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Coordinator's corner

Where do we stand?

As 2017 comes to close, I would like to briefly look back on another successful phase of the EU CERES project. In the 6 months since my last message, I'm happy to report that CERES is making strong progress in its research on climate change impacts on Europe's fisheries and aquaculture sectors. To date, CERES has conducted more than 50 stakeholder engagement events and activities (big to small, EU to regional level). The dialog and feedback received at these events from the fisheries and aquaculture industry and policymakers is helping to ensure that we provide relevant "climate-ready" solutions in support of sustainable Blue Growth.

Most recently, CERES unveiled projections of what ocean temperatures and biogeochemistry will be in 50 years throughout the NE Atlantic and Mediterranean regions. These and other "physical" projections (for the Baltic, Barents and Norwegian Seas as well as freshwater habitats) will be used in biological models to estimate future, climate-driven changes in the productivity of fish and shellfish throughout Europe. Our 25+ CERES "Storylines" listed on our website outline our region- and sector-specific activities. Please look for updates as our work progresses.

Some other highlights include the participation in (and co-sponsorship of) key scientific workshops. One workshop, co-chaired by CERES and its sister project ClimeFish, addressed a call for advice by the European Commission regarding recent shifts in fish stocks. A second workshop co-sponsored by ICES and PICES "jump-started" our plans to deliver climate vulnerability assessments of European fisheries and aquaculture sectors. These, along with chairing sessions in September at the ICES Annual Science Conference and in October at Aquaculture Europe, help demonstrate the maturity of our CERES science. In December, CERES provided its first policy review in Brussels to several EU Directorates-General (Maritime Affairs and Fisheries, Environment, and Climate Action).

I congratulate our 26 CERES partners from industry, national laboratories and academia on a successful 2017. If you work within the fisheries or aquaculture sector or if you are a policymaker for these industries, please register in our website's stakeholder database. Climate change will pose both risks and opportunities. This stakeholder database is your direct route to providing comments, following our updates and shaping our CERES activities. Put us to work for you.

Yours sincerely,

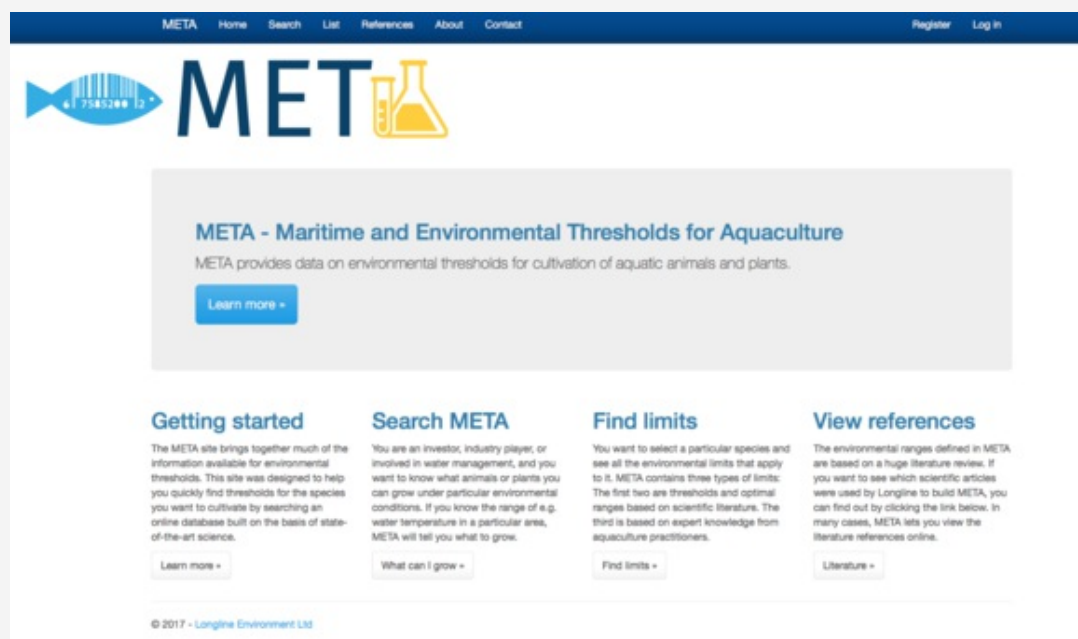
Prof. Myron Peck (project coordinator)

Get involved into CERES - get deeper insights

Contact us!

Highlight

CERES database on environmental thresholds for aquaculture



The [META tool](#) developed and hosted by our industry partner [Longline Environment](#) brings together much of the information available for environmental thresholds. This site was designed to help you quickly find thresholds for the species you want to cultivate by searching an online database built on the basis of state-of-the-art science.

Featured article

CERES meets Dutch industry and policy

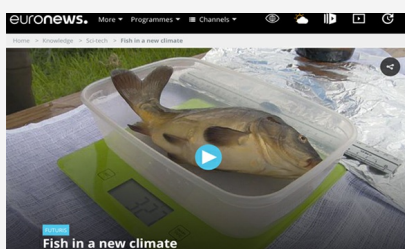


Two workshops on the fishery and aquaculture sector's perspectives on future North Sea scenarios with climate change were held by Dutch CERES partners (Wageningen Economic Research/ Wageningen Marine Research) - a good example for CERES stakeholder involvement. Not only policy members from the Netherlands Environmental Assessment Agency, the Ministry of Economic Affairs, the Ministry of Infrastructure and the Environment supported the development of future socio-economical scenarios, also Mussel and Oyster producers, the Dutch Association for Mussel production and members of the Dutch Cutter Fisheries Association, respectively.

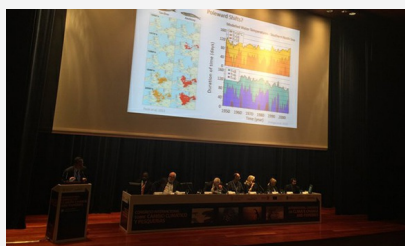
CERES in action



The 18 months' status of CERES was successfully **reviewed by the European Commission**. Another 30 successful months to come!



CERES was the topic of several local and international **television campaigns**, e.g. in a FUTURIS episode on [euronews](#) or in "Gent de la Mar", a Balearic TV show.



CERES was presented in several europe-wide and local **policy events**, e.g. at the [Conexmar FAO Congress](#) in Vigo.



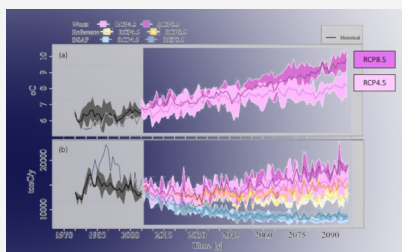
CERES **science** was presented on several conferences, e.g. the ICES [annual science conference](#) in Fort Lauderdale, USA and the [Aquaculture Europe](#) in Dubrovnik.



CERES co-organised the **ICES-PICES Workshop** on Regional Climate Change Vulnerability Assessment for the large marine ecosystem in the northern hemisphere ([WKSICCM-CVA](#)).



A **variety of experiments** on finfish and shellfish were conducted to fill knowledge gaps, e.g. impact of environmental factors on tuna larvae.



Model projections of hydrography, nutrients and primary production etc. of European seas are nearly complete.

[More activities](#)

Upcoming events

CERES stakeholder workshop on models and scenarios for northern waters fisheries
(6th of March 2018 - Tromsø, Norway)

Climefish/CERES stakeholder workshop on North Atlantic fisheries
(6th of March 2018 - Copenhagen, Denmark)

Annual project meeting with participation of reference user group and research advisory board in south of Portugal
(13th-15th of March 2018)

Scientific results

Here are some examples of our recent CERES publications.
For a comprehensive list [visit our website](#)



Fisheries

Pinnegar et al (2017)
MCCIP Science Review [DOI 10.14465/2017.arc10.007-fis](https://doi.org/10.14465/2017.arc10.007-fis)



Social innovation – A future pathway for Blue growth?

Soma et al (2017)
Marine Policy doi.org/10.1016/j.marpol.2017.10.008



North Atlantic oscillation affects the physical condition of migrating bullet tuna *Auxis rochei* (Risso, 1810) from the Western Mediterranean Sea

Muñoz-Expósito et al (2017)

Fisheries Research DOI [10.1016/j.fishres.2017.05.016](https://doi.org/10.1016/j.fishres.2017.05.016)



Combining sale records of landings and fishers knowledge for predicting métiers in a small-scale, multi-gear, multispecies fishery

Palmer et al (2017)

Fisheries Research 195: 59-70 DOI [10.1016/j.fishres.2017.07.001](https://doi.org/10.1016/j.fishres.2017.07.001)



"And DPSIR begat DAPSI(W)R(M)!" – A unifying framework for marine environmental management

Elliott et al (2017)

Marine Pollution Bulletin DOI [10.1016/j.marpolbul.2017.03.049](https://doi.org/10.1016/j.marpolbul.2017.03.049)



Designing a global assessment of climate change on inland waters: knowns and needs

Paukert et al (2017)

Reviews in Fish Biology and Fisheries DOI [10.1007/s11160-017-9477-y](https://doi.org/10.1007/s11160-017-9477-y)



Consequences of stinging plankton blooms on finfish mariculture in the Mediterranean Sea



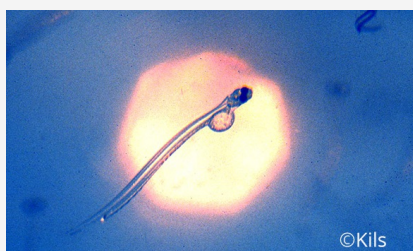
From traits to life-history strategies:
Deconstructing fish community
composition across European seas

Pecuchet et al (2017)
Global Ecology and Biogeography DOI [10.1111/geb.12587](https://doi.org/10.1111/geb.12587)



Evaluation of *Cyanea capillata* sting
management protocols using ex vivo and
in vitro envenomation models

Doyle et al (2017)
Toxins doi:[10.3390/toxins9050149](https://doi.org/10.3390/toxins9050149)



Effects of warming rate, acclimation
temperature and ontogeny on the critical
thermal maximum of temperate marine
fish larvae

Moyano et al (2017)
PlosOne DOI [10.1371/journal.pone.0179928](https://doi.org/10.1371/journal.pone.0179928)

Did you know...

... that an interesting EU project was recently funded?



PANDORA (coordinated by the CERES partner DTU in Copenhagen) will integrate a new network of industry, researchers and advisors into existing mechanisms for Regional Fisheries Management Organisations. More biological and economic knowledge will be incorporated into stock assessments for a more robust management. Industry-led data collection will be complemented with training programmes, new biological insights and co-creation of models. The project's legacy will be Pandora's Box of Tools for fishers, researchers and managers of commercially important fish stocks. It will include the tools for the next generation of ecosystem-based fisheries management, and promote the sustainable Blue Growth of Europe's fisheries sector.

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funding

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coordinated by Hamburg University, Prof. Peck

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