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HFUS 1 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 249

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 05 SEPT 1980

IA. SOLAR ACTIVITY HAS BEEN LOW TODAY. THE LAST MAJOR EVENT WAS A M2/1B FLARE AT 2220Z YESTERDAY FROM REGION 2645 (S07W44). THIS AND REGION 2646 (N12W40) HAVE BOTH PRODUCED NUMEROUS SUBFLARES, THE LARGEST THIS U.T. DAY WAS A C4/SB FROM REGION 2646. SUNSPOT EVOLUTION IN REGIONS 2645 AND 2646 HAS REDUCED THESE LARGE REGIONS TO MORE SIMPLE FORMS. THE AREA OF SPOTS IS REDUCED IN REGION 2645. REGIONS 2657 AND 2658 WERE DETERMINED TO BE ONE REGION, 2657 (N15E31). NO NEW REGIONS WERE OBSERVED TODAY.

IB. SOLAR INDICES AND FLARE ACTIVITY WILL CONTINUE TO DECLINE AS NO IMPORTANT GROWTH IS NOW OCCURRING AND NO SIGNIFICANT REGIONS ARE APPEARING AT EAST LIMB. AN ISOLATED CLASS M EVENT MAY YET OCCUR BEFORE REGION 2645 REACHES WEST LIMB.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. UNSETTLED TO ACTIVE CONDITIONS MAY OCCUR TOMORROW IF THERE ARE PARTICLES ARRIVING FROM THE 04/0203Z FLARE. CHANCES ARE GOOD THAT CONDITIONS WILL REMAIN UNDISTURBED. NO IMPORTANT CHANGE IN CONDITIONS IS EXPECTED AFTER TOMORROW.

III. EVENT PROBABILITIES 06 - 08 SEPTEMBER

CLASS M 40/30/30

CLASS X 05/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 SEPT 1214

PREDICTED 06 - 08 SEPT 208/193/190

90-DAY MEAN 05 SEPT 136

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 04 SEPT 12

ESTIMATED AFR/AP 05 SEPT 09/15

PREDICTED AFR/AP 06 - 08 SEPT 12/15 08/08 10/10

SOLTERWARN

BT