

HFUS 1 80U 022200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 246

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 02 SEPTEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN GENERALLY MODERATE DURING THE PAST 24 HOURS. TWENTY NINE C-CLASS SUBFLARES HAVE BEEN REPORTED DURING THAT TIME WITH OPTICAL ASSOCIATION. MORE THAN A THIRD OF THESE SUBFLARES AND THE LARGEST OF THEM (A C8/SB WITH A MAXIMUM AT 0649 UT) OCCURRED IN REGION 2645 (S08W05). THE REGION HAS RESTRUCTURED CONSIDERABLY AND THE MAGNETIC GRADIENTS HAVE WEAKENED. REGION 2648 (S06E07), WHICH WAS INTERACTING WITH REGION 2645, HAS SIMPLIFIED GREATLY AND PULLED AWAY FROM 2645. REGION 2646 (N11W01) PRODUCED HALF A DOZEN SUBFLARES DURING THE PAST 24 HOURS. HERE AGAIN CONSIDERABLE RESTRUCTURING HAS TAKEN PLACE, BUT IN THIS CASE, THE GRADIENTS APPEAR AS STEEP AS EVER. REGION 2657 (N15E70) HAS PRODUCED A NUMBER OF SUBFLARES BUT IT IS NOT YET FAR ENOUGH ONTO THE DISK FOR ADEQUATE ANALYSIS.

IB. THE CENTRAL MERIDIAN COMBINATION OF REGION 2646 AND COMPLEX OF REGIONS 2645/2648 HAS BEGUN TO DECAY ALTHOUGH THE POTENTIAL STILL EXISTS FOR A VERY ENERGETIC FLARE IN THE AREA. HOWEVER, AS DISINTEGRATION TAKES PLACE THE THREAT OF MAJOR ACTIVITY MUST EVENTUALLY BE REDUCED. OTHER REGIONS ON THE DISK NOW APPEAR TO LACK MAJOR ENERGETIC FLARE POTENTIAL.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET DURING THE PAST 24 HOURS. A MINOR GEOMAGNETIC DISTURBANCE IS POSSIBLE DURING THE NEXT 48 HOURS (THOUGH BY NO MEANS CERTAIN). AFTER THAT, THE FIELD SHOULD BECOME UNSETTLED.

III. EVENT PROBABILITIES 03 SEPTEMBER - 05 SEPTEMBER

CLASS M 85/80/75

CLASS X 20/20/15

PROTON 05/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 SEPTEMBER 226

PREDICTED 03-05 SEPTEMBER 223/227/224

90-DAY MEAN 02 SEPTEMBER 184

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 SEPTEMBER 10

ESTIMATED AFR/AP 02 SEPTEMBER 05/10

PREDICTED AFR/AP 03-05 SEPTEMBER 12/15 - 16/15 - 11/10

SOLTERWARN

BT