7th Euro-Argo Science Meeting

22-23 October 2019

Final agenda

Location: Divani Palace Acropolis Hotel, Athens, Greece

Aims of the workshop

- To bring together users of Argo data and to provide an opportunity for high-level science interactions in link with Argo
- To stimulate research activities using Argo data, especially in combination with other data types and in model studies
- To highlight the new fields of research activities and applications allowed by the extensions of the core Argo programme to biogeochemistry, greater depths, and specific regions of interest (marginal seas, boundary currents, high latitudes)
- To strengthen links with industry and foster Research and Development activities related to Argo
- To allow users to widen their experience of the Euro-Argo community, welcome young scientists into that community, encourage their use of Argo data and provide an opportunity to participate in discussions of how Argo should evolve within Europe and globally.

Organising Committee

Scientific Programme Committee

The **workshop conveners** include the following people:

- Fabrizio D'ORTENZIO (LOV, France)
- Claire GOURCUFF (Euro-Argo ERIC office, France)
- Dimitris KASSIS (HCMR, Greece)
- Birgit KLEIN (BSH, Germany)
- Guillaume MAZE (Ifremer, France)
- Giulio NOTARSTEFANO (OGS, Italy)
- Grigor OBOLENSKY (Euro-Argo ERIC office, France)
- Diarmuid O'CONCHUBHAIR (MI, Ireland)
- Laura TUOMI (FMI, Finland)
- Pedro VÉLEZ (IEO, Spain)

Practical organisation – local arrangements

For practical information please contact Francine LOUBRIEU at *euroargo@ifremer.fr.*

WebSite

https://www.euro-argo.eu/News-Meetings/Meetings/Euro-Argo-Users-Meetings/7th-Euro-Argo-Science-Meeting

Session Overview and Detailed Agenda

Tuesday 22 October 2019		
08:30	Registration in the Hall of the Conference Room	
OPENING SESSION		
09:00	Welcome	Jean-Marie FLAUD *MESRI - France*
09:05	European Research Infrastructures in the framework of EOOS	Georges PETIHAKIS *HCMR - Greece*
09:20	Main messages from OceanObs'19	Sabrina SPEICH *Laboratoire de Météorologie Dynamique, ENS - France*
09:35	What Euro-Argo has done and future plans	Sylvie POULIQUEN *Euro-Argo ERIC - France*
Session 1: MESO TO LARGE SCALE OCEAN STRUCTURE AND VARIABILITY ***Chair: Birgit KLEIN, BSH***		
09:50	**Towards a New Phase of the Argo Program**	**Keynote speaker:** **Toshio SUGA** ***JAMSTEC/Tohoku University - Japan***
10:10	1. Interior water-mass variability in the southern-hemisphere oceans during the last decade	Esther PORTELA RODRIGUEZ *LOPS/CNRS - France*
10:30	2. High resolution Argo profiling in a Western Boundary Current	Tamaryn MORRIS *South African Weather Service – South Africa*
11:00	**Poster session** **Coffee Break**	**20 min**
11:20	3. Interannual impact of extreme wintertime weather on the North Atlantic subtropical stratification	Kenneth E. LEE *Ifremer/LOPS - FRANCE*
11:40	4. Scotia Sea pathways as deduced from Argo floats	Anna OLIVÉ ABELLÓ *CSIC - Spain*
12:00	5. A Deep Coherent Eddy in the northern Norwegian Sea observed with Argo floats.	Henrik SØILAND *IMR - Norway*
12:20	6. Salinity - Oxygen Indices for Climate variability in the South Atlantic	Cristian FLORINDO-LOPEZ *NOC - UK*
12:40	**Lunch break**	**60 min**

Session 2: MARGINAL SEAS WITH A FOCUS ON THE MEDITERRANEAN & BLACK SEAS		
Chair: Giulio NORTASTEFANO, OGS		
13:40	MedArgo: the regional Argo network for the Mediterranean and Black seas	Keynote speaker: Pierre-Marie POULAIN *OGS/CMRE - Italy*
14:00	7. A study of the Tyrrhenian Intermediate Water (TIW) using Argo floats, XBT and model data	Ernesto NAPOLITANO *ENEA - Italy*
14:20	8. Local Re-analysis of the Cyprus Basin: assimilating gliders and profiling floats to reproduce surface drifter tracks	Daniel HAYES *Cyprus Subsea Consulting and Services C.S.C.S.- Cyprus*
14:40	9. Argo floats - an important element of oceanographic observations in the Southern Baltic Sea.	Waldemar WALCZOWSKI *IOPAN - Poland*
15:00	10. Argo floats as a part of the Baltic Sea monitoring	Laura TUOMI *FMI - Finland*
15:20	Poster session Coffee Break	60 min
16:20	11. Evaluation of the first baroclinic Rossby radius in the Black Sea using reanalysis data and in-situ Argo profiles	Greta GEORGIEVA *Sofia University "St.Kliment Ohridski" - Bulgaria*
16:40	12. Investigating the impacts of a strong Medicane on the upper layers of the Eastern Mediterranean Sea	Dimitris KASSIS *HCMR - Greece*
17:00	13. Levantine Intermediate and Levantine Deep Water Formation: An Argo float study from 2001 to 2017	Elisabeth KUBIN *OGS - Italy*
17:20	14. Hydrographic changes and Argo activities in the Nordic Seas and Arctic	Kjell Arne MORK *IMR - Norway*
17:40	Poster session Cocktail in the Hall of the Conference Room	

Wednesday 23 October 2019		
Session 3: EXTENSION OF ARGO TO BIOGEOCHEMISTRY *Chair: Emanuele ORGANELLI, LOV/CNRS*		
09:00	**The future of BGC-Argo**	Keynote speaker: **Ken JOHNSON** *MBARI - USA*
09:20	15. Atmospheric and in-water radiative transfer model validation with BGC-Argo float data in the Mediterranean Sea	Elena TERZIC *OGS - Italy*
09:40	16. How multivariate BGC-Argo data assimilation can improve the biogeochemical component of the CMEMS Mediterranean operational forecast system	Gianpiero COSSARINI *OGS - Italy*
10:00	17. Dynamics of deep phytoplankton biomass maxima in the global ocean: a Biogeochemical Argo floats approach	Fabrizio D'ORTENZIO *LOV/CNRS – France*
10:20	**Poster session** **Coffee Break in the Hall of the Conference Room**	**20 min**
Session 4: NEW DATASETS, ANALYSIS METHODS AND SERVICES TO USERS *Chair: Diarmuid O' CONCHUBHAIR, Marine Institute*		
10:40	**The BIOPTIMOD Project: Integration Of Novel Satellite And BGC-Argo Optical Observations In CMEMS Biogeochemical Models**	Keynote speaker: **Paolo LAZZARI** *OGS - Italy*
11:00	18. The need for ocean data in near real time in ocean and costal management	Stig FALK-PETERSEN *Akvaplan-niva - Norway*
11:20	19. Delayed Mode Quality Control of Argo floats in the Nordic Seas	Ingrid M. ANGEL-BENAVIDES *BSH - Germany*
11:40	20. The BGC-Argo floats: a new tool to validate ocean biogeochemical models	Alexandre MIGNOT *Mercator Ocean International - France*
12:00	21. Multi-scale products from Argo float deployments during regional cruises	Ignasi VALLES CASANOVA *Marine Science Institute of Barcelona - Spain*
12:20	**Lunch break**	**60 min**

Session 5: TECHNOLOGICAL INNOVATIONS: PRESENT & FUTURE *Chair: Guillaume MAZE, Ifremer*		
13:20	**Technological innovations: challenging profiling floats capabilities**	Keynote speaker: **Xavier ANDRE** ***Ifremer - France***
13:40	22. Assessment of long-term salinity stability of the RBRargo CTD	Mark HALVERSON *RBR Ltd - Canada*
14:00	23. Satellite services for ocean observation programs	Solène ROUTABOUL *CLS - France*
14:20	**Poster session** **Coffee Break in the Hall of the Conference Room**	**60 min**
15:20	24. Past and new technological developments at LOV for core and new BGC applications	Edouard LEYMARIE *LOV/CNRS - France*
15:40	25. NKE recent float evolutions	Jérôme SAGOT *NKE Instrumentation - France*
16:00	26. Observing the ocean with Deep APEX floats	Brian KING *NOC - UK*
16:20	**Best poster and best talk: AWARDS**	

Posters

T I T L E	A U T H O R S
Session 1: MESO TO LARGE SCALE OCEAN STRUCTURE AND VARIABILITY	
1. Temporal variability of the Nordic Seas intermediate and deep water properties based on Argo floats data in 2008-2017 period.	Małgorzata MERCHEL *IOPAN - Poland*
2. Rekindling the debate on the far reaching European continental slope current and its influence on subpolar northeast North Atlantic dynamics – Argo and model output data perspectives	Angelina SMILENOVA *NUIG - Ireland*
3. Interannual variability of upper ocean water masses as inferred from Argo Array	Nicolas KOLDOZIEJCZYK *University of Brest/LOPS - France*
4. North-Atlantic Ocean Subtropical Gyre: New observations and mechanisms of low-frequency Variability	Guillaume MAZE *Ifremer/LOPS - France*
Session 2: MARGINAL SEAS WITH A FOCUS ON THE MEDITERRANEAN & BLACK SEAS	
5. Climate change and regional ocean water mass disappearance in the Black Sea	Boriana CHTIRKOVA *Sofia University - Bulgaria*
6. A neural network approach to estimate water-column nutrient concentrations and carbonate system parameters in the Mediterranean Sea: CANYON-MED	Marine FOURRIER *LOV/CNRS - France*
7. Long-term variability of the Black Sea cold intermediate layer properties	Nadezhda VALCHEVA *IOBAS - Bulgaria*
8. MOCCA project	Romain CANCOUËT *Euro-Argo ERIC - France*
9. Argo missions and synergies with other platforms in marginal seas: The north Aegean and south Ionian test cases	Dimitris KASSIS *HCMR - Greece*
10. *Synechococcus* in the Black Sea – an alternative explanation of the deep red fluorescence signal	Nadezhda VALCHEVA *IOBAS - Bulgaria*
11. High-frequency variability of temperature and salinity profiles in the Mediterranean Sea as revealed by Argo floats	Pierre-Marie POULAIN *OGS/CMRE - Italy*
12. Adapting Argo floats to the Baltic Sea: Lessons learned	Simo SIIRIÄ *FMI - Finland*

Session 3: EXTENSION OF ARGO TO BIOGEOCHEMISTRY	
13. Is it possible to detect *Emiliania huxleyi* blooms with Biogeochemical-Argo floats?	Louis TERRATS *LOV/CNRS - France*
Session 4: NEW DATASETS, ANALYSIS METHODS AND SERVICES TO USERS	
14. OSnet: Ocean State Neural Network	Sean TOKUNAGA *Ifremer/LOPS - France*
15. Development of ice sensing algorithms for Argo float deployments in polar regions	Ingrid M. ANGEL-BENAVIDES *BSH - Germany*
Live demo 16. JCOMMOPS 3D visualisation tool and monitoring system	Anthonin LIZE *JCOMMOPS - France*
Session 5: TECHNOLOGICAL INNOVATIONS: PRESENT & FUTURE	
17. Advancing hyperspectral radiometric observations on ARGO floats	Ahlem JEMAI *Univ. Oldenburg -Germany*
18. Towards a new phase for Euro-Argo Programme: Euro-Argo RISE Project	Estérine EVRARD *Euro-Argo ERIC - France*
Live demo 19. Presentation of the Euro-Argo monitoring tool website developed during the MOCCA project	Romain CANCOUËT *Euro-Argo ERIC - France*
20. Impact of waves in Arvor floats behavior (GPS positioning, Iridium transmission and surface grounding)	Andrea GARCIA-JUAN *Euro-Argo ERIC - France*
21. Compact Light-weight camera system for ARGO extension applications.	Manos PETTAS *HCMR - Greece*
22. Deep-Arvor profiling float	Xavier ANDRE *Ifremer - France*

Instructions to speakers and participants

Access to Divani Palace Acropolis Hotel is restricted to people pre-registered using the online workshop registration system.

Registration: The registration desk will be open at **08:30 am** on Tuesday 22 October 2019. You will be issued with **the official workshop badge** valid for the duration of the event.

Our meeting takes place in the Aristotelis plenary room.

POSTERS: Posters will be displayed **in the Aristotelis poster room**

ORIENTATION: PORTRAIT (AO format max)

Height: 150cm

Width: 80cm

ORAL PRESENTATIONS: Bring your visual supports on a USB stick and make sure that your presentation will be uploaded ahead of your session.

Votes: Participants are invited to vote for the best talk and the best poster. Ballot papers will be distributed at the registration desk and winners will be awarded at the end of the second day.

Coffee breaks and lunches offered every day.

Phone point during the meeting for urgent messages:

+33 (0)6 73 54 72 76 (Euro-Argo ERIC secretary)