

HFUS I 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

BT

HFUS-1 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 (COINCI-
DENTAL 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 TODAY'S 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 UNSETTLED
DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE MILDLY ACTIVE
UNTIL 31 MARCH WHEN THE EFFECTS OF TODAY'S X1 FLARE MAY PUSH MAG-
NETIC 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

BT