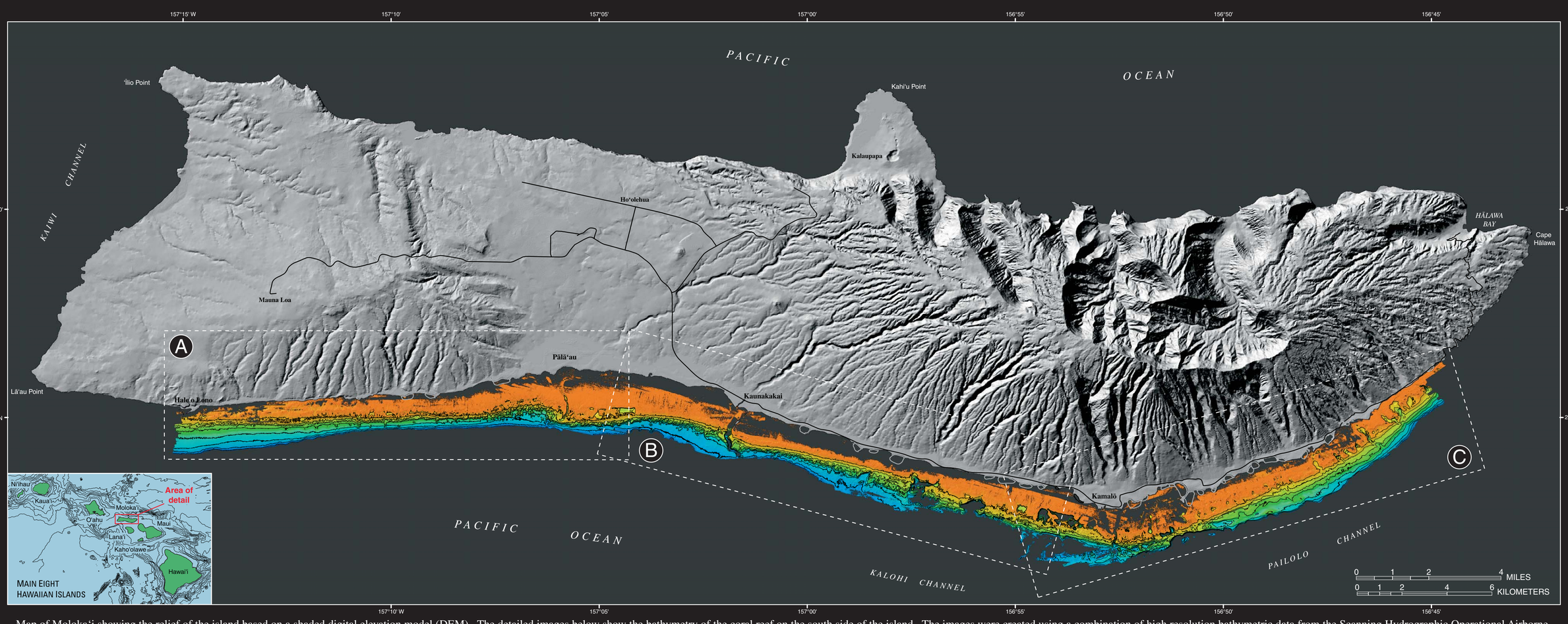
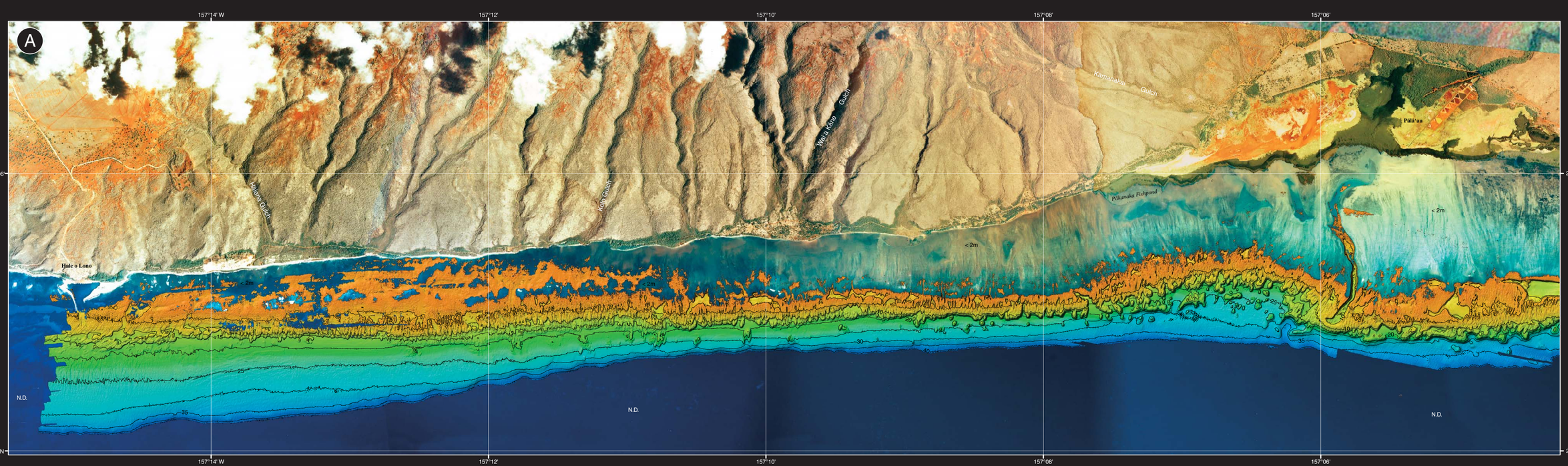
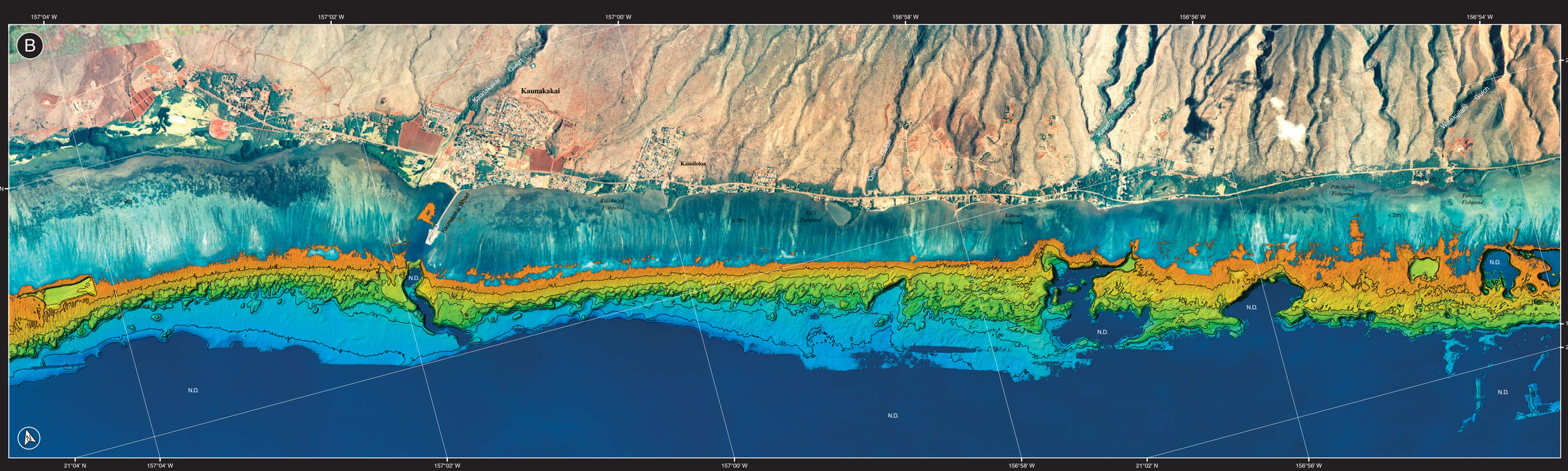
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

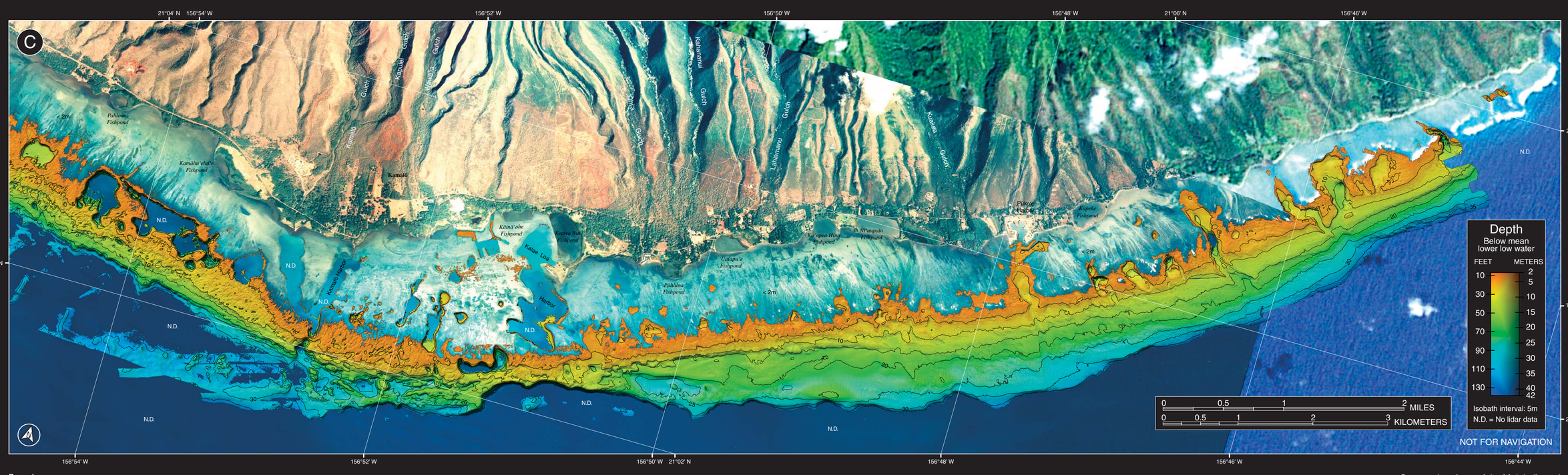
SCIENTIFIC INVESTIGATIONS MAP 2886



Map of Moloka'i showing the relief of the island based on a shaded digital elevation model (DEM). The detailed images below show the bathymetry of the coral reef on the south side of the island. The images were created using a combination of high resolution bathymetric data from the Scanning Hydrographic Operational Airborne Lidar System (SHOALS), aerial photography from the National Oceanographic and Atmospheric Administration (NOAA), and Landsat TM satellite data. The bathymetry is shown for areas between 2 and 42 m below mean lower low water, and is not continuous. Some areas, which are within the survey boundaries and between these depths, may not be represented in the data due to difficulty in acquisition caused by turbidity or waves.







Base Imagery:
U.S. Geological Survey 10m Digital Elevation Model (DEM) hillshade; 1993 NOAA aerial photography, compiled and mosaicked by the U.S. Geological Survey Terrestrial Remote Sensing Team; Landsat TM satellite imagery, acquired March 21, 2002, used for northern areas not covered by aerial photography (portions of maps A and C).

Perspective views of the Moloka'i coral reef can be found on the reverse side.

Lidar Bathymetry and Aerial Photography

Bathymetry and Selected Views of the Fringing Coral Reef, South Moloka'i, Hawaii

By
Joshua B. Logan, Michael E. Field, and Pat S. Chavez

2005