

HFUS 3 BOU 210600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 111A

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 21 APRIL 1978

IA. SOLAR ACTIVITY HAS BEEN VERY LOW THIS ZULU DAY. REGIONS 1083
(N17E21) AND 1086 (N21E20) HAVE CONTINUED TO GROW BUT LACK OF ACTIVITY
WOULD INDICATE NO REGION HAS ANY STRONG GRADIENTS OR COMPLEXITY.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETTLED. THESE CONDITIONS
ARE EXPECTED TO CONTINUE FOR THE BALANCE OF THIS ZULU DAY

III. EVENT PROBABILITIES 21-23 APRIL

CLASS M 40/45/50

CLASS X 10/10/10

PROTON 10/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 APRIL 139

PREDICTED 21-23 APR 140/140/144

90-DAY MEAN 20 APRIL 141

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 APRIL 29

ESTIMATED AFR/AP 20 APRIL 14/31

PREDICTED AFR/AP 21-23 APRIL 10/15 - 25/30 - 25/25

SOLTERWARN

BT

HFUS 3 BOU 211500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 111B

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 21 APRIL 1978

IA. SOLAR ACTIVITY HAS BEEN LOW. A CLASS C8 FLARE EVENT AT 0729Z
WAS ACCOMPANIED BY MINOR RADIO BURSTS BUT WAS UNOBSERVED OPTICALLY.
MINOR GROWTH CONTINUES IN THE COMPLEX REGIONS 1070/1073 AT NW LIMB
AND 1083/1086 AT N18E15.

IB. SOLAR ACTIVITY WILL CONTINUE LOW UNLESS A SIGNIFICANT INCREASE
IN GROWTH OCCURS IN REGION 1083/1086. REGION 1070 IS A POTENTIAL
SOURCE OF A MAJOR EVENT FOR THE NEXT DAY OR TWO.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS.
QUIET CONDITIONS WILL GIVE WAY TO ACTIVE CONDITIONS IN ABOUT 24
HOURS AS A RECURRENT MAGNETIC STORM IS DUE.

III. EVENT PROBABILITIES 21-23 APRIL

CLASS M 40/30/30

CLASS X 10/05/01

PROTON 10/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 APRIL 139

PREDICTED 21-23 APRIL 138/133/130

90-DAY MEAN 20 APRIL 141

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 APRIL 29

ESTIMATED AFR/AP 20 APRIL 14/31

PREDICTED AFR/AP 21-23 APRIL 08/10 - 25/30 - 25/30

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HFUS 1 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 111

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 21 APRIL 1978

IA. SOLAR ACTIVITY HAS BEEN LOW. A C8 EVENT AT 0729Z IS THE LARGEST EVENT TODAY, BUT WAS UNOBSERVED OPTICALLY. NUMEROUS SURGES WITH CLASS C X-RAYS HAVE OCCURRED AS REGION 1070 (N13) CROSSED WEST LIMB.

IMPORTANT SPOT GROWTH IN REGION 1073 (N19W75) AND 1088 (N20W62) WAS ACCOMPANIED BY A RISE IN RADIO FLUX OVER THIS COMPLEX. SPOT GROWTH AND A SLIGHTLY COMPLEX MAGNETIC CONFIGURATION WERE REPORTED FOR REGION 1086 (N21E09) WHICH IS NOW AN ESI SPOT GROUP. A NEW REGION AT N13W15 (REGION 1090) CONTINUES TO GROW.

IB. DEVELOPMENT OF THE NORTHWEST COMPLEX MAKES IT A POSSIBLE SOURCE OF MAJOR FLARE ACTIVITY FOR THE NEXT DAY OR TWO. NUMEROUS CLASS C EVENTS ARE EXPECTED IN REGION 1086.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TODAY. A RECURRENT STORM IS EXPECTED TO BEGIN LATE TOMORROW.

III. EVENT PROBABILITIES 22-24 APRIL

CLASS M 40/30/30

CLASS X 10/05/01

PROTON 10/05/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 APR 142

PREDICTED 22-24 APR 138/133/130

90-DAY MEAN 21 APR 142

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 APR 13

ESTIMATED AFR/AP 21 APR 08/12

PREDICTED AFR/AP 22-24 APR 25/30 - 25/30 - 18/25

SOLTERWARN

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