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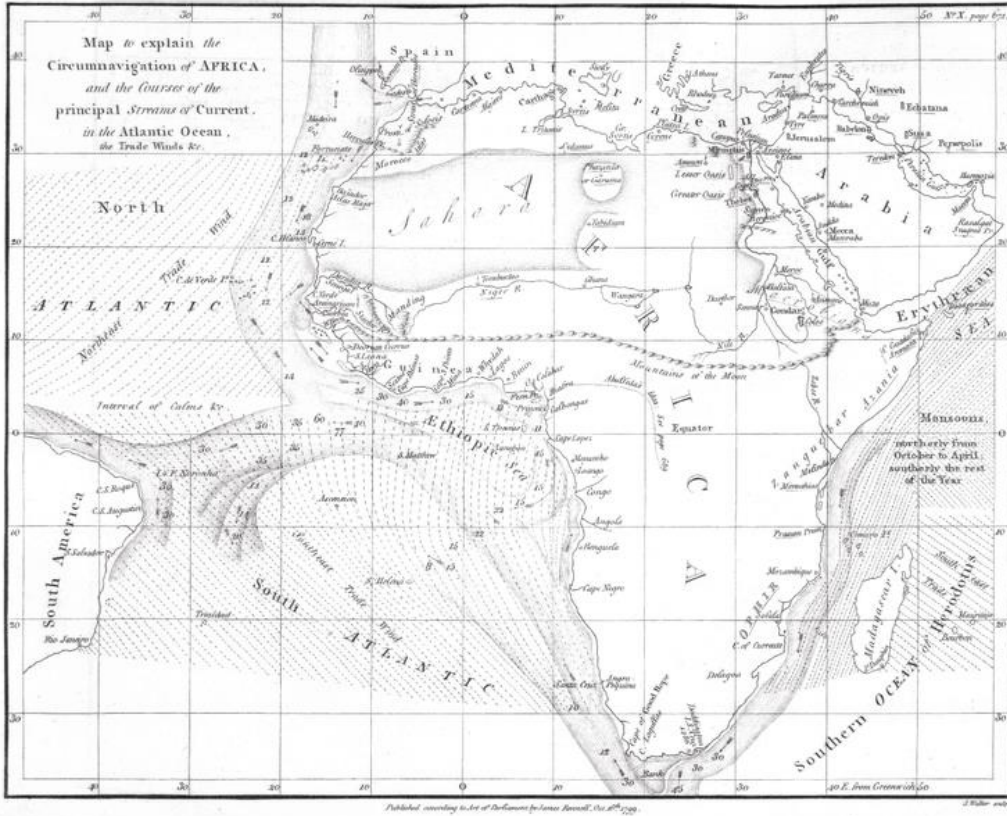
# G7 Future of the Seas and Oceans

**Claire Durkin**

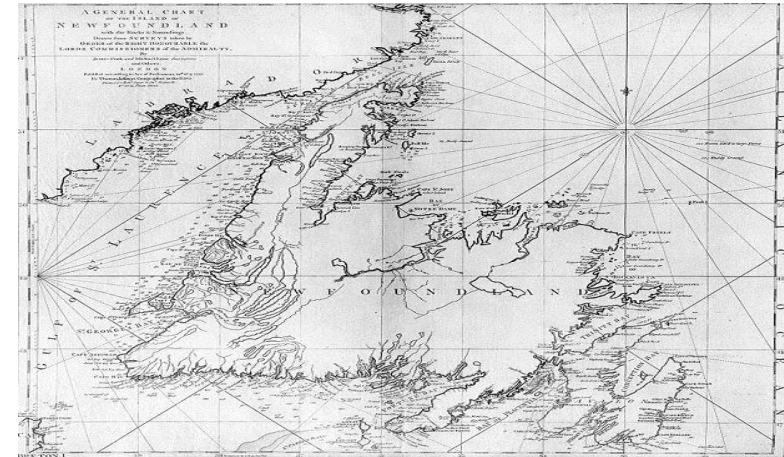
Head of Global Science, Innovation and Knowledge Economy



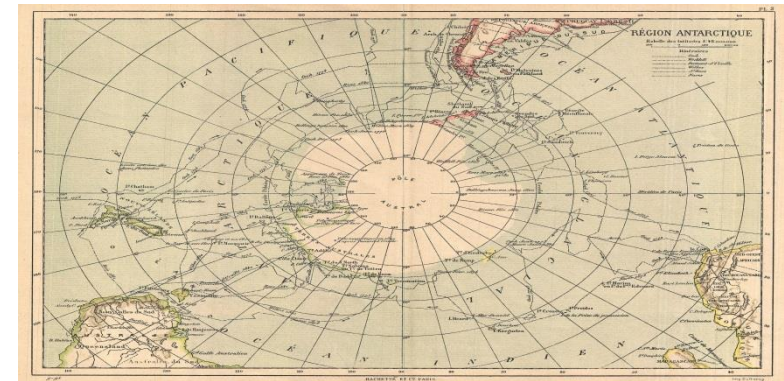
# A History of Leadership in Marine Science and Research



Above: Map of the currents in the Atlantic and Indian Ocean. James Rennell, 1799



Above: A General Chart of the Island of Newfoundland. James Cook and Michael Lane, 1775



Right: Map of Antarctica. Published by Hachette and Co, 1890. James Clark Ross charted much of the coastline of the continent between 1839 and 1843

# G7 Initiative: Background and Milestones

2015

**October: G7 Science Ministers, Berlin**

- German Presidency included marine litter and deep sea mining on the G7 agenda.
- In Berlin, G7 Science Ministers committed to *“continuing discussions and developing a proposal for how we can most effectively enhance international cooperation amongst the G7 and other interested countries.”*

2016

**March:** First G7 Marine Science Experts’ Working Group, Southampton

- Resulted in 5 Action Areas to address challenge of creating a comprehensive and coordinated ocean observation system.

**May: G7 Science Ministers, Tsukuba**

- Ministers endorsed the 5 Action Areas and tasked G7 Marine Science Experts to develop proposals to take these forward.

**November:** Second G7 Marine Science Experts’ Working Group, Southampton

- More refined proposals developed for five action areas.
- Also agreement of country co-leads for each Action Area

2017

**Present:** Co-leads are developing 6 months, 2 years and 5 years Action Plans by G7 Marine Science Experts. Implementation is getting underway

**April:** Dialogue with G7 Ministries and Funding Agencies will formerly get underway

**June:** Potential meeting of G7 Marine Science Experts, Government Ministries and Funding Agencies

**September: G7 Science Ministers, Torino**

# G7 Initiative: Five Action Areas

Recommendations in Tsukuba Communiqué, May 2016	
1	Support the development of an initiative for enhanced global sea and ocean <b>observation</b> required to monitor inter alia climate change and marine biodiversity, e.g. through the Global Argo Network and other observation platforms, while fully sustaining and coordinating with on going observation.
2	Support an enhanced system of <b>ocean assessment</b> through the UN Regular Process to develop a consensus view on the state of the oceans, working to a regular timescale which would enable sustainable management strategies to be developed and implemented across the G7 group and beyond.
3	Promote open science and the improvement of the global <b>data sharing</b> infrastructure to ensure the discoverability, accessibility, and interoperability of a wide range of ocean and marine data.
4	Strengthen collaborative approaches to encourage the development of <b>regional</b> observing capabilities and knowledge networks in a coordinated and coherent way, including supporting the <b>capacity building</b> of developing countries.
5	Promote increased G7 <b>political-cooperation</b> by identifying additional actions needed to enhance future routine ocean observations.

**Please note:** The November Workshop Action Proposals will be circulated with the slides after the Annual Meeting



# G7 Initiative: Challenges

Risks

## Resource availability for activities

- Look at multiple sources
- Focus on what can be implemented with available resources
- Lay foundations for 2018

## Political commitment across the G7

- UK maintains leadership
- Technical work-stream (scientists/specialists) continue regardless
- Utilise bilateral opportunities to progress implementation

## Timeframe Pressures

- UK uses its position as coordinator to maintain momentum
- Utilise bilateral opportunities to progress implementation
- Work with Canada (next G7 Presidency) to set groundwork for next year

## Internal dialogue between technical (scientists/specialists) and political (Governments/Funding Agencies) work-streams

- This is core UK strength
- BEIS is reaching out to other Ministries and Funding Agencies to formerly start a dialogue about resources
- Invite research community to share their vision

Mitigations

# G7 Initiative: Opportunities

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## In 2017:

- Finalise 6 months, 2 years and 5 years Action Plans.
- Increase dialogue with other G7 Government Ministries and Funding Agencies.
- Submit Workshop Action Proposals to Ministers in September.
- Support scientists and specialists in implementation.
- Keep the Initiative at the forefront of the G7 agenda going forward – i.e. at the Science Ministers' Meeting in September and the G7 Canada Presidency in 2018.
- Continue strengthening bilateral relationships.

## In 2018:

- More stability across G7 - implementation of higher ambition proposals



# A Shared Vision

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- The G7 Initiative provides significant opportunity for the UK by:
  - Reinforcing our position as a **global leader** in marine science;
  - Tackling significant **global challenges**; and,
  - Enabling **stronger international relationships** in science and research.
- Share your vision for this work with us:
  - Q&A after this presentation;
  - Get in touch with us (contact details also on final slide); and,
  - Come and meet us (e.g. Marine Science Coordination Committee Plenary, 6 June).



Thank you for listening – I welcome any questions

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**March G7 Marine Science Experts Workshop.**  
NOC Southampton



# Contacts

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## Naomi White

Oceans and Polar Policy Advisor (UK Government Coordinator of G7 Initiative)

[Naomi.White@beis.gov.uk](mailto:Naomi.White@beis.gov.uk)

Action 1	Co-lead	Active	Informed
1	Italy, UK, US (Adrian Martin <a href="mailto:adrian.martin@noc.ac.uk">adrian.martin@noc.ac.uk</a> coordinating UK input)	Canada, EC, France, Germany, Japan	
2	US, UK (Adrian Martin <a href="mailto:adrian.martin@noc.ac.uk">adrian.martin@noc.ac.uk</a> coordinating UK input with the University of Southampton)	Italy, Japan	Canada, EC, France, Germany
3	France, Japan	Canada, EC, Germany, Italy, US, UK (Graham Allen <a href="mailto:graham.allen@noc.ac.uk">graham.allen@noc.ac.uk</a> coordinating UK input with the University of East Anglia)	
4	Italy, UK (Kevin Horsburgh <a href="mailto:kevinh@noc.ac.uk">kevinh@noc.ac.uk</a> coordinating UK input with CEFAS)	Germany, Japan, US	Canada, EC, France
5	Italy, US, UK (Roland Rogers <a href="mailto:rxr@noc.ac.uk">rxr@noc.ac.uk</a> coordinating UK input with the University of Southampton)	EC, Germany, Japan	France, Canada



# Contacts

Action 1 Sub-Action Areas	Leads	Assistance
Oversight	Italy, US, UK (Adrian Martin <a href="mailto:adrian.martin@noc.ac.uk">adrian.martin@noc.ac.uk</a> coordinating on UK side)	Canada, EC, France, Germany, Japan
Sustainable funding	Germany	
G7-GOOS liaison	UK (Adrian Martin <a href="mailto:adrian.martin@noc.ac.uk">adrian.martin@noc.ac.uk</a> coordinating UK input with SAHFOS)	
Biogeochemical Argo (BGC-Argo)	France	US, Japan
Deep ARGO	Japan	US
Gliders in polar and boundary regions (including under ice)	UK (David Smeed <a href="mailto:das@noc.ac.uk">das@noc.ac.uk</a> coordinating UK input with BAS and SAMS)	US, France
Underway Data (e.g. climate relevant data and CPR)	UK (Elizabeth Kent <a href="mailto:eck@noc.ac.uk">eck@noc.ac.uk</a> coordinating UK input with the University of East Anglia)	Germany
Sensor development (particularly biological/biogeochemical sensors)	UK (Matt Mowlem <a href="mailto:matm@noc.ac.uk">matm@noc.ac.uk</a> coordinating UK input with the University of Plymouth)	Japan
Augmented observatories (to allow deeper investigation of marine biology)	Italy	Germany, UK (Adrian Martin <a href="mailto:adrian.martin@noc.ac.uk">adrian.martin@noc.ac.uk</a> coordinating UK input)
GLOSS sea level network	US	
Research vessels (including GO-SHIP)	Germany, France	

## Guidance for contacting us

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- For scientific and technical queries, please contact Action Area leads directly (details are included on slides 9 and 10).
- For queries relating to international policy or the overarching Initiative, please contact Naomi White ([Naomi.White@beis.gov.uk](mailto:Naomi.White@beis.gov.uk)) in the first instance.
- Many thanks and we look forward to hearing your thoughts and vision for the G7 Initiative going forward.

