

First Underwater Vision Profiler user meeting and MOPGA-TAD midterm symposium

at the Laboratoire d'Océanographie de Villefranche, Villefranche-sur-Mer, France and online

15th & 16th September 2022

supported by AANCHOR CSA via I/ITAPINA



**BUILDING AN ALL ATLANTIC
OCEAN COMMUNITY**
Implementing the Belém Statement

and



Please register for day 1 and day 2 separately with these links for online participation:

Day 1: https://cnrs.zoom.us/webinar/register/WN_OIwBZlsBSuuwbqOjHky1fw

Day 2: https://cnrs.zoom.us/webinar/register/WN_X3G95o8tSKW18VOsJkqpWQ

Day 1, Thursday, 15th September 2022

Times are Central European Summer Time, CEST = UTC/GMT +2

9:00 - 9:10: Rainer Kiko - Welcome and general info

9:10 - 9:30: Sofia Cordeiro, Florence Coroner, Rainer Kiko - AANCHOR - AA-MARI.Net - I/ITAPINA

9:30 - 11:00: what's going on - Hawaii, China, Africa, Europe

9:30 - 9:45: University of Hawaii, USA - Reece James (online)

9:45 - 10:15: LOV, France - Marc Picheral - LOV/PIQv operational services available to the UVP user community

10:15 - 10:30: LOV, France - Camille Catalano: UVP development activities at LOV

10:30 - 10:45: Jiaozhou Bay Marine Ecosystem Research Station, China - Xiaoxia Sun (online)

10:45 - 11:00: Nelson Mandela University, South Africa - Margaux Noyon

11:00 - 11:15: Break

11:00 - 13:00: what's going on - Europe:

11:15 - 11:45: France, LOV - Rainer Kiko - MOPGA-TAD midterm: Establishing sustained zooplankton and particle observations to study Tropical Atlantic Deoxygenation

11:45 - 12:00: France, LOV - Alberto Baudena - MOPGA-TAD midterm: 5 months in the lifetime of an eddy observed with a UVP6 on an ARGO float

12:00 - 12:15: France, LOV - Hervé Claustre - Robotic Exploration of plankton-driven Fluxes in the marine twilight zone - REFINE (online)

12:15 - 12:30: France, LOV - Thelma Panaiotis - Deployment of a UVP6 on a glider

12:30 - 12:45: France, LOV - Lionel Guidi - Assessing marine biogenic matter Production, Export and Remineralization: from the surface to the dark Ocean - APERO (online)

12:45 - 12:55: Discussion

12:55: Group picture

13:00 - 14:00: Lunch break

14:00 - 15:30: what's going on - US East Coast, Europe

14:00 - 14:15: U. of Vermont, USA - Jason Stockwell - UVP deployments in Lake Champlain

14:15 - 14:30: GEOMAR, Germany - Helena Hauss - Comparison of UVP5, UVP6 and other imaging sensor deployments in two Norwegian Fjords

14:30 - 14:45: Woods Hole Oceanographic Institution, USA - Elena Ceballos - Use of UVPs at WHOI - part 1

14:45 - 15:00: Woods Hole Oceanographic Institution, USA - Clarissa Karthäuser - Use of UVPs at WHOI - part 2

15:00 - 15:15: U. Maine, USA - Lee Karp Boss - NAAMES and GO-Ship (online)

15:15 - 15:30: Discussion

15:30 - 16:00: Break

16:00 - 17:30: what's going on - US East Coast, Canada, US West Coast, Europe

16:00 - 16:15: U. South Carolina, USA - Alexander Barth

16:15 - 16:30: National Oceanographic Center, Southampton, UK - Marika Takeuchi

16:30 - 16:45: Memorial University Newfoundland, Canada - Maxime Geoffroy - Linking hydroacoustics with UVP imagery to study the Arctic pelagic ecosystem (online)

16:45 - 17:00: U. of Alaska, USA - Stephanie O'Daly - (online)

17:00 - 17:15: UC Santa Barbara, USA - David Siegel - First results from UVP deployments during NASA's EXPORTS experiment (online)

17:15 - 18:00: Discussion

Day 2, Friday, 16th September 2022

9:00 - 9:15: Jerome Coindat (Hydroptic) - UVP sales and future developments

9:15 - 9:30: Discussion w. Hydroptic

Image classification:

9:30 - 9:45: Florian Ricour (LOV) - Embedded classification algorithm for the UVP6

9:55 - 10:00: Emilia Trudnoswska (IOPAN, Poland) - Appearance – how morphological traits of marine snow and zooplankton shed a new light on ecological observations

10:00 - 10:15: Martin Schröder (Kiel University, Germany) - MorphoCluster

10:15 - 10:30: Lars Schmarje (Kiel University, Germany, online) - Fuzzy overclustering

10:30 - 10:45: General discussion

10:45 - 11:00: Break

Ecopart and Ecotaxa dataset collection and evaluation

11:00 - 11:15: Lars Stemmann (LOV) - Generation of a global UVP image dataset

11:15 - 11:30: Shreya Mehta (Physical Research Laboratory, India, online) - Trichodesmium distribution - a study based on a large UVP data set

11:30 - 11:45: Rainer Kiko (GEOMAR/LOV) - The UVP5 particle dataset

11:45 - 12:00: Kelsey Bisson (Oregon State University, USA, online) - Uncertainties of particle size measurements of the UVP5

12:00 - 12:15: Anna Sommer (U. of East Anglia, UK, online) - Testing the reconstruction of modeled POC

12:15 - 12:30: Daniel Clements (UCLA, USA, online) - Global reconstruction of the particle size spectrum

12:30 - 12:45: Mathilde Dugenne (LOV) - Generating PSSdb - The pelagic size structure database

12:45 - 13:00: General discussion on dataset collection and evaluation

13:00 - 14:00: Lunch break

14:00 - 15:00: Community development of data processing tools

14:00 - 14:15: Jean-Olivier Irisson (Ecotaxa API and other software tools)

14:15 - 14:30: Alexander Barth - R tools to query Ecotaxa

14:30 - 15:00: Processing tools discussion

15:00 - 15:45: Towards operationality - development of the UVP user network and deployment planning for the next 15 years

Discussion led by Lars Stemman to outline a white paper that aims to develop an integrated science plan. Topics: Further development of data sharing models, image and data processing and streaming, deployment planning, open scientific problems and how to solve them

15:45 - 16:15: Break

16:15 - 18:00: Open discussion



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