



**CANADIAN OCEAN SCIENCE NEWSLETTER**

**LE BULLETIN CANADIEN DES SCIENCES DE L'OCÉAN**

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**Contents**

OCEAN SCIENCE PROGRAMS..... 2  
 Argo’s millionth profile milestone ..... 2  
 MEETINGS ..... 3  
 2013 Joint Scientific Congress of the CMOS, CGU and CWRA..... 3  
 Congrès scientifique conjoint 2013 de la SCMO, de l’UGC et de l’ACRH ..... 3  
 1st International Ocean Colour Science Meeting, Darmstedt, Germany, 6-8 May 2013 ..... 4  
 PERSONNEL ..... 4  
 Michel Mitchell ..... 4  
 CANADIAN JOBS..... 5  
 Canada Research Chair (Tier II) in Ocean Technology Systems ..... 5  
 GENERAL ..... 5  
 Summer Oceanography Workshop - The Maury Project ..... 5

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## OCEAN SCIENCE PROGRAMS

### Argo's millionth profile milestone

*submitted by Denis Gilbert, Institut Maurice-Lamontagne, Pêches et Océans Canada, Mont-Joli, QC*

When the Argo profiling float program was endorsed by the international oceanographic community at the OceanObs' 1999 symposium in St-Rafaël, France, oceanography profoundly changed. With autonomous profiling instruments capable of reporting temperature and salinity data from the top 2000 m of the ocean in real time throughout the global ocean, and in conjunction with planned ocean modeling activities that were part of GODAE (Global Ocean Data Assimilation Experiment), a clear vision of the new science of ocean forecasting and operational oceanography emerged, based on methods akin to those used since the 1950s in weather forecasting. More importantly, the most revolutionary aspect of the Argo program resided in its open data policy. All Argo data would be publicly released in real time to anyone on Earth with access to the internet. In November 2007, the Argo program proudly celebrated the achievement of its original goal of having 3000 active profiling floats in the global ocean.

Another major milestone was achieved on November 4, 2012 when a float with WMOID (World Meteorological Organization Identifier) number 2901287, belonging to India, collected Argo's millionth temperature and salinity profile. In anticipation of this event, the international Argo project office produced an informative and attractive glossy brochure ([click](#), pdf). Several of the 31 nations contributing to the Argo program celebrated the millionth profile milestone with local activities, articles or press releases. In Canada, we wrote articles about this milestone in the CMOS Bulletin (**40**: 185-188) and on the Department of Fisheries and Oceans' website ([click](#)). On the media side of things, the millionth profile story was picked up by Halifax's Chronicle Herald newspaper as well as Radio-Canada's "Les Années Lumière", amongst others. Since 2001, Argo Canada launched 340 Argo floats, with about 100 still operating as shown by red symbols in the map below. The single Argo Canada float in the Arctic Ocean (WMOID 4901101), next to Novoya Zemlya, was launched on June 2, 2008 from CCGS Hudson some 300 km southeast of Halifax. It crossed the entire Atlantic Ocean before entering the Arctic! In future years,

## CNC-SCOR

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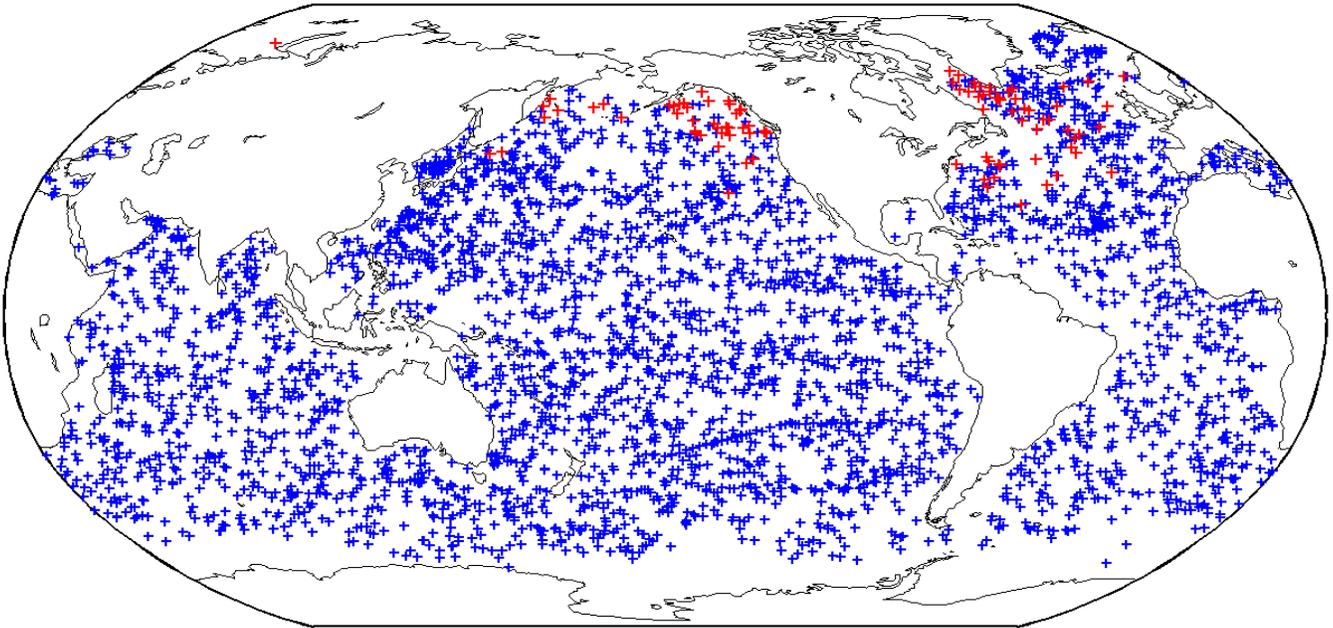
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The Canadian National Committee of the Scientific Committee for Oceanic Research (CNC-SCOR) fosters and facilitates international cooperation. It is a non-governmental body that reflects the multi-disciplinary nature of ocean science and marine technology.

Le Comité national canadien du Comité scientifique de la recherche océanographique (SCOR) favorise et facilite la coopération internationale. Il reflète la nature multidisciplinaire de la science océanique et de la technologie marine.

the presence of Argo Canada floats in the Arctic will likely be due to deliberate deployments rather than accidental ones as we explore practical and affordable ways of deploying Argo profiling floats in this ice-covered ocean that is undergoing rapid change in the context of global warming.



*Denis Gilbert is the National Director of Argo Canada. For more information on the Argo program please visit the Argo Canada website ([click](#)), and the International Argo Project Office and the Argo Information Center at <http://www.argo.net>.*

## MEETINGS

### 2013 Joint Scientific Congress of the CMOS, CGU and CWRA

The 1st Joint Scientific Congress of the CMOS, CGU and CWRA will take place from May 26th to 30th 2013 at Teacher's Credit Union Place in Saskatoon, Saskatchewan. The theme of this Congress is "Bridging Environmental Science, Policy and Resource Management". The scientific program will highlight research contributions under various themes including the Arctic, atmospheric science, oceanography, climate science, hydrology, and biogeoscience.

Preliminary programs, registration, hotel, and general information are posted on the 2013 Congress Web site at: <http://www.cmos.ca/congress2013/index.htm>.

At the time of the congress hotel vacancy will be limited due to other events occurring in Saskatoon. Participants are encouraged to book as early as possible!

### Congrès scientifique conjoint 2013 de la SCMO, de l'UGC et de l'ACRH

Le premier congrès scientifique conjoint de la SCMO, de l'UGC et de l'ACRH aura lieu du 26 au 30 mai, 2013, au Teacher's Credit Union Place à Saskatoon, en Saskatchewan. Le thème de ce congrès est: Intégration des

sciences de l'environnement, de la politique et de la gestion des ressources. Le congrès donnera l'occasion de présenter les connaissances et résultats scientifiques dans les domaines tels que l'Arctique, les sciences atmosphériques, l'océanographie, le climat, l'hydrologie et la biogéosciences.

Les renseignements préliminaires sur les programmes, l'inscription, les hôtels et les informations générales sont affichés sur le site Internet du congrès 2013 au <http://www.cmos.ca/congress2013/index.htm>.

Prenez note qu'au moment du congrès, la disponibilité des hôtels sera limitée en raison d'autres événements ayant lieu à Saskatoon. Il est recommandé de faire vos réservations le plus tôt possible.

### **1st International Ocean Colour Science Meeting, Darmstadt, Germany, 6-8 May 2013**

The draft meeting program ([click](#)) for the upcoming International Ocean Colour Science (IOCS) Meeting announced in the Dec 2012 Canadian Ocean Science Newsletter ([click](#)) is now available at <http://iocs.iocccg.org/program/meeting-program/>. The meeting will encompass:

- satellite instrument calibration
- in situ data and protocols for cal/val
- data infrastructure, formats and distribution
- algorithms and products
- applications, user services and tools
- international training opportunities

In addition, the Week-at-a-Glance schedule can be found [here](#). All details are included in the Second Announcement ([click](#)).

## **PERSONNEL**

### **Michel Mitchell**

After years of dedicated service to CNC/SCOR, Bob Wilson will be leaving the post of Secretary later this spring. CNC/SCOR is grateful to Bob for his relentless efforts that have been key to the continued success of the organization.



Michel Mitchell will be taking over from Bob as Secretary over the next few months. Michel retired from the Bedford Institute of Oceanography (BIO) in November 2011 after a 35-year career. For most of his career, his work focused on various aspects of ocean observation programs, mainly on Canada's Atlantic Coast and the Arctic, including the development of ocean technology and DFO's Atlantic Zone Monitoring Program (AZMP). He later assumed management roles and, after a brief period as Director of DFO's Oceanography and Climate Branch in Ottawa, he became Manager of the Ocean Sciences Division at BIO.

He is currently Scientist Emeritus in the Ocean and Ecosystem Sciences Division at the Bedford Institute of Oceanography in Dartmouth. He can be reached at: [michel.mitchell@dfo-mpo.gc.ca](mailto:michel.mitchell@dfo-mpo.gc.ca).

## CANADIAN JOBS

### Canada Research Chair (Tier II) in Ocean Technology Systems

Dalhousie University invites applications for a Tier II Canada Research Chair in the field of Ocean Technology Systems. The position is associated with Dalhousie's Canada Excellence Research Chair in Ocean Science and Technology and will be held in the Department of Oceanography of the Faculty of Science with potential for joint appointment with the Faculty of Engineering. The candidate will be expected to establish and maintain an active research program addressing new, practical approaches to at-sea sensing and measurement of physical, chemical, atmospheric and/or biological processes.

The candidate will have obtained a PhD degree within the last ten years, have post doctoral research experience, and a research track record that demonstrates particular research creativity and the potential to achieve international recognition in the next five to ten years. It is anticipated that the appointment will be tenure-stream and made at the Assistant or Associate Professor level. The successful candidate will be expected to teach undergraduate and graduate classes in ocean science and/or engineering, and to develop a vigorous and creative research program with external funding. The candidate will have opportunities to interact with a wide range of researchers at the University, nearby government laboratories and a broad range of companies working in the ocean technology sector.

Further details are here ([click](#), pdf) and applications should be submitted by March 31, 2013.

*Looking for work? Try the CMOS site ([click](#))*

## GENERAL

### Summer Oceanography Workshop - The Maury Project

The Canadian Meteorological and Oceanographic Society (CMOS) is inviting applications from Canadian teachers (K-12) to attend a physical oceanography education workshop held at the United States Naval Academy in Annapolis, Maryland from July 7 to 19, 2013.

This workshop is sponsored by the AMS, NOAA and the US Naval Academy. Expenses while on the workshops are covered by AMS/NOAA, CMOS and either the Royal Canadian Geographic Society (RCGS) or the Canadian National Committee/Scientific Committee on Oceanic Research (CNC/SCOR). In addition, travel subsidies for Canadian participants are also provided by CMOS and either RCGS or CNC/SCOR.

The deadline for applications for the Maury Project is 8 March 2013. Please forward this information to any eligible teacher that you think might be interested.

For more information on the workshops, including subsidies details and the application forms, visit <http://www.cmos.ca/ProjectMaury.html>. If you have questions, please contact Sheila Bourque at [education@cmos.ca](mailto:education@cmos.ca).

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Previous newsletters may be found on the CNC/SCOR web site.  
Les bulletins antérieurs se retrouvent sur le site web du CNC/SCOR.

Newsletter #70 will be distributed on *15 April* 2013. Please send contributions to Michel Mitchell, [michel.mitchell@dfo-mpo.gc.ca](mailto:michel.mitchell@dfo-mpo.gc.ca)  
Bulletin #70 sera distribué le *15 avril* 2013. Veuillez faire parvenir vos contributions à [michel.mitchell@dfo-mpo.gc.ca](mailto:michel.mitchell@dfo-mpo.gc.ca)

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