

MFUS 3 BOU 040430

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 124A

JOINT USAF/NDAE SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 04 MAY 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST SEVEN HOURS.
REGION 1092 (N20W39) HAS PRODUCED SEVERAL SMALL CLASS M FLARES.
REGIONS 1095 (N23W18), 1099 (S26E49) HAVE SHOWN SOME GROWTH AND
DEVELOPMENT BUT HAVE BEEN QUIET. REGION 1102 (N14E45) APPEARS
STABLE.

IB. SOLAR ACTIVITY WILL CONTINUE AT A MODERATE TO HIGH LEVEL.
ENERGETIC EVENTS CAN BE EXPECTED FROM REGION 1092 IN PARTICULAR
BUT ALL ARE CAPABLE OF PRODUCING ENERGETIC EVENTS.

II. THE GEOMAGNETIC FIELD WAS AT MINOR STORM LEVEL UNTIL ABOUT
0130Z WHEN IT BECAME MAJOR STORM LEVEL. THE FIELD HAS CONTINUED
AT THIS LEVEL FOR SEVERAL HOURS. IT IS EXPECTED THE LEVEL WILL
DROP TO MINOR STORM LEVEL AND REMAIN THERE FOR THE REST OF THE
DAY.

III. EVENT PROBABILITIES 04 MAY - 06 MAY

CLASS M 95/95/95

CLASS X 70/70/70

PROTON 50/60/60

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 MAY 179

PREDICTED 04-06 MAY 175/170/165

90-DAY MEAN 03 MAY 148

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 02 MAY 62

ESTIMATED AFR/AP 03 MAY 33/68

PREDICTED AFR/AP 04-06 MAY 30/40 - 20/20 - 10/15

SOLTERWARN

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HFUS 3 BOU 041500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 124B

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 04 MAY 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 15 HOURS WITH EVENTS OCCURRING IN REGIONS 1092 AND 1095. THESE TWO REGIONS ARE CONNECTED BY A COMMON NEUTRAL LINE AND FORM A MAJOR COMPLEX DOMINATING THE NORTHWEST QUADRANT OF THE SUN. SIGNIFICANT GROWTH OF SPOTS AND PENUMBRA HAS STRENGTHENED THE DELTA CONFIGURATION IN REGION 1092. REGION 1095 CONTINUES WITH A WEAK DELTA AND COMPLEX SPOTS.

IB. A MAJOR SOLAR EVENT IS EXPECTED TODAY.

II. A MAJOR MAGNETIC STORM IS IN PROGRESS, HAVING INCREASED FROM MINOR CONDITIONS LATE YESTERDAY. THIS STORM SHOULD DIMINISH LATE TODAY. UNSETLED CONDITIONS ARE EXPECTED TOMORROW. A MAJOR SOLAR EVENT TODAY COULD LEAD TO ANOTHER INCREASE IN MAGNETIC ACTIVITY BY THE THIRD DAY.

III. EVENT PROBABILITIES 04 MAY-06 MAY 1978.

CLASS M 95/95/95

CLASS X 70/70/70

PROTON 50/60/60

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX.

OBSERVED 3 MAY 179

PREDICTED 04 MAY-06 MAY 178/172/165

90 DAY MEAN 03 MAY 148

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 02 MAY 62

ESTIMATED AFR/AP 03 MAY 33/68

PREDICTED AFR/AP 04-06 MAY 50/60 20/20 10/15

BT

MFUS 1 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO
SDF NUMBER 124

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 4 MAY 1978

IA. SOLAR ACTIVITY HAS BEEN MODERATE. CLASS M1 FLARES OCCURRED AT 0150Z AND 0257Z IN REGION 1092 (N21W51) WHERE A STRONG DELTA CONFIGURATION HAS REDEVELOPED TODAY. NUMEROUS SMALL FLARES HAVE OCCURRED HERE AND IN NEARBY REGION 1095 (N22W24) WHICH IS ON A COMMON NEUTRAL LINE WITH 1092. REGION 1099 (S27E39) HAS FORMED A WEAK DELTA CONFIGURATION IN ITS CLASS E SPOT GROUP AND CONTINUES SLOW GROWTH. MINOR GROWTH CONTINUES IN REGION 1102 (N18E37) WHICH IS NOW CLASS D. A SMALL NEW REGION 1104 (N18E37) IS DEVELOPING MORE RAPIDLY IN THE PAST HOUR AND MAY FURTHER COMPLICATE THE 1092/1095 COMPLEX. MINOR SURGES ARE REPORTED AT NE LIMB.

IB. A MAJOR FLARE IS EXPECTED IN REGION 1092. PROTON EMISSION WILL OCCUR WITH THIS EVENT. A SIGNIFICANT ACTIVITY COMPLEX IS EXPECTED TO RETURN TO NE LIMB BY THE MIDDLE OF THIS FORECAST PERIOD.

II. A MAJOR MAGNETIC STORM WAS IN PROGRESS MOST OF THE DAY BUT HAS DIMINISHED TO UNSETTLED CONDITIONS AT THE TIME OF THIS REPORT. BRILLIANT AURORA WAS REPORTED OVER NEW ENGLAND LAST NIGHT. THE FIELD SHOULD REMAIN UNSETTLED WITH INTERMITTENT ACTIVE PERIODS THROUGHOUT THE NEXT THREE DAYS. THE EXPECTED MAJOR FLARE MIGHT INCREASE ACTIVITY BY THE THIRD DAY.

III. EVENT PROBABILITIES 05-07 MAY

CLASS M 95/95/95

CLASS X 70/70/70

PROTON 60/60/60

FCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 MAY 175

PREDICTED 05-07 MAY 176/172/172

90-DAY MEAN 04 MAY 148

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 03 MAY 49

ESTIMATED AFR/AP 04 MAY 50/90

PREDICTED AFR/AP 05-07 MAY 20/25 - 15/20 - 20/30

SOLTERWARN

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