EMORID tox database versions

Welcome to the EMORID_tox repository. The EMORID (nutrients) and EMORID_tox (hazardous substances) databases contain daily load values for rivers discharging onto the European Shelf and Baltic, for use in marine ecosystem modelling. For details on coverage and procedure please see the EMORID_guide document in the EMORID repository at https://doi.org/10.25850/nioz/7b.b.th . Both EMORID and EMORID_tox are based almost exclusively on officially reported annual loads to OSPAR RID and HELCOM PLC databases. This makes them politically correct and thus acceptable to participating countries, but as annual values were used the variability is less than if concentration data was used directly. The ICG-EMO database does use concentration data were possible and should provide a more seasonally varying estimate once the new version is completed (expected spring 2026).

Note that during construction of the EMORID database serious errors were detected in reported RID values, and countries were subsequently asked to resubmit corrected annual data directly to OSPAR ICG-EMO for this work. HELCOM was not asked to resubmit values. This database may thus be based on different values than are available from the official RID database. It is expected that all countries will submit their corrected data to the new RID+ database in time.

EMORID_tox VERSIONS

Version	Date	Description
v0	2025-Oct-08	Contains daily loads for hazardous substances based on the RID and PLC databases. Includes correction of error in the Swedish loads but does not include any data for Denmark as none was reported to OSPAR or HELCOM.

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REFERENCES

van Leeuwen SM, Lenhart H-J, Prins TC, Blauw A, Desmit X, Fernand L, Friedland R, Kerimoglu O, Lacroix G, van der Linden A, Lefebvre A, van der Molen J, Plus M, Ruvalcaba Baroni I, Silva T, Stegert C, Troost TA and Vilmin L (**2023**) Deriving pre-eutrophic conditions from an ensemble model approach for the North-West European seas. Front. Mar. Sci. 10:1129951. doi: 10.3389/fmars.2023.1129951, https://www.frontiersin.org/articles/10.3389/fmars.2023.1129951/full