

HFUS 1 BOU 160600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 106A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 160600Z APRIL 1974

IA. SOLAR ACTIVITY REMAINS MODERATE. REGIONS 375 (S12W72), 379
(S13W51) AND 383 (S08W70) REMAIN THE REGIONS OF INTEREST WITH FEW
CHANGES REPORTED SINCE 2200Z. REGIONS 375 AND 379 CONTINUE TO
DEVELOP.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE FOR AT LEAST THE
NEXT 48 HOURS. ENERGETIC EVENTS ARE DEFINITELY POSSIBLE, AS IS AN
OCCASIONAL X-EVENT.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND IS EXPECTED TO BECOME
ACTIVE LATER TODAY OR TOMORROW AND BE ACTIVE TO MINOR STORM.
CONDITIONS THEREAFTER.

III. EVENT PROBABILITIES NO CHANGE

IV. OTTAWA 10.7 CM FLUX NO CHANGE

V. GEOMAGNETIC A INDICES NO CHANGE

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HFUS 1 BOU 161400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 106B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 16 APRIL 1974

IA. RGN 379 (S13W54) HAS BEEN THE MOST DYNAMIC DISK FEATURE DURING THE PAST 8 HOURS. RGN 379 CONTINUED TO GROW SLOWLY WHILE PRODUCING SEVERAL ENERGETIC EVENTS, THE LARGEST OF WHICH WAS A 1B FLARE THAT REACHED MAJOR EVENT CRITERIA AT 16/0741 U.T. THE OTHER DISK FEATURES ARE LITTLE CHANGED AND HAVE PRODUCED ONLY AN OCCASSIONAL FLARE DURING THE PAST 8 HOURS.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A MODERATE LEVEL UNTIL 379 TRANSITS THE WEST LIMB IN ABOUT THREE DAYS.

II. THE GEOMAGNETIC FIELD IS QUIET BUT THE RECURRENCE OF A MINOR STORM IS EXPECTED TODAY. THIS STORM SHOULD PERSIST FOR SEVERAL DAYS.

III. EVENT PROBABILITIES 16 APRIL - 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 APRIL - 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 APRIL - 18 APRIL 15/17 - 35/51 - 30/40

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 106

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 16 APRIL 1974

IA. SOLAR ACTIVITY CONTINUES AT A MODERATE LEVEL. REGION 379 (S13W60) HAVING ASSUMED THE ROLE AS DOMINATING DISK FEATURE HAS PRODUCED TWO IMPORTANCE 1B FLARES AS WELL AS NUMEROUS LESSER FLARES. THE FIRST 1B FLARE OCCURRED AT 16/0735 U.T. AND PRODUCED A CLASS X1 X-RAY EVENT IN ADDITION TO A 170 FLUX UNIT BURST AT 2695 MHZ. THE SECOND 1B FLARE WAS REPORTED AT 16/1616 U.T. AND WAS SMALLER IN BOTH X-RAY EMISSION (CLASS M6) AND 2695 MHZ BURST SIZE (112 F.U.) REGION 379 RETAINS ITS COMPLEXITY AS MT WILSON CONTINUES TO REPORT A DELTA CONFIGURATION. THE SPOT GROUP SHOWS SLOW GROWTH ALTHOUGH THE H-ALPHA PLAGE IS LITTLE CHANGED. REGION 375 (S12W80) ALSO RETAINS ITS COMPLEXITY BUT LIMB PROXIMITY PRECLUDES A FINITE ANALYSIS. A NEW REGION AT S12W17 WAS DESIGNATED NUMBER 384. SO FAR THIS REGION IS ONLY A SIMPLE ALPHA TYPE WITH TWO SMALL SPOTS. OTHER CHANGES ON THE DISK HAVE BEEN SMALL AND INSIGNIFICANT.

IB. SOLAR ACTIVITY WILL CONTINUE AT A MODERATE LEVEL FOR THE NEXT 48 HOURS.

II. A RECURRENT GEOMAGNETIC STORM WHICH WAS DUE BACK TODAY IS STILL EXPECTED. ACTIVE TO MINOR STORM CONDITIONS SHOULD BEGIN LATE TODAY OR EARLY ON THE 17TH AND PERSIST FOR SEVERAL DAYS.

III. EVENT PROBABILITIES 17 - 19 APRIL

CLASS M 90/90/90

CLASS X 30/30/30

PROTON 20/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 APRIL 115

PREDICTED 17 - 19 APRIL 105/98/93

90-DAY MEAN 16 APRIL 82

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 APRIL 02

ESTIMATED AFR/AP 16 APRIL 02/03

PREDICTED AFR/AP 17 -19 APRIL 35/51 - 30/42 - 25/33

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