

HFUS 3 BOU 270530

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 117A

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0600Z 27 APRIL 1978

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 8 HOURS. REGION 1095 (N21E71) IS NOW AT LEAST A C-TYPE GROUP. LIMB ACTIVITY HAS BEEN NOTED ABOVE THE REGION. REGION 1083 (N15W53) HAD A SN FLARE AT 2139Z. REGION 1092 (N23E52) IS GROWING AND HAD TWO SN FLARES AT 2220Z AND 2305Z. THE LOCATION OF REGION 1082 (S31W55) PRODUCED A SF FLARE AT 2139Z. THE REST OF THE DISK/LIMB IS LITTLE CHANGED.

IB. SOLAR ACTIVITY SHOULD BE MODERATE.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE PAST 8 HOURS. CONDITIONS ARE EXPECTED TO REMAIN UNSETTLED FOR THE REST OF TODAY.

III. EVENT PROBABILITIES 27 APRIL - 29 APRIL

CLASS M 90/90/90

CLASS X 40/40/40

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 APRIL 165

PREDICTED 27-29 APRIL 168/172/175

90-DAY MEAN 26 APRIL 145

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 APRIL 16

ESTIMATED AFR/AP 26 APRIL 18/29

PREDICTED AFR/AP 27-29 APRIL 12/12 - 12/12 - 15/20

SOLTERWARN

BT

HFUS 3 BOU 271500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 117B

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 27 APRIL 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE. AN IMPULSIVE M-1 X-RAY
BURST AT 27/1014Z FROM AN UNKNOWN SOURCE WAS THE MOST ENERGETIC
EVENT. THE BOULDER OBSERVATORY REPORTS SIX REGIONS WITH SPOTS
THIS MORNING, AND REGIONS 1091 AND 1096 NO LONGER HAVE SPOTS.

IB. SOLAR ACTIVITY WILL REMAIN AT A MODERATE LEVEL.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED AND NO
CHANGE IS EXPECTED.

III. EVENT PROBABILITIES 27 APRIL - 29 APRIL

CLASS M 90/90/90

CLASS X 40/40/40

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 APRIL 165

PREDICTED 27-29 APRIL 168/172/175

90-DAY MEAN 26 APRIL 145

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 APRIL 16

ESTIMATED AFR/AP 26 APRIL 18/29

PREDICTED AFR/AP 27-29 APRIL 12/12 - 12/12 - 15/20

SOLTERWARN

BT

HFUS 1 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 117

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 27 APRIL 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE. REGION 1092 (N23E45) REMAINS THE MOST SIGNIFICANT REGION. 1092 HAS SHOWN VERY RAPID GROWTH THRU THE DAY AND SUB-FLARE PRODUCTION HAS BEEN HIGH. REGION IS A BETA-GAMMA-DELTA WITH A STRONG MAGNETIC GRADIENT. REGION 1095 (N23E64) HAS NOT BEEN ACTIVE. A PROMINENCE AT N20 MAY MARK THE RETURN OF OLD REGION 1057.

IB. SOLAR ACTIVITY WILL REMAIN MODERATE. REGION 1092 MAY PRODUCE AN X CLASS FLARE THIS PERIOD. THE RETURN OF OLD 1057 MAY INCREASE ENERGETIC EVENT PROBABILITIES.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. THE FIELD SHOULD REMAIN UNSETLED THRU THE FIRST DAY THEN INCREASE TO ACTIVE OR MINOR STORM LEVELS FOR THE REST OF THE PERIOD. THE EXPECTED DISTURBANCE IS THE RESULT OF A SECTOR PASSAGE AND A DISAPPEARING FILAMENT EARLY ON 27 APRIL.

III. EVENT PROBABILITIES 28-30 APRIL

CLASS M 90/90/90

CLASS X 40/40/40

PROTON 15/15/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 APR 170

PREDICTED 28-30 APR 172/174/178

90-DAY MEAN 27 APR 145

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 APR 19

ESTIMATED AFR/AP 27 APR 11/14

PREDICTED AFR/AP 28-30 APR 12/14 - 25/28 - 25/30

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