

HFUS 3 BOU 180430

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 138A

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0500Z 18 MAY 1978

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST EIGHT HOURS. THE DISK REGIONS ALL APPEAR STABLE AND QUIET. THE LIMBS ARE QUIET.

IB. SOLAR ACTIVITY WILL CONTINUE AT A LOW LEVEL. CLASS C ACTIVITY IS EXPECTED. THERE ARE SEVERAL REGIONS 1112 (N21W03) AND 1114 (S27E15) IF THEY DEVELOP AND GROW ARE CAPABLE OF CLASS M ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED AND IT IS EXPECTED THE FIELD WILL BE UNSETTLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 18 MAY - 20 MAY

CLASS M 25/30/35

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 MAY 141

PREDICTED 18-20 MAY 144/148/152

90-DAY MEAN 17 MAY 146

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 16 MAY 08

ESTIMATED AFR/AP 17 MAY 08/10

PREDICTED AFR/AP 18-20 MAY 13/15 - 16/17 - 20/25

SOLTERWAR

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HFUS 3 BOU 181500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 138B

JOINT USAF/NOAA SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 18 MAY 1978

IA. SOLAR ACTIVITY HAS BEEN LOW WITH NUMEROUS CLASS C EVENTS IN THE PAST 12 HOURS. THE LARGEST FLARE WAS C6 AT 1157Z. OPTICAL PATROLS HAVE BEEN CLOUDED OUT MOST OF THIS PERIOD. A TYPE II BURST AT 0517Z WAS LOCATED AT SW LIMB OVER REGION 1117 WHICH WAS THE SOURCE OF YESTERDAY'S M-1 EVENT. MINOR SPOT GROWTH HAS OCCURRED BETWEEN SPOT GROUPS 1114 AND 1123 WHICH FORM A SINGLE REGION AT S27E13. GROWTH HAS ALSO OCCURRED NEAR THE SUNSPOT IN REGION 1108 (N18W80).

IB. SOLAR ACTIVITY WILL CONTINUE LOW BUT WITH CLASS M POTENTIAL INCREASING IN REGIONS 1108 AND 1114/1123. THE RETURN OF THE PROLIFIC FLARING CENTER 1092 IS EXPECTED IN LIMB ACTIVITY BEGINNING TOMORROW.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 12 HOURS. QUIET CONDITIONS WILL CONTINUE UNTIL A RECURRENT STORM COMMENCES ON 20 MAY

III. EVENT PROBABILITIES 18 MAY - 20 MAY

CLASS M 25/30/35

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 MAY 141

PREDICTED 18-20 MAY 135/135/141

90-DAY MEAN 17 MAY 146

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 16 MAY 08

ESTIMATED AFR/AP 17 MAY 08/10

PREDICTED AFR/AP 18-20 MAY 08/10 - 08/12 - 20/25

SOLTERWARN

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HFUS 1 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 138

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 18 MAY 1978

IA. SOLAR ACTIVITY HAS BEEN LOW. THE MOST SIGNIFICANT EVENTS WERE A TYPE II RADIO BURST ABOVE SW LIMB AT 0517Z AND A BRILLIANT LOOP PROMINENCE SYSTEM AT S25W90 AT 2019Z. THE FIRST WAS ACCOMPANIED BY A SLOW-RISE C-2 X-RAY EVENT WITH MAXIMUM AT 0630Z. THE SECOND HAD ONLY A C-1 BURST. THESE EMISSIONS SIGNIFY THAT REGION 1117 (S26W104) PRODUCED MAJOR FLARES TODAY WHICH WERE OCCULTED BY THE SOLAR LIMB. MINOR SPOT GROWTH HAS BUILT A STEEP MAGNETIC GRADIENT BETWEEN REGION 1114 (S26E00) AND REGION 1123 (S27E16).

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW UNTIL THE RETURN OF PROLIFIC FLARE SOURCE 1092 ON 19-21 MAY. CLASS M ACTIVITY IS INCREASINGLY POSSIBLE IN REGION 1114/1123. PROTON EMISSION IS POSSIBLE BUT UNLIKELY FROM TODAY'S WEST LIMB EVENT.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. ANOTHER DAY OF QUIET CONDITIONS IS EXPECTED BEFORE COMMENCEMENT OF A MINOR RECURRENT MAGNETIC STORM.

III. EVENT PROBABILITIES 19-21 MAY

CLASS M 20/20/35

CLASS X 01/01/02

PROTON 10/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 MAY 132

PREDICTED 19-21 MAY 134/140/146

90-DAY MEAN 18 MAY 146

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 MAY 10

ESTIMATED AFR/AP 18 MAY 05/08

PREDICTED AFR/AP 19-21 MZY 08/12 - 20/25 - 25/30

SOLTERWARN

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