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HOUS 2 BOU 300200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT
300200Z OCT 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT
29/1615Z.

LOCATIONS VALID AT 30 OCT 0000Z.

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG TYPE
0264	S13W26	200	0360	D	07	20	DELTA
0265	N22W16	190	0010	A	02	02	ALPHA
0266	N12E08	166	0030	H	02	01	ALPHA
0267	N16E20	154	0055	H	04	08	ALPHA
0269	N03E60	114	0010	A	01	02	ALPHA
0270	N20E25	149	0010	A	00	01	ALPHA

MAGNETIC CLASSIFICATIONS FROM MT WILSON

IA. H-ALPHA PLACES WITHOUT SPOTS. LOCATIONS VALID AT 30 OCT 0000Z.

NMBR	LOCATION	LO
0262	N16W85	259
0268	S10W11	185

II. NONE

III. NONE

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HFUS -1 BOU 300600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 303A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 30 OCTOBER 1973

IA. SOLAR ACTIVITY HAS REMAINED AT A LOW LEVEL DURING THE PAST
8 HOURS. ALL REGIONS ARE STABLE AND QUIET.

IB. NO MAJOR SOLAR ACTIVITY IS EXPECTED DURING THE NEXT SEVEN HOURS.

II. THE GEOMAGNETIC STORM HAS DECREASED IN INTENSITY DURING THE
PAST 3 HOURS. THE DISTURBANCE WILL CONTINUE AT A MINOR LEVEL
DURING THE NEXT 24 HOURS.

III. EVENT PROBABILITIES NO CHANGE

IV. OTTAWA 10.7 CM FLUX NO CHANGE

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 28 OCTOBER 15

ESTIMATED 29 OCTOBER 52

PREDICTED 30 OCTOBER-01 NOVEMBER 30/20/12

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ESTIMATED 29 OCTOBER 52

PREDICTED 30 OCTOBER-01 NOVEMBER 30/20/12

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HFUS 1 BOU 301300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 303B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 30 OCTOBER 1973

IA. SOLAR ACTIVITY HAS BEEN VERY LOW WITH ONLY 4 SUBFLARES REPORTED
IN THE PRECEDING 24 HOURS. REGION 264 (S13W33) CONTINUES TO DECLINE
SLOWLY BUT REMAINS FAIRLY INTENSE AND MAGNETICALLY COMPLEX. TWO
NEW REGIONS HAVE APPEARED ON THE DISK; REGION 272 (N13E11) CONTAINS
A SMALL C-TYPE SPOT GROUP; REGION 271 (S20W21) CONTAINS A B-TYPE
SPOT GROUP. NEITHER GROUP IS PRESENTLY LARGE ENOUGH TO HAVE
ENERGETIC FLARE POTENTIAL.

IB. ACTIVITY IS EXPECTED TO BE LIMITED LARGELY TO OCCASIONAL
NON-ENERGETIC SUBFLARES. HOWEVER THE LARGER REGION COMPLEXES
ON THE DISK HOLD THE POTENTIAL FOR MODERATELY ENERGETIC FLARES AND
ONE OR TWO SMALL TO MEDIUM X-RAY FLARES IN THE FORECAST PERIOD
ARE VERY POSSIBLE.

II. THE GEOMAGNETIC FIELD FLUXUATIONS HAVE DECLINED TO ACTIVE LEVELS
IN THE WAKE OF YESTERDAYS GEOMAGNETIC STORM. THE FIELD IS EXPECTED
TO CONTINUE ITS QUIETING TREND TO UNSETTLED LEVELS BY THE END OF THE
FORECAST PERIOD.

III. EVENT PROBABILITIES 30 OCT-01 NOV

CLASS M 45/40/40

CLASSX 05/03/03

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 OCT 101

PREDICTED 30 OCT-01 NOV 99/97/94

90-DAY MEAN 29 OCT 92

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 28 OCT 15

ESTIMATED 29 OCT 52

PREDICTED 30 OCT-01 NOV 30/20/12

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HFUS BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 303

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 30 OCTOBER 1973.

IA. SOLAR ACTIVITY HAS REMAINED GENERALLY LOW DURING THE PAST 24 HOURS. REGION 267 (N16E07) PRODUCED A SUB-NORMAL CLASS C1 FLARE AT 30/0441Z. REGION 267 HAS DECLINED IN BOTH H-ALPHA AND WHITE LIGHT. REGION 264 (S13W38) HAS DECLINE SOMEWHAT, AND A DELTA CONFIGURATION NO LONGER IS VISIBLE. REGION 264 STILL CONTAINS A CONTORTED NEUTRAL LINE AND ENHANCED PLAGE SOUTHEAST OF THE LEADER. AT 30/1443Z, REGION 264 PRODUCED A SUBNORMAL FLARE WITH MAXIMA AT 1447Z AND 1453Z. A CLASS C4 X-RAY BURST WITH MAXIMUM AT 1500Z ACCOMPANIED THIS FLARE. REGION 264 PRODUCED ANOTHER SUB-NORMAL FLARE AT 1518Z, AND THIS SECOND EVENT HAD A MAXIMUM AT 1519Z. SOME OBSERVERS CONSIDERED THESE EVENTS TO BE ONE COMPLEX OPTICAL EVENT. AN INTERESTING SERIES OF DEKAMETRIC BURSTS ACCOMPANIED THE OPTICAL ACTIVITY IN REGION 264. AT 1445Z, AN IMPORTANCE-ONE TYPE III (3) BURST OCCURRED. A WEAK TYPE II (2) BURST FOLLOWED AT 1452-1500Z. IN ADDITION, A MODERATELY STRONG TYPE IV (4) BURST BEGAN AT 1445Z AND CONTINUED UNTIL ABOUT 2030Z. THE OPTICAL ACTIVITY IN REGION 264 DECAYED VERY SLOWLY FOLLOWING THE 1519Z MAXIMUM, AND THE PLAGE REMAINED NEAR FLARE INTENSITY FOR AT LEAST TWO HOURS. THE RELATED X-RAY EVENT AT 1-8 ANGSTROMS ALSO DECAYED VERY SLOWLY, AND AT 1735Z THE X-RAY BACKGROUND WAS STILL ABOVE THE CLASS C1 LEVEL. CENTIMETRIC BURSTS ACCOMPANYING THE ACTIVITY IN REGION 264 WERE VERY SMALL. A BURST OF ABOUT 8 FLUX UNITS ABOVE BACKGROUND WAS RECORDED AT 2695 MHZ AT 1540Z. NO PROTON ENHANCEMENT WAS OBSERVED AT 21-70 MEV BY THE ATS-1 SATELLITE. REGION 269 (N03E48) CONTAINS ENHANCED PLAGE BUT HAS SHOWN LITTLE DEVELOPMENT. OTHER REGIONS ARE DULL AND UNIMPRESSIVE. PLEASE NOTE-REGION NUMBER 271 AND 272 ARE NO LONGER BEING USED, DUE TO RECENT CONFUSION AND ERRORS. NEW REGION 273 IS LOCATED AT S17W19, AND REGION 274 IS LOCATED AT S12W10.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN GENERALLY LOW, BUT REGION 264 MAY PRODUCE SPORADIC ENERGETIC FLARES AS DECAY CONTINUES. REGION 264 PROBABLY WILL PRODUCE A CLASS M FLARE DURING THE THREE-DAY FORECAST PERIOD. NO SIGNIFICANT PROTON EVENT IS EXPECTED TO RESULT FROM THE RECENT ACTIVITY IN REGION 264.

II. THE MINOR GEOMAGNETIC STORM THAT BEGAN AT 29/0000Z HAS DECREASED GRADUALLY IN INTENSITY, AND UNSETTLED CONDITIONS ARE PRESENTLY BEING OBSERVED. ACTIVE CONDITIONS ARE EXPECTED DURING THE NEXT 24 HOURS, FOLLOWED BY UNSETTLED CONDITIONS.

III. EVENT PROBABILITIES 31 OCT - 02 NOV.

CLASS M 40/40/35

CLASS X 05/03/02

PROTON 05/03/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 30 OCT 101

PREDICTED 31 OCT - 02 NOV 96/94/92

90-DAY MEAN 30 OCT 92

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 29 OCT 48

ESTIMATED 30 OCT 24

PREDICTED 31 OCT - 02 NOV 21/12/10

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