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Intergovernmental
Oceanographic
Commission

IOC Ocean Science Section

(Functions A and C)

Capacity Development Activities

Harmful Algae:

- Organized annually, e-learning in OT + practical identification
- Include an exam qualifying for the 'IOC Certificate of Proficiency in Identification of Harmful Marine Microalgae'
- Stable demand from MS institutions for training on harmful algae
- Implementation of combined OT on-line and face-to-face courses works well
- Activity is 100% demand driven and primarily user funded
- +30 years partnership with University of Copenhagen, Denmark
- Series of in-country training courses in collaboration with FAO, IAEA and IOC regional CD activities in WESTAPC and IOCARIBE.
- In-country training on demand and MS funded
- Strong position of the IOC in HAB CD



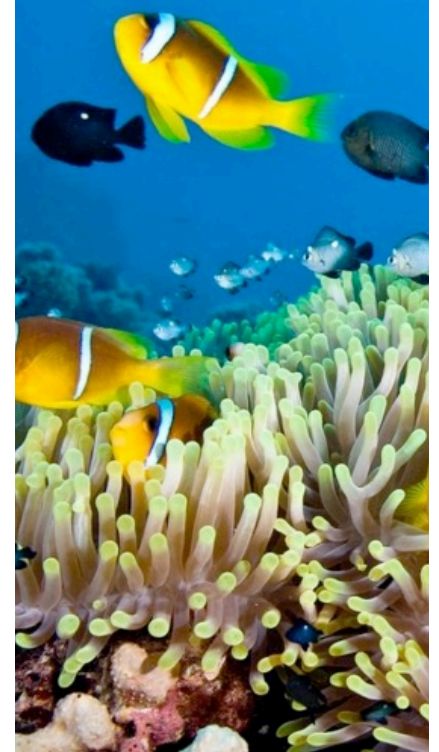
The International Phytoplankton Intercomparison (IPI)

- IPI is a proficiency testing scheme for Phytoplankton analysts. IPI working towards accreditation as a Proficiency testing provider under ISO 17043 and ISO13528.
- Runs every year from May to December with 70-80 participating laboratories.
- IPI is being offered by the IOC Science and Communication Centre in collaboration with The Canary Islands Harmful Algal Bloom Observatory at the University of Las Palmas de Gran Canaria, Spain and the Marine Institute, Ireland.



Ocean acidification

- A topic of continuous capacity development demand is the field of ocean acidification.
- Successful implementation of an OTGA course in February 2022 focusing on the Pacific Islands with more than 130 participants (60 % female attendees).
- It is envisaged to repeat this exercise in Africa and one more region over the next two years. The courses on ocean acidification attracts strong interest and has successfully positioned IOC as a provider of CD in the field.
- The IOC Secretariat is developing new course content and translating part of the course material into French and English.
- Continuously conducting on-line trainings to advance the capacity of Member States to report towards SDG 14.3.1
- **Ocean Acidification Capacity Development Workshop, 15-17 October 2024 to improve our capacity development activities**



Deoxygenation

- Deoxygenation was the focus of one IOC summer school in September 2019
- A new edition is organized in November 2023 now as part of the Decade Programme GOOD/OARS
- The IOC working group organizes monthly webinars featuring each time a junior and a senior scientists. (on average more than 100 participants coming from more than 60 countries) .

Blue Carbon

- Together with CI development of an online (OTGA) course).
- Regular knowledge exchange session on BC science and implementation.



2. What are lacking actions: Would like to see the C2C on Science for Sustainable Fisheries in Iceland more linked or integrated with OTGA. This is on the table in the review of the C2C ongoing. There is also room for improvement in how the HAB/APC and IPI uses OTGA, how courses and summer schools on OA and Deox uses OTGA. We should overall systematically strive to have all course visible in OTGA independently if OTGA is used actively as an e-learning tool or more serves as a way to organize and make available to trainees all course material. This will also make it easier to share training material with e.g. regional initiatives on same topics.

3. What specific support does your global programmes provide to help address the respective regional CD needs and requirements (e.g. IOCAFRICA, IOCARIBE, WESTPAC, IOCINDIO)? For WESTPAC and IOCARIBE regional needs are primarily addressed by the regions themselves, and global CD activity functions in some cases as complementary, next level courses. For IOCAFRICA the global programmes have and are providing CD support, currently in Namibia and Morocco re HAB and a suite of countries re OA (Norad funded).

4. What potential areas of collaboration with what specific partner organizations/funding organizations can be made through your respective global programs to contribute to the specific CD needs and requirements in the IOC regions? For regions where trainers are short the global programmes can and do provide a link to trainers from the global courses, sharing of training materials etc. In terms of resources WESTPAC and IOCARIBE have traditionally had own funds or funds from third party. For IOCAFRICA it has been RP funds and/or ExBud funds via HQ. Overall the regions now have more RP resources than the global OSS programmes.