

HFUS 1 BOU 280550
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 088A
JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 28 MARCH 1976

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST EIGHT HOURS. TWO NON ENERGETIC SUBFLARES FROM REGION 690 (S08E36) AND TWO NON ENERGETIC SUBFLARES FROM REGION 691 (N06W42) IS ALL THAT HAS BEEN OBSERVED.

IB. SOLAR ACTIVITY WILL CONTINUE AT ABOUT THE SAME LEVEL, SMALL SUBFLARES FROM REGIONS 690 AND 691. REGION 690 IS CAPABLE OF PRODUCING MORE ENERGETIC ACTIVITY BUT THE REGION HAS DECREASED IN SIZE AND ITS ACTIVITY HAS ALSO DECREASED.

II. THE MINOR GEOMAGNETIC STORM CONTINUES AND IT IS EXPECTED TO CONTINUE DURING THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 28 MARCH - 30 MARCH

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 MARCH 86

PREDICTED 28-30 MARCH 85/85/84

90-DAY MEAN 27 MARCH 74

V. GEOMAGNETIC A. INDICES

OBSERVED FREDERICKSBURG 26 MARCH 90

ESTIMATED AFR/AP 27 MARCH 30/37

PREDICTED AFR/AP 28-30 MARCH 25/25 - 22/25 - 30/35

SOLTERWARN

BT

HFUS 1 BOU 281500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO
SDF NUMBER 088B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 28 MARCH 1976

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 17 HOURS.
AN M1 X-RAY EVENT OCCURRED AT 28/0558Z WITH ACCOMPANYING SHORTWAVE
FADES AND SUDDEN PHASE ANOMALIES. THIS X-RAY EVENT WAS ASSOCIATED
WITH A SUB-BRILLIANT FLARE IN REGION 690 (S08E30). SEVERAL SMALL
C-CLASS SUBFLARES HAVE BEEN NOTED IN REGION 691 (N06W48) AS WELL.
IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT CURRENT LEVELS THROUGH
THE FORECAST PERIOD. C-CLASS SUBFLARES MAY BE EXPECTED FREQUENTLY
WITH THE POSSIBILITY OF AN OCCASIONAL SMALL M-CLASS FLARE FROM
REGION 690. THIS REGION RETAINS SOME POTENTIAL FOR A MAJOR ENERGETIC
FLARE (OF THE X-CLASS VARIETY).

II. THE GEOMAGNETIC FIELD HAS BECOME GRADUALLY QUIETER DURING THE
PAST 17 HOURS. ACTIVITY LEVELS ARE NOW BELOW MINOR MAGNETIC STORM
THRESHOLDS. THE FIELD IS EXPECTED TO CONTINUE THIS TREND TOWARD
QUIETER LEVELS.

III. EVENT PROBABILITIES 28-30 MARCH 1976

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 MARCH 86

PREDICTED 28-30 MARCH 87/87/86

90-DAY MEAN 27 MARCH 74

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 MARCH 90

ESTIMATED AFR/AP 27 MARCH 30/39

PREDICTED AFR/AP 28-30 MARCH 16/24 - 12/18 - 10/15

SOLTERWARN

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HFUS-MI BOU 282200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO.

SDF NUMBER 088

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 28 MARCH 1976

IA. SOLAR ACTIVITY WAS HIGH DURING THE PAST 24 HOURS. A ONE BRILLIANT FLARE OCCURRED IN REGION 690 (S08E26) AT 28/1929Z. X-RAY LEVELS BARELY REACHED X-CLASS CRITERIA AND 10 CENTIMETER CHANNELS PEAKED AT ABOUT 2000 FLUX UNITS ABOVE BACKGROUND. A HOST OF SUDDEN IONOSPHERIC DISTURBANCES WERE NOTED AND REPORTED. THIS EVENT SHOULD ONLY TEMPORARILY REDUCE REGION 690'S POTENTIAL FOR PRODUCING STILL OTHER MAJOR FLARES. AN M1 X-RAY BURST WAS ALSO REPORTED (COINCIDENTAL WITH A SUB-BRILLIANT FLARE IN REGION 690) AT 28/0558Z.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST PERIOD. FREQUENT C-CLASS FLARES AND OCCASIONAL M-CLASS FLARES MAY BE EXPECTED FROM REGION 690. IT IS POSSIBLE THAT TODAYS EVENT WILL CAUSE AN ENHANCEMENT OF HIGH ENERGY PROTON COUNTING LEVELS WITH A PROBABLE MAXIMUM NEAR 29/0600Z. A WEAK PCA IS POSSIBLE.

II. THE GEOMAGNETIC FIELD HAS BEEN MILDLY ACTIVE TO UNSETLED DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE MILDLY ACTIVE UNTIL 31 MARCH WHEN THE EFFECTS OF TODAYS XI FLARE MAY PUSH MAGNETIC ACTIVITY LEVELS INTO MAGNETIC STORM CATEGORIES.

III. EVENT PROBABILITIES 29 MARCH - 31 MARCH

CLASS M 75/75/75

CLASS X 10/15/25

PROTON 10/15/25

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 MARCH 89

PREDICTED 29-31 MARCH 89/89/88

90-DAY MEAN 28 MARCH 74

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 27 MARCH 30

ESTIMATED AFR/AP 28 MARCH 16/24

PREDICTED AFR/AP 29-31 MARCH 12/18 - 10/15 - 35/45

SOLTERWARN

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