

HFUS 1 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 187

JOINT AFGWC/SESC PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 06 JULY 1977

IA. SOLAR ACTIVITY HAS REMAINED VERY LOW FOR THE PAST 24 HOURS. REGION 846 (N21W42) HAS GROWN RAPIDLY FROM CLASS A TO CLASS D WITH EXCEPTIONALLY STRONG MAGNETIC FIELD STRENGTH. A LOW-FREQUENCY RADIO NOISE STORM AND A BRIGHT 10830 EMISSION FEATURE ALSO DISTINGUISH THIS REGION. ITS NEUTRAL LINE TENDS TOWARD AN ANOMALOUS EAST-WEST ORIENTATION. SUBTLE GROWTH AND INCREASED FILAMENT ACTIVITY HAVE OCCURRED IN REGION 843 (N39W79). ALL OTHER REGIONS ARE QUIET AND DECLINING.

IB. SOLAR ACTIVITY WILL INCREASE TO A LOW LEVEL WITH NUMEROUS CLASS C EVENTS FROM REGION 846 AND MINOR LIMB SURGES FROM REGION 843.

II. A MINOR MAGNETIC STORM COMMENCED SUDDENLY AT ABOUT 1040Z, PRESUMABLY AS A HIGH-SPEED SOLAR-WIND STREAM ENCOUNTERED THE EARTH. THE SOURCE OF THIS STREAM IS APPARENTLY A PERSISTENT CORONAL HOLE IN THE SUN'S NORTHERN HEMISPHERE. ACTIVE CONDITIONS ARE EXPECTED ONLY FOR THE NEXT 18 HOURS WITH UNSETTLED TO QUIET CONDITIONS THEREAFTER.

III. EVENT PROBABILITIES 07 JULY - 09 JULY

CLASS M 15/30/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 JULY 87

PREDICTED 07-09 JULY 86/85/85

90-DAY MEAN 06 JULY 84

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 05 JULY 05

ESTIMATED AFR/AP 06 JULY 18/18

PREDICTED AFR/AP 07-09 JULY 20/20 - 12/12 - 07/07

SOLIERWARN

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HFUS 3 BOU 061500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 187-B

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1500Z 06 JULY 1977

IA. SOLAR ACTIVITY HAS REMAINED VERY LOW FOR THE PAST 12 HOURS.
NEW REGION 846 (N20W37) IS GROWING STEADILY. IT IS NOW A CLASS
D SPOT GROUP AND IS EMITTING A MODERATE-INTENSITY TYPE I
RADIO NOISE STORM OF LOW FREQUENCY. MINOR X-RAY BURSTS HAVE
OCCURRED SINCE 1100Z. ALL OTHER REGIONS ARE QUIET AND DIMINISHING.

IB. SOLAR ACTIVITY WILL CONTINUE VERY LOW WITH AN INCREASE IN
CLASS-C FLARES IN DEVELOPING REGION 846.

II. THE GEOMAGNETIC FIELD BECAME UNSETTLED AT ABOUT 0800Z AND A
SUDDEN ONSET OF STORM CONDITIONS OCCURRED AT 1342Z. THIS STORM IS
INFERRED TO RESULT FROM A HIGH-SPEED SOLAR WIND STREAM ORIGINATING
FROM A NORTHERN HEMISPHERE CORONAL HOLE. THE STORM MAY BECOME
SEVERE DURING LOCAL NIGHT DURING THE NEXT 24 HOURS AND GRADUALLY
ABATE THEREAFTER.

II. EVENT PROBABILITIES 06 - 08 JULY

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 JULY 87

PREDICTED 06 - 08 JULY 83/81/79

90-DAY MEAN 05 JULY 84

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 04 JULY 11

ESTIMATED AFR/AP 05 JULY 05/07

PREDICTED AFR/AP 06 - 08 JULY 18/18 - 20/20 - 07/07

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HFUS 3 BOU 060500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 187A

JOINT AFGWC/SESC SECONDARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 0500Z 06 JULY 1977

IA. SOLAR ACTIVITY HAS BEEN VERY LOW DURING THE PAST EIGHT HOURS.
THE DISK REGIONS ALL APPEAR TO BE STABLE AND QUIET. THE LIMBS ARE
QUIET. A NEW REGION 0846 (N15W25) CONTAINING AN A TYPE SPOT HAS
BEEN OBSERVED.

IB. SOLAR ACTIVITY WILL CONTINUE AT A VERY LOW LEVEL.

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

III. EVENT PROBABILITIES 06 JULY - 08 JULY

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 JULY 87

PREDICTED 06-08 JULY 82/79/77

90-DAY MEAN 05 JULY 84

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 04 JULY 11

ESTIMATED AFR/AP 05 JULY 05/07

PREDICTED AFR/AP 06-08 JULY 06/07 - 06/07 - 05/05

SOLTERWARN

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