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KBOU Q

HOUS 2 BOU 020200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT  
02/0200Z OCT 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT  
01/1640Z.

LOCATIONS VALID AT 02 OCT 0000Z.

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
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0234	N05W79	262	0080	H	01	02		ALPHA
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0236	N14W71	254	0380	E	11	08		BETA
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0241	N21W16	199	0100	H	02	01		ALPHA
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0243	N11W74	257	0010	A	02	03		ALPHA
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0245	S15W12	195	0060	C	05	14		BETA
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0247	S14E10	173	0060	B	10	30		BETA
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0248	N12E15	168	0130	H	02	01		ALPHA
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0251	N15E29	154	0010	A	01	01		ALPHA
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IA. H-ALPHA PLACES WITHOUT SPOTS. LOCATIONS VALID AT 02 OCT 0000Z.

0249	S13E50	134						
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II. NONE

III. AREAS OF SPECIAL INTEREST

REGION 245 CONTAINS AN EAST-WEST-RUNNING NEUTRAL LINE WITH  
PREDOMINANTLY LEADING POLARITY IN THE EAST PART OF THE REGION.

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HFUS 1 BOU 020600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 275A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 02 OCTOBER 1973

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 241 (N21W16) PRODUCED A SB  
FLARE AT 02/0303Z WHICH WAS CLASSIFIED AS A C-3. REGION 245 (S15W12)  
HAS PRODUCED SEVERAL NON-ENERGETIC SUBFLARES. THE OTHER REGIONS ARE  
QUIET AND STABLE.

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

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. DURING THE LAST HOUR A  
MINOR DISTURBANCE HAS BEEN OBSERVED.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

SPAN

BT

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HFUS 1 BOU 020600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 275A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 02 OCTOBER 1973

IA. SOLAR ACTIVITY HAS BEEN LOW. REGION 241 (N21W16) PRODUCED A SB  
FLARE AT 02/0303Z WHICH WAS CLASSIFIED AS A C-3. REGION 245 (S15W12)  
HAS PRODUCED SEVERAL NON-ENERGETIC SUBFLARES. THE OTHER REGIONS ARE  
QUIET AND STABLE.

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

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. DURING THE LAST HOUR A  
MINOR DISTURBANCE HAS BEEN OBSERVED.

III. NO CHANGE

IV. NO CHANGE

V. NO CHANGE

SOLTERWARN

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MAGNETIC COMPLEXITY. REGION 247 (S14E03) SHOWS GRADUAL GROWTH, BUT  
MAY BE SLOWING IN ITS

HFUS 1 BOU 021300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 275B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 02 OCTOBER 1973

IA. SOLAR ACTIVITY IS LOW, BEING LIMITED MOSTLY TO NON-ENERGETIC  
SUBFLARES AND INFREQUENT SMALL X-RAY FLARES (CLASS C). SIGNIFICANT  
RECENT ACTIVITY WAS A 1-NORMAL, C6 X-RAY FLARE AT 1220Z IN REGION 247.  
REGION 245 (S15W19) CONTINUES TO GROW AND RETAINS SOME DEGREE OF  
MAGNETIC COMPLEXITY. REGION 247 (S14E03) SHOWS GRADUAL GROWTH, BUT  
MAY BE SLOWING IN ITS DEVELOPMENT. REGION 236 (N14W78) IS PRESENTLY  
STABLE, AND WILL BE GOING OVER WEST LIMB TOMORROW. ASIDE FROM A SUB-  
NORMAL FLARE (0910Z) IN REGION 234 (N05W86), OTHER DISK REGIONS AND  
LIMBS ARE QUIET AND SHOW NO MARKED CHANGE. NOTE: LACK OF OBSERVATORY  
INPUT (DUE LARGELY TO POOR WEATHER) CAUSES THIS ANALYSIS TO BE  
BASED ON MINIMAL INFORMATION.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LIMITED TO SEVERAL NON-ENERGETIC  
SUB-FLARES, AND ONE OR TWO SMALL CLASS C X-RAY EVENTS PER DAY. THE  
POTENTIAL EXISTS FOR A LARGE CLASS C, OR CLASS M X-RAY FLARE,  
THOUGH SUCH ACTIVITY IS NOT CONSIDERED PROBABLE.

II. THE GEOMAGNETIC FIELD BECAME ACTIVE AT 02/0500Z AND IS EXPECTED  
TO REMAIN ACTIVE TO UNSETTLED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 02 OCT - 04 OCT

CLASS M 35/35/35

CLASS X 02/02/02

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 OCT 109

PREDICTED 02 OCT - 04 OCT 108/106/104

90-DAY MEAN 01 OCT 92

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 30 SEP 03

ESTIMATED 01 OCT 05

PREDICTED 02 OCT - 04 OCT 20/18/16

SOLTERWARN

SPAN

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 275

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 02 OCTOBER 1973.

IA. SOLAR ACTIVITY HAS REMAINED LOW DURING THE PAST 24 HOURS,  
AND NO MAJOR ACTIVITY HAS BEEN REPORTED. THE MOST ENERGETIC  
EVENT OBSERVED CONSISTED OF A CLASS-C6 IMPORTANCE ONE-NORMAL  
FLARE AT 02/1220Z IN REGION 247 (S14W04). SLIGHT DEVELOPMENT  
AND INTENSIFICATION OF MAGNETIC FIELD GRADIENTS HAVE OCCURRED  
IN REGION 247. REGION 245 (S15W24) STILL CONTAINS FLUCTUATING  
PLAGE AND AN UNUSUAL SPOT GROUP WITH LEADING POLARITY IN THE  
SOUTHERN PART OF THE REGION. REGIONS 236, 243 AND 234 (N13W83,  
N11W86, N05W90) NOW LIE CLOSE TO THE WEST LIMB, AND MINOR  
SURGES HAVE BEEN REPORTED FROM THIS COMPLEX. THE EAST LIMB IS  
QUIET.

IB. SOLAR ACTIVITY PROBABLY WILL REMAIN LOW. REGIONS 245, 247,  
236 AND 243 ARE EXPECTED TO PRODUCE SPORADIC SUBFLARE DURING  
THE FORECAST PERIOD. REGIONS 245 AND 247 MAY PRODUCE ONE OR  
TWO SMALL CLASS M FLARES DURING THE NEXT SEVERAL DAYS. MINOR  
LIMB ACTIVITY PROBABLY WILL BE OBSERVED AS REGIONS 236, 243  
AND 234 COMPLETE PASSAGE OVER THE WEST LIMB.

II. THE GEOMAGNETIC FIELD BECAME GRADUALLY DISTURBED TO MINOR  
STORM INTENSITY AT ABOUT 02/0430Z. K-INDICES AT BOULDER WERE  
5, 3, 5, 5, 4 AND 3 DURING THE INTERVALS 0300-0600, 0600-0900,  
0900-1200, 1200-1500, 1500-1800 AND 1800-2100Z RESPECTIVELY.  
UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED DURING THE NEXT  
36 HOURS, WITH LARGER FLUCTUATIONS MOST LIKELY DURING LOCAL  
NIGHT HOURS.

III. EVENT PROBABILITIES 03 OCT - 05 OCT.

CLASS M 35/35/35

CLASS X 02/02/02

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 02 OCT 106

PREDICTED 03 OCT - 05 OCT 106/104/101

90-DAY MEAN 02 OCT 92

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 01 OCT 05

ESTIMATED 02 OCT 24

PREDICTED 03 OCT - 05 OCT 15/13/09

SOLTERWARN

SPAN

BT