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UNDERSTANDING DEEP ATLANTIC ECOSYSTEMS



WP9 Plenary - Dissemination, Knowledge Transfer and Outreach

ATLAS 4th General Assembly, Mallorca, Spain

Annette Wilson, AquaTT

AQUATT
Science. Communication. Knowledge. Innovation.



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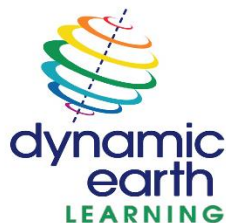
UNDERSTANDING DEEP ATLANTIC ECOSYSTEMS



Increasing Impact: Engaging with ATLAS Stakeholders through Dissemination, Knowledge Transfer and Outreach



THE UNIVERSITY
of EDINBURGH



Overview: WP9

“To ensure effective external **communication, dissemination** and optimal **knowledge transfer** of ATLAS results and applications leading to optimal exploitation of its research outputs”

WP Leader: AquaTT

- Task 9.1 - Elaboration, implementation and monitoring of ‘DEP’ (AquaTT)
- Task 9.2 - Dissemination (AquaTT + UEDIN)
- Task 9.3 - Knowledge Management (AquaTT)
- Task 9.4 - Specific targeted outreach activities (AquaTT + Dynamic Earth)

Overview: WP9 Progress Update



2018												2019								
Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar							
✓ DEP – Review (Reporting; Knowledge Management Protocols)										✓ DEP (V3) - sent to consortium for validation				✓ DEP – Review (Prior Notice Period)						
✓ Dissemination channels & tools (website, social media, press releases, promotional materials) ⇒												✓ Newsletter 3		✓ Newsletter 4				✓ Newsletter 5		
✓ Collection of knowledge outputs										Review KT methodology & activities										
✓ D9.3 Knowledge Transfer Activity Report 1												✓ Analysis of knowledge outputs (stage1)			Collection – Analysis – Develop Pathways ⇒					
Development of outreach resources for D9.4						Testing of outreach resources for D9.4						⇒ School Shows, Public Engagement, Outreach								

Deliverables: **3/5 complete (but updates and new material ongoing)**

- ✓ **D9.1 Dissemination and Exploitation Plan** (although two more updates required)
- ✓ **D9.2 Dissemination Portfolio** (ongoing activity and development)
- ✓ **D9.3 Knowledge Transfer Activity Report 1** (ongoing activity; collection-analysis-transfer of knowledge outputs)

Overview: WP9 Outlook



2019								2020				
Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
DEP – update on portal								DEP – final update				
								DEP – Review ⇨				
								Continuous reporting: Dissemination & Communication Activities				
Dissemination channels & tools (website, social media, press releases, promotional materials) ⇨												
Newsletter 6								Newsletter 7				
Exploitation workshops (Ocean Business 2019) ⇨												
User Development Group								Knowledge Analysis & Validation				
								Knowledge Transfer ⇨				
								✓ D9.5 KT Activity Report 2 ATLAS Compendium				
D9.4 Outreach Educational Portfolio								⇨ Translation of resources ⇨ School Shows, Public Engagement, Outreach				

Deliverables:

- **D9.4 Outreach Educational Portfolio** (April 2019 - M36)
- **D9.5 Knowledge Transfer Activity Report 2** (April 2020 - M48)

Other (Deliverables ongoing):

- ✓ **D9.1 DEP** (two more updates required: June 2019 - M38 and April 2020 - M48; coinciding with EC Reporting)
- ✓ **D9.2 Dissemination Portfolio** (activity ongoing: newsletters, press releases, website, social media, continuous communication support etc)

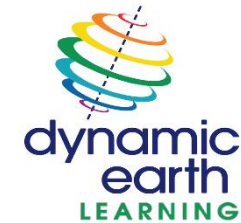
Educational Outreach Portfolio update





Dynamic Earth and ATLAS

- Outreach Portfolio
- Ocean's gallery updates: 'interactives'
- School & family outreach activities
- Conferences: EMSEA & CommOCEAN
- Amundsen cruise engagement; The Geographer magazine





Outreach Portfolio

- 6 x informative banners: ATLAS overview; Case Studies; 'How Deep'; Exploring with Technology; Ocean Literacy and Creature Close-ups.
- Activity sheets for public engagement
- Explanatory packs for learning centres, teachers & public engagement.
- Primary School show
- 360 videos & viewers





Are you Ocean Literate?

A simple definition of Ocean Literacy is 'an understanding of the ocean's influence on you and your influence on the ocean'.

This could be appreciating how your rubbish might end up in the ocean and realising that half of the oxygen we breathe comes from the ocean!

There are 7 core principles to Ocean Literacy - did you know how amazing the ocean is?

1. Earth has one big ocean with many features
2. The ocean and life in the ocean shape the features of Earth
3. The ocean is a major influence on weather and climate
4. The ocean makes Earth habitable
5. The ocean supports a great diversity of life and ecosystems
6. The ocean and humans are inextricably linked
7. The Ocean is largely unexplored



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Exploring with Technology

The deep-sea is a challenging place and scientists can only visit and collect information from a tiny fraction of the ocean. This makes it impossible to find all of the ecosystems that might need protecting. To help solve this problem ATLAS scientists use technology!



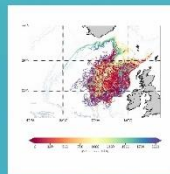
ROVs (Remotely Operated Vehicles) are underwater robots that are usually controlled by the crew on board a research ship. Scientists sit in the control room with the ROV pilots to help decide what to look at or collect. Many of the deep areas studied in ATLAS have strong ocean currents, so the ROVs for ATLAS need to be big and heavy to do their job.



Gliders are small robots that 'fly' underwater using their wings. They can be controlled via a satellite link from anywhere in the world. They normally have lots of different equipment to collect information such as water temperatures and saltness. They can be at sea for up to seven months at a time!



Computer models can be used to find out how different creatures (e.g. coral larvae) might spread out in the oceans via ocean currents. They can also help scientists to work out where certain creatures might be found based on the information that they have collected so far, without having to actually visit that part of the ocean.



EUROPEAN COMMISSION

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Creature Close-ups

Scientists studying the seabed often divide the living things into different groups based on their size. Some creatures are collected by sieving through mud and sand; the size of the holes in the sieve will sort them.

'Macrofauna' are usually too small to be caught in a regular net but they can be sorted by using a fine sieve where the holes are just 0.3-0.5mm wide!

Can you match the creature close-up with the right animal?



Diphylopsis aculeata (Brittle star)



Avicula pulchra (Trophya)



Stenobrevitars laticrus (Aphroditae)



Marisa sena (Aphroditae)

These 'Macrofauna' (or 'Macrobenthos') were collected from the Mingulay Reef Complex in Scotland. To work out what they are, a scientist has taken close-up pictures of particular body parts. The creatures have been preserved, so their colours have faded.

Image credit: Georgios Kazanidis / ATLAS

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Coral Reef Survey



Recommended style of activity	
Public engagement: Family drop-in activity with floor mat; group activity with A3 sheets	Schools: Class activity with A3 sheets
Suggested age range: 4+ years	
Approximate time: 10-15 minutes	

Background Science

Just like their tropical cousins, cold-water coral reefs provide a habitat for many different creatures, which find shelter, food and even a safe place to lay their eggs amongst the coral. In this activity you can explore the diversity of a cold-water coral reef using a composite image. The image features some of the more commonly found creatures along with some of which were selected as they are more easily recognised. The right-hand side of the image shows the living coral reef, mainly composed of white and orange varieties of the cold-water coral *Lophelia pertusa*. In between the reef and the muddy sea-floor on the left of the image is an area covered in dead coral 'rubble'. On a real reef, this is where the highest diversity of creatures is usually found. This image has been created from images taken of the Logachev Mounds, an Rockall Bank, a large underwater landscape to the west of the UK around 600-1000m deep. The mounds of coral can be 500 m high and several kilometres long!

Surveying cold-water coral reefs poses much more of a challenge than shallow tropical reefs and requires specialist equipment such as ROVs (Remotely Operated Vehicles), underwater cameras and submersibles. Different scientists will look at hundreds of photos and videos to work out what lives around the reef. It can take years to fully understand the biodiversity of these areas!

Some interesting creatures to highlight include the 'Carrier crab' which is using its 9 and 10th legs to carry a piece of coral as a way of defending itself; the basket star which is related to starfish and in real life can be 107cm across and the black coral which has skate eggs attached (small, brown purse-like shapes) which indicates that the reef might be viewed by some creatures as a safe place for young to hatch out.

Curriculum for Excellence Links (Scotland):

I can distinguish between living and non living things. I can sort living things into groups and explain my decisions. **SCN 1-01a**

I can identify and classify examples of living things, past and present, to help me appreciate their diversity. I can relate physical and behavioural characteristics to their survival or extinction. **SCN 2-01a**

Kit List:

For the floor-mat drop-in activity

- ReefSurveyMat image printed on a large scale (we used the PDF version printed on Vinyl banner material 1.5m tall x 3m long via a local printing company).
- Plastic magnifying glasses
- Printed & laminated copies of 'Reef Survey Key'
- Dry wipe pens and tissue for filling out sheets and cleaning them.

For the class/group activity with A3 sheets

- ReefSurveyMat image printed on A3 paper (suggested 1 per pair)
- Plastic magnifying glasses
- Printed copies of 'Reef Survey Key' (suggested 1 per pair of participants)
- Pens for completing survey sheets.

For both activities, introduce the concept of a cold-water coral reef as an important habitat in the deep sea and tell the participants they have been tasked with carrying out a survey of the reef. For younger children you can simply ask them to find all of the different creatures.

You may also want the answer sheet: ReefSurveyKeyAnswers



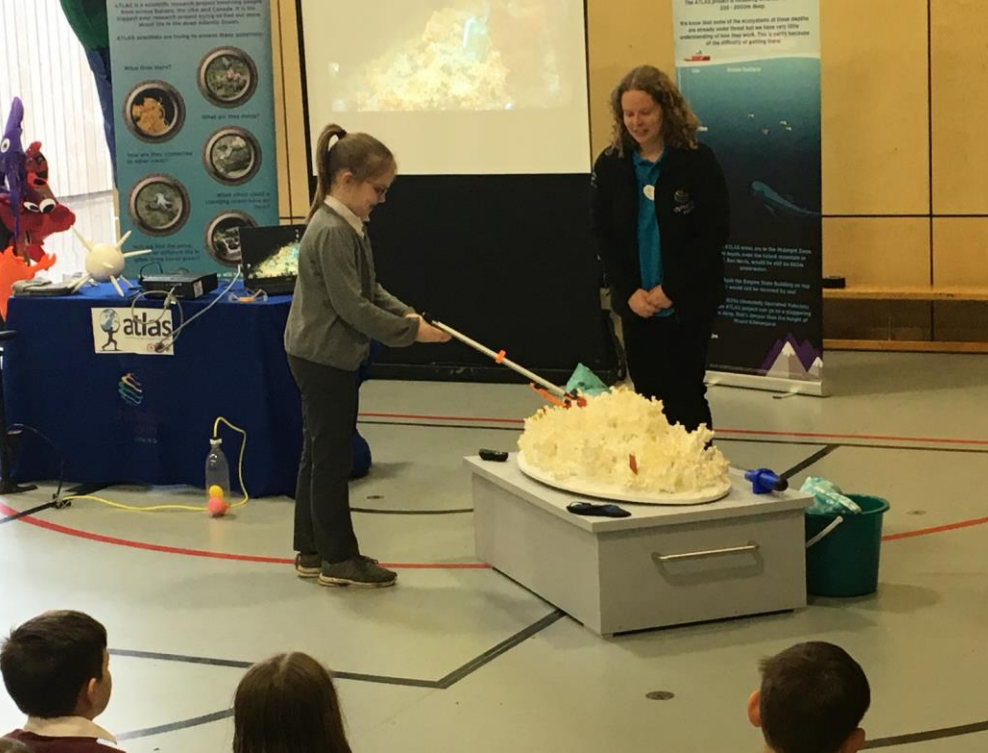


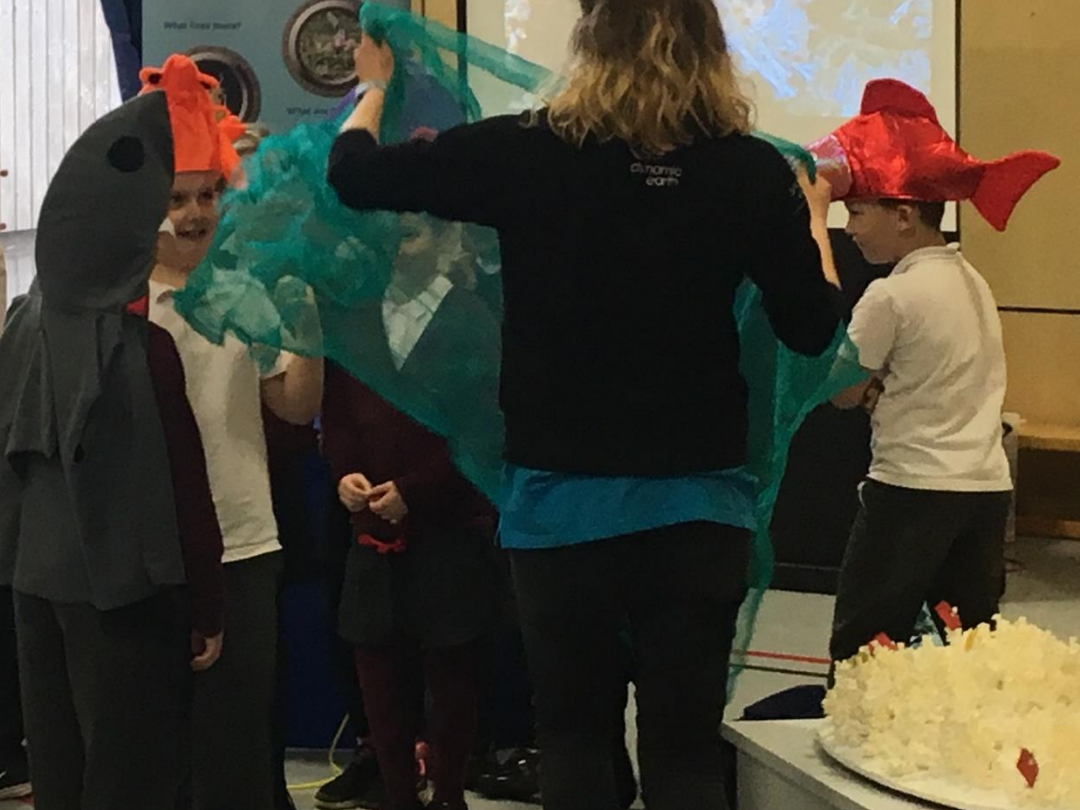
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Dynamic Earth Outreach

- 8 regional science festivals and events away from Dynamic Earth from Orkney to Dumfries & Galloway.
- Strathearn & Caithness Science Festivals in March: over 1,250 pupils saw the 'Atlantic Adventures with ATLAS' show and nearly 3,000 family members interacted with ATLAS outreach activities.
- Upcoming activities during Edinburgh Science Festival: 'Scotland's Cold Water Corals' & ATLAS drop-in activities.







Gallery updates:

- ATLAS cruise compilation video
- 'Quiver' 3D Augmented Reality colouring-in
- ROV simulator
- Case Study information point with Geovisionary fly-throughs of bathymetry for selected case studies.





ROV simulator

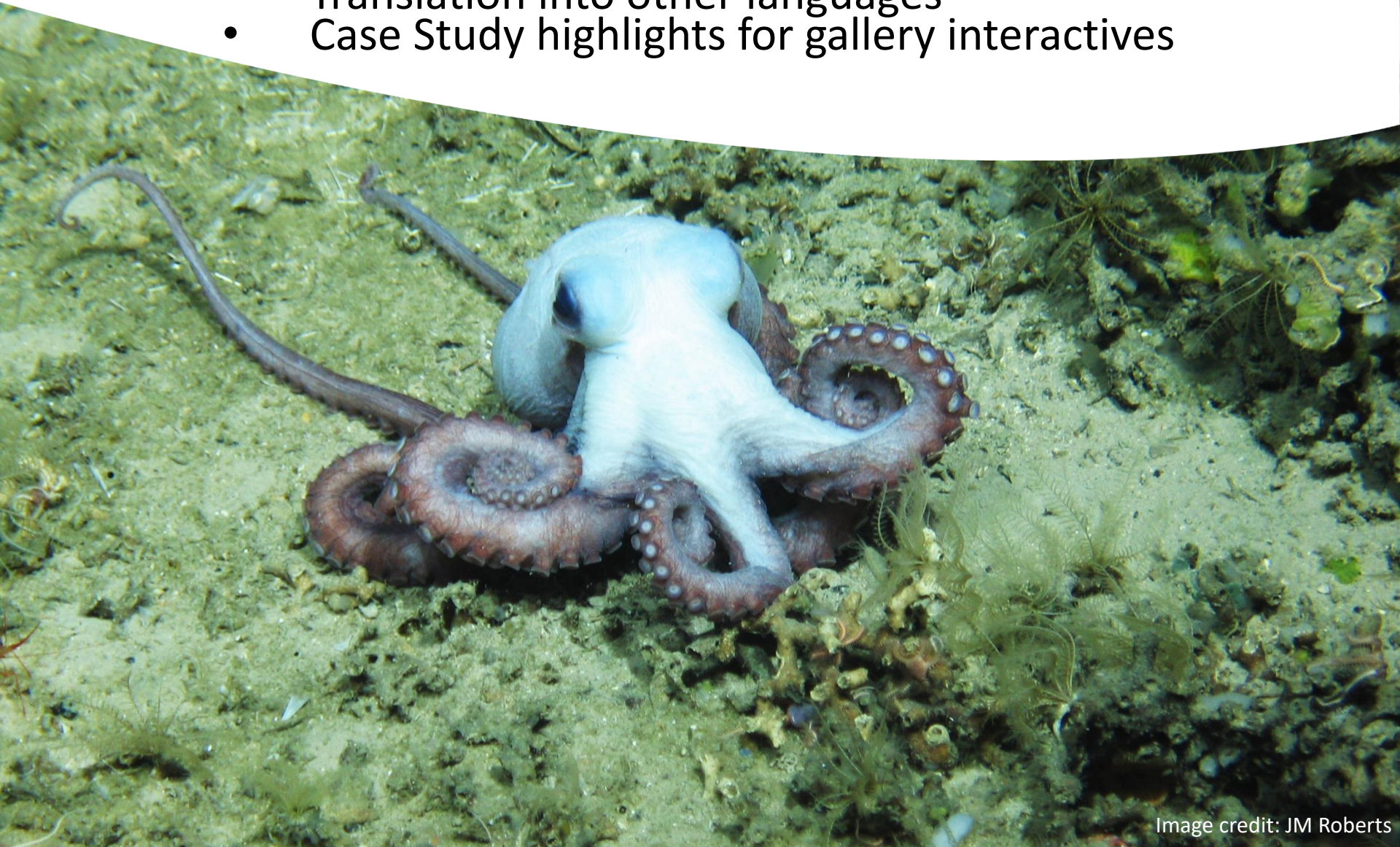
- 4 missions: vent sampling; creature collection; sediment sampling & swimming pool training mission.
- Case study images used to generate 3D environment.
- 4 licences; additional ones available for purchase
- 3D model online



We need you!



- Translation into other languages
- Case Study highlights for gallery interactives



Increasing Impact: ATLAS DEP Updates





Task 9.1: Elaboration, implementation and monitoring of the 'DEP'

- The DEP describes the activities to be performed and the dissemination and exploitation means to be used in order to **promote ATLAS and exploit the project results**
- **Status**: Submitted (D9.1-M5), revised (M14) to align with Data Management Plan (D8.1), reviewed and updated (M32 – V3).
- Latest version (V3) was distributed to the consortium for validation in December 2018. V1 rejected from the EC portal to facilitate upload of the latest version.
- Further revisions and recent updates to the Consortium Agreement to be incorporated (expected by June 2019).
- **Note: this not an official deliverable/milestone, but best practice!**

Important updates!

- Updated protocols in V3 (June 2019)
- Prior Notice: **35 days publications / 15 days for oral & poster presentations and exploit the project results**
- Clarification on process: **before any external communication.**
- Dissemination agreements: **partner names, logos etc can be used**

The DEP is required to be a ‘live’ document that should be updated according to project progress:


- ❖ Update the DEP according to **emerging results** of the project
- ❖ Consider **changes in the stakeholders, work context** and **potential use of results** during the project lifetime
- ❖ Separate dissemination and exploitation plans is good practice

Continuous Reporting Excel Template



- New Excel template developed to aid continuous reporting of all communication and dissemination activities
- Quick guide (protocols from DEP V3) – February 2019
- The reporting template contains separate worksheets to report on **1) Publications;**
2) Dissemination & Communication activities; **3) Patents (IPR).**

ATLAS Continuous Reporting Template

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UNDERSTANDING DEEP ATLANTIC ECOSYSTEMS

ATLAS: A trans-Atlantic assessment and deep-water ecosystem-based spatial management plan for Europe
Project number: 678760

INTRODUCTION

This document is used to record all **Dissemination, Communication & Exploitation Activities (including Scientific Publications)** carried out in the ATLAS project. This template has been developed to ensure all information required by the EC Participant Portal (for continuous reporting) is collected efficiently.

Partners should keep track of all their activities. This form will be collected during internal reporting periods (every 6 months) by the ATLAS Project Office.

This document includes 5 worksheets:

1. Introduction (current page)
2. Publications template - **to be completed by each partner**
3. Dissemination and Communication Activities template - **to be completed by each partner**
4. Patents (IPR) template - **to be completed by each partner**
5. Definitions

METHODOLOGY

1. Introduction | 2. Publications | 3. Diss & Comms Activities | 4. Patents (IPR) | 5. Definitions

Pre-and Post-publication requirements



- **Types of Scientific Publications:** Articles in Journals; Publication in conference proceedings /workshop; (Chapter in) Book / Monograph; Thesis / dissertation.
- Give appropriate prior notice
- Publish in **Green** / **Gold** Open Access.
- Keep track of all scientific publications (ATLAS Continuous Reporting Template (Excel) distributed every 6 months)
- **ATLAS Partners are responsible for ensuring that all their scientific publications are uploaded the EC Funding & Tender Portal.**
- Always include EC disclaimer, acknowledgement and emblem:

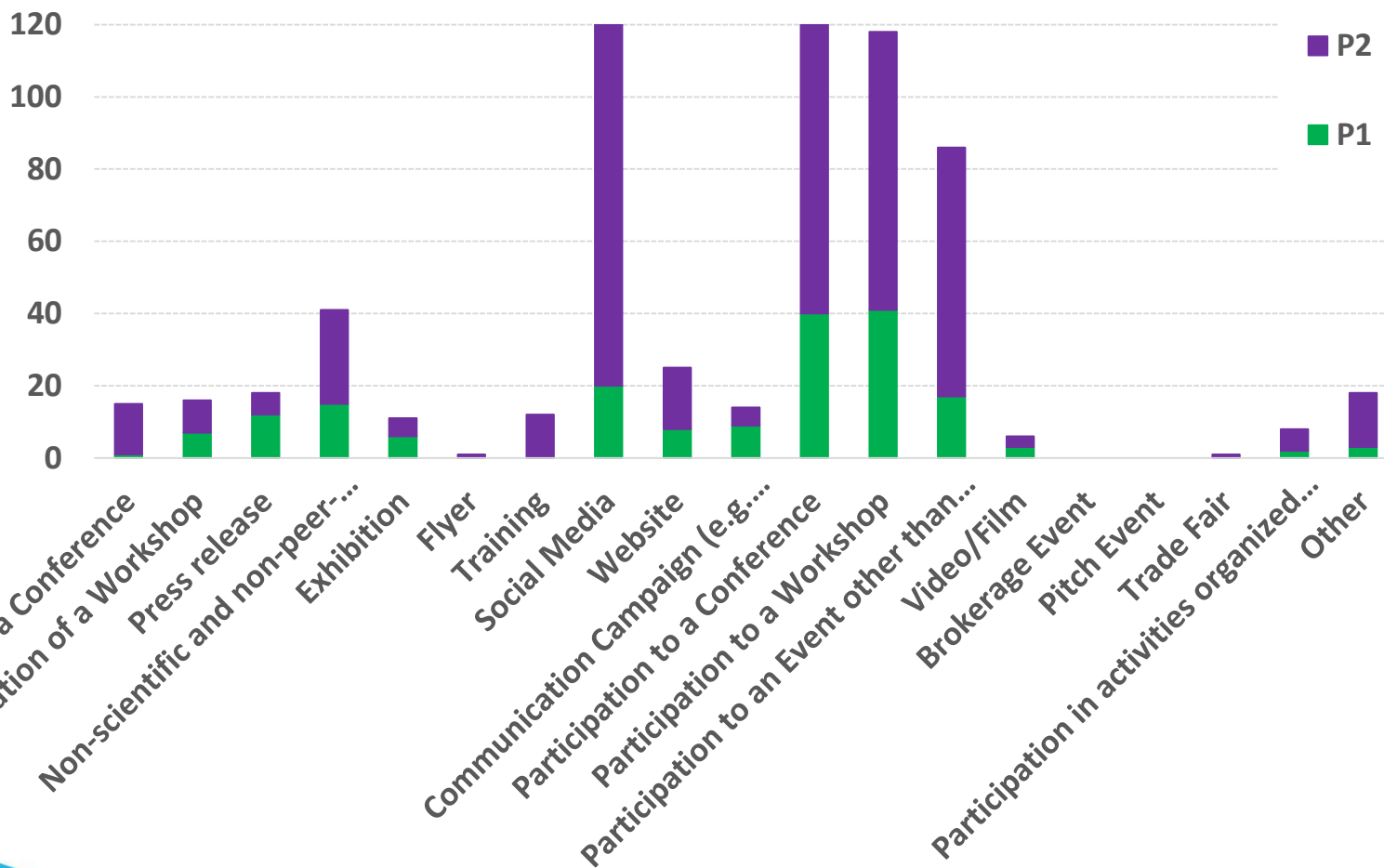


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Dissemination & Communication Activities atlas

- **Type of activity (specify number of activities per type):** organisation of a conference or workshop, press release, popularised publication, exhibition, flyer, training, social media, website, communication campaign, participation in a conference, workshop or other event, video/film, brokerage event, pitch event, trade fair, participation in activities organised jointly with other H2020 projects.
- Keep track of all activities using the ATLAS Continuous Reporting Template (Excel). Return to the ATLAS Project Office
- **Please ensure ALL information is complete: Audience type and size**
- **AquaTT / UEDIN are responsible for collating the information and uploading to the EC Funding & Tender Portal**

Dissemination & Communication Activities: P1 V P2





Increasing Impact: KT

- **ATLAS integrated KT approach & activities:**

- **Science:** Publications (52 +), Research outputs (data) – available on OpenAIRE, EMODnet for exploitation – WP8
- **Policy:** Policy Messages – Policy events – WP7
- **Industry:** Case Studies; Exploitation Workshops – WP6, WP7, WP8, WP9
- **Society:** OL – Public Engagement – Portfolio + Resources – WP9

Do you know anyone that would be interested in joining the ATLAS User Development Group?

- ATLAS expects to produce commercially-interesting outputs, in particular on marine information systems. In order to transfer results to commercial end users such as software developers and environmental consultancy organisations, we are inviting stakeholders to join the ATLAS User Development Group.

Engaging with stakeholders: dissemination resources and tools



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Task 9.2: Dissemination

- **Tools & Resources (templates, logos, banners, timeline):** <https://www.eu-atlas.org/resources/public-documents>
- **Media coverage – press releases, big media pick up!**
- **Changes to website**
- **Social media focus**
- **Increased activities: conferences, workshops (~680 activities)**
- **‘ATLAS The Movie’!!!**

'ATLAS The Movie' – COMING SOON!!



#ATLASGA2019



Website – updates



Google Analytics showed 2770 visitors to the website. 81.24% accessed the website via a desktop.

<https://drive.google.com/file/d/10PNeUNhCtBt2we9oqzMPoY5k-1LGZm7l/view>



Social Media

Twitter (est. June 2016):

- Followers: 1,003
- Tweets: 933

ATLAS YouTube channel





- 15 ATLAS videos
- 360 videos.

LinkedIn

- 47 members

A snapshot of tweets (90 days: 9th Nov 2018)

45.8K impressions earned.

Tweets	Top Tweets	Tweets and replies	Promoted	Impressions	Engagements	Engagement rate	
	Eu_ATLAS @eu_atlas · Aug 29 Read about AMOC for smarties, natural history of Atlantic octocorals & much more in the latest @eu_atlas newsletter! Find it at edin.ac/2wm7dla @EU_H2020 @EU_EASME @AquaTT_Ireland @LearnAtDynamic pic.twitter.com/fMFCeuZJiQ View Tweet activity			3,038	55	1.8%	Promote
	Eu_ATLAS @eu_atlas · Oct 1 #doorsopenday at @uniofedinburgh Grant Institute at the weekend! Georgios and Simone showed lots of visitors the work of #EU_ATLAS at the Changing Oceans lab - check out his cool #LEGO model of a manned underwater vehicle! @LearnAtDynamic @AquaTT_Ireland @GeosciencesEd pic.twitter.com/oprLtvbhgx View Tweet activity			2,647	103	3.9%	Promote
	Eu_ATLAS @eu_atlas · Sep 5 Great @eu_atlas event at the #BBNJ taknign place in New York helping to #SaveOurOcean: un.org/bbnj/ Many thanks to @IDDRI_ThinkTank for hosting pic.twitter.com/N9RjwFV0e View Tweet activity			2,515	50	2.0%	Promote
	Eu_ATLAS @eu_atlas · Nov 9 less than a week to deadline 15 Nov for submissions to @FrontMarineSci research topic! twitter.com/eu_atlas/statu... View Tweet activity			2,322	20	0.9%	Promote



Newsletters



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

ISSUE 3 | APRIL 2018

project news

ATLAS is a four-year research and innovation project that aims to advance our understanding of the deep Atlantic Ocean ecosystems. **ATLAS** will provide essential new knowledge for effective ocean governance and adaptive management strategies that stimulate Blue Growth. It is the largest integrated study of deep Atlantic ecosystems ever undertaken. Funded under the European Union's Framework Programme for Research and Innovation, Horizon 2020, it has a total budget of €9.4 million and is led by the University of Edinburgh (Scotland, UK).

24+1 PARTNERS 12 COUNTRIES

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 Welcome from the ATLAS Coordinator p2
 Farewell and Welcome p2
 Introducing our Advisory Board Members: Statoff p5
 News and Highlights p5
 Events p8
 Outreach p8
 Young Scientist Corner p8
 Case Study - the LoVe Observatory p10
 ATLAS Recent Publications p12

Photo: © P. Blair (M&B/CRK)

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

ISSUE 4 | SEPTEMBER 2018

project news

24+1 PARTNERS 12 COUNTRIES

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 - AMOC for Smarties p5
 - The Natural History of Atlantic Octocorals p7
 - Blue Growth: the mandate for ATLAS research p7
 CRUISE NEWS p8
 YOUNG SCIENTIST CORNER p10
 CASE STUDY - THE REYKJANES RIDGE p11
 ATLAS RECENT PUBLICATIONS p12

ATLAS is a four-year research and innovation project that aims to advance our understanding of the deep Atlantic Ocean ecosystems. **ATLAS** will provide essential new knowledge for effective ocean governance and adaptive management strategies that stimulate Blue Growth. It is the largest integrated study of deep Atlantic ecosystems ever undertaken. Funded under the European Union's Framework Programme for Research and Innovation, Horizon 2020, it has a total budget of €9.4 million. Led by the University of Edinburgh (Scotland, UK).

Photo: Edmond S. Roca

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

ISSUE 5 | MARCH 2019

project news

25+1 PARTNERS 12 COUNTRIES

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 INDUSTRY CORNER p4
 POLICY SPACE p5
 CASE STUDY 11 - FLEMISH CAP p6
 ATLAS OUTREACH & PUBLIC ENGAGEMENT p7-8
 ATLAS RECENT PUBLICATIONS p8

ATLAS is a four-year research and innovation project that aims to advance our understanding of the deep Atlantic Ocean ecosystems. **ATLAS** provides essential new knowledge for effective ocean governance and adaptive management strategies that stimulate Blue Growth. Funded under the European Union's Framework Programme for Research and Innovation, Horizon 2020, **ATLAS** brings together 25 partners (and one linked third party) from 10 European countries, the USA and Canada and is led by the University of Edinburgh (Scotland, UK).

Photo: Sabona Stockart

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Designed and developed by AxiTT, with input from ATLAS partners

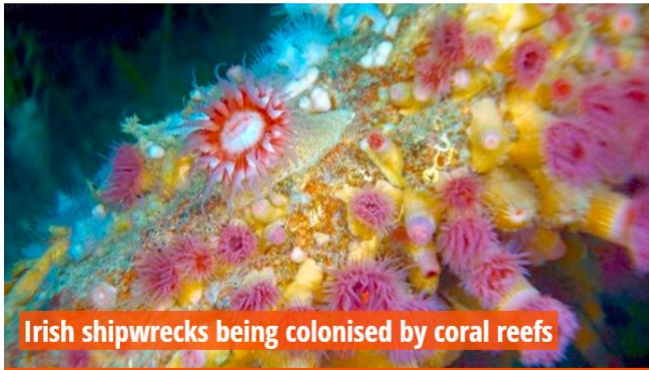
ATLAS Project News Issue 6 – coming August 2019!

Highlights

Irish Examiner

IRELAND ▶ WORLD SPORT ▶ BUSINESS VIEWS ▶ LIFE ▶ PROPERTY TECH SHOWBIZ ▶ M
HOT TOPICS: US BUSINESS METROLINK CONOR MCGREGOR DONALD TRUMP BREXIT SYRIA

HOME ▶ IRELAND



Irish shipwrecks being colonised by coral reefs

Colourful anemones colonising the superstructure of the wreck found off the coast of Kerry. Picture: CRIS, University of Limerick

Climate change hits Irish Atlantic Ocean heating system - BBC News
Home News Sport Weather Shop Earth Travel

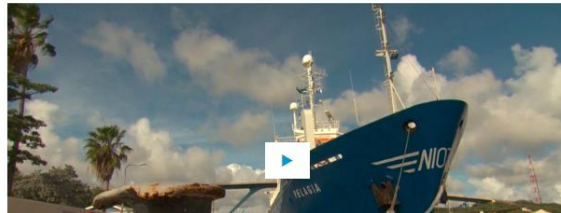
**omroep
zeeland**

Nieuws Sport Weer TV

DINSDAG 8 MEI 2018, 14:28

Zeeuwse wetenschappers willen oceanen te redden

Zeeuwse wetenschappers, werkzaam bij het NIOZ in Yerseke, treden in de voetsporen van de bekende ontdekkingsreizigers Charles Darwin, Abel Tasman en Willem Barentsz. Ze varen met een schip vol andere wetenschappers de wereld over om in een jaar tijd in twaalf etappes op allerlei plekken onderzoek te doen in onze oceanen.

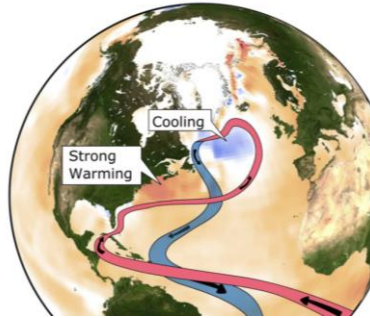


ATLANTIC OCEAN CIRCULATION
Scientists say Atlantic Ocean circulation is at its weakest in 1,600 years

BBC NEWS 20:55 MILITARY ACTION

Energy and Environment
The oceans' circulation hasn't been this sluggish in 1,000 years. That's bad news.

By Chris Manning



Audiences / Persons reached (P2)

~ 6,000 policy

~ 4,000 industry

~ 60,000 scientific community

~ 85M General Public

Açoriano Oriental
O mais antigo jornal português. Fundado em 1826.
Início Opinião Dossiês Desporto Informações Úteis Edição Impressa Vídeos Açores
Regional Nacional Internacional Economia Ciência Cultura & Social

Descoberto novo campo hidrotermal no Açores



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Gulf Stream system at weakest point in 1,600 years

is now at its weakest in 1,600 years, studies show | Environment | The Guardian

**The
Guardian**

Times LIVE

NEWS POLITICS 2019 ELECTIONS SPORT TSHISALIVE LIFESTYLE BUSINESS



ATLAS, WP9 and YOU!

- Share your exciting research and results!
- Like, share and follow us on social media!
- Join the ATLAS group on LinkedIn – [ATLAS - Deep Discoveries](#)
- User Development Group
 - Do you know anyone that would be interested in joining?
 - Do you have any knowledge that could be developed?
- **Please tell us your stories and what you are up to!**

Thank You



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Questions?

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