

HFUS 1 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 265

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 21 SEPTEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. C-CLASS X-RAY SUBFLARES WERE OBSERVED FROM REGIONS 2675 (S12W61) AND 2687 (N11E04). MINOR RADIO BURSTS INCLUDING A MODERATE TYPE III ACCOMPANIED THE C1/SN FLARE FROM 2687, WHICH MAXED AT 0117 UT. SOME GROWTH IN WHITE LIGHT WAS OBSERVED FOR REGIONS 2680 (S32E01) AND 2684 (N18E03). NEW REGION 2692 (N09E43) APPEARED TODAY AS AN H-TYPE SPOT. ALL OTHER REGIONS REMAINED STABLE OR DECLINED. PORTIONS OF A LARGE NORTHERN EAST-WEST FILAMENT HAVE DISAPPEARED. THIS FILAMENT LIES ALONG THE LOWER BORDER OF A LARGE NEGATIVE POLARITY CORONAL HOLE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. ONLY ISOLATED M-CLASS ACTIVITY IS POSSIBLE FROM REGIONS PRESENTLY ON THE VISIBLE DISK. THE POTENTIAL RETURN OF REGIONS WHICH WERE ACTIVE LAST ROTATION RAISES THE PROBABILITY OF SIGNIFICANT FLARES TOWARD THE END OF THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN EXTREMELY QUIET FOR THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BECOME UNSETLED TO OCCASIONALLY ACTIVE FOR THE NEXT THREE DAYS IN RESPONSE TO A RECURRENT NORTHERN CORONAL HOLE.

III. EVENT PROBABILITIES 22 SEPTEMBER - 24 SEPTEMBER

CLASS M 15/20/25

CLASS X 01/01/01

PREDICTED 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 SEPTEMBER 158

PREDICTED 22-24 SEPTEMBER 156/160/165

90-DAY MEAN 21 SEPTEMBER 181

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 20 SEPTEMBER 06

ESTIMATED AFR/AP 21 SEPTEMBER 02/07

PREDICTED AFR/AP 22-24 SEPTEMBER 12/10 - 17/18 - 12/12

SOLTERWARN

BT