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HOUS 2 BOU 180200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT  
18/0200Z DECEMBER 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM MOUNT WILSON AND  
BOULDER TAKEN AT 17/1630 AND 1640Z. LOCATIONS VALID AT 18 DEC  
0000Z.

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
0296	N01W57	305	0005	A	00	01		ALPHA
0299	N08E50	198	0030	H	02	01		ALPHA
0300	S19E62	186	0070	C	08	07		BETA
0301	S09E59	189	0005	A	00	01		ALPHA

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 18 DEC 0000Z.

NMBR LOCATION LO

0297 S14W01 249

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN	IMP	BEGIN	MAX	END	CLASS
300	SN	17/0032Z	0033Z	0102Z	M-1

III. AREAS OF SPECIAL INTEREST-

OLD REGIONS 287 AND K292 EXPECTED TO RETURN TO EAST LIMB NEAR  
S13 ON 18 DECEMBER. LARGE PROMINENCE IN THE NORTH EAST.

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HFUS 1 BOU 180600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 352A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 18 DECEMBER 1973

IA. DURING THE PAST 12 HOURS SOLAR ACTIVITY HAS BEEN VERY LOW.  
REGION 300 (S19E61) HAS BEEN VERY QUIET. NO FLARES HAVE BEEN

OBSERVED. THE LARGE PROMINENCE ON THE NE LIMB APPEARS STABLE.

IB. NO MAJOR ACTIVITY IS EXPECTED DURING THE NEXT SEVEN HOURS.  
REGION 300 IS CAPABLE OF PRODUCING A FEW MINOR CLASS M FLARES.

THE OTHER DISK REGIONS APPEAR STABLE.

II. THE GEOMAGNETIC FIELD IS QUIET 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 BOU 181300  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 352B  
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 18 DEC 1973

IA. SOLAR ACTIVITY HAS BEEN VERY LOW WITH NO CONFIRMED FLARE  
REPORTED SINCE 17/1802Z. REGION 300 (S19E55) HAS RE-STRUCTURED  
WITH NO APPARENT GROWTH. REGION 302 (S10E83) HAS HAD PLAGE  
ENHANCEMENT DURING THE PAST 6 HOURS. THE LARGE FILAMENT FROM  
N02 TO N48 HAS BEEN SLIGHTLY ACTIVE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW TO MODERATE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. IT IS EXPECTED TO  
REMAIN QUIET TO SLIGHTLY UNSETLED.

III. EVENT PROBABILITIES 18 - 20 DEC

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX  
OBSERVED 17 DEC 84  
PREDICTED 18 - 20 DEC 87/89/92  
90-DAY MEAN 17 DEC 87

V. GEOMAGNETIC A INDICES  
OBSERVED FREDERICKSBURG 16 DEC 02  
ESTIMATED AFR/AP 17 DEC 05/06  
PREDICTED AFR/AP 18 - 20 DEC 07/08 - 05/06 - 05/06  
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ESTIMATED AFR/AP 17 DEC 05/06

PREDICTED AFR/AP 18 - 20 DEC 07/08 - 05/06 - 05/06

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HXUS BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 352

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 18 DEC 1973

IA. RGN 300 (S16E50) HAS EXHIBITED VARYING DEGREES OF DYNAMIC TENDENCIES DURING THE PAST 24 HOURS BUT THE TREND HAS BEEN TOWARD A DECLINE IN COMPLEXITY, ALTHOUGH STILL CLASSED AS A BETA MAGNETICALLY. RGN 300 PRODUCED SEVERAL SUBFLARES BETWEEN 1200 AND 2000 UT BUT THERE ARE NO INDICATIONS THAT THEY WERE ENERGETIC. A SMALL, SIMPLE NEW RGN IS LOCATED AT S14E30 AND IS DESIGNATED AS NUMBER 303. THE OTHER DISK FEATURES ARE LITTLE CHANGED.

IB. SOLAR ACTIVITY IS EXPECTED TO BE AT A LOW TO MODERATELY LOW LEVEL DURING THIS FORECAST PERIOD AS RGN 300 CONTINUES TO UNDERGO TRANSFORMATION.

II. THE GEOMAGNETIC FIELD IS QUIET AND SHOULD REMAIN SO UNTIL 21 DEC WHEN UNSETTLED TO SLIGHTLY DISTURBED CONDITIONS SHOULD BEGIN.

III. EVENT PROBABILITIES 19-21 DEC

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 01/01/01

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 01/01

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

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