

## PEER Award Final Report

Prof Stuart A. Cunningham, Nov 2014

### Background

This report documents the use of PEER funds to support Cunningham's contribution to a bid to Horizon 2020: BG-8-2014: Developing in-situ Atlantic Ocean Observations for a better management and sustainable exploitation of the maritime resources, Call open 12<sup>th</sup> Dec 2013. Proposals in the range of EUR 15-20 million.

### The H2020 Call

(Text from the Call): The specific challenge of this call is to conduct the Research and Innovation activities necessary to the deployment of an Integrated Atlantic Ocean Observing System (IAOOS), building on existing capacities on both side of the Atlantic. The Integrated Atlantic Ocean Observing System initiative should cover the whole Atlantic with the objective to deliver the knowledge base supporting the understanding of the Ocean Process at the level of the entire basin. Another focus of proposals should be to fill the observational gaps regarding the in-situ part of the IAOOS including through the optimisation of existing systems and the use of new ocean observation technologies enabling reducing the costs of in-situ ocean observation and integration of the biological dimension into observing systems. *In line with the objectives of the EU strategy for international cooperation in research and innovation (COM (2012) 497), proposals should contribute to implementing the Transatlantic Research Alliance, launched by the Galway Statement<sup>1</sup> on Atlantic Ocean Cooperation in May 2013, and should benefit from the inclusion of partners from the US and Canada.*

### The H2020 Process

Stage 1: Submitted 12<sup>th</sup> March 2014.

Stage 2: Submitted 26<sup>th</sup> June 2014

Project Funding Announcement Exected: 27<sup>th</sup> November 2014

## Optimizing and Enhancing the Integrated Atlantic Ocean Observing System (AtlantOS)

### The AtlantOS Project Website

[www.atlantos-h2020.eu](http://www.atlantos-h2020.eu)

### Abstract

*The overarching objective of AtlantOS is to achieve a transition from a loosely-coordinated set of existing ocean observing activities to a sustainable, efficient, and*

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*fit-for-purpose Integrated Atlantic Ocean Observing System (IAOOS), by defining requirements and systems design, improving the readiness of observing networks and data systems, and engaging stakeholders around the Atlantic; and leaving a legacy and strengthened contribution to the Global Ocean Observing System (GOOS) and the Global Earth Observation System of Systems (GEOSS). AtlantOS will fill existing in-situ observing system gaps and will ensure that data are readily accessible and useable. AtlantOS will demonstrate the utility of integrating in-situ and Earth observing satellite based observations towards informing a wide range of sectors using the Copernicus Marine Monitoring Services and the European Marine Observation and Data Network and connect them with similar activities around the Atlantic. AtlantOS will support activities to share, integrate and standardize in-situ observations, reduce the cost by network optimization and deployment of new technologies, and increase the competitiveness of European industries, and particularly of the small and medium enterprises of the marine sector. AtlantOS will promote innovation, documentation and exploitation of innovative observing systems. All AtlantOS work packages will strengthen the trans-Atlantic collaboration, through close interaction with partner institutions from Canada, United States, and the South Atlantic region. AtlantOS will develop a results-oriented dialogue with key stakeholders communities to enable a meaningful exchange between the products and services that IAOOS can deliver and the demands and needs of the stakeholder communities.*

## Participants

Number	Participant	Acronym	Country
1	GEOMAR Helmholtz Zentrum für Ozeanforschung Kiel	GEOMAR	DE
2	Natural Environment Research Council	NERC	UK
3	Marine Institute	MI	IE
4	Universität Bremen	UniHB	DE
5	Danmarks Meteorologiske Institut	DMI	DK
6	Centre National de la Recherche Scientifique	CNRS	FR
7	Universite Pierre et Marie Curie - Paris 6	UPMC	FR
8	International Council for the Exploration of the Sea	ICES	DK
9	Konsortium Deutsche Meeresforschung e.V.	KDM	DE
10	Instytut Oceanologii Polskiej Akademii Nauk	IO PAN	PL
11	Havforskningsinstituttet	IMR	NO
12	University Bergen	UIB	NO
13	Agencia Estatal Consejo Superior de Investigaciones Científicas	CSIC	ES
14	Norsk Institutt for Vannforskning	NIVA	NO
15	Plataforma Oceánica de Canarias	PLOCAN	ES
16	Sir Alister Hardy Foundation for Ocean Science	SAHFOS	UK
17	Danmarks Tekniske Universitet	DTU	DK
18	The Scottish Association for Marine Science	SAMS	UK
19	University of the Azores	IMAR	PT
20	Stichting Koninklijk Nederlands Instituut Voor Zeeonderzoek	NIOZ	NL
21	Met Office	MET O	UK
22	Alfred Wegener Institut Helmholtz Zentrum für	AWI	DE

	Polar- und Meeresforschung		
23	Havstovan	HAV	FO
24	University Exeter	UNEXE	UK
25	Institut de Recherche pour le Dévelop., Lab. d'Etudes en Géoph. et Océanog. Spatiales	IRD	FR
26	EIG EUMETNET	EUMETNET	BE
27	Collecte Localisation Satellites	CLS	FR
28	Centro Euro Mediterraneo sui Cambiamenti Climatici S.c.a r.l.	CMCC	IT
29	Flanders Marine Institute	VLIZ	BE
30	Interdisciplinary Centre for Marine and Environmental Research	CIIMAR	PT
31	Institute of Electrical and Electronics Engineers Inc.	IEEE	FR
32	European Marine Board - Fondation Europeenne De La Science	EMB-ESF	FR
33	University of Plymouth	UOP	UK
34	Universidade do Algarve	UALG	PT
35	Instituto Español de Oceanografía	IEO	ES
36	Institut Francais de Recherche pour l'expl. de la mer	Ifremer	FR
37	Mercator Ocean	MERCATOR	FR
38	Alma Mater Studiorum-Universita di Bologna	UNIBO	IT
39	United Nations Educational, Scientific and Cultural Organization - UNESCO	IOC	FR
40	Euro-Argo ERIC	Euro-Argo	FR
41	European Global Ocean Observing System	EuroGOOS	BE
42	European Centre for Medium-Range Weather Forecasts	ECMWF	UK
43	Plymouth Marine Laboratory	PML	UK
44	Daithi O'Murchu Marine Research Station Ltd	DOMMRS	IE
45	Seascope Consultants Ltd ( <i>EMODNET Secretariat</i> )	SEASCAPE	UK
46	Bruncin	Bruncin	HR
47	Ribocon GmbH	Ribocon	DE
48	Develogic GmbH	DSS	DE
49	NKE instrumentation sarl	NKE	FR
50	Marlin-Yug Ltd	MY	UA
51	CONTROS Systems & Solutions GmbH	CONTROS	DE

## Budget

Grand Total: €20,732,923

SAMS: €234,560

## Participation in AtlantOS

*You still have the possibility to join AtlantOS as a supporter! If you are a legal entity wishing to support AtlantOS through complementary activities, you can register on the website. The AtlantOS coordination team will evaluate your application and come back to you soon. You want to know who is already*

*supporting AtlantOS and with which activities? Check out the supporter list!*  
[www.atlantos-h2020.eu](http://www.atlantos-h2020.eu)

## Appendix 1: How the PEER funding was spent

### Requested Funding and in kind Contributions

**Summary of total estimated costs (excluding VAT)** This should include the costs of work/activity which will be funded by (a) MASTS, (b) Bodies other than MASTS, (c) 'in kind' contributions as a value, as appropriate.

<b>Funding Body</b>	<b>Cost/Contribution</b>
<b>(a) MASTS</b>	<b>Table 1 below (£5150)</b>
<b>(b) Other than MASTS (opportunistic piggy-back contributions from one EU grant and one NERC grant).</b>	<b>£2,000</b>
<b>(c) 'In Kind' SAMS salary</b>	<b>1 month of Cunningham is ~£6500 at 100% FEC</b>
<b>Total Cost:</b>	<b>£11,000</b>

<b>Table 1: H2020 proposal coordinating meetings: estimated costs</b>	
Travel Oban to Edinburgh (return)	100
Edinburgh to Hamburg flights (Direct flights with easyjet)	200
T&S (4 nights)	600
TOTAL	900
4 trips to Europe	3600
Travel to US for Transatlantic Coordination Meeting (probably Boston)	
Travel Oban to Glasgow	100
Glasgow, Heathrow, Boston Return	850
T&S (4 nights)	600
TOTAL	1550
<b>GRAND TOTAL</b>	<b>5150</b>

Cunningham made three trips to Europe to coordinate SAMS contribution to this proposal. The anticipated US transatlantic meetings did not take place so these funds have not been requested.