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HOUS 2 BOU 190200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT  
190200Z DEC 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM CANARY IS. TAKEN AT  
190845. LOCATIONS VALID AT 19 DEC 0000Z.

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
0296	N01W69	304	0020	H	00	01	ALPHA	
0299	N09E36	199	0040	H	00	01	ALPHA	
0300	S16E49	186	0140	D	09	11	BETA	
0303	S14E26	209	0010	B	00	01	ALPHA	

MAGNETIC CLASSIFICATIONS AND DATA FOR REGION 0303 FROM MT WILSON  
IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 19 DEC 0000Z.

NMBR LOCATION LO

0302 S10E84 151

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

NONE

III. AREAS OF SPECIAL INTEREST-

LARGE PROMINENCE ON NE LIMB.

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HFUS 1 BOU 190600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 3253A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 19 DEC 1973

IA. SOLAR ACTIVITY CONTINUES LOW WITH ONLY ONE SUBFLARE OBSERVED  
DURING THE LAST 8 HOURS. THIS FLARE OCCURRED IN REGION 300 (S16E47)  
WHICH HAS BEEN SHOWING SPOT GROWTH IN THE LEADER PORTION. AN  
ACTIVE DARK FILAMENT RUNS E-W THROUGH THE CENTRAL PORTION OF THE  
REGION. THE OTHER REGIONS ON THE DISK REMAIN RELATIVELY SIMPLE.  
THE LARGE PROMINENCE ON THE NE LIMB HAS SHOWN LITTLE ACTIVITY.

IB. REGION 300 REMAINS A LIKELY SOURCE OF ONE OR TWO SMALL CLASS M  
EVENTS DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD REMAINS VERY QUIET, AND QUIET  
CONDITIONS ARE EXPECTED FOR THE NEXT TWO DAYS, BECOMING UNSETLED  
BY THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES NO CHANGE

IV. OTTAWA 10.7 CM FLUX NO CHANGE

V. GEOMAGNETIC A INDICES NO CHANGE

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THE LARGE PROMINENCE ON THE NE LIMB HAS SHOWN LITTLE ACTIVITY.

IB. REGION 300 REMAINS A LIKELY SOURCE OF ONE OR TWO SMALL CLASS M  
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CONDITIONS ARE EXPECTED FOR THE NEXT TWO DAYS, BECOMING UNSETLED  
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III. EVENT PROBABILITIES NO CHANGE

IV. OTIAWA 10.7 CM FLUX NO CHANGE

V. GEOMAGNETIC A INDICES NO CHANGE

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HFUS BOU 191300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 353B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 19 DEC 1973

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE WITH 4 FLARES REPORTED  
IN REGION 300 SINCE 2200Z. LARGEST WAS A IN NEAR 1040Z WITH  
X-RAY CLASS PRESENTLY UNKNOWN. THE OTHER FLARES WERE CLASS C EVENTS.  
THE LARGE PROMINENCE ON THE NE LIMB BECAME ACTIVE NEAR 0400Z  
AND BEGAN RISING IN AN ARCH FORM NEAR 0500Z. BY 0648Z THIS PROMINENCE  
EXTENDED 0.6R. ONLY SMALL SEGMENTS NOW REMAIN BETWEEN N02-15.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH A CLASS  
M EVENT PROBABLE FROM REGION 300.

II. THE GEOMAGNETIC FIELD HAS BEEN VERY QUIET.

THE FIELD IS EXPECTED TO REMAIN QUIET, BECOMING UNSETLED TO ACTIVE  
AT THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 19 - 21 DEC

CLASS M 50 60 60

CLASS X 05/05/07

PROTON 01/01/03

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 DEC 88

PREDICTED 19 - 21 DEC 90/91/93

90-DAY MEAN 18 DEC 87

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 DEC 04

ESTIMATED AFR/AP 18 DEC 00/01

PREDICTED AFR/AP 19 - 21 DEC 05/06 - 05/06 - 10/11

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ZCZC 783 PD BOULDER COLO  
TWX 9109403441 LAST UNIV COLO

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDDER COLO

SDF

HXUS BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 353

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 19 DEC 1973

IA. RGN 300 (S19E32) HAS BEEN RELATIVELY QUIET AFTER PRODUCING  
SEVERAL SUBFLARES THE FIRST HALF OF THIS ZULU DAY. THE SPOT  
GROUP WITH RGN 300 IS NOW A TYPE "C", BUT THE MAGNETIC CLASSIFICATION  
INFERRED BY BOULDER IS BETA GAMMA. RGN 304 (S16E05) WAS BORN ON  
THE DISK EARLY TODAY, IS A SMALL "A" TYPE SPOT AND APPEARS TO BE  
GROWING SLOWLY. ALL OTHER DISK RGNS ARE SIMPLE IN STRUCTURE AND  
SHOW NO ACTIVITY. THE LARGE PROMINENCE ON THE NE LIMB COMPLETELY  
ERUPTED FROM NE13 TO NE43 BEGINNING ABOUT 0400 U.T. THIS MORNING.  
IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A MODERATELY LOW LEVEL  
FOR THE NEXT 3 DAYS.

II. THE GEOMAGNETIC FIELD BECAME UNSETLED TO SLIGHTLY ACTIVE ABOUT  
1500 U.T. AND HAS CONTINUED TO REFLECT THESE CONDITIONS  
THROUGHOUT THE DAY. GENERALLY UNSETLED CONDITIONS ARE EXPECTED FOR  
THE NEXT 18 TO 24 HOURS WITH ACTIVE CONDITIONS EXPECTED LATE ON  
20 DEC OR EARLY ON THE 21ST. THE FIELD SHOULD THEN CONTINUE ACTIVE  
THROUGH THE 22ND OF DECEMBER.

III. EVENT PROBABILITIES 20-22 DECEMBER

CLASS M 60/60/60

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 DEC 91

PREDICTED 20-22 DEC 93/94/95

90-DAY MEAN 19 DEC 87

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 DEC 0

ESTIMATED AFR/AP 19 DEC 09/10

PREDICTED AFR/AP 20-22 DEC 07/08 - 16/18 - 25/33

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