

HFUS 1 BOU 202200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDF NUMBER 264

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 20 SEPT 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 2680 (S32E10) PRODUCED A SN AT 0113 UT AND A IF AT 0535 UT. NO X-RAY REPORTED. REGION 2675 (S12W48) HAD A C2/IN AT 0635 UT. THE LARGEST EVENT WAS A C4 AT 1942 UT, MINOR RADIO WAS ALSO OBSERVED, THIS EVENT MAY HAVE BEEN BEHIND THE LIMB AS NO OPTICAL WAS REPORTED AND AT LEAST THREE OBSERVATORIES WERE SEEING AT THE TIME. NEW REGIONS TODAY 2690 (S07E71) SIMPLE H TYPE AND 2691 (N10E08) IS A RAPIDLY DEVELOPING REGION, NOW A H TYPE, HOWEVER FURTHER DEVELOPMENT IS EXPECTED.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THE NEXT 24 HOURS. REGIONS 2684, 2687 AND 2680 ARE THE MOST LIKELY TO PRODUCE EVENTS. REGION 2691 MAY PRODUCE SMALL EVENTS IF RAPID GROWTHS CONTINUES. OLD REGION 2645 (S07L310) MAY START TO CONTRIBUTE TO THE OVER ALL FLUX LEVEL DURING THE NEXT 24-36 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24 HOURS. A SUDDEN COMMENCEMENT OF 22 GAMMAS OCCURRED AT 0120 UT. THE FIELD IS EXPECTED TO BE UNSETTLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 21-23 SEPT

CLASS M 15/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 SEPT

PREDICTED 21-23 SEPT

90-DAY MEAN 20 SEPT

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 SEPT

ESTIMATED AFR/AP 20 SEPT

PREDICTED AFR/AP 21-23 SEPT

SOLTERWARN

BT

166

170/178/185

182

05

10/10

12/14 12/12 12/12