# APPLICATION FOR CONSENT TO CONDUCT MARINE SCIENTIFIC RESEARCH

## 1. General Information

1.1 Cruise name and/or number:	or number: C261 Yard/Maintenance - C261A - F2015-003		
1.2 Sponsoring institution(s):			
Name	Address	Name of Director	
Sea Education Association	PO Box 6 Woods Hole, MA 02543	Peg Brandon	

1.3 Scientist in charge of the project:		
Name:	Paul Joyce	
Country:	US	
Affiliation:	Sea Education Association	
Address:	P.O. Box 6 Woods Hole, Massachusetts 02543 US	
Telephone:	508-444-1907	
Email:	pjoyce@sea.edu	

1.4 Entity(ies) /Participant(s) from coastal State involved in the planning of the project:			
Name:			
Country:			
Affiliation:			
Address:	See Section 6.2.		
Telephone:	See Section 0.2.		
Fax:			
Email:			
Website (for CV and photo):			

### 2. Description of Project

## 2.1 Nature and objectives of the project:

The primary purpose of our scientific research is to teach oceanography and oceanographic sampling techniques to college undergraduate students. Each student must design a research project ashore and carry out that research project during the cruise. In addition, some data is collected for long-term research projects carried out by staff scientists at the Sea Education Association. These projects include studies of the abundance and distribution of plankton, floating tar and plastic, the biology of thermal fronts, the geology of carbonate banks and islands, and the comparative ecology of shallow productive banks.

#### 2.2 Relevant previous or future research projects:

SEA has been training young oceanographers and working with Coastal States for almost 30 years in the Atlantic Ocean. Our vessels have routinely sailed through the waters claimed by nearly every coastal state in the Caribbean and Bahamian region, and we always secure permission to conduct oceanographic research from each of these countries before the cruises begin.

## 2.3 Previous publications relating to the project:

The fact that we sail areas of the ocean not frequently covered by other research vessels has allowed us to contribute to the research of a number of outside investigators as vessels of opportunity, resulting in the publication of at least 40 articles on topics in physics, chemistry, geology, biology, meteorology, and pollution. In addition, SEA oceanographers occasionally publish results of data collected with student help. Four representative articles (including those by SEA oceanographers) are cited below. Joyce, P. 1998. Floating tar in the western North Atlantic and Caribbean Sea, 1982-1996. Baseline 36:167-171. Bower, A., E. Zettler, and G. Gawarkiewicz. 2004. Science under sail. Oceanograph 17:42-51. Moret-Ferguson, S., K. L. Law, G. Proskurowski, E. K. Murphy, E. Peacock, C. M. Reddy. 2010. The size, mass, and composition of plastic debris in the western North Atlantic Ocean. Mar.Poll.Bull. doi:10.1016/j.marpolbul.2010.07.020. Law, K. L., S. Moret-Ferguson, N. A. Maximenko, G. Proskurowski, E. E. Peacock, J. Hafner, C. M. Reddy. 2010. Plastic accumulation in the North Atlantic subtropical gyre. Science 329: 1185-1188.

### 3. Geographical Areas

3.1 Indicate geographical areas in which the project is to be conducted (with reference in latitude and longitude, including coordinates of cruise track/ way points):

\*\*\*Please Note: Entry and dates from research areas can vary significantly since we are a sailing research vessel and thus our schedule is weather dependent. If requested, we can provide a progress report and a more detailed schedule for the vessel as the cruise progresses through the waters of individual coastal states.\*\*\*The cruise will sail Southeast from Cork, Ireland, through British waters to Duoarnenez, France before turning South and heading across the Bay of Biscay to Lisbon, Portugal. After stopping in Lisbon, the cruise will head south to Cadiz where the ship will remain for a maintenance yard period until mid-September. After the end of the yard period, the ship will sail through the Straight of Gibraltar to Barcelona, with a brief stop in Cartagena. Due to our educational mission, we seldom have exact locations where we need to sample. Generally samples are taken daily along the cruise track. However, some tentatively planned sampling locations are: Proposed Station Locations: 1) 51.12N x 7.88W 2) 50.33N x 7.13W 3) 49.25N x 6.55W 4) 48.54N x 5.75W 5) 45.95N x 6.66W 6) 44.97N x 8.07 W 7) 43.12N x 10.39W 8) 41.13N x 10.23W 9) 36.85N x 9.75W

3.2 Attach chart(s) at an appropriate scale (1 page, high-resolution) showing the geographical areas of the intended work and, as far as practicable, the location and depth of sampling stations, the tracks of survey lines, and the locations of installations and equipment. Chart provided - see Section 10.1.

### 4. Methods and Means to be Used

4.1 Particulars of vessel:	
Name:	CORWITH CRAMER
Type/Class:	Ship
Nationality (Flag state):	United States
Identification Number (IMO/Lloyds No.):	
Owner:	Sea Education Association
Operator:	Sea Education Association
Overall length (meters):	41.00
Maximum draught (meters):	4.00
Displacement/Gross tonnage:	280.00
Propulsion:	Sail; auxiliary 500 horsepower (370 kW) Cummins diesel
Cruising:	
Maximum speed:	
Call sign:	WTF 3319
INMARSAT number and method and capability	VHF 16
of communication (including emergency	
frequencies):	
Name of master:	Christopher Nolan
Number of crew:	6
Number of scientists on board:	4

4.2 Other craft in the project, including its use: One 15 foot (5 m) hard bottom inflatable boat with 25 HP outboard engine

4.3 Particulars of methods and scientific instruments:				
Types of samples and measurements	Methods to be used	Instruments to be used		
1: Temperature, salinity, nutrients 2:	1: Chemical analyses 2: Net tows and	1: CTD, spectrophotometer, fluorometer,		
Plankton	microscope counts	titration 2: Plankton nets		
(Leg 2 only) Benthic sediment &	Sediment grabs (benthic organisms &	Shipek grab, fisher scoop		
organisms	sediments), sieving, microscope			
	observation			

4.4 Indicate nature and quantity of substances to be released into the marine environment: No

4.5 Indicate whether drilling will be carried out. If yes, please specify: No

4.6 Indicate whether explosives will be used. If yes, please specify type and trade name, chemical content, depth of trade class and stowage, size, depth of detonation, frequency of detonation, and position in latitude and longitude: No

4.7 Indicate	whether prot	ected species	be studied.	If yes,	please specify:
No					

## 5. Installations and Equipment

Details of installations and equipment (including dates of laying, servicing, method and anticipated timeframe for recovery, locations and depth, and measurements): No

6. Dates

6.1 Expected dates of first entry into and final departure from the research area by the research vessel and/or other platforms:				
Project Start Date: Jul 09, 2015				
Project End Date: Sep 29, 2015	Project End Date: Sep 29, 2015			
6.2 Coastal State-specific details:				
Coastal Area Estimated Entry Date Estimated Departure Date				

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Name, affiliation and contact information for all participants from Portugal:

### 7. Port Calls

Port	Arrival Date	End Date	Special Logistical Requirements	Shipping Agent
Douarnenez	7/15/2015	7/18/2015	none; SEA vessels are self-sufficient	none; SEA vessels do not require the use of an agent
Lisboa	7/29/2015	8/1/2015	none; SEA vessels are self-sufficient	none; SEA vessels do not require the use of an agent
Cadiz	8/5/2015	8/10/2015	none; SEA vessels are self-sufficient	none; SEA vessels do not require the use of an agent
Mallorca	8/16/2015	9/19/2015	none; SEA vessels are self-sufficient	none; SEA vessels do not require the use of an agent
Barcelona	9/23/2015	9/29/2015	none; SEA vessels are self-sufficient	none; SEA vessels do not require the use of an agent

8. Participation of the representative of the coastal State

8.1 Modalities of the participation of the representative of the coastal State in the research project: See Section 6.2.

8.2 Proposed dates and ports for embarkation/disembarkation: See Section 6.2.

### 9. Access to Data, Samples and Research Results

9.1 Expected dates of submission to coastal State of preliminary report, which should include the expected dates of submission of the data and research results:No more than 60 days from the end date of the research as provided in Section 6.1.

9.2 Anticipated dates of submission to the coastal State of the final report: No more than 2 years from the end date of the research as provided in Section 6.1.

9.3 Proposed means for access by coastal State to data (including format) and samples: Data will be provided through official channels at no cost to the coastal State(s). Samples will be provided upon request.

9.4 Proposed means to provide coastal State with assessment of data, samples and research results: Assessment of data, samples and research results will be provided at no cost to the coastal State(s).

9.5 Proposed means to provide assistance in assessment or interpretation of data, samples and research results: Assistance in further assessment or interpretation will be provided upon request.

9.6 Proposed means of making results internationally available:

Some results are published in international scientific journals. Unpublished data can be made available by arrangement with the SEA archivist by contacting: SEA Data Archivist, Sea Education Association, P.O. Box 6, Woods Hole, MA 02543, U.S.A. 508-540-3954 x529, fax 508-457-4673, email: dataarchivist@sea.edu, website: www.sea.edu

10. List of Supporting Documentation

10.1 List of attachments, such as additional forms required by the coastal State, etc.:				
Attachment Type	Description	Description Attachment Submission Date		
Supplemental Material	Resume of Chief Scientist	1936093750_Paul Joyce Resume.doc	Jan 08, 2015	
	Paul Joyce			
Diplomatic Note	Embassy Madrid Request	0743281250_NV 44 SSV Corwith	Jan 21, 2015	
	DipNote No. 44	Cramer-20Jan2015.pdf		
Proposed Cruise Track	Proposed Cruise Track for	5672968750_C261_Yard_C261A_Cruise	Jun 09, 2015	
	C261 (updated)	Prospectus_updated_9-June-2015.pdf		
Supplemental Material	Resume of Chief Scientist	6542031250_Zettler CV 201310.pdf	Jun 09, 2015	
	Erik Zettler (Leg 2)			