

EU – Canada – US



Building International Research Partnerships
in the
North Atlantic-Arctic System

A Collaborative International Research Initiative





Building International Research Partnerships

in the

North Atlantic-Arctic System

We hereby resolve “to advance our shared vision of an Atlantic Ocean that is healthy, resilient, safe, productive, understood and treasured so as to promote well-being, prosperity and security of present and future generations.”

Galway Statement on Atlantic Ocean Cooperation

Signed by the Governments of EU, Canada and U.S.

24 May 2013 Galway, Ireland



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Planning Workshop: Arlington, VA 14-16 April 2014





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Develop a framework for coordinated international and multi-disciplinary research to monitor, predict and adapt to future changes in the mutually shared North Atlantic – Arctic system, and its coastal, shelf and open-ocean resources.

Planning Workshop

14-16 April 2014

Arlington, VA





ICSU

International Council for Science

futureearth

research for global sustainability

WCRP



World Climate Research Programme

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020



Blue Growth: Unlocking the potential of Seas and Oceans

Identifier: H2020-BG-2015-1

Type: Call for Proposals

Deadline: Thu, 11 Jun 2015 17:00:00

Budget: 2.000.000,00 €




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- Trans-Atlantic Cooperation & Coordination of infrastructure and resources
- Cross-disciplinary nature of research:
Linking the physical, biogeochemical processes and stresses driving changes in ecosystem structure and function
- Engaging, inspiring and educating private stakeholders to understand how basic research can translate to socio-economic benefits





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What steps are necessary to deliver a predictive capacity for major risks and changes in North Atlantic-Arctic ecological, physical and biogeochemical systems to provide stewardship in support of its socio-economic health?

High priority topics:

How are climate and anthropogenic pressures changing:

- Distribution and population dynamics of fish stocks?
- Physics, biogeochemistry of the biological carbon pump?
- Bloom dynamics and implications for food webs?
- Feedbacks between meso-pelagic food webs and biogeochemistry?
- Fresh water input to the ocean and the Arctic cryosphere?

**A COLLABORATIVE INTERNATIONAL
RESEARCH PROGRAM ON THE
COUPLED NORTH ATLANTIC-ARCTIC SYSTEM**

Science Plan

Developed from a Workshop held in

Arlington, VA

14-16 April 2014

Editors: Eileen Hofmann, Mike St. John, Heather Benway

Workshop Organizing Committee

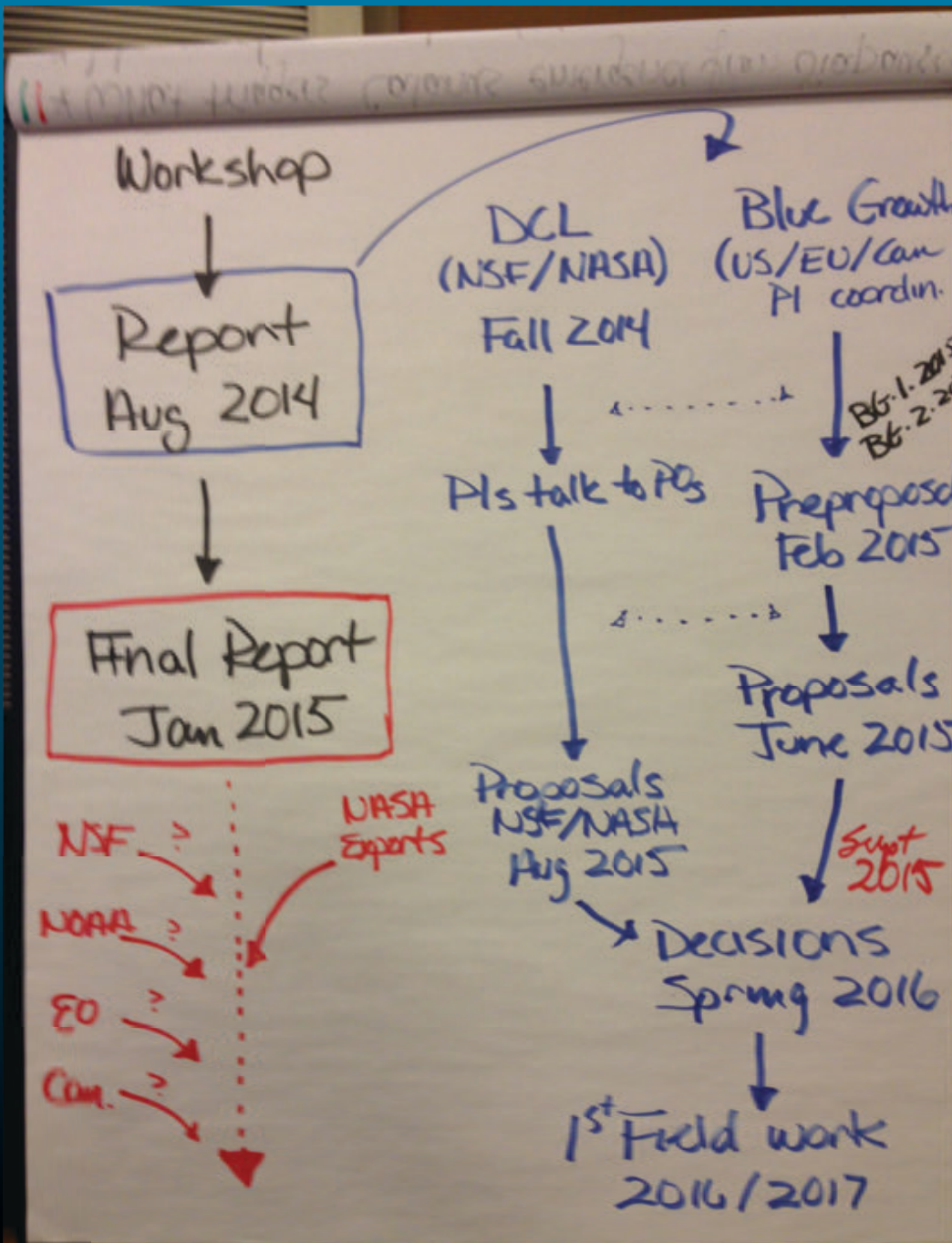
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Ocean Carbon & Biogeochemistry

*Studying marine biogeochemical cycles
and associated ecosystems
in the face of environmental change*

Workshop Report

<http://www.us-ocb.org/>



Timeline


Announcements
(Fall 2014)

Preproposals
(Feb 2015)

Proposals to
Agencies
(Summer 2015)

Decisions
(Spring 2016)

Field Work
(2016/2017)



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Relevance and challenge to US AMOC PIs

The causes and consequences of AMOC variability are mechanistically germane to potential shifts in fish stocks, ecosystem / food web dynamics, and the carbon pump (among other components of the coastal and open ocean Atlantic-Arctic system)

Opportunity – requires serious coordination with EU/Canadian groups and other disciplines