

HFUS 3 BOU 150600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 105A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 15 APRIL 1977

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 8 HOURS. REGION
807 PRODUCED A C2 FLARE AT 0151Z. APPROXIMATELY 26 SPOTS HAVE BEEN
SEEN WITH SOME SPOT GROWTH IN THE NW EXTREMITY AND SPOT DECAY
IN THE SOUTHERN EXTREMITY. SOME N/LINE ACTIVITY IN BOTH WINGS
HAS BEEN OBSERVED.

IB. FURTHER GROWTH WILL GIVE DISTINCT CHANCE FOR CLASS X AND
PROTON EVENT. NO OTHER SIGNIFICANT REGIONS ARE EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED FOR THE PAST
8 HOURS. UNSETTLED CONDITIONS ARE EXPECTED.

III. EVENT PROBABILITIES 15-17 APRIL

CLASS M 60/70/80

CLASS X 20/20/25

PROTON 10/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 APRIL 83

PREDICTED 15-17 APRIL 85/87/89

90-DAY MEAN 14 APRIL 79

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 APRIL 05

ESTIMATED AFR/AP 14 APRIL 09/09

PREDICTED AFR/AP 15-17 APRIL 10/15 - 15/20 - 15/20

SOLTERWARN

BT

HFUS 3 BOU 151500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 105-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 15 APRIL 1977

IA. SOLAR ACTIVITY WAS LOW FOR THE PAST 12 HOURS WITH REGION 807
(S20E34) PRODUCING CLASS C FLARES AT 0151Z, 0508Z AND 0849Z. THE
LAST EVENT WAS REPORTED AS A ONE-NORMAL OPTICAL FLARE. ADDITIONAL
SPOT GROWTH HAS OCCURRED, GIVING RISE TO A HIGHER AND MORE VARIABLE
LEVEL OF X-RAY BACKGROUND. THE SPOT CLASS REMAINS AT DAI BUT WITH
A TREND TOWARD A COMPACT INTERIOR CLASSIFICATION.

IB. PRESENT TRENDS OF EVOLUTION IN REGION 807 INDICATE MAJOR
ACTIVITY IS LIKELY. CLASS M EVENTS ARE EXPECTED DAILY. A CLASS
X EVENT IS EXPECTED DURING THIS FORECAST PERIOD. A PROTON EVENT
COULD FOLLOW THIS EVENT, PARTICULARLY IF IT OCCURS ON THE THIRD DAY.

II. THE GEOMAGNETIC FIELD HAS VARIED FROM SLIGHTLY ACTIVE TO QUIET
DURING THE PAST 12 HOURS. UNSETTLED CONDITIONS ARE EXPECTED THROUGH-
OUT THIS FORECAST PERIOD. MORE ACTIVE CONDITIONS MAY OCCUR IF A
PORTION OF THE PARTICLES FROM A 12 APRIL LIMB EVENT INTERCEPTS THE
EARTH LATER TODAY.

III. EVENT PROBABILITIES 15 - 17 APRIL

CLASS M 60/70/80

CLASS X 20/20/25

PROTON 10/10/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 APRIL 83

PREDICTED 15 - 17 APRIL 85/87/89

90-DAY MEAN 14 APRIL 79

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 APRIL 05

ESTIMATED AFR/AP 14 APRIL 09/09

PREDICTED AFR/AP 15 - 17 APRIL 10/15 - 15/20 - 15/20

SOLTERWARN

BT

HFUS 1 BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 105

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 15 APRIL 1977

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. REGION 807 (S20E28) PRODUCED CLASS-C FLARES AT 0151Z, 0508Z, 0849Z AND 1722Z. THE X-RAY BACKGROUND HAS BEEN HIGH AND VARIABLE MOST OF THE DAY. SUNSPOTS IN REGION 807 CONTINUE TO INCREASE IN NUMBER AND MAGNETIC CONFIGURATION CONTINUES TO BECOME MORE COMPLEX AND WITH STEEPER GRADIENTS. PORTIONS OF THE PLAGE ARE ALMOST CONTINUALLY AT FLARE BRIGHTNESS. RADIO EMISSION OF TYPE III AND V HAS OCCURRED SINCE 1900Z.

NEW REGION 808 (S25W05) HAS A SMALL BRIGHT PLAGE AND THREE SMALL SPOTS AND IS DEVELOPING RAPIDLY. NEW REGION 809 (N20W68) IS FAINTER AND WITH ONLY VERY SMALL SPOTS. SMALL SPOTS REPORTED IN THE TRAILING PORTION OF REGION 807 MAY REPRESENT ANOTHER NEW GROUP. ADDITIONAL OBSERVATIONS OF THIS AREA ARE NEEDED BEFORE ASSIGNING A REGION NUMBER.

IB. PRESENT TRENDS OF EVOLUTION IN REGION 807 INDICATE THAT MAJOR EVENTS ARE LIKELY DURING THE FORECAST PERIOD. SHOULD A CLASS-X EVENT OCCUR ON THE THIRD DAY, A FLARE-INDUCED MAGNETIC STORM IS POSSIBLE.

II. THE GEOMAGNETIC FIELD HAS VARIED FROM SLIGHTLY ACTIVE TO QUIET DURING THE PAST 24 HOURS. SLIGHTLY UNSETTLED CONDITIONS ARE LIKELY DURING NIGHT TIME HOURS AND GENERALLY QUIET CONDITIONS DURING DAYLIGHT DURING THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 16-18 APRIL

CLASS M 80/80/80

CLASS X 25/25/30

PROTON 10/15/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 APRIL 86

PREDICTED 16-18 APRIL 90/92/94

90-DAY MEAN 15 APRIL 79

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 14 APRIL 09

ESTIMATED AFR/AP 15 APRIL 10/12

PREDICTED AFR/AP 16-18 APRIL 12/15 - 12/15 - 12/15

SOLTERWARN

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RUHHBQA/DCA PAC/PHION