

HFUS 1 BOUL 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 273

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 29 SEPTEMBER 1980

IA. SOLAR ACTIVITY HAS BEEN LOW. SUBFLARE ACTIVITY 29 SEPTEMBER HAS BEEN OBSERVED IN REGIONS 2693 (N18W34), 2701 (N15E49), AND 2695 (S30W22), 2697 (S18W00). REGIONS 2695, 2697 HAVE EACH FLARED SEVERAL TIMES. A C1/SN CHARACTERIZED ONE FLARE FROM 2695. THE LARGEST X-RAY EVENT WAS AN UNASSOCIATED C5, MAXIMUM AT 0507 UT.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. SMALL FLARES ARE LIKELY FROM REGIONS 2701, 2697, 2695, 2693. REGION 2697 IS FAIRLY COMPLEX, APPEARS TO CONTAIN A DELTA AND THEREFORE IS PROBABLY CAPABLE OF A LARGE FLARE. REGION 2701 SHOWS THE LARGEST MAGNETIC GRADIENT AND IS ALSO QUITE COMPLEX AND IS ALSO A CANDIDATE FOR A LARGE FLARE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO NEAR UNSETTLED DURING THE LAST 24 HOURS. THE ACTIVITY IS EXPECTED TO INCREASE SLIGHTLY, BUT TO REMAIN UNSETTLED TO NEAR QUIET LEVELS THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 30 SEPTEMBER - 02 OCTOBER

CLASS M 45/45/45

CLASS X 01/01/01

PROMPT 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 SEPTEMBER 182

PREDICTED 30 SEPTEMBER - 02 OCTOBER 178/174/170

90-DAY MEAN 29 SEPTEMBER 180

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 28 SEPTEMBER 07

ESTIMATED AFR/AP 29 SEPTEMBER 08/09

PREDICTED AFR/AP 30 SEPTEMBER - 02 OCTOBER 08/14 - 07/12 - 07/12

SOLTERWARN

BT