

HFUS 3 BOU 220530  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 356A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 22 DECEMBER 1977

IA. SOLAR ACTIVITY HAS BEEN VERY LOW DURING THE PAST EIGHT HOURS.  
ALL REGIONS APPEAR STABLE AND THE LIMBS ARE QUIET.

IB. SOLAR ACTIVITY WILL CONTINUE AT A VERY LOW LEVEL.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO  
CONTINUE TO BE QUIET TO SLIGHTLY UNSETTLED.

III. EVENT PROBABILITIES 22 DECEMBER - 24 DECEMBER

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 DECEMBER 91

PREDICTED 22-24 DECEMBER 92/92/93

90-DAY MEAN 21 DECEMBER 97

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 DECEMBER 04

ESTIMATED AFR/AP 21 DECEMBER 04/04

PREDICTED AFR/AP 22-24 DECEMBER 10/10 - 12/12 - 07/07

SOLTERWARN

BT

HFUS 3 BOU 221500  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 356-B  
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1500Z 22 DEC 1977

IA. SOLAR ACTIVITY HAS BEEN VERY LOW. REGIONS 961 (N 15W50) AND 963 (N22E19) BOTH REMAIN STABLE. MINOR X-RAY BURSTS ARE OCCURRING AT THE RATE OF ONE EVERY TWO HOURS. RAMEY REPORTS IMPRESSIVE SURGING AND PROMINENCE ACTIVITY NEAR NE17 WHERE OLD REGION 946 IS DUE TO RETURN. CULGOORA REPORTS NEAR CONTINUOUS LIMB ACTIVITY NEAR NE30. A WEAK TYPE I RADIO STORM HAS DEVELOPED ABOVE THE APPROACHING REGION AND IS INTENSIFYING.

IB. SOLAR ACTIVITY IS EXPECTED TO INCREASE AS THE EAST LIMB ACTIVITY ROTATES ON TO THE DISK. THE EVENT PROBABILITIES ON THE 2200Z MSG WILL REFLECT DATA OBTAINED LATER.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. QUIET TO SLIGHTLY UNSETLED CONDITIONS ARE EXPECTED FOR THE NEXT 24 - 48 HOURS.

III. EVENT PROBABILITIES 22 DECEMBER - 24 DECEMBER

CLASS M	01/01/01
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	21 DECEMBER 91
PREDICTED	22-24 DECEMBER 92/92/93
90-DAY MEAN	21 DECEMBER 97

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG	20 DECEMBER 04
ESTIMATED AFR/AP	21 DECEMBER 04/04
PREDICTED AFR/AP	22-24 DECEMBER 10/10 - 12/12 - 07/07

SOLTERWARN

BT

HFUS 1 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 356

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 22 DEC 1977

IA. SOLAR ACTIVITY REMAINS VERY LOW. REGION 961 (N15W56) REMAINS STABLE. REGION 963 (N22E15) HAS DEVELOPED ANOMOLOUS TRAILER POLARITY WEST AND NORTH OF THE LARGE LEADER SPOT. POINT BRIGHTENINGS ARE OCCURRING WEST OF THE LEADER. SPOT STRUCTURE HAS REEMERGED IN REGION 965 (S28W16). THE IMPRESSIVE SURGING NEAR NE17 THAT WAS OCCURRING EARLIER HAS DIMINISHED TO WEAK SURGING. NO STRUCTURE HAS YET ROTATED ON TO THE DISK AT THIS POSITION NOR AT NE30 WHERE CULGOORA REPORTED AN INTENSIFYING TYPE I RADIO STORM. BOTH RAMEY AND PALEHUA REPORT AN EMERGING REGION NEAR S14W44 BUT IT DOES NOT YET HAVE SPOTS.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW BUT MAY INCREASE TO A FEW FLARES PER DAY AS THE NORTHEAST LIMB STRUCTURE ROTATES ON TO THE DISK.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD IS EXPECTED TO BE QUIET TO SLIGHTLY UNSETLED FOR THE NEXT 3 DAYS.

III. EVENT PROBABILITIES 23 - 25 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 DEC 93

PREDICTED 23 - 25 DEC 93/94/96

90-DAY MEAN 22 DEC 97

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 21 DEC 05

ESTIMATED AFR/AP 22 DEC 02/04

PREDICTED AFR/AP 23 - 25 DEC 07/07 - 07/07 - 05/05

SOLTERWARN

BT