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HFUS 1 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 168

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 17 JUNE 1978

IA. SOLAR ACTIVITY HAS BEEN LOW WITH AN INCREASING NUMBER OF SMALL ACTIVE REGIONS WITH SUBFLARES. REGION 1160 (N15W42) HAS GROWN TO A CLASS D SPOT GROUP WITH COMPACT PLAGE AND HAS PRODUCED NUMEROUS SMALL FLARES. REGIONS 1157 (N18E09) AND 1161 (S23E47) HAVE BOTH DEVELOPED DELTA MAGNETIC CONFIGURATIONS. REGION 1163 (S15 E 65) PRODUCED A MAJOR ERUPTIVE PROMINENCE AND C6 X-RAY EVENT AT 16/2320Z BUT HAS ONLY A SMALL SPOT WITHIN A LARGE SCATTERED PLAGE. A LARGE SYMMETRIC SPOT HAS ROTATED INTO VIEW AT N19E76 (REGION 1164) AS THE RETURN OF REGION 1129. FREQUENT SURGES HAVE OCCURRED HERE.

ADDITIONAL SMALL REGIONS HAVE APPEARED AT N32 E 74 (REGION 1166), N11E29 (REGION 1165), N11E23 (1167) AND N40E79 (NO SPOTS).

IB. THE FREQUENCY OF CLASS C FLARES WILL INCREASE AND CLASS M EVENTS ARE NOW EXPECTED WITHIN 48 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO QUIET. CONDITIONS ARE EXPECTED TO BECOME MORE UNSETTLED AFTER PASSAGE OF A SECTOR BOUNDARY WITHIN THE NEXT 24 HOURS. SHORT PERIODS OF ACTIVE CONDITIONS MAY OCCUR DURING THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 18-20 JUNE

CLASS M 30/50/50

CLASS X 01/05/05

PROTON 01/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 JUNE 144

PREDICTED 18-20 JUNE 149/154/155

90-DAY MEAN 17 JUNE 140

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 16 JUNE 07

ESTIMATED AFR/AP 17 JUNE 12/12

PREDICTED AFR/AP 18-20 JUNE 18/18 - 18/20 - 20/25

SOLTERWARN

BT