

HFUS 1 BOU 200600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 051A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 0600Z 20 FEB 1974

IA. SOLAR ACTIVITY REMAINS LOW. REGION 352 (S18W29) CONTINUES TO PERCOLATE AND PRODUCE OCCASIONAL SUBFLARES AND TYPE III RADIO BURSTS. THREE SUBFLARES, ONE A CLASS C3, HAVE BEEN REPORTED FROM THIS REGION IN THE PAST 8 HOURS.

IB. ACTIVITY IS EXPECTED TO REMAIN LOW, REGION 352 APPEARS TO BE APPROACHING MATURITY AND CAN BE EXPECTED TO YIELD OCCASIONAL CLASS C SUBFLARES DURING THE NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD CONTINUES QUIET. UNSETTLED CONDITIONS ASSOCIATED WITH A RECURRENT DISTURBANCE ARE EXPECTED WITHIN 12 HOURS.

III. EVENT PROBABILITIES NO CHANGE

IV. OTTAWA 10.7 CM FLUX NO CHANGE

V. GEOMAGNETIC A INDICES NO CHANGE

SOLTERWARN

SPAN

BT

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 051B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 1400Z 20 FEBRUARY 1974.

IA. SOLAR ACTIVITY REMAINS LOW. REGION 352 (S18W33) APPEARS TO  
HAVE REACHED MATURITY WITH SIMPLIFICATION IN THE INTERMEDIATE  
SUNSPOT STRUCTURE. MINOR SURGES MAY ACCOMPANY REGION 347 (S16W87)  
AS IT CROSSES WEST LIMB.

IB. THREE TO FIVE FLARES PER DAY, UP TO LOW LEVEL CLASS M, ARE  
EXPECTED FROM REGION 352. CENTIMETRIC AND DEKAMETRIC BURSTS  
ARE ALSO EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. IT IS EXPECTED TO  
BECOME UNSETTLED TO ACTIVE THIS ZULU DAY AND REMAIN ACTIVE FOR  
THE BALANCE OF THE FORECAST PERIOD. THIS IS A RECURRENT  
STRUCTURE.

III. EVENT PROBABILITIES 20 FEB - 22 FEB.

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 19 FEB 85

PREDICTED 20 FEB - 22 FEB 83/80/78

90-DAY MEAN 19 FEB 84

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 18 FEB 01

ESTIMATED AFR/AP 19 FEB 03/04

PREDICTED AFR/AP 20 FEB - 22 FEB 10/11 - 22/28 - 22/28

SOLTERWARN

SPAN

BT

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 051

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 20 FEBRUARY 1974.

IA. SOLAR ACTIVITY HAS BEEN MODERATE DUE SOLELY TO ACTIVITY IN  
REGION 352 (N17W38), WHICH HAS CEASED ITS GROWTH BUT RETAINS  
MAGNETIC COMPLEXITY NORTH AND WEST OF THE TRAILER SPOTS. A ONE-  
BRIGHT FLARE OCCURRED HERE AT 1513Z WITH ASSOCIATED SMALL CENTI-  
METRIC BURSTS, A STRONG TYPE III BURST FOLLOWED BY BRIEF TYPE IV  
CONTINUUM AT DEKAMETRIC WAVELENGTHS, AND SHORT WAVE FADES OF  
19 DB AT 12 MHZ AND 14 DB AT 18 MHZ. NO X-RAY DATA IS AVAILABLE  
FOR THE EVENT, BUT IT IS LIKELY THAT LOW CLASS M THRESHOLDS WERE  
EXCEEDED. REGION 352 HAS ALSO PRODUCED SEVERAL NON-ENERGETIC  
SUBFLARES IN THE LAST 24 HOURS.

IB. ACTIVITY IS EXPECTED TO BE LOW TO MODERATE FOR THE NEXT 24  
HOURS, WITH FREQUENT SUBFLARES AND A POSSIBILITY OF ENERGETIC  
ACTIVITY IN REGION 352. THIS REGION APPEARS TO BE AT MAXIMUM  
POTENTIAL, AND SOME DECLINE AND SIMPLIFICATION IS LIKELY BY THE  
END OF THE FORECAST PERIOD. THOUGH THE POSSIBILITY OF A  
PARTICLE EVENT IS QUIET SMALL, THE GEOMETRY FOR NEAR EARTH PAR-  
TICLES FROM REGION 352 IS FAVORABLE.

II. THE GEOMAGNETIC FIELD BECAME UNSETTLED FROM FORMERLY QUIET  
CONDITIONS AT ABOUT 1400Z. RECURRENT SECTOR STRUCTURE INDIC-  
ATES THE ONSET OF STRONGLY ACTIVE CONDITIONS, WITH POSSIBLE  
MINOR STORM CONDITIONS AT HIGHER LATITUDES, WITHIN THE NEXT 24  
HOURS, AND ACTIVE CONDITIONS ARE EXPECTED TO PERSIST THROUGHOUT  
THE FORECAST PERIOD.

III. EVENT PROBABILITIES 21 FEB - 23 FEB.

CLASS M 35/30/20

CLASS M 03/02/01

PROTON 02/02/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 20 FEB 84

PREDICTED 21 FEB - 23 FEB 82/80/78

90-DAY MEAN 20 FEB 84

V. GEOMAGNETIC A INDICES.

OBSERVED FREDERICKSBURG 19 FEB 03

ESTIMATED AFR/AP 20 FEB 08/09

PREDICTED AFR/AP 21 FEB - 23 FEB 22/28 - 22/28 - 20/24

SOLTERWARN

SPAN

BT