



**unesco**

Intergovernmental  
Oceanographic  
Commission

# Harmful Algal Blooms:

XVIth Session of IOC-FAO IPHAB,

27-29 March 2023

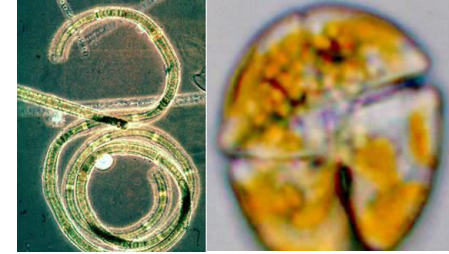
**Joe Silke – outgoing Chair of IPHAB**  
**23. June 2023**

# Harmful algal events...

## Natural marine hazards affecting almost all IOC

### Member States:

- Contaminate seafood and threatens public health and seafood industries
- Cause respiratory disease and dermatitis through direct exposure in seawater or on beaches
- Cause marine faunal mortalities and extensive ecosystem disruption
- Kill wild and farmed fish; aquaculture impacts are increasing with expansion of industry
- Threaten water supplies from desalination of seawater
- Cause globally increasing socio-economic impacts



**unesco**

Intergovernmental  
Oceanographic  
Commission



Food and Agriculture  
Organization of the  
United Nations

# IOC-FAO Intergovernmental Panel on HAB, IPHAB

---

**Mission is to assess progress, decide on priorities, and identify funding sources and opportunities for implementation of the IOC-FAO HAB Programme**

**The HAB Programme is the only global intergovernmental effort to understand, manage and mitigate the harmful effects of algal blooms**



**unesco**

Intergovernmental  
Oceanographic  
Commission



Food and Agriculture  
Organization of the  
United Nations

# IPHAB activities are implemented in partnership / linked with:



**unesco**

Intergovernmental  
Oceanographic  
Commission



# IOC-FAO Intergovernmental Panel on HAB, IPHAB

---



**unesco**

Intergovernmental  
Oceanographic  
Commission

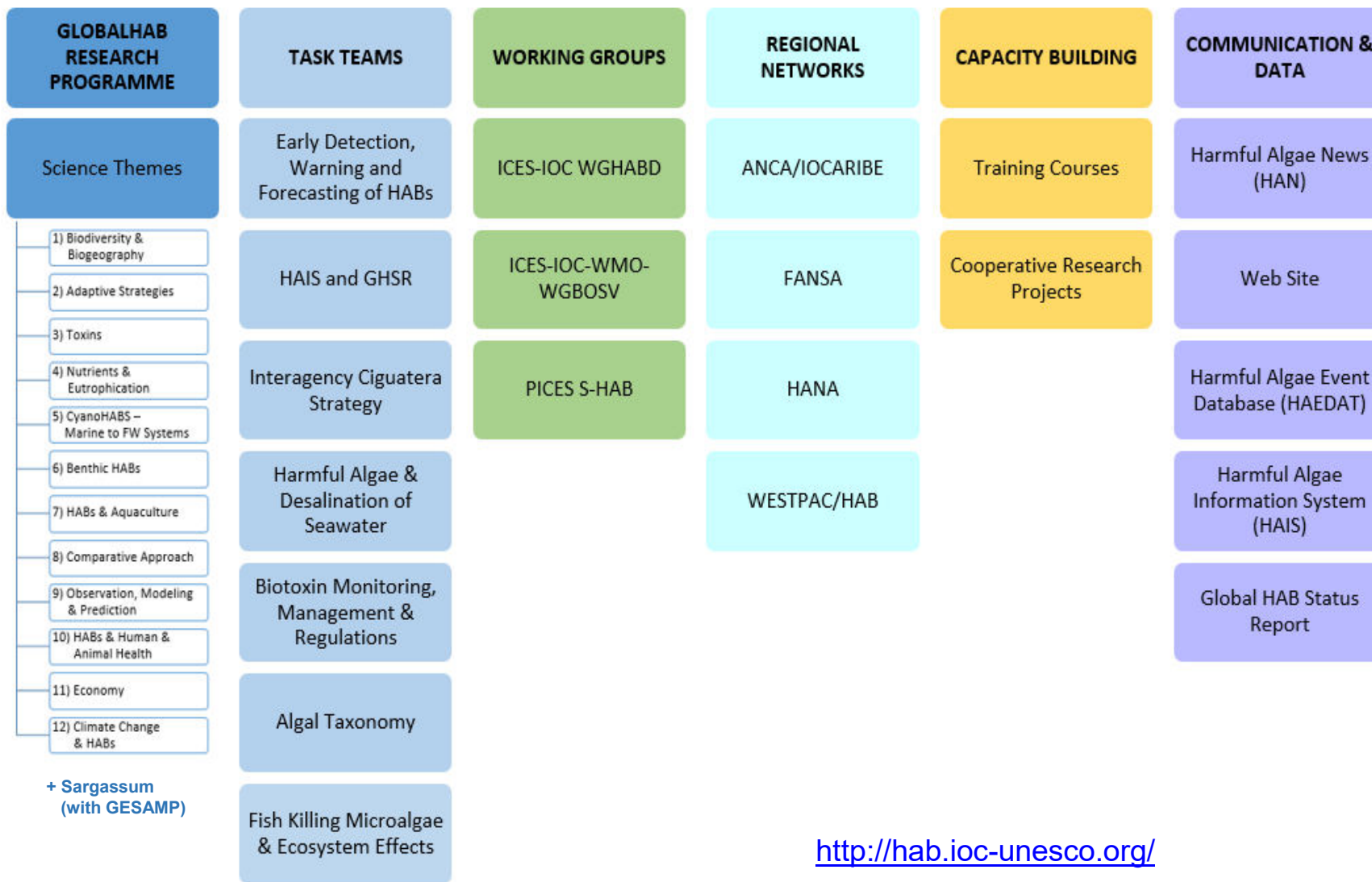


Food and Agriculture  
Organization of the  
United Nations

## 16 different groups:

- 7 IPHAB Task Teams
  - 4 Regional HAB networks and groups
  - 3 Expert Working Groups
  - 1 Steering Committee
  - 1 Project group
- 
- IOC Science and Communication Centre on HAB,  
University of Copenhagen, Denmark

# Intergovernmental Panel on HABs (IPHAB)



<http://hab.ioc-unesco.org/>



**unesco**

Intergovernmental  
Oceanographic  
Commission



Food and Agriculture  
Organization of the  
United Nations

# IPHAB XVI: 11 Decisions

1. Regional HAB Programme Development
2. TT: Early Detection, Warning and Forecasting of Harmful Algal Events
3. TT: Development of HAIS and the GHSR
4. TT: Global Ciguatera Strategy for Improved Research and Management
5. TT: Harmful Algae and Desalination of Seawater
6. TT: Biotoxin Monitoring, Management and Regulations
7. TT: Algal Taxonomy
8. TT: Fish Killing Microalgae and Ecosystem Effects
9. TT: HAB Communication
10. HABs in a Changing World: Global Approach to HAB Research to Meet Societal Needs
11. HAB Solutions (HAB-S) an UN Ocean Decade Programme Proposal



**unesco**

Intergovernmental  
Oceanographic  
Commission



Food and Agriculture  
Organization of the  
United Nations

# Decision IPHAB-XVI.9 TASK TEAM ON HAB COMMUNICATION



- **Support IOC newsletter Harmful Algae News (HAN) has been published regularly since 1992 and is currently distributed to about 5.500 recipients**
- **Editorial board and Regional editors are expected to actively follow up on HAB events and to write an article for HAN on basis of collated information and references**



**unesco**

Intergovernmental  
Oceanographic  
Commission

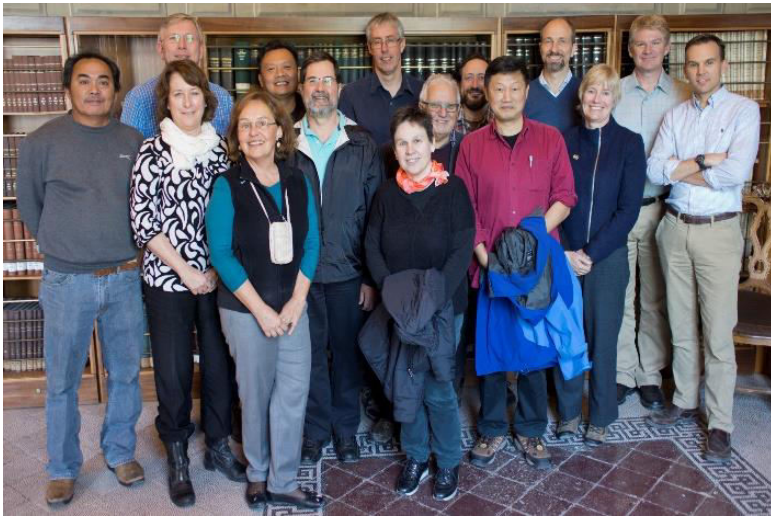


Food and Agriculture  
Organization of the  
United Nations



## Decision IPHAB-XVI.10 HABS IN A CHANGING WORLD:

### GLOBAL APPROACH TO HAB RESEARCH TO MEET SOCIETAL NEEDS



- **Joint IOC-SCOR international science programme on Harmful Algal Blooms (GlobalHAB)**
- **Asked by IPHAB to:**
  - **recommend on main elements of an international HAB research programme after 2025**
  - **assess the ideal organization of and partnerships for such an international research program**



**unesco**

Intergovernmental  
Oceanographic  
Commission



Food and Agriculture  
Organization of the  
United Nations

## HAB SOLUTIONS (HAB-S) - AN UN OCEAN DECADE PROGRAMME PROPOSAL



- **Mitigate HAB impacts on society, coastal and marine ecosystems;**
- **Improve ecosystem observation through the development of transformational instrumentation and approaches;**
- **Provide data solutions including innovative database management and data integration through an interactive portal that meets user needs;**
- **Improve HAB literacy.**



**unesco**

Intergovernmental  
Oceanographic  
Commission



Food and Agriculture  
Organization of the  
United Nations

# IPHAB XVI: 2 Recommendations

1. IOC HAB Programme Work Plan 2024-2025
2. Operation of the IOC IPHAB



**unesco**

Intergovernmental  
Oceanographic  
Commission



Food and Agriculture  
Organization of the  
United Nations

# IOC-FAO IPHAB XVI

---

*Elected Chair (2023-2025): Dr. Philipp Hess (France)*

*Elected Vice-chair (2023-2025): Dr. Maggie Broadwater (USA)*



**unesco**

Intergovernmental  
Oceanographic  
Commission



Food and Agriculture  
Organization of the  
United Nations



# IPHAB-XVI Recommendation on the Work Plan for 2024-2025



**unesco**

Intergovernmental  
Oceanographic  
Commission



<b>Expected requested funding in known scenario (2024–2025)</b>	<b>US\$26,000 from IOC Regular Programme (42 C/5)</b>
<b>To be identified from extra-budgetary resources and/or in-kind for full implementation</b>	<b>USD ~285,000 to be identified from extra-budgetary resources and in-kind for full implementation.</b>

# The Assembly is invited to:

---

- **Endorse the IPHAB-XVI Recommendations including the Work Plan for 2024-2025**
- **Ensure the necessary Regular Programme funding to allow operation of the HAB Programme core activities**
- **Assist in identifying extra-budgetary resources for implementation of the Programme 2024-2025**



**unesco**

Intergovernmental  
Oceanographic  
Commission



Food and Agriculture  
Organization of the  
United Nations



# THANK YOU

<https://hab.ioc-unesco.org/>

[Email: hab.ioc@unesco.org](mailto:hab.ioc@unesco.org)



**unesco**

Intergovernmental  
Oceanographic  
Commission



Food and Agriculture  
Organization of the  
United Nations

