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HOUS 2 BOU 270200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
270200Z DEC 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT
261650 U.T. LOCATIONS VALID AT 27 DEC 0000Z.

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
0299	N07W73	203	0010	A	01	01	BETA	
0300	S18W64	194	0370	C	10	02	ALPHA	
0305	S15W88	211	0030	B	08	03	BETA	

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 27 DEC 0000Z.

NMBR	LOCATION	LO
0307	S09W57	187

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN	IMP	BEGIN	MAX	END	CLASS
305	1F	B0722Z	B0722Z	0735	--

III. AREAS OF SPECIAL INTEREST-

NONE

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NMBR	LOCATION	LO
0301	S09W57	187

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN	IMP	BEG N	MAX	END	CLASS
305	IF	B0722Z	B0722Z	0735	--

III. AREAS OF SPECIAL INTEREST-

NONE

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HFUS 1 BOU 270600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 361A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 27 DEC 1973

IA. SOLAR ACTIVITY HAS BEEN VERY LOW DURING THE PAST 8 HOURS.
REGIONS CURRENTLY VISIBLE ON THE DISK HAVE BEEN QUIET. EXCEPT FOR
MINOR SURGING FROM REGION 305(SW15) THE LIMBS ARE QUIET.

IB. NO MAJOR ACTIVITY IS EXPECTED DURING THE NEXT 7 HOURS. REGION
305 MAY CONTINUE TO PRODUCE MINOR ACTIVITY DURING WEST LIMB
TRANSIT.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO REMAIN
QUIET THROUGH THE FORECAST PERIOD.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

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HFUS 1 BOU 270600

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QUIET THROUGH THE FORECAST PERIOD.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

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HFUS 1 BOU 271300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 361B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 27 DECEMBER 1973

IA. SOLAR ACTIVITY REMAINS VERY LOW. REGION 305 HAS HAD NEARLY CONTINUOUS MINOR SURGES AS IT CROSSES WEST LIMB AT S15. REGION 300 (S18W71) HAS PRODUCED TWO SURGES EMINATING FROM THE LEADER AND EXTENDING BEYOND THE LIMB. THE SECOND OF THESE SURGES NEAR 1055Z HAD A SMALL CENTIMETRIC BURST AND PRELIMINARILY CLASSED AS A C-4 X-RAY EVENT. THIS ACTIVITY WOULD SUGGEST THE FORMATION OF ANOMOLOUS POLARITY AROUND THE LARGE LEADER OF REGION 300.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. LARGE SURGES ARE EXPECTED TO CONTINUE FROM REGION 300 PRODUCING CENTIMETRIC AND DEKAMETRIC BURSTS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO REMAIN SO DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 27 DEC - 29 DEC

CLASS M 20/20/10

CLASS X 02/02/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 DEC 96

PREDICTED 27 DEC - 29 DEC 94/92/90

90-DAY MEAN 26 DEC 86

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 DEC 02

ESTIMATED AFR/AP 26 DEC 05/06

PREDICTED AFR/AP 27 DEC - 29 DEC 05/06- 05/06 - 05/06

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 361B

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PREDICTED AFR/AP 27 DEC - 29 DEC 05/06- 05/06 - 05/06

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HFUS BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 361

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 27 DEC 1973

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. DURING WEST LIMB TRANSIT REGION 305 (S15W99) HAS PRODUCED CONTINUOUS SURGES, THE LARGEST EXTENDING TO .12 SOLAR RADII AT 2020Z. REGION 300 (S18W78) HAS ALSO PRODUCED SURGES TODAY, ONE OF WHICH AT 1050Z WAS ACCCOMPANIED BY A CLASS C3 X-RAY AND MINOR CENTIMETRIC RADIO BURSTS. A NEW REGION 307 (S15E71) HAS ROTATED OVER EAST LIMB AS A SMALL SPOTLESS PLAGE WITH NO INDICATION OF ACTIVITY. SOME REGENERATION HAS OCCURRED IN REGION 301 (S09W72) WHERE A SMALL "B TYPE" SPOT GROUP AND AN ARCH FILAMENT SYSTEM WERE REPORTED AT 1900Z. SEVERAL TYPE III DEKAMETRIC BURSTS HAVE BEEN OBSERVED IN THE PAST 24 HOURS IN ASSOCIATION WITH SURGING IN THE SOUTHWEST.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL, WITH A POSSIBILITY OF LARGE SURGES FROM RGN 300 ON THE SOUTHWEST LIMB.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO MILDLY UNSETTLED TODAY. THE FORECAST FOR THE NEXT THREE DAYS HAS BEEN REVISED UPWARD TO STRONGLY UNSETTLED CONDITIONS. THIS IS BASED ON THE FAVORABLE GEOMETRY OF THE SECTOR BOUNDARY (INFERRED IN H-ALPHA) WHICH CONTAINED THE LARGE PROMINENCE WHICH ERUPTED ON THE EAST LIMB ON 19 DECEMBER.

III. EVENT PROBABILITIES 28 DEC - 30 DEC

CLASS M 25/15/10

CLASS X 02/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 DEC 92

PREDICTED 28 DEC-30 DEC 88/84/80

90-DAY MEAN 27 DEC 86

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 DEC 04

ESTIMATED AFR/AP 27 DEC 06/07

PREDICTED AFR/AP 28 DEC-30 DEC 14/16 - 10/11 - 15/17

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