

HFUS 1 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 226

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

IA. A MAJOR SOLAR FLARE OCCURRED AT 1307Z (MAX) REACHING M3/2B CLASS. IT ORIGINATED IN REGION 2618 (S26E39) WHICH CONTINUES AS A SMALL CLASS D SPOT GROUP OF REVERSED POLARITY ARRANGEMENT. THE FLARE PRODUCED RADIO BURSTS OF 1204 FLUX UNITS AT 10 CM AND 80000 FLUX UNITS AT 245 MHZ. ONLY FOUR SMALL CLASS C EVENTS OCCURRED OTHERWISE. MINOR GROWTH HAS OCCURRED IN REGIONS 2614 (N14E19), 2615 (N05E17) AND 2620 (N11E39). NEW SMALL SPOTS HAVE APPEARED AT S12E66 (2622), N12E48 (2623), S15E84 (2624) AND N16E65 (2625). LARGE FILAMENTS DISAPPEARED EARLY TODAY FROM THE NORTHEAST QUADRANT FROM THE SAME LARGE-SCALE NEUTRAL LINE WHERE EQUATORIAL FILAMENTS DISAPPEARED YESTERDAY.

IB. SOLAR ACTIVITY WILL REMAIN NEAR THE PRESENT LEVEL WITH CLASS M FLARES OCCURRING ONLY ONCE OR TWICE DURING THE NEXT THREE DAYS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. QUIET CONDITIONS WILL GIVE WAY TO ACTIVE TO UNSETTLED CONDITIONS MIDDAY TOMORROW AS THE EARTH ENCOUNTERS AN INTERPLANETARY SECTOR BOUNDARY WITH TURBULENCE. THE REMAINDER OF THE FORECAST PERIOD WILL THEN BE UNSETTLED WITH OCCASIONAL ACTIVE PERIODS.

III. EVENT PROBABILITIES 14 AUGUST - 16 AUGUST

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 AUGUST 190

PREDICTED 14-16 AUGUST 193/193/188

90-DAY MEAN 13 AUGUST 195

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 12 AUGUST 08

ESTIMATED AFR/AP 13 AUGUST 05/09

PREDICTED AFR/AP 14-16 AUGUST 18/18 - 14/12 - 18/15

SOLTERWARN

BT