



iAtlantic
INTEGRATED ASSESSMENT OF ATLANTIC
MARINE ECOSYSTEMS IN SPACE AND TIME

An integrated assessment of Atlantic ecosystems in space and time

EuroMarine General Assembly
16 January 2020, Marine Biology Station Piran, Slovenia

J Murray Roberts, iAtlantic coordinator



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This overview:

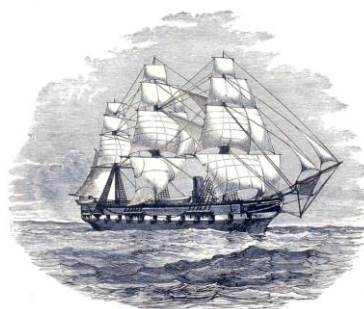
- Wider landscape, ATLAS & call for proposal
- Objectives
- Consortium
- iAtlantic regions & expedition plans
- Project structure & leadership
- Open to collaboration



Oceans are on the agenda



**2021
2030** United Nations Decade
of Ocean Science
for Sustainable Development



1872-1876
150th anniversary



REVIEW

Major impacts of climate change on deep-sea benthic ecosystems

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- Abyssal temp \uparrow 1°C within 84 years
- O₂ declines in areas deep-water formation
- Up to 40-55% \downarrow in POC flux in some regions
- Rapid pH \downarrow at bathyal depths

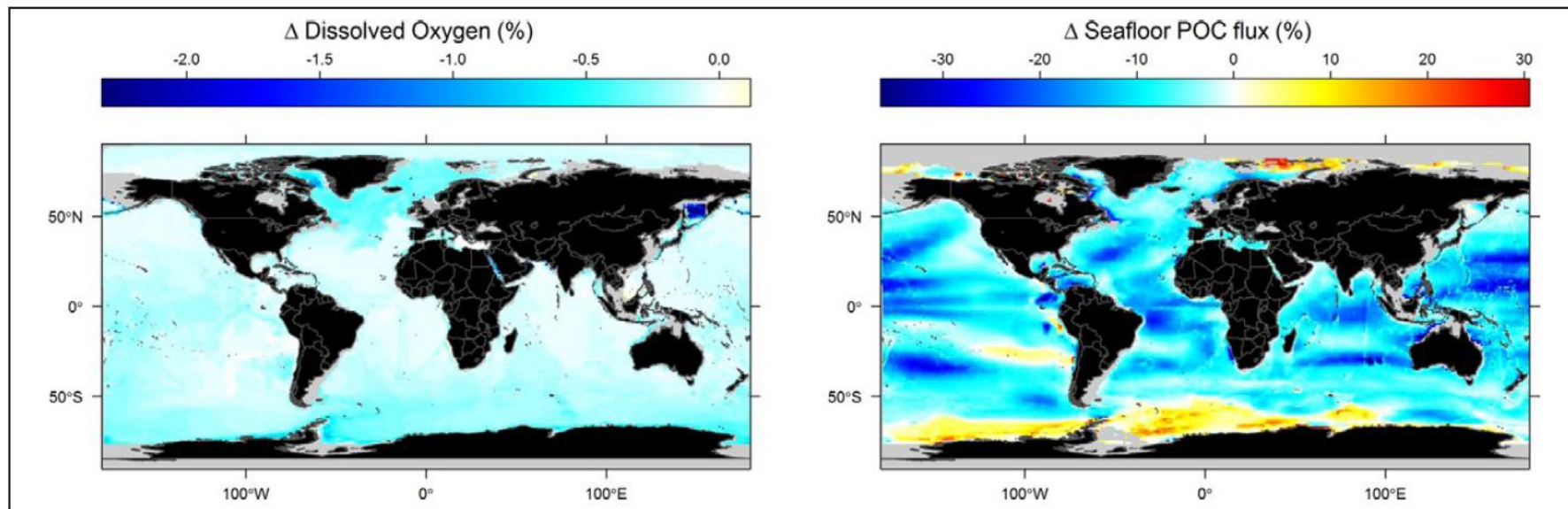


Figure 3: Relative environmental changes at the deep seafloor in the year 2100. Relative change (%) in dissolved oxygen (mL L⁻¹) and seafloor POC flux (mg C m⁻² d⁻¹) conditions that could be seen at the deep (> 200 m) seafloor by 2100 relative to present-day conditions. DOI: <https://doi.org/10.1525/elementa.203.f3>



At a Glance

A trans-Atlantic assessment and deep-water ecosystem-based spatial management plan for Europe

Call: EU Horizon 2020: BG-2015-2
(Unlocking the potential of seas and oceans)

Duration: May 2016 – April 2020 (48m)

Consortium: 24 partners +1 linked 3rd party, from 12 countries

Budget: €9.3M

Coordinator: University of Edinburgh (UK)

Focus: Providing essential new knowledge of North Atlantic ecosystems through data gathering and synthesis

Impact: Discoveries and outputs will inform and facilitate stakeholder agreement on marine policy and regulation and spur Blue Growth

Core activities: 25+ research cruises investigating 12 case studies across the Atlantic

2016-2020



SCIENTIFIC REPORTS

OPEN Ecosystem engineering creates a direct nutritional link between 600-m deep cold-water coral mounds and surface productivity

ROYAL SOCIETY OPEN SCIENCE
 rsos.royalsocietypublishing.org

Research

Cite this article: Fox AD, Henry LA, Corne DW, Roberts JM. 2016 Sensitivity of marine protected area network connectivity to atmospheric variability. *R. Soc. open sci.* 3: 160494.
<http://dx.doi.org/10.1098/rsos.160494>

Sensitivity of marine protected area network connectivity to atmospheric variability

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- 70 researchers and 10 PhD students employed
- 34 Offshore research expedition
- 60 ATLAS publications with 74 in preparation
- Media reach 85.5M persons with coverage including BBC (Radio and TV), Sky News, The Times, The Washington Post, The Guardian, and NPR podcast
- <https://www.eu-atlas.org/resources/atlas-library>

ZooKeys 619: 143–163 (2016)
 doi: 10.28933/zookeys/619.10066
<http://zoobank.org/619.10066>

SHORT COMMUNICATION

New name for the soft coral *Alcyonium rubrum* Stokvis & van Ofwegen, 2006 (Alcyonacea, Alcyoniidae): *Alcyonium burmedju* nom. n.

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frontiers in Marine Science

Deep-Sea Mining With No Net Loss of Biodiversity—An Impossible Aim

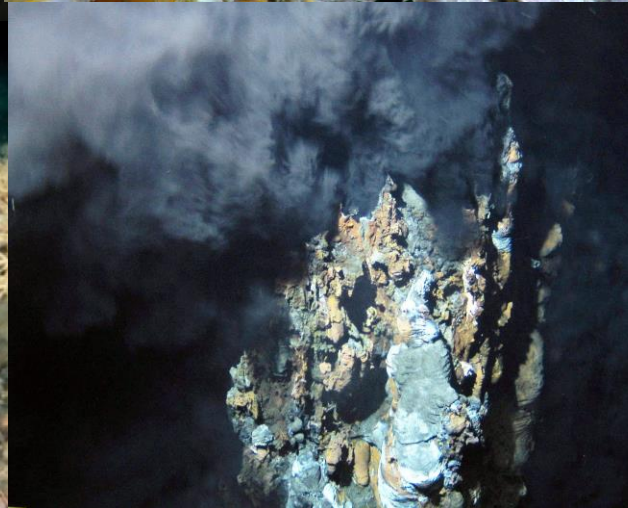
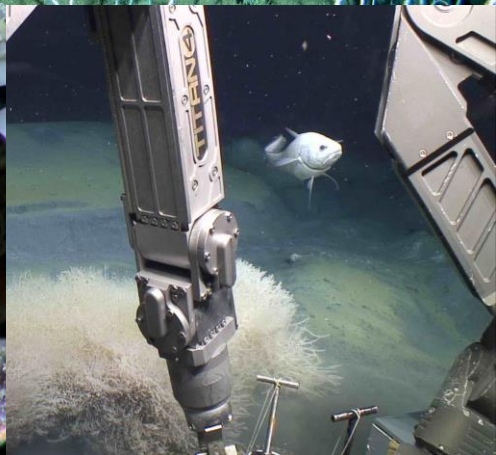
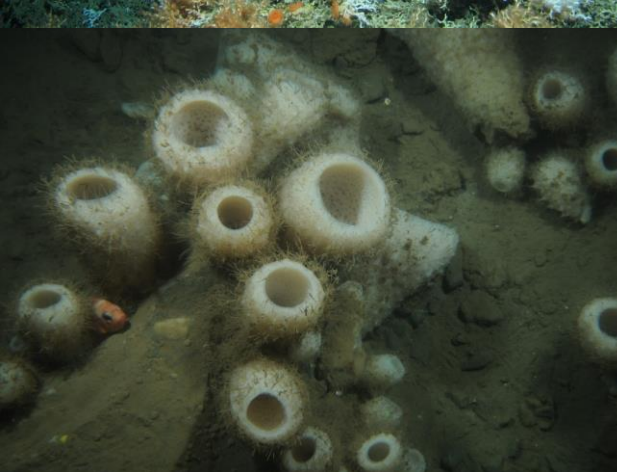
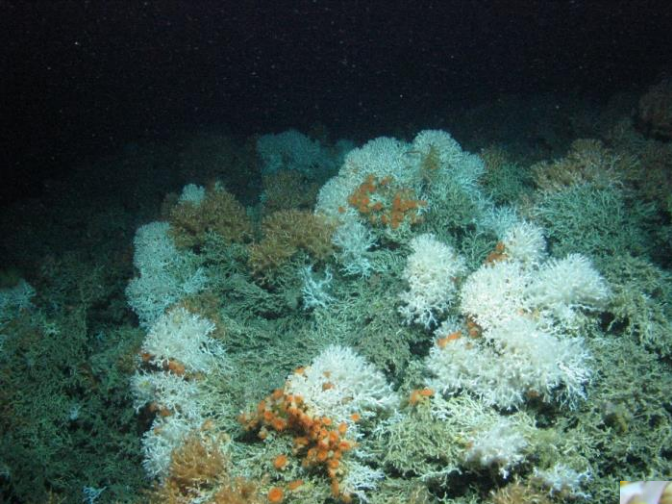
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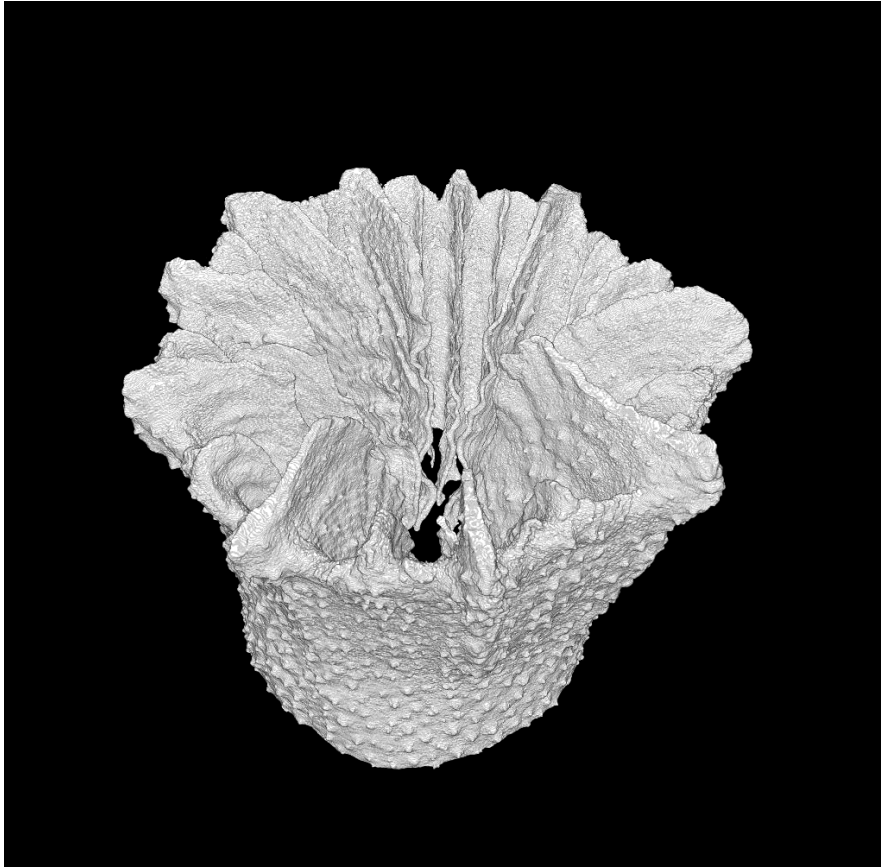
frontiers in Marine Science

Zoantharians (Hexacorallia: Zoantharia) Associated with Cold-Water Corals in the Azores Region: New Species and Associations in the Deep Sea

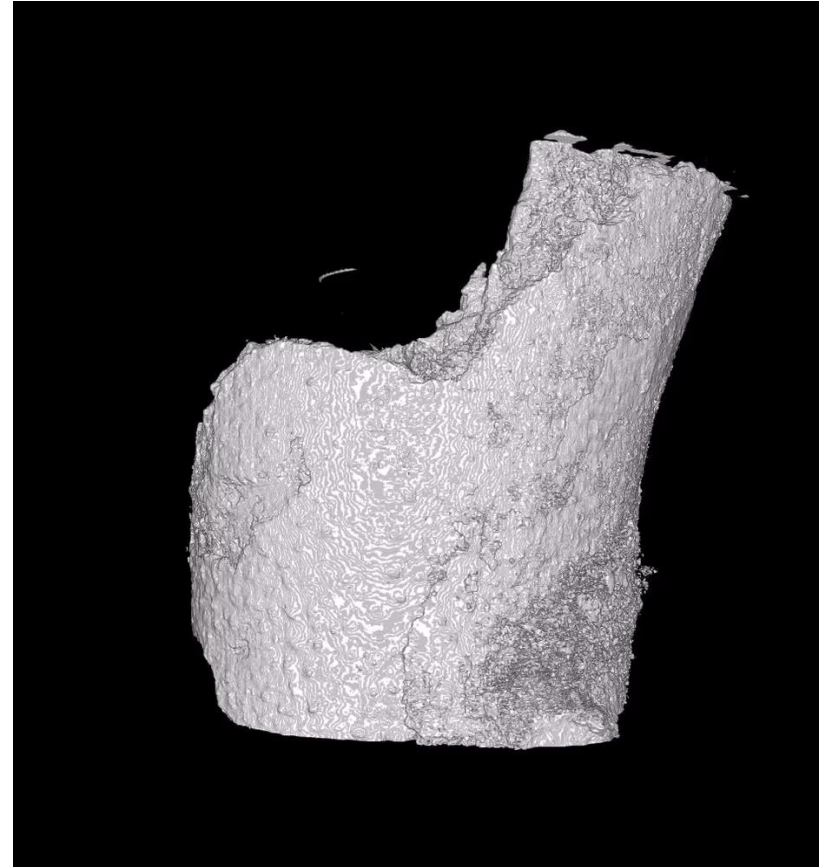
Marta Camarero-Silva^{1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279,280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351,352,353,354,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392,393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518,519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,650,651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949,950,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,980,981,982,983,984,985,986,987,988,989,990,991,992,993,994,995,996,997,998,999,1000,1001,1002,1003,1004,1005,1006,1007,1008,1009,1010,1011,1012,1013,1014,1015,1016,1017,1018,1019,1020,1021,1022,1023,1024,1025,1026,1027,1028,1029,1030,1031,1032,1033,1034,1035,1036,1037,1038,1039,1040,1041,1042,1043,1044,1045,1046,1047,1048,1049,1050,1051,1052,1053,1054,1055,1056,1057,1058,1059,1060,1061,1062,1063,1064,1065,1066,1067,1068,1069,1070,1071,1072,1073,1074,1075,1076,1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087,1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103,1104,1105,1106,1107,1108,1109,1110,1111,1112,1113,1114,1115,1116,1117,1118,1119,1120,1121,1122,1123,1124,1125,1126,1127,1128,1129,1130,1131,1132,1133,1134,1135,1136,1137,1138,1139,1140,1141,1142,1143,1144,1145,1146,1147,1148,1149,1150,1151,1152,1153,1154,1155,1156,1157,1158,1159,1160,1161,1162,1163,1164,1165,1166,1167,1168,1169,1170,1171,1172,1173,1174,1175,1176,1177,1178,1179,1180,1181,1182,1183,1184,1185,1186,1187,1188,1189,1190,1191,1192,1193,1194,1195,1196,1197,1198,1199,1200,1201,1202,1203,1204,1205,1206,1207,1208,1209,1210,1211,1212,1213,1214,1215,1216,1217,1218,1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Synchrotron reconstructed images



Skeleton protected by tissue



Skeleton exposed to dissolution



ELSEVIER

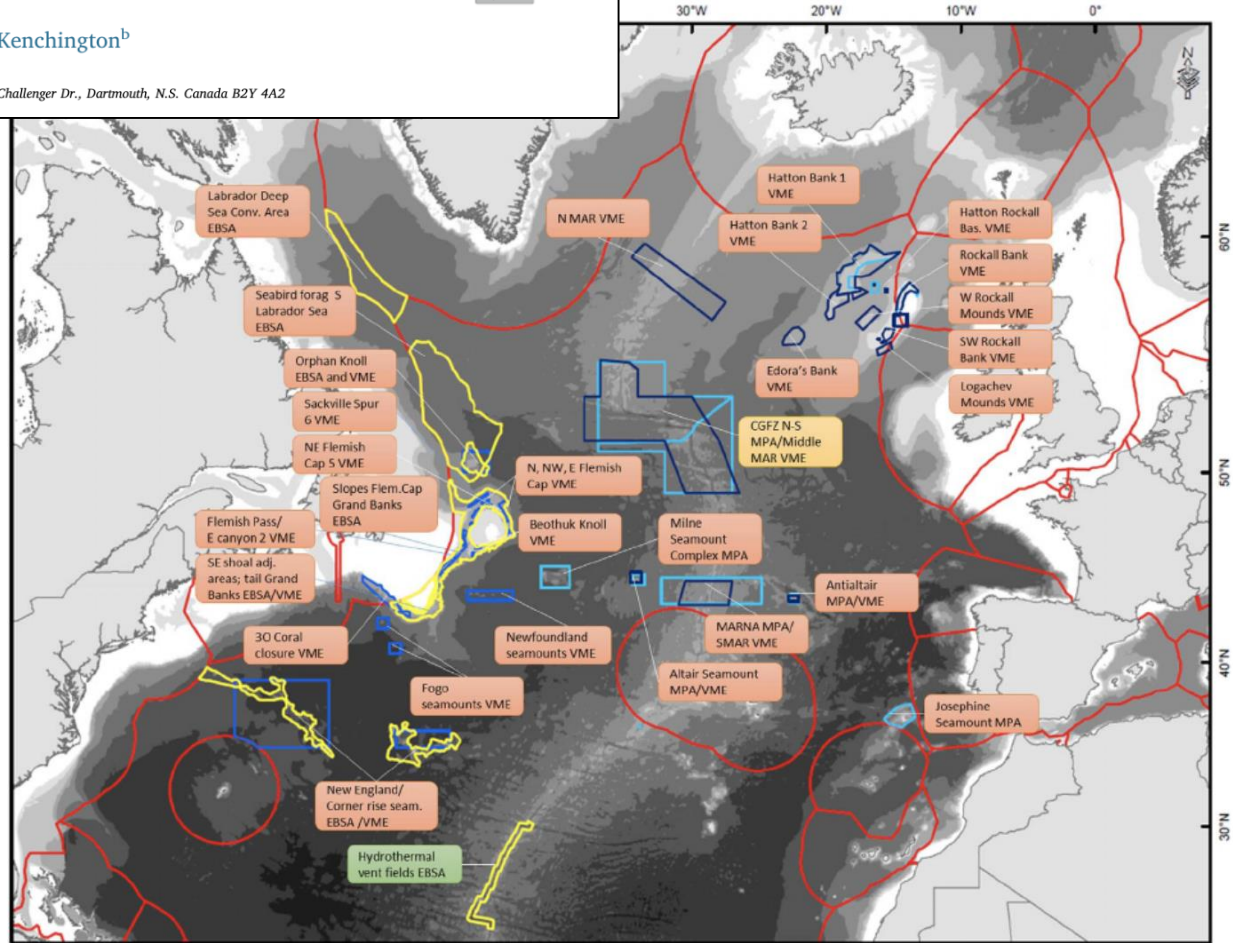


Climate change is likely to severely limit the effectiveness of deep-sea ABMTs in the North Atlantic

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^b Fisheries and Oceans Canada - Bedford Institute of Oceanography, P.O. Box 1006, 1 Challenger Dr., Dartmouth, N.S. Canada B2Y 4A2



Impacted

Low impact

No impact

Fig. 2. Expected effect of changing environmental variables on main taxa listed in the conservation objectives for each North Atlantic ABMT in ABNJ. Green: no expected impact; Yellow: low expected impact; Orange: impacted. (For interpretation of the references to color in this figure legend, the reader is referred to the web version of this article.)



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INTEGRATED ASSESSMENT OF ATLANTIC
MARINE ECOSYSTEMS IN SPACE AND TIME



**Belém Statement on
Atlantic Research and Innovation Cooperation**
Conference in Lisbon on 13-14 July 2017

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EUROPEAN UNION**

**FOR THE DEPARTMENT
OF SCIENCE AND
TECHNOLOGY, A
GOVERNMENT
DEPARTMENT OF THE
REPUBLIC OF
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TOPIC : All Atlantic Ocean Research Alliance Flagship

Topic identifier: BG-08-2018-2019

Publication date: 27 October 2017

Types of action: CSA Coordination and support action

DeadlineModel: single-stage

Planned opening date: 31 October 2017

Deadline: 13 February 2018 17:00:00

Types of action: RIA Research and Innovation action

DeadlineModel: two-stage

Planned opening date: 31 October 2017

Deadline: 13 February 2018 17:00:00

2nd stage Deadline: 11 September 2018 17:00:00

Types of action: RIA Research and Innovation action

DeadlineModel: two-stage

Planned opening date: 16 October 2018

Deadline: 23 January 2019 17:00:00

2nd stage Deadline: 04 September 2019 17:00:00

Time Zone : (Brussels time)

[B] 2018-2019 - Assessing the status of Atlantic marine ecosystems

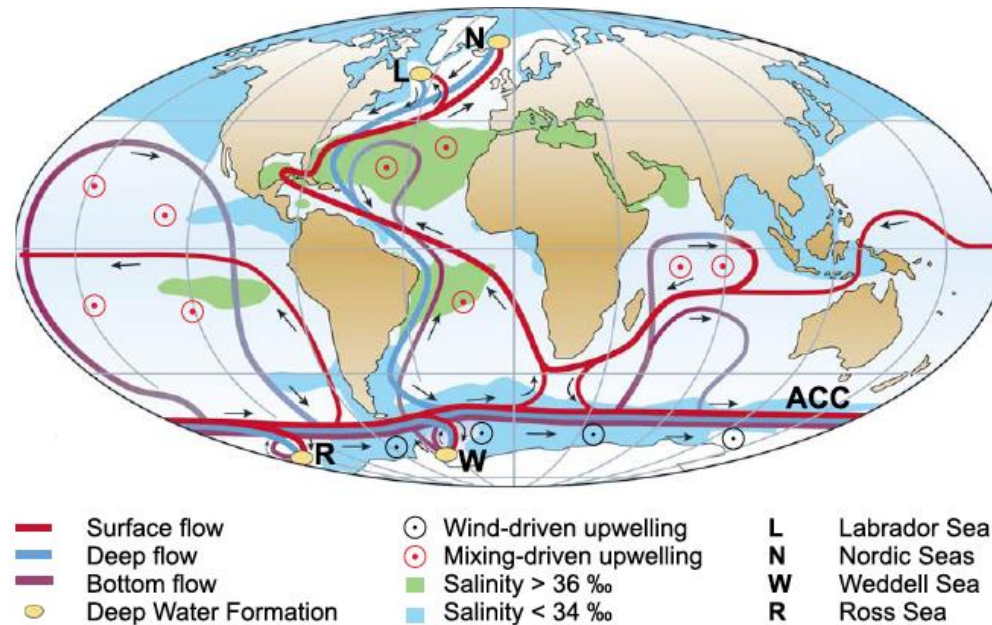
Objectives



1. Ocean Observation
2. Ocean Mapping
3. Ecosystem assessment
4. Capacity Building
5. Sustainable Management

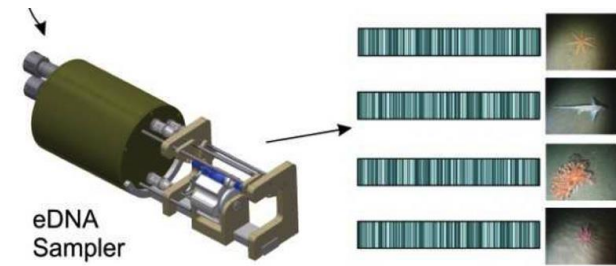
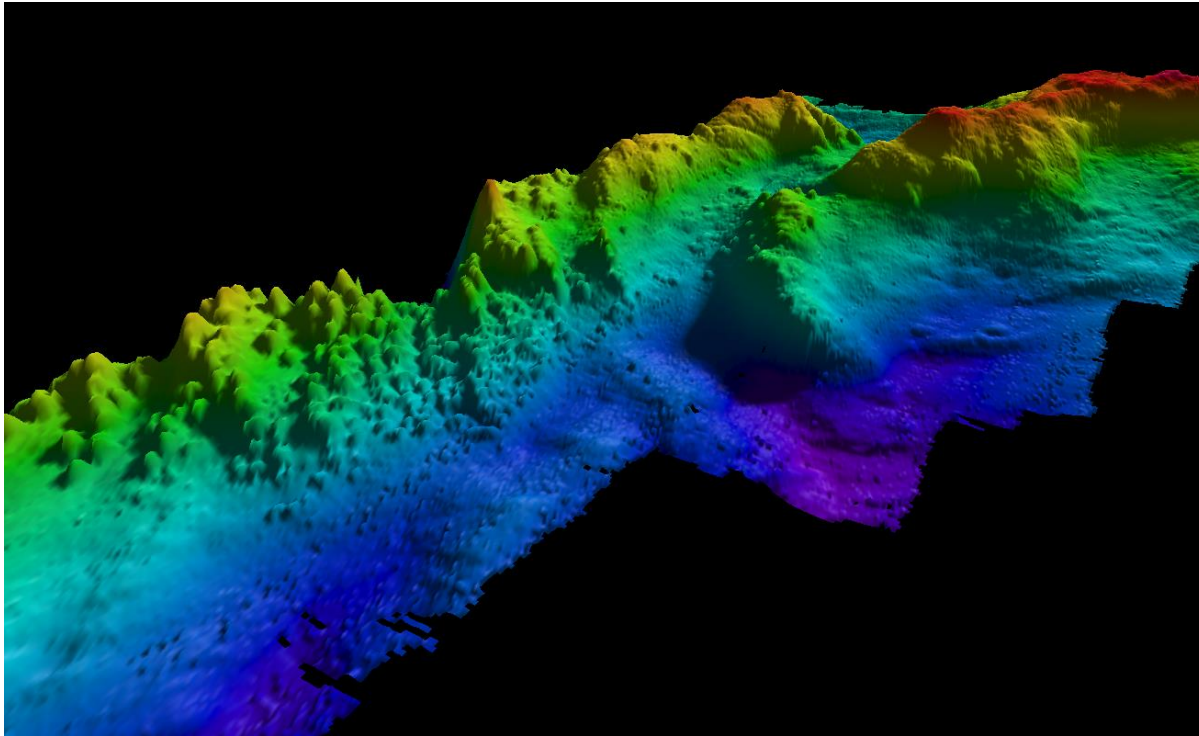


Objective 01 - Ocean Observation



Standardise South and North Atlantic Ocean observations to enable short, medium and long-term assessments of Atlantic Ocean circulation and its physico-biogeochemical environment.

Objective 02 - Ocean Mapping



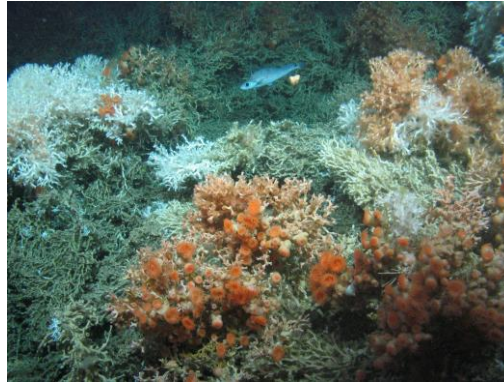
Map deep and open-ocean ecosystems at basin, regional and local scales.



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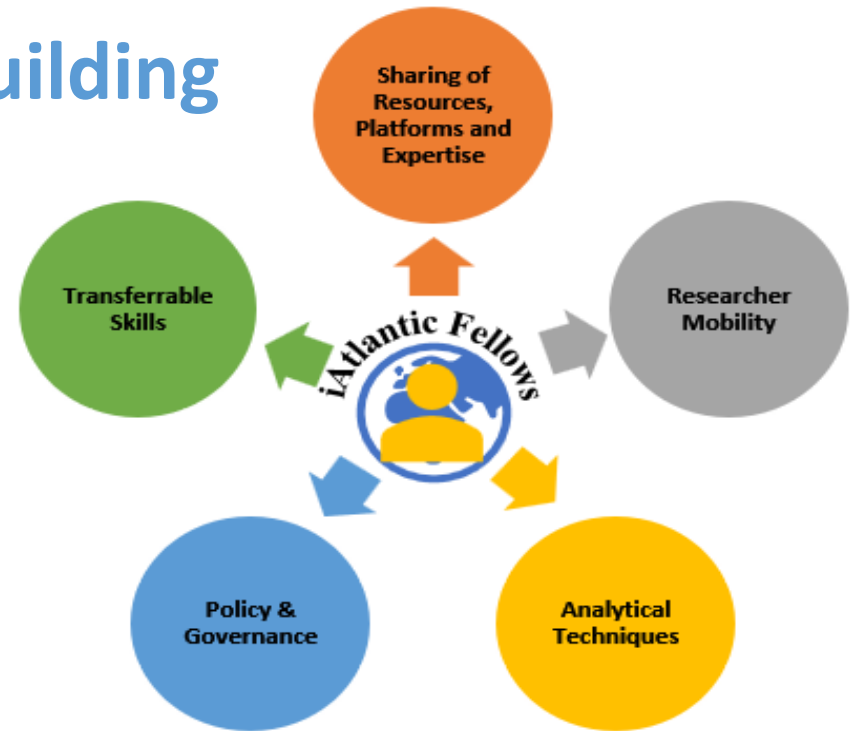
INTEGRATED ASSESSMENT OF ATLANTIC
MARINE ECOSYSTEMS IN SPACE AND TIME

Objective 03 - Deep & open ocean ecosystem assessment



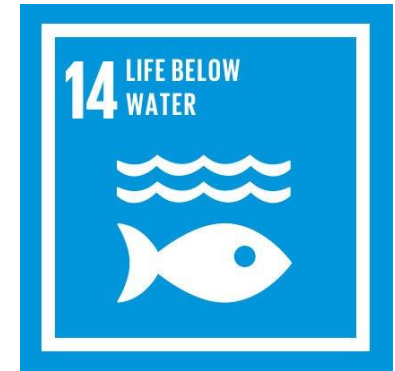
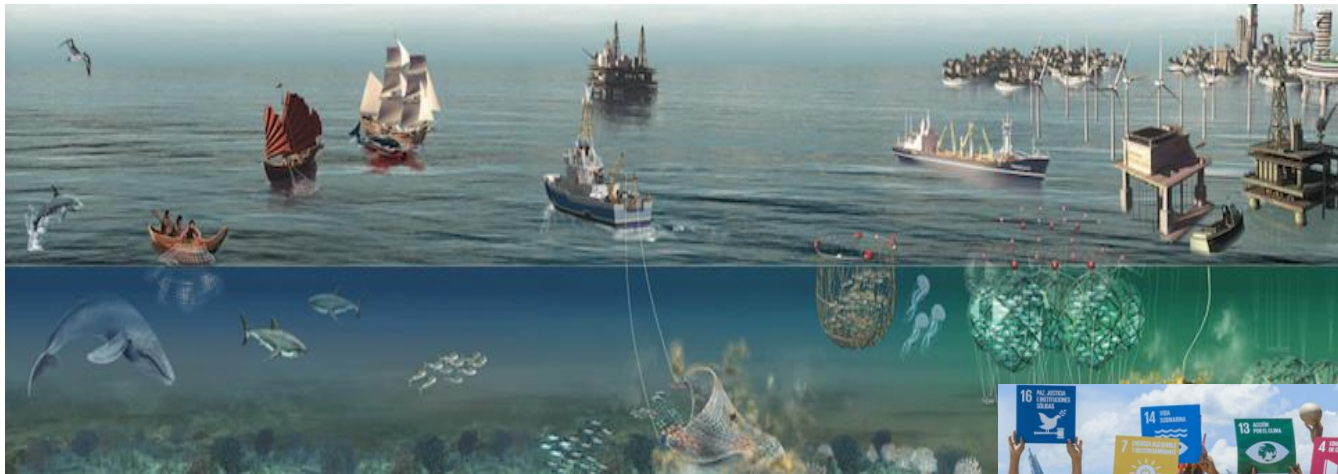
Assess the stability, vulnerability, and any tipping points of deep and open-ocean Atlantic ecosystems to changes in ocean circulation, and effects of single and multiple stressors.

Objective 04 – Capacity building



Align and enhance human, technological and data inter-operability capacities for cost-effective cooperation and planning across the Atlantic.

Objective 05 – Sustainable Management



Define requirements for sustainable management with industry, regulatory and governmental stakeholders to reflect societal needs and inform policy developments that ensure and encourage a sustainable Blue Economy.



INTERGOVERNMENTAL CONFERENCE ON MARINE BIODIVERSITY OF AREAS BEYOND NATIONAL JURISDICTION

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Intergovernmental Conference on an international legally binding instrument under the United Nations Convention on the Law of the Sea on the conservation and sustainable use of marine biological diversity of areas beyond national jurisdiction (General Assembly resolution 72/249)



In its [resolution 72/249](#) of 24 December 2017, the General Assembly decided to convene an Intergovernmental Conference, under the auspices of the United Nations, to consider the recommendations of the [Preparatory Committee](#) established by [resolution 69/292](#) of 19 June 2015 on the elements and to elaborate the text of an international legally binding instrument under the United Nations Convention on the Law of the Sea on the conservation and sustainable use of marine biological diversity of areas beyond national jurisdiction, with a view to developing the instrument as soon as possible.

In accordance with [resolution 72/249](#), the Conference held a three-day organizational meeting in New York, from 16 to 18 April 2018, to discuss organizational matters, including the process for the preparation of the zero draft of the instrument.

The Conference will meet for four sessions. The first session was convened from 4 to 17 September 2018 and the second session from 25 March to 5 April 2019. The third session will be convened from 19 to 30 August 2019. The fourth session will take place in the first half of 2020.

4th Intergovernmental Conference
23 March – 3 April 2020

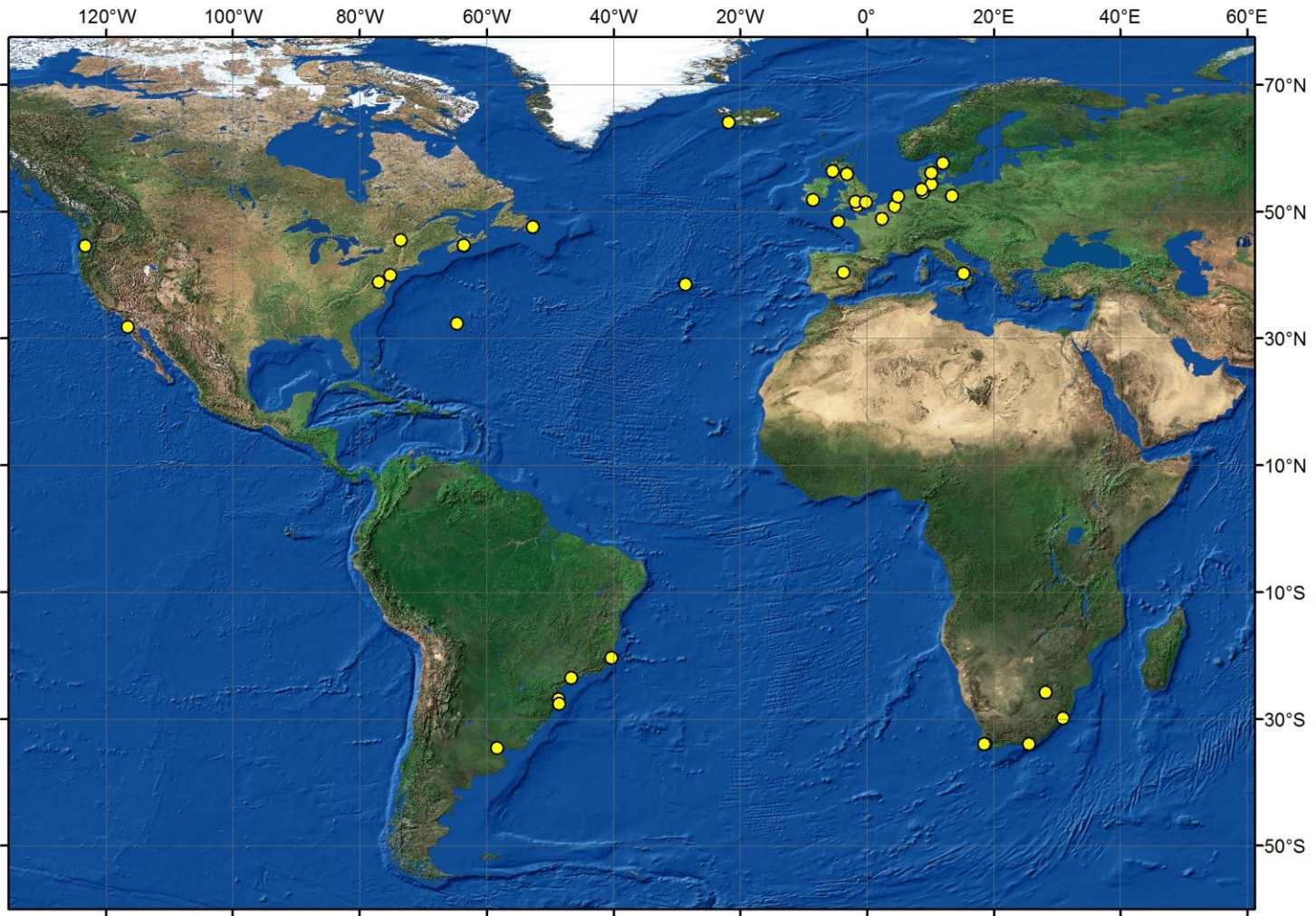
<https://www.un.org/bbnj/>

33 beneficiary partners
€10.6M budget
10 international associate partners
€30M programme of 32 offshore expeditions





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MARINE ECOSYSTEMS IN SPACE AND TIME





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Beneficiary Partners



UNIVERSITY of the
WESTERN CAPE



National
Oceanography Centre

NATURAL ENVIRONMENT RESEARCH COUNCIL



UNIVERSITY OF
KWAZULU-NATAL
INYUVESI
YAKWAZULU-NATALI



SAIAB
South African Institute
for Aquatic Biodiversity



SERVICIO DE
HIDROGRAFIA NAVAL



UNIVERSITY OF CAPE TOWN
IYUNIVESITHI YASEKAPA • UNIVERSITEIT VAN KAAPSTAD



NELSON MANDELA
UNIVERSITY



UNIVERSITY OF
GOTHENBURG



SAEON
South African Environmental
Observation Network



Oregon State
University



MARINE & FRESHWATER
RESEARCH INSTITUTE



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International Partners



**DALHOUSIE
UNIVERSITY**



nscc



**UNIVERSITÀ
DEL SALENTO**

Université 
de Montréal

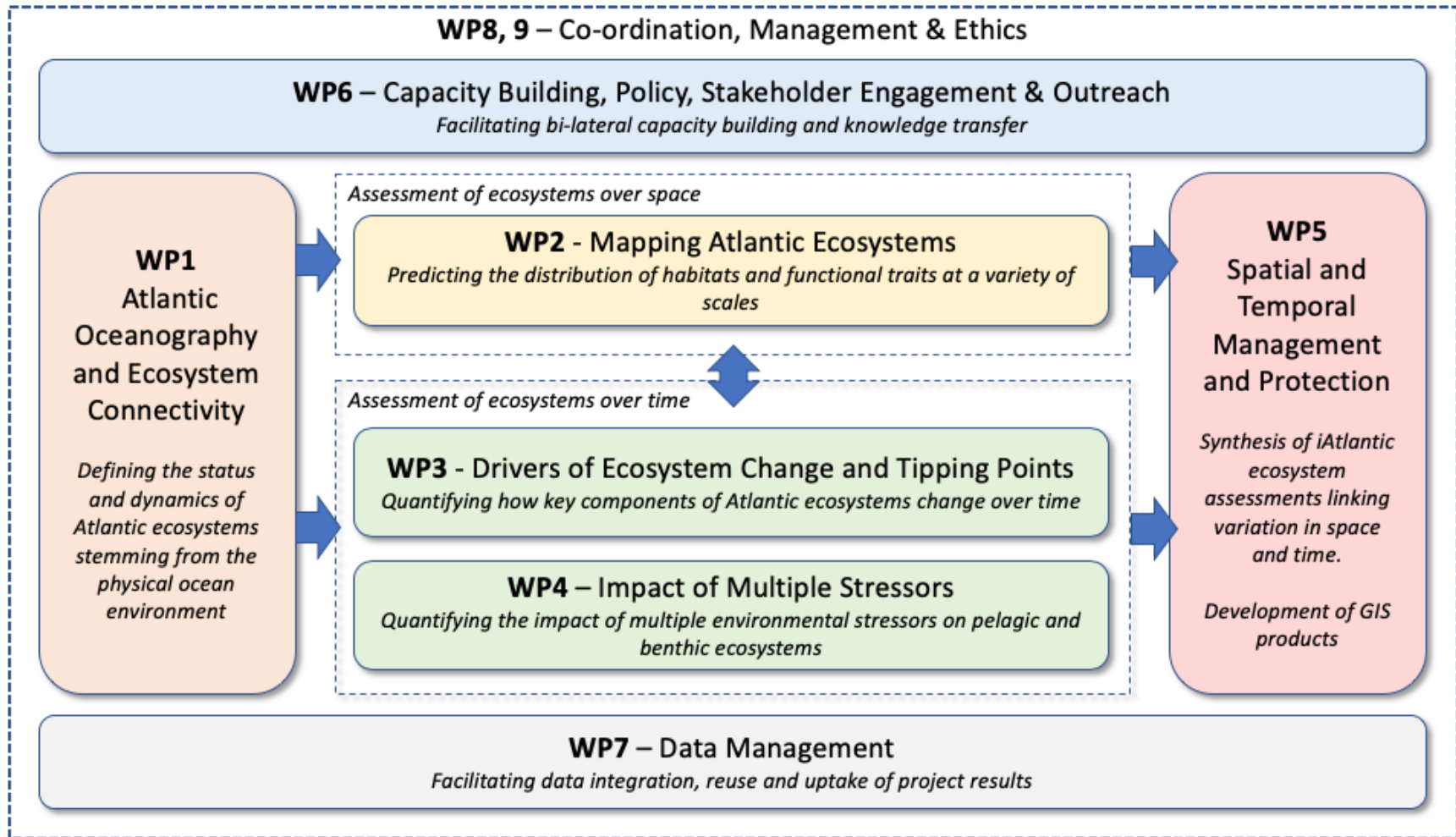


**SARGASSO SEA
COMMISSION**



Pêches et Océans
Canada

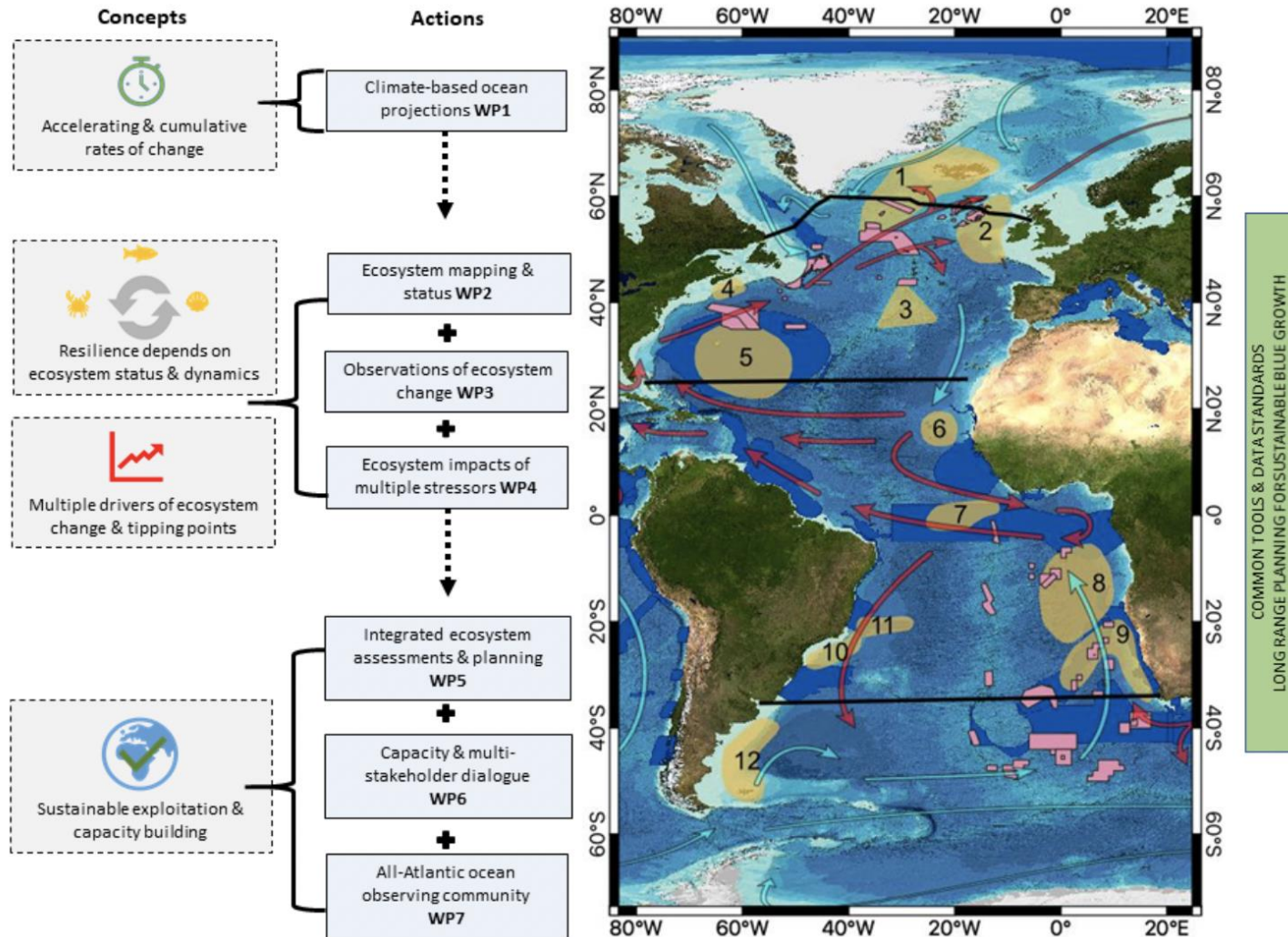
Fisheries and Oceans
Canada





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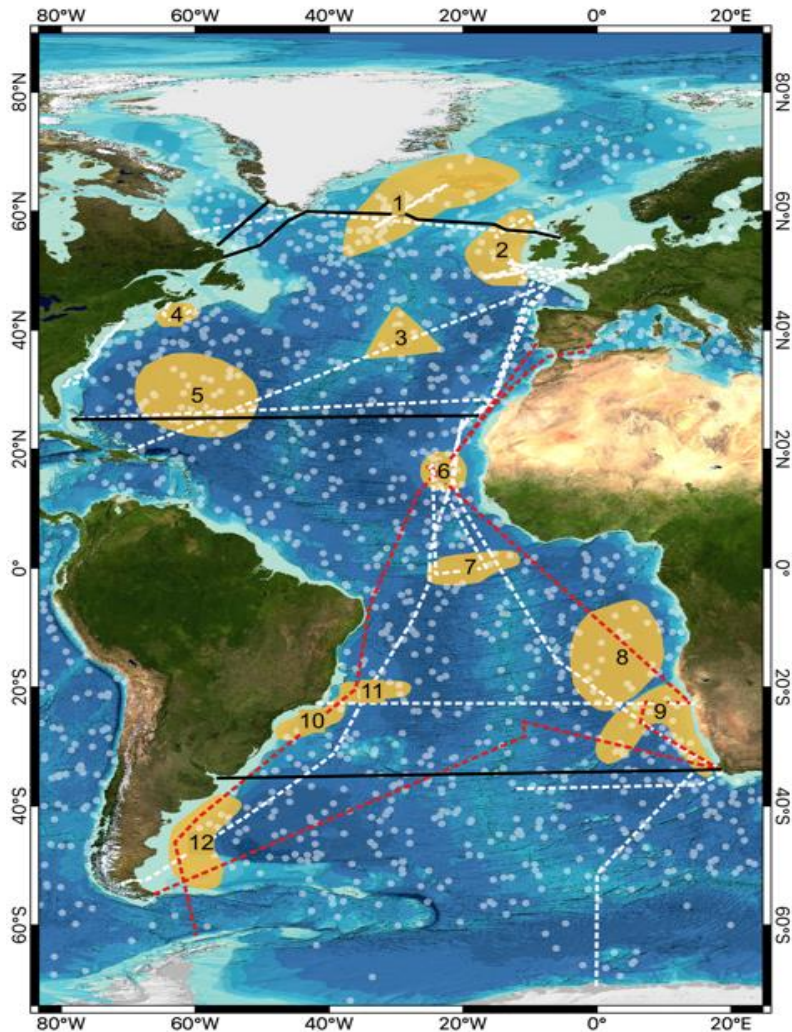


Chart illustrating the density of ARGO floats (grey circles) and positions of transatlantic monitoring arrays (black lines) providing oceanographic data to iAtlantic. Dashed white lines illustrate tracks of iAtlantic cruises with the two S Atlantic Demonstrator Capacity Building cruises iMirabilis and iCorsage shown in red.

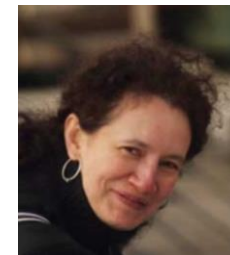


July – October 2020
Inc. transit seabird &
marine mammal observers



Q2 2021
Inc. “Ahoj, all hands on
deck” training

Expedition coordinators



Cova Orejas (IEO)



Boris Dorschel (AWI)

LEADS

WP1



Arne Biastoch
(GEOMAR)

WP2



Veerle Huvenne (NOC)

WP3



Lea-Anne Henry
(UEDIN)

WP4



Andrew Sweetman
(HWU)

WP5



Telmo Morato
(IMAR-UAZ)

WP6



Vikki Gunn
(Seascope)

WP7



Tina Dohna
(UniHB)

DEPUTIES



Didier Jollivet
(SU)



Colin Devey (GEOMAR,
deputy iAtlantic
coordinator)



Marjorlaine Matabos
(Ifremer)



Marina Carreiro-Silva
(IMAR-UAz)



Kate Larkin
(EMODnet)



Sebastian Unger
(TMG)



PANGAEA
(UniHB)

WP8 - Coordination



Murray Roberts
(UEDIN, iAtlantic
coordinator)

SW Atlantic



Angel Perez
(UNIVALI-Brazil)

SE Atlantic



AJ Smit
(UWC-South Africa)

NW Atlantic



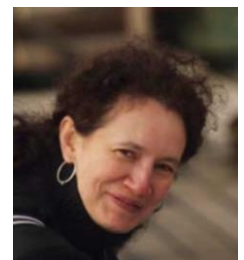
Ellen Kenchington
(DFO Canada)

NE Atlantic



Stefán Áki Ragnarsson
(MFRI Iceland)

Expeditions



Cova Orejas
(IEO)

LEADS

DEPUTIES



Boris Dorschel
(AWI)



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Steering Committee



Phil Williamson (Chair)



Lisa Levin



Kristina Gjerde



2021 United Nations Decade of Ocean Science for Sustainable Development 2030

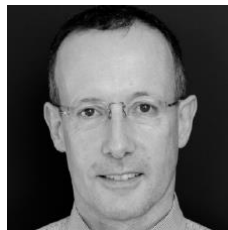


Alan Leonardi



GLOBAL OCEAN TRUST

Torsten Thiele



International Association of Oil & Gas Producers

Wendy Brown

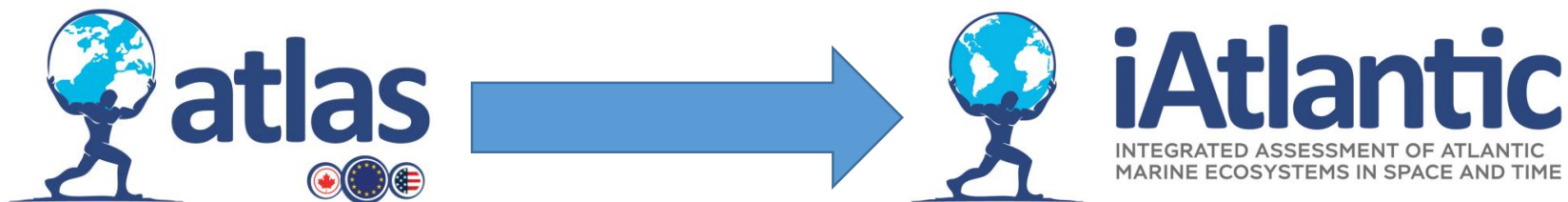


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Advisory Board

iAtlantic embraces collaboration

- Funded alongside TRIATLAS & AquaVitae (2019) and Mission Atlantic & AtlantECO (2020)
- AANChOR coordination support action
- 5-6 Feb 2020 All Atlantic Ocean Research Forum Brussels
- Links between iAtlantic Fellowship and Atlantic Ambassadors
- Working group on UN decade of ocean science
- Builds upon H2020 ATLAS project (2016-20)





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Thank you!

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