

SEVENTH FRAMEWORK PROGRAMME THEME 7 Environment

Collaborative project (Large-scale Integrating Project)

Project no: 246 933

Project Acronym: EURO-BASIN

Project title: European Basin-scale Analysis, Synthesis and Integration

Deliverable 2.5 Cruise campaign 2012 data delivery to WP1

Contributors: Webjoern Melle (IMR), Linda Holste (UHAM) & cruise principle investigators

Due date of deliverable: June 2013

Actual submission date: Dec 2013

Organisation name of the lead contractor of this deliverable: IMR

Start date of project: 31.12.2010 Duration: 48 months

Project Coordinator: Michael St John, DTU Aqua

Project co-funded by the European Commission within the Seventh Framework Programme,
 Theme 6 Environment

Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission)	
RE	Restricted to a group specified by the consortium (including the Commission)	
CO	Confidential, only for members of the consortium (including the Commission)	

Deliverable 2.5 Cruise campaign 2012 data delivery to WP1

is a contribution T2.2 Experimental work at sea: Cruise observations will focus on the key processes involved in mediating particle export using state of the art technologies including direct observations of sinking particle characteristics using the seacorer and marine snowcatcher and drifting sediment traps calibrated using ²³⁴Th derived fluxes to link plankton community composition and size structure, grazing, and air sea CO₂ fluxes to particle aggregation, decomposition, sinking and the downward flux of organic carbon from the upper ocean in the different habitats of the North Atlantic.

Executive Summary:

The deliverable is proof of data archiving, and free access to primary research data in support of the EU initiatives stated below.

Relevance to the project & potential policy impact:

The deliverable has no direct impact on Marine Policy, but supports Europe 2020 Strategy¹ flagship initiatives “Digital Agenda for Europe²” and “Innovation Union³” objectives on improving researchers Open Science (Open data and Open Access to research) practices as means to boost innovation and Blue Growth⁴. Open Data and Open Access to Research in this project directly supports Responsible Research & Innovation policy⁵ pillar “Share results to advance”.

Access to Data:

Data from the 2012 field campaigns is submitted to www.pangaea.de with unrestricted access. Data from the 2013 campaigns will be added in early 2014 for metadata, mid-2014 for full data archive, to allow for processing.

The following datasets are archived and freely available (2013 campaigns to follow):

Bode, Antonio (2013): Biomasses and stable isotopes (carbon, nitrogen) in various plankton size fractions from the upper 200 m of the water column along a zonal transect at approximately 24°N.

doi:[10.1594/PANGAEA.816451](https://doi.org/10.1594/PANGAEA.816451),

Supplement to: Mompeán, Carmen; Bode, Antonio; V.M., Benítez-Barríos; J. Francisco, Domínguez-Yanes; Escánez, José; Eugenio, Fraile-Nuez (2013): Spatial patterns of plankton biomass and stable isotopes reflect the influence of the nitrogen-fixer *Trichodesmium* along the subtropical North Atlantic. *Journal of Plankton Research*, **35(3)**, 513-525, doi:[10.1093/plankt/fbt011](https://doi.org/10.1093/plankt/fbt011)

Hänselmann, Kristin; Walter, Bettina (2013): Microzooplankton grazing experiment during Maria S. Merian cruise MSM26. *Institut für Hydrobiologie und Fischereiwissenschaften, Universität Hamburg*,

doi:[10.1594/PANGAEA.819256](https://doi.org/10.1594/PANGAEA.819256)

Holste, Linda (2013): Zooplankton biomass data METEOR cruise M87/1. Unpublished dataset #819544,

[10.1594/PANGAEA.819544](https://doi.org/10.1594/PANGAEA.819544)

Huse, Geir (2013): Spatially explicit estimates of length and biomass of *Clupea harengus* (Norwegian spring spawning herring) from acoustic and trawl surveys in the North-East Atlantic in May 2012. *Institute of Marine Research, Bergen*, Unpublished dataset #819799, [10.1594/PANGAEA.819799](https://doi.org/10.1594/PANGAEA.819799)

Möller, Klas Ove; Reichelt, Theresa; Holste, Linda (2013): Physical oceanography during METEOR cruise M87/1 (Deep Convection Cruise). *Institut für Hydrobiologie und Fischereiwissenschaften, Universität Hamburg*, doi:[10.1594/PANGAEA.812592](https://doi.org/10.1594/PANGAEA.812592)

¹ <http://ec.europa.eu/europe2020/europe-2020-in-a-nutshell/>

² <http://ec.europa.eu/digital-agenda/>

³ http://ec.europa.eu/research/innovation-union/index_en.cfm

⁴ http://europa.eu/rapid/press-release_IP-12-790_en.htm

⁵ http://ec.europa.eu/research/science-society/document_library/pdf_06/responsible-research-and-innovation-leaflet_en.pdf