

HFUS 1 BOU 140600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 104A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 14 APRIL 1974

IA. SOLAR ACTIVITY HAS DECREASED SOMEWHAT DURING THE PAST 8 HOURS.
REGION 375. (S13W40) HAS PRODUCED SEVERAL NON-ENERGETIC FLARES BUT
THE INTENSITY OF THE ACTIVITY HAS DECREASED.

IB. SOLAR ACTIVITY WILL CONTINUE AT A MODERATE LEVEL DURING THE
NEXT 8 HOURS WITH REGION 375 BEING THE MAIN SOURCE OF ACTIVITY.

II. THE GEOMAGNETIC FIELD IS QUIET AND WILL REMAIN QUIET DURING
THE NEXT 8 HOURS.

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 141400

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 104B

JOINTHAFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1400Z 14 APRIL 1974

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 8 HOURS. REGION 375 (S12W45) HAS PRODUCED FREQUENT SMALL FLARES, MOST OF THEM OF MODERATE CLASS C X-RAY INTENSITY. ONE OF THESE EVENTS, A SMALL ONE-NORMAL FLARE AT 14/0639Z, REACHED CLASS M2 INTENSITY, AND A SUBNORMAL FLARE AT 14/1113Z REACHED CLASS M1 INTENSITY. NO SIGNIFICANT RADIO BURSTS HAVE BEEN REPORTED WITH THESE EVENTS. REGION 375 HAS SHOWN SOME TENDENCY TOWARD DECAY, ESPECIALLY IN THE INTERMEDIATE SECTION; HOWEVER, THIS REGION REMAINS IMPRESSIVE AND COMPLEX. REGION 377 (S04W77) HAS PRODUCED OCCASIONAL MINOR SURGES, WHILE REGION 379 (S13W27) HAS DEVELOPED SLIGHTLY AND NOW CONTAINS A D-TYPE SPOT GROUP.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH DURING THE FORECAST PERIOD, WITH REGION 375 PRODUCING SPORADIC CLASS M FLARES. THERE IS A SIGNIFICANT CHANCE OF A MAJOR FLARE FROM THIS REGION.

II. THE GEOMAGNETIC FIELD HAS REMAINED RELATIVELY QUIET DURING THE PAST EIGHT HOURS. A RECURRENT DISTURBANCE IS EXPECTED TO BEGIN ON 16 APRIL.

III. EVENT PROBABILITIES -14 APRIL - 16 APRIL

CLASS M 95/90/90

CLASS X 30/25/25

PROTON 20/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 APRIL 102

PREDICTED 14 APRIL - 16 APRIL 100/98/96

90-DAY MEAN 13 APRIL 81

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 12 APRIL 02

ESTIMATED AFR/AP 13 APRIL 05/06

PREDICTED AFR/AP 14 APRIL - 16 APRIL 05/06 - 08/09 - 20/24

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HFUS BOU 142205

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 104

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 14 APRIL 1974

I. SOLAR ACTIVITY HAS REMAINED MODERATE DURING THE PAST 24 HOURS. REGION 375 (S11W51) HAS PRODUCED MOST OF THE RECENT ACTIVITY. THE MOST ENERGETIC EVENT REPORTED RECENTLY CONSISTED OF A CLASS M1 IMPORTANCE ONE-NORMAL FLARE AT 14/0639Z. NUMEROUS CLASS C SUBFLARES, SOME OF THEM APPROACHING CLASS M INTENSITY, HAVE OCCURRED IN REGION 375. THIS REGION RETAINS ITS COMPLEX, THREATENING APPEARANCE.

ACCORDING TO THE MOUNT WILSON OBSERVATORY, A DELTA CONFIGURATION EXISTS IN THE INTERMEDIATE SPOTS NEAR THE CENTER OF THE SPOT GROUP, AND ANOTHER WEAKER DELTA CONFIGURATION IS LOCATED IN THE NORTHERN INTERMEDIATE SPOTS. WHILE SOME DECAY HAS OCCURRED IN THE CENTRAL INTERMEDIATE AND TRAILER SPOTS, NEW SPOTS HAVE DEVELOPED NORTHEAST OF THE LEADER. ENHANCED PLAGE, ARCH FILAMENTS, AND OTHER ABSORPTION FEATURES ARE VISIBLE IN H-ALPHA, ESPECIALLY IN THE AREA OF NEW DEVELOPMENT NORTHEAST OF THE LEADER WHERE NEW MAGNETIC FIELDS ARE EMERGING. IT NOW APPEARS THAT REGION 375 IS RE-STRUCTURING, AND THE PATTERN THAT EMERGES DURING THE NEXT 24 HOURS WILL DETERMINE THE REGION'S POTENTIAL FOR PRODUCING MAJOR FLARES. REGION 379 (S15W30) HAS DEVELOPED SLIGHTLY IN H-ALPHA AND WHITE LIGHT. THIS REGION'S FIBRIL STRUCTURE NOW IS INTERACTING WITH FIBRILS NEAR THE EASTERN END OF REGION 375, AND THESE TWO REGIONS SHOULD BE WATCHED CLOSELY FOR ADDITIONAL INTERACTION. REGION 377 (S04W85), NOW APPROACHING WEST LIMB, HAS PRODUCED MINOR SURGE ACTIVITY. A SMALL UNIMPRESSIVE REGION, PROBABLY THE REMAINS OF OLD REGION 368, HAS CROSSED THE EAST LIMB AND NOW IS LOCATED AT S08E77.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH DURING THE FORECAST PERIOD. RESTRUCTURING IN REGION 375 SUGGESTS THAT MAJOR FLARES MAY STILL OCCUR THERE, AND SMALL EVENTS ARE EXPECTED TO OCCUR RELATIVELY FREQUENTLY.

II. THE GEOMAGNETIC FIELD HAS REMAINED QUIET DURING THE PAST 24 HOURS. A RECURRENT MINOR STORM IS EXPECTED TO BEGIN 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

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