

HFUS 1800 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 268

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 24 SEPTEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE WITH THE OCCURRENCE OF MANY
SMALL FLARES FROM REGION 2697 (S18E65) AND REGION 2684 (N18W40).
THE MOST SIGNIFICANT OF THESE WAS AN M1/1B FROM REGION 2684 AT
0734Z WITH AN ASSOCIATED TYPE II IMPORTANCE 1 RADIO SWEEP AND
MINOR DECIMETRIC RADIO BURSTS. IN ADDITION REGION 2691 (N05W41)
HAS PRODUCED SUBFLARES AND GROWN SLIGHTLY. REGION 2680 (S32W38)
HAS SIMPLIFIED MAGNETICALLY BUT STILL DISPLAYS AN E-TYPE SPOT
GROUP WITH LARGE TRAILER SPOTS. ALL OTHER DISK AND LIMB FEATURES
APPEAR QUIET AND STABLE. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT PRESENT MODERATE
LEVEL WITH THE GOOD POSSIBILITY OF M-CLASS X-RAY, FROM ANYWHERE
ALONG THE LONG NEUTRAL LINE COMMON TO REGIONS 2684-2687 (N11W41)-
2691. ALSO REGION 2697 HAS M-CLASS FLARE POTENTIAL. REGION 2680
HAS GOOD C-CLASS AND SLIGHT M-CLASS FLARE POTENTIAL.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TODAY AND IS EXPECTED
TO BE SLIGHTLY UNSETTLED FOR THE NEXT 48 HOURS. ON THE THIRD DAY,
AS A RESULT OF THE SMALL CORONAL HOLE PRESENTLY LOCATED JUST WEST
OF CENTRAL MERIDIAN, THE GEOMAGNETIC FIELD IS EXPECTED TO
BECOME UNSETTLED.

III. EVENT PROBABILITIES 25 SEPTEMBER - 27 SEPTEMBER

CLASS M 60/60/40

CLASS X 05/05/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 SEPTEMBER 190

PREDICTED 25-27 SEPTEMBER 195/200/200

90-DAY MEAN 24 SEPTEMBER 180

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 23 SEPTEMBER 06

ESTIMATED AFR/AP 24 SEPTEMBER 05/06

PREDICTED AFR/AP 25-27 SEPTEMBER 08/10 - 08/10 - 10/12

SOLTERWARN

BT