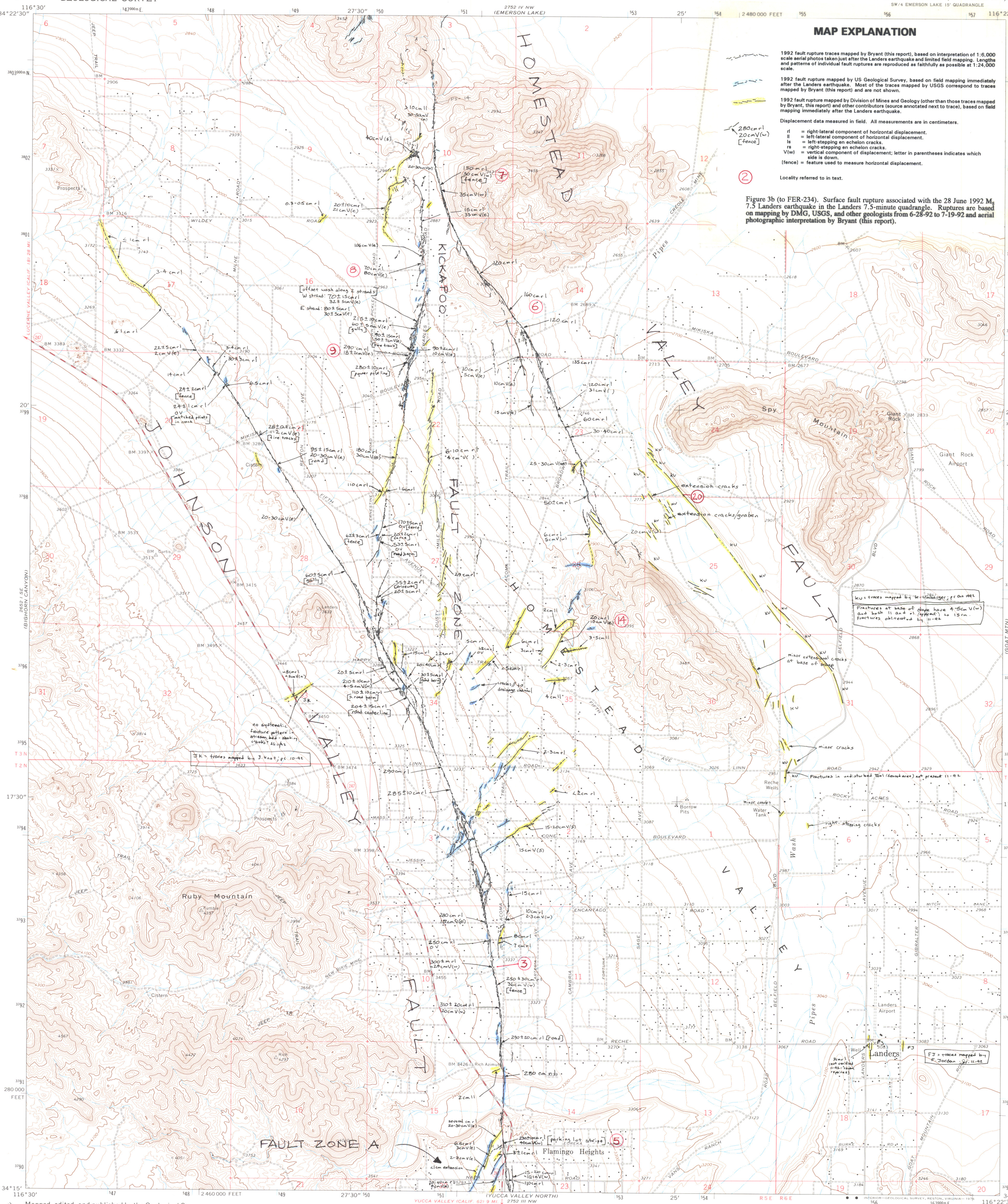
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LANDERS QUADRANGLE
CALIFORNIA—SAN BERNARDINO CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 EMERSON LAKE 15' QUADRANGLE



MAP EXPLANATION

1992 fault rupture traces mapped by Bryant (this report), based on interpretation of 1:6,000 scale aerial photos taken just after the Landers earthquake and limited field mapping. Lengths and patterns of individual fault ruptures are reproduced as faithfully as possible at 1:24,000 scale.

1992 fault rupture mapped by US Geological Survey, based on field mapping immediately after the Landers earthquake. Most of the traces mapped by USGS correspond to traces mapped by Bryant (this report) and are not shown.

1992 fault rupture mapped by Division of Mines and Geology (other than those traces mapped by Bryant, this report) and other contributors (source annotated next to trace), based on field mapping immediately after the Landers earthquake.

Displacement data measured in field. All measurements are in centimeters.

280cm rl
20cm V(w)
[fence]

rl = right-lateral component of horizontal displacement.
ll = left-lateral component of horizontal displacement.
ls = left-stepping en echelon cracks.
rs = right-stepping en echelon cracks.
V(w) = vertical component of displacement; letter in parentheses indicates which side is down.
[fence] = feature used to measure horizontal displacement.

② Locality referred to in text.

Figure 3b (to FER-234). Surface fault rupture associated with the 28 June 1992 M_s 7.5 Landers earthquake in the Landers 7.5-minute quadrangle. Ruptures are based on mapping by DMG, USGS, and other geologists from 6-28-92 to 7-19-92 and aerial photographic interpretation by Bryant (this report).

Mapped, edited, and published by the Geological Survey in cooperation with California Department of Water Resources

Control by USGS, NOS/NOAA, and USCE

Topography by photogrammetric methods from aerial photographs taken 1970. Field checked 1972

Projection and 10,000-foot grid ticks: California coordinate system, zone 5 (Lambert conformal conic)
1000-metre Universal Transverse Mercator grid ticks, zone 11, shown in blue. 1927 North American datum

Where omitted, land lines have not been established

UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, hard surface — Light-duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

LANDERS, CALIF.
SW/4 EMERSON LAKE 15' QUADRANGLE
N3415—W11622.5/7.5

1972

AMS 2752 IV SW—SERIES V895

2345