

HFUS 1 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 170

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 19 JUNE 1978

IA. SOLAR ACTIVITY REMAINS AT LOW LEVELS DESPITE THE ELEVEN ACTIVE REGIONS CURRENTLY VISIBLE ON THE SOLAR DISK. REGIONS 1157 (N18W12), 1160 (N16W69) AND 1161 (S25E21) HAVE ALL DETERIORATED SINCE YESTERDAY AND HAVE LOST MOST OF THEIR ENERGETIC POTENTIAL. REGIONS 1155 (N17W23) AND 1158 (N24W50) HAVE GROWN SOMEWHAT AND THEIR PLAGE HAS BRIGHTENED. THESE TWO REGIONS HAVE EACH PRODUCED ONE OR TWO C-CLASS SUBFLARES DURING THE LAST 24 HOURS - NOTHING MORE.

IB. OCCASIONAL C-CLASS SUBFLARES SHOULD BE EXPECTED FROM THE PRESENT DISK REGIONS. NEW REGION 1171 (N26E83) AND A PECULIAR SURGING REGION AT (SE 18) GIVE INCREASING PROMISE OF M-CLASS ACTIVITY WITHIN A FEW DAYS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO MILDLY ACTIVE DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO REACH MINOR STORM LEVELS BRIEFLY DURING THE NEXT 24 HOURS WITH THE RETURN OF STABLE RECURRENT INTERPLANETARY STRUCTURE.

III. EVENT PROBABILITIES 20 JUNE - 22 JUNE

CLASS M 30/40/50

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 JUNE 160

PREDICTED 20-22 JUNE 165/166/162

90-DAY MEAN 19 JUNE 141

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 JUNE 12

ESTIMATED AFR/AP 19 JUNE 16/10

PREDICTED AFR/AP 20-22 JUNE 24/27 - 17/18 - 18/19

SOLTERWARN

BT