

4FUS 1 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 1257

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 13 SEPTEMBER 1980

I. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 2665 (N14E05) HAS PRODUCED 2 SUBFLARES BUT ONLY ONE WAS OBSERVED WITH C-CLASS X-RAY. THIS REGION HAS EXPERIENCED SLIGHT GROWTH AND HAS DISPLAYED BRIGHT POINTS NEAR THE LARGE TRAILER SPOT. REGION 2675 (SIZE40) HAS PRODUCED 5 SUBFLARES DURING THE PAST 24 HOURS. THE MOST RECENT THREE OF THESE FLARES WERE ALSO OBSERVED AS C-CLASS X-RAY EVENTS. TWO OTHER REGIONS 2664 (N08W23) AND 2657 (N12W80) APPEAR WITH SLIGHTLY ENHANCED PLAGE WITH FLUCTUATIONS. EACH OF THESE HAS PRODUCED SUBFLARES DURING THE PAST 24 HOURS. A NEW UNIPOLAR REGION 2677 (N13W08) HAS DEVELOPED. ALL OTHER DISK AND LIMB FEATURES APPEAR QUIET AND STABLE.

II. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT PRESENT LOW LEVELS WITH THE SLIGHT POSSIBILITY OF GROWTH IN EITHER REGION 2665 OR 2675. REGIONS 2664 AND 2657 ARE EXPECTED TO CONTINUE AT PRESENTLY OBSERVED LOW LEVELS WITH C-CLASS SUBFLARES LIKELY.

III. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST 24 HOURS AND IS EXPECTED TO BE UNSETLED FOR THE NEXT 72 HOURS. A HIGHLY LOCALIZED MAJOR MAGNETIC STORM IN ANCHORAGE BEGAN AT 12/0600 UT AND HAS CONTINUED UNTIL 13/1500 UT.

III. RECENT PROBABILITIES 14 SEPTEMBER - 16 SEPTEMBER

CLASS M 35/35/35

CLASS X 01/01/01

PREDICTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 SEPTEMBER 170

PREDICTED 14-16 SEPTEMBER 163/160/157

90-DAY MEAN 13 SEPTEMBER 186

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 13 SEPTEMBER 16

ESTIMATED AFR/AP 13 SEPTEMBER 20/21

PREDICTED AFR/AP 14-16 SEPTEMBER 14/15 - 12/15 - 12/12

SOLTERWARM

PT