

HFUS 3 BOU 200500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 140A

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 20 MAY 1978

IA. SOLAR ACTIVITY WAS LOW TO MODERATE DURING THE PAST SEVEN HOURS.
REGION 1110 (S21W69) PRODUCED AN M1/2B FLARE WHICH BEGAN NEAR 19/
2258Z, MAXED AT 2314Z, AND ENDED AT 2335Z. IT ALSO PRODUCED SEVERAL
C-CLASS X-RAY FLARES. OTHER REGIONS HAVE BEEN GENERALLY QUIET.

IB. SOLAR ACTIVITY WILL BE LOW TO OCCASIONALLY MODERATE DURING THE
REST OF THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST SEVEN HOURS.
HOWEVER, THE FIELD SHOULD BECOME ACTIVE BEFORE THE END OF THIS
ZULU DAY.

III. EVENT PROBABILITIES 20 MAY - 22 MAY

CLASS M 20/35/35

CLASS X 01/02/02

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 MAY 131

PREDICTED 20 - 22 MAY 140/146/150

90-DAY MEAN 19 MAY 146

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 MAY 05

ESTIMATED AFR/AP 19 MAY 05/06

PREDICTED AFR/AP 20 - 22 MAY 20/25 - 25/35 - 15/20

SOLTERWARN

BT

HFUS 3 BOU 201500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 140B

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 20 MAY 1978

IA. SOLAR ACTIVITY HAS BEEN LOW SINCE THE M-1 EVENT OF 19/2258Z.
NUMEROUS CLASS C EVENTS CONTINUE FROM REGION 1110 (S22W 75) WHICH
MAY STILL BE GROWING. CLOUDS COVER NEARLY ALL OPTICAL OBSERVATORIES.
A SMALL NEW REGION (1127) HAS APPEARED AT S18E 68. NO EVIDENCE
YET OF THE RETURN OF REGION 1092 AT NE LIMB.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE UNTIL REGION
1110 COMPLETES WEST LIMB PASSAGE. ACTIVITY WILL THEN DROP TO VERY
LOW UNLESS RETURNING REGIONS 1092/1095 ARE MORE ACTIVE THAN PRESENTLY
INDICATED.

II. THE GEOMAGNETIC FIELD CONTINUES QUIET. A RECURRENT MINOR
MAGNETIC STORM IS EXPECTED TO COMMENCE LATER TODAY.

III. EVENT PROBABILITIES 20-22 MAY

CLASS M 35/20/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 MAY 131

PREDICTED 20-22 MAY 127/125/130

90-DAY MEAN 19 MAY 146

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 MAY 05

ESTIMATED AFR/AP 19 MAY 05/06

PREDICTED AFR/AP 20-22 MAY 08/10 - 25/25 - 18/20

SOLTERWARN

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HFUS 1 BQU 202200Z

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 140

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 20 MAY 1978

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. THE LARGEST EVENT OF THE PAST 24 HOURS WAS A M-1/2B FLARE AT 19/2258Z FROM REGION 1110 (S21W79). THIS REGION PRODUCED NUMEROUS CLASS C EVENTS THROUGHOUT THE DAY. THE SPOTS WERE CLASS D WHEN LAST OBSERVED. NEW SMALL SPOT GROUPS HAVE APPEARED AT S17E61 (REGION 1127) AND S32E24 (REGIONS 1128). A BROAD AREA OF SMALL SURGES AND FAINT CORONAL RAIN ARE CROSSING EAST LIMB AT N20. THIS REGION PRODUCED A MINOR SURGE AT THE TIME OF A LONG-LIVED C-4 EVENT AT 1828Z AND HAS THEREFORE BEEN ASSIGNED REGION NUMBER 1129. THIS IS THE RETURN OF REGION 1092 WHICH PRODUCED NUMEROUS MAJOR EVENTS.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH MOST ACTIVE AT SW AND NE LIMBS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET UNTIL THE LAST 6 HOURS WHEN UNSETTLED CONDITIONS BEGAN. THE FIELD SHOULD BECOME ACTIVE TONIGHT AND REMAIN SO FOR TWO OR THREE DAYS. SHORT PERIODS OF MINOR STORM CONDITIONS CAN BE EXPECTED.

III. EVENT PROBABILITIES 21 MAY - 23 MAY

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 MAY 130

PREDICTED 21-23 MAY 135/140/145

90-DAY MEAN 20 MAY 147

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 MAY 04

ESTIMATED AFR/AP 20 MAY 04/06

PREDICTED AFR/AP 21-23 MAY 20/25 - 25/34 - 18/22

SOLTERWARN

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