Figure 2 (FER-205). Official Maps of Special Studies Zones for the 1974 El Centro quadrangle and 1980 Alamorio, Brawley, and Holtville West quadrangles (CDMG 1974 and 1980) showing the Imperial, Brawley, and Rico faults. Sources of original fault traces (shown uncolored) are identified for each quadrangle by asterisks on reference lists (see map). Traces of 1979 fault ruptures as mapped by Sharp and others (1982) are shown in orange color.

EXPLANATION

(uncolored) — Historic and Holocene fault traces shown on 1974 El Centro quadrangle and 1980 Brawley, Alamorio, and Holtville West quadrangles (see Reference lists on map for sources); long dash is approximate and short dash is inferred; date indicates year of fault-rupture.

1979 fault-rupture traces of Sharp and others (1982); dotted where inferred.

Special Studies zones boundaries defined by turning points and connecting straight lines established in 1974 (El Centro map) and 1980 (other maps).

REFERENCES USED TO COMPILE FAULT DATA
1980 Revised SSZ Map
Brawley Quadrangle

Allen, C.R., Wyss, M., Brune, J.N., Grantz, A., and Wallace, R.E., 1972, Displacement on the Imperial, Superstition Hills, and San Andreas faults triggered by the Borrego Mountain earthquake in The Borrego Mountain earthquake of April 9, 1968: U.S. Geological Survey Professional Paper 787, p. 87-104, figure 54.

1979 & Holocene traces largely coincide; not differentiated on map of Brawley qd.

*Hart, E.W., 1979, Preliminary map of October 1979 fault rupture, Imperial and Brawley faults, Imperial County, California, Supplement No. 1 to Fault Evaluation Reports FER-78 and FER-83: Unpublished report of California Division of Mines and Geology, text, 6 map sheets.

*Sharp, R.V., 1977, Holocene traces of the Imperial fault in south-central Imperial Valley, California: U.S. Geological Survey Open File Report 77-815, Sheet 1 of 5.

REFERENCES USED TO COMPILE FAULT DATA
1980 REVISED SSZ Map
Alamorio Quadrangle

*Hart, E.W., 1979b, Preliminary map of October 1979 fault rupture, Imperial and Brawley faults, Imperial County, California, Supplement No. 1 to Fault Evaluation Reports FER-78 and FER-83: Unpublished report of California Division of Mines and Geology, text, 6 map sheets.

*Sharp, R.V., 1976, Surface faulting in Imperial Valley during the earthquake swarm of January-February 1975: Bulletin of the Seismological Society of America, v. 66, No. 4, p. 1145-1154.

*Sharp, R.V., 1977a, Map showing Holocene surface expression of the Brawley fault, Imperial County, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-838.

REFERENCES USED TO COMPILE FAULT DATA
1974 SSZ MAP
El Centro Quadrangle

*Allen, C.R., et al., 1972, Displacement on the Imperial, Superstition Hills, and San Andreas faults triggered by the Borrego Mountain earthquake in The Borrego Mountain earthquake of April 9, 1968: U.S. Geological Survey Professional Paper 787, p. 87-104, fig. 54.

REFERENCES USED TO COMPILE FAULT DATA
1980 Revised SSZ Map
Holtville West Quadrangle

Allen, C.R., Wyss, M., Brune, J.N., Grantz, A., and Wallace, R.E., 1972, Displacements on the Imperial, Superstition Hills, and San Andreas faults triggered by the Borrego Mountain earthquake in The Borrego Mountain earthquake of April 9, 1968: U.S. Geological Survey Professional Paper 787, p. 87-104, fig. 54.

Brune, J.N., and Allen, C.R., 1967, A low stress-drop, low magnitude earthquake with surface faulting: The Imperial, California, earthquake of March 4, 1966: Bulletin of the Seismological Society of America, Vol. 57, No. 3, p. 501-514.

*Hart, E.W., 1979b, Preliminary map of October 1979 fault rupture, Imperial and Brawley faults, Imperial County, California, Supplement No. 1 to Fault Evaluation Reports FER-78 and FER-83: Unpublished report of California Division of Mines and Geology, text, 6 map sheets.

*Sharp, R.V., 1977a, Map showing Holocene surface expression of the Brawley fault, Imperial County, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-838.

*Sharp, R.V., 1977b, Holocene traces of the Imperial fault in south-central Imperial County, California: U.S. Geological Survey Open-File Report 77-815, Sheet 3 of 5.

SCALE 1:24000

CONTOUR INTERVAL 5 FEET
DATUM IS MEAN SEA LEVEL

TOPOGRAPHIC BASE BY U.S. GEOLOGICAL SURVEY 1956