



Photo by Val Ihde

# R/V SIKULIAQ

AICC November 13, 2014



UNIVERSITY OF ALASKA FAIRBANKS  
*America's Arctic University*

# R/V SIKULIAQ Characteristics

Length, Overall	LOA	261 feet
Length, Design Waterline	LWL	237 feet 0 inches
Beam, Max across reamer	Bmax	52 feet
Beam, Max across hull amidship	Bmidship	48 feet
Depth, Keel to Main Deck	D	28 feet
Draft, Design Waterline	TDWL	18 feet 9 inches
Freeboard, Design Waterline	FDWL	8 feet 9 inches
Displacement at Design Waterline		3,665 long tons
Propulsion Power	P	5,750 BHP



# R/V SIKULIAQ Performance

Endurance	45 days	
Endurance, Hotel Only	60 days	
Range	11 knots	9,000 NM <b>preliminary</b>
Cruise Speed	transit speed	11 knots
Max Speed, Calm Open Water	Vcalm	14.2 knots
Max Speed, 4 M Sea (13.1 ft)	Vss 5	12.3 knots
Level Ice at 2 knots	Ice thickness	3 feet



# R/V SIKULIAQ Capacities and Working Area

Science Berths	24
Crew Berths	20 crew plus 2 marine technicians
Science deadweight	100 long tons
Aft Deck 20' ISO Van Services and Twist Lock	3 Fixed locations
Fwd Deck 10' ISO Van Services and Twist Lock	1 Fixed location
Science storage	8,000 cubic feet
Science Labs	2250 square feet
Deck Working Area	4360 square feet



Date	Schedule
June 6 <sup>th</sup> , 2014	SIKULIAQ Delivered Menominee, MI
June 7 <sup>th</sup> , 2014 – July 13 <sup>th</sup> , 2014	Outfit vesse, Install Network systems, and Transit to Cleveland
July 14 <sup>th</sup> – Julty 19 <sup>th</sup> , 2014	In Port Cleveland (Fuel and address power management issues)
July 20 <sup>th</sup> – July 30 <sup>th</sup> , 2014	Transit to WHOI with port call in Montreal. Underwater radiated noise survey, Test CTD and Ship Station Keeping
July 31 <sup>st</sup> – August 10 <sup>th</sup> , 2014	In Port WHOI. Ship tours, lubricate wire, PCO2 install, Gravimeter install, Swab Test
August 11 <sup>th</sup> – August 18 <sup>th</sup> , 2014	Commissioning of Multibeam systems (Kongsberg/MAC)
August 19 <sup>th</sup> – September 4 <sup>th</sup> , 2014	Warranty work
September 5 <sup>th</sup> - September 10 <sup>th</sup> , 2014	Transit to San Juan, Puerto Rico
September 11 <sup>th</sup> , 2014	NSF Inspection
September 12 <sup>th</sup> – September 18 <sup>th</sup> , 2014	Commissioning of TOPAS, ADCPs, Winch Trials, Science Trials
September 19 <sup>th</sup> – September 21 <sup>st</sup> . 2014	Internal SMS audit, Fuel, Clean Hull (extreme barnacle growth)
September 22 <sup>nd</sup> – October 20 <sup>th</sup> , 2014	Transit to Honolulu
October 21 <sup>st</sup> – October 26 <sup>th</sup> , 2014	In Port Honolulu Warranty Work
October 27 <sup>th</sup> – November 2 <sup>nd</sup> , 2014	Underway testing and training
November 3 <sup>rd</sup> – November 11 <sup>th</sup> , 2014	Load Sentry, Install USBL on Centerboard
November 5 <sup>th</sup> – November 9 <sup>th</sup> , 2014	Shakedown cruise with Sentry
November 11 <sup>th</sup> -November 16 <sup>th</sup> , 2014	In Port Honolulu DNV External ISM Audit, NOAA Inspection to enter PMNM,
November 17 <sup>th</sup> - December 12 <sup>th</sup> , 2014	Science Cruise Baco Taylor
December 16 <sup>th</sup> – January 15 <sup>th</sup> , 2014	Science Cruise Tominaga

# R/V SIKULIAQ WHOI



Photo by Chris Griner



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# Stern Looking Forward



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# A-Frame



**Normal Deployed Position Full Load Capacity**  
←



**Fully Deployed Position Reduced Load Capacity**  
→





# CTD Load Handling System



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# SIKULIAQ Computer Lab



Questions?

[www.sikuliatq.alaska.edu](http://www.sikuliatq.alaska.edu)

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