

**Table S10: DOIs for hydrochemical measurements from water samples. See also <https://doi.org/10.1594/PANGAEA.926609>.**

| Cruise-id | DOI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nutrients   | Tracers | TON | DIC and AT | other              |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|-----|------------|--------------------|
| M77/3     | <a href="https://doi.org/10.1594/PANGAEA.801925">https://doi.org/10.1594/PANGAEA.801925</a><br><a href="https://doi.org/10.1594/PANGAEA.806268">https://doi.org/10.1594/PANGAEA.806268</a><br><a href="https://doi.org/10.1594/PANGAEA.793154">https://doi.org/10.1594/PANGAEA.793154</a><br><a href="https://doi.org/10.1594/PANGAEA.843322">https://doi.org/10.1594/PANGAEA.843322</a>                                                                                                | •<br>•<br>• |         |     |            | •<br>•<br>•<br>N2O |
| M77/4     | <a href="https://doi.org/10.1594/PANGAEA.793153">https://doi.org/10.1594/PANGAEA.793153</a><br><a href="https://doi.org/10.1594/PANGAEA.843450">https://doi.org/10.1594/PANGAEA.843450</a><br><a href="https://doi.org/10.1594/PANGAEA.843428">https://doi.org/10.1594/PANGAEA.843428</a><br><a href="https://doi.org/10.1594/PANGAEA.806262">https://doi.org/10.1594/PANGAEA.806262</a>                                                                                                | •<br>•<br>• |         |     |            | •<br>•<br>•        |
| M80/1     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |         |     |            |                    |
| M80/2     | <a href="https://doi.org/10.1594/PANGAEA.808287">https://doi.org/10.1594/PANGAEA.808287</a><br><a href="https://doi.org/10.1594/PANGAEA.821923">https://doi.org/10.1594/PANGAEA.821923</a><br><a href="https://doi.org/10.1594/PANGAEA.843370">https://doi.org/10.1594/PANGAEA.843370</a>                                                                                                                                                                                               | •           | •       |     |            | •<br>•<br>N2O      |
| M83/1     | <a href="https://doi.org/10.1594/PANGAEA.821729">https://doi.org/10.1594/PANGAEA.821729</a>                                                                                                                                                                                                                                                                                                                                                                                             | •           | •       |     |            | •                  |
| M90       | <a href="https://doi.org/10.1594/PANGAEA.857751">https://doi.org/10.1594/PANGAEA.857751</a><br><a href="https://doi.org/10.1594/PANGAEA.894194">https://doi.org/10.1594/PANGAEA.894194</a><br><a href="https://doi.org/10.1594/PANGAEA.908007">https://doi.org/10.1594/PANGAEA.908007</a><br><a href="https://doi.org/10.1594/PANGAEA.894195">https://doi.org/10.1594/PANGAEA.894195</a><br><a href="https://doi.org/10.1594/PANGAEA.857760">https://doi.org/10.1594/PANGAEA.857760</a> | •           |         |     |            | •<br>•<br>•<br>N2O |
| M91       | <a href="https://doi.org/10.1594/PANGAEA.904304">https://doi.org/10.1594/PANGAEA.904304</a><br><a href="https://doi.org/10.1594/PANGAEA.817174">https://doi.org/10.1594/PANGAEA.817174</a><br><a href="https://doi.org/10.1594/PANGAEA.908006">https://doi.org/10.1594/PANGAEA.908006</a>                                                                                                                                                                                               | •<br>•      |         |     |            | •                  |
| M92       | <a href="https://doi.org/10.1594/PANGAEA.862046">https://doi.org/10.1594/PANGAEA.862046</a><br><a href="https://doi.org/10.1594/PANGAEA.860382">https://doi.org/10.1594/PANGAEA.860382</a>                                                                                                                                                                                                                                                                                              | •           |         |     |            | N2O                |
| M93       | <a href="https://doi.org/10.1594/PANGAEA.862055">https://doi.org/10.1594/PANGAEA.862055</a><br><a href="https://doi.org/10.1594/PANGAEA.860387">https://doi.org/10.1594/PANGAEA.860387</a>                                                                                                                                                                                                                                                                                              | •           |         |     |            | •<br>N2O           |
| M96       | <a href="https://doi.org/10.1594/PANGAEA.854028">https://doi.org/10.1594/PANGAEA.854028</a>                                                                                                                                                                                                                                                                                                                                                                                             | •           |         |     |            |                    |
| M97       | <a href="https://doi.org/10.1594/PANGAEA.863119">https://doi.org/10.1594/PANGAEA.863119</a>                                                                                                                                                                                                                                                                                                                                                                                             | •           | •       |     |            | •                  |
| M105      | <a href="https://doi.org/10.1594/PANGAEA.864810">https://doi.org/10.1594/PANGAEA.864810</a>                                                                                                                                                                                                                                                                                                                                                                                             | •           | •       |     |            | •                  |
| M106      | To be submitted                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | •           |         | •   |            |                    |
| M107      | <a href="https://doi.org/10.1594/PANGAEA.885109">https://doi.org/10.1594/PANGAEA.885109</a><br><a href="https://doi.org/10.1594/PANGAEA.896321">https://doi.org/10.1594/PANGAEA.896321</a>                                                                                                                                                                                                                                                                                              | •           |         |     |            | •                  |
| M116/1    | <a href="https://doi.org/10.1594/PANGAEA.886191">https://doi.org/10.1594/PANGAEA.886191</a>                                                                                                                                                                                                                                                                                                                                                                                             | •           | •       |     | •          |                    |

|                 |                                                                                                                                                                                            |   |   |   |   |     |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|-----|
| M119            | To be submitted                                                                                                                                                                            | • |   | • |   |     |
| M130            | <a href="https://doi.org/10.1594/PANGAEA.913986">https://doi.org/10.1594/PANGAEA.913986</a>                                                                                                | • | • | • |   |     |
| M135            | <a href="https://doi.org/10.1594/PANGAEA.890441">https://doi.org/10.1594/PANGAEA.890441</a>                                                                                                | • | • |   |   |     |
| M136            | <a href="https://doi.org/10.1594/PANGAEA.904404">https://doi.org/10.1594/PANGAEA.904404</a>                                                                                                | • |   |   |   |     |
| M137            | <a href="https://doi.org/10.1594/PANGAEA.904405">https://doi.org/10.1594/PANGAEA.904405</a>                                                                                                | • |   |   |   |     |
| M138            | <a href="https://doi.org/10.1594/PANGAEA.914948">https://doi.org/10.1594/PANGAEA.914948</a>                                                                                                |   |   |   |   | N2O |
| M145            | To be submitted                                                                                                                                                                            | • |   | • |   |     |
| MSM08/1         | <a href="https://doi.org/10.1594/PANGAEA.774842">https://doi.org/10.1594/PANGAEA.774842</a>                                                                                                | • |   |   |   |     |
| MSM10/1         | <a href="https://doi.org/10.1594/PANGAEA.775074">https://doi.org/10.1594/PANGAEA.775074</a>                                                                                                | • | • |   |   | •   |
| MSM18/2         | <a href="https://doi.org/10.1594/PANGAEA.843373">https://doi.org/10.1594/PANGAEA.843373</a><br><a href="https://doi.org/10.1594/PANGAEA.900984">https://doi.org/10.1594/PANGAEA.900984</a> | • |   |   |   | N2O |
| MSM18/3         | <a href="https://doi.org/10.1594/PANGAEA.843374">https://doi.org/10.1594/PANGAEA.843374</a>                                                                                                | • |   |   |   |     |
| MSM22           | <a href="https://doi.org/10.1594/PANGAEA.842498">https://doi.org/10.1594/PANGAEA.842498</a>                                                                                                | • |   |   |   |     |
| MMS23           | <a href="https://doi.org/10.1594/PANGAEA.842187">https://doi.org/10.1594/PANGAEA.842187</a>                                                                                                |   | • |   | • |     |
| ATA_IFMGEOMAR_4 | <a href="https://doi.org/10.1594/PANGAEA.793119">https://doi.org/10.1594/PANGAEA.793119</a>                                                                                                | • |   |   |   |     |
| SO243           | <a href="https://doi.org/10.1594/PANGAEA.861391">https://doi.org/10.1594/PANGAEA.861391</a>                                                                                                | • |   |   |   |     |