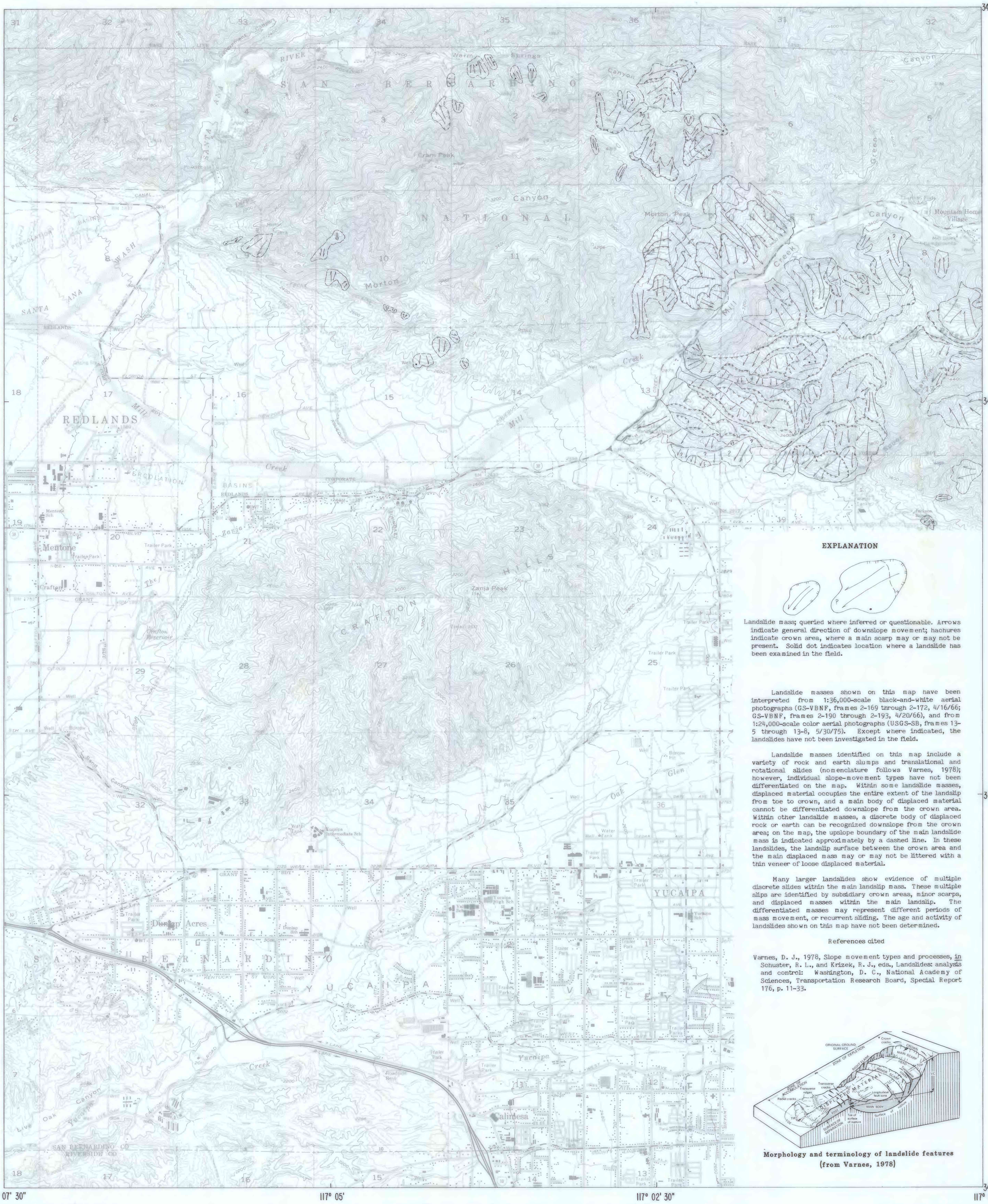
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OPEN-FILE REPORT
84-520



EXPLANATION

Landslide mass; queried where inferred or questionable. Arrows indicate general direction of downslope movement; hachures indicate crown area, where a main scarp may or may not be present. Solid dot indicates location where a landslide has been examined in the field.

Landslide masses shown on this map have been interpreted from 1:36,000-scale black-and-white aerial photographs (GS-VBNF, frames 2-169 through 2-172, 4/16/66; GS-VBNF, frames 2-190 through 2-193, 4/20/66), and from 1:24,000-scale color aerial photographs (USGS-SB, frames 13-5 through 13-8, 5/30/75). Except where indicated, the landslides have not been investigated in the field.

Landslide masses identified on this map include a variety of rock and earth slumps and translational and rotational slides (nomenclature follows Varnes, 1978); however, individual slope-movement types have not been differentiated on the map. Within some landslide masses, displaced material occupies the entire extent of the landslip from toe to crown, and a main body of displaced material cannot be differentiated downslope from the crown area. Within other landslide masses, a discrete body of displaced rock or earth can be recognized downslope from the crown area; on the map, the upslope boundary of the main landslide mass is indicated approximately by a dashed line. In these landslides, the landslip surface between the crown area and the main displaced mass may or may not be littered with a thin veneer of loose displaced material.

Many larger landslides show evidence of multiple discrete slides within the main landslip mass. These multiple slips are identified by subsidiary crown areas, minor scarps, and displaced masses within the main landslip. The differentiated masses may represent different periods of mass movement, or recurrent sliding. The age and activity of landslides shown on this map have not been determined.

References cited

Varnes, D. J., 1978, Slope movement types and processes, in Schuster, R. L., and Krizek, R. J., eds., Landslides: analysis and control: Washington, D. C., National Academy of Sciences, Transportation Research Board, Special Report 176, p. 11-33.

Morphology and terminology of landslide features (from Varnes, 1978)

Base from U.S. Geological Survey, 1:24 000, Yucaipa, 1967 (photorevised 1980)

14½°

1/2 0 1 MILE

.5 0 1 KILOMETER

SCALE 1:24 000
CONTOUR INTERVAL 40 FEET

CALIF
AREA OF MAP

Photogeology interpreted by J.C. Matti, 1982, 1984

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.

PRELIMINARY LANDSLIDE MAP OF THE YUCAIPA 7.5' QUADRANGLE, CALIFORNIA

By
Jonathan C. Matti

1984