

HFUS 1 BOW 262200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDF NUMBER 270

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 26 SEPT 1980

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. WITH THE EXCEPTION OF A C2/1B FLARE FROM THE UNINTERESTING REGION 2694 (N12E35), ALL ACTIVITY HAS BEEN RESTRICTED TO SMALL C-CLASS SUBFLARE EVENTS. REGIONS 2684 (N18W64), 2696 (S06E34), 2697 (S17E38) AND NEW REGION 2699 (N20E72) HAVE ALL PRODUCED SUBFLARE ACTIVITY. THE TWO REGIONS CONTAINING THE MOST POTENTIAL FOR ACTIVITY, 2684 AND 2697 HAVE UNDERGONE SLOW GROWTH AND H-ALPHA CHANGE, BUT HAVE NOT MANAGED TO PRODUCE A SIGNIFICANT EVENT. THE RESTRUCTURING IN REGION 2684 HAS RESULTED IN TWO WEAK DELTA MAGNETIC CONFIGURATIONS WHILE IN 2697 AN ACTIVE INVERSION LINE AND A TIGHT MAGNETIC GRADIENT EXIST JUST BEHIND THE LEADER SPOT. THE NORTHEAST PORTION OF THE LIMB HAS SHOWN SOME ACTIVITY WITH REGIONS 2698 (N29E72) AND 2699 (N20E72) NUMBERED TODAY AND EXTENSIVE SURGING NOW VISIBLE AT NORTHEAST 16. A DARK FILAMENT LOCATED AT S20E12 HAS BECOME ACTIVE WITH SOME INDICATION OF ERUPTION.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. AN ISOLATED M-CLASS EVENT IS POSSIBLE FROM REGION 2684 PRIOR TO ITS WEST LIMB ROTATION AND FROM 2697 ESPECIALLY IF ITS GROWTH CONTINUES. REGION 2699 AND THE INDICATION OF ANOTHER ACTIVE REGION BEHIND NE LIMB COULD HERALD SOME INCREASE IN ACTIVITY FROM THIS AREA.

II. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETTLED DURING THE PAST 24 HOURS. UNSETTLED CONDITIONS ARE EXPECTED TO CONTINUE THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 27 - 29 SEPTEMBER

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 SEP

183

PREDICTED 27 - 29 SEP

185/188/183

90-DAY MEAN 26 SEP

179

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 25 SEP

08

ESTIMATED AFR/AP 26 SEP

08/10

PREDICTED AFR/AP 27 - 29 SEP

08/10 07/08 08/10

SOLTERWARN

BT