

HFUS 1 BOU 181300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 230A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 18 AUG 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/1200Z TO 18/1200Z:

SOLAR ACTIVITY HAS BEEN MODERATE THOUGH REDUCED FROM THE PRECEDING 24 HOURS. THE LAST CLASS M FLARE OCCURRED AT 17/0248Z IN DEPARTED REGION 3257 AND WAS A CLASS M2. SINCE THEN A NUMBER OF C CLASS FLARES HAVE OCCURRED IN REGION 3266 (S16W01) AND LESS FREQUENTLY IN REGIONS 3284 (S08E71) AND 3274 (S06E24). REGION 3266 CONTINUES WITH A TREND OF VERY SLOW OVERALL DECAY BUT WITH SMALL AREAS OF NEW FLUX EMERGING. REGION 3284 IS TOO NEAR THE EAST LIMB FOR PROPER EXAMINATION BUT IT HAS BEEN PRODUCING LIMB SURGES AND HAS AN ACTIVE PROMINENCE ASSOCIATED WITH IT.

II. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH REGIONS 3266 AND 3284 AS THE PRIMARY SOURCES OF PROBABLE CLASS M FLARES.

III. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN ACTIVE THROUGH THE SUMMARY PERIOD BUT IS EXPECTED TO TREND SLIGHTLY DOWNWARD TO UNSETTLED LEVELS OVER THE NEXT THREE DAYS. THE SOLAR FLUX IS EXPECTED TO RISE AS MORE OF ACTIVE REGION 3284 BECOMES VISIBLE IN THE SOUTHEAST.

III. EVENT PROBABILITIES: 19 AUGUST - 21 AUGUST

CLASS M 80/75/75

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 17 AUG 223

ESTIMATED 18 AUG 228

PREDICTED 19-21 AUG 230/232/235

90 DAY MEAN 17 AUG 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR 16 AUG 09 AP 17 AUG 23

ESTIMATED AFR 17 AUG 20 AP/AP 18 AUG 20/21

PREDICTED AFR/AP 19-21 AUG 15/15 15/19 12/16

SOLTERWARN

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HEUS 3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDE NUMBER 2308

JOINT USAF/NCAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 18 AUGUST 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/1200Z TO 18/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PERIOD.

ONLY A FEW SMALL C-CLASS EVENTS HAVE BEEN REPORTED. A FILAMENT JUST WEST OF REGION 3284 (S09E66) DISAPPEARED BETWEEN 1640Z AND 1656Z. REGION 3266 (S16W09) CONTINUES TO EXHIBIT SIGNS OF SLOW DECAY.

II. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH REGIONS 3266, 3284 AND 3279 (S17E34) HAVING THE POTENTIAL FOR M-CLASS ACTIVITY.

III. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE LEVELS DURING THIS PERIOD. THE FIELD IS EXPECTED TO BE AT OR NEAR ACTIVE CONDITIONS DURING THE FORECAST PERIOD.

IV. EVENT PROBABILITIES 19 AUGUST - 21 AUGUST

CLASS M 80/75/75

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

V. OTTAWA 10.7 CM FLUX

OBSERVED 18 AUGUST 238

PREDICTED 19-21 AUGUST 238/238/235

90-DAY MEAN 18 AUGUST 177

VI. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 AUGUST 24/23

ESTIMATED AFR/AP 18 AUGUST 24/21

PREDICTED AFR/AP 19-21 AUGUST 15/15 - 15/19 - 12/16

SOLAR TERM

PT