RAPIDLY. SMALL CENTIMETRIC BURSTS WERE OBSERVED IN ASSOCIATION WITH THIS EVENT, BUT NO DEKAMETRIC DATA HAVE BEEN RECEIVED YET. AT 1208Z A CLASS M-1 (VELA) X-RAY EVENT WITHOUT AN OPTICAL COUNTERPART OCCURRED. REGIONS 287 AND 292 PRESENTLY ARE PASSING BEHIND THE WEST LIMB. ALL DISK REGIONS ARE QUIET AND UNIMPRESSIVE.

IB. THE COMPLEX OF REGIONS 287 AND 292 RETAINS ITS POTENTIAL FOR PRODUCING ENERGETIC ACTIVITY AS IT IS ROTATED BEHIND THE WEST LIMB. NO ENERGETIC ACTIVITY IS LIKELY ELSEWHERE.

II. THE GEOMAGNETIC FIELD BECAME ACTIVE AT ABOUT 04/0648Z. UNSETLED TO ACTIVE CONDITIONS ARE LIKELY TO CONTINUE THROUGH THE REMAINDER OF THE 3-DAY FORECAST PERIOD.

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 338B

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III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

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KBOU

HFUS BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 338

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

IA. SOLAR ACTIVITY HAS AGAIN INCREASED TO A MODERATE LEVEL WITH ALL REPORTED ACTIVITY ON THE WEST LIMB BETWEEN S10 AND S15 ASSOCIATED WITH DEPARTING REGIONS 287 AND 292. AN ACTIVE SURGE REGION HAS BEEN PRESENT MOST OF THE DAY WITH THE MOST SIGNIFICANT ACTIVITY AS FOLLOWS-APPROXIMATELY 04/0900Z, A ONE NORMAL FLARE FROM REGION 287 MEASURED BY VELA AS X-RAY CLASS M1 AND ACCOMPANIED BY AN IMPORTANCE 3 BRIGHT SURGE AND SPRAY, APPROXIMATELY 04/1200Z, A ONE BRIGHT FLARE FROM REGION 292 MEASURED BY VELA AS X-RAY CLASS M1 AND ACCOMPANIED BY A SPRAY, BRIGHT SURGE, AND CORONAL RAIN, ALL IMPORTANCE 3, BETWEEN 04/1526Z AND 04/1728Z, ANOTHER IMPORTANCE 3 BRIGHT SURGE, AND AT 1540Z, A SUBNORMAL FLARE OF UNKNOWN X-RAY INTENSITY FROM REGION 292. THE REST OF THE DISK HAS BEEN QUIET AND NO SPOTS ARE VISIBLE, ALTHOUGH TWO SMALL, STABLE PLAGE REGIONS EXIST IN THE NE.

IB. WITH THE DEPARTURE OF REGIONS 287 AND 292, SOLAR ACTIVITY SHOULD DROP TO VERY LOW LEVELS. AN ENERGETIC LIMB EVENT IS STILL POSSIBLE VERY EARLY IN THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BECOME ACTIVE IN RESPONSE TO A RECURRENT DISTURBANCE. THIS DISTURBANCE SHOULD DIMINISH THROUGH THE FORECAST PERIOD WITH QUIET CONDITIONS RETURNING BY 07 DEC.

III. EVENT PROBABILITIES 05 DEC - 07 DEC.

CLASS M 25/10/05

CLASS X 03/01/01

PROTON 05/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 04 DEC 81

PREDICTED 05 DEC - 07 DEC 78/76/76

90-DAY MEAN 04 DEC 89

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 03 DEC 03

ESTIMATED AFR/AP 04 DEC 20/24

PREDICTED AFR/AP 05 DEC - 07 DEC 15/17 - 10/11 - 06/07

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