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KBOU

HOUS 2 BOU 160200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT  
16/0200Z DEC 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOU TAKEN AT 15/1615Z.  
LOCATIONS VALID AT 16 DEC 0000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0296 N03W30 305 0020 H 01 01 ALPHA

0299 N07E75 200 0020 H 01 01 ALPHA

MAGNETIC CLASS INFERRED AT BOULDER.

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 16 DEC 0000Z.

NMBR LOCATION LO

0297 S14E25 250

0298 S11W74 349

II. NONE.

III. AREAS OF SPECIAL INTEREST-

EAST LIMB.

SOLTERWARN

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KBOU B  
HFUS 1 BOU 160600  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 350A  
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 16 DECEMBER 1973  
IA. SOLAR ACTIVITY HAS BEEN VERY LOW DURING THE PAST 8 HOURS. NO  
FLARES HAVE BEEN OBSERVED. THE LIMBS ARE QUIET.  
IB. NO MAJOR ACTIVITY IS EXPECTED DURING THE NEXT 7 HOURS. SOLAR  
ACTIVITY WILL CONTINUE AT A LOW LEVEL.  
II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO  
CONTINUE IN A QUIET STATE DURING THE NEXT 24 HOURS.  
III. NO CHANGE.  
IV. NO CHANGE.  
V. NO CHANGE.  
SOLTERWARN  
SPAN  
BT

HFUS 1 BOU 161300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 350B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 16 DECEMBER 1973

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 8 HOURS WITH  
7 FLARES OBSERVED. REGION 300 (S18E81) HAS BEEN THE MOST ACTIVE. IT  
HAS PRODUCED 4 IMPORTANCE ONE FLARES, 2 OF WHICH WERE M CLASS X-RAY  
EVENTS ACCCOMPANIED BY SMALL RADIO BURSTS. THE LARGEST AND MOST RECENT  
OF THESE EVENTS WAS AN M-3 AT 1110Z THAT PRODUCED A SPRAY OUT TO 0.1  
RADII.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO LOW DURING THE NEXT  
24 HOURS. REGION 300 IS AT PRESENT RELATIVELY SMALL AND SHOULD BE  
OBSERVED WITH CAUTION FOR CONTINUED GROWTH AND ENERGETIC ACTIVITY.

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

III. EVENT PROBABILITIES 16 DEC - 18 DEC

CLASS M 60/50/40

CLASS X 10/05/05

PROTON 02/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 DEC 79

PREDICTED 16 DEC - 18 DEC 81/84/86

90-DAY MEAN 15 DEC 87

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 14 DEC 03

ESTIMATED AFR/AP 15 DEC 07/08

PREDICTED AFR/AP 16 DEC - 18 DEC 02/03 - 04/05 - 10/11

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KBOU

HFUS BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 350

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 16 DEC 1973

IA. SOLAR ACTIVITY HAS INCREASED SIGNIFICANTLY DURING THE PAST 24 HOURS, PRIMARILY DUE TO NEW REGION 300 (S17E79). REGION 300 CONTAINS A SMALL D-TYPE SPOT GROUP WITH LEADER POLARITY IN THE NORTH. THE MAGNETIC GRADIENTS APPEAR STRONG IN THE NORTHERN PART OF THE REGION, AND THE REGION APPEARS TO BE DYNAMIC AND POSSIBLY DEVELOPING. THIS REGION HAS PRODUCED FREQUENT BRIGHT AND DARK SURGES AND HAS PRODUCED EIGHT SMALL FLARES DURING THE PAST 17 HOURS. OF THESE EVENTS, AN IMPORTANCE ONE-NORMAL FLARE REACHED CLASS M1 INTENSITY AT 16/0752Z, AND A SUB-BRILLIANT FLARE AND ASSOCIATED SPRAY REACHED CLASS M3 INTENSITY AT 16/1110Z. OTHER REGIONS ARE QUIET AND UNIMPRESSIVE.

IB. SOLAR ACTIVITY PROBABLY WILL BE LOW TO MODERATE DURING THE NEXT THREE DAYS. REGION 300 PROBABLY WILL PRODUCE SPORADIC SMALL FLARES, SOME OF THEM IN THE CLASS-M RANGE. OLD REGIONS 287 AND 292 ARE DUE TO RETURN TO THE SOUTHEAST LIMB ON 18 DECEMBER; IF THESE REGIONS ARE STILL DYNAMIC, SOLAR ACTIVITY MAY SHOW AN ADDITIONAL INCREASE ON 18 DECEMBER.

II. THE GEOMAGNETIC FIELD HAS REMAINED QUIET AND IS EXPECTED TO REMAIN GENERALLY QUIET DURING THE THREE-DAY FORECAST PERIOD.

III. EVENT PROBABILITIES 17 - 19 DEC

CLASS M 60/60/70

CLASS X 05/05/07

PROTON 01/01/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 DEC 82

PREDICTED 17 - 19 DEC 88/91/93

90-DAY MEAN 16 DEC 86

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 DEC 05

ESTIMATED AFR/AP 16 DEC 02/03

PREDICTED AFR/AP 17 - 19 DEC 05/06 - 07/08 - 05/06

SOLTERWARN

SPAN

BT