

HFUS-1 ECU 141300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 165A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 14 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

13/1200UT TO 14/1200UT:

SOLAR ACTIVITY HAS CONTINUED AT A LOW LEVEL DURING THE PAST 24 HOURS. ONLY A FEW VERY SMALL C-CLASS EVENTS HAVE BEEN RECORDED. FIVE REGIONS HAVE PRODUCED FLARES; HOWEVER, NONE HAVE BEEN LARGER THAN C1/SN. REGION 3159 (S26E32) CONTINUES AS THE LARGEST GROUP ON THE VISIBLE DISK. IT CONTAINS A DELTA, HOWEVER, IT HAS NOT PRODUCED AN EVENT SINCE IT PRODUCED A C6/1N ON 11/1915UT.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. REGION 3159 HAS THE POTENTIAL FOR AN ISOLATED M-CLASS EVENT IF THE REGION STARTS TO EXHIBIT SIGNIFICANT CHANGE. THE REMAINDER OF THE GROUPS ARE EITHER STABLE OR SHOWING SIGNS OF DECAY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PERIOD. THE FIELD IS EXPECTED TO REMAIN QUIET TO SLIGHTLY UNSETTLED UNTIL NEAR THE END OF THE FORECAST PERIOD. A CORONAL HOLE THAT HAS JUST PASSED CENTRAL MERIDIAN MAY CAUSE A BRIEF PERIOD OF ACTIVE CONDITIONS AT THE END OF FORECAST PERIOD.

III. EVENT PROBABILITIES: 15-17 JUNE

CLASS M 15/15/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBERVED 13 JUNE 148

ESTIMATED 14 JUNE 151

PREDICTED 15-17 JUNE 152/154/154

90 DAY MEAN 13 JUNE 197

V. GEOMAGNETIC A INDEXES

OBERVED AFR 12 JUNE 04 AP 13 JUNE 07

ESTIMATED AFR 13 JUNE 07 AFR/AP 14 JUNE 06/06

PREDICTED AFR/AP 15-17 JUNE 08/08 08/08/15/15

SOL-TER-WARN

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HEIIS 3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SDF NUMBER 165P

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200 UT 14 JUNE 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/1200 UT TO 14/2200 UT: SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST EVENT IN THIS PERIOD WAS A C1/IN. FROM REGION 3152 (N 12W 34) THE MAXIMUM OCCURRING LAT 1831Z. SUBFLARES HAVE OCCURRED IN REGIONS 3157 (S24W14), AND 3159 (S25E26).

II. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY MAY BE EXPECTED TO REMAIN LOW. SIGNIFICANT DEVELOPMENT IN DISK REGIONS HAS NOT OCCURRED. NO NEW REGIONS HAVE APPEARED ON THE LIMB.

III. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET. SLIGHT INCREASE NEAR OR INTO UNSETTLED LEVELS IS EXPECTED.

IV. EVENT PROBABILITIES 15 JUNE - 17 JUNE

CLASS M 15/15/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

V. OTTAWA 10.7 CM FLUX

OBSERVED 14 JUNE 154

PREDICTED 15-17 JUNE 152/154/154

90-DAY MEAN 14 JUNE 197

VI. GEOMAGNETIC INDICES

OBSERVED AFR/AP 13 JUNE 08/07

ESTIMATED AFR/AP 14 JUNE 06/06

PREDICTED AFR/AP 15-17 JUNE 08/08 - 08/08 - 15/15

SOLTERWARN

PT