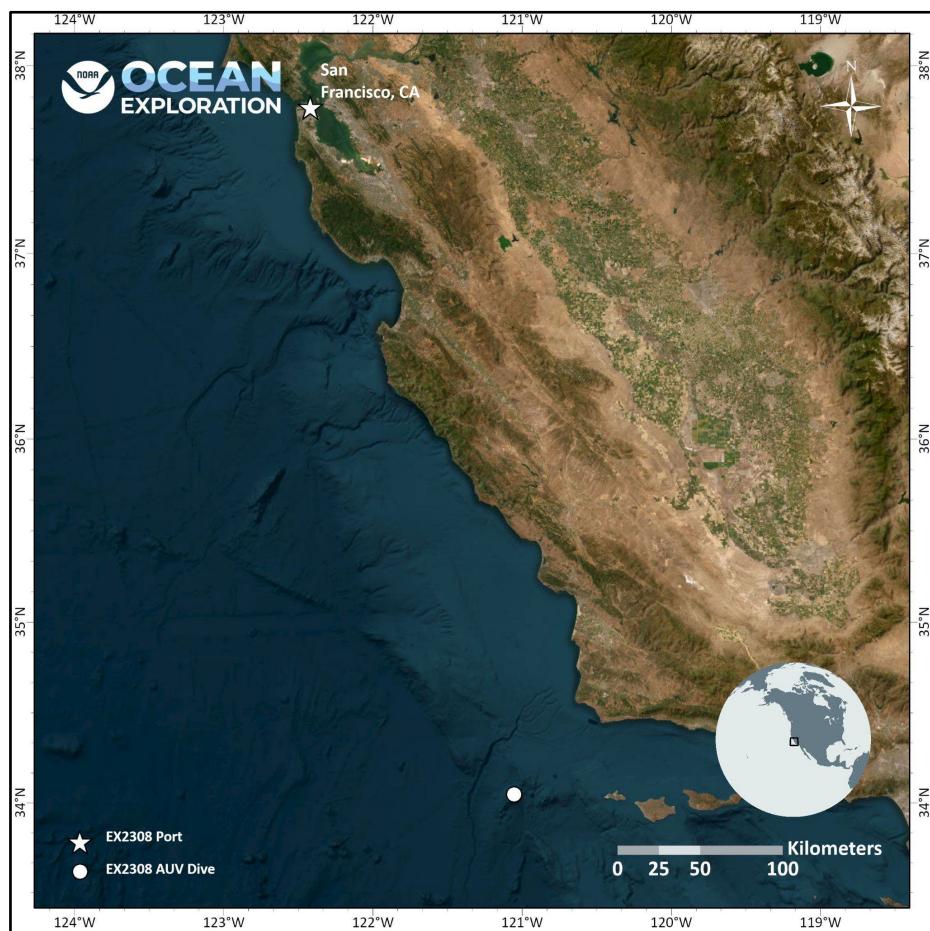


AUV Dive Summary, EX-23-08, Dive 03, October 31, 2023

General Location Map



Dive Information

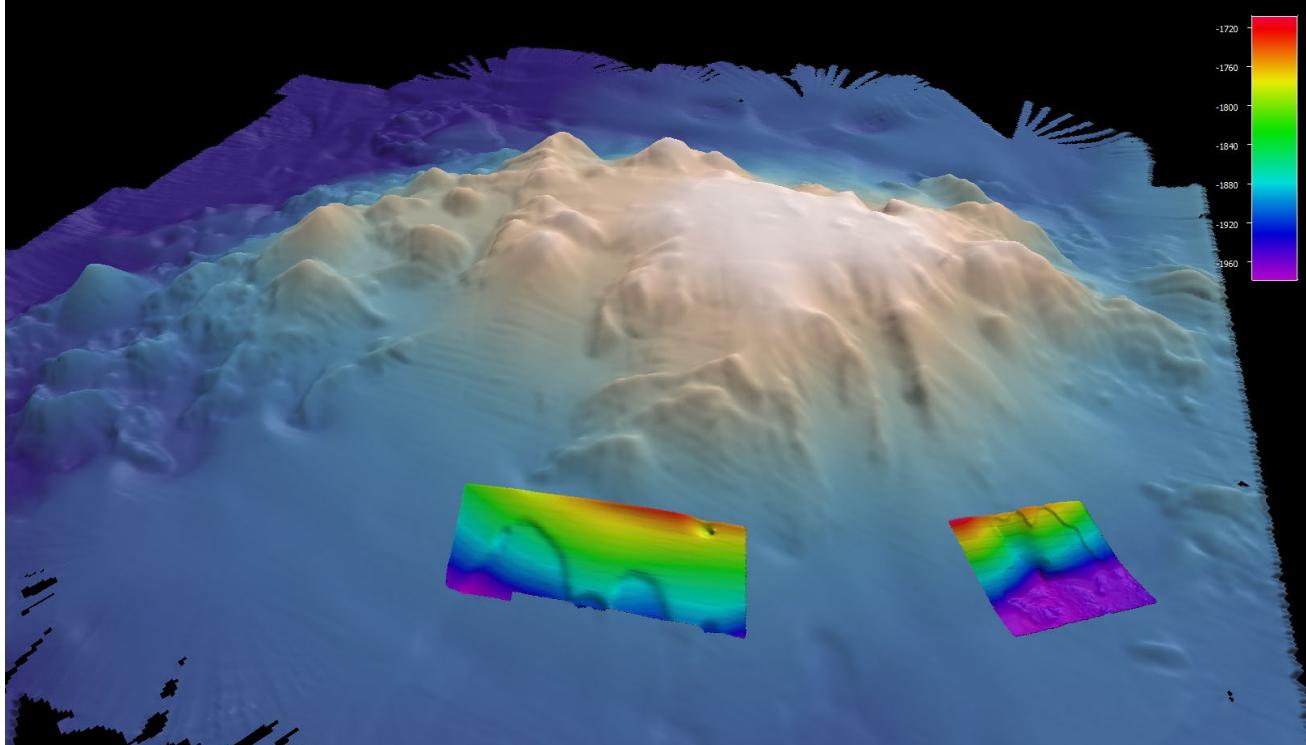
Site Name	Rodriguez Seamount
General Area Descriptor	Pacific Ocean, Central California Coast
Science Team Leads	Leonardo Macelloni and Marco D'Emidio
Expedition Coordinator	Sam Cuellar
AUV Supervisor/	Max Woolsey and Roy Jarnigan, University of Southern Mississippi

Operating Organization	
Mapping Lead(s)	Dan Freitas and Anna Coulson
Dive Purpose	Collect bathymetry, subbottom, and magnetometer data along the base of the Rodriguez Seamount to better understand formation processes.
Was the dive restricted for Underwater Cultural Heritage?	No
Standard AUV Dive Summary Data	<p>Start time [UTC]: 10/31/2023 16:27:00</p> <p>Start Location: 34.0335, -121.0473</p> <p>End time [UTC]: 11/1/2023 20:55:00</p> <p>Dive duration: 28h 28min</p> <p>Distance traveled: 12,570m</p> <p>Depths surveyed: Up to -1954m</p>
Dive Description	<p>Eagle Ray conducted a ~28.5 hour dive, collecting high-resolution bathymetry, subbottom, and magnetometer data, focusing on the base of the Rodriguez Seamount. Descending onto the top of the seamount and proceeding down a safe navigation path to the base, the vehicle flew at an altitude of ~50m for the duration of the survey. No technical issues were noted.</p>

Equipment Deployed

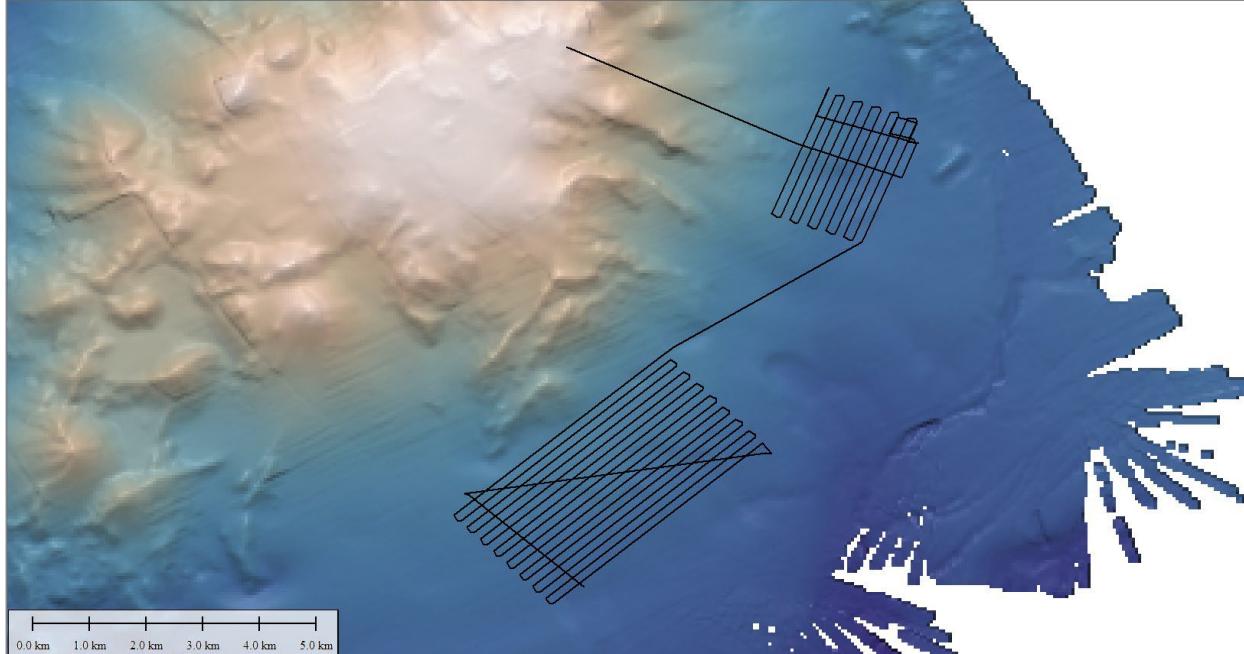
AUV	<i>Eagle Ray</i>
AUV Equipment Payload	Norbit WBMS multibeam echosounder (512 beams, 400kHz, depth resolution <10mm), GeoAcoustics polarity-preserving CHIRP subbottom profiler (3.5-12 kHz), SeaBird FastCAT CTD, Ocean Floor Geophysics Magnetometer
Equipment Malfunctions	None
Data Types Collected	Multibeam bathymetry, backscatter, water column. sub-bottom profile, magnetometer

Overview Map of Main Dive Site



Map representative of area and survey conducted by AUV. This may vary slightly depending on the model of AUV and associated software.

Overview of AUV Dive Plan



Scientists Involved (provide name, email, affiliation)

Name	Email	Affiliation
Sam Cuellar	samuel.cuellar@noaa.gov	NOAA Ocean Exploration
Leonardo Macelloni	leonardo.macelloni@usm.edu	University of Southern Mississippi
Marco D'Emidio	marco.demidio@usm.edu	University of Southern Mississippi
Max Woolsey	max.woolsey@gmail.com	University of Southern Mississippi
Roy Jarnagin	roy.jarnagin@usm.edu	University of Southern Mississippi
Agno Rubim de Assis	agno.assis@usm.edu	University of Southern Mississippi
Bradley Battista	bbattista@gmail.com	EnerGeo Solutions/ University of Southern Mississippi
Anna Coulson	annamcoulson@gmail.com	University Corporation for Atmospheric Research
Dan Fretas	dcfreistasconsult@gmail.com	University Corporation for Atmospheric Research

Please direct inquiries to:

NOAA Office of Ocean Exploration & Research
 1315 East-West Highway, SSMC3 RM 10210
 Silver Spring, MD 20910
oceanexplorer@noaa.gov