

HFUS 1 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 193

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 16 JULY 1980

IA. SOLAR ACTIVITY HAS BEEN LOW. REGIONS 2562 (S12E03), 2565
(N19W70), 2572 (N13E54) HAVE PRODUCED A FEW SUBFAINT TO SUBNORMAL
OPTICAL EVENTS. REGIONS 2562, 2567 (S10E20), 2570 (S23E37) HAVE
PRODUCED C-CLASS X-RAYS ASSOCIATED WITH FLARE BRIGHTENING.

A NEW REGION 2575 (S23E05) HAS GROWN RAPIDLY AND CONTAINED AFS
EARLY HOURS OF THE DAY. REGION 2570 HAS SHOWN ENLARGED PENUMBRA
OF THE LEADER SPOT, AND A WEAK DELTA HAS APPEARED IN IT. REGION
2562 HAS FURTHER SIMPLIFIED, BUT THE GRADIENT APPEARS STRONGER
ALONG THE NEUTRAL LINE AND A DELTA PERSISTS. CORONAL RAIN AND
AN AREA OF BRIGHT FLARE HAS APPEARED NEAR NE20.

IB. SOLAR ACTIVITY MAY BE EXPECTED TO RISE TO MODERATE LEVELS
WITH MORE ACTIVITY POSSIBLE FROM REGIONS 2562, 2559 (N18W21) AND
FROM THE COMPLEX OF REGIONS IN THE SE QUADRANT CLOSER TO THE
LIMB.

II. GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD SHOULD BE QUIET
POSSIBLY BECOMING UNSETTLED MID-FORECAST INTERVAL DUE TO THE
INFLUENCE OF THE LARGE FLARE OF 14 JULY.

III. EVENT PROBABILITIES 17 JULY - 19 JULY

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 01/01/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 JULY 230

PREDICTED 17-19 JULY 242/250/248

90-DAY MEAN 16 JULY 201

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 JULY 09

ESTIMATED AFR/AP 16 JULY 09/12

PREDICTED AFR/AP 17-19 JULY 06/10 - 10/11 - 12/15

SOLTERWARN

BT