

HFUS 1 BOU 210600

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 081A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 21 MARCH 1976

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST EIGHT HOURS.

A SUB BRIGHT FLARE WAS OBSERVED AT 21/0128Z IN REGION 688(N05W19).
THE FLARE WAS A C-9. REGION 688 HAS CONTINUED TO GROW. CULGOORA
REPORTS A RADIO NOISE SOURCE FROM BEYOND THE EAST LIMB AT ABOUT
S05-10.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT THE PRESENT LEVEL
WITH A FEW CLASS C FLARES AND POSSIBLY A CLASS M FLARE FROM REGION
688.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST EIGHT HOURS.
IT IS EXPECTED THE FIELD WILL CONTINUE IN A QUIET CONDITION DURING
THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 21 MARCH-23 MARCH

CLASS M 50/50/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 MARCH 86

PREDICTED 21-23 MARCH 85/84/83

90-DAY MEAN 20 MARCH 73

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 MARCH 11

ESTIMATED AFR/AP 20 MARCH 08/09

PREDICTED AFR/AP 21-23 MARCH 05/05 - 04/05 - 06/06

SOLTERWARN

BT

FUS 1 BOU 211500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 081B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1500Z 21 MARCH 1976

IA. SOLAR ACTIVITY INCREASED DURING THE PAST 12 HOURS AS REGION 688
(N04W28) PRODUCED NUMEROUS SUBFLARES. X-RAY BURSTS OF M4 (08121Z)
AND M1 (1307Z) AND SIX OF CLASS C WERE RECORDED. SHORT-WAVE ~~FADeS~~
TO IMPORTANCE 3 ACCOMPANIED THE CLASS M EVENTS. GROWTH CONTINUES
IN THE COMPLEX TYPE E SPOT GROUP. NO SIGNIFICANT CHANGE HAS OCCURRED
IN THE SMALL SIMPLE REGION 689 (S01E35) ~~E20~~.

IB. CONTINUED SUBFLARE ACTIVITY IS EXPECTED WITH X-RAY BURSTS TO M7.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET AND SHOULD REMAIN SO FOR
THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 21-23 MAR

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 MAR 86

PREDICTED 21-23 MAR 93/95/95

90-DAY MEAN 20 MAR 73

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 MAR 08

PREDICTED AFR/AP 21-23 MAR 05/05 - 04/05 - 06/06

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HFUS 1 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 081

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 21 MARCH 1976

IA. SOLAR ACTIVITY BECAME MODERATE TODAY AS REGION 688 (N05W33)
PRODUCED 16 SUBFLARES, THREE WITH IMPORTANT TERRESTRIAL EFFECTS -
M4/0752Z, M1/1247Z AND M2/1805-1848Z. SUNSPOT GROWTH IN THE LEADING
(WESTERN) PORTION OF THE TYPE-E GROUP HAS CREATED A DELTA CONFIGUR-
ATION. NEARLY ALL THE EVENTS WERE INVOLVED IN THE HIGH MAGNETIC
GRADIENT IN THIS AREA. OTHER PORTIONS OF THE REGION HAVE DECAYED.
NO FURTHER GROWTH HAS BEEN REPORTED IN THE PAST 6 HOURS. REGION 689
(S08W24) IS INSIGNIFICANT WITH A TINY SINGLE SPOT.

IB. CONTINUED M-FLARE AND FREQUENT CLASS-C FLARES ARE EXPECTED.
ACTIVITY MAY PEAK WITHIN THE NEXT 12 HOURS UNLESS ADDITIONAL SUN-
SPOTS EMERGE. ANY FURTHER GROWTH WOULD BRING A DISTINCT CHANCE OF
PROTON EMISSION AND CLASS-X FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS.
VERY QUIET CONDITIONS SHOULD CONTINUE FOR THE NEXT TWO DAYS. A MAJOR
INTERPLANETARY SECTOR BOUNDARY IS DUE TO PASS THE EARTH SOMETIME
DURING THE THIRD DAY. THE PROXIMITY OF REGION 688 TO THE SOLAR SOURCE
OF THIS BOUNDARY MAKES THE TIMING AND EFFECT OF THIS BOUNDARY
UNCERTAIN. UNSETTLED CONDITIONS ARE PREDICTED BUT STORM CONDITIONS
ARE POSSIBLE. ACTIVE CONDITIONS ARE IN THE FORECAST FOR 25 MARCH.
A MAJOR FLARE IN REGION 688 COULD INTRODUCE ACTIVE CONDITIONS EARLIER.

III. EVENT PROBABILITIES 22 MARCH - 24 MARCH

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 MARCH 92

PREDICTED 22-24 MARCH 95/95/92

90-DAY MEAN 21 MARCH 73

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 MARCH 08

ESTIMATED AFR/AP 21 MARCH 05/05

PREDICTED AFR/AP 22-24 MARCH 04/05 - 06/06 - 15/15

SOLTERWARN

BT