APPLICATION FOR CONSENT TO CONDUCT MARINE SCIENTIFIC RESEARCH

1. General Information

1.1 Cruise name and/or number:	OSNAP East 2018 - F2018-007		
1.2 Sponsoring institution(s):			
Name	Address	Name of Director	
University of Miami	Dr. William E. Johns RSMAS/MPO	Dean Roni Avissar	
	University of Miami 4600 Rickenbacker		
	Causeway Miami, FL 33149 Office: (305)		
	421-4054 Fax: (305) 421-4696 email:		
	bjohns@rsmas.miami.edu		
1.3 Scientist in charge of the project:			
Name:	William Johns	_	
Country:	US		
Affiliation:	University of Miami, RSMAS		
Address:	. US		
Telephone:	7	305-421-4054	
Email:		bjohns@rsmas.miami.edu	
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1.4 Entity(ies) /Participant(s) from coastal S	tate involved in the planning of the project:		
Name:			
Country:			
Affiliation:		See Section 6.2.	
Address:	Sac Saction 6.2		
Telephone:	See Section 6.2.		
Fax:			
Email:			
Website (for CV and photo):			

2. Description of Project

2.1 Nature and objectives of the project:

This research is part of the U.S. led "Overturning in the Subpolar North Atlantic Program (OSNAP), an effort to determine the strength of the meridional overturning circulation and associated heat and freshwater fluxes in the subpolar North Atlantic. It is a collaborative program with scientists from several nations, including the U.K., the Netherlands, Germany, France, Canada, and China. Scientists from the U.S., the U.K., and the Netherlands will participate in this cruise.

2.2 Relevant previous or future research projects:	
Application number: F2014-024 Project name: OSNAP Iceland Basin	

2.3 Previous publications relating to the project:	
None	

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):
57.29N, 9.4W to 57N, 12.77W.

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:	NEIL ARMSTRONG	
Type/Class:	Ship	
Nationality (Flag state):	United States	
Identification Number (IMO/Lloyds No.):	9688946	
Owner:	United States Navy	
Operator:	Woods Hole Oceanographic Institution	
Overall length (meters):	72.50	
Maximum draught (meters):	4.60	
Displacement/Gross tonnage:	2603.00	
Propulsion:	2 Siemens AC Electric Motors, 2350 HP	
Cruising:	11.00	
Maximum speed:	14.00	
Call sign:		
INMARSAT number and method and capability	INMARSAT C- (IMN#) 436903967	
of communication (including emergency		
frequencies):		
Name of master:	Captain Kent Sheasley	
Number of crew:	15	
Number of scientists on board:	20	

4.2 Other craft in the project, including its use: none

4.3 Particulars of methods and scientific instruments:			
Types of samples and measurements	Methods to be used	Instruments to be used	
currents, temperature, salinity, pressure,	taut-wire subsurface moorings, standard	CTD (Conductivity-temperature-depth),	
position, depth	CTD/LADCP stations, ocean gliders	LADCP (Lowered Acoustic Doppler	
		Current Profiler), Current meters,	
		Temperature/salinity./pressure recorders,	
		SeaGliders	
bottom topography underway shipboard	echosounders (single and multibeam)	12 kHz echosounder, Seabeam system,	
velocity profiling	Vessel-mounted Acoustic Doppler	Teledynce/RD Instruments VM-ADCP	
	Current Profiler (VM-ADCP)		

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 protected 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):

yes

Mooring deployments (see attached cruise prospectus for detailed listing)

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: Jun 15, 2018		
	Project End Date: Aug 15, 2018		

6.2 Coastal State-specific details:			
Coastal Area	Estimated Entry Date	Estimated Departure Date	
United Kingdom	Jun 15, 2018	Aug 15, 2018	
Explanation of multiple entries:			
N/Ā			
Research will be performed: between 12-200 nm			
Extent to which United Kingdom will be enabled to participate or to be represented in the research project:			
UK scientists are participating in the cruise			
Name, affiliation and contact information for all participants from United Kingdom:			
Stuart Cunningham Stuart Cunningham@sams ac.uk Holliday N. Penny penny holliday@noc.ac.uk			

7. Port Calls

No port calls

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:

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: Website: https://www.o-snap.org

10. List of Supporting Documentation

10.1 List of attachments, such as additional forms required by the coastal State, etc.:			
Attachment Type	Description	Attachment	Submission Date
Proposed Cruise Track	Cruise prospectus and station map	7543750000_Cruise_Prospectus_Armstrong_July2018.docx	Jan 19, 2018