

HFUS 3 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 1598

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 08 JUN 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/1200
UT TO 08/2200UT:

SOLAR ACTIVITY HAS BEEN LOW SINCE 08/1200UT. THERE WERE NO OPTICAL
EVENTS. REGIONS 3145 (S09W06) AND 3152 (N11E43) HAVE CONTINUED
THEIR PREPONDERANCE. REGIONS 3155 AND 3156 WERE INADVERTENTLY
REASSIGNED TO REGIONS 3140 AND 3153 RESPECTIVELY. REGIONS 3155
AND 3156 HAVE BEEN DELETED. ONE NEW REGION WAS NUMBERED TODAY,
3157 (S28E69).

IP. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. INCREASED G-LEVEL X-RAY
ACTIVITY FROM REGIONS 3145 AND 3152 IS LIKELY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN AT MINOR STORM TO ACTIVE LEVELS THE
PAST 24 HOURS. ACTIVE TO UNSETTLED CONDITIONS ARE EXPECTED TO
PERSIST FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 9-11 JUN

CLASS M 20/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAP GREEN

IV. OTTAWA 10.7-CM FLUX

OBSERVED 8 JUN 144

PREDICTED 9-11 JUN 155/160/165

90-DAY MEAN 8 JUN 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 7 JUN 42/40

ESTIMATED AFR/AP 8 JUN 15/18

PREDICTED AFR/AP 9-11 JUN 15/12 - 12/12 - 15/20

SOLTERWARN

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HFUS 1 BQU 081300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 159A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1200UT 08 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/1200UT
TO 08/1200UT:

SOLAR ACTIVITY CONTINUES LOW; HOWEVER, THE LARGEST EVENT OBSERVED
SINCE 25 MAY OCCURRED AT 08/0741UT, A C7/SW FROM REGION 3152
(N11E49). THIS REGION ALSO PRODUCED A C4/SW AT 0305UT. SPOT AND
H-ALPHA GROWTH HAS BEEN REPORTED IN THIS REGION AND IN REGION
3145 (S08W01). EAST LIMB SURGING IS VISIBLE AT SE20 AND NE15.
REGION 3155 (N25W49), NUMBERED YESTERDAY IS ACTUALLY THE RE-
EMERGENCE OF SPOTLESS PLAGE REGION 3140.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. THE POTENTIAL OF AN
ISOLATED M-CLASS EVENT FROM EITHER REGION 3145 OR REGION 3152
IS SLOWLY INCREASING HOWEVER. APPEARANCE OF REGIONS AT EAST
LIMB COULD ALSO CONTRIBUTE TO A GENERAL INCREASE IN ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS AT MINOR STORM LEVELS DURING THE LAST
HALF OF THE ZULU DAY ON THE 7TH, BUT HAS GRADUALLY SETTLED WITH-
IN THE LAST THREE HOURS. UNSETTLED TO ACTIVE CONDITIONS ARE
EXPECTED DURING THE NEXT 24 HOURS.

III. EVENT PROBABILITIES: 09 JUNE - 11 JUNE

CLASS M 20/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 07 JUNE 142

ESTIMATED 08 JUNE 148

PREDICTED 09-11 JUNE 155/160/165

09 DAY MEAN 07 JUNE 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR 06 JUNE 12 AP 07 JUNE 40

ESTIMATED AFR 07 JUNE 36 AFR/AP 08 JUNE 16/

PREDICTED AFR/AP 09-11 JUNE 15/12 12/12 15/20

SOLTERWARN

BT