U.S. GEOLOGICAL SURVEY LIBRARY
FIELD RECORDS COLLECTION
DENVER, COLORADO

MALCOLM MALLORY CLARK
(1931 -)

NOTES, CORRESPONDENCE, PAPERS

1968 - 1992

(1.6 linear ft., 11 map folders, and 4 map rolls)

Malcolm M. Clark was born in Palo Alto, California, in 1931. He received a BS in geology at the University of California, Berkeley, in 1957, and a PhD from Stanford University in 1967. His career with the U.S. Geological Survey began in 1967 and continues to the present, where he remains in emeritus status after his 1994 retirement. His areas of study include glaciology and the geology of active faults. Clark is a fellow of the Geological Society of America, the Seismological Society of America, the International Glaciological Society, and the American Geophysical Union.

INVENTORY

By

Clay M. Martin
U.S. Geological Survey Field Records Collection
MS 914, Box 25046, Federal Center
Denver, CO 80225-0046
May 2008

Location of Field Notebooks: CS 23-12

POST-EARTHQUAKE INVESTIGATIONS OF THE BORREGO MOUNTAIN, CALIFORNIA EARTHQUAKE OF APRIL 9, 1968. 1968-1972.

Item Number	Description
MA-02736	Map folder with 17 items, including: - 9 paper copies of the Borrego Mountain, Brawley, Calipatria, Carrizo Mountain, Kane Spring, and Plaster City, California, 15 minute quadrangles, with geologic annotations. - 5 mylar greenline copies of portions of 7½ minute quadrangles showing fault-related geologic annotations. - 2 paper copies of the Borrego Mountain and Borrego Mountain SE 7½ minute quadrangles showing fault-related geologic annotations. - 1 aerial photograph with geologic annotations.

Published as: U.S. Geological Survey. Professional Paper 787. 1972.

SLIP RATES ON ACTIVE FAULTS OF THE NORTHERN MOHAVE DESERT, CALIFORNIA: GARLOCK FAULT. 1969-1972.

MA-02737	Map folder with 29 items, including: - 17 blueline copies of California State Department of Water Resources maps showing geology related to water pipelines and tunnels in southern California. - 12 blueline copies of portions of the Avawatz Pass, Cross Mountain, Cuddeback Lake, Leach Lake, Mojave, Quail Mountains, Searles Lake, and Wingate Pass 15 minutes quadrangles, California, with fault-related geologic annotations.
MA-02738	Map folder with 16 items, including: - 14 mylar greenline copies of the Cantil, Dome Mountain, El Paso Peaks, Frazier Mountain, Garlock, Lebec, LIebre Twins, Mojave, Monolith, Pastoria Creek, Saltdale SE, Tehachapi South, Tylerhorse Canyon, and Winters Ridge 7½ minute quadrangles, California, with fault-related geologic annotations. - 1 mylar greenline copy of the Cuddeback Lake 15 minute quadrangle, California, with fault-related geologic annotations. - 1 index map on mylar showing the San Andreas, Big Pine, and Garlock fault lineaments in the San Joaquin Valley, Sierra Nevad, and Mojave Deserts of southern California.
MA-02739	Map folder with paper copies of the Cantil, Christmas Canyon, Dome Mountain, El Paso Peaks, Frazier Mountain, Garlock, Klinker Mountain, Lebec, Liebre Twins, Mojave, Monolith, Pastoria Creek, Saltdale SE, Tehachapi South,

Tylerhorse Canyon, and Winters Ridge 7½ minute quadrangles, California, with fault-related geologic annotations. Total items: 34.

MA-02740 Map folder with mylar greenline copies of the Avawatz Pass, Cross Mountain, Leach Lake, Mojave, Quail Mountains, Searles Lake, and Wingate Pass 7½ minute quadrangles, California, with fault-related geologic annotations. Total items: 7.

Published as: U.S. Geological Survey. Miscellaneous Investigations Map I-741. 1973.

RECENTLY ACTIVE TRACES OF THE SAN ANDREAS FAULT IN THE SALTON TROUGH, SOUTHERN CALIFORNIA. 1969-1983.

RM-00009 Map roll with compilation mylar greenline map showing recently active breaks along the San Andreas and associated faults between the Salton Sea and Whitewater River-Mission Creek, California.

Published as: U.S. Geological Survey. Miscellaneous Geologic Investigations Map I-1483. 1984.

MODERN GROUND FAILURE IN THE GARLOCK FAULT ZONE, FREMONT VALLEY, NORTHERN MOHAVE DESERT, CALIFORNIA. 1969-1983.

MA-02741 Map folder with 35 items, including:

- 23 paper copies of the Cache Peak, California City North, Cantil, Cinco, Garlock, Mojave NE, Saltdale NW, Saltdale SE, and Spangler Hills East 7½ minute quadrangles, California, with geologic annotations.
- 2 photocopied portions of 7½ minute quadrangles, California, with geologic annotations.
- 1 geologic cross section diagram showing well locations and depths.
- 5 advance sheets of the California City North, Cantil, Cinco, Mojave NE, and Saltdale SE 7½ minute quadrangles, California, with geologic annotations.
- 4 geologic detail maps with annotations in colored pencil.

RM-00010 Map roll with 4 compilation mylar greenline maps showing geologic features associated with ground failure in the Garlock fault zone.

Published as: Geological Society of America. Bulletin, V. 100, p. 677-691. 1988.

INVESTIGATIONS FOLLOWING THE SAN FERNANDO, CALIFORNIA EARTHQUAKE OF FEBRUARY 9, 1971. 1971.

MA-02742 Map folder with 20 items, including:

- 4 paper copies of the San Fernando and Sunland 7½ minute quadrangles, California, with geologic annotations.
- 1 mylar copy of the San Fernando 7½ minute quadrangle, California, with geologic annotations.
- 1 mylar copy of a portion of the Fernando 7½ minute quadrangle, California, with annotations showing earth cracks in the city of San Fernando.
- 13 diagrams showing the mechanics of movement along theoretical fault blocks.
- 1 aerial photograph showing earthquake damage to streets and sidewalks, location unknown.

Published as: U.S. Geological Survey. Professional Paper 733. 1971.

THE GARLOCK FAULT AND ASSOCIATED FAULTS, CALIFORNIA. 1971.

MA-01714 Map folder with maps showing recently active breaks along the Garlock and associated faults. Set of maps prepared in cooperation with the California Division of Mines and Geology. Total items: 3.

RECENTLY ACTIVE TRACES OF THE ELSINORE FAULT, SOUTHERN CALIFORNIA. 1971-1981.

RM-00011 Map roll with 2 compilation mylar greenline maps showing recently active breaks along the Elsinore and associated faults between Lake Henshaw, California, and Mexico.

Published as: U.S. Geological Survey. Miscellaneous Investigations Map I-1329. 1982.

SLIP RATES ON ACTIVE FAULTS OF CALIFORNIA: THE OWENS VALLEY FAULT ZONE. 1972-1992.

NO-10616 Document box with 4 expandable envelopes with aerial photographs of the Owens Valley fault zone, some with annotations.

NO-10617 Document box with:

- 2 expandable envelopes with aerial photographs of the Owens Valley fault zone, some with annotations.

- 1 expandable envelope with a copy of a manuscript by Sarah Beanland and Malcolm Clark entitled *The Owens Valley fault zone, eastern California, and surface rupture associated with the 1872 earthquake*. Also included are various memoranda and edited pages related to the manuscript.

NO-10618 Document box with:
- 3 expandable envelopes with a copies of a manuscript by Sarah Beanland and Malcolm Clark entitled *The Owens Valley fault zone, eastern California, and surface rupture associated with the 1872 earthquake*. Also included are various memoranda, edited pages and figures related to the manuscript, and miscellaneous background data for the project.
- 1 expandable envelope with paper copies of fault mapping of the southwest quarter of the Wacucoba Mountain 15 minute quadrangle by Sarah Beanland, 21 paper copies of 7 ½ minute quadrangles of the Owens Valley with geologic annotations, and 4 photocopies of miscellaneous maps with geologic annotations.
- 1 expandable envelope with 10 paper copies of 15 minute quadrangles of the Owens Valley with geologic annotations, 4 aerial photographs with related tracings of geologic features in the Owens Valley, and 10 trench photographs with related diagrams from excavations along fault zones in the Owens Valley.

NO-10619 Sarah Beanland, M.M. Clark. Field notebook with fault profiling information and geologic data from the Owens Valley. No date.

NO-10620 Sarah Beanland, M.M. Clark. Field notebook with fault profiling information and geologic data from the Owens Valley. September 1985.

MA-02744 Map folder with 55 items, including:
- 18 acetate copies of maps showing aerial survey traverses in southern California.
- 20 original figures in ink on mylar showing geology related to fault scarps in southern California.
- 5 paper copies of the Bartlett, Fish Springs, Lone Pine, Tinemaha Reservoir, and Union Wash 7½ minute quadrangles, California, with fault-related geologic annotations.
- 12 mylar greenline copies of the Bartlett, Bee Springs Canyon, Big Pine, Blackrock, Fish Springs, Independence, Lone Pine, Manzanar, Olancha, Tinemaha Reservoir, and Union Wash 7½ minute quadrangles, California, with fault-related geologic annotations.

Published as: U.S. Geological Survey. Bulletin 1982. 1994.

OROVILLE, CALIFORNIA POST-EARTHQUAKE FIELD INVESTIGATION. 1975-1976.

MA-02745 Map folder with paper copies of the Bangor and Oroville Dam Fernando 7½ minute quadrangles, California, showing locations of surface ruptures and changes in elevations of benchmarks resulting from the earthquake of August 1, 1973. Total items: 3.

Published as: Seismological Society of America Bulletin. V. 66, p. 1101-1110. 1976.

POST-EARTHQUAKE INVESTIGATIONS OF THE MAMMOTH LAKES EARTHQUAKE OF MAY, 1980. 1980.

RM-00012 Map roll with 2 mylar greenline compilation maps showing surface ruptures associated with the Mammoth Lakes, California, earthquakes of May, 1980.

Published as: U.S. Geological Survey. Miscellaneous Field Studies Map MF-1396. 1982.

POST-EARTHQUAKE INVESTIGATIONS OF THE 1987 SUPERSTITION HILLS EARTHQUAKE, SALTON TROUGH, IMPERIAL COUNTY, CALIFORNIA. 1987-1988

NO-08635 Clark was coauthor with Kenneth W. Hudnut, of the Lamont-Doherty Geological Observatory, of "New Slip Along Parts of the 1968 Coyote Creek Fault Rupture, California." This file includes drafts of the article, reviewer's comments, and correspondence between the authors. There is also a copy of a 2-page report, "The Role of Block Rotation in Wrench Tectonics Along the San Jacinto Fault Zone, Southern California," by Leonardo Seeber and Kenneth W. Hudnut, April 18, 1988. An attached note by Hudnut describes the report as "a short description of my trenching studies results along the main ruptures of the November '87 earthquakes."

MA-01838 Map folder with a field compilation map of surface ruptures created by the Borrego Mountain earthquake of April 9, 1968.

Published as: Seismological Society of America *Bulletin*, v. 79 (1989), p. 451-465.