

HFUS 1 BOU 071301

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 158A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1200UT 07 JUNE 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200UT TO 07/1200UT:

SOLAR ACTIVITY CONTINUED VERY LOW DURING THE PAST 24 HOURS WITH ONLY LOW LEVEL C-CLASS X-RAY EVENTS OBSERVED. REGIONS 3145 (S09E12) AND 3154 (S09W84) PRODUCED THE ONLY REPORTED OPTICAL EVENTS, BOTH SUBNORMAL FLARES. NEW ENHANCED PLAGE AND SURGING HAS BECOME VISIBLE AT N03, EAST LIMB BUT DOES NOT APPEAR VERY DYNAMIC AT THIS TIME. MINOR GROWTH IN REGION 3145 ALONG WITH 3140 (N24W36) HAS BEEN REPORTED.

II. SOLAR ACTIVITY FORECAST:

LOW SOLAR ACTIVITY IS EXPECTED DURING THE FORECAST PERIOD; HOWEVER A VERY GRADUAL INCREASE IN SOLAR ACTIVITY PARAMETERS SUCH AS 10.7 CM RADIO FLUX IS EXPECTED DUE TO DEVELOPMENT ON THE DISK AND AT EAST LIMB.

III. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED DURING THE PAST 24 HOURS WITH THE 03-09Z PERIOD INCREASING TO THE ACTIVE CATEGORY. RECURRENCE SUGGESTS THAT THESE ACTIVE CONDITIONS SHOULD LAST FOR AT LEAST ANOTHER 24 HOURS.

III. EVENT PROBABILITIES: 08 JUNE - 10 JUNE

CLASS M 15/15/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 06 JUNE 137

ESTIMATED 07 JUNE 140

PREDICTED 08 JUNE - 10 JUNE 145/150/155

V. GEOMAGNETIC A INDICES

OBSERVED AFR 05 JUNE 06 AP 06 JUNE 13

ESTIMATED AFR 06 JUNE 12 AFR/AP 07 JUNE 22/28

PREDICTED AFR/AP 08 JUNE - 10 JUNE 15/15 12/12 10/12

SOLTERWARN

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HFUS 3 R0U 072200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 185B 158B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200 UT 07 JUNE 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/1200 UT TO 07/2200 UT: SOLAR ACTIVITY HAS BEEN VERY LOW SINCE 07/1200 UT. THERE WERE NO EVENTS. REGIONS 3145 (S08E06) AND 3152 (N11E56) GREW SIGNIFICANTLY AND CURRENTLY POSSESSES POTENTIAL FOR C-CLASS X-RAY EVENTS. TWO NEW REGIONS WERE NUMBERED TODAY, 3155 (N25W43) AND 3156 (N04E03).

I B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW FOR THE FORECAST PERIOD.

I I J. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS THIS ZULU DAY. ACTIVE PERIODS ARE EXPECTED ON 08 JUNE, FOLLOWED BY UNSETTLED CONDITIONS FOR THE REMAINDER OF THE FORECAST PERIOD.

I I I. EVENT PROBABILITIES 08 JUNE - 10 JUNE.

CLASS M 15/15/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JUNE 142

PREDICTED 08-10 JUNE 145/150/155

90-DAY MEAN 07 JUNE 201

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 JUNE 12/13

ESTIMATED AFR/AP 07 JUNE 32/32

PREDICTED AFR/AP 08-10 JUNE 15/15 - 12/12 - 10/12

SOLTERWARN

BT