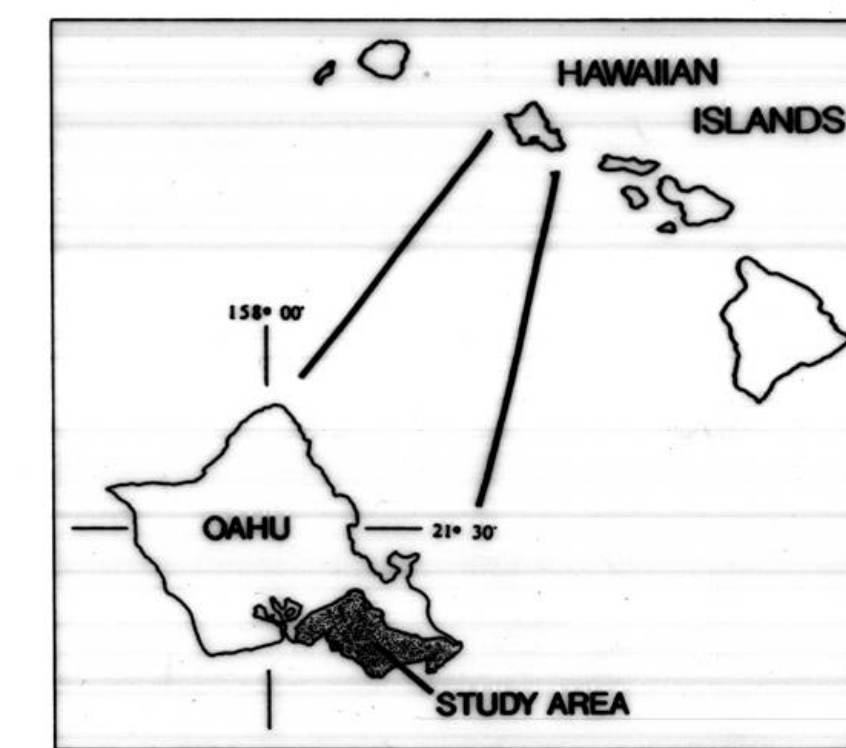
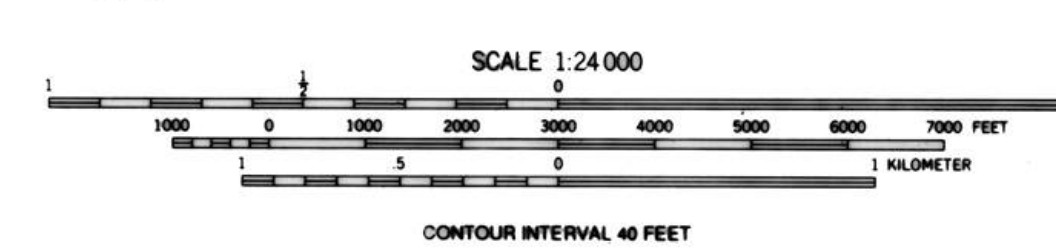


- EXPLANATION**
- Soil slips and debris flows mapped from 1940-1943 aerial photographs.  
See appendix for dates of photography.
- Peak features**
- Soil-slip scar
  - Debris-flow travel path
  - Mappable landslide, possibly of weathered bedrock (supra)
- Subsided features**
- Soil-slip scar
  - Debris-flow travel path
  - Mappable landslide, possibly of weathered bedrock (supra)
- Area of pronounced soil-slip effects, typically including deflation pits and dunes
- Fan-shaped deposit that suggests abundant ancient debris flows.  
Boundary dashed where approximately located
- Boundary of large source for debris flows or debris avalanches
- Deposit of probable prehistoric debris avalanche from Round Top
- Boundary of photo coverage
- Boundary of study area

Base prepared from U.S. Geological Survey, Honolulu, 1902.  
Kanaka, 1905; Kalaheo Head, 1905; Pearl Harbor, 1905



This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey standard maps. Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

**DEBRIS FLOWS AND RELATED FEATURES ON NATURAL HILLSLOPES IN THE HONOLULU DISTRICT  
PRIOR TO THE EARLY 1940'S**

By  
David M. Peterson, Stephen D. Ellen, and Donna L. Knifong  
1993