

NNNN

KBOU AZZNNNN

KBOU

HOUS 2 BOU 230200

JOINT AFGWC/SESC SOLAR REGION AND ACTIVITY SUMMARY ISSUED AT  
23/0200Z DEC 1973.

I. REGIONS WITH SUNSPOTS. SUNSPOT DATA FROM BOULDER TAKEN AT  
22/1840Z. LOCATIONS VALID AT 22 DEC 0000Z.

NMBR LOCATION LO AREA Z LL NN MAG TYPE

0299 N07W15 197 0020 C 03 04 BETA

0300 S18W10 192 0460 E 13 49 BETA

0305 S15W27 209 0010 B 03 02 BETA

IA. H-ALPHA PLAGES WITHOUT SPOTS. LOCATIONS VALID AT 23 DEC 0000Z.

NMBR LOCATION LO

0301 S07W09 191

0302 S12E23 159

0303 S12W30 212

0304 S15W33 215

0297 S15W67 249

II. NONE.

III. NONE.

SOLTERWARN

SPAN

BT

NNNN

KBOU B

HFUS 1 BOU 230600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 357A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 23 DECEMBER 1973

IA. SOLAR ACTIVITY CONTINUES AT A VERY LOW LEVEL. ONE MINOR SUB-  
FLARE HAS BEEN OBSERVED DURING THE PAST 8 HOURS. A NEW REGION 306  
(S11W26) WITH A "B" TYPE SPOT HAS BEEN OBSERVED. THE DISK AND THE  
LIMBS ARE QUIET.

IB. ONLY MINOR NON-ENERGETIC FLARES ARE EXPECTED DURING THE NEXT 7  
HOURS.

II. THE GEOMAGNETIC DISTURBANCE CONTINUES AT A MINOR LEVEL. THE  
DISTURBANCE WILL GRADUALLY DECLINE DURING THE NEXT 24 HOURS.

III. NO CHANGE.

IV. NO CHANGE.

V. NO CHANGE.

SOLTERWARN

SPAN

BT

KBOU B

HFUS 1 BOU 231300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 357B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 23 DECEMBER 1973

IA. SOLAR ACTIVITY CONTINUES VERY LOW, ALTHOUGH THE POTENTIAL FOR INCREASED ACTIVITY STILL EXISTS. REGION 300 (S18W17) HAS SIMPLIFIED SOMEWHAT BUT RETAINS A BETA GAMMA MAGNETIC CONFIGURATION. THE ONLY ACTIVITY FROM THIS REGION IN THE LAST 24 HOURS WAS A SUBFAINT FLARE AT 23/0104Z, BUT THE POTENTIAL FOR ENERGETIC ACTIVITY REMAINS RELATIVELY HIGH FOR THE NEXT 24 HOURS. REGION 305 (S15W34) IS CURRENTLY A SIMPLE BETA GROUP BUT IS GROWING RAPIDLY IN WHITE LIGHT AND HAS PRODUCED TWO SUBFLARES DURING THE LAST 24 HOURS. A SUBNORMAL FLARE AT 23/0800Z WAS ACCOMPANIED BY A WEAK TYPE II RADIO BURST.

IB. WITH FURTHER SIMPLIFICATION EXPECTED IN REGION 300 THE CHANCE OF AN ENERGETIC EVENT SHOULD DECREASE OVER THE FORECAST PERIOD. HOWEVER, IF RAPID GROWTH CONTINUES IN REGION 305, LATER FORECASTS MAY SHOW HIGHER PROBABILITIES OF ENERGETIC EVENTS DURING THE LATTER PORTION OF THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD CONTINUES ACTIVE, BUT THE DISTURBANCE SHOULD DECREASE WITH QUIET CONDITIONS EXPECTED BY THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 23 DEC - 25 DEC

CLASS M 45/35/25

CLASS X 05/03/02

PROTON 02/02/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 DEC 102

PREDICTED 23 DEC - 25 DEC 98/96/94

90-DAY MEAN 22 DEC 86

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 DEC 25

ESTIMATED AFR/AP 22 DEC 14/16

PREDICTED AFR/AP 23 DEC - 25 DEC 16/18 - 10/11 - 05/06

SOLTERWARN

SPAN

BT

HFUS 1 BOU 231300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 357B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1300Z 23 DECEMBER 1973

IA. SOLAR ACTIVITY CONTINUES VERY LOW, ALTHOUGH THE POTENTIAL FOR INCREASED ACTIVITY STILL EXISTS. REGION 300 (S18W17) HAS SIMPLIFIED SOMEWHAT BUT RETAINS A BETA GAMMA MAGNETIC CONFIGURATION. THE ONLY ACTIVITY FROM THIS REGION IN THE LAST 24 HOURS WAS A SUBFAINT FLARE AT 23/0104Z, BUT THE POTENTIAL FOR ENERGETIC ACTIVITY REMAINS RELATIVELY HIGH FOR THE NEXT 24 HOURS. REGION 305 (S15W34) IS CURRENTLY A SIMPLE BETA GROUP BUT IS GROWING RAPIDLY IN WHITE LIGHT AND HAS PRODUCED TWO SUBFLARES DURING THE LAST 24 HOURS. A SUBNORMAL FLARE AT 23/0800Z WAS ACCOMPANIED BY A WEAK TYPE II RADIO BURST.

IB. WITH FURTHER SIMPLIFICATION EXPECTED IN REGION 300 THE CHANCE OF AN ENERGETIC EVENT SHOULD DECREASE OVER THE FORECAST PERIOD. HOWEVER, IF RAPID GROWTH CONTINUES IN REGION 305, LATER FORECASTS MAY SHOW HIGHER PROBABILITIES OF ENERGETIC EVENTS DURING THE LATTER PORTION OF THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD CONTINUES ACTIVE, BUT THE DISTURBANCE SHOULD DECREASE WITH QUIET CONDITIONS EXPECTED BY THE END OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 23 DEC - 25 DEC

CLASS M 45/35/25

CLASS X 05/03/02

PROTON 02/02/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 DEC 102

PREDICTED 23 DEC - 25 DEC 98/96/94

90-DAY MEAN 22 DEC 86

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 DEC 25

ESTIMATED AFR/AP 22 DEC 14/16

PREDICTED AFR/AP 23 DEC - 25 DEC 16/18 - 10/11 - 05/06

SOLTERWARN

SPAN

BT

2213

RR KGFF  
DE KAWN 232207Z  
ZUI KGFF  
2.

HFUS BOU 232200  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 357  
JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 23 DECEMBER 1973  
IA. SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 300 (S16W23) IS  
SIMPLYFYING; IT HAS PRODUCED ONE IMPORTANCE OF FLARE.  
REGIONS 305 (S15W43) AND 306 (S12W38) HAVE GROWN RAPIDLY IN  
SPOT AND PLAGE STRUCTURE. TWO IMPORTANCE ON FLARES HAVE BEEN  
REPORTED IN 305. THE MOST RECENT OF THESE FLARES, 23/0752Z,  
APPARENTLY PRODUCED WEAK TYPE-II RADIO EMISSION. THE LIMBS HAVE  
BEEN QUIET.  
IB. A GENERALLY LOW LEVEL OF ACTIVITY IS EXPECTED FOR THE NEXT  
72 HOURS. INFREQUENT SMALL CLASS M EVENTS ARE POSSIBLE FROM  
REGION 300 AND/OR 305. NO REGIONS ARE DUE TO RETURN.  
II. THE GEOMAGNETIC FIELD WAS ACTIVE DURING LOCAL NIGHT. THE  
FIELD WILL BE UNSETTLED FOR THE NEXT 1218 HOURS AND QUIET  
THEREAFTER.  
III. EVENT PROBABILITIES 24 26 DEC  
CLASS M 45/40/35  
CLASS X 03/03/02  
PROTON 03/03/02  
PCAF GREEN  
IV. OTTAWA 10.7 CM FLUX  
OBSERVED 23 DEC 99  
PREDICTED 2426 DEC 99/98/96  
90DAY MEAN 23 DEC 86  
V. GEOMAGNETIC A INDICES  
OBSERVED FREDERICKSBURG 22 DEC 19  
ESTIMATED AFR/AP 23 DEC 20/24  
PREDICTED AFR/AP 2426 DEC 10/11 05/06 05/06  
SOLTERWARN  
SPAN  
BT

NNNN

HFUS BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 357

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 23 DECEMBER 1973

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 300 (S16W23) IS  
SIMPLYFYING; IT HAS PRODUCED ONE IMPORTANCE OF FLARE.  
REGIONS 305 (S15W43) AND 306 (S12W38) HAVE GROWN RAPIDLY IN  
SPOT AND PLAGE STRUCTURE. TWO IMPORTANCE ON FLARES HAVE BEEN  
REPORTED IN 305. THE MOST RECENT OF THESE FLARES, 23/0752Z,  
APPARENTLY PRODUCED WEAK TYPE II RADIO EMISSION. THE LIMBS HAVE  
BEEN QUIET.

IB. A GENERALLY LOW LEVEL OF ACTIVITY IS EXPECTED FOR THE NEXT  
72 HOURS. INFREQUENT SMALL CLASS M EVENTS ARE POSSIBLE FROM  
REGION 300 AND/OR 305. NO REGIONS ARE DUE TO RETURN.

II. THE GEOMAGNETIC FIELD WAS ACTIVE DURING LOCAL NIGHT. THE  
FIELD WILL BE UNSETTLED FOR THE NEXT 12-18 HOURS AND QUIET  
THEREAFTER.

III. EVENT PROBABILITIES 24 - 26 DEC

CLASS M 45/40/35

CLASS X 03/03/02

PROTON 03/03/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 DEC 99

PREDICTED 24-26 DEC 99/98/96

90-DAY MEAN 23 DEC 86

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 DEC 19

ESTIMATED AFR/AP 23 DEC 20/24

PREDICTED AFR/AP 24-26 DEC 10/11 - 05/06 - 05/06

SOLTERWARN

SPAN

BT

NNNN  
KBOU X  
HFUS BOU 232200  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 357  
JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 23 DECEMBER 1973  
IA. SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 300 (S16W23) IS  
SIMPLYFYING; IT HAS PRODUCED ONE IMPORTANCE OF FLARE.  
REGIONS 305 (S15W43) AND 306 (S12W38) HAVE GROWN RAPIDLY IN  
SPOT AND PLAGE STRUCTURE. TWO IMPORTANCE ON FLARES HAVE BEEN  
REPORTED IN 305. THE MOST RECENT OF THESE FLARES, 23/0752Z,  
APPARENTLY PRODUCED WEAK TYPE II RADIO EMISSION. THE LIMBS HAVE  
BEEN QUIET.  
IB. A GENERALLY LOW LEVEL OF ACTIVITY IS EXPECTED FOR THE NEXT  
72 HOURS. INFREQUENT SMALL CLASS M EVENTS ARE POSSIBLE FROM  
REGION 300 AND/OR 305. NO REGIONS ARE DUE TO RETURN.  
II. THE GEOMAGNETIC FIELD WAS ACTIVE DURING LOCAL NIGHT. THE  
FIELD WILL BE UNSETTLED FOR THE NEXT 12-18 HOURS AND QUIET  
THEREAFTER.  
III. EVENT PROBABILITIES 24 - 26 DEC  
CLASS M 45/40/35  
CLASS X 03/03/02  
PROTON 03/03/02  
PCAF GREEN  
IV. OTTAWA 10.7 CM FLUX  
OBSERVED 23 DEC 99  
PREDICTED 24-26 DEC 99/98/96  
90-DAY MEAN 23 DEC 86  
V. GEOMAGNETIC A INDICES  
OBSERVED FREDERICKSBURG 22 DEC 19  
ESTIMATED AFR/AP 23 DEC 20/24  
PREDICTED AFR/AP 24-26 DEC 10/11 - 05/06 - 05/06  
SOLTERWARN  
SPAN  
BT