

HFUS 1 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 257

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

IA. 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 (S12E40) 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 FLARE 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.

IB. 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.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST 24
HOURS AND IS EXPECTED TO BE UNSETTLED 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. EVENT PROBABILITIES 14 SEPTEMBER - 16 SEPTEMBER

CLASS M 35/35/35

CLASS X 01/01/01

PROTON 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 185

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 12 SEPTEMBER 16

ESTIMATED AFR/AP 13 SEPTEMBER 20/21

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

SOLTERWARN

BT