# INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION

## 2026 Meeting of the IODE Management Group
**IOC Project Office for IODE, Oostende, Belgium**
**28-29 January 2026**

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**REPORT (MAX 2 PAGES) - please answer in bullets where possible**

**1. The Underway Sea Surface Salinity Data Archiving Programme Activity (GOSUD)**

2. Report submitted by *DROUINEAU Ludovic – ludovic.drouineau@ifremer.fr*

3. Updates since IODE-28 (*)

- Since IODE-28, GOSUD has actively contributed to the global ocean observing community. We participated in SOT-13, where we have presented the importance of thermosalinograph data. GOSUD also took part in the first three meetings establishing the TSG (thermosalinograph) emerging network (TSGnet) under GOOS, helping define its objectives, governance, and technical foundations. These efforts reinforce GOSUD's role in supporting GOOS, IODE, and UN Ocean Decade objectives.

4. How does your work align with the objectives of IODE, the UN Ocean Decade, and other multilateral agreements?

- GOSUD directly contributes to the objectives of IODE by ensuring the collection, quality control, and dissemination of oceanographic data, particularly sea surface salinity, temperature, and biogeochemical underway measurements.
- GOSUD directly provides data to EMODnet Physics[1], Copernicus Marine Service[2], NCEI[3], SeaDataNet[4].
- GOSUD will contribute to the UN decade Initiative "10000 Ships for the Ocean[5]", which aims to equip commercial vessels with meteorological sensors – but also thermosalinographs, in a second step to significantly expand global ship-based observations by 2035.
- These datasets are important for:
  - Supporting sustainable ocean management and climate monitoring under the UN Ocean Decade.
  - Facilitating global data sharing in line with the FAIR principles promoted by

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[1] https://emodnet.ec.europa.eu/geoviewer/
[2] https://data.marine.copernicus.eu/products
[3] National Center for Environmental Information . https://www.ncei.noaa.gov/
[4] https://cdi.seadatanet.org/search
[5] https://10000ships.org/

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IODE and GOOS.
- o Strengthening international cooperation for ocean observation networks, including the emerging TSGnet[6], which aims to harmonize underway sensor data collection globally.
- Through these activities, we ensure that data generated by GOSUD are openly available to the scientific community, policymakers, and operational oceanography programs.

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5. Prioritised deliverables 2026-2027
- Prepare the technical, organizational, and governance foundations for TSGnet as an emerging network under GOOS by preparing meetings and Term Of References.
- Develop operational and technical synergies with OCG emerging networks[7] such as FVON[8] and SOCONET[9], which include vessels equipped with TSG systems.
- Increase the number of contributing platforms by establishing connections with existing national and international data portals, including RVData[10].

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6. GOALS 2030 (Where do you see your work / activities / outcomes in 5 years?)

- A fully operational TSGnet network contributing real-time TSG underway datasets to the global ocean observing system.
- GOSUD recognized as the reference database for surface salinity and temperature for TSGnet..
- Strengthened international collaboration, including synergies with GOOS, UN Ocean Decade programs such as 10000 ships, and emerging regional observing networks.

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7. Considerations for / Requests to the IODE Management Group
- We suggest that IODE considers establishing a regular coordination mechanism (e.g. periodic workshops) involving GTSPP[11], IQuOD[12], WOD[13], GOSUD and other relevant initiatives such as the one held in Bologna[14]. This would help ensure long-term coherence of global ocean data systems and reinforce the collective contribution of these programs to GOOS and the UN Ocean Decade.
- We would like that IODE supports the emerging network TSGnet within the global ocean observing and data ecosystem.
- We would like also that IODE supports GOSUD in the contribution of 10000 ships.

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(*) See Action sheet: IOC/IODE-28/3 Annex V

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[6] TSGnet : Emerging Network for thermosalinograph data wich accurately determines sea surface temperature and conductivity from underway vessels..
[7] https://goosocean.org/news/three-emerging-observing-networks-join-the-global-ocean-observing-system/
[8] https://www.fvon.org/
[9] https://www.ioccp.org/soconet
[10] https://www.rvdata.us/
[11] https://legacy.iode.org/legacy.iode.org/index6fee.html?option=com_content&view=article&id=19&Itemid=58
[12] https://legacy.iode.org/legacy.iode.org/index6fee.html?option=com_content&view=article&id=19&Itemid=58
[13] https://legacy.iode.org/legacy.iode.org/index199c.html?option=com_content&view=article&id=371&Itemid=100086
[14] https://oceanexpert.org/document/36884