

HFUS 3 BOU 020200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

7 DAY FORECAST OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0200Z 02 APRIL 1979

SOLAR ACTIVITY SHOULD BE GENERALLY MODERATE FOR THIS FORECAST PERIOD. REGION 1661 (S24, L-318) IS THE MOST DOMINATE REGION ON THE SOLAR DISK AT THIS TIME. AN EXTREMELY LARGE AND COMPLEX GAMMA/Delta REGION, 1661 COULD EASILY RAISE THE LEVEL OF ACTIVITY TO HIGH BEFORE ITS WEST LIMB TRANSIT AT THE END OF THE FORECAST PERIOD.

THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED FOR THIS FORECAST PERIOD. ACTIVE CONDITIONS MAY BE EXPERIENCED NEAR 06 APRIL. FLARE INDUCED DISTURBANCES ARE POSSIBLE DEPENDING UPON THE AMOUNT OF ACTIVITY PRODUCED BY REGION 1661.

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HFUS 3 BOU 020201

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

27-DAY FORECAST OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0201Z 02 APRIL 1979

SOLAR ACTIVITY SHOULD BE GENERALLY MODERATE FOR THIS FORECAST PERIOD. REGION 1661 SHOULD KEEP THE ACTIVITY AT MODERATE LEVELS WITH A GOOD CHANCE OF AN INCREASE TO HIGH LEVELS UNTIL ITS WEST LIMB TRANSIT ON 10 APRIL. REGION 1638 (N07, L-126) IS DUE TO RETURN NEAR 10 APRIL. THIS REGION WAS STILL GROWING IN SIZE AND COMPLEXITY AND PRODUCED SEVERAL ENERGETIC EVENTS AS IT ROTATED OFF THE VISIBLE DISK LAST ROTATION. ITS REAPPEARANCE AS 1661 IS LEAVING SHOULD MAINTAIN SOLAR ACTIVITY TO AT LEAST MODERATE LEVELS.

THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED FOR THIS FORECAST PERIOD. ACTIVE CONDITIONS MAY BE EXPERIENCED ON 06, 13 AND 18 APRIL. FLARE INDUCED DISTURBANCES ARE POSSIBLE FROM REGION 1661 UNTIL 10 APRIL AND FROM RETURNING REGION 1638, THEREAFTER.

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HEUS 1 BQ1 022200Z

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 092

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 02 APRIL 1979

IA. SOLAR ACTIVITY HAS BEEN UNEXPECTEDLY LOW DURING THE PAST 24 HOURS CONSIDERING THE COMPLEXITY OF REGION 1661 (S26W06). THE LARGEST EVENT OBSERVED FROM THIS REGION WAS A C8/2F FLARE AT 0043Z MAXIMUM. TEN SUBFLARES HAVE BEEN OBSERVED DURING THE PERIOD BUT THE EXPECTED LARGE EVENT HAS NOT MATERIALIZED. THE REGION APPEARS TO HAVE SLOWED IN GROWTH AND REMAINS A GAMMA DELTA WITH AT LEAST TWO DELTA CONFIGURATIONS WITHIN THE REGION. REGION 1665 (S18E14) HAS PRODUCED A C6/SB FLARE MAXING AT 1410Z. THIS REGION HAS UNDERGONE SOME STRUCTURAL CHANGE DURING THE PERIOD WITH A MORE COMPLEX NEUTRAL LINE DEVELOPING. REGION 1667 (S35E04) IS THE ONLY OTHER SIGNIFICANT AREA, PRODUCING A C1/SB AT 1625Z. NEW REGION 1674 (N27E19) HAS BEEN REPORTED AS A SIMPLE A-TYPE GROUP.

IB. SOLAR ACTIVITY CAN BE EXPECTED TO INCREASE TO MODERATE LEVELS WITH REGION 1661 BEING THE MAIN CONTRIBUTOR. AN ISOLATED LARGE EVENT IS VERY POSSIBLE DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN PREDOMINATELY AT ACTIVE LEVELS DURING THE PAST 24 HOURS FOLLOWING A SUDDEN COMMENCEMENT OBSERVED AT 01/2150Z. MINOR STORM CONDITIONS WERE NOTED FOLLOWING THE SC UNTIL 0600Z. ACTIVE CONDITIONS ARE FORECAST THROUGH THE NEXT 24 HOURS, FOLLOWED BY UNSETTLED CONDITIONS. A FLARE INDUCED STORM IS POSSIBLE DURING THE PERIOD.

III. EVENT PROBABILITIES 03 APRIL - 05 APRIL

CLASS M 85/85/85

CLASS X 25/30/35

PROTON 10/20/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 APRIL 206

PREDICTED 03-05 APRIL 204/202/200

90-DAY MEAN 02 APRIL 199

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 APRIL 24

ESTIMATED AFR/AP 02 APRIL 25/35

PREDICTED AFR/AP 03-05 APRIL 20/25 - 15/17 - 10/12

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