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HOUS 2 BOU 200200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT  
200200 DEC 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT  
191659. LOCATIONS VALID AT 20 DEC 0000Z.

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
0299	N07E21	201	0025	H	02	01	01	ALPHA
0300	S19E32	190	0080	C	12	13	01	BETA GAMMA
0303	S14E09	213	0010	A	01	01	01	ALPHA
0304	S16E05	217	0010	A	01	01	01	ALPHA

MAGNETIC CLASSIFICATION INFERRED AT BOULDER

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 20 DEC 0000Z.

NMBR	LOCATION	LO
0297	S14W23	245
0301	S09E36	186
0302	S12E67	155

II. IMPORTANCE ONE OR GREATER FLARES AND ENERGETIC EVENTS-

RGN	IMP	BEGIN	MAX	END	CLASS
0300	IN	19/1040Z	1045Z	1110Z	--

III. AREAS OF SPECIAL INTEREST-

NONE

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HFUS 1 BOU 200600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 354A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 20 DEC 1973

IA. SOLAR ACTIVITY CONTINUES LOW. NO FLARES HAVE BEEN OBSERVED DURING THE LAST 24 HOURS, BUT REGION 300 (S19E30) HAS SHOWN FREQUENT BRIGHTENINGS AND RAPIDLY VARYING ABSORPTION FEATURES IN THE CENTER OF THE REGION. THE REGION HAS GROWN IN WHITE LIGHT AND APPEARS TO HAVE DEVELOPED A BETA GAMMA CONFIGURATION. OTHER REGIONS ON THE DISK APPEAR RELATIVELY STABLE.

IB. REGION 300 REMAINS A LIKELY SOURCE OF SMALL CLASS M FLARES WITH ONE OR TWO ENERGETIC EVENTS LIKELY DURING THE NEXT 3 DAYS.

II. THE GEOMAGNETIC FIELD BECAME ACTIVE APPROXIMATELY 20/0400Z. APPARENTLY THE RECURRENT GEOMAGNETIC DISTURBANCE ORIGINALLY EXPECTED ON 22 DEC HAS BEGUN EARLY, AND ACTIVE TO MINOR STORM CONDITIONS NOW APPEAR LIKELY THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES NO CHANGE

IV. OTTAWA 10.7 CM FLUX NO CHANGE

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 DEC 00

ESTIMATED AFR/AP 19 DEC 09/10

PREDICTED AFR/AP 20 DEC-22 DEC 25/33 - 30/42 - 25/33

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HFUS 1 BOU 200600  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
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DURING THE LAST 24 HOURS, BUT REGION 300 (S19E30) HAS SHOWN  
FREQUENT BRIGHTENINGS AND RAPIDLY VARYING ABSORPTION FEATURES IN  
THE CENTER OF THE REGION. THE REGION HAS GROWN IN WHITE LIGHT AND  
APPEARS TO HAVE DEVELOPED A BETA GAMMA CONFIGURATION. OTHER REGIONS  
ON THE DISK APPEAR RELATIVELY STABLE.  
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APPARENTLY THE RECURRENT GEOMAGNETIC DISTURBANCE ORIGINALLY  
EXPECTED ON 22 DEC HAS BEGUN EARLY, AND ACTIVE TO MINOR STORM  
CONDITIONS NOW APPEAR LIKELY THROUGH THE FORECAST PERIOD.  
III. EVENT PROBABILITIES NO CHANGE  
IV. OTTAWA 10.7 CM FLUX NO CHANGE  
V. GEOMAGNETIC A INDICES  
OBSERVED FREDERICKSBURG 18 DEC 00  
ESTIMATED AFR/AP 19 DEC 09/10  
PREDICTED AFR/AP 20 DEC-22 DEC 25/33 - 30/42 - 25/33  
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HFUS 1 BOU 201300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 354B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 20 DECEMBER 1973

IA. SOLAR ACTIVITY HAS BEEN LOW WITH SIX SUBFLARES REPORTED FROM  
REGION 300 (S17E27) IN THE PAST 24 HOURS. REGION 300 HAS DEVELOPED  
RAPIDLY IN WHITE LIGHT AND IS NOW A TYPE "E" SPOT GROUP WITH A  
PROBABLE BETA GAMMA MAGNETIC CONFIGURATION.

IB. SUBFLARING IN REGION 300 HAS BEEN ASSOCIATED WITH THE EMERGENCE  
OF NEW SPOTS. THE REGION NOW POSSESSES ENERGETIC FLARE POTENTIAL  
AND COULD PRODUCE M-CLASS X-RAY FLARES AT ANY TIME.

II. A MINOR MAGNETIC STORM BEGAN AT 20/0350Z AND IS EXPECTED TO  
CONTINUE THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 20 DEC - 22 DEC

CLASS M 75/75/75

CLASS X 10/10/10

PROTON 03/03/03

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 DEC 91

PREDICTED 20 DEC - 22 DEC 94/96/97

SØ-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 DEC - 22 DEC 25/33 - 20/24 - 15/17

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 354

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 20 DECEMBER 1973.

IA. SOLAR ACTIVITY HAS BEEN VERY LOW TODAY DESPITE CONSIDERABLE SPOT GROWTH IN REGION 300 (S18E18) TO AN "E TYPE" GROUP WITH AN INTRICATE BETA-GAMMA-DELTA MAGNETIC CONFIGURATION. ONLY FOUR NON-ENERGETIC SUBLFARES, ALL IN RGN 300, HAVE BEEN REPORTED IN THE PAST 24 HOURS. RGN 303 (S14W06) HAS GROWN IN H-ALPHA AND WHITE LIGHT. RGN 304 (S16W03) HAS DECLINED AND IS NOW SPOTLESS.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO LOW. RGN 300 IS CAPABLE OF ENERGETIC FLARES AND APPEARS MORE POTENT THAN EVER DESPITE A RECENT DECLINE IN FLARE PRODUCTION. CLASS M X-RAY ACTIVITY IS LIKELY IN THIS REGION DURING THE NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE SINCE 0300Z TODAY. STRONGLY ACTIVE TO MINOR STORM CONDITIONS ARE ANTICIPATED DURING THE NEXT 24 HOURS FOLLOWED BY A GRADUAL TREND TO UNSETTLED CONDITIONS BY THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 21 DEC - 23 DEC.

CLASS M	60/60/60
CLASS X	10/10/10
PROTON	03/03/03
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED	20 DEC 93
PREDICTED	21 DEC - 23 DEC 96/98/98
90-DAY MEAN	20 DEC 87

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG	19 DEC 08
ESTIMATED AFR/AP	20 DEC 20/24
PREDICTED AFR/AP	21 DEC - 23 DEC 30/42 - 20/24 - 13/14
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HFUS BOU 202200

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