Supplementary information S1

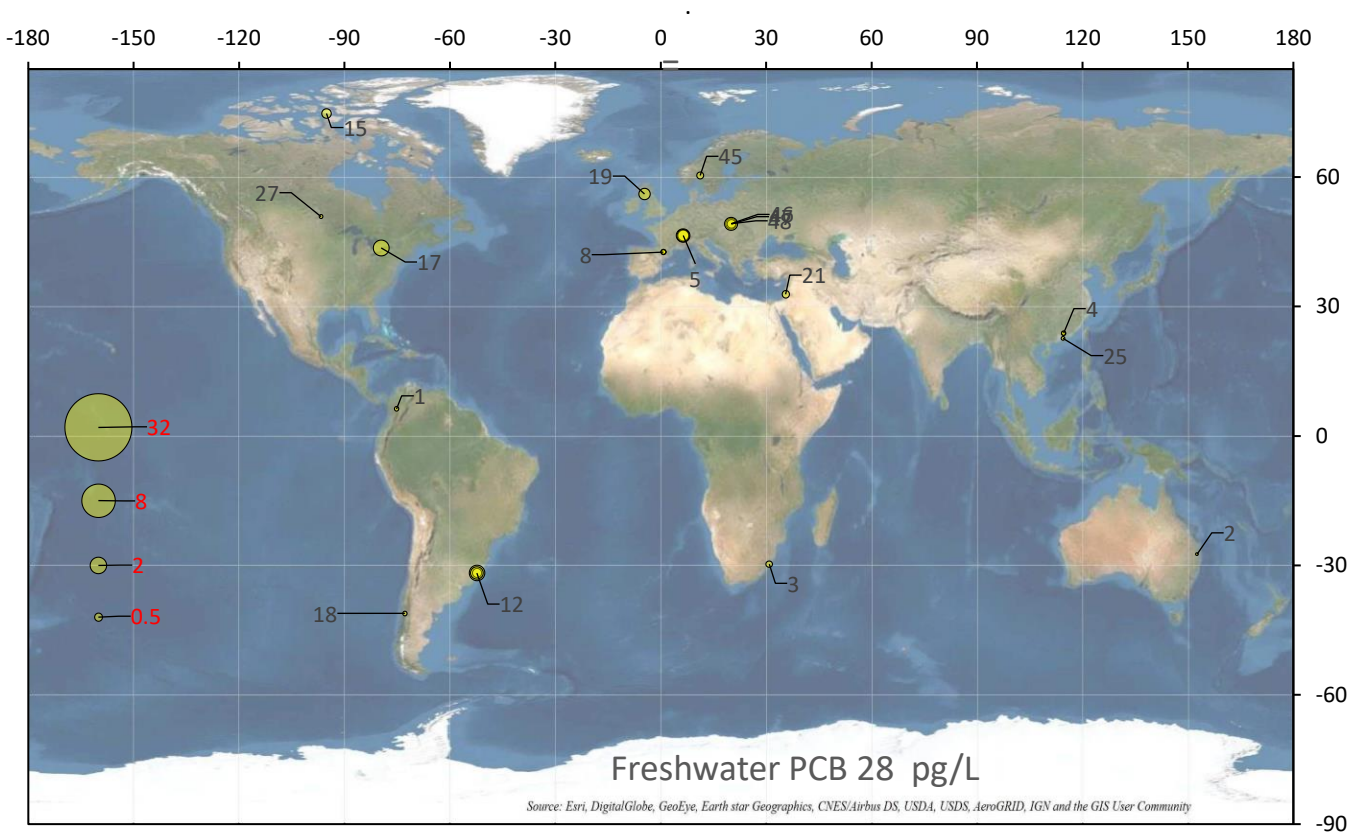
Showing Figures S1-1 to S1-36

Geographical distributions of aqueous PCB/OCP concentrations obtained by AUQ-GAPS/MONET passive sampler deployments

On the following pages compound concentrations derived from SSP passive samplers[1] are depicted as bubbles on a world map annotated with the last two digits of the location code. More details on the location and sampling events can be found in SI Table S3. The compound name is shown at the bottom of the graph. The bubble area represents the concentration (pg L^{-1}) and red colored numbers near the bubbles at the left-hand side indicate how bubble size corresponds to the concentration. As the concentration is proportional to the bubble area, the diameter is essentially representing the concentration on a log 2 scale. Multiple circles at the same station indicate that sample deployments were conducted in multiple years. As a bubble color is transparent, the bubble is more intense colored when multiple samplings cause bubbles to be piled up.
Separate maps were presented for fresh water (upper graph with yellow bubbles[2]) and marine water (lower graph with blue bubbles). For both graphs the same scale was applied.

The maps were produced by Microsoft Office Excel (MS2021) using the bubble graph function, with a map of a flat world inserted as background. The production process in Excel and export to Word was automated by an Excel macro in Visual Basic.

[1] No correction for temperature and/or salinity was applied
[2] Note that due to using transparent colors the actual bubble color is affected by the background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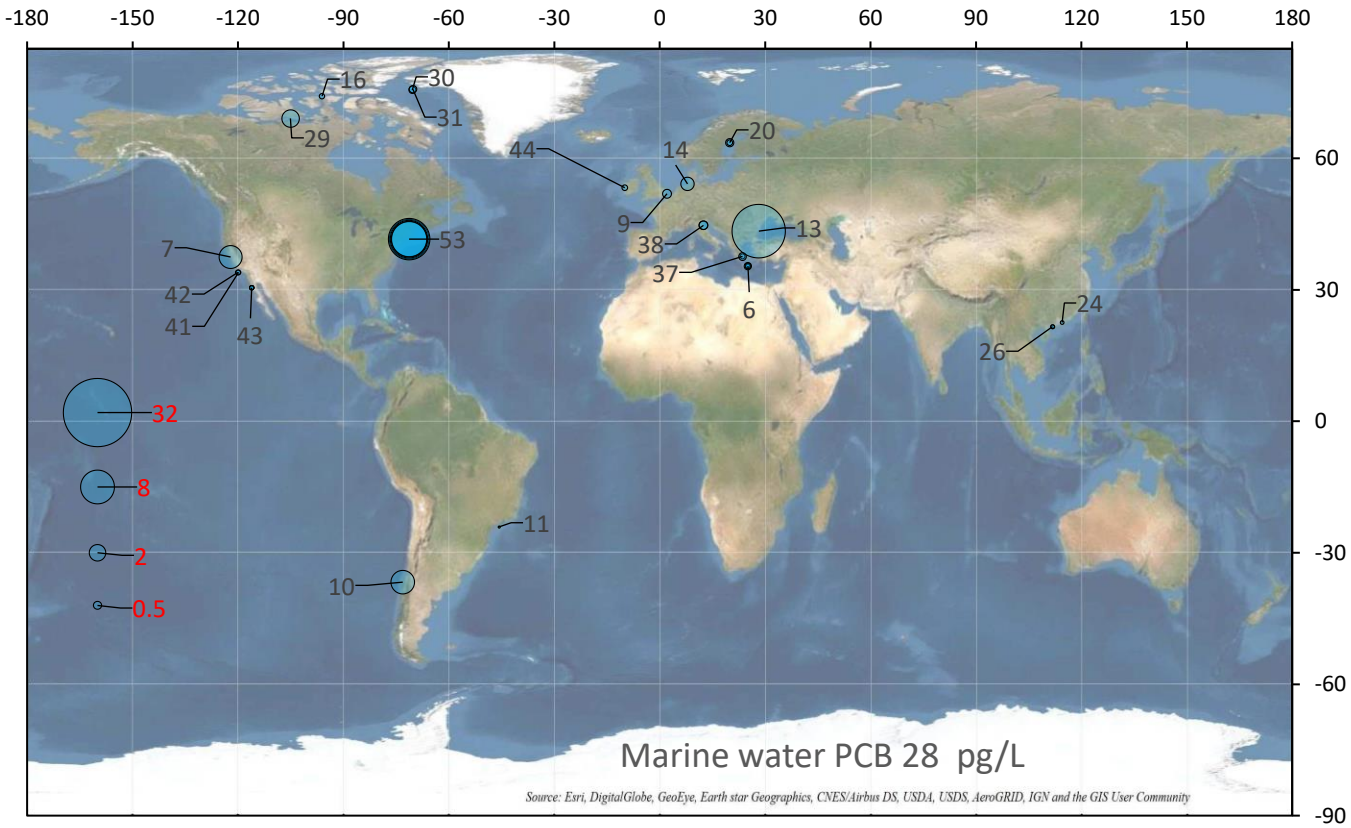
Freshwater PCB 28 pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water PCB 28 pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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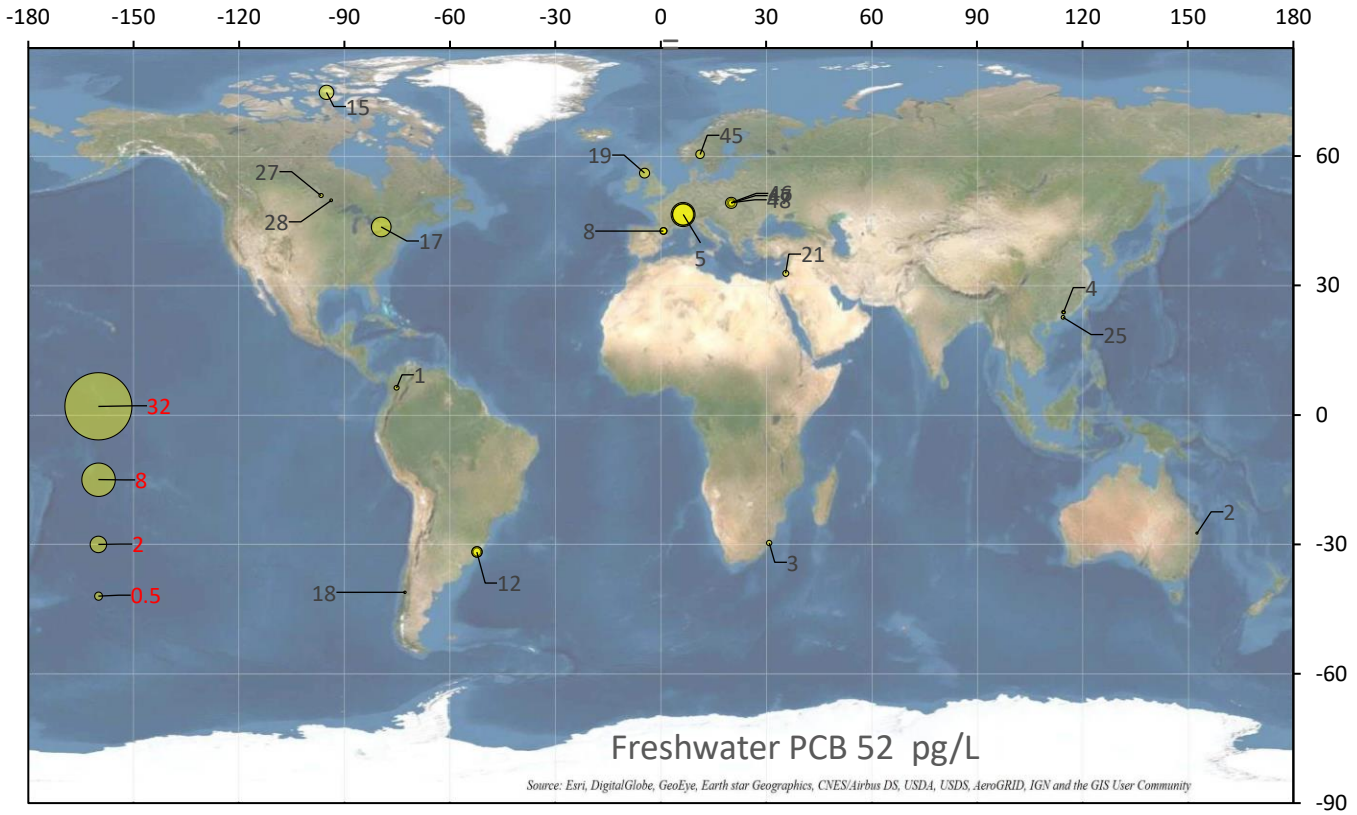
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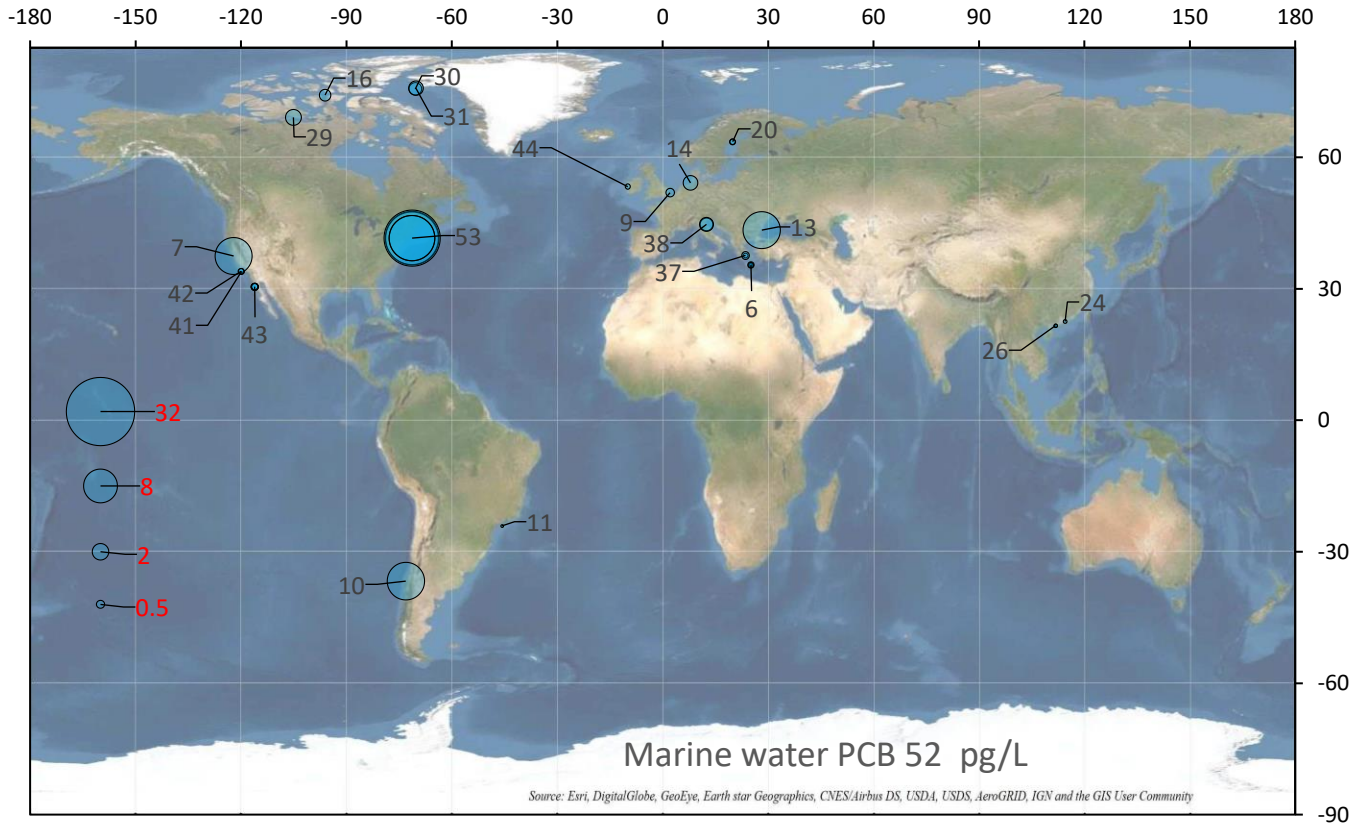
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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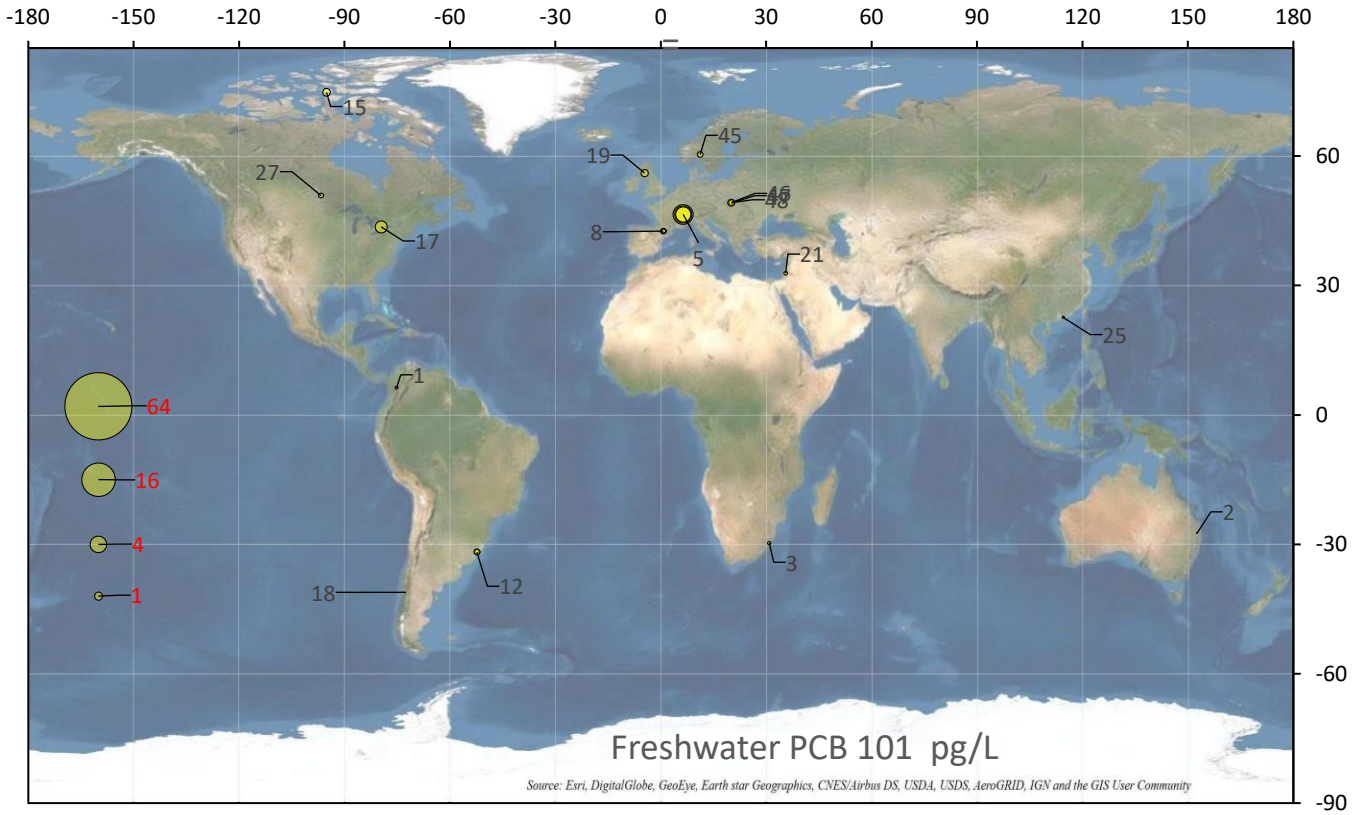
Marine water PCB 52 pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

Figure S1 – 3



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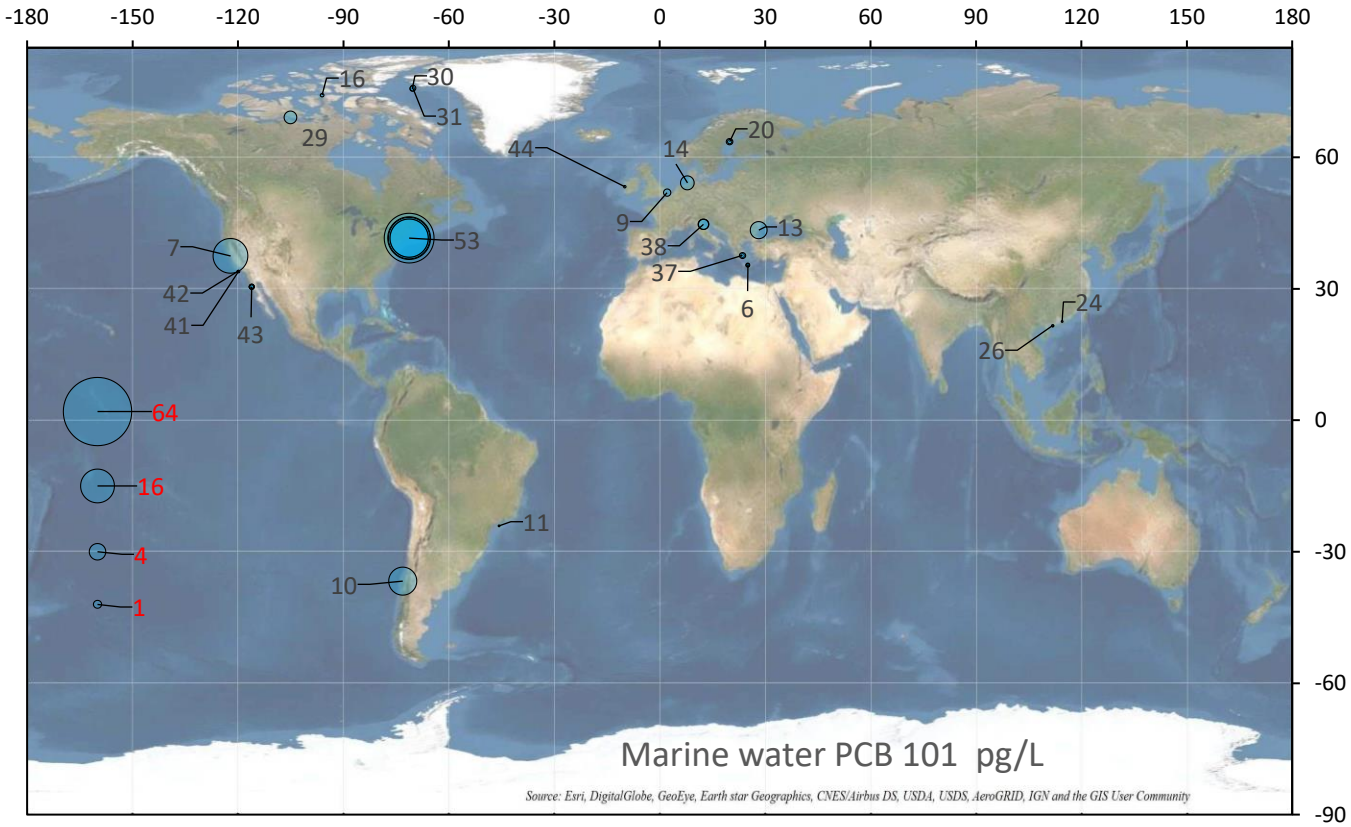
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community



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Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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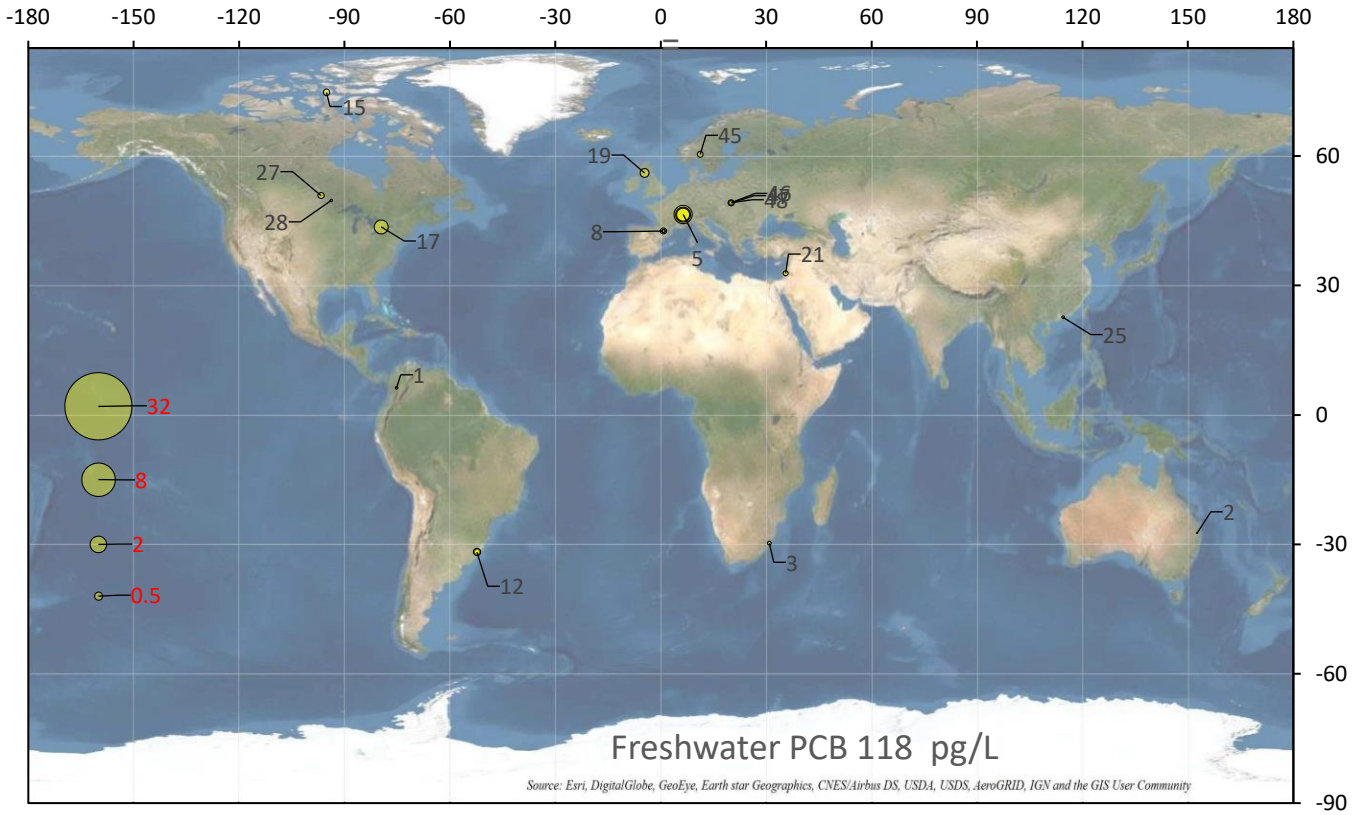
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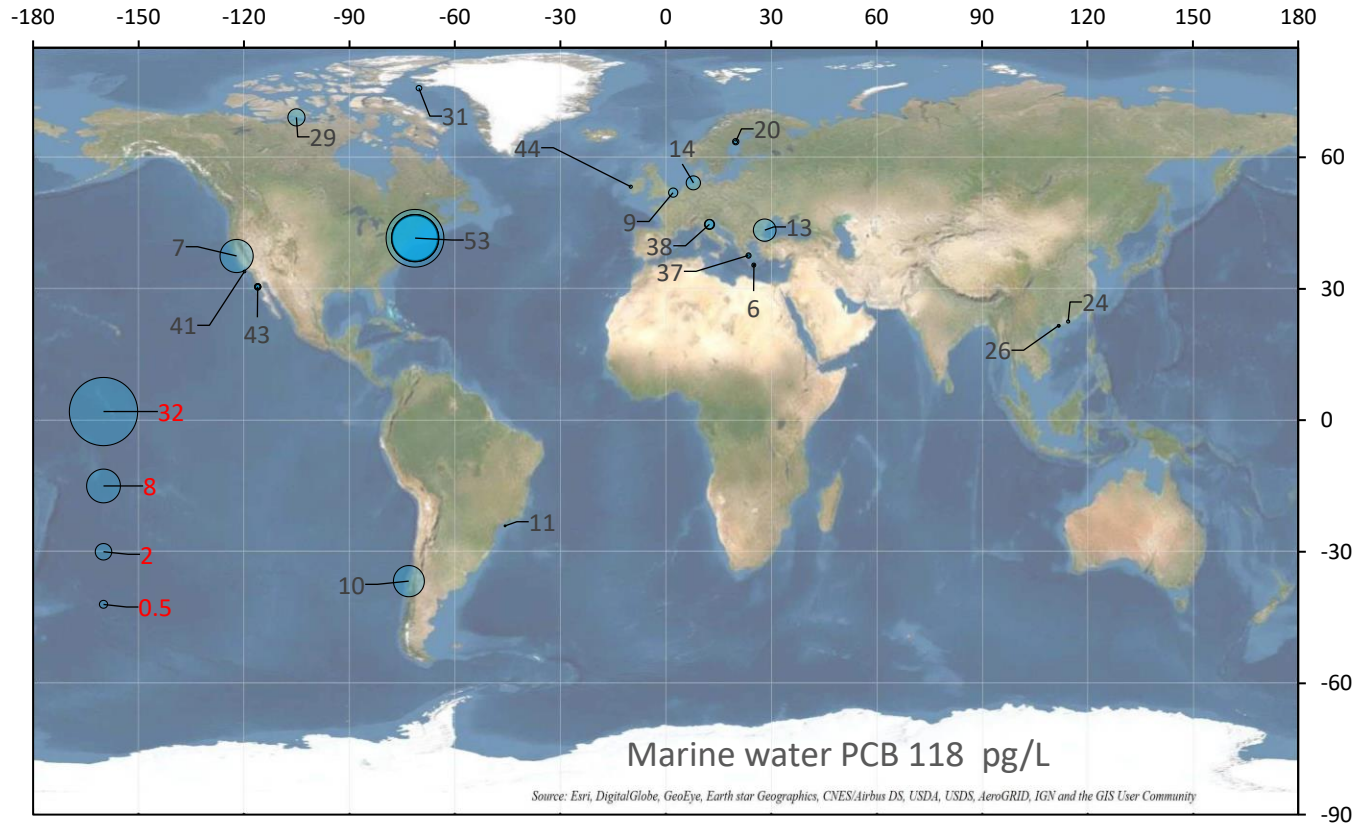
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water PCB 118 pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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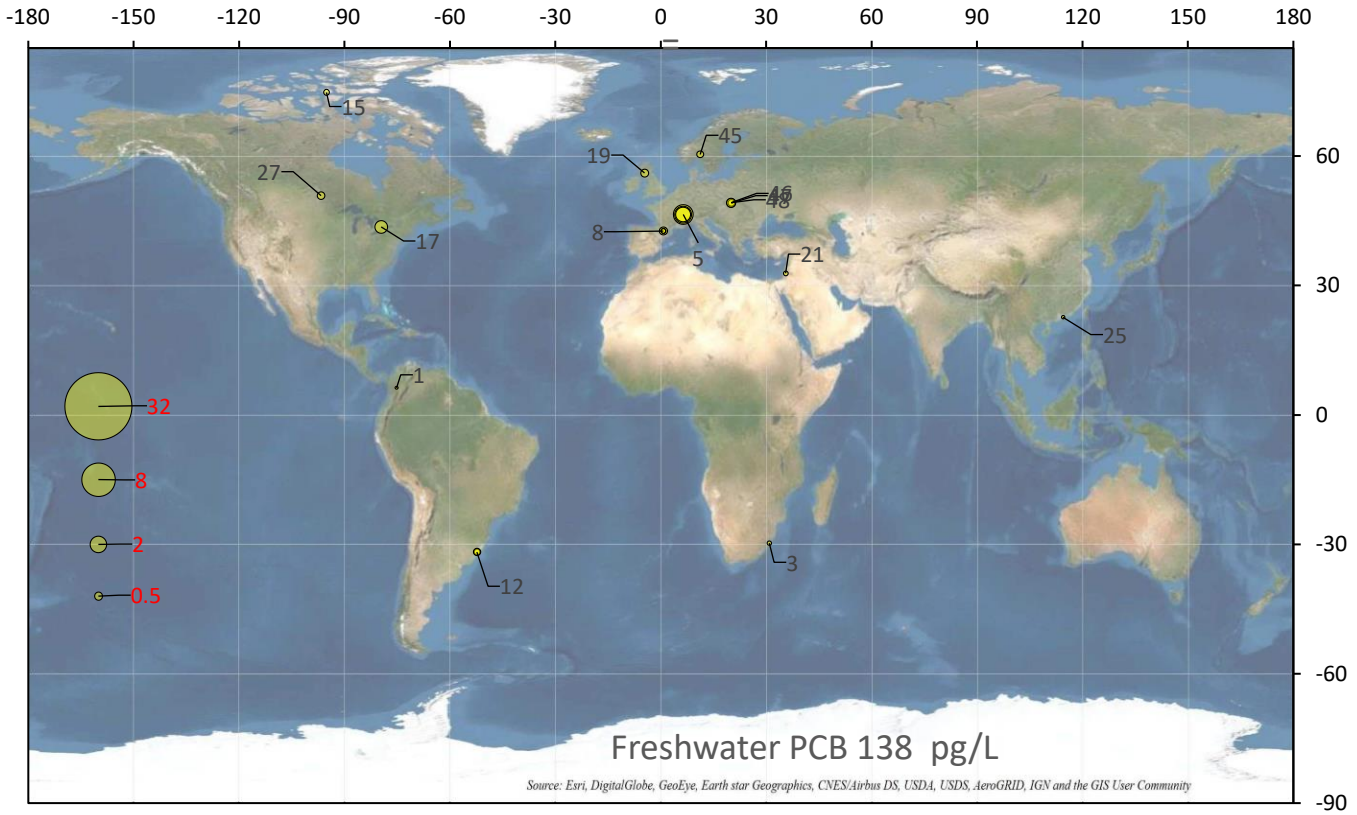
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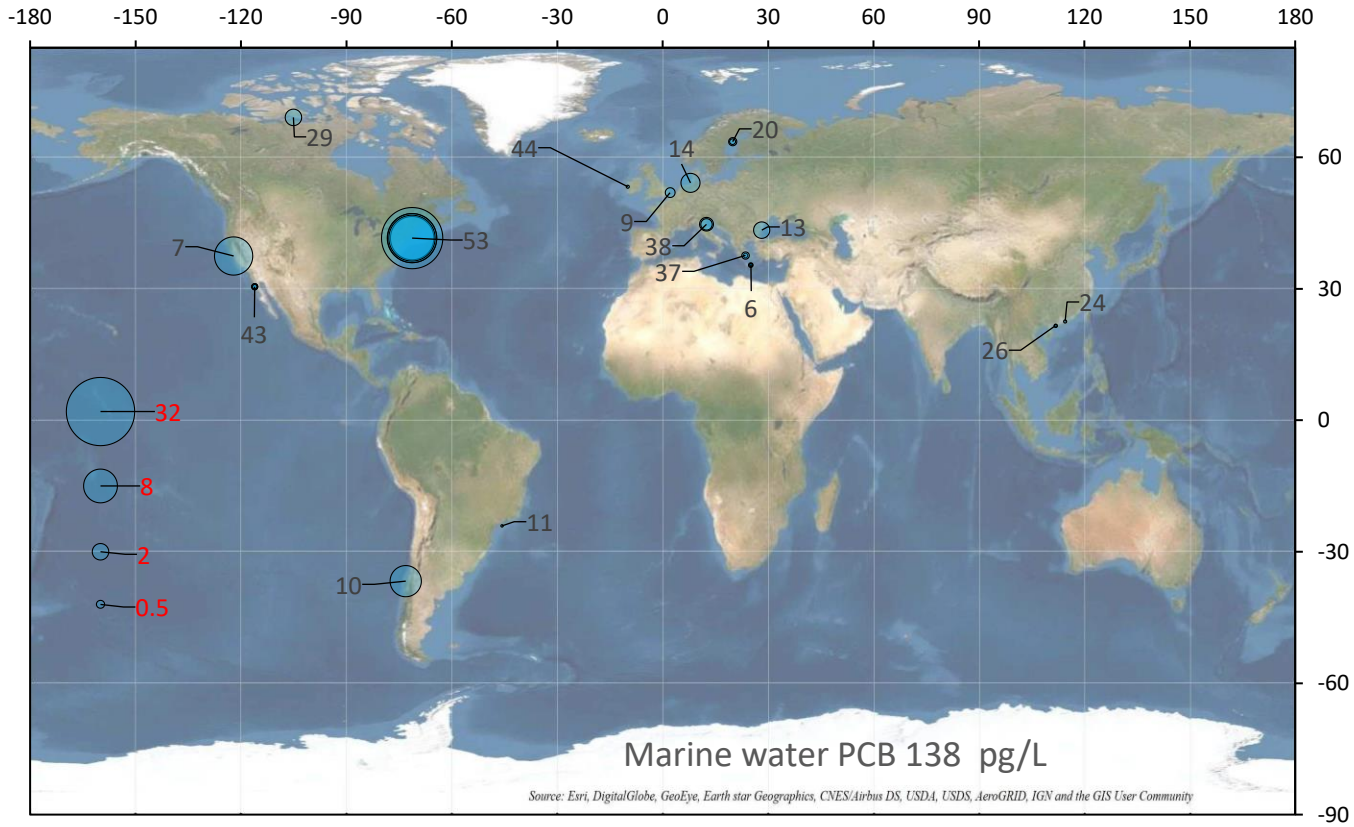
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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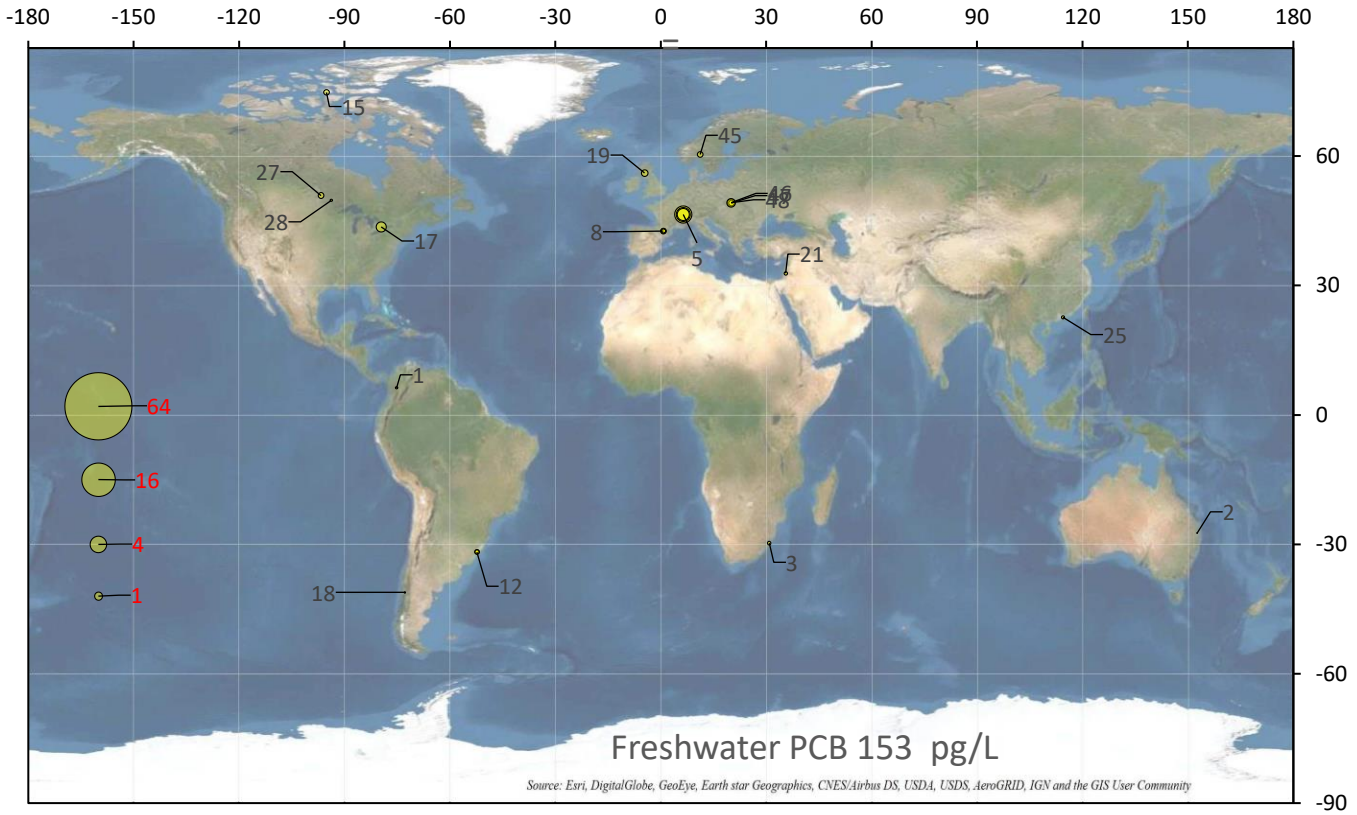
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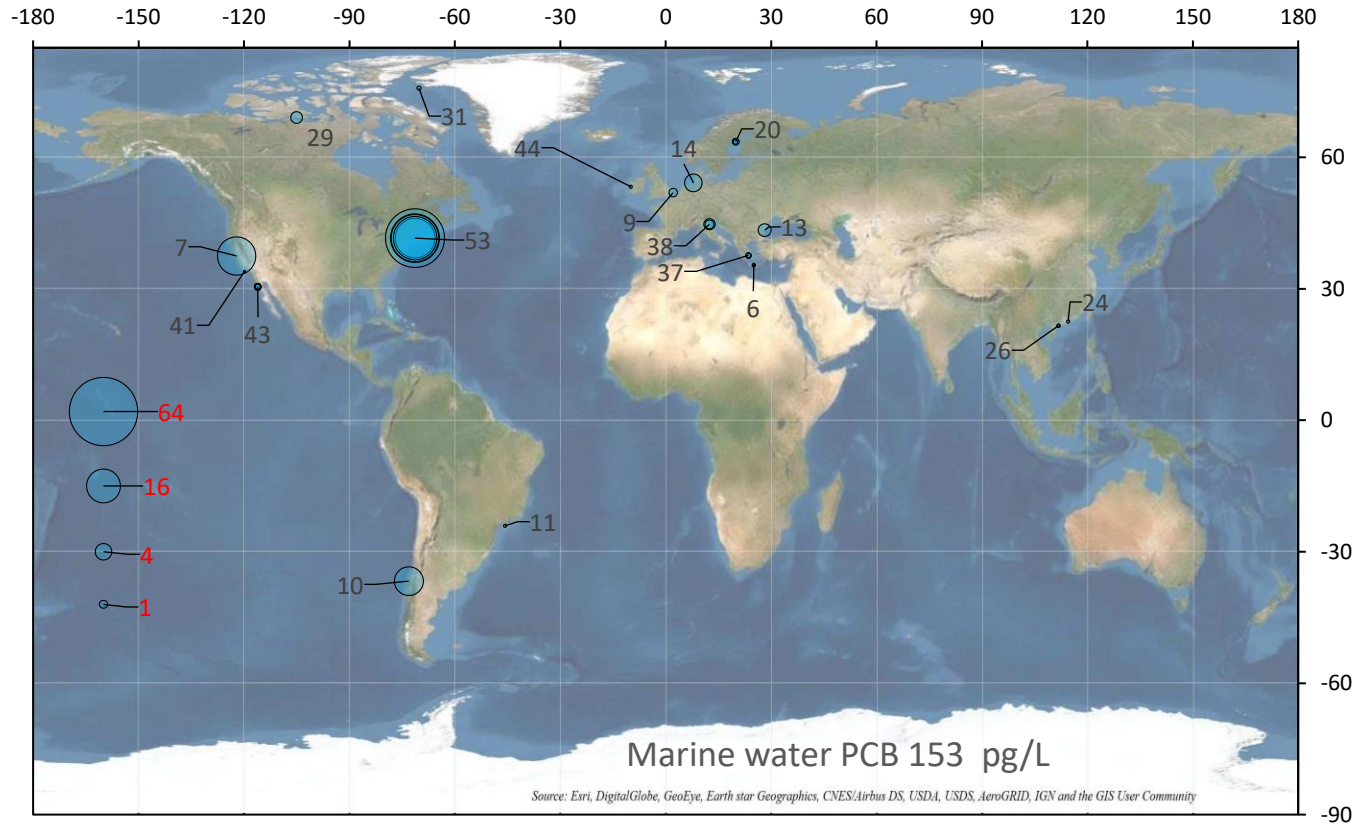
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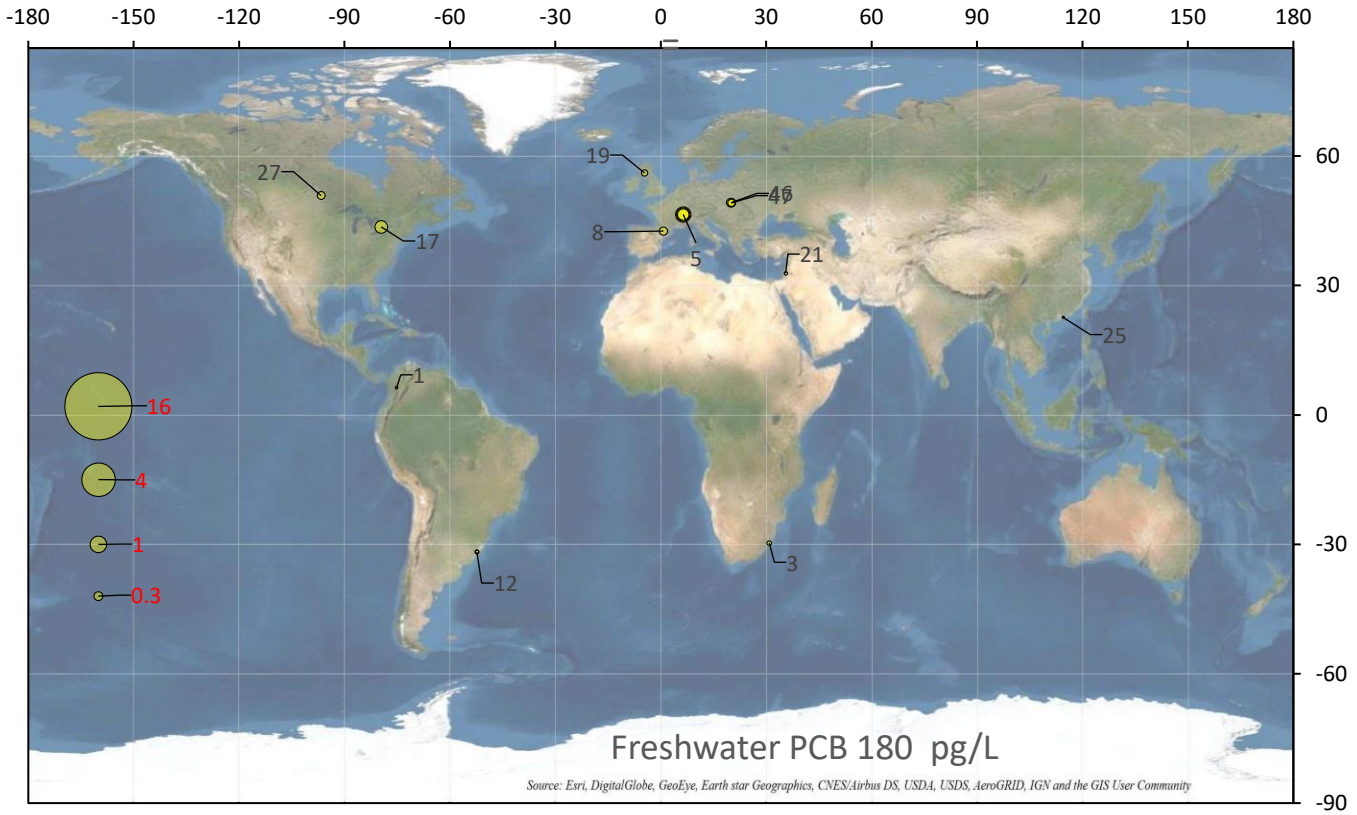
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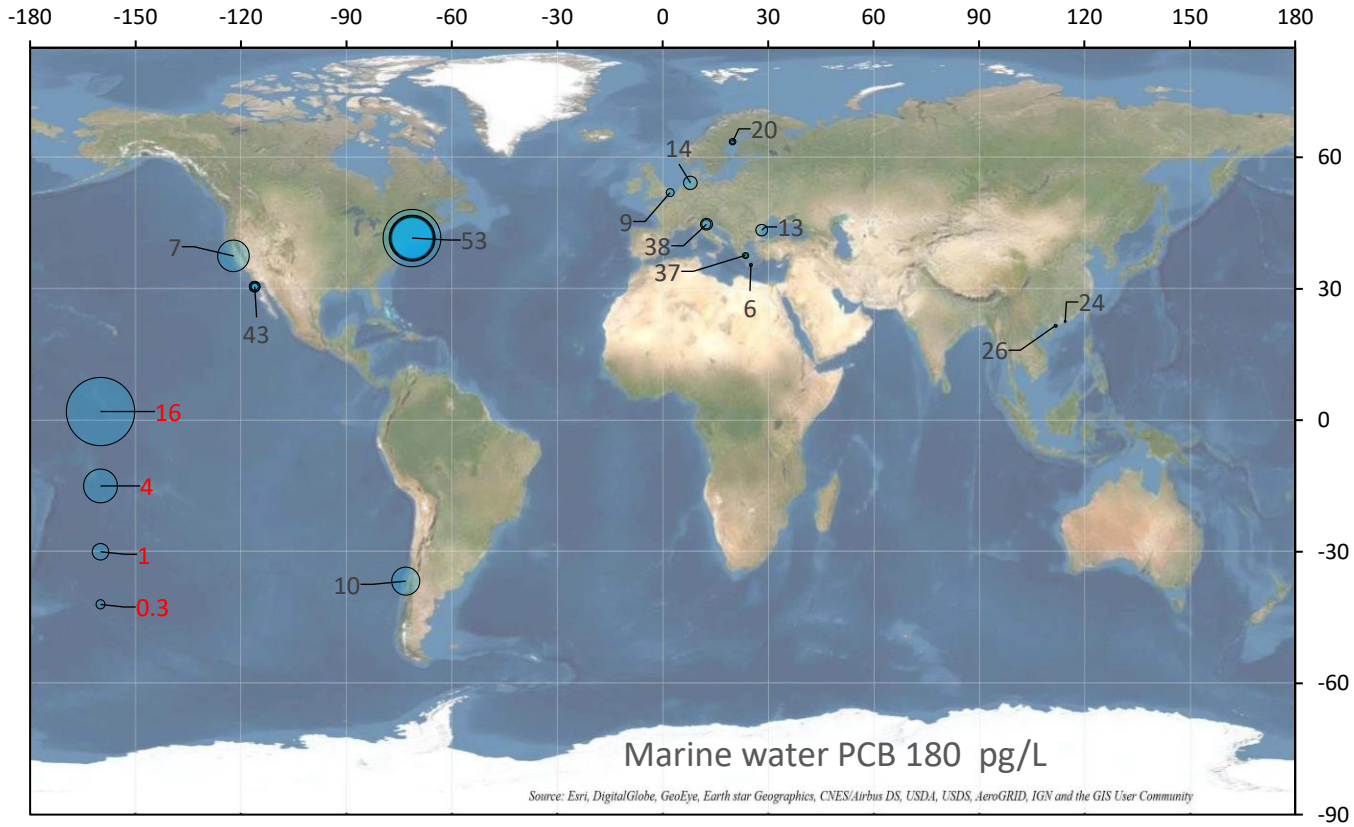
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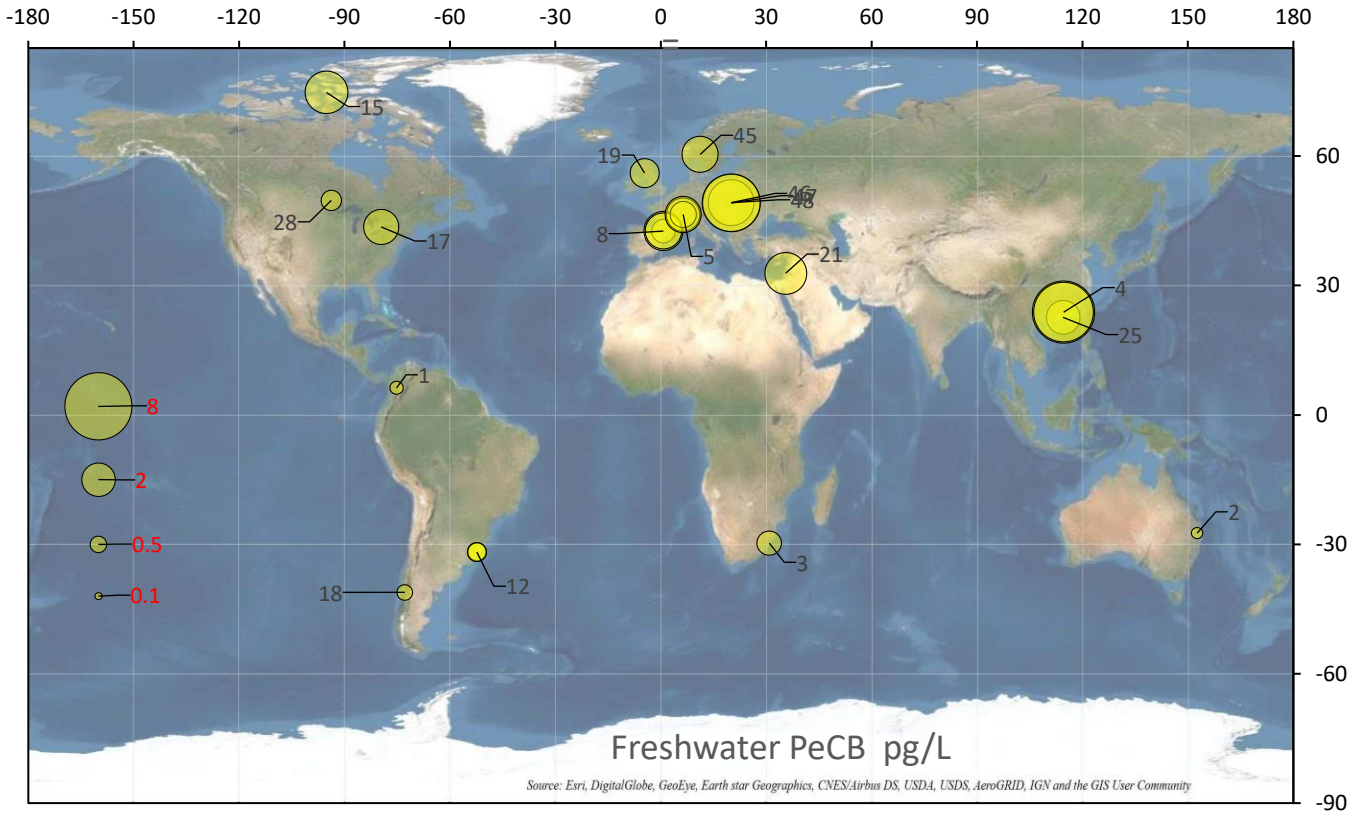
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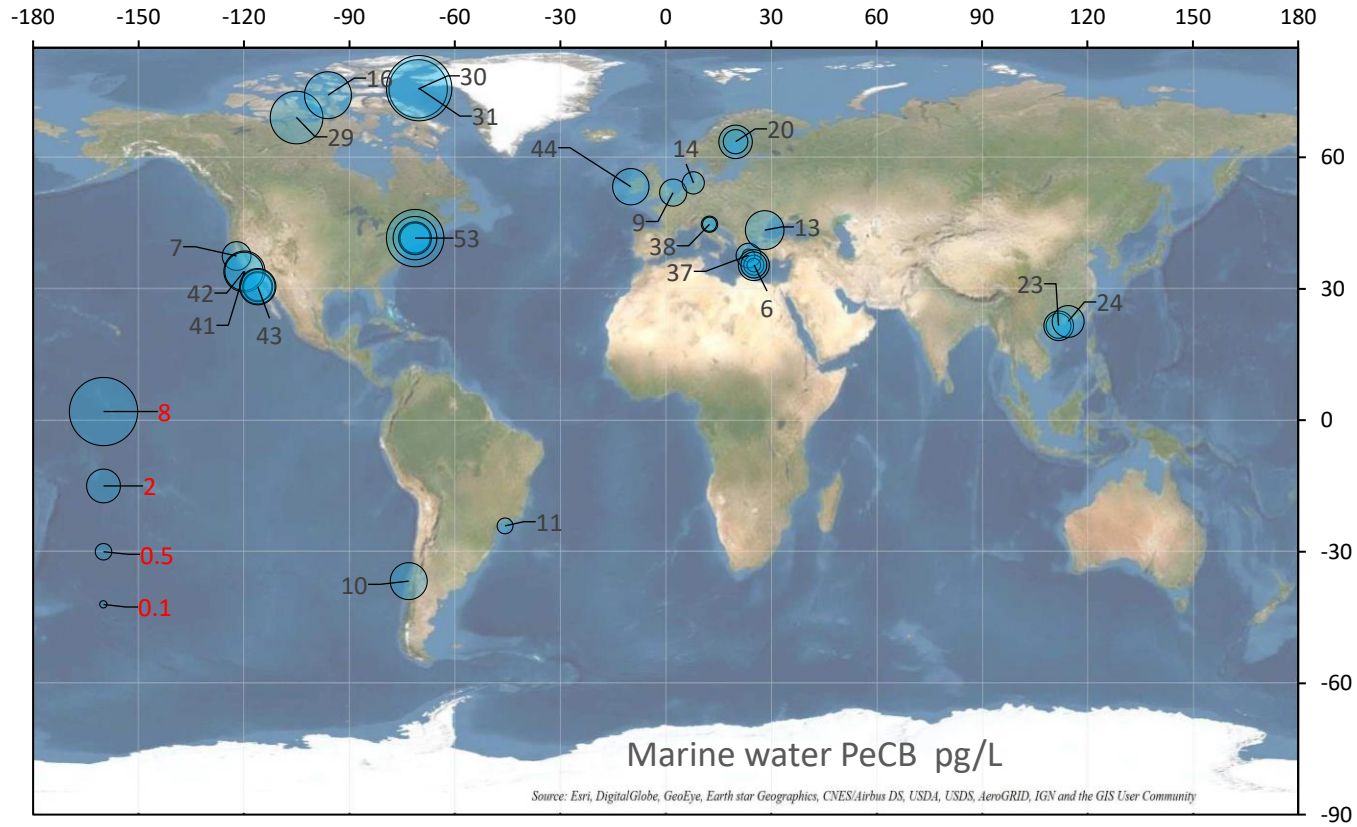
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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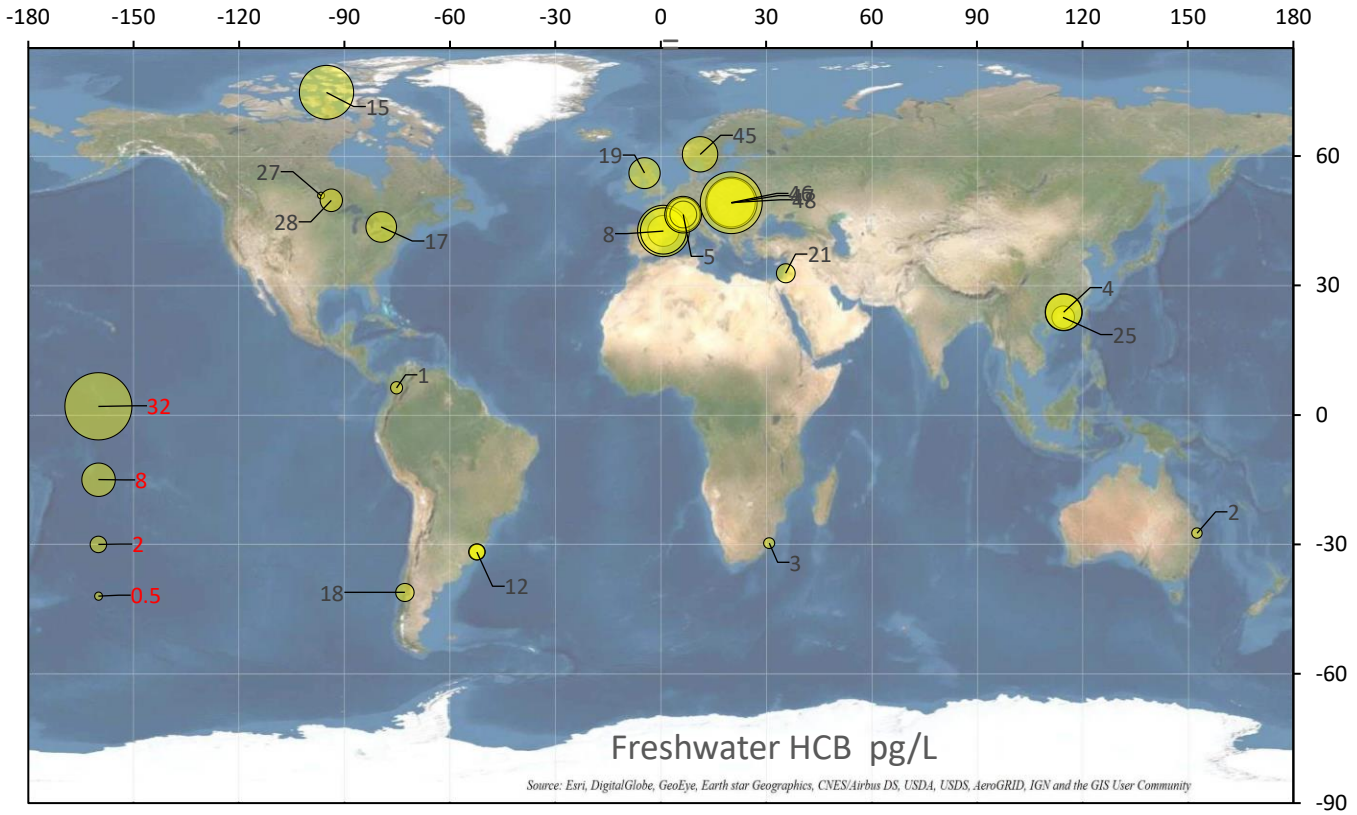
Marine water PeCB pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

Figure S1 – 9



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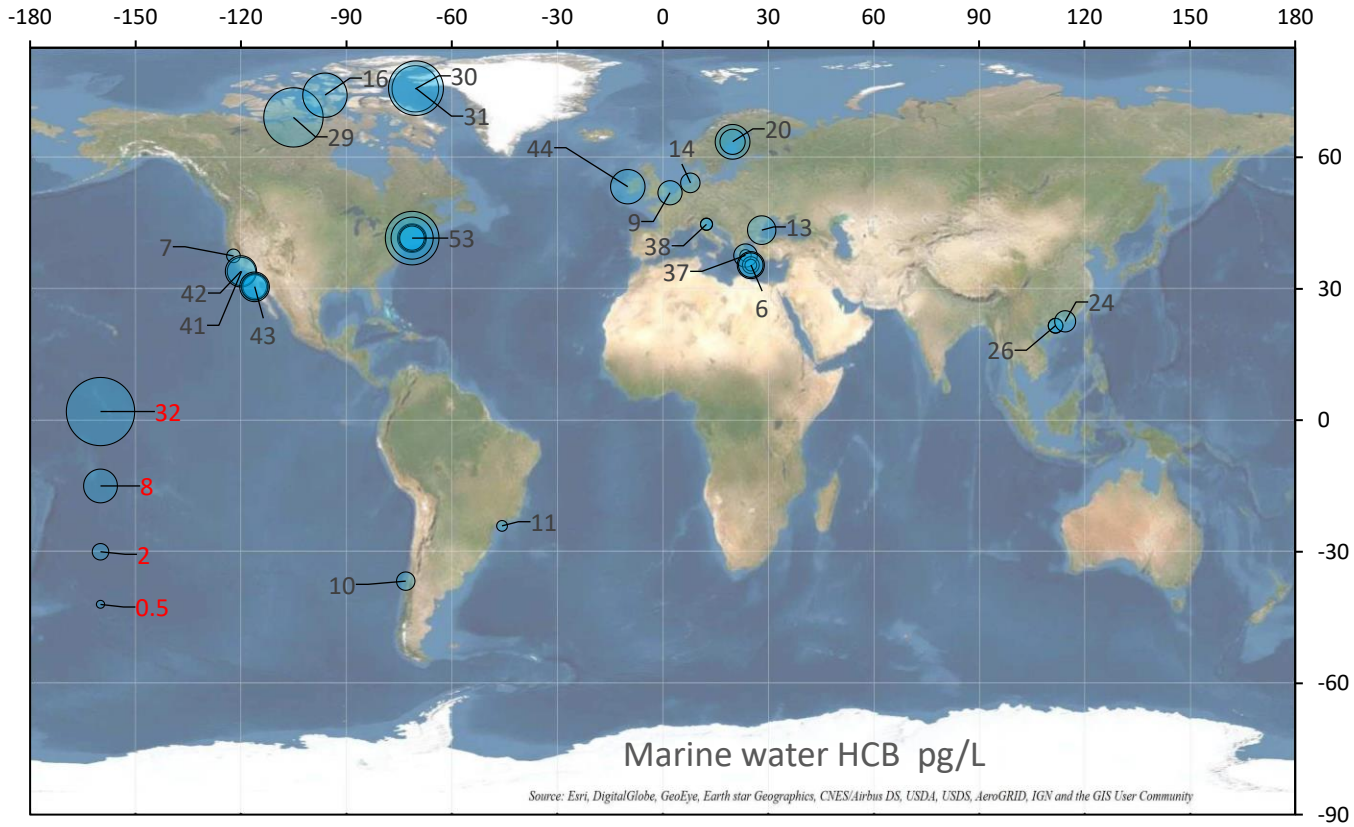
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community



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Marine water HCB pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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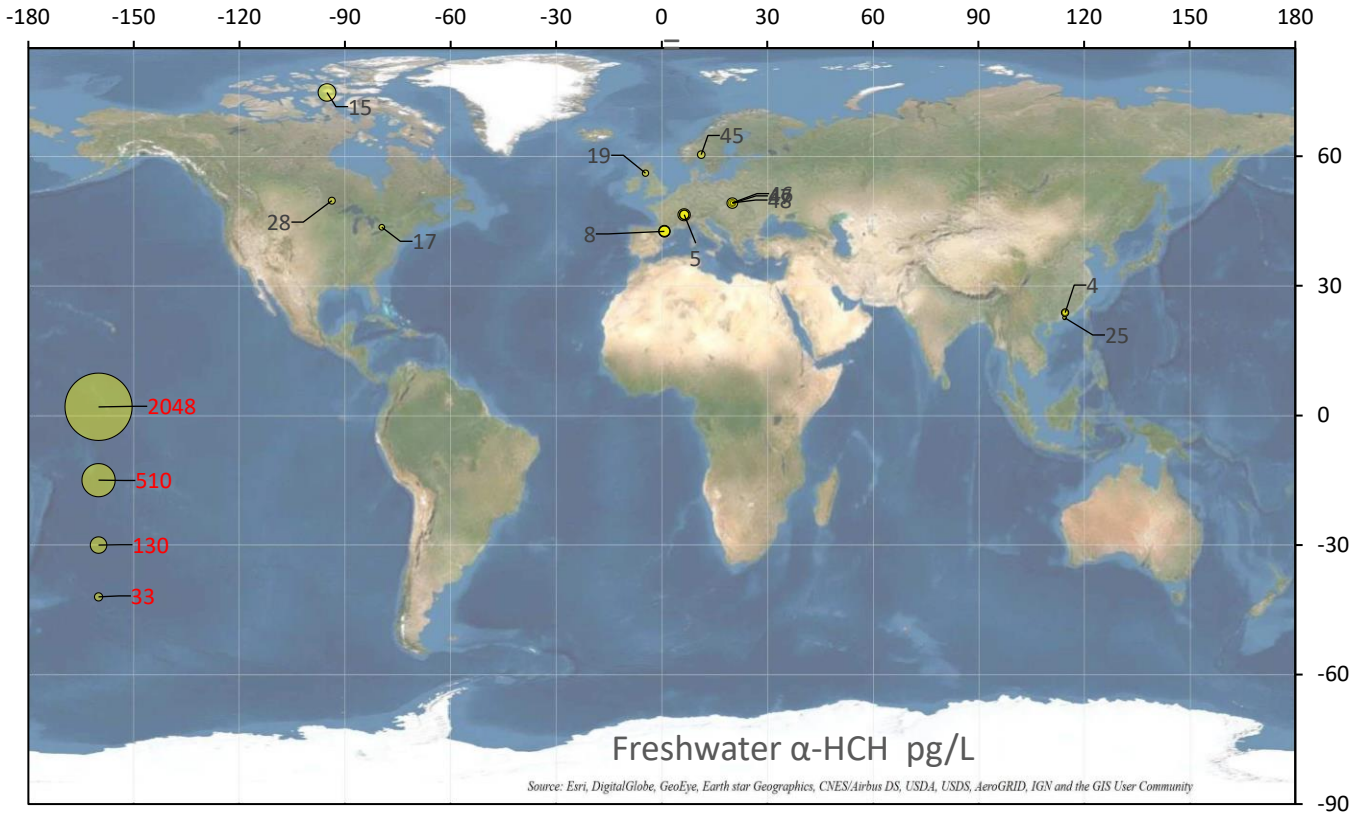
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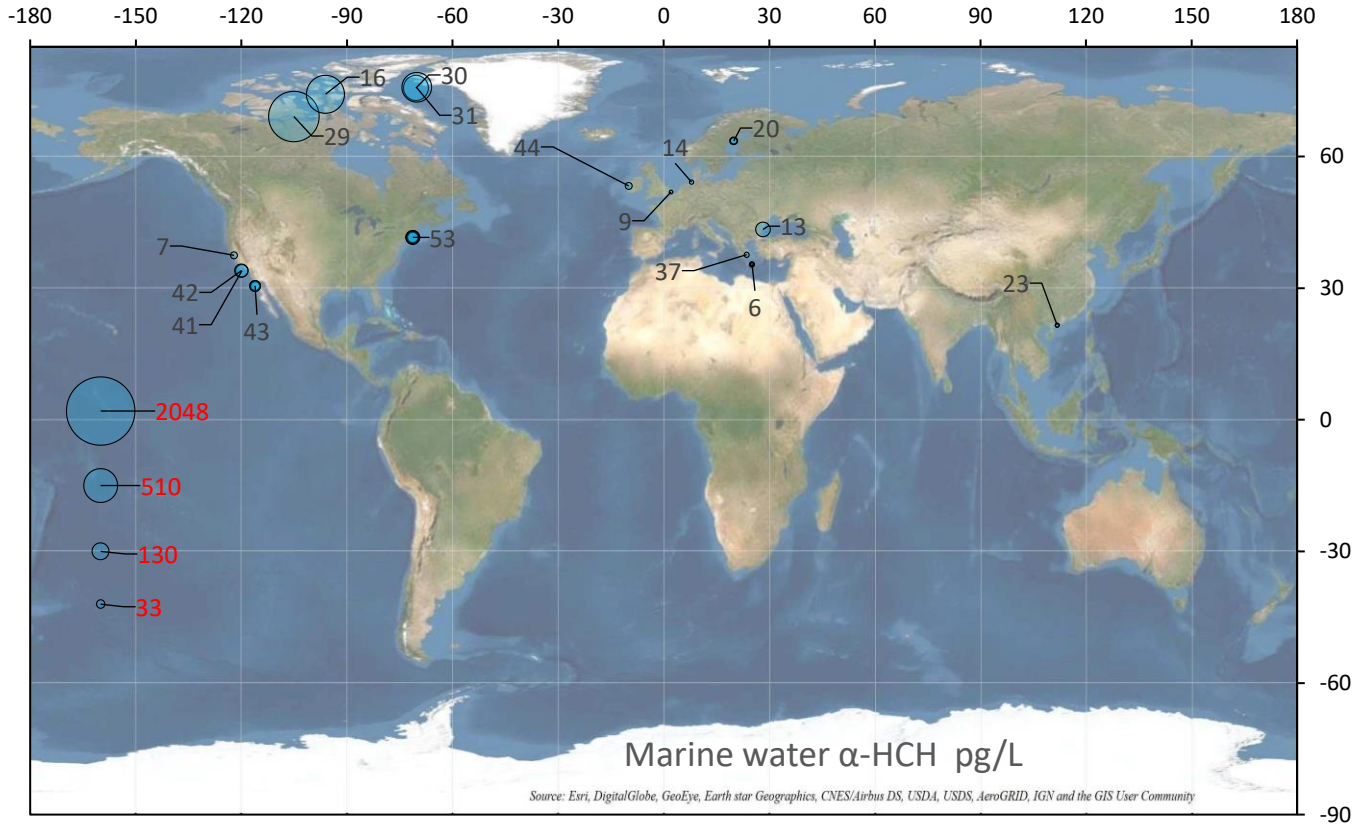
Freshwater α-HCH pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water α-HCH pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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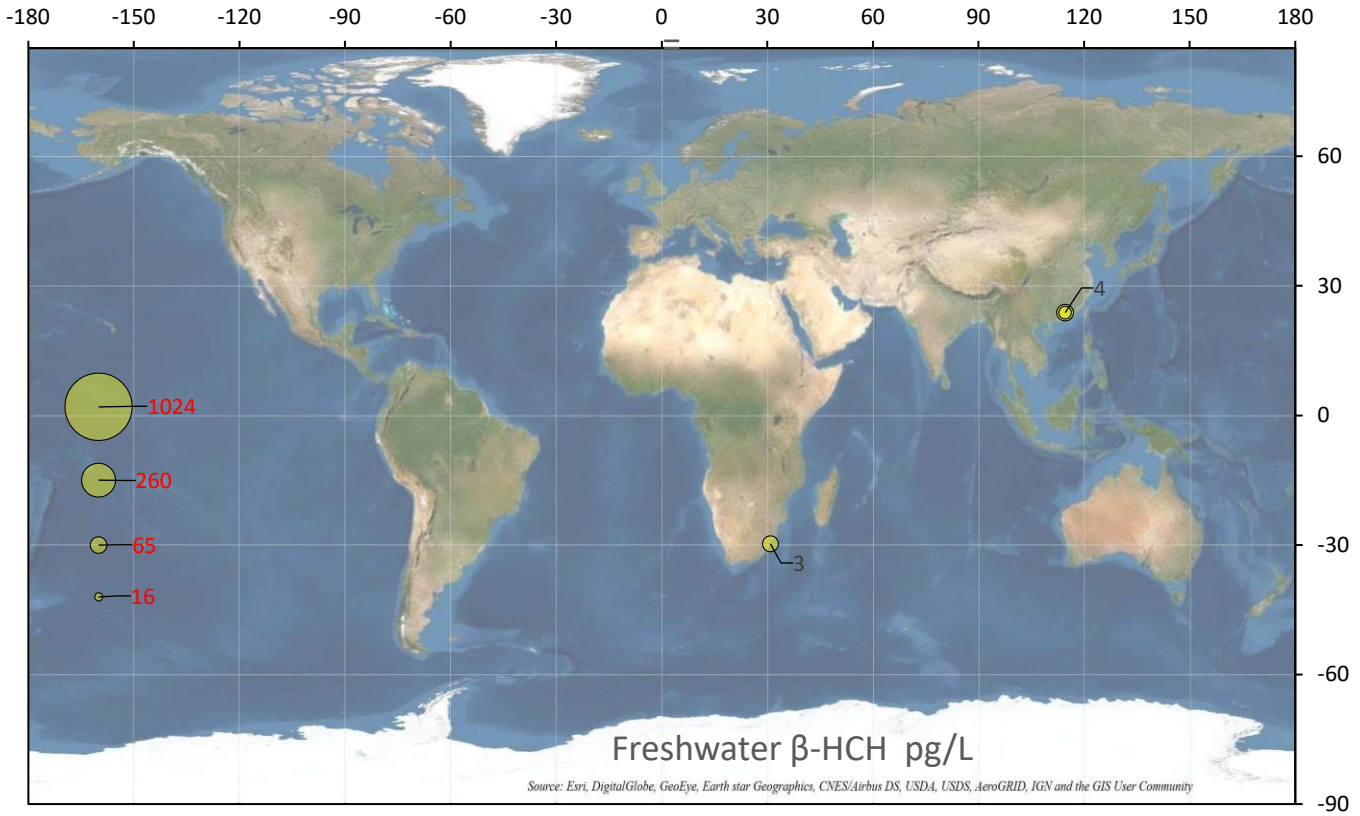
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Freshwater β-HCH pg/L
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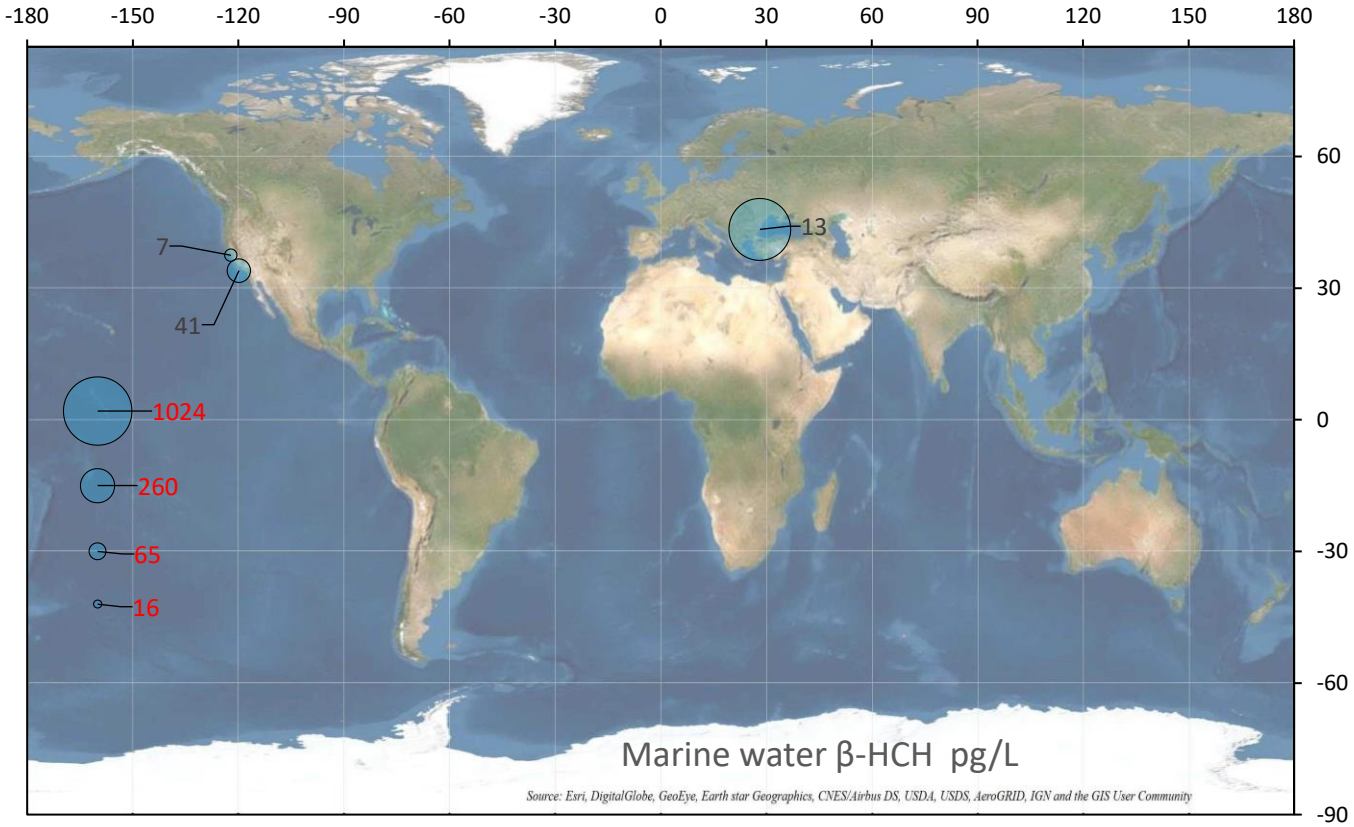
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Marine water β-HCH pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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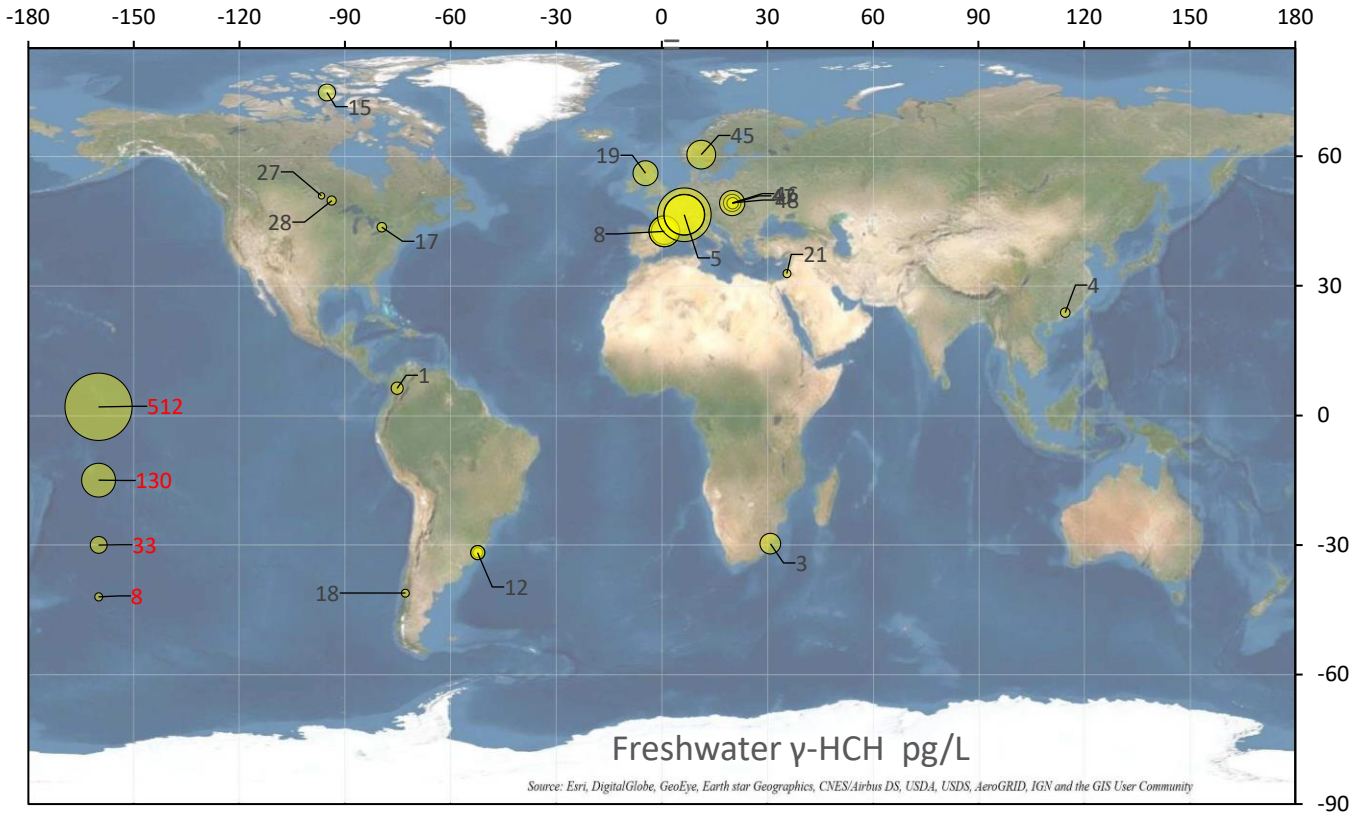
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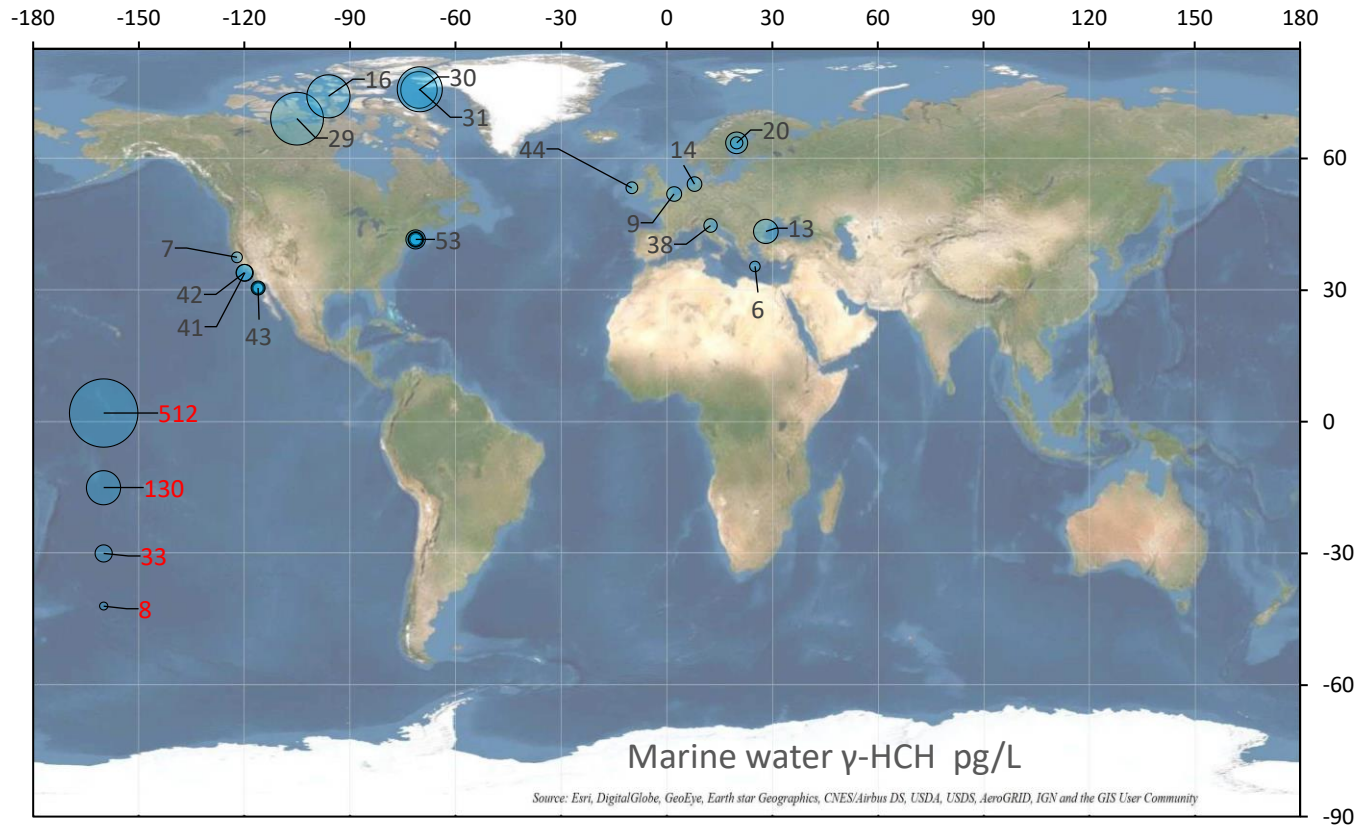
Freshwater γ-HCH pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water γ-HCH pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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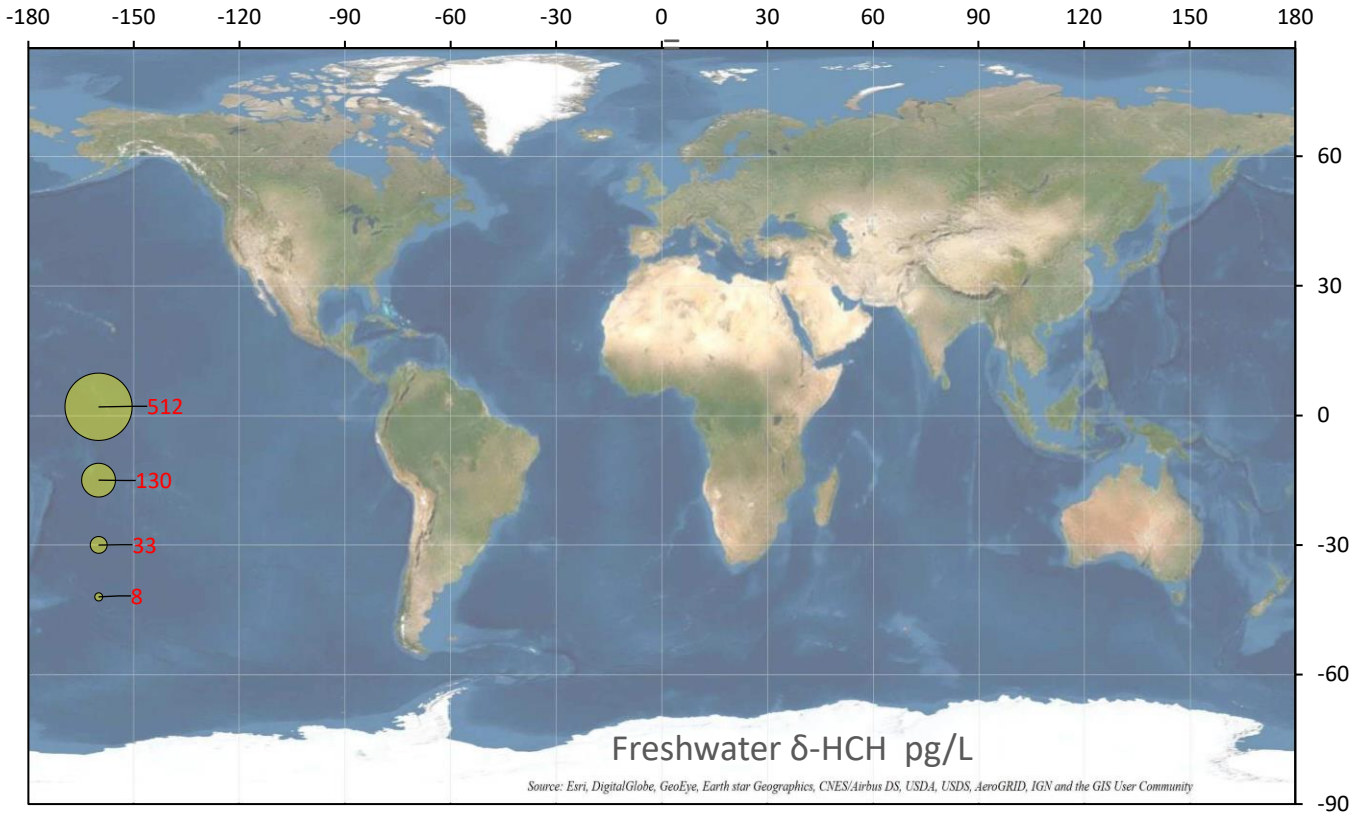
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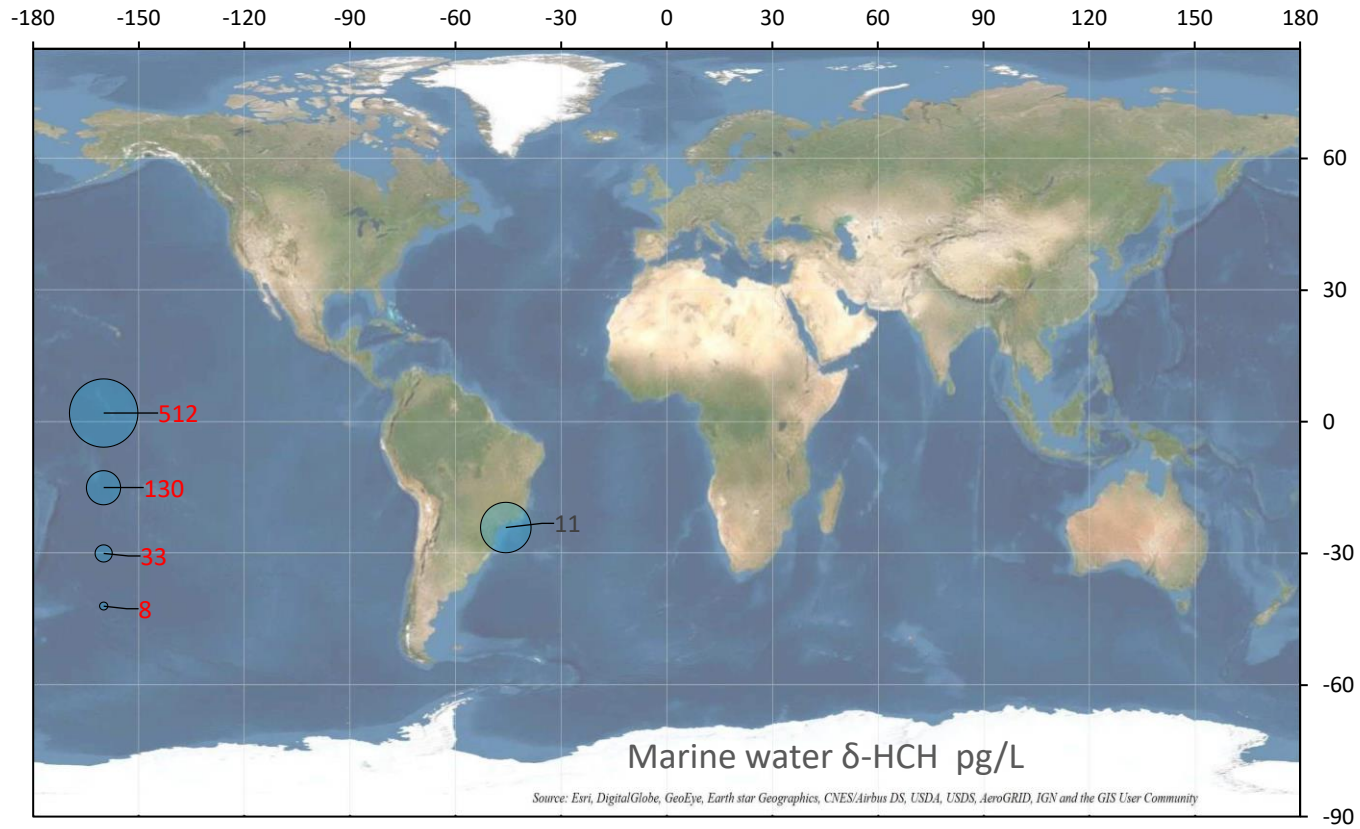
Freshwater δ-HCH pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water δ-HCH pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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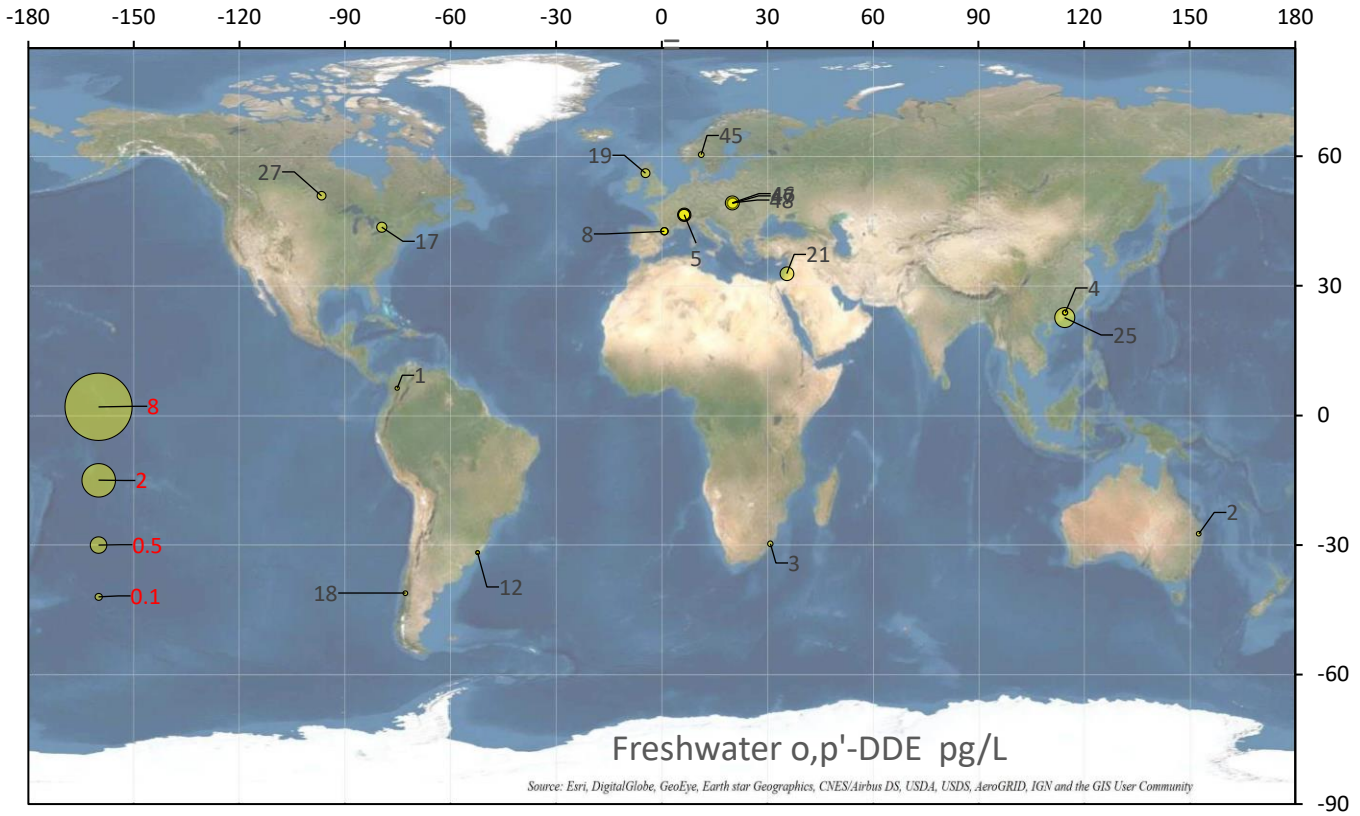
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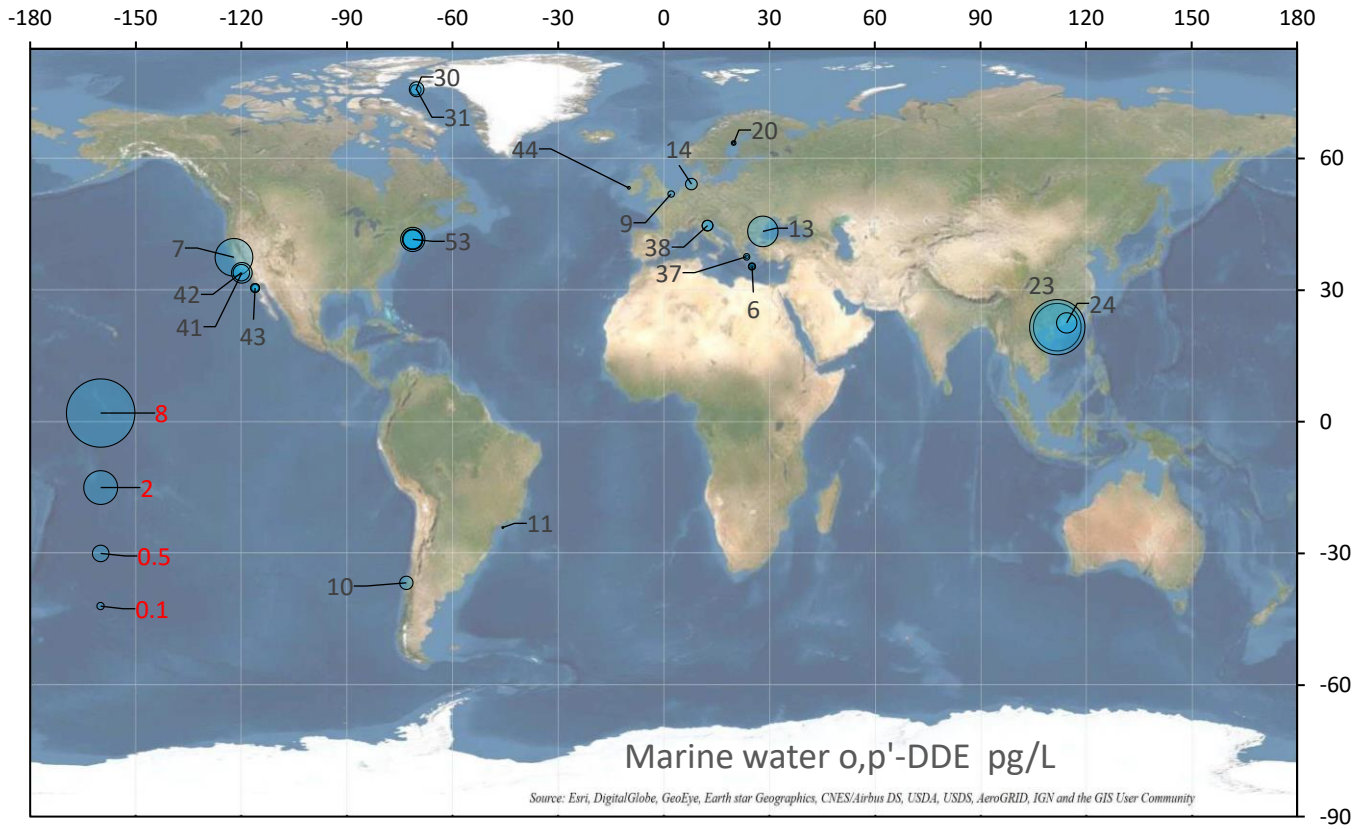
Freshwater o,p'-DDE pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water o,p'-DDE pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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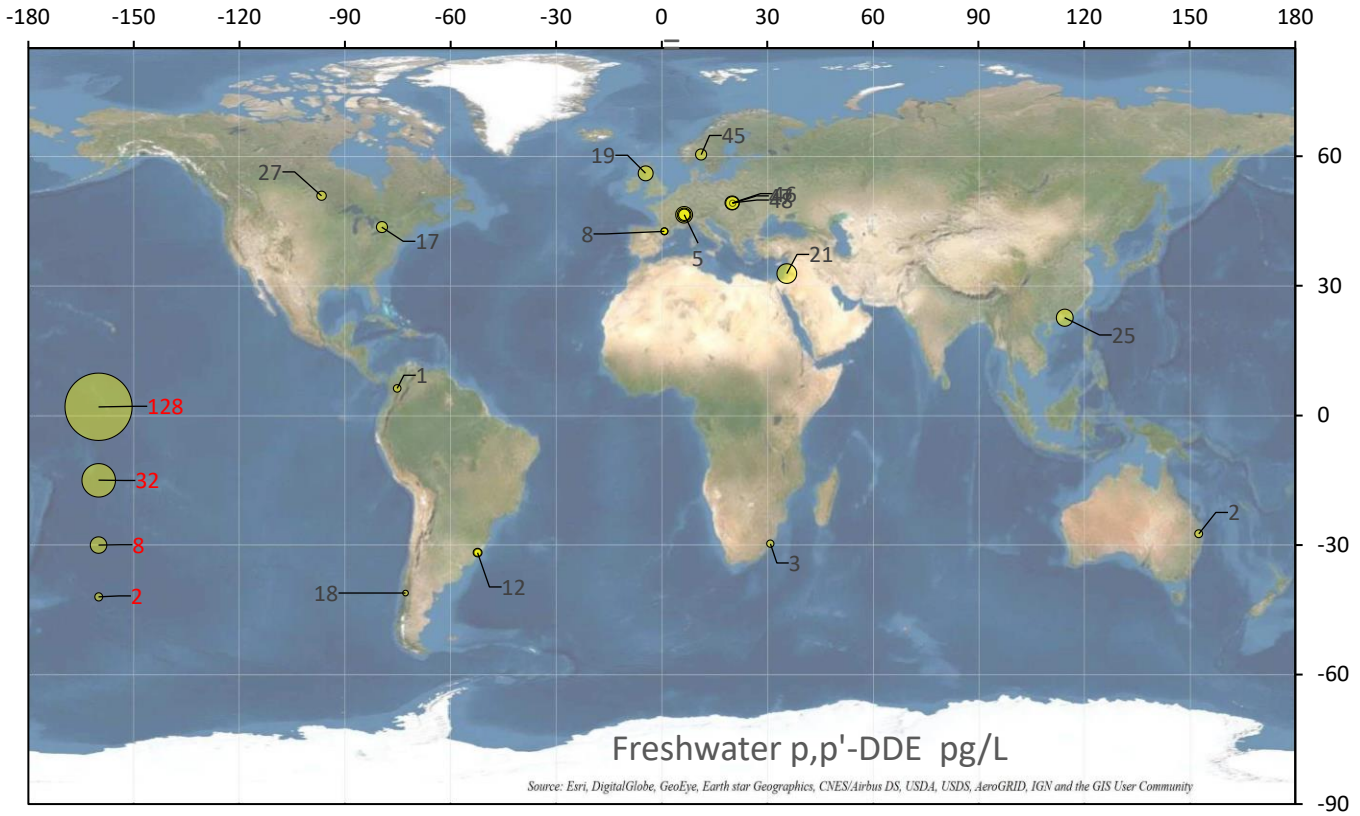
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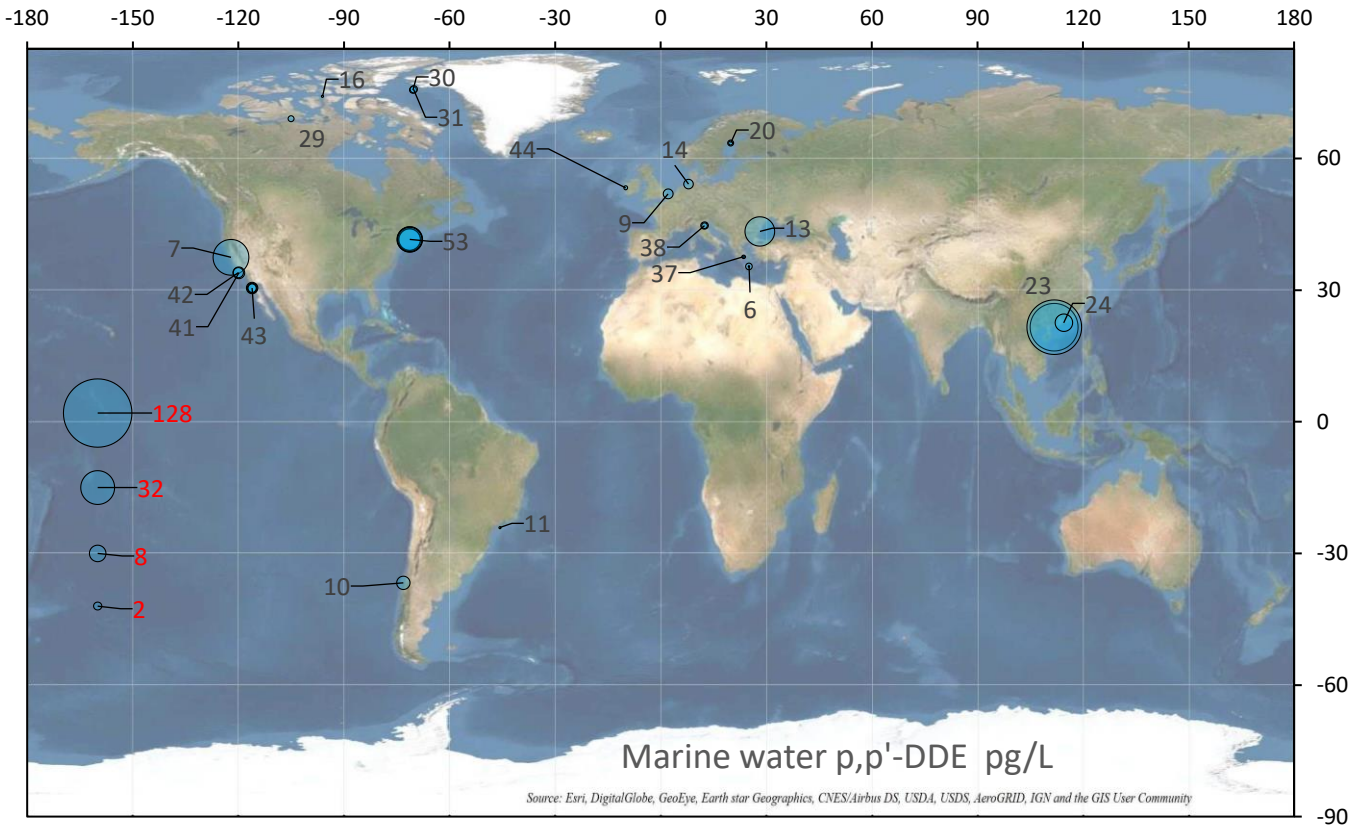
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water p,p'-DDE pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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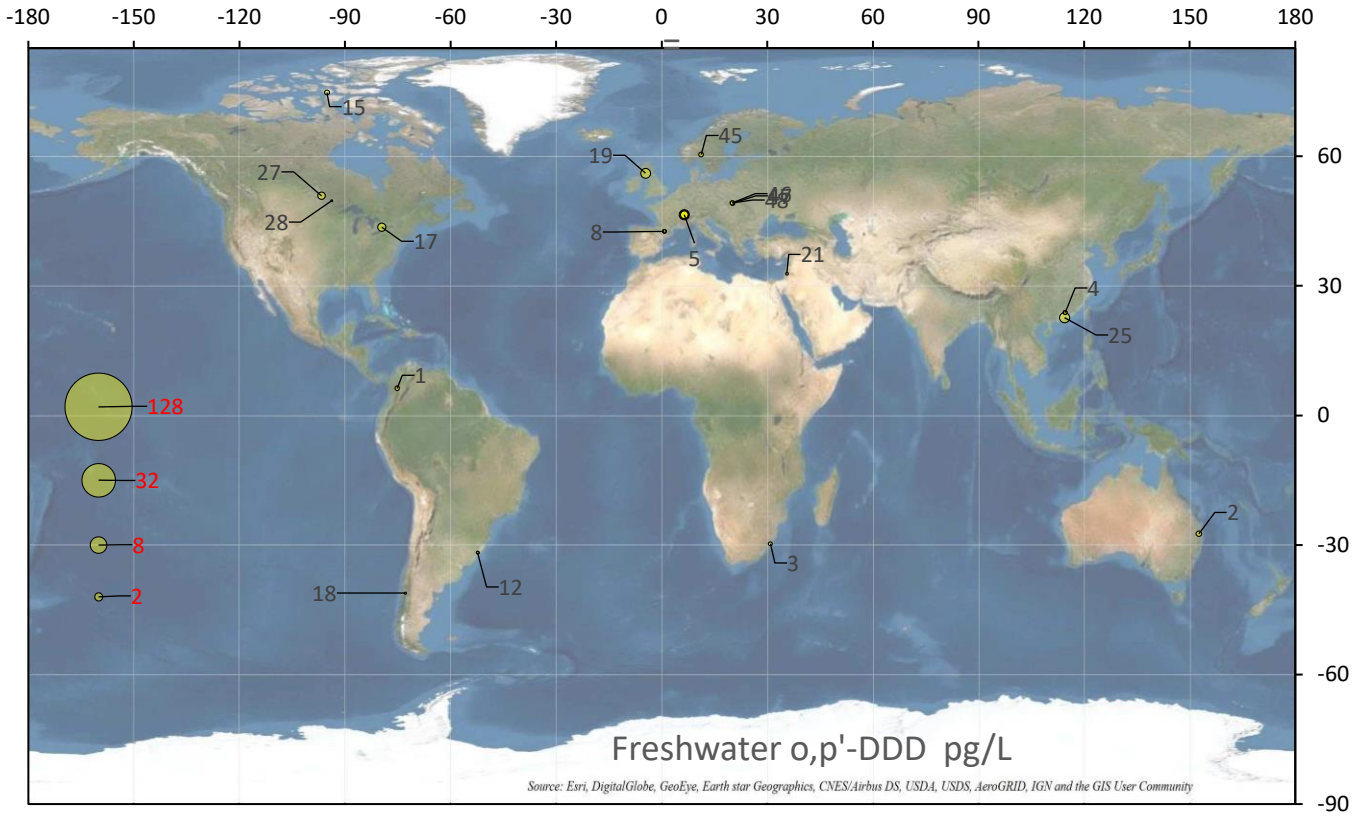
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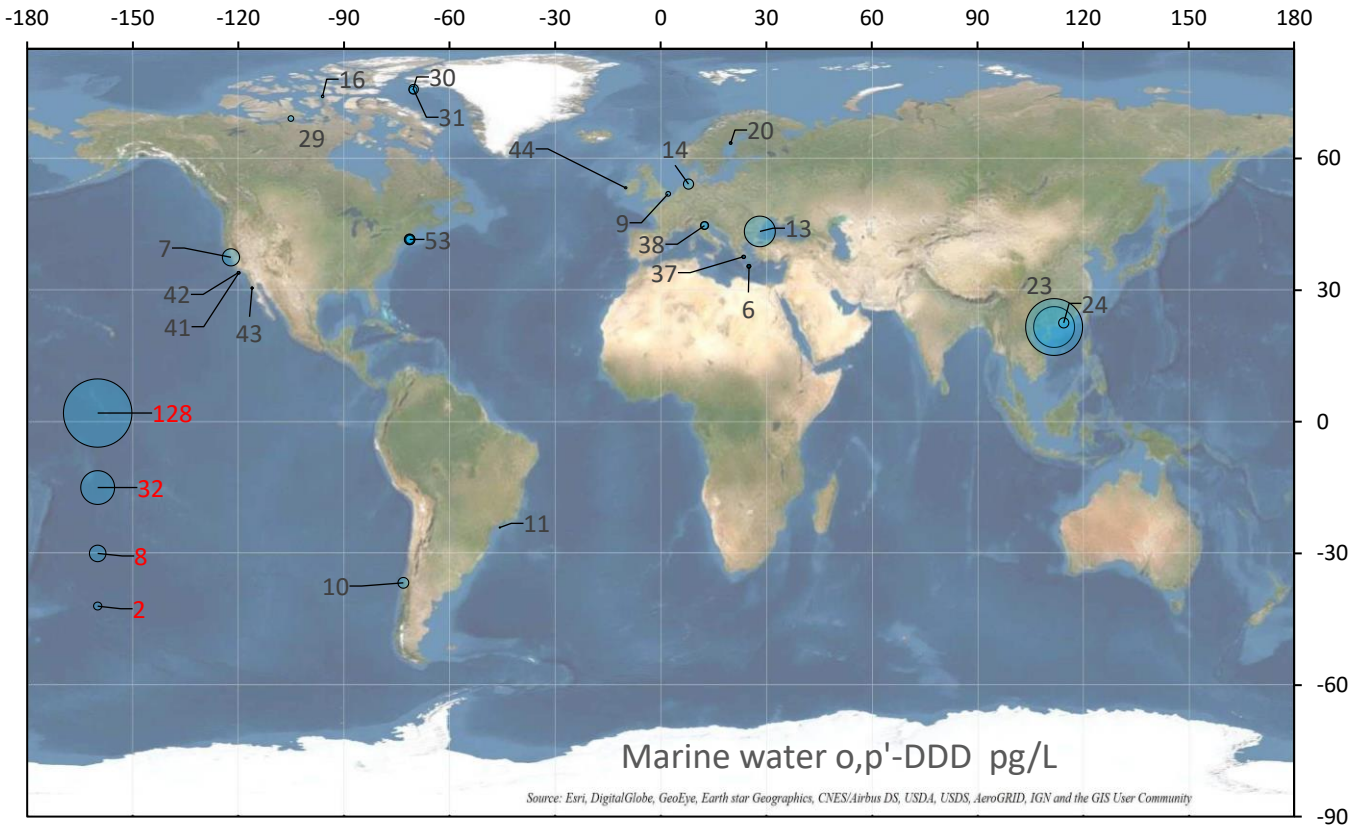
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Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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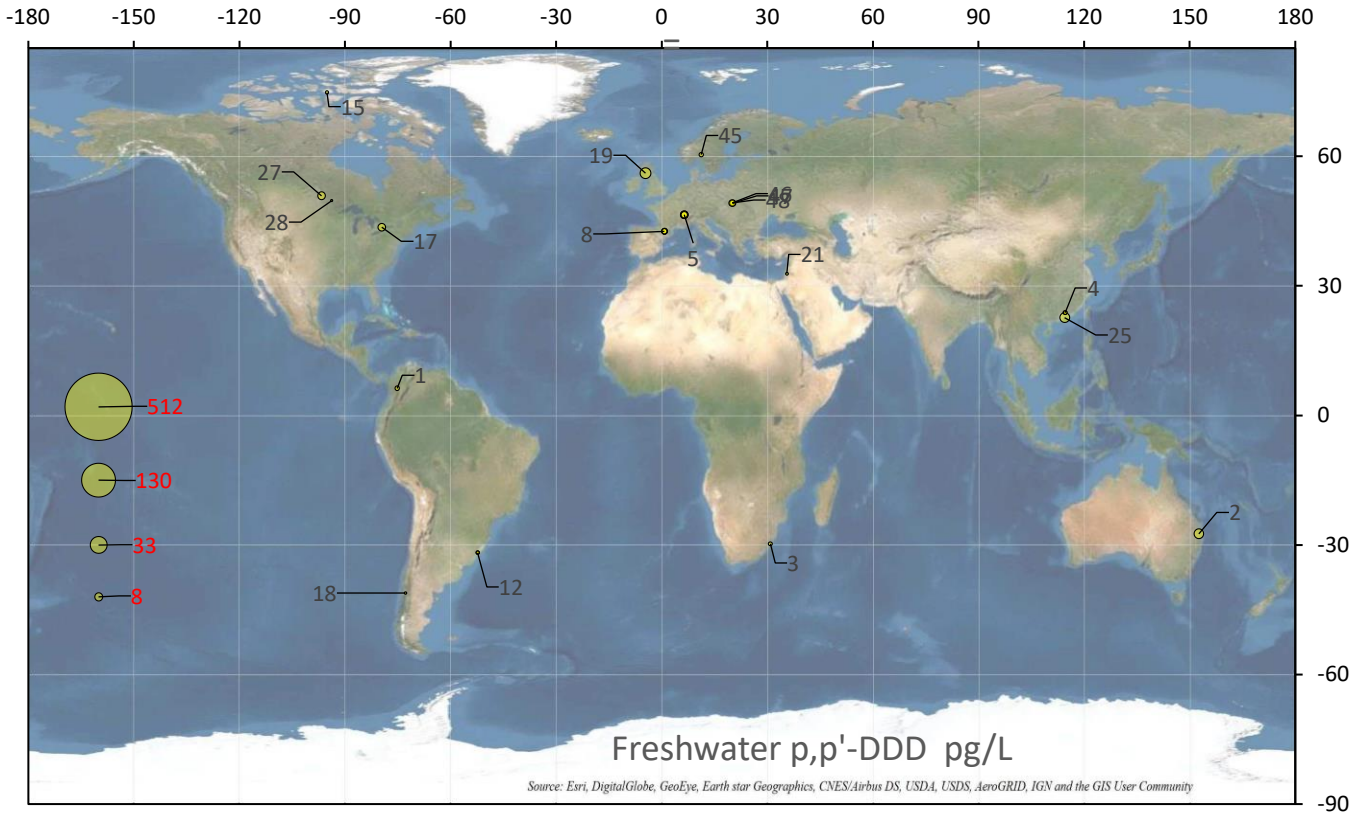
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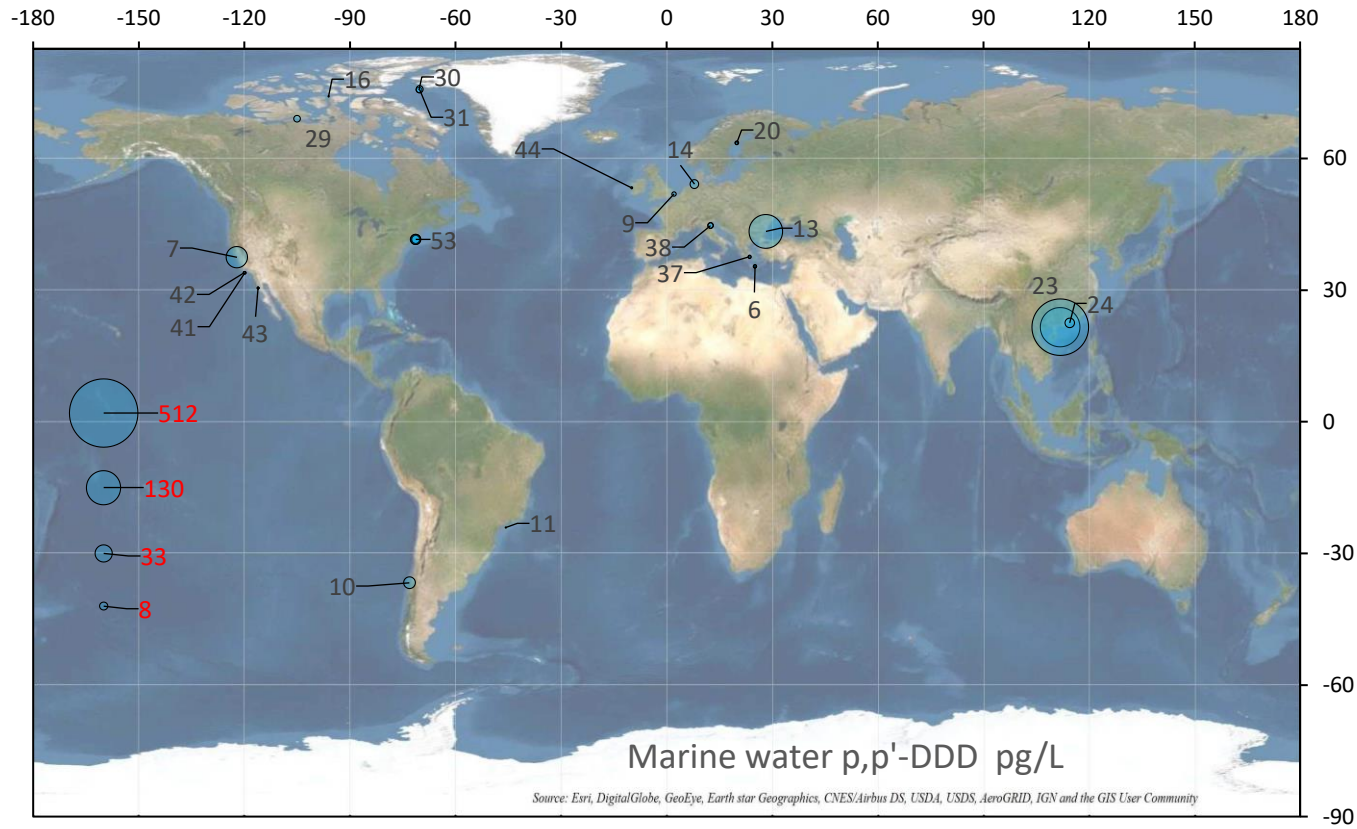
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water p,p'-DDD pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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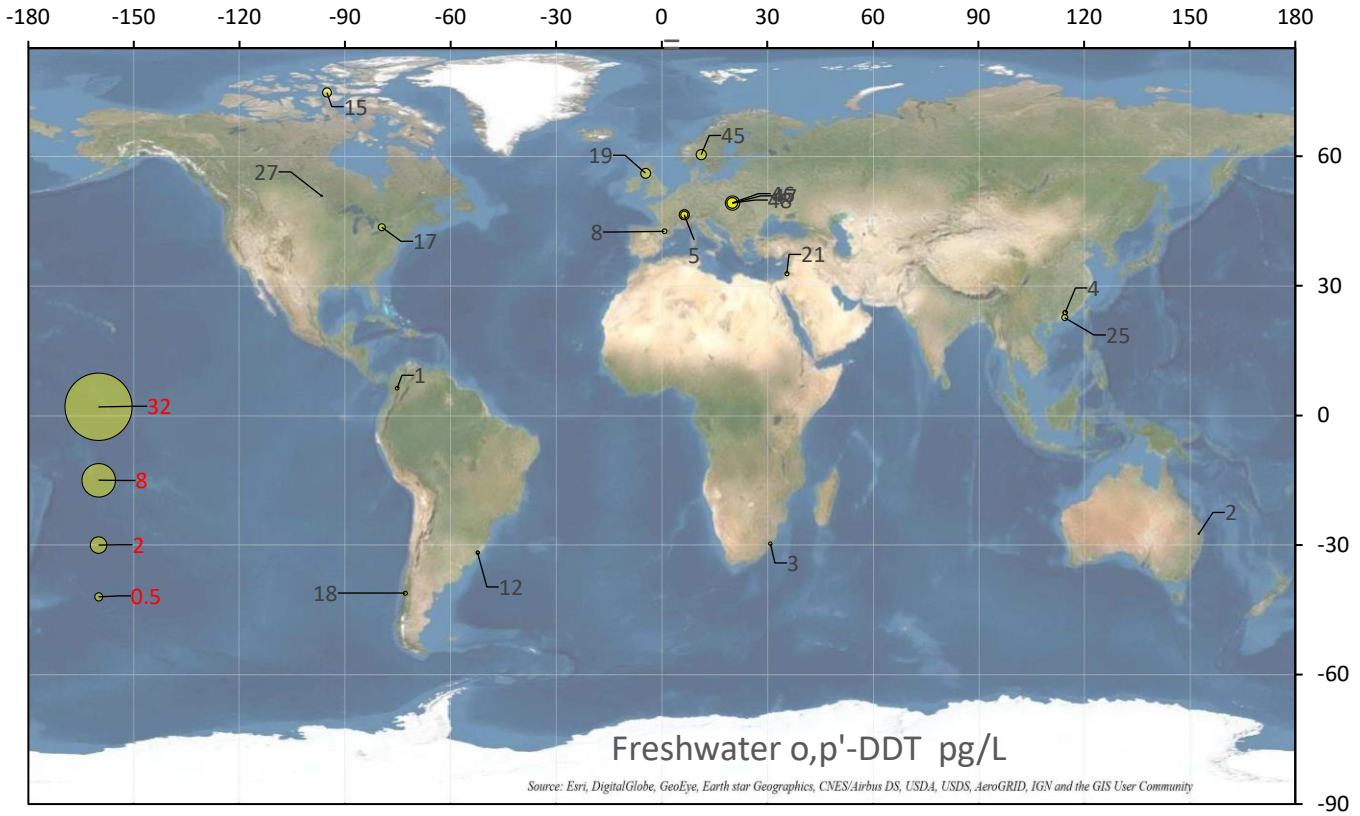
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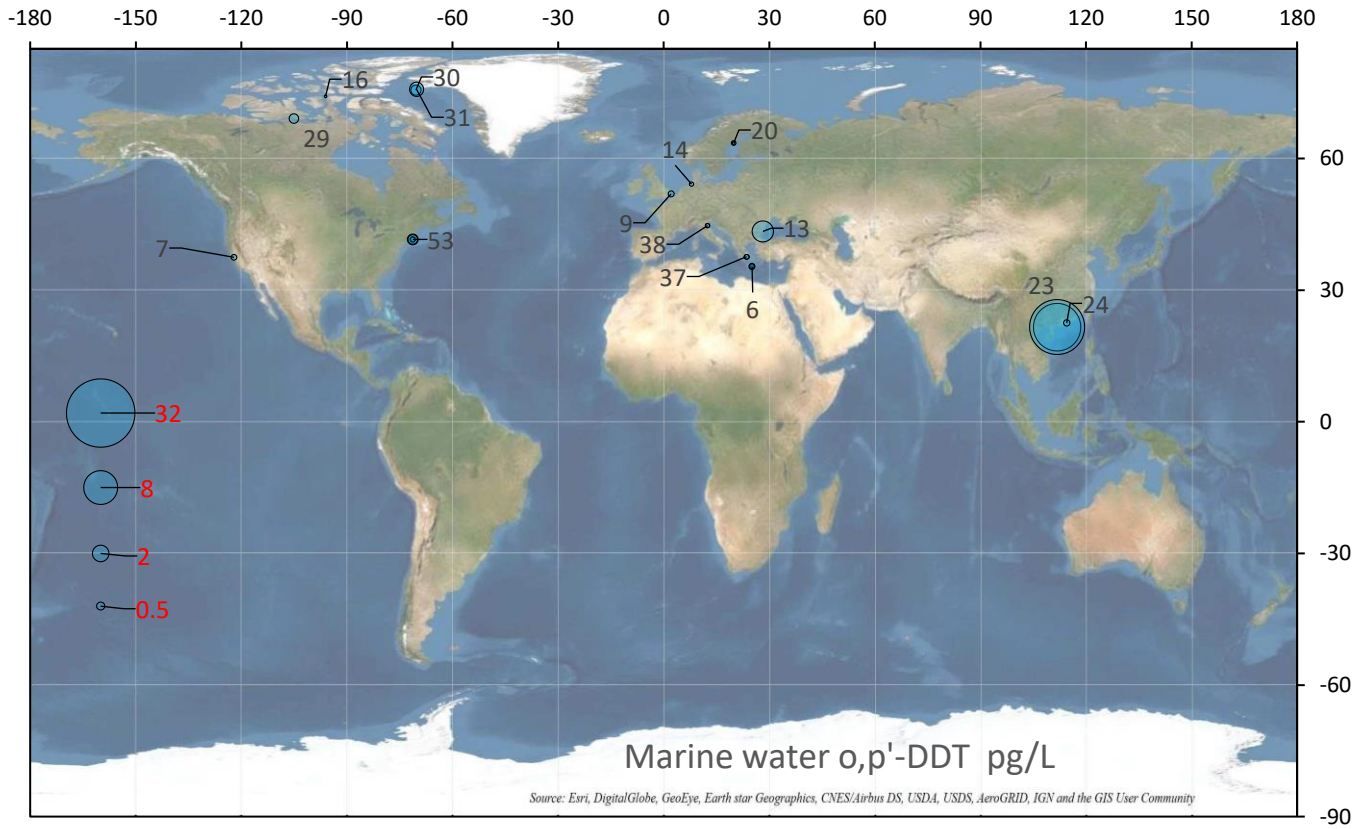
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water o,p'-DDT pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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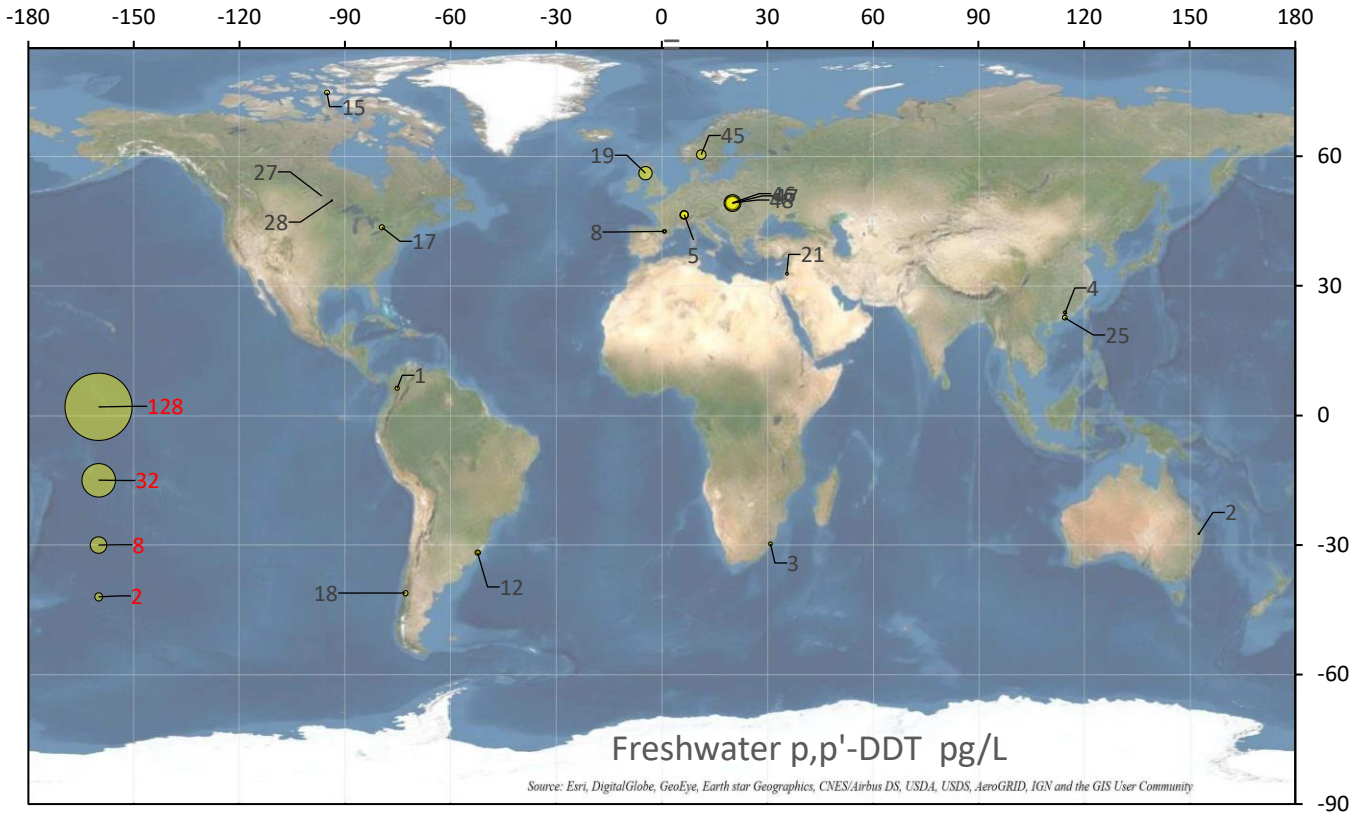
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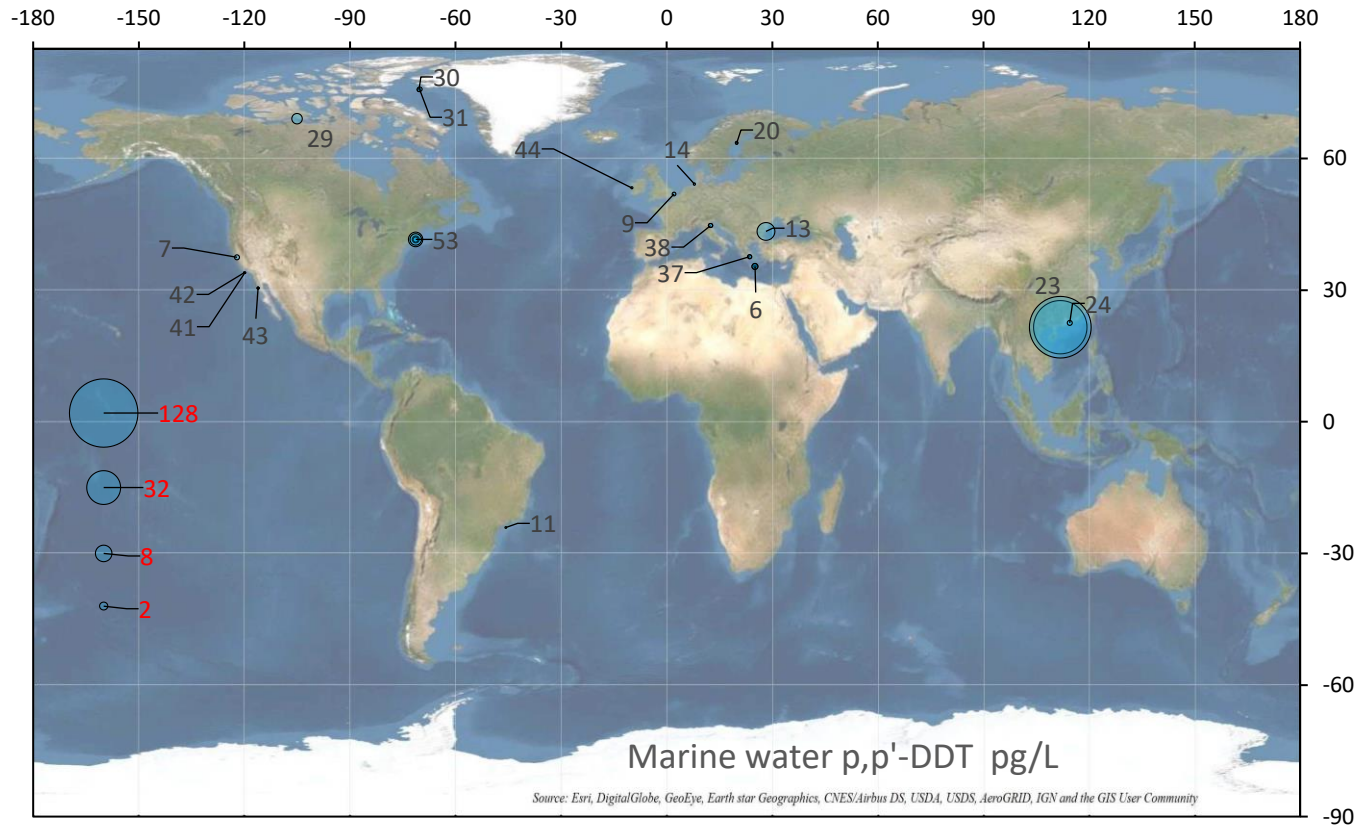
Freshwater p,p'-DDT pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water p,p'-DDT pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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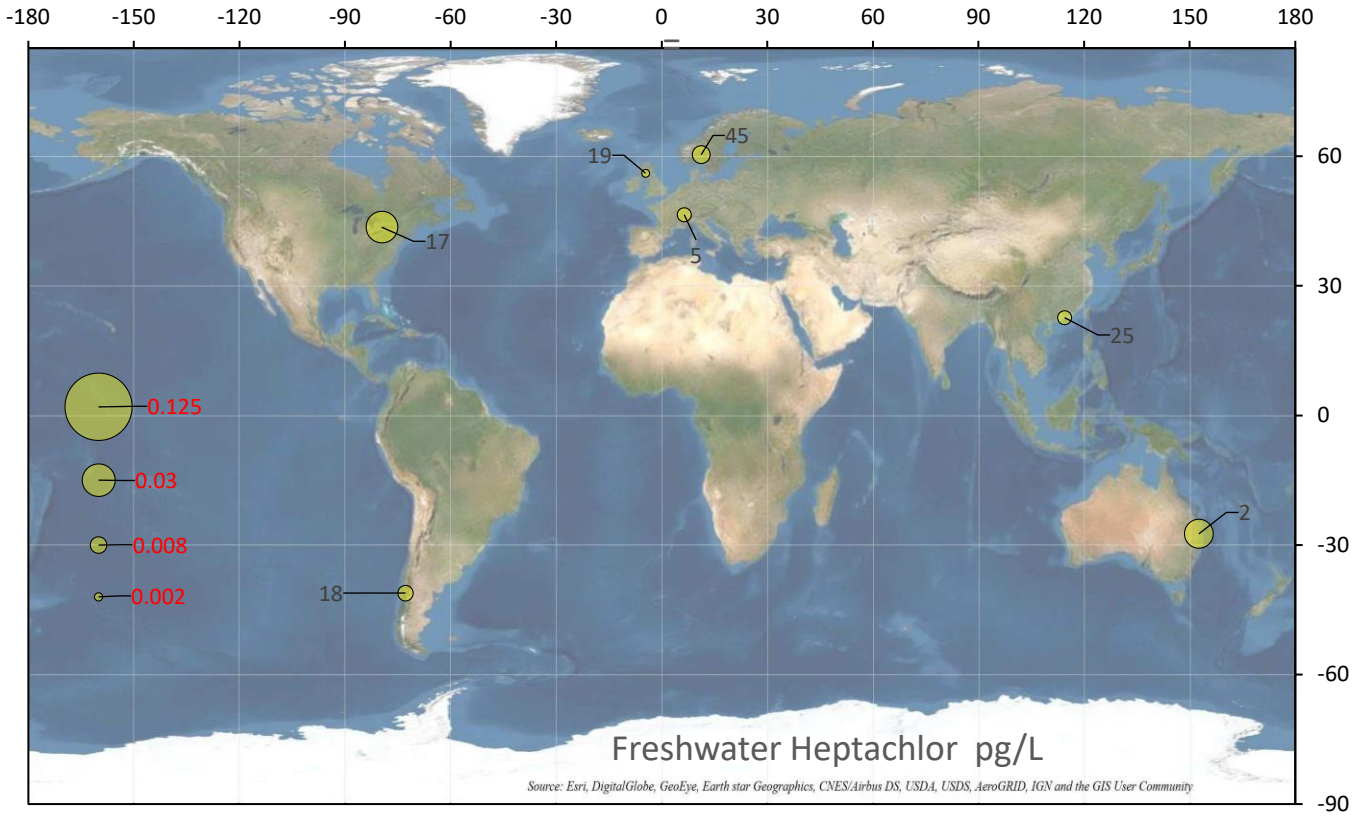
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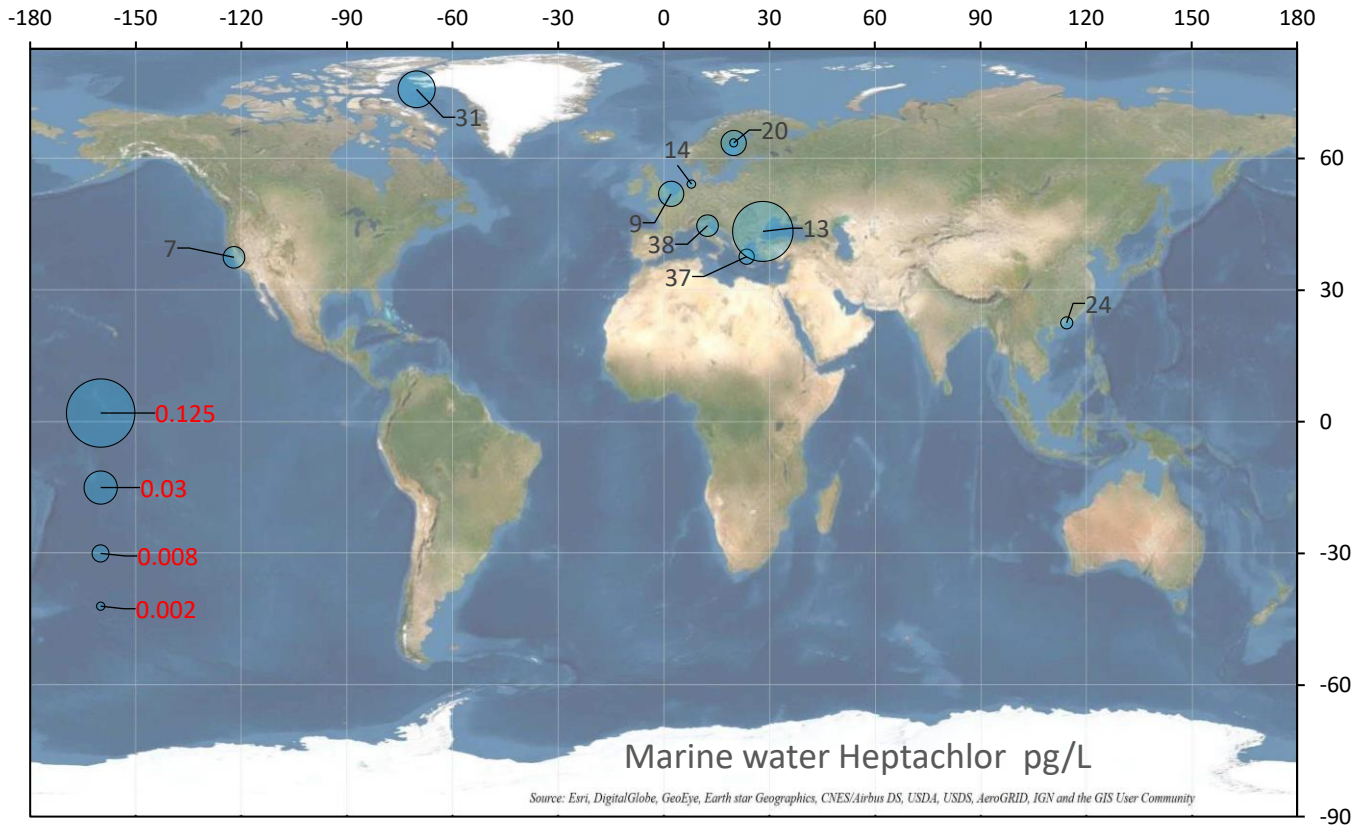
Freshwater Heptachlor pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water Heptachlor pg/L
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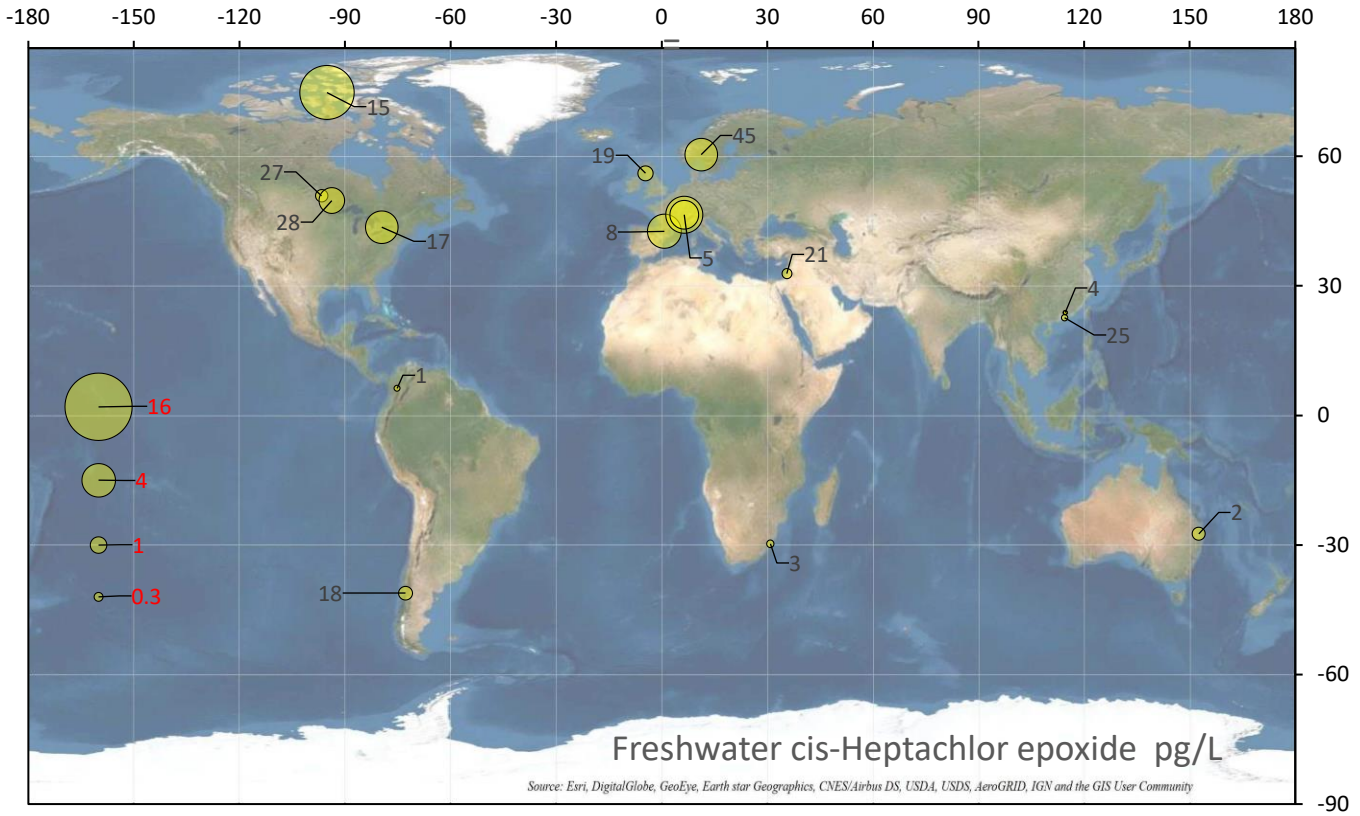
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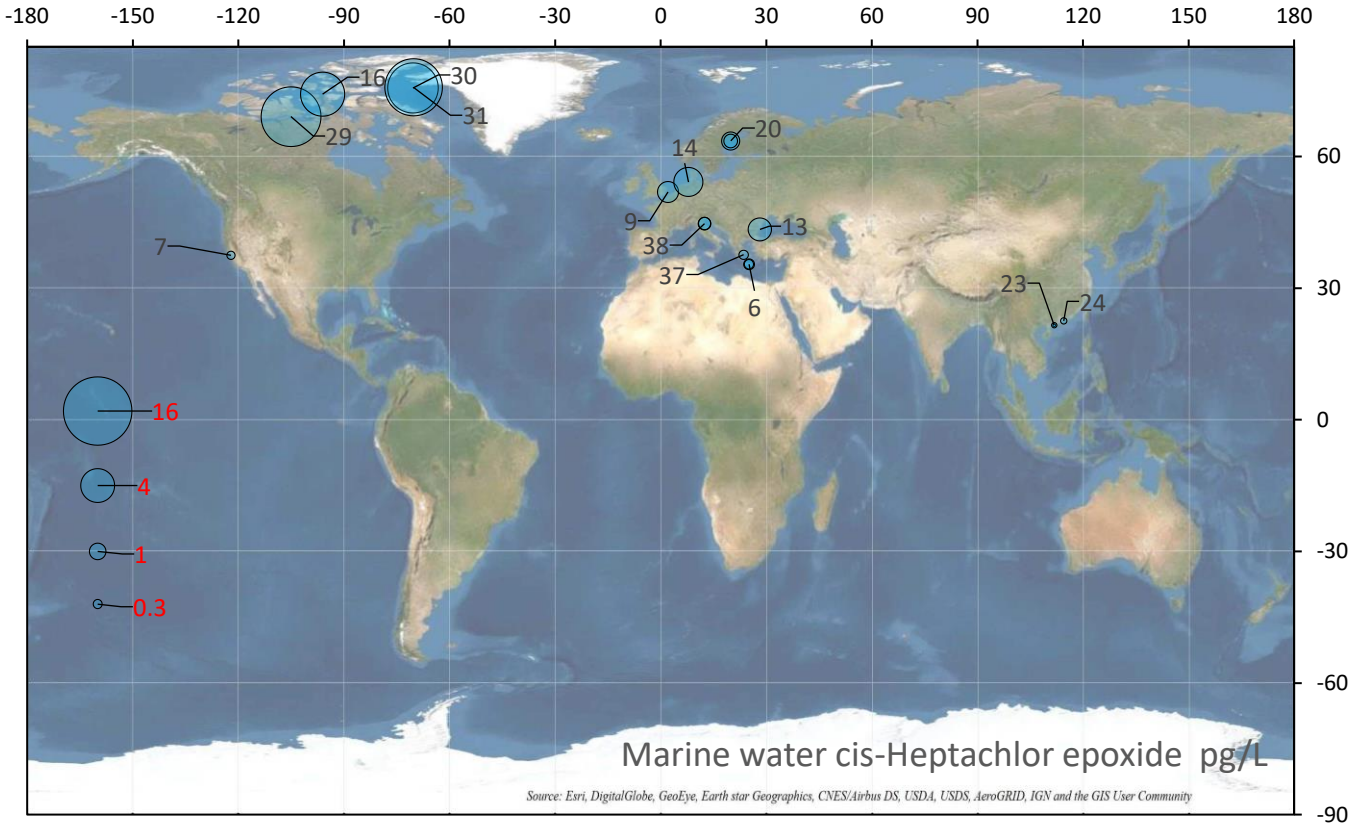
Freshwater cis-Heptachlor epoxide pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water cis-Heptachlor epoxide pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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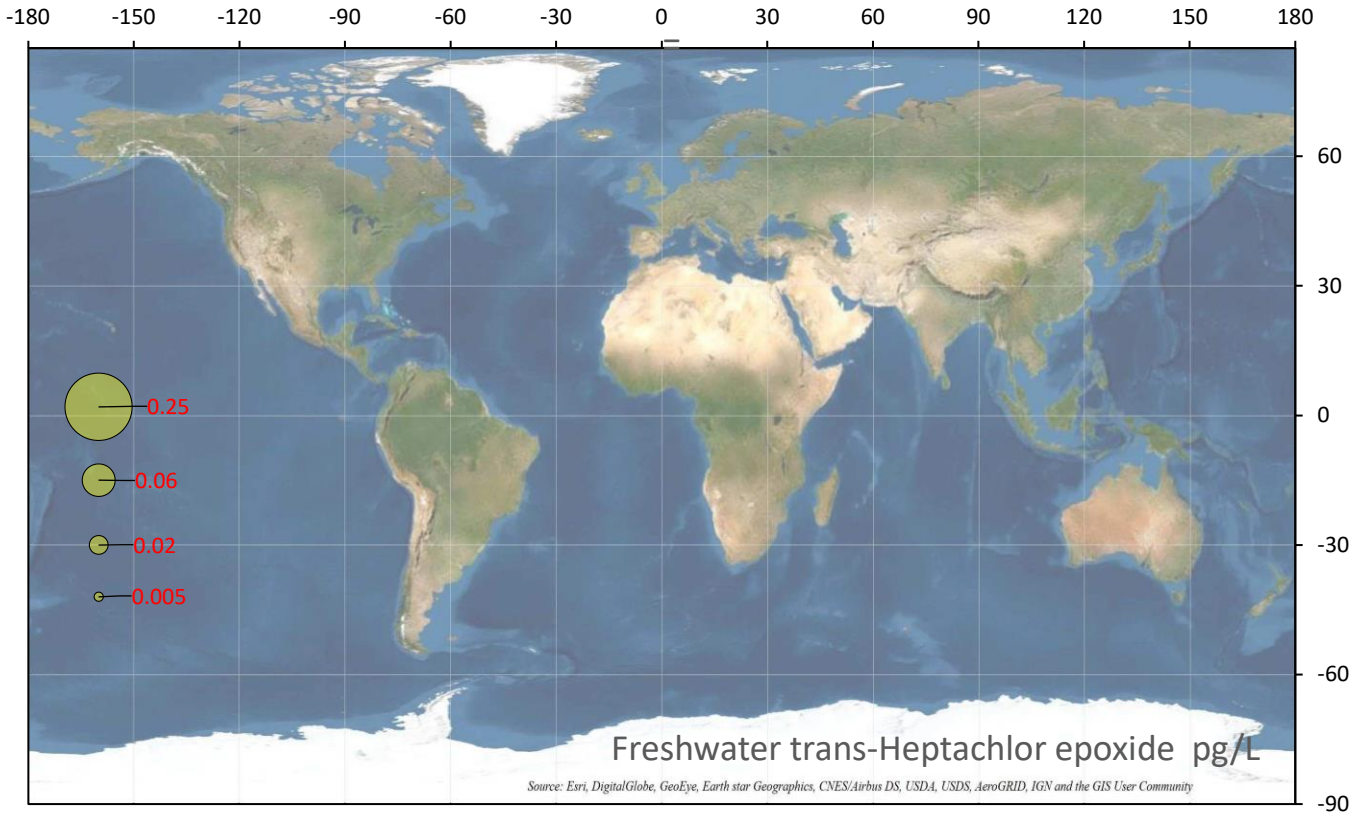
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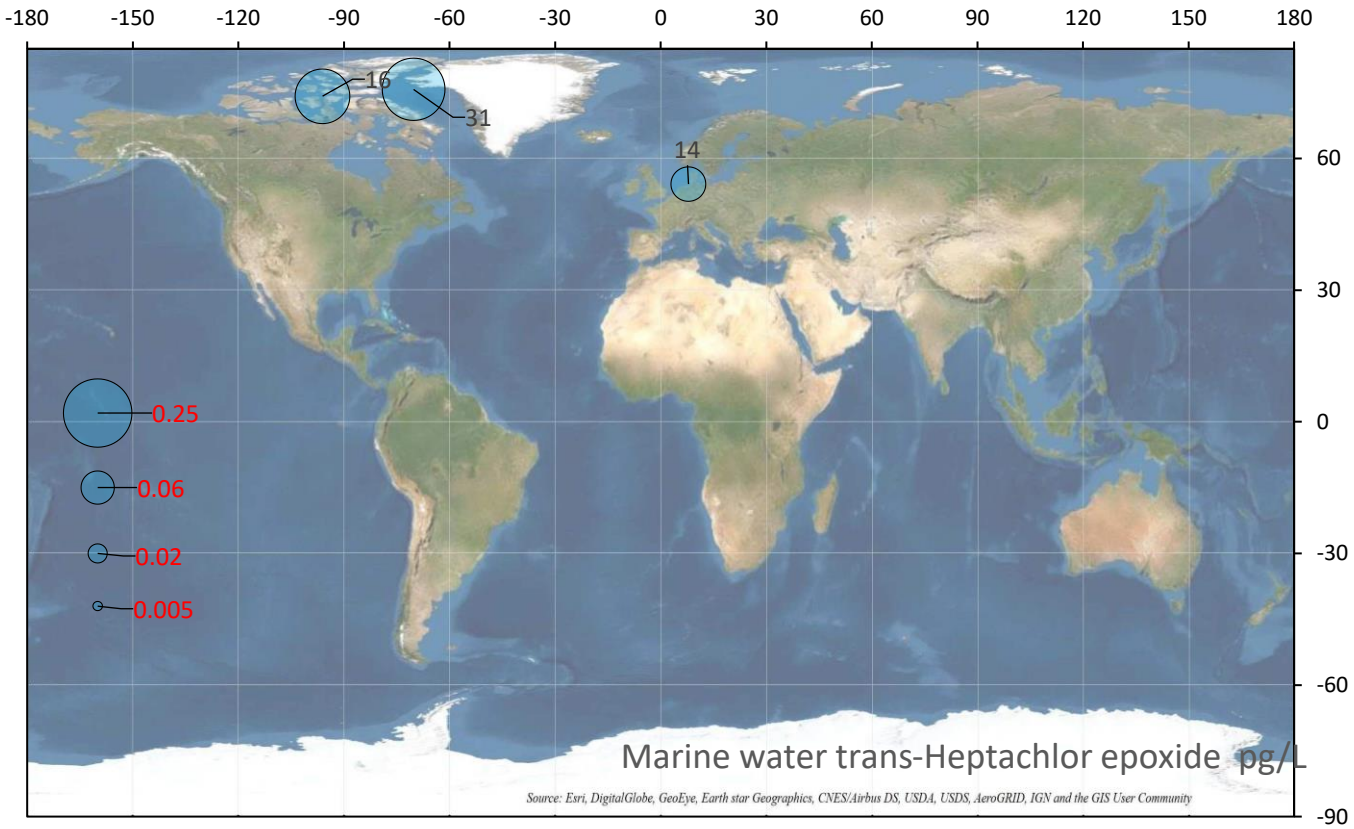
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water trans-Heptachlor epoxide pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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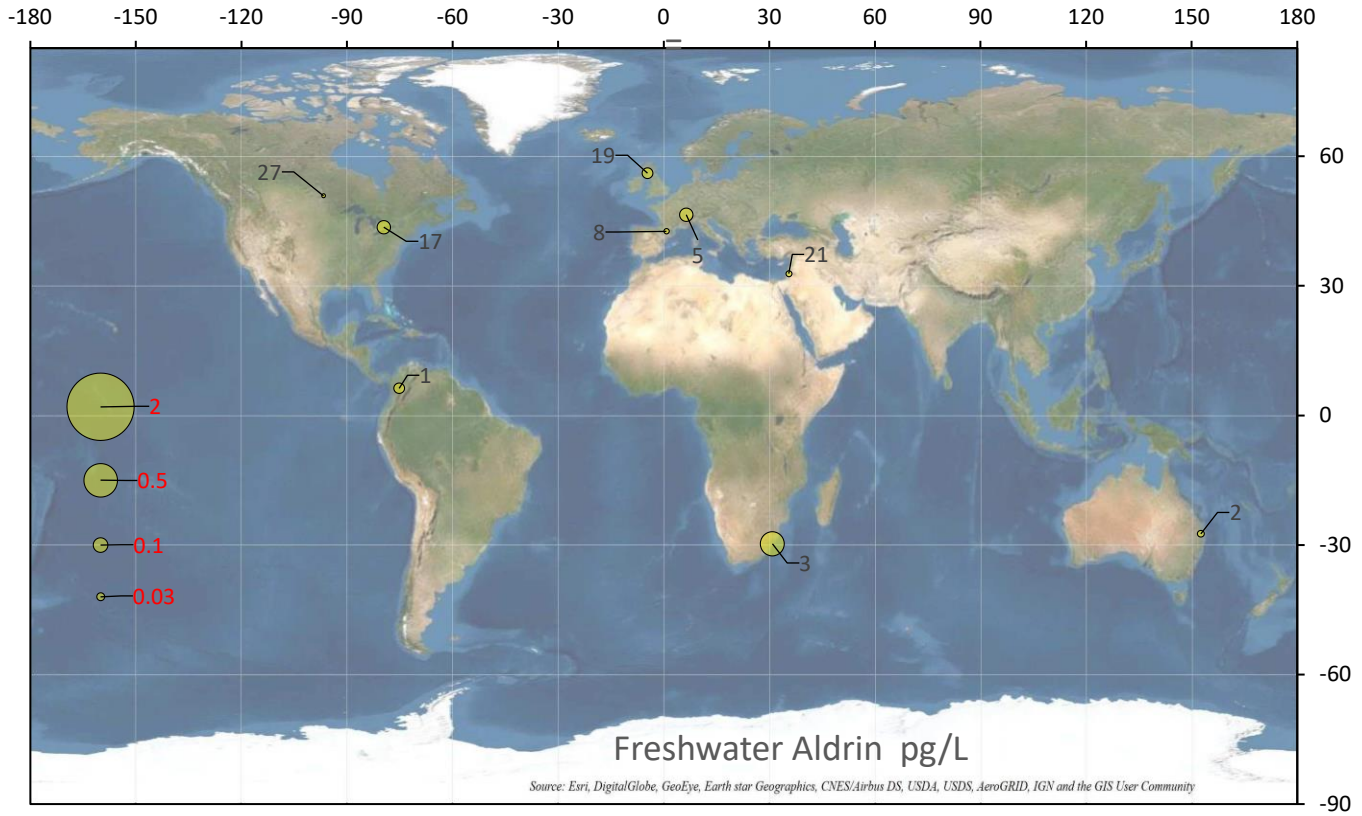
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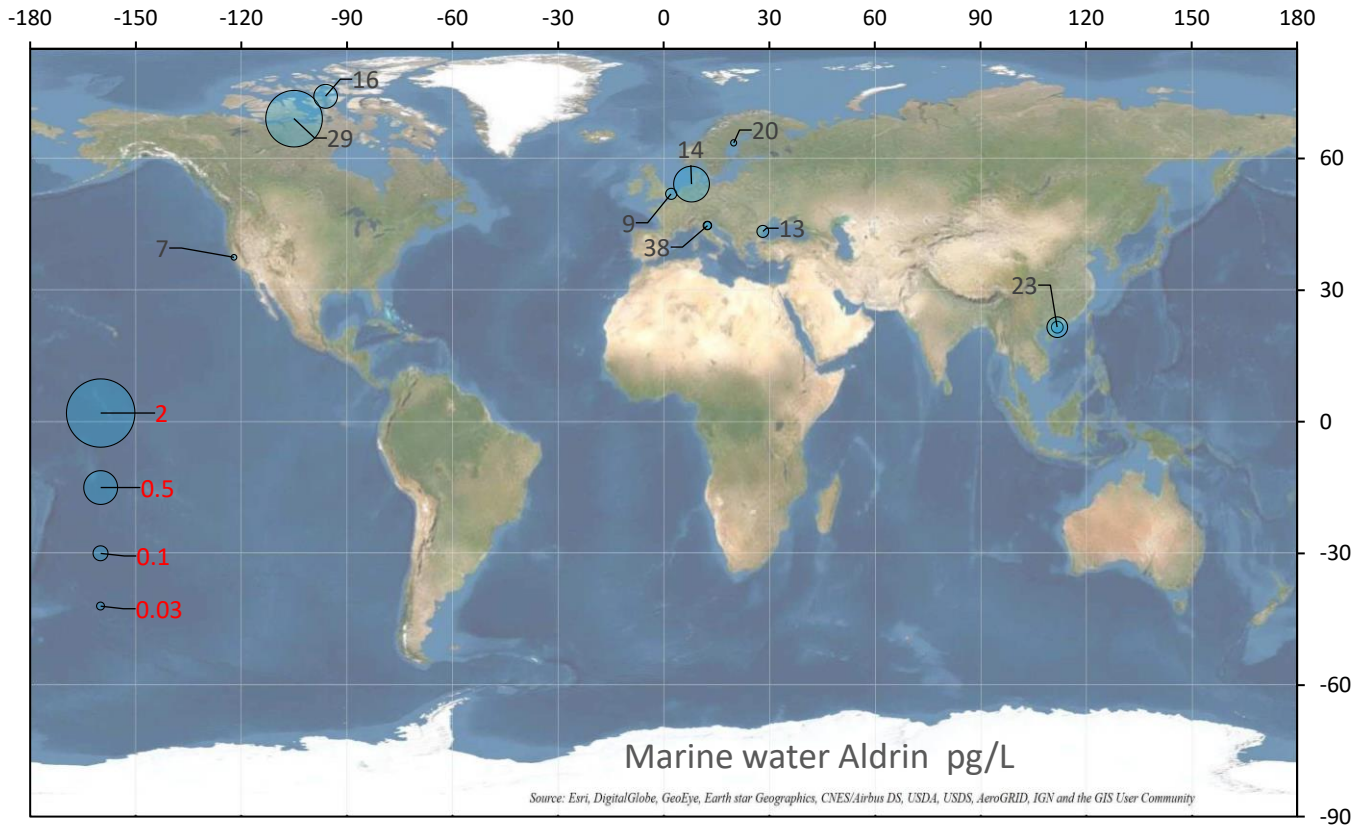
Freshwater Aldrin pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water Aldrin pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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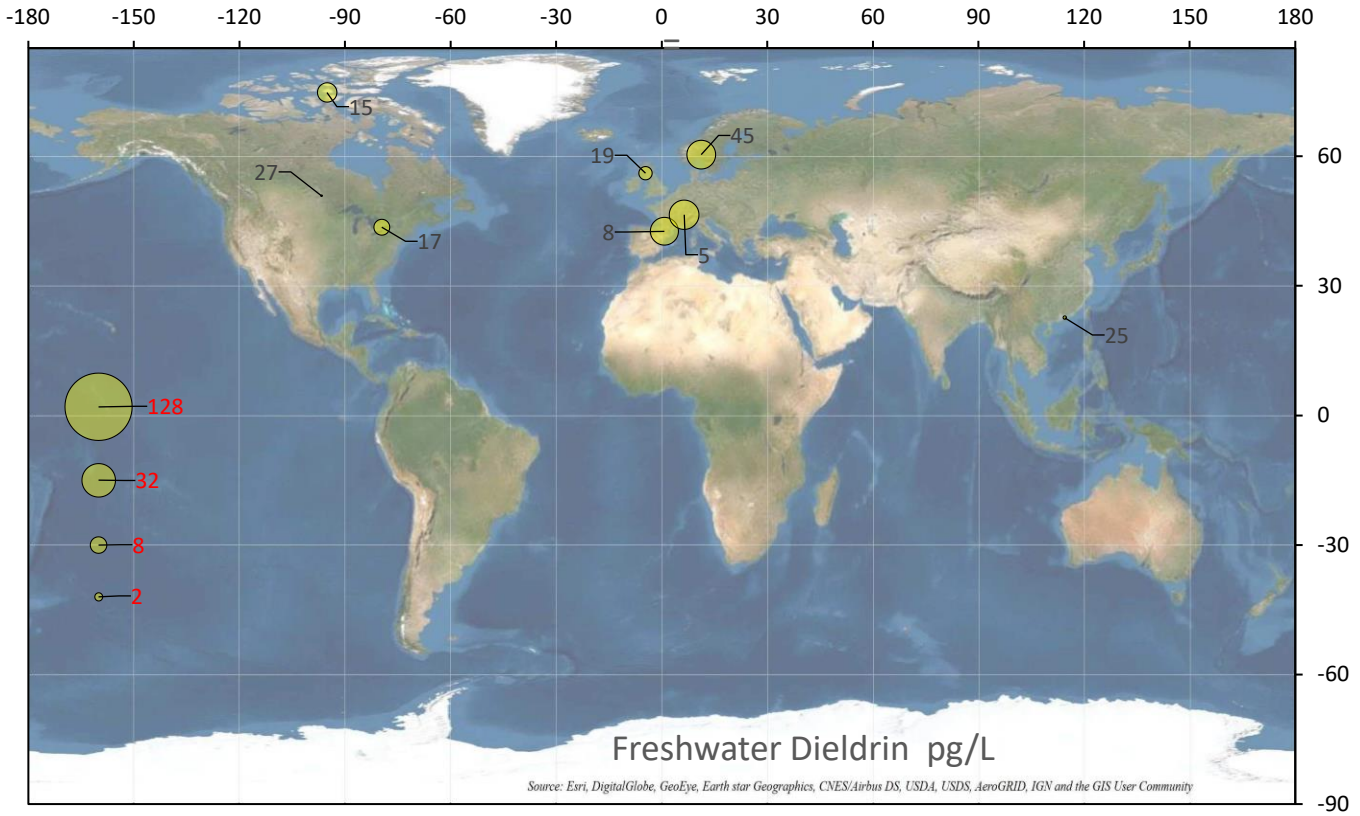
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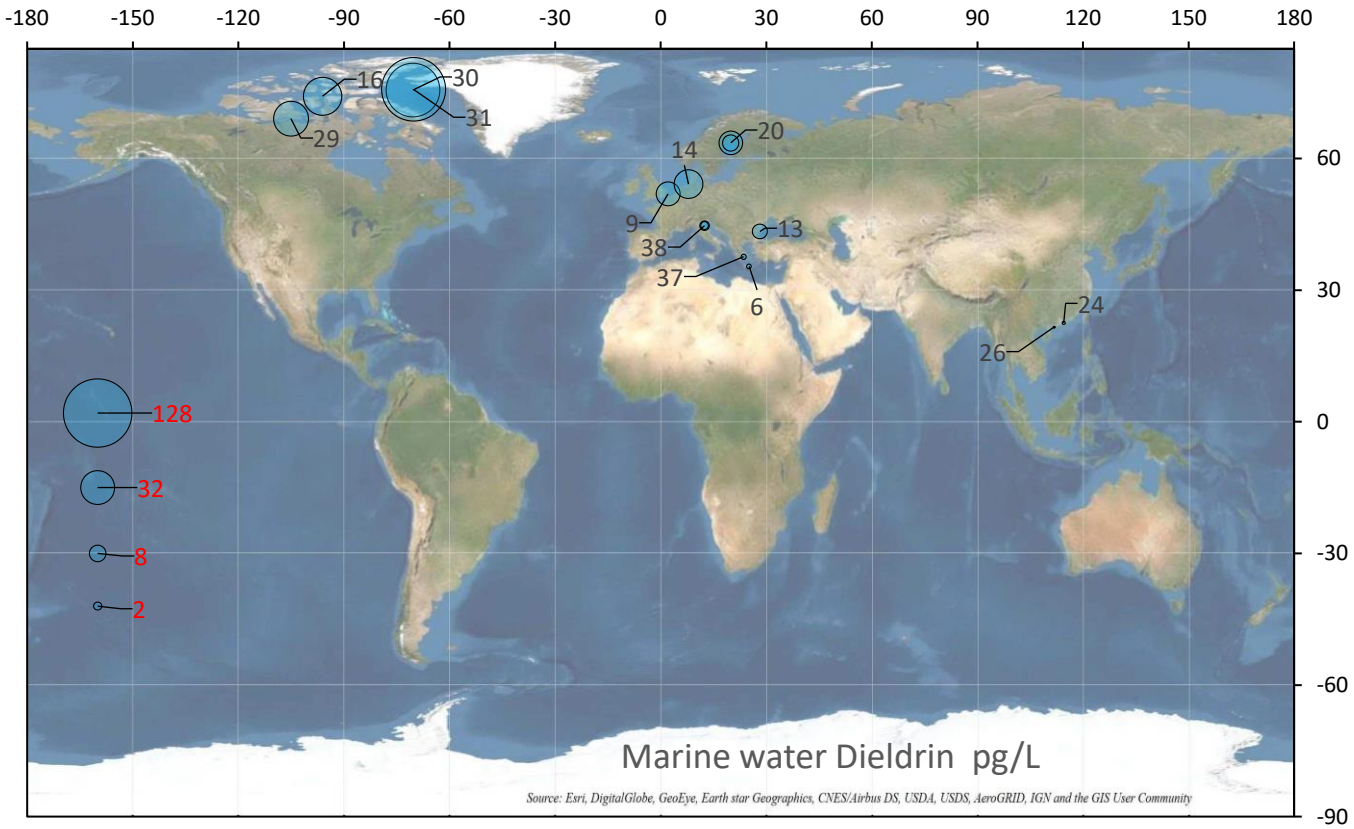
Freshwater Dieldrin pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water Dieldrin pg/L
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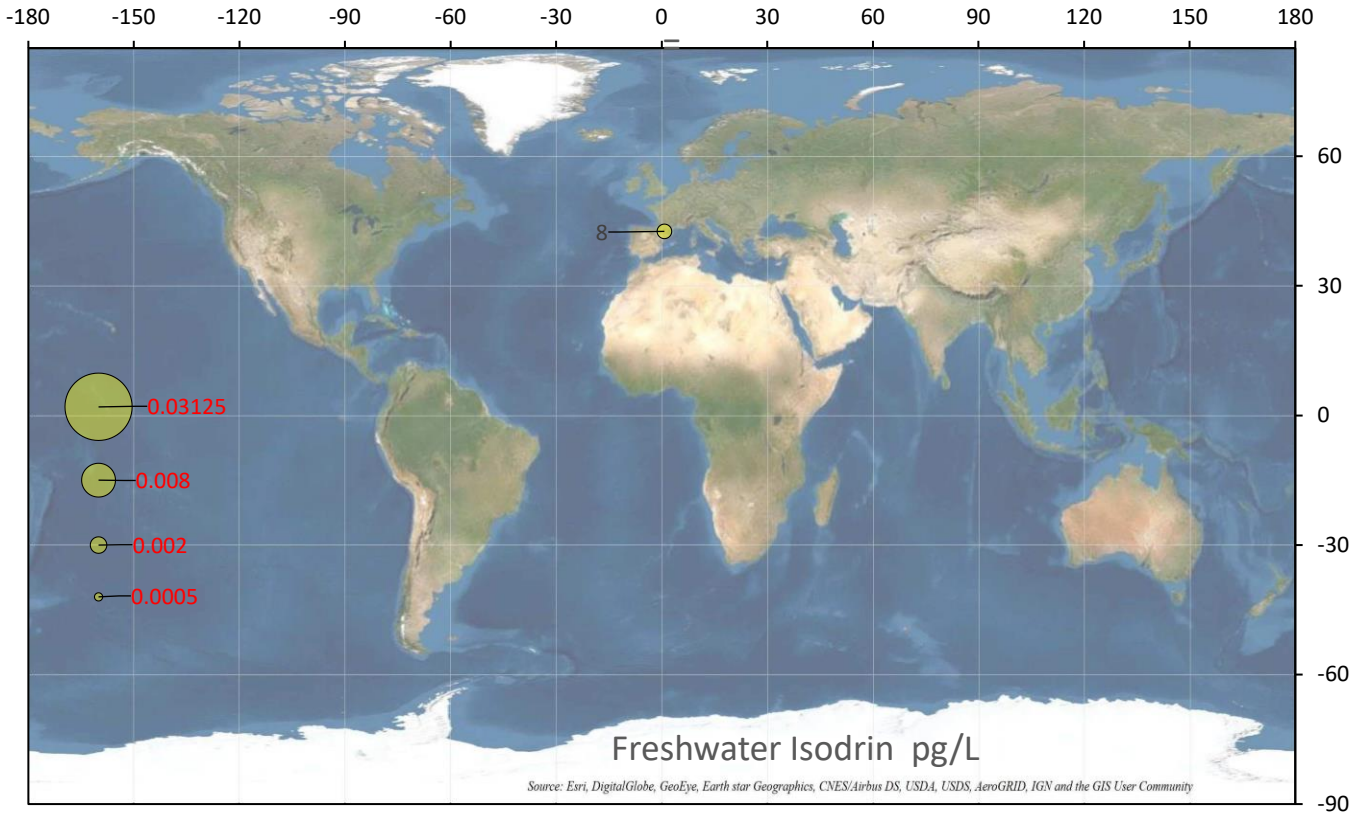
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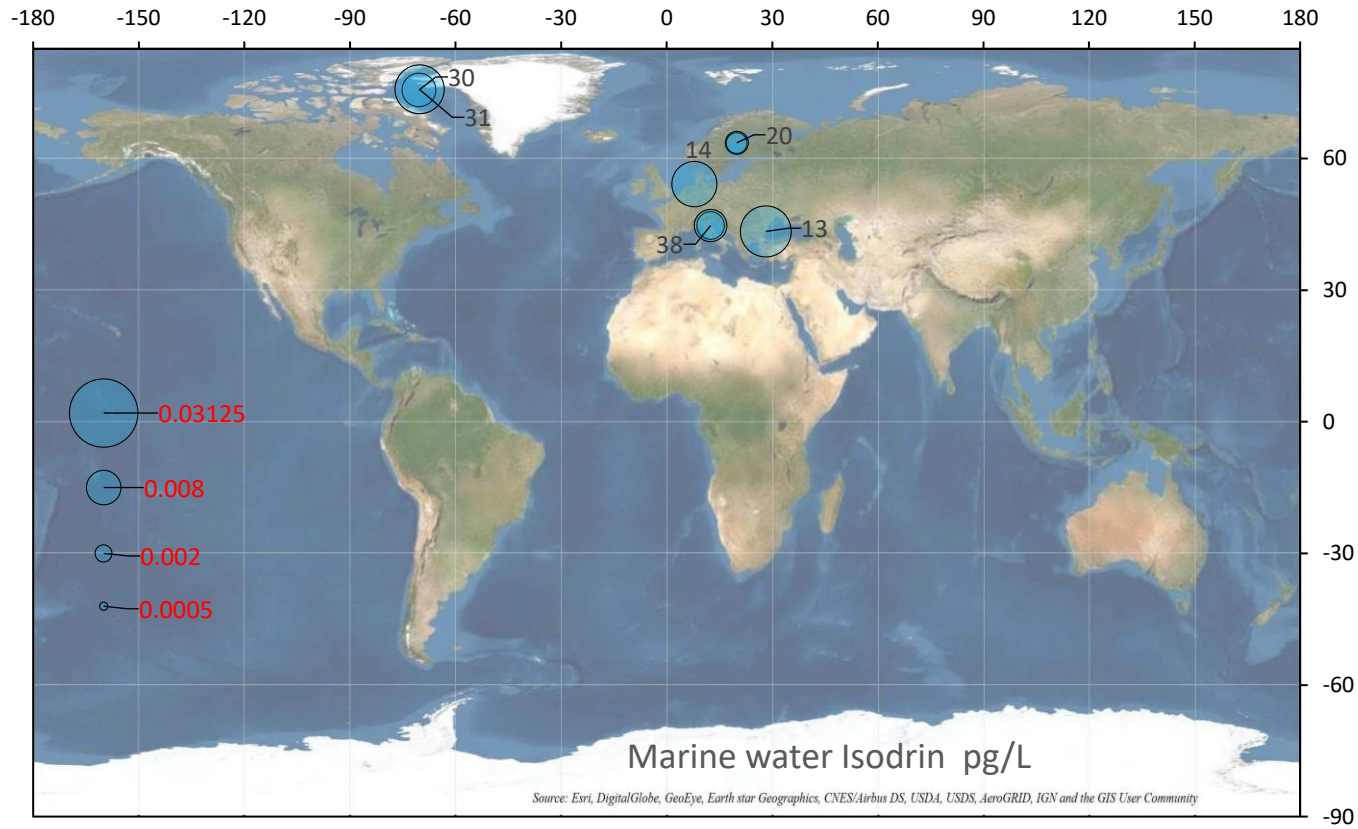
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water Isodrin pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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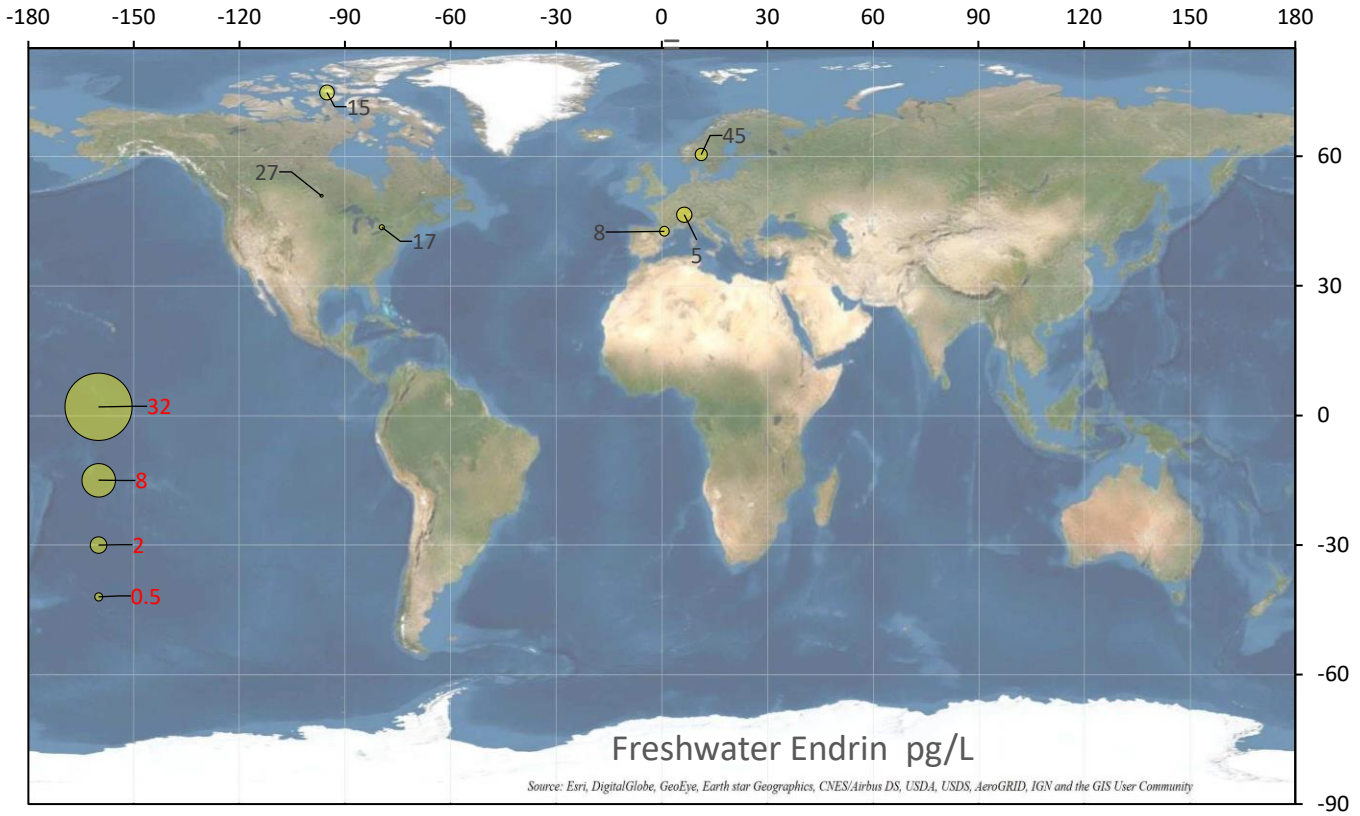
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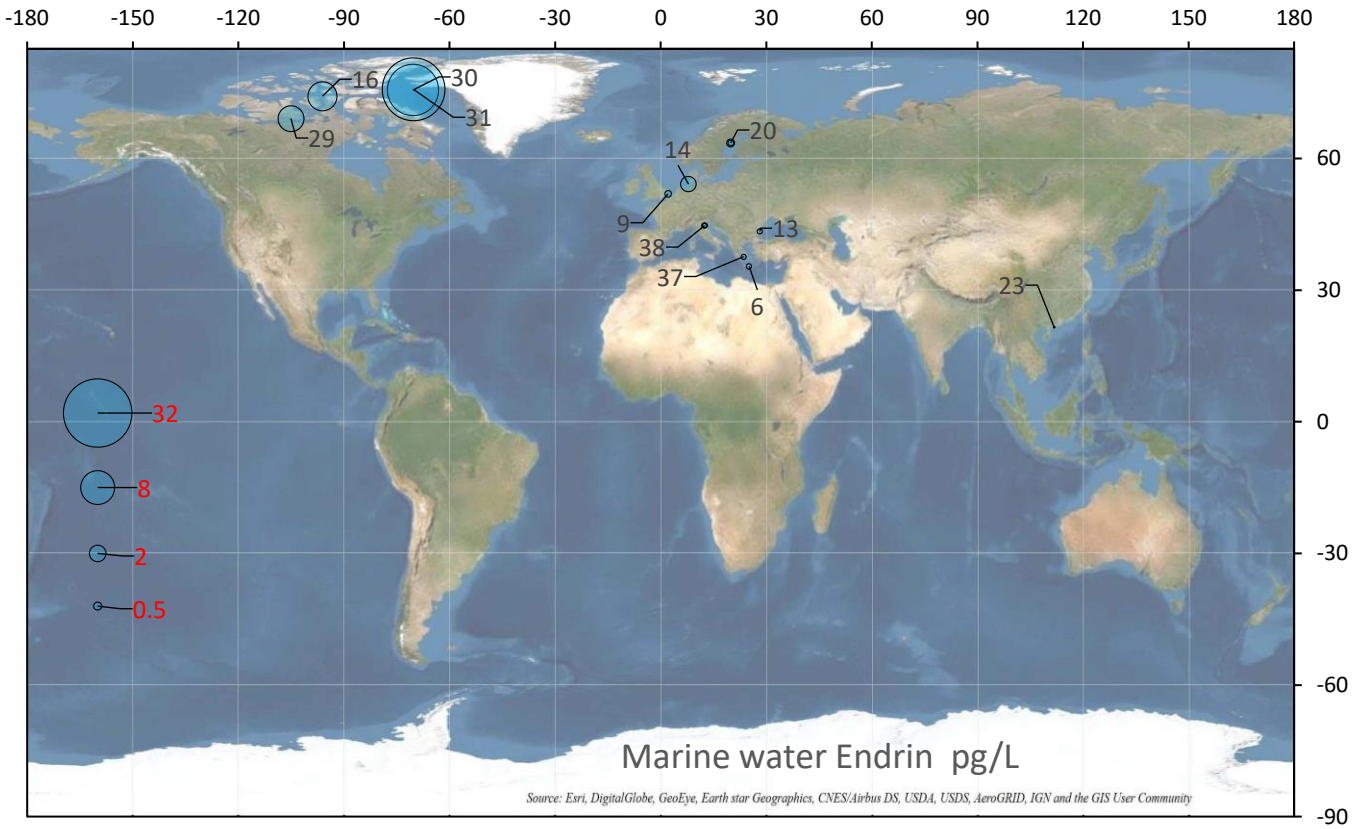
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Marine water Endrin pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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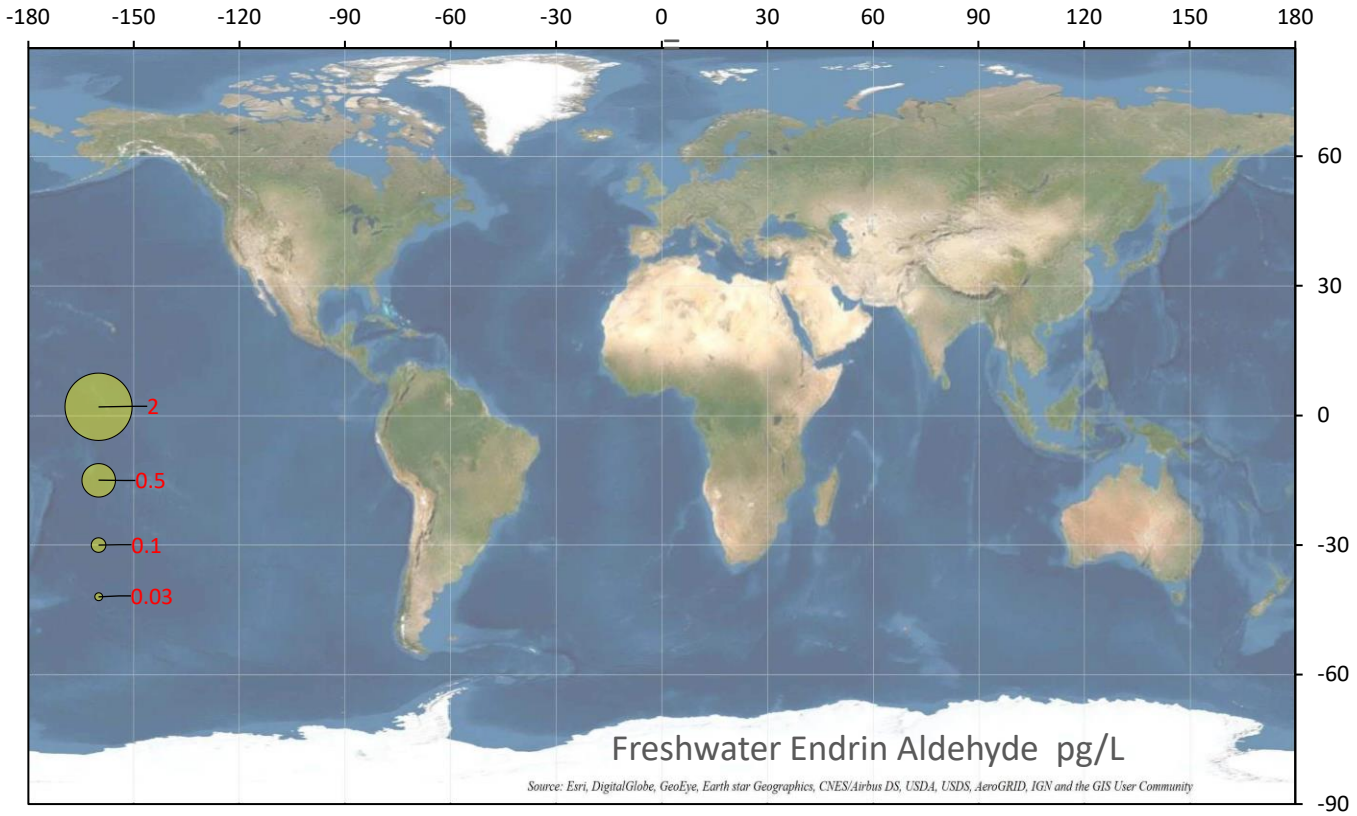
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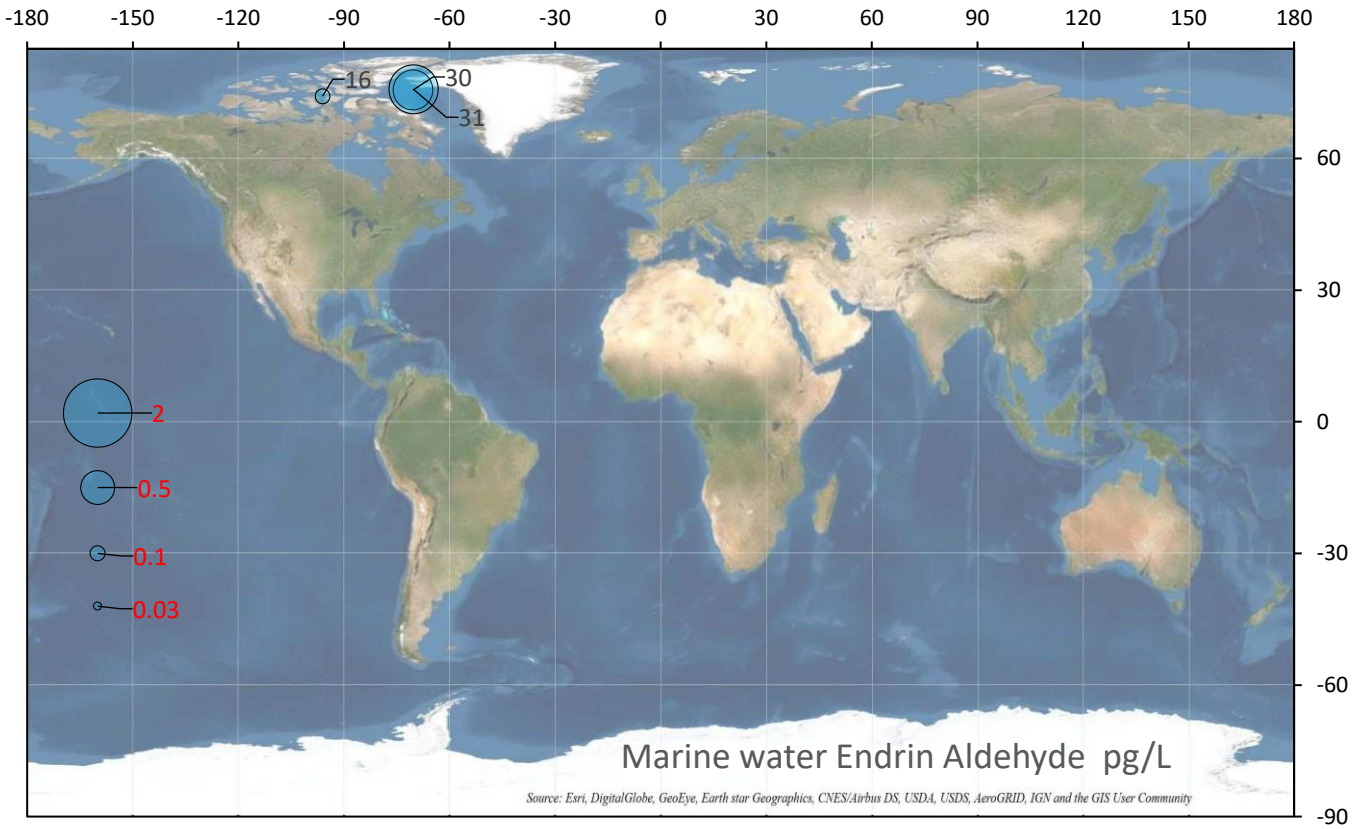
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water Endrin Aldehyde pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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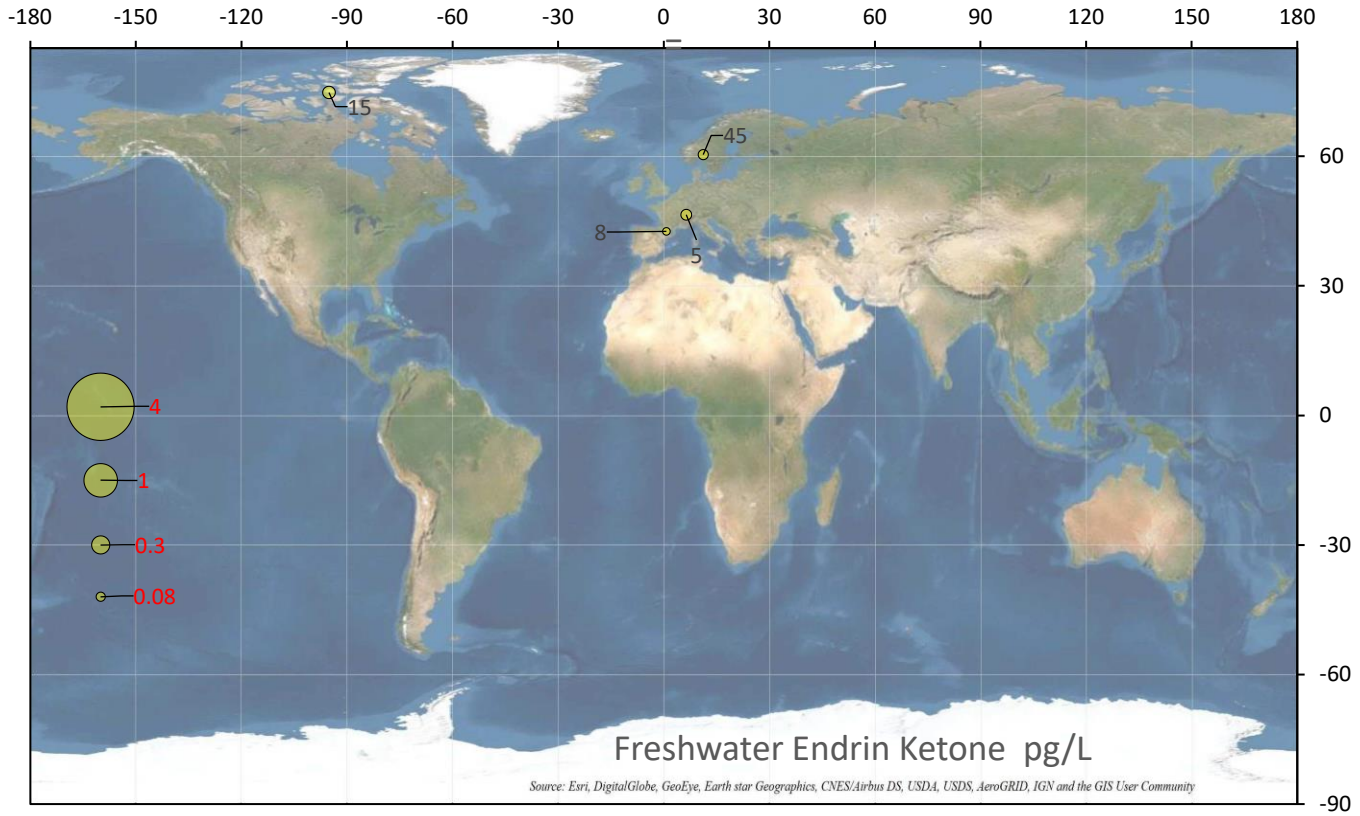
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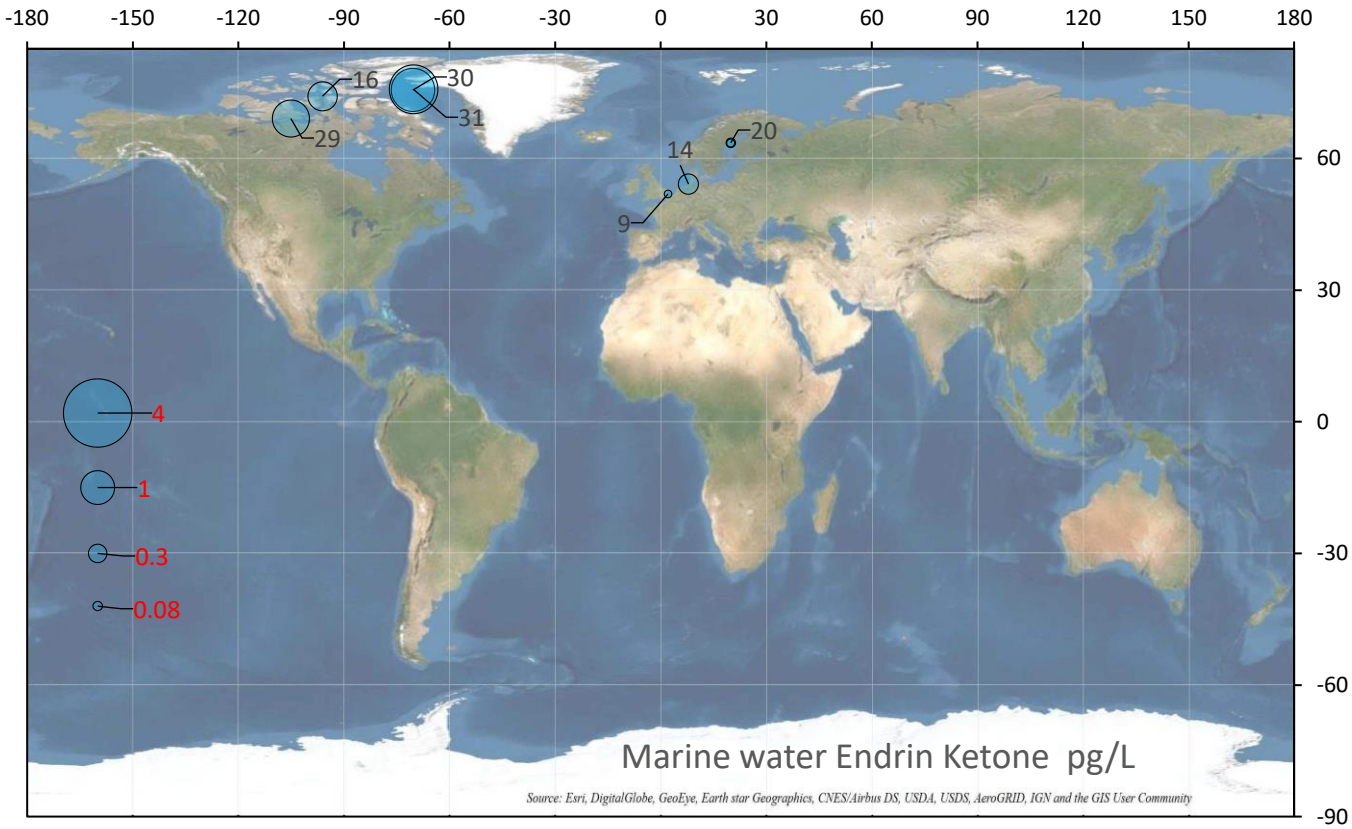
Freshwater Endrin Ketone pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water Endrin Ketone pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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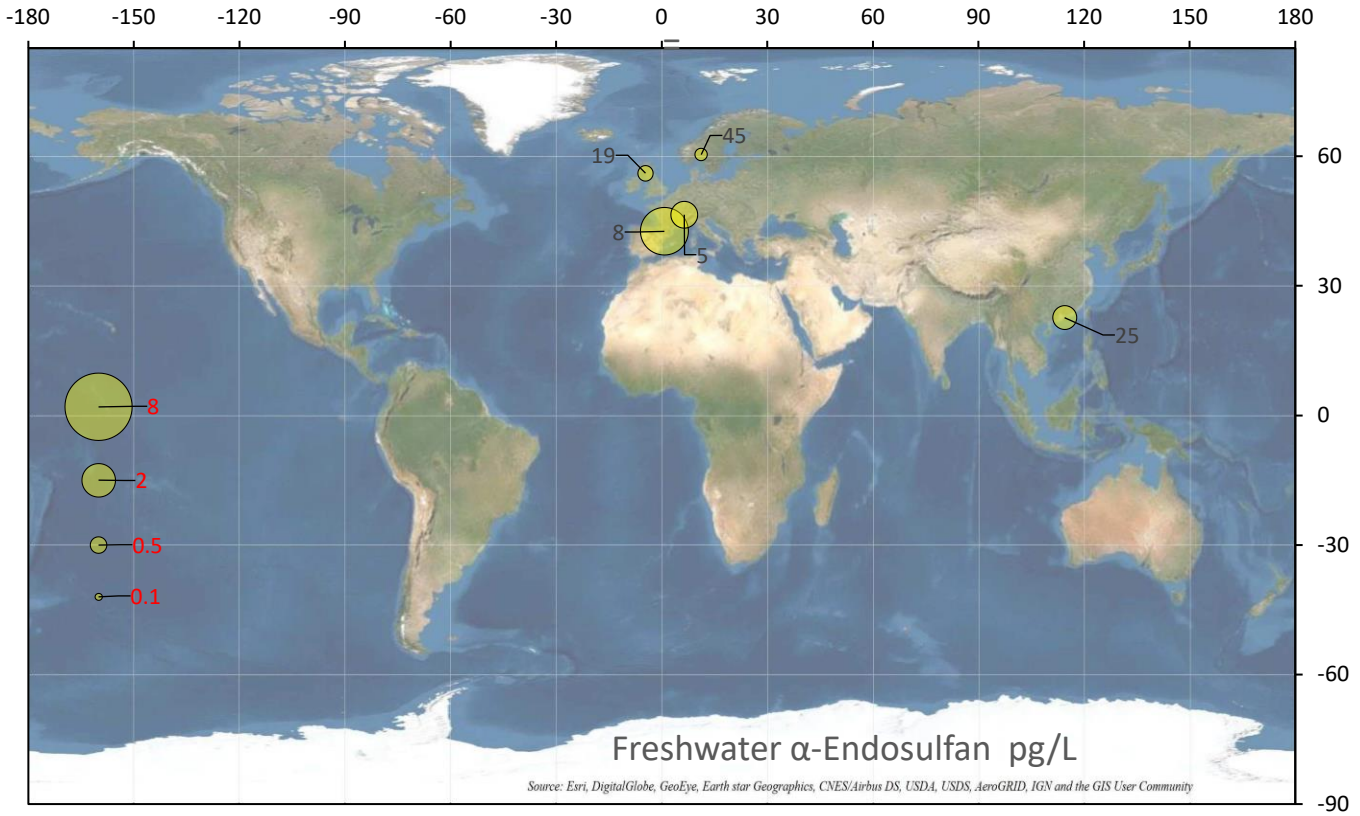
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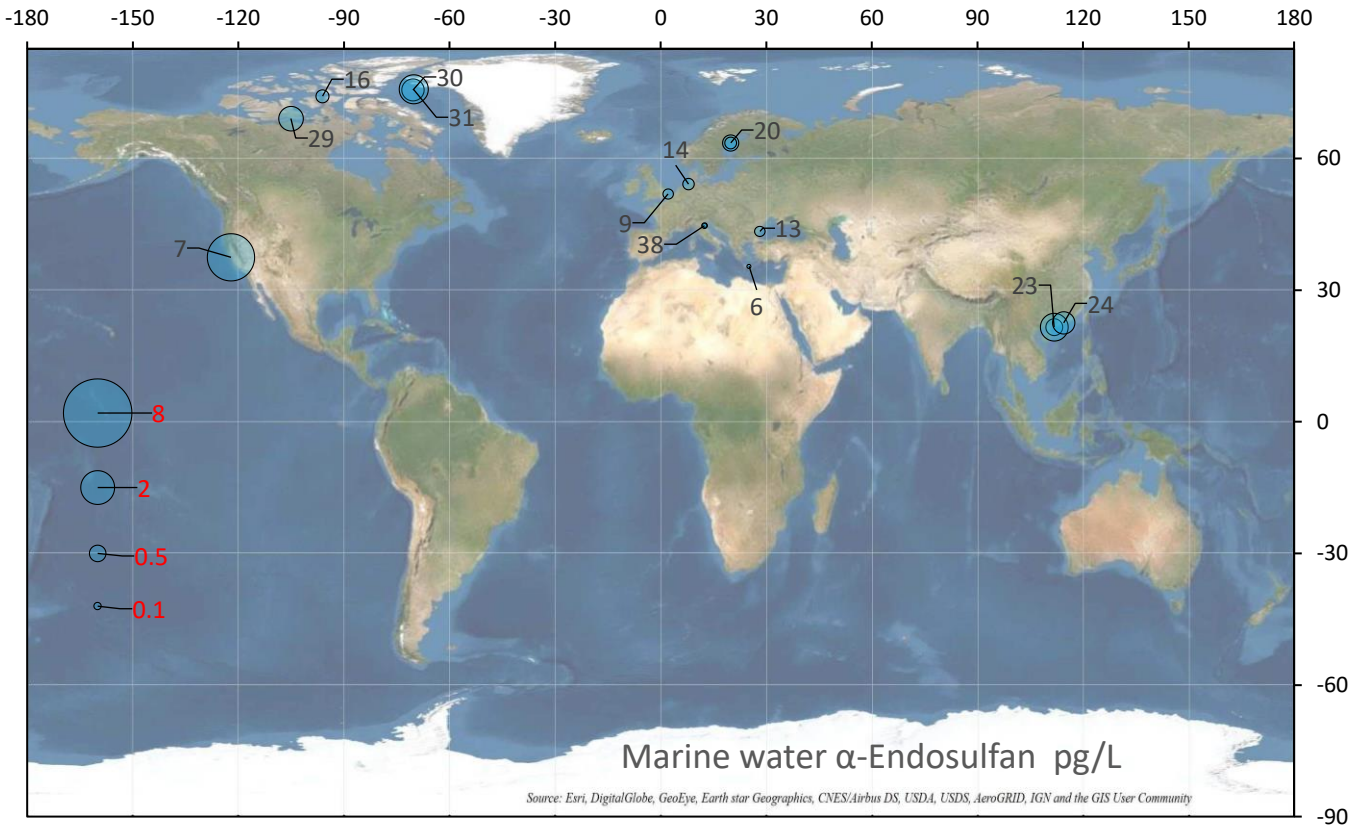
Freshwater α-Endosulfan pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water α-Endosulfan pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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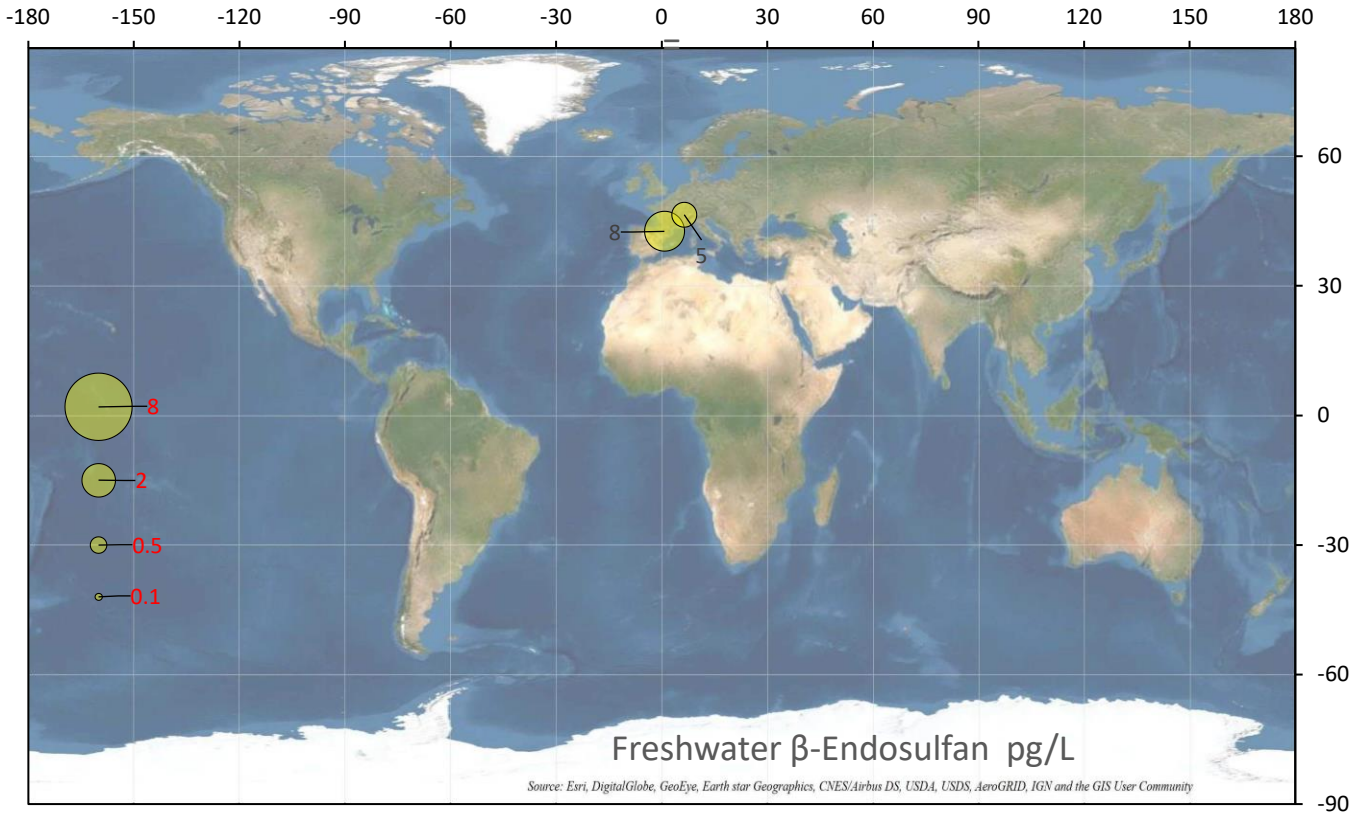
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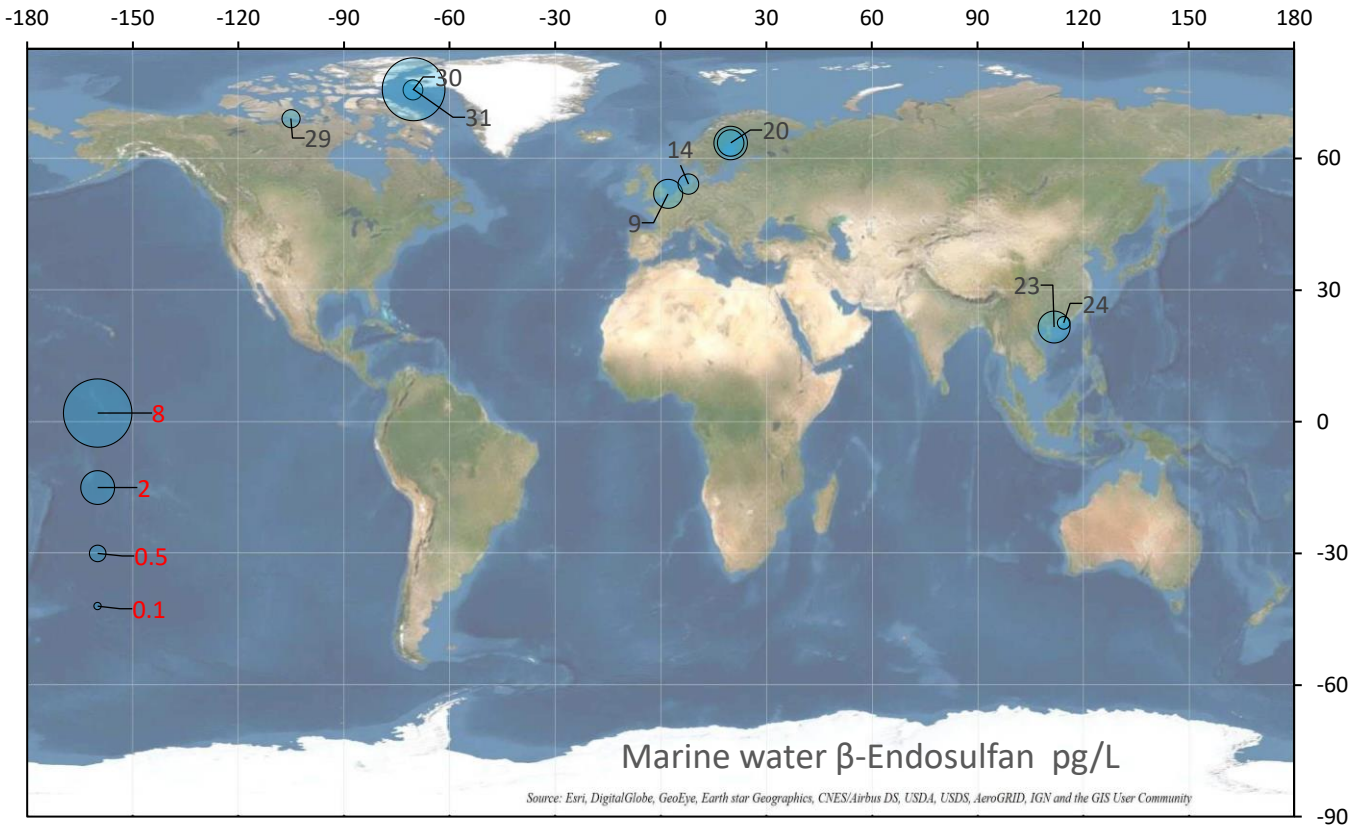
Freshwater β-Endosulfan pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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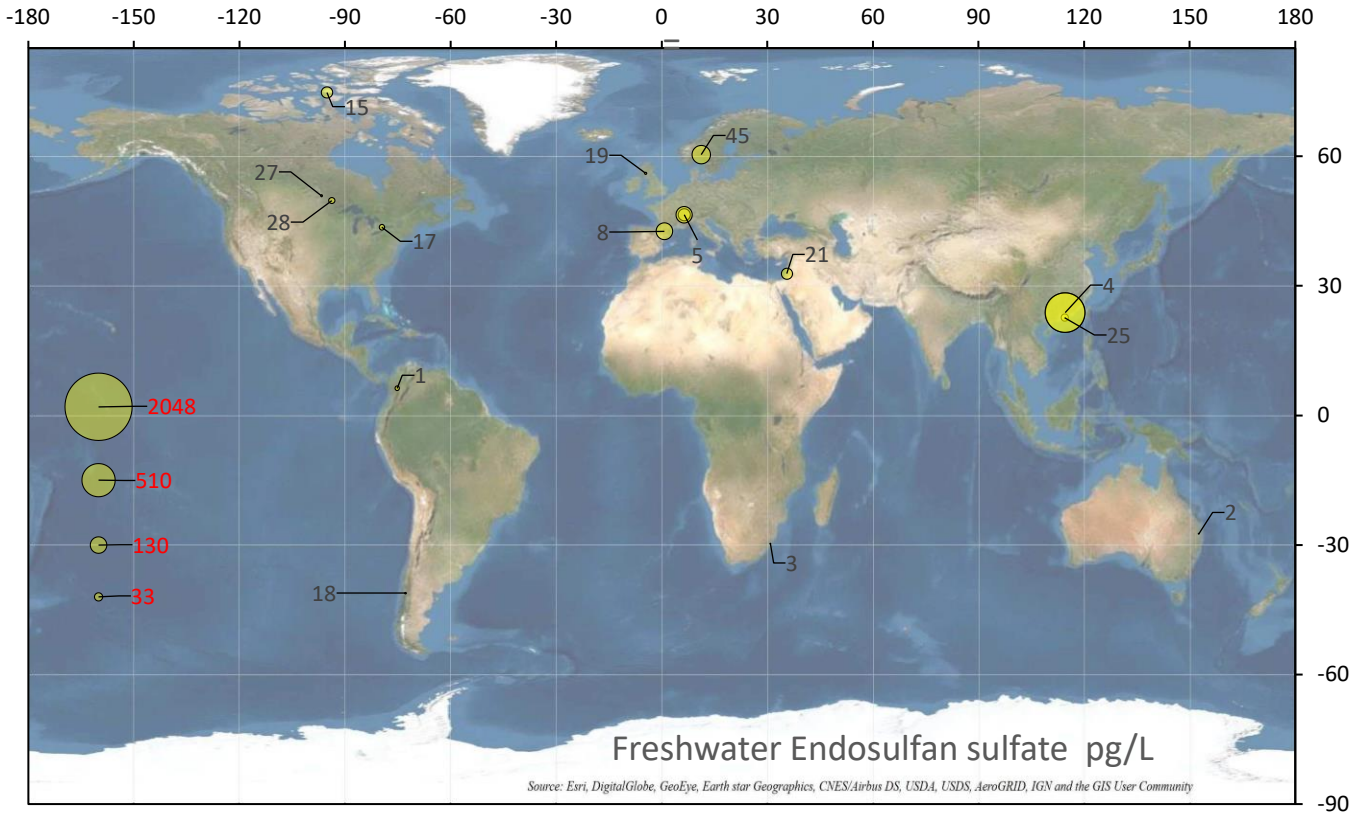
Marine water β-Endosulfan pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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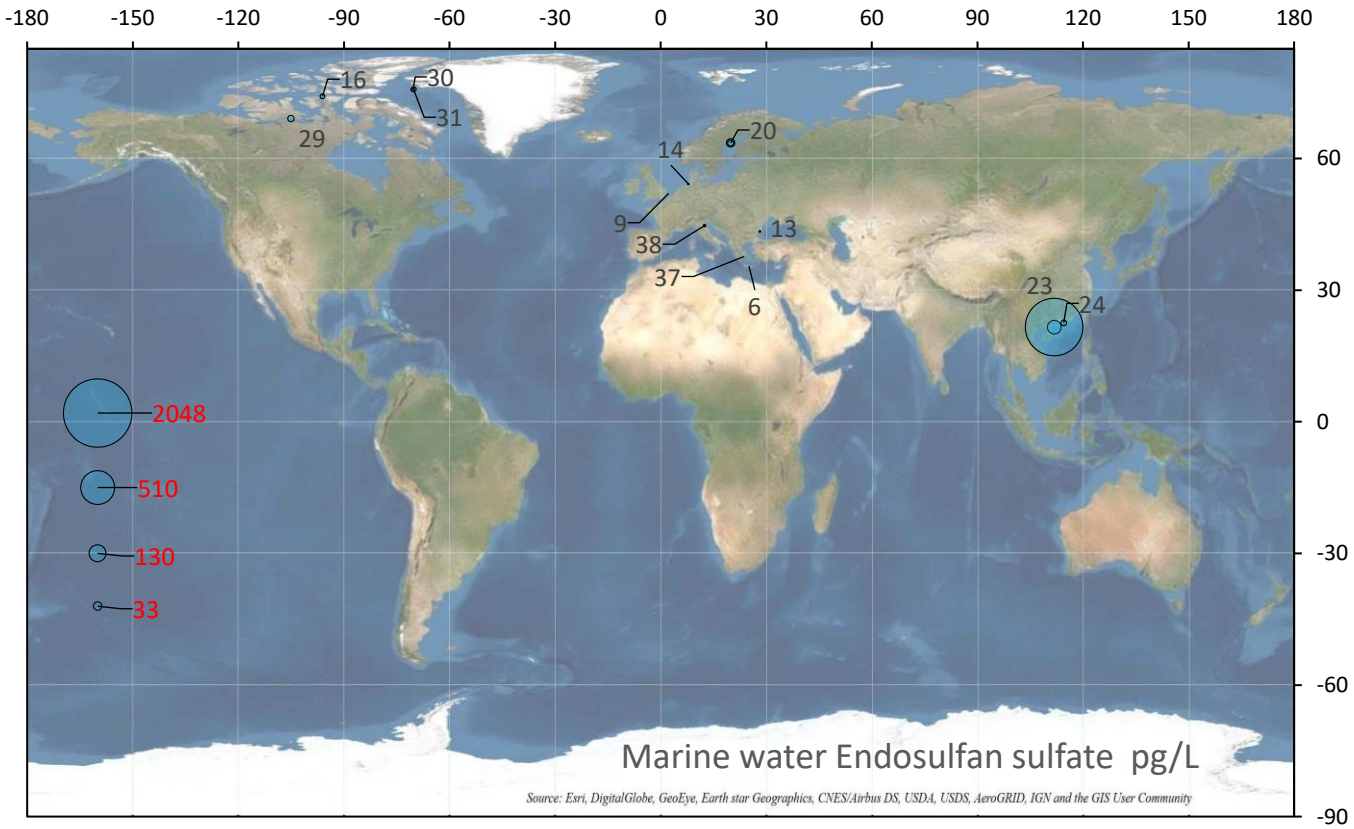
Freshwater Endosulfan sulfate pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water Endosulfan sulfate pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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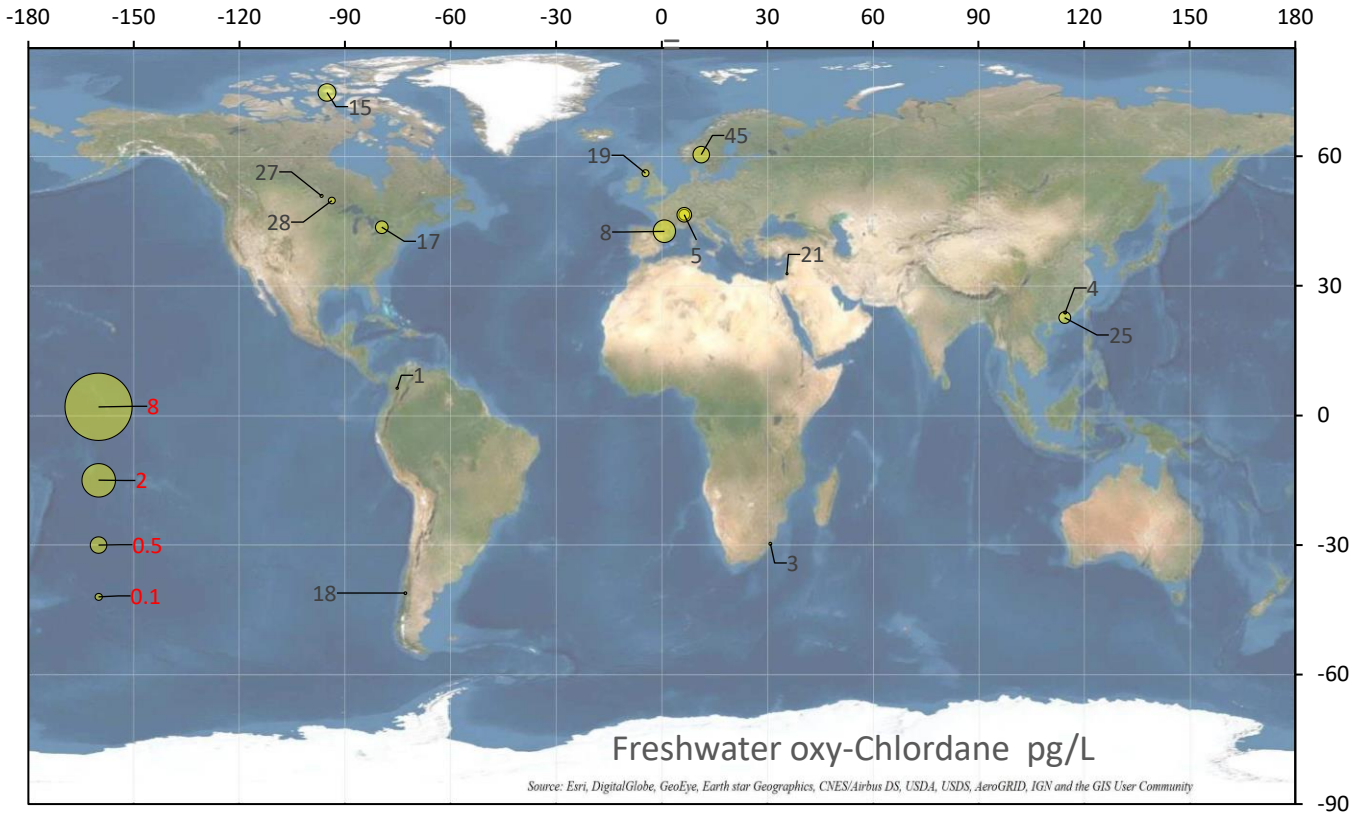
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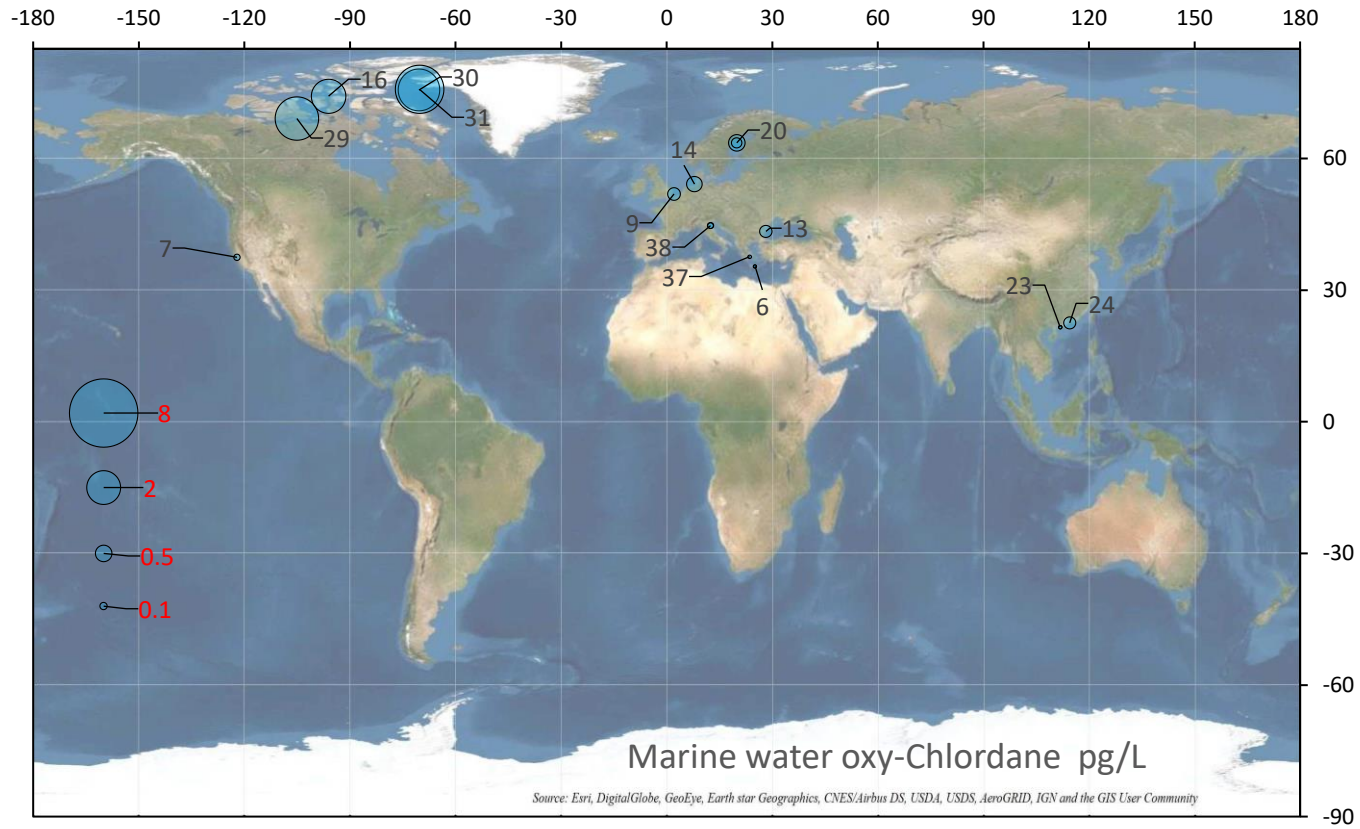
Freshwater oxy-Chlordane pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water oxy-Chlordane pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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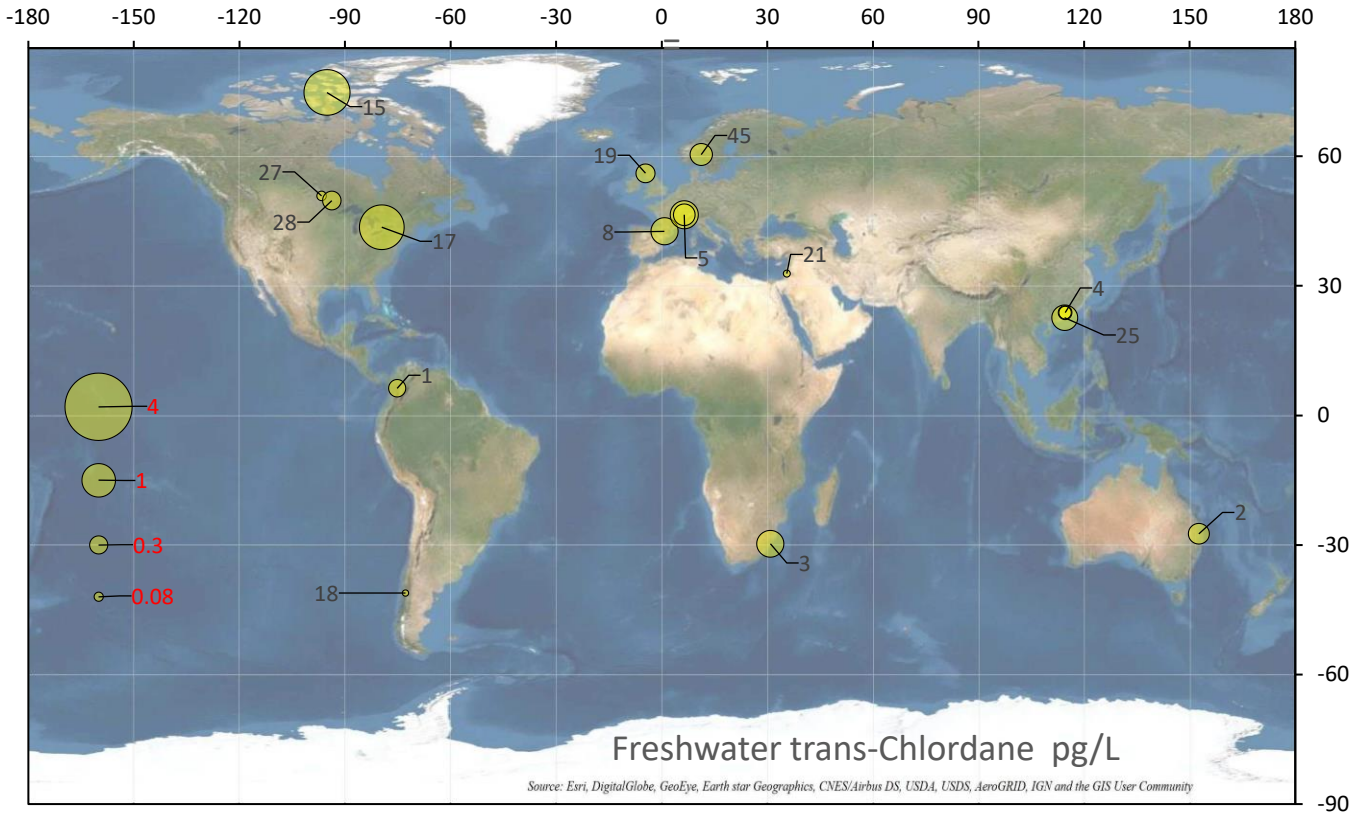
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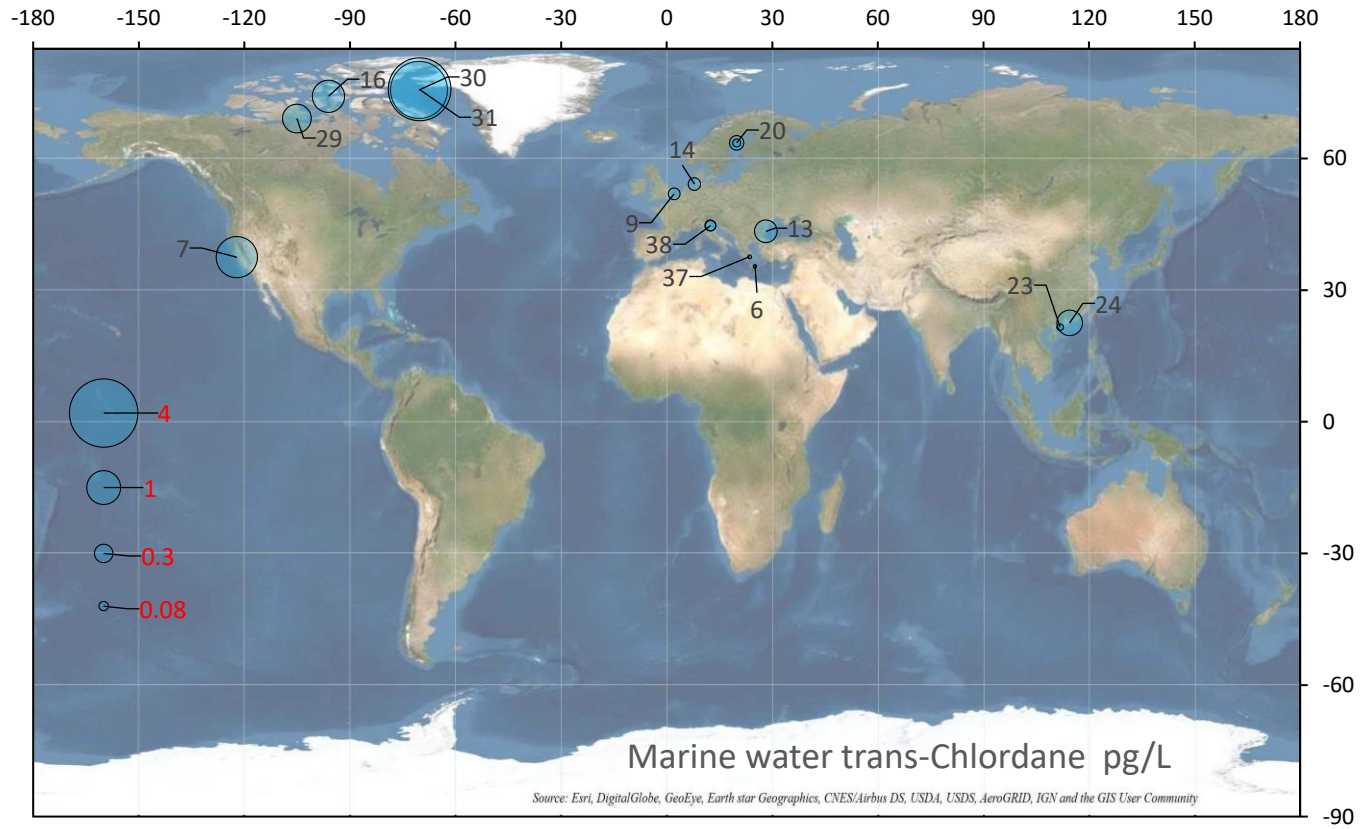
Freshwater trans-Chlordane pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water trans-Chlordane pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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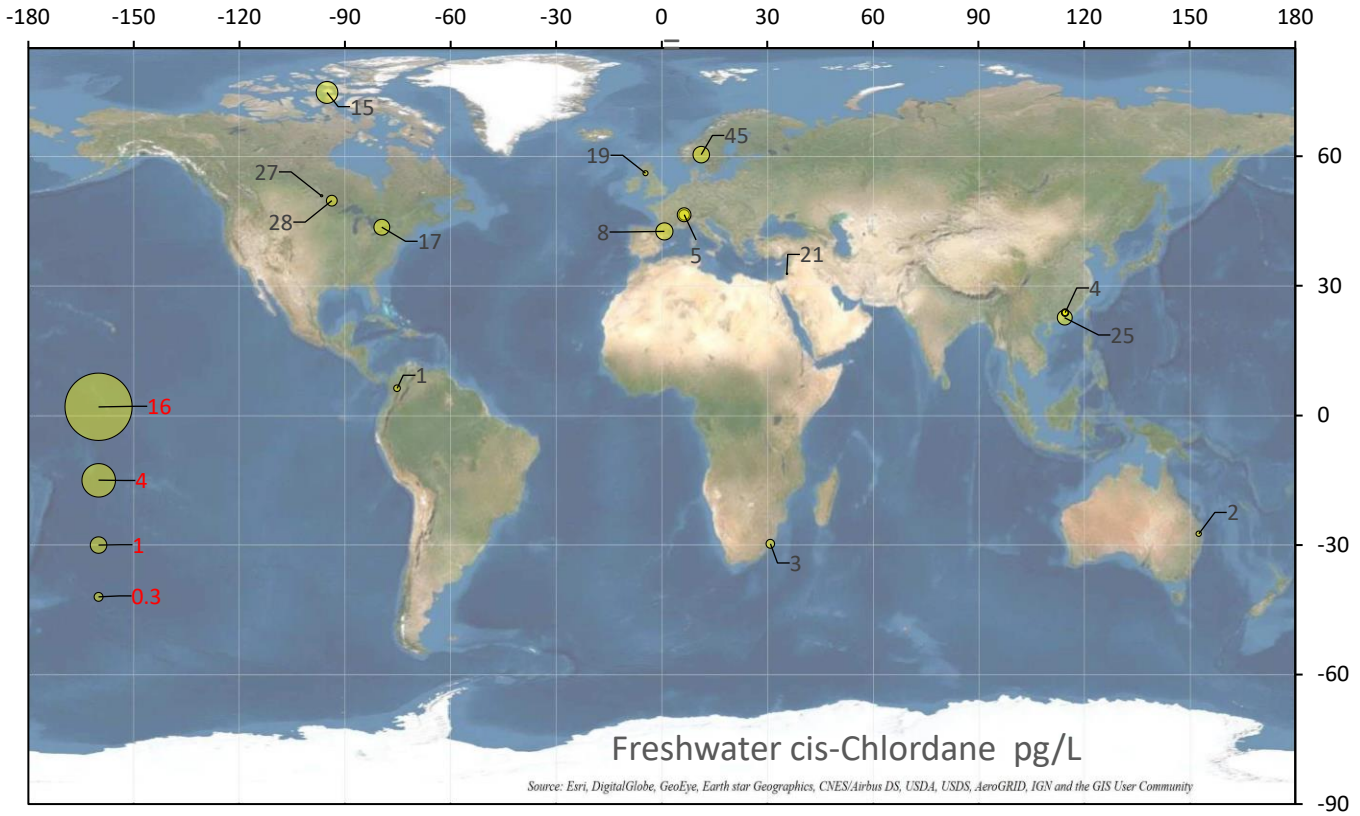
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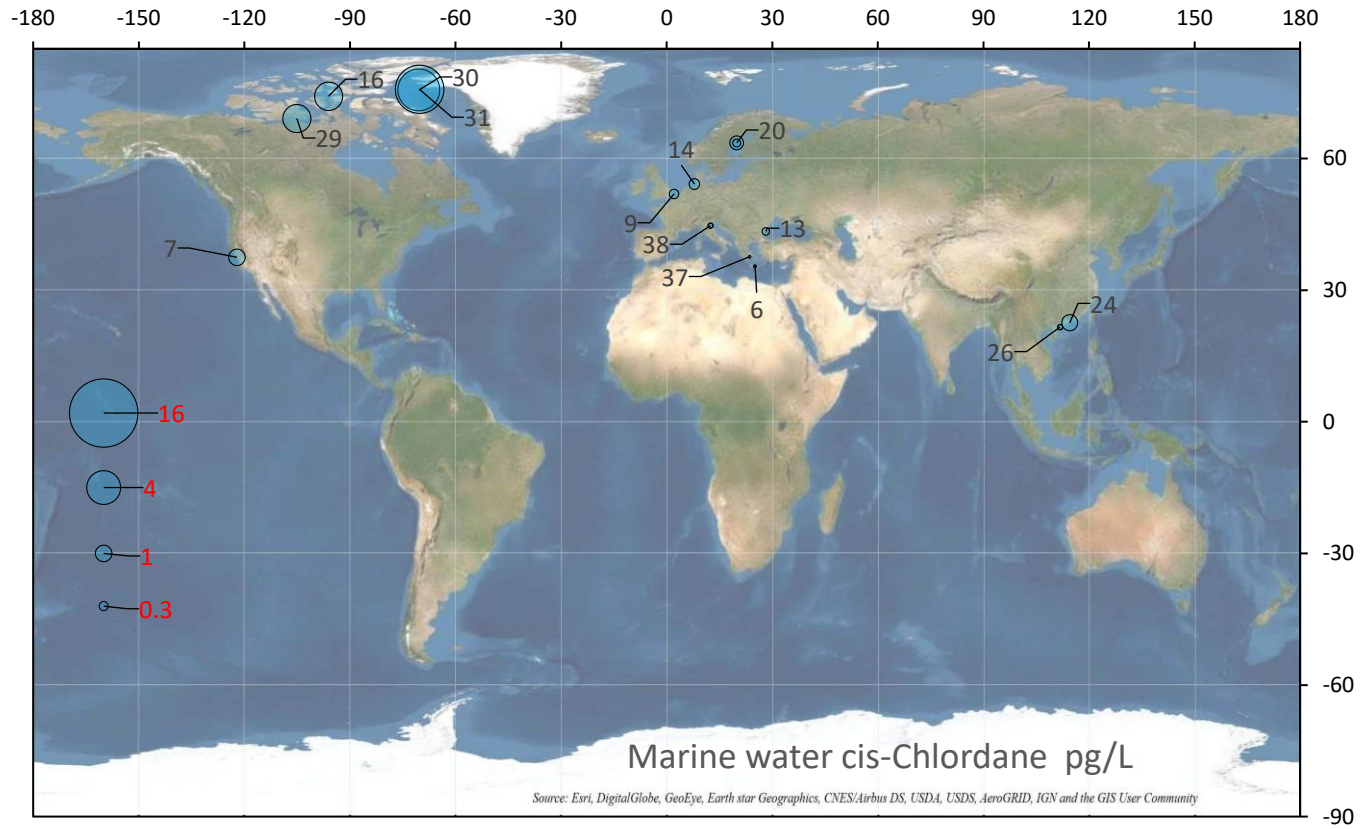
Freshwater cis-Chlordane pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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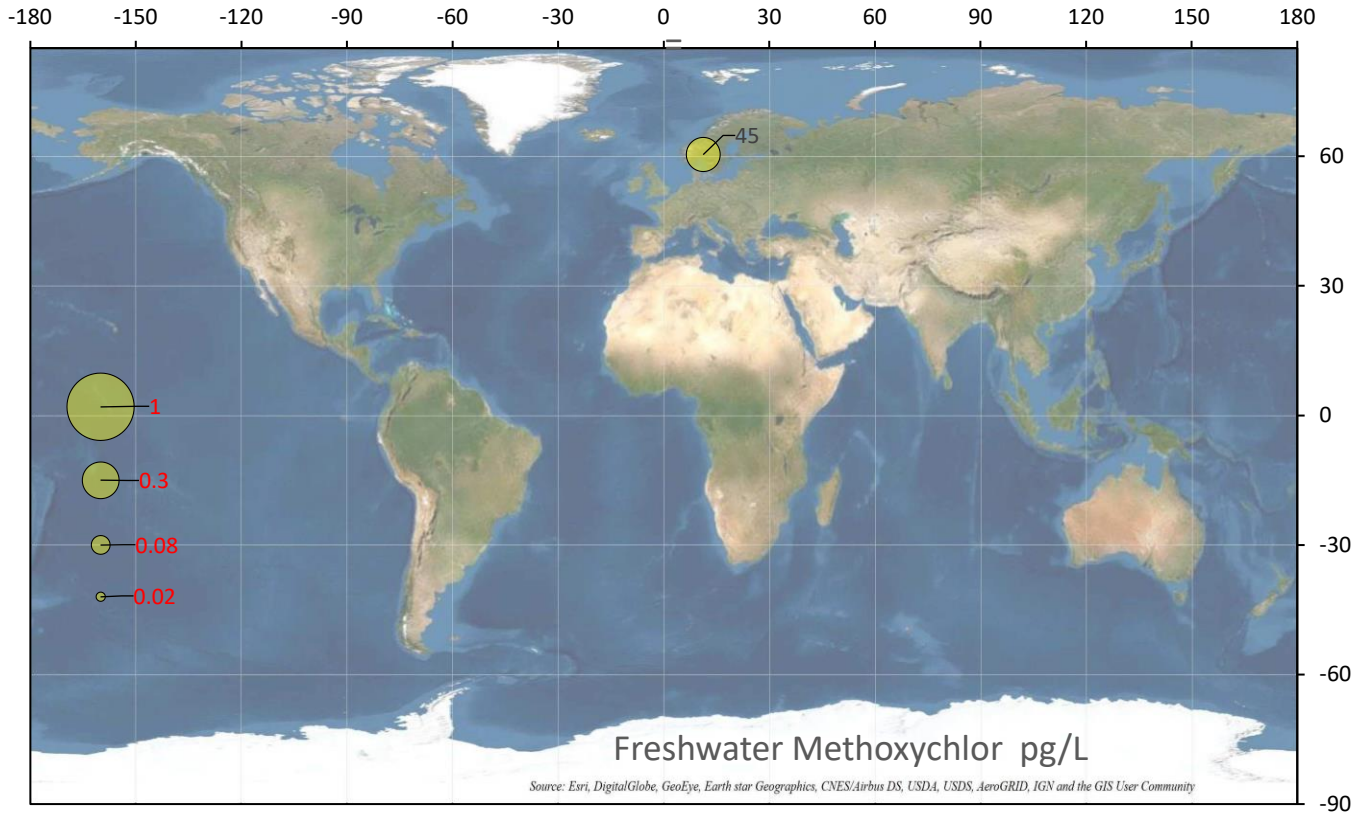
Marine water cis-Chlordane pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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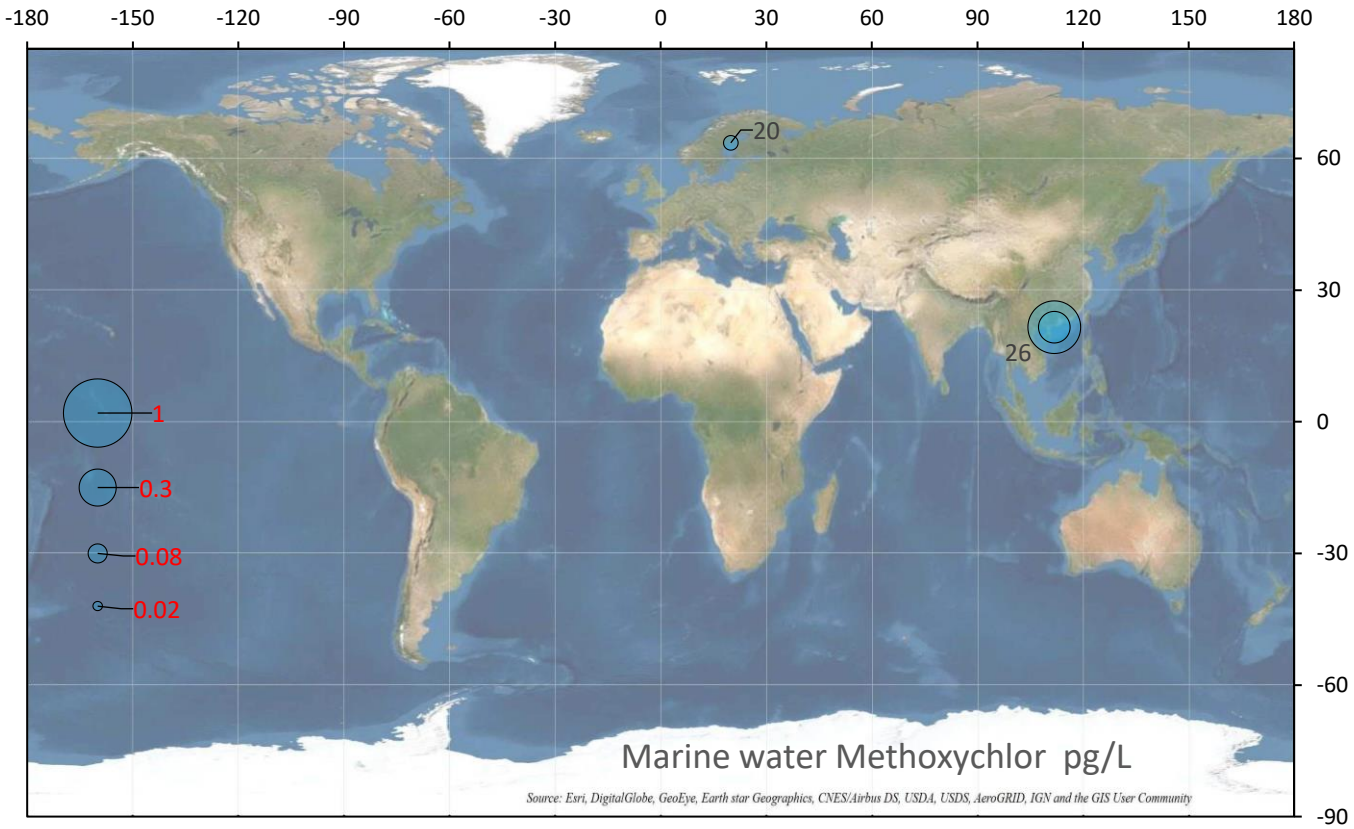
Freshwater Methoxychlor pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water Methoxychlor pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community

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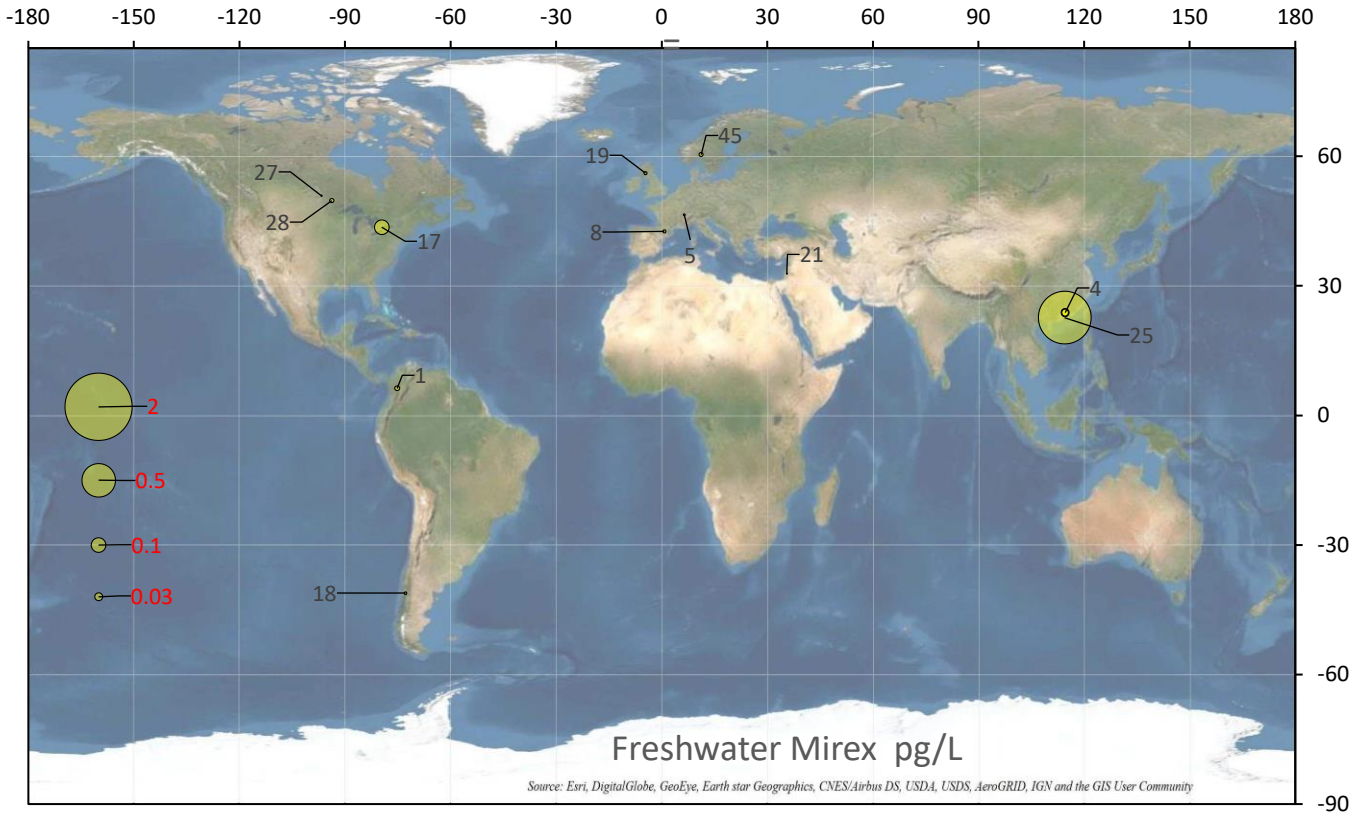
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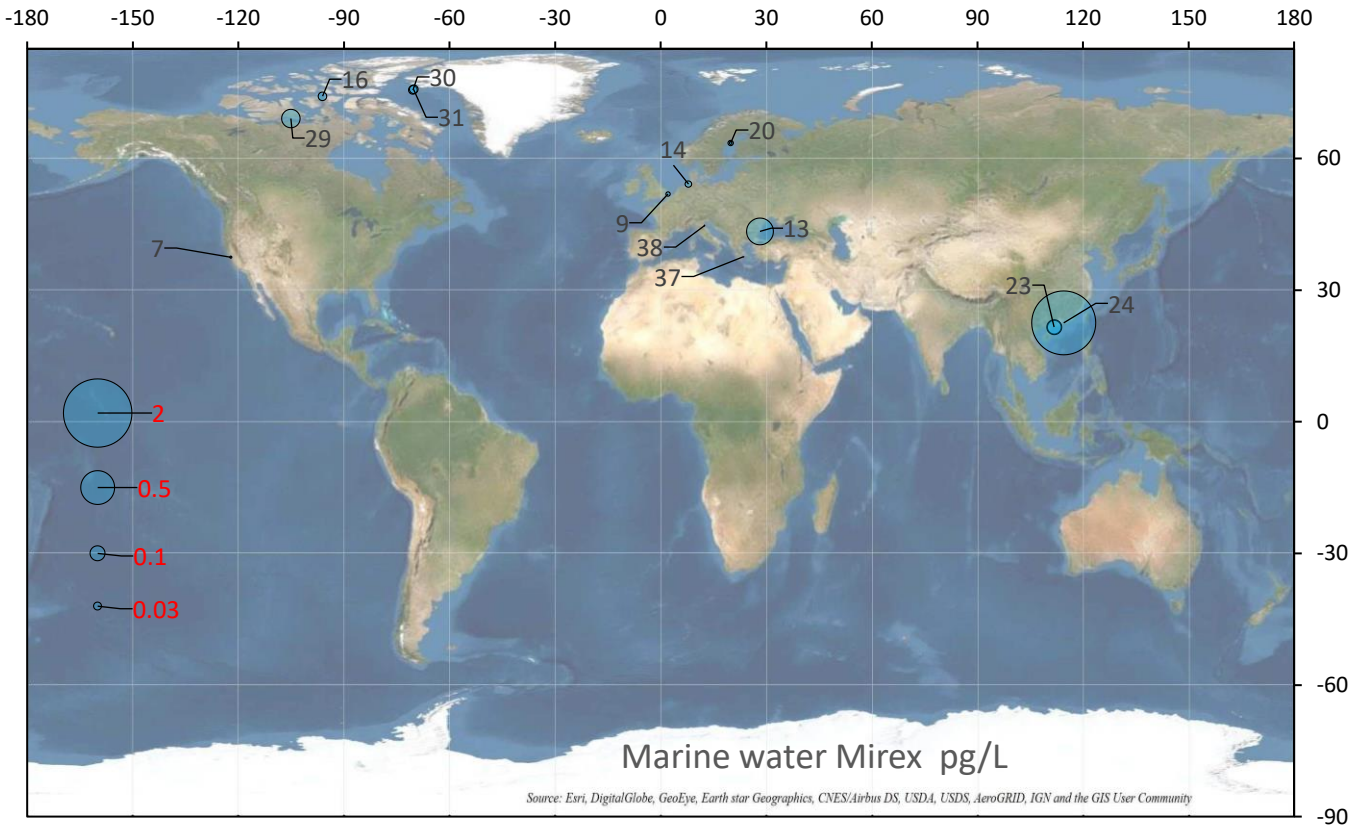
Freshwater Mirex pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community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Marine water Mirex pg/L
Source: Esri, DigitalGlobe, GeoEye, Earth star Geographics, CNES/Airbus DS, USDA, USDS, AeroGRID, IGN and the GIS User Community