

HFUS 3 BOU 180200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

7 DAY FORECAST OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0200Z 18 JUNE 1979

SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE FOR THE NEXT SEVEN DAYS. REGION 1807 (N20, L-031), WHICH WILL BE ON THE DISK FOR MOST OF THE FORECAST PERIOD, IS CAPABLE OF AT LEAST M-CLASS ENERGETIC EVENTS.

THE GEOMAGNETIC FIELD IS EXPECTED TO BE MOSTLY UNSETTLED.

RECURRENT SUGGESTS ACTIVE CONDITIONS ARE POSSIBLE ON 19 JUNE.

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HFUS 3 BOU 180201

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

27-DAY FORECAST OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 0200Z 18 JUNE 1979

SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY MODERATE OVER THE NEXT 27 DAYS WITH SHORT, INTERSPERSED PERIODS OF LOW ACTIVITY. THERE IS SOME EVIDENCE IN THE SYNOPTIC PATTERNS INDICATING THAT ACTIVE REGION DEVELOPMENT WILL OCCUR IN A PREVIOUSLY ESTABLISHED QUIET ZONE BETWEEN CARRINGTON LONGITUDES 180-290, WHICH WILL DOMINATE THE VISIBLE DISK FROM 23 JUNE - 08 JULY. HOWEVER, A SECONDARY QUIET ZONE IS DEVELOPING BETWEEN LONGITUDES 000-080 WHICH MAY THEN DEPRESS THE OVERALL LEVEL OF SOLAR ACTIVITY FROM 08-20 JULY.

THE GEOMAGNETIC FIELD IS EXPECTED TO BE MOSTLY UNSETTLED THROUGHOUT THE FORECAST PERIOD. RECURRENT SUGGESTS QUIET CONDITIONS FROM 27 JUNE - 02 JULY AND ACTIVE CONDITIONS ON 19, 21-23 AND 25-27 JUNE.

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HFUS 1 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO.

SOF NUMBER 169

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 18 JUNE 1979

I. SOLAR ACTIVITY WAS MODERATE TODAY. THERE WERE TWO M1 X-RAY CLASS FLARES. THE FIRST STARTED AT 0619Z AND HAD NO OPTICAL REPORT. THE SECOND STARTED AT 2045Z AND WAS OPTICALLY A M1B FROM REGION 1807 (N23W18). ALL OTHER FLARES WERE C-CLASS SUBFLARES. TWO NEW REGIONS WERE OBSERVED TODAY, 1817 (N12W20), A C-TYPE REGION, AND 1818 (S07E65). AN H-TYPE REGION. REGION 1818 IS ERUPTIVE.

II. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE FOR THIS FORECAST PER IOD. THE GROWTH OBSERVED YESTERDAY IN REGIONS 1807, 1812 (N27W46) AND 1815 (N27W15) DID NOT CONTINUE. HOWEVER, THE MAGNETIC GRADIENT IN REGION 1807 IS SUFFICIENTLY INTENSE TO CONTINUE PRODUCING MODERATE ACTIVITY.

III. THE GEOMAGNETIC FIELD WAS QUIET TODAY. RECURRENCE SUGGESTS ACTIVE CONDITIONS TOMORROW, BECOMING UNSETLED ON 20 JUNE AND THEN RETURNING TO ACTIVE CONDITIONS ON 21 JUNE DUE TO THE RETURN OF A LARGE CORONAL HOLE.

III. EVENT PROBABILITIES 19 JUNE - 21 JUNE

CLASS M 25/25/30

CLASS X 25/01/01

PREDICTON 25/01/21

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 JUNE 147

PREDICTED 19-21 JUNE 145/143/143

92-DAY MEAN 18 JUNE 179

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 17 JUNE 11

ESTIMATED AFR/AP 18 JUNE 08/10

PREDICTED AFR/AP 19-21 JUNE 20/30 - 10/20 - 18/30

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