

NNNNQQVRRVTTVWWVYYUU

KBOU

HFUS 1 BOU 150600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 105A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 15 APR 1974

IA. SOLAR ACTIVITY REMAINS MODERATE. REGION 375 (S12W55) REMAINS
COMPLEX AND IS CONTINUING TO GROW IN WHITE LIGHT. THIS REGION HAS
PRODUCED AN AVERAGE OF ONE SUBFLARE EACH HOUR FOR THE PAST 8 HOURS
AND HAS PRODUCED TWO CLASS M FLARES IN THE PAST 24 HOURS. REGION 379
(S15W34) ALSO CONTINUES GROWTH AND APPEARS TO BE INTERACTING WITH
REGION 375.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH FOR THE NEXT
72 HOURS. INTERMITTENT CLASS M FLARES AND POSSIBLE OCCASIONAL CLASS
X FLARES ARE EXPECTED FROM REGION 375. ENERGETIC ACTIVITY FROM
REGION 379 IS LIKELY IF GROWTH CONTINUES.

II. THE GEOMAGNETIC FIELD REMAINS QUIET. A RECURRENT MINOR STORM IS
EXPECTED LATE 16 APRIL OR EARLY 17 APRIL.

III. EVENT PROBABILITIES 15-17 APRIL

CLASS M 90/90/90

CLASS X 30/30/30

PROTON 20/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 APRIL 116

PREDICTED 15-17 APRIL 115/110/105

90-DAY MEAN 14 APRIL 82

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 APRIL 05

ESTIMATED AFR/AP 14 APRIL 04/05

PREDICTED AFR/AP 15-17 APRIL 10/11-20/24-35/51

SOLTERWARN

SPAN

BT

NNNN

KBOU

HFUS 1 BOU 151400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 105B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 15 APRIL 1974

IA. SOLAR ACTIVITY CONTINUES AT A MODERATE LEVEL, WITH CONTINUED
GROWTH IN REGIONS 375 (S11W60) AND 379 (S15W39). THE MOST SIGNIFICANT
EVENTS HAVE BEEN A SUB-BRILLIANT X-RAY CLASS M1 AT 0526Z AND A ONE
NORMAL M3 AT 0829Z IN RGN 375, AND A SUB-BRILLIANT M2 AT 0945Z IN
REGION 379.

IB. A MODERATE TO HIGH LEVEL OF ACTIVITY IS ANTICIPATED FOR THE
NEXT THREE DAYS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TODAY, AND IS EXPECTED
TO REMAIN QUIET UNTIL 16 APRIL WHEN A RECURRENT MINOR STORM
WILL COMMENCE

III. EVENT PROBABILITIES 15 APRIL - 17 APRIL

CLASS M 90/90/90

CLASS X 30/30/30

PROTON 20/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 APRIL 116

PREDICTED 15 APRIL - 17 APRIL 115/110/105

90-DAY MEAN 14 APRIL 82

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 13 APRIL 05

ESTIMATED AFR/AP 14 APRIL 04/05

PREDICTD AFR/AP 15 APRIL - 17 APRIL 10/11 - 20/24 - 35/51

SOLTERWARN

SPAN

BTNN

KBOU

HXUS 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 1974.

IA. SOLAR ACTIVITY HAS REMAINED AT A MODERATE LEVEL AND HAS INCREASED SINCE YESTERDAY, WITH DYNAMIC CHANGES OCCURRING OVER THE WESTERN HALF OF THE DISK. REGION 375 (S12W68), AN "F-TYPE" GROUP WITH A COMPLEX BETA-GAMMA MAGNETIC CONFIGURATION, HAS BEEN THE SOURCE OF THREE ONE NORMAL FLARES, NUMEROUS SUBFLARES, FIVE EVENTS EXCEEDING LOW CLASS M X-RAY THRESHOLDS, AND AN IMPORTANCE-3 SHORT WAVE FADE AT 0829Z. A NEW REGION 383 (S08W66) EMERGED JUST 4 DEGREES NORTH OF THE CENTROID OF RGN 375 AND HAS DEVELOPED INTO A "D-TYPE" GROUP WITH A DELTA MAGNETIC CONFIGURATION IN THE FOLLOWER. TOGETHER, THE 375/383 COMPLEX CONTAINS OVER 100 SUNSPOTS COVERING MORE THAN 1000 MILLIONTHS OF A SOLAR HEMISPHERE.

RAPID GROWTH HAS ALSO OCCURRED IN RGN 279 (S13W47) NOW A "D-TYPE" GROUP WITH A DELTA CONFIGURATION IN THE FOLLOWER. A SUB-BRILLIANT AT 0945Z AND A SUB-NORMAL AT 1312Z IN THIS REGION BOTH EXCEEDED CLASS M X-RAY THRESHOLDS AND PRODUCED IMPORTANCE-3 SHORT WAVE FADES. NO MAJOR CENTIMETRIC OR DEKAMETRIC RADIO BURSTS HAVE ACCOMPANIED TODAY'S ACTIVITY. TWO LARGE BUSHY FILAMENTS SOUTHEAST OF THESE ACTIVE CENTERS HAVE DISAPPEARED ENTIRELY SINCE YESTERDAY. TWO SMALL NEW REGIONS HAVE EMERGED IN THE NORTHWEST QUADRANT, 381 (N12W77) AND 382 (N09W63).

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH FOR THE NEXT 72 HOURS. THE RGN 375/383 COMPLEX AND RGN 379 HAVE STRONG ENERGETIC POTENTIAL AS WELL AS FAVORABLE GEOMETRY FOR A NEAR-EARTH PROTON EVENT. MORE CLASS M X-RAY EVENTS ARE LIKELY, AND CLASS X ACTIVITY IS POSSIBLE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE ONSET OF A MINOR GEOMAGNETIC STORM IS ANTICIPATED LATE TOMORROW, WITH STORMY TO ACTIVE CONDITIONS CONTINUING FOR THE DURATION OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 16-18 APRIL

CLASS M 90/90/90

CLASS X 30/30/30

PROTON 20/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 APRIL 126

PREDICTED 16-18 APRIL 117/108/100

90-DAY MEAN 15 APRIL 82

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 14 APRIL 05

ESTIMATED AFR/AP 15 APRIL 03/04

PREDICTED AFR/AP 16-18 APRIL 15/17 - 35/51 - 30/42

SOLTERWARN

SPAN