Ocean Carbon Sink Core Measurements Protocols

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(Continued from the previous page)

- e.g. 2: Availability of labile organic carbon by plate incubation

![Diagram of plate incubation](image)

- e.g. 3: Availability of labile organic carbon by bioassay

![Diagram of bioassay](image)

- e.g. 4: Profiling microbial potential for carbon sequestration using functional gene microarray

![Diagram of microarray](image)

- e.g. 5: Key measurements of DIC parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
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<tbody>
<tr>
<td>pH</td>
<td></td>
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<tr>
<td>DIC (TCO2)</td>
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</tr>
<tr>
<td>DO</td>
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<td>Ca</td>
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- e.g. 6: Mesocosm studies for a comprehensive understanding what possible influential factors will produce a positive or negative reaction of ocean carbon sink

![Diagram of mesocosm](image)

- Finally, a series of databases will be built to collect and compare data from various sea areas and environments, to calculate the ocean carbon reservoir, including RDOC reservoirs and POC reservoirs, and to estimate the uptake capacity of the ocean for the “extra” CO2 that has been emitted to the atmosphere.

![Diagram of database](image)

We welcome contributions to the ocean carbon sink protocols.

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