

HFUS 3 BOU 090530

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 099A

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 09 APRIL 1978

IA. SOLAR ACTIVITY WAS MODERATE DURING THE PAST EIGHT HOURS WITH AN M1 X-RAY EVENT WHICH BEGAN AT 09/0443Z AND MAXED AT 09/0457Z ALONG WITH SEVERAL LARGE C-CLASS X-RAY BURSTS THROUGHOUT THE PERIOD. RADIO ACTIVITY WAS GENERALLY WEAK. REGIONS 1057 (N19W25) AND 1059 (N20W69) WERE RESPONSIBLE FOR MOST OF THE ACTIVITY. REGION 1063 (N16E10) HAS DISPLAYED PLAGE FLUCTUATIONS TO INTENSITY 4, AND A PORTION OF ITS NEUTRAL LINE FILAMENT IS ACTIVE. THERE IS A STRONG ASR AT NE 15. THE REST OF THE DISK AND LIMBS WAS UNCHANGED DURING THIS PERIOD.

IB. SOLAR ACTIVITY WILL BE MODERATE TO POSSIBLY HIGH DURING THE REMAINDER OF THE FORECAST PERIOD WITH FAIRLY FREQUENT ENERGETIC X-RAY ACTIVITY EXPECTED.

II. THE GEOMAGNETIC FIELD WAS QUIET UNTIL 09/0430Z WHEN UNSETTLED TO SLIGHTLY ACTIVE CONDITIONS BEGAN. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED THROUGH THE REMAINDER OF THE ZULU DAY WITH FLARE-INDUCED ACTIVE TO MINOR STORM CONDITIONS EXPECTED ON 10-11 APRIL.

III. EVENT PROBABILITIES 09 APRIL - 11 APRIL

CLASS M 90/90/80

CLASS X 40/40/40

PROTON 40/40/40

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 APRIL 148

PREDICTED 09-11 APRIL 150/152/154

90-DAY MEAN 08 APRIL 134

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 07 APRIL 04

ESTIMATED AFR/AP 08 APRIL 04/06

PREDICTED AFR/AP 09-11 APRIL 15/15 - 20/25 - 20/20

SOLTERWARN

BT

HFUS 3 BOU 091500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 099-B

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 09 APR 1978

IA. THE MODERATE LEVEL OF SOLAR ACTIVITY CONTINUES. X-RAY
BACKGROUND LEVELS ARE RUNNING AT C-2 LEVEL AND THE 1400Z OTTAWA
10 CM FLUX IS UP TO 160. MOST OF THE EVENTS ARE COMING FROM
REGION 1057 (N20E30), 1059 (N20W73) AND 1070 (N16E67). THESE
REGIONS ARE BRIGHTEST ON THE DISK AND HAVE BEEN REPORTED AS
MAGNETIC BETA-GAMMA. A NEW REGION APPEARS TO BE ROTATING ON TO
THE DISK BEHIND 1070 NEAR NE15, PROBABLY RETURNING REGION 1035.

IB. SOLAR ACTIVITY SHOULD CONTINUE AT A MODERATE LEVEL. ENERGETIC
EVENTS ARE POSSIBLE FROM ANY OF THE REGIONS MENTIONED IN IA.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET. THE EX-
PECTED SUDDEN-COMMENCEMENT AND SUBSEQUENT MAGNETIC DISTURBANCE
RESULTING FROM ACTIVITY IN 1057 HAS NOT YET BEEN OBSERVED. THESE
EVENT SHOULD OCCUR WITHIN THIS UT DAY.

III. EVENT PROBABILITIES 09 - 11 APR

CLASS M 90/90/80

CLASS X 40/40/40

PROTON 40/40/40

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 APR 148

PREDICTED 09 - 11 APR 162/165/167

90-DAY MEAN 08 APR 134

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 07 APR 04

ESTIMATED AFR/AP 08 APR 04/06

PREDICTED AFR/AP 09 - 11 APR 15/15 - 25/25 - 30/30

SOLTERWARN

BT

HFUS 1 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 099

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 09 APR 1978

IA. ALTHO THE MOST SIGNIFICANT EVENT DURING THE PAST 24 HOURS
WAS THE M-1 AT 09/0443Z, SOLAR ACTIVITY REMAINS MODERATE WITH
SMALL C-CLASS EVENTS OCCURRING HOURLY. MOST OF THESE EVENTS ARE
WITHOUT OPTICAL CONFIRMATION DUE TO LIMITED OBSERVATIONS. REGIONS
1057 (N20W34), 1059 (N20W77), AND 1070 (N18E69) REMAIN THE MOST
ACTIVE. REGION 1059 IS GROWING AS IT APPROCHES WEST LIMB. GROWTH
IS OCCURRING IN THE LEADERS OF 1057 WHILE THE TRAILERS ARE REPORTED
AS FRAGMENTING. REGION 1070 IS REPORTED AS E TYPE, BUT MAY BE TWO
SEPARATE REGIONS. ACTIVITY CONTINUES ON THE EAST LIMB BEHIND 1070.

IB. THE MODERATE LEVEL OF SOLAR ACTIVITY IS EXPECTED TO CONTINUE
THRU THE FORECAST PERIOD WITH A HIGH PROBABILITY OF ENERGETIC EVENTS
FROM REGIONS 1057 AND 1059 AND FROM THE NORTH EAST LIMB AREA.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET. CONDITIONS ARE
EXPECTED TO BECOME DISTURBED THRU THE NEXT 12 HOURS, AS A RESULT OF
THE PREVIOUS MENTIONED ACTIVITY IN REGION 1057

III. EVENT PROBABILITIES 10 - 12 APR

CLASS M 90/95/95

CLASS X 40/40/40

PROTON 40/40/40

PCAF PCAF

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 APR 156

PREDICTED 10 - 12 APR 158/160/162

90-DAY MEAN 09 APR 135

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 APR 04

ESTIMATED AFR/AP 09 APR 06/08

PREDICTED AFR/AP 10 - 12 APR 25/25 - 30/30 - 25/25

SOLTERWARN

BT