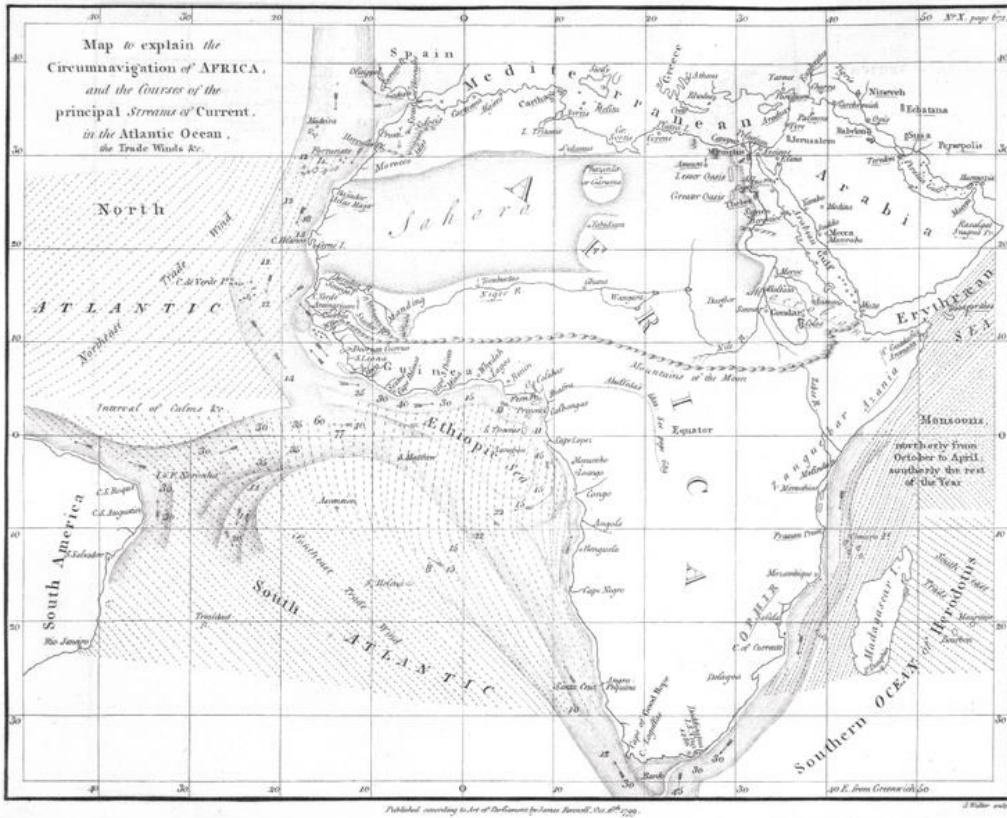

G7 Future of the Seas and Oceans

Claire Durkin

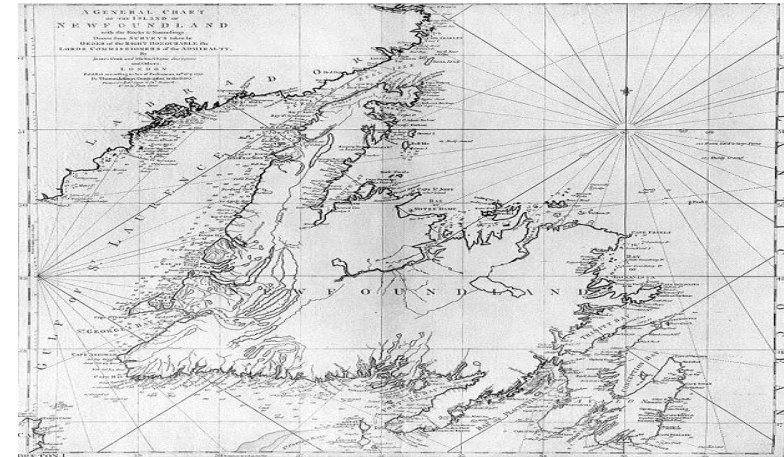
Head of Global Science, Innovation and Knowledge Economy



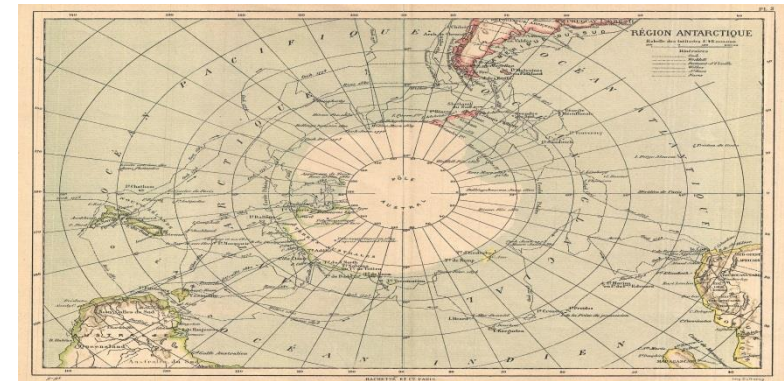
A History of Leadership in Marine Science and Research



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 observation 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 ocean assessment 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 data sharing 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 regional observing capabilities and knowledge networks in a coordinated and coherent way, including supporting the capacity building of developing countries. |
| 5 | Promote increased G7 political-cooperation 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

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



- 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



March G7 Marine Science Experts Workshop.
NOC Southampton

Contacts

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

Naomi.White@beis.gov.uk

| Action 1 | Co-lead | Active | Informed |
|----------|--|---|-----------------------------|
| 1 | Italy, UK, US (Adrian Martin adrian.martin@noc.ac.uk coordinating UK input) | Canada, EC, France, Germany, Japan | |
| 2 | US, UK (Adrian Martin adrian.martin@noc.ac.uk 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 graham.allen@noc.ac.uk coordinating UK input with the University of East Anglia) | |
| 4 | Italy, UK (Kevin Horsburgh kevinh@noc.ac.uk coordinating UK input with CEFAS) | Germany, Japan, US | Canada, EC, France |
| 5 | Italy, US, UK (Roland Rogers rxr@noc.ac.uk 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 adrian.martin@noc.ac.uk coordinating on UK side) | Canada, EC, France, Germany, Japan |
| Sustainable funding | Germany | |
| G7-GOOS liaison | UK (Adrian Martin adrian.martin@noc.ac.uk 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 das@noc.ac.uk coordinating UK input with BAS and SAMS) | US, France |
| Underway Data (e.g. climate relevant data and CPR) | UK (Elizabeth Kent eck@noc.ac.uk coordinating UK input with the University of East Anglia) | Germany |
| Sensor development (particularly biological/biogeochemical sensors) | UK (Matt Mowlem matm@noc.ac.uk coordinating UK input with the University of Plymouth) | Japan |
| Augmented observatories (to allow deeper investigation of marine biology) | Italy | Germany, UK (Adrian Martin adrian.martin@noc.ac.uk coordinating UK input) |
| GLOSS sea level network | US | |
| Research vessels (including GO-SHIP) | Germany, France | |



Guidance for contacting us

- 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) in the first instance.
- Many thanks and we look forward to hearing your thoughts and vision for the G7 Initiative going forward.

