

## POST CRUISE INFORMATION

**Serial Number:** 04021

**Platform:**



[PELICAN](#)

**Owner-Operator:** LUMCON,

**Captain:** Craig LeBoeuf

**Submersible:**

**Alternate number:** PE-04-49, P1-041-GM

**Center Principal and Affiliate Principal (if any):** Debbie Hutchinson  
Rob Evans - WHOI

**Start and End Dates:** June 20, 2004 to June 23, 2004

**Start and End Ports:** from Cocodrie, LA to Cocodrie, LA

**Area of Operations:** Mississippi Canyon, Gulf of Mexico, North America, North Atlantic

### Bounding Coordinates

**North:** 27.9666666666667

**South:** 27.9166666666667

**West:** -89.25

**East:** -89.3166666666667

**Objectives:** Collect bottom camera and electrical resistivity data across two possible gas hydrate mounds in the Mississippi Canyon, northern Gulf of Mexico, as part of a site survey for the JIP/DOE Gas Hydrates Drilling Program.

**Type of Activity:** Bottom Photography; Bottom resistivity profiling (WHOI)

**Information to be derived:** Sea Floor Map; Bottom imagery to investigate benthic distribution and gas hydrate; Electrical Resistivity profiles across mounds and at drilling transects.

June 23, 2005

Coastal and  
Marine Geology  
Program



*Other CMGP  
Science Centers*

St. Petersburg, FL

Menlo Park, CA

**Summary of Results:** This was a successful cruise with 5973 bottom images collected on four tows; the EM data fulfilled the objective of showing proof of concept for the system (17 km on 9 lines).

**Days at Sea:** 3

**Remarks:** This is a follow up cruise to G1-03-GM (WH field activity 03001). This cruise is only at the Atwater Valley site in the Mississippi Canyon. The bottom camera work is the USGS portion (contracted to WHOI). The bottom resistivity is not USGS, but is part of the larger gas hydrates program in the northern Gulf of Mexico.

**Scientific Equipment:** Bathymetry-12Khz from the Pelican YoNav - from MP

Rob Evans bottom resistivity streamer;; Dan Fornari small camera system (WHOI TowCam on a modified CTD frame built for this cruise)

**Navigation techniques used:** DGPS (CSI receiver, WAAS) with YoNav software

**Scientific Party (USGS):** Lauren Gilbert, watch; John Evans, watch, camera nav.

**Scientific Party (affiliate):** Rob Evans, WHOI, Chief Sci.; ; Dan Fornari, WHOI, Camera Scientist; Mike Boyle, USGS-MP, Navigation, tech. support; Marshall Swartz, WHOI, Camera tech.; Alan Gardner, WHOI, EM tech.; Jennifer Dougherty, USGS-MP, Watch, GIS

**Cruise Funding Source:** DOE OFA

**Project Title:** USGS Gas Hydrates

**Contract:**

**Tabulated Information:**

**Days at Sea:** 3

**Continuous Data (in Km):** 17 km

**Number of Stations Occupied:** 5973

**Number of Submersible Dives:**

**Station Description:**

**Seismic Line Descriptions:**

**Track Plot:**

**Related Web Sites:** <http://soundwaves.usgs.gov/2004/08/fieldwork2.html>

*Report Date:* 17:09 3/4/2005  
*Submitted by:* Debbie Hutchinson

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#) | [Coastal and Marine Geology](#) | [Woods Hole Science Center](#)

URL: [http://quashnet.er.usgs.gov/data/2004/04021/far\\_04021.html](http://quashnet.er.usgs.gov/data/2004/04021/far_04021.html)

Page Contact Information: [webmaster-woodshole@usgs.gov](mailto:webmaster-woodshole@usgs.gov)

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