

November 13, 2003

## UNOLS Technical Services Information

	Topic	WHOI	MLML	OSU
<p>The outline of topics can be downloaded by clicking:  <a href="#">&lt;Tech_serv_outline.pdf&gt;</a></p> <p>The <b>full outline of technical services information</b> can be downloaded (pdf) or viewed on-line (html) by clicking the ship or institutional link in the columns to the right.</p>				
		<a href="#">Atlantis (pdf)</a>	<a href="#">Point Sur (pdf)</a>	<a href="#">Wecoma (pdf)</a>
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2.	Cruise Shipping Information	<a href="#">Atlantis</a>	<a href="#">Point Sur</a>	Wecoma
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6.	Hazardous Materials	Atlantis	<a href="#">Point Sur</a>	Wecoma
7.	Isotope regulations	Atlantis	<a href="#">Point Sur</a>	<a href="#">Wecoma</a>
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<b>E.</b>	<b>Marine Mammals and Acoustic Permitting</b>	<a href="#">All UNOLS Ships</a>		
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<b>V.</b>	<b>CRUISE PLANNING DETAILS</b>			
<b>A.</b>	<b>Laboratory Spaces</b>			
1.	Location of utilities (power, water, air, etc.)	Atlantis	<a href="#">Point Sur</a>	Wecoma
2.	Bench arrangements	Atlantis	<a href="#">Point Sur</a>	Wecoma
3.	Equipment tiedowns	Atlantis	<a href="#">Point Sur</a>	Wecoma
4.	Cold Storage (refrigerators, freezers)	Atlantis	Point Sur	Wecoma
<b>B.</b>	<b>Deck Spaces</b>			
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2.	Van/container locations / weight constraints	<a href="#">Atlantis</a>	<a href="#">Point Sur</a>	Wecoma
3.	Working areas (A-frames, cranes, winches)	<a href="#">Atlantis</a>	<a href="#">Point Sur</a>	Wecoma
4.	Tiedowns	Atlantis	<a href="#">Point Sur</a>	Wecoma
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<b>C.</b>	<b>Determining Personnel Requirements</b>	Atlantis	<a href="#">Point Sur</a>	<a href="#">Wecoma</a>
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<b>D.</b>	<b>Berthing Spaces, Restrictions and Assignments</b>	<a href="#">Atlantis</a>	<a href="#">Point Sur</a>	<a href="#">Wecoma</a>
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<b>H.</b>	<b>Access to transducer well, mast, etc.</b>	Atlantis	Point Sur	Wecoma
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<b>B.</b>	<b>Loading</b>	<a href="#">Atlantis</a>		
1.	Moving gear from storage to dock			
a.	Responsibilities of shipboard techs, scientists, crew, facility personnel	<a href="#">Atlantis</a>	<a href="#">Point Sur</a>	<a href="#">Wecoma</a>
b.	Liaison with shore service providers (cranes, trucks, forklift)	<a href="#">Atlantis</a>	<a href="#">Point Sur</a>	<a href="#">Wecoma</a>
c.	Costs	Atlantis	<a href="#">Point Sur</a>	Wecoma
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a.	Responsibilities of shipboard techs, scientists, crew, facility personnel	<a href="#">Atlantis</a>	<a href="#">Point Sur</a>	<a href="#">Wecoma</a>
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c.	Costs	Atlantis	<a href="#">Point Sur</a>	Wecoma
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2.	Location of utilities, wireways, stuffing tubes, etc.	<a href="#">Atlantis</a>	<a href="#">Point Sur</a>	<a href="#">Wecoma</a>
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a.	Cost estimates	Atlantis	Point Sur	Wecoma
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7.	Operation of underway data collection instrumentation	Atlantis	Point Sur	<a href="#">Wecoma</a>
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<b>D.</b>	<b>Lab/Deck Safety requirements</b>			
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<b>B.</b>	<b>Scientific Party - General Responsibilities (as it relates to science operations)</b>	Atlantis	<a href="#">Point Sur</a>	Wecoma
<b>C.</b>	<b>Shipboard technician(s) - Hours, Duties and Responsibilities</b>	<a href="#">Atlantis</a>	<a href="#">Point Sur</a>	<a href="#">Wecoma</a>
<b>D.</b>	<b>Ship's Crew Responsibilities</b>	<a href="#">Atlantis</a>	Point Sur	Wecoma
<b>E.</b>	<b>Ancillary Projects</b>	<a href="#">Atlantis</a>	Point Sur	<a href="#">Wecoma</a>
<b>F.</b>	<b>Science Operations</b>		Point Sur	Wecoma
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2.	Procedure for requesting additional assistance from crew or technicians	<a href="#">Atlantis</a>	Point Sur	Wecoma
3.	Operation of ship equipment (winches, cranes, wire use, etc)	Atlantis	Point Sur	Wecoma
<b>G.</b>	<b>Data Availability and Distribution</b>	Atlantis	Point Sur	Wecoma
<b>H.</b>	<b>Communications</b>			
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