

HFUS 1 BOU 140530

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 104A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 14 APRIL 1977

IA. SOLAR ACTIVITY IS AT A MODERATE LEVEL. REGION 807 (S20E58)
PRODUCED AN IMPORTANCE 2F FLARE WITH AN M2 X-RAY BURST AT 132334 UT.
CONTINUED SLOW GROWTH AND INCREASED COMPLEXITY IN REGION 807 HAS
BEEN REPORTED AND ADDITIONAL ENERGETIC ACTIVITY IS EXPECTED. THE
REST OF THE DISK AND LIMBS ARE QUIET.

IB. REGION 807 WILL PRODUCE FREQUENT "C" AND SUB "C" CLASS X-RAY
BURST WITH OCCASIONAL CLASS M X-RAY BURST INTERSPERSED.

II. THE GEOMAGNETIC FIELD IS QUIET TO OCCASIONALLY UNSETTLED. NO
CHANGE IS EXPECTED.

III. EVENT PROBABILITIES 14 APRIL - 16 APRIL

CLASS M 50/60/60

CLASS X 20/20/20

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 APRIL 82

PREDICTED 14-16 APRIL 85/87/89

90-DAY MEAN 13 APRIL 79

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 12 APRIL 06

ESTIMATED AFR/AP 13 APRIL 05/04

PREDICTED AFR/AP 14-16 APRIL 05/07 - 10/10 - 10/10

SOLTERWARN

BT

HFUS 1 BOU 141500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 104-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 14 APRIL 1977

IA. SOLAR ACTIVITY CONTINUES AT A MODERATE LEVEL WITH A CLASS M3
FLARE AT 0531Z. NO OPTICAL OBSERVATIONS HAVE BEEN RECEIVED BUT THE
FLARE SOURCE IS SURELY REGION 807 (S20E47). IMPORTANT GROWTH
HAS OCCURRED AMONG SUNSPOTS IN THE INTERIOR OF THIS EAC GROUP.
THERE MAY BE A DEVELOPING DELTA CONFIGURATION.

IB. ACTIVITY WILL REMAIN MODERATE FOR THIS PERIOD.
CLASS M FLARES MAY OCCUR DAILY WITH MORE FREQUENT CLASS C EVENTS.
FURTHER REGION GROWTH MAY RAISE THE CHANCE OF CLASS X AND
PROTON EVENTS.

II. THE GEOMAGNETIC FIELD IS QUIET. QUIET TO SLIGHTLY UNSETTLED
CONDITIONS ARE EXPECTED DURING THIS FORECAST PERIOD. THE CHANCE
OF FLARE-INITIATED MAGNETIC STORM IS SLIGHT BUT INCREASING.

III. EVENT PROBABILITIES 14 - 16 APRIL

CLASS M 60/60/60

CLASS X 20/20/20

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 APRIL 82

PREDICTED 14 - 16 APRIL 85/87/89

90-DAY MEAN 13 APRIL 79

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 12 APRIL 06

ESTIMATED AFR/AP 13 APRIL 05/04

PREDICTED AFR/AP 14 - 16 APRIL 05/07 - 10/10 - 10/10

SOLTERWARN

BT

HFUS 1 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 104

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 14 APRIL 1977

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. FLARES DURING THE
PAST 24 HOURS HAVE BEEN: C-7 AT 13/2218Z, M-2 AT 2334Z, M-3 AT
0531Z AND C-1 AT 1616Z. ADDITIONAL SPOT GROWTH IN REGION 807
(S19E41) REPRESENTS A THIRD BIPOLAR FLUX SYSTEM INTERACTING WITH
THE TWO ALREADY IN COLLISION. STEEP GRADIENTS ARE PRESENT AT TWO
LOCATIONS ALONG THE HIGHLY CONVOLUTED NEUTRAL LINE. SPOT AREA AND
RATE OF GROWTH ARE STILL BELOW VALUES ASSOCIATED WITH GREAT ACTIVITY.
IB. FURTHER GROWTH OF REGION 807 WILL GIVE DISTINCT CHANCE FOR
CLASS X AND PROTON EVENT. NO OTHER REGIONS OF SIGNIFICANCE ARE
EXPECTED.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED TODAY.
UNSETTLED CONDITIONS ARE EXPECTED. PARTICLES FROM AN EAST-LIMB
EVENT COULD ARRIVE DURING THIS FORECAST PERIOD AND GIVE SOME ACTIVE
PERIODS. A MAGNETIC STORM IS POSSIBLE SHOULD A CLASS X EVENT OCCUR.

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 - 12/15

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