Project Title: IWISE PILOT Experiment, 2010
Project Short Title: IWISE Pilot
UNOLS Project ID #: 102019
Last Modified: 6/22/2009 5:21:00 PM
Project Status: Submitted
Version #: 2
Date Submitted: 5/22/2009

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Science Discipline: Physical Oceanography
Large Program Abbr:
If Other Science Discipline, specify:
Large Program Comments: IWISE

Project Status: New Proposal
Agency/Division/Program
Grant/Project Number
Agency Funding Status
NAVY/ONR
Pending

Agency Description: ONR Code 32
Institutional Proposal #:
Proposal Deadline submitted for:
Project Start Date: 10/01/2009
End Date: 10/01/2011
Project Budget: $100,000

Year | Ship(s) Requested (Name Or Size) | Total Days Req. | Start Date | Repeat/Multi-ship/ Clearance Req./Estimated Cost
--- | --- | --- | --- | ---
2010 | Roger Revelle | 0 | 4/15/2010 | N/Y/Y/0
Project Webpage:

Summary of Field Work: Exploration of Luzon Strait and points west to ~120E to document the growth of large-amplitude internal solitary waves.

10 days Global ship. Ship time to be used when the vessel is stationed in Taiwan / Philippines awaiting the occurrence of a typhoon. I will use the HDSS doppler Sonars on the Revelle and the ship’s CTD to collect time-series measurements at ~3 sites. Depending on reconnaissance by colleagues, the stations will be located near 120.5E or in Luzon Strait. The ships dynamic positioning system will be used to maintain these stations.

Summary of Facility Requirements: Revelle HDSS Deep profiling Doppler Sonar or ship’s ADCP

- Ships CTD
- Ships dynamic positioning system

Summary of Other Requirements or Comments: Early summer summer weather-Kuroshio window desireable. Spring-tide deployment highly desireable.

Ship time to be used during the 90 day window when the vessel is stationed in Taiwan / Philippines awaiting the occurrence of a typhoon. The typhoon study will have priority, & my science program will be suspended if the ships is needed for its principal mission.

Ideally, the time requested is separate from the time requested by other IWISE PIs who will be launching gliders, deploying moorings, etc. If logistically attractive, my requested time can be added to the leg of another IWISE PI.
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PI Name: Robert Pinkel
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Institution: SIO - UCSD, Scripps Institution of Oceanography
Funding Agencies: NAVY/ONR

UNOLS Request ID #: 1002959
Request Type: Collaborative
Submitted By: Robert Pinkel

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Year  Ship/Facility  Optimum Start  Earliest Start  Latest Start

Dates To Avoid: The phenomenon only occurs in Spring, early Summer.

Op Days Needed
Science Days  Mob Days  DeMob Days  Transit Days (Est)  Total
0  0  0  0  0

Multi-Ship OP? Yes  Description: Work in conjunction with Taiwanese vessels OR-1 and OR-3
Repeating Cruise? No  # of Cruises: 0  Interval:
Repeating Description: IWISE follow-on cruises are expected for 2012
Schedule Justification: Scheduling relative to spring-tides is a priority. HDSS on Revelle needed for velocity profiling.

Lat/Long  Marsden Grid  Navy Op Area
Beginning  22.113° N/121.969° E  96  NP10
Ending  21.139° N/121.622° E  96  NP10

Op Area Summary: S.ChinaSea
Op Area Size: zonal-500 nm. Meridional: 200 nm
Op Area Details: far Western pacific through Luzon Strait into eastern S.China Sea.

Foreign Clearance Required: Yes
Coastal States:
Foreign Clearance Comments: Philippines

Start Port: None
Intermediate Ports: None
End Port: None
Port Explanation: Kaohsiung to Kaohsiung
Chief Scientist: Robert Pinkel

# in Science Party: 15  # of Science Teams: 3  # of Marine Techs: 1

Science Party Explanation: Participants from SIO, URI, WHOI, UW

Instrumentation that affects scheduling
  Dynamic Positioning
  Other Operator Provided Inst. - Describe
  Vans (2)

Instrumentation Explanation: Hydrographic Doppler Sonar on the RV Revelle

Major Ancillary Facilities

Ancillary Facilities Explanation: Hydrographic Doppler Sonar on the RV Revelle