<table>
<thead>
<tr>
<th>Week 1</th>
<th>Morning</th>
<th>Afternoon</th>
<th>Evening</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday 28</td>
<td>Travel to Namibia and pick-up at Walvis Bay or Swakopmund</td>
<td>Participants (Students, TAs and Instructors) arrive in Swakopmund at the Municipal Bungalows.</td>
<td>19.30 Welcome and Get Together at the Residence. Pizza and drinks will be provided.</td>
</tr>
<tr>
<td>Monday 29</td>
<td>07.30 Breakfast at NatMIRC</td>
<td>Symposium cont.</td>
<td>19.30 Dinner Activities defined by Participants</td>
</tr>
<tr>
<td>Tuesday 30</td>
<td>07.30 Bus departs for medical exam. Breakfast box at Medixx. Medical tests for seafarer certificate</td>
<td>will probably last until early afternoon. Shopping for personal needs</td>
<td>18.30 Dinner Activities defined by Participants</td>
</tr>
<tr>
<td>Wednesday 01</td>
<td>07.30 Breakfast at NatMIRC</td>
<td>13.30 Lunch at NatMIRC</td>
<td>19.00 Dinner Activities defined by Participants</td>
</tr>
<tr>
<td>Thursday 02</td>
<td>07.30 Breakfast at NatMIRC</td>
<td>12.30 Lunch box</td>
<td>19.00 Dinner Activities defined by Participants</td>
</tr>
<tr>
<td>Friday 03</td>
<td>07.30 Breakfast at NatMIRC</td>
<td>Lunch at local restaurant when finished with installations on the MIRABILIS Early afternoon: Prepare for presentation at Student + Alumni Forum.</td>
<td>18.00 Dinner Activities defined by Participants</td>
</tr>
<tr>
<td>Saturday 04</td>
<td>07.30 Breakfast at NatMIRC</td>
<td>Student + Alumni Forum continued</td>
<td>19.00 Dinner Activities defined by Participants</td>
</tr>
<tr>
<td>Sunday 05</td>
<td>Relax, catch up, explore. Breakfast, lunch and dinner on your own. Please let us know where you are going, if you are leaving for a Sunday excursion alone or as a group.</td>
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</tr>
<tr>
<td>Day</td>
<td>Time</td>
<td>Morning</td>
<td>Afternoon</td>
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<td>-------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Monday</td>
<td>06</td>
<td>07.30 Breakfast at NatMIRC</td>
<td>Group 1 departs for cruise leg 1.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>08.30 ALL, Departure for cruise leg 1</td>
<td>Group 2 returns to SANUMARC laboratories in Henties Bay and sets up</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11.00 Instructions onboard the MIRABILIS</td>
<td>laboratories</td>
</tr>
<tr>
<td>Tuesday</td>
<td>07</td>
<td>Group 1: at sea</td>
<td>Group 2: Lab work. Preparing for experiments</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Group 2: 07.30 Breakfast at Eagle Holiday Flats</td>
<td></td>
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<td></td>
<td></td>
<td>08.30 Bus departs for Lab.</td>
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<td></td>
<td></td>
<td>09.00 Kurt Hanselmann. <strong>Ecological Concepts.</strong></td>
<td></td>
</tr>
<tr>
<td>Wednesday</td>
<td>08</td>
<td>07.30 Breakfast at Apartments</td>
<td>11.30 Group changes. Group 1 disembarks. Group 2 begins cruise leg 2.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>09.00 Group 2 departs from Henties Bay for cruise leg 2 and pickup of</td>
<td>Group 1: Sample preservation at SANMUARC labs in Henties Bay and moving</td>
</tr>
<tr>
<td></td>
<td></td>
<td>group 1</td>
<td>into appartments</td>
</tr>
<tr>
<td>Thursday</td>
<td>09</td>
<td>07.30 Breakfast at Apartments</td>
<td>Continue working in the lab</td>
</tr>
<tr>
<td></td>
<td></td>
<td>09.00 Kurt Hanselmann. <strong>Ocean Acidification and 3. How to make media.</strong></td>
<td>Analyzing samples, making growth media</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11.00 Work with samples in the lab</td>
<td></td>
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<tr>
<td>Friday</td>
<td>10</td>
<td>07.30 Breakfast at Apartments</td>
<td>Continue working in the lab</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Group 1: 07.30 Breakfast at Apartments</td>
<td>Analyzing samples, preparing growth media</td>
</tr>
<tr>
<td></td>
<td></td>
<td>09.00 Continue working in the lab</td>
<td></td>
</tr>
<tr>
<td>Saturday</td>
<td>11</td>
<td>07.30 Breakfast at Apartments</td>
<td>Group 2 returns from cruise leg 2: Sample preservation at SANMUARC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Group 2 departs from Henties Bay to pickup group 2 from cruise leg 2</td>
<td>labs in Henties Bay and cleaning sampling materials, hard hats, boots,</td>
</tr>
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<td></td>
<td></td>
<td>09.00 Bus departs from Henties Bay</td>
<td>etc.</td>
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<tr>
<td></td>
<td></td>
<td>Continue working in the lab</td>
<td>Moving into Henties Bay appartments</td>
</tr>
<tr>
<td>Sunday</td>
<td>12</td>
<td>Relax, catch up, explore. Breakfast, lunch and dinner on your own.</td>
<td></td>
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<tr>
<td>Mother's Day</td>
<td></td>
<td>Please let us know where you are going, if you are leaving for a</td>
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<td></td>
<td>Sunday excursion alone or as a group.</td>
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<tr>
<td>Week 3</td>
<td>Morning</td>
<td>Afternoon</td>
<td>Evening</td>
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<tr>
<td>Monday</td>
<td>07.30 Bus departs, breakfast at SANUMARC</td>
<td>Continue working in the lab. Analyzing samples, carrying out experiments</td>
<td>19.30 Dinner Activities defined by Participants</td>
</tr>
<tr>
<td></td>
<td>08.30 Kurt Hanselmann. <strong>Catchup week 1 lectures for those who missed them</strong></td>
<td></td>
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<tr>
<td></td>
<td>10.00 Gideon Henderson (recorded). <strong>Taking it back - Removing CO2 from the atmosphere to limit climate change</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday</td>
<td>07.30 Bus departs for breakfast</td>
<td></td>
<td>18.00 Dinner with speakers and guests</td>
</tr>
<tr>
<td></td>
<td>09.15 <strong>Ocean Highlights Symposium</strong> at SANUMARC. Special Program also for campus students and staff.</td>
<td></td>
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</tr>
<tr>
<td>Wednesday</td>
<td>07.30 Bus departs for breakfast</td>
<td>Continue working in the lab. Analyzing samples, carrying out experiments</td>
<td>19.00 Dinner Activities defined by Participants</td>
</tr>
<tr>
<td></td>
<td>08.30 John Compton. <strong>Origin of phosphorite deposits on the Namibian shelf</strong></td>
<td></td>
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<tr>
<td></td>
<td>10.00 Sandy Thomalla. <strong>The role of phytoplankton in mediating global climate through stratus cloud albedo in the Benguela System</strong></td>
<td></td>
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</tr>
<tr>
<td>Thursday</td>
<td>07.30 Bus departs for breakfast</td>
<td>Continue working in the lab. Analyzing samples, carrying out experiments</td>
<td>19.00 Dinner Activities defined by Participants</td>
</tr>
<tr>
<td></td>
<td>08.30 Jake Bailey. <strong>Microbial Metabolisms in the BCE</strong></td>
<td></td>
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<tr>
<td></td>
<td>10.00 Kurt Hanselmann. <strong>Evolution of microbial processes in microaggregate ecosystems</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friday</td>
<td>07.30 Bus departs from flats for breakfast at SANUMARC</td>
<td></td>
<td>18.00 Dinner in Swakopmund Activities defined by Participants</td>
</tr>
<tr>
<td></td>
<td>08.30 Chibo Chikwililwa. <strong>Excursions to sea water desalination plant, oyster hatchery and farm and salt factory.</strong> Special program</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday</td>
<td>07.30 Bus departs for breakfast</td>
<td>Continue working in the lab. Analyzing samples, carrying out experiments</td>
<td>19.00 Dinner Activities defined by Participants</td>
</tr>
<tr>
<td></td>
<td>08.30 Sümeyya Eroglu. <strong>Application of stable isotope geochemistry in marine sciences</strong></td>
<td></td>
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<tr>
<td></td>
<td>10.00 Chibo Chikwililwa. <strong>Understanding HABs in 2019</strong></td>
<td></td>
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<tr>
<td>Sunday</td>
<td>One-day trip to the Namibian Desert Research Station at Gobabeb. Departure 07.30 from appartment. Return ca. 21.30.</td>
<td></td>
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<tr>
<td>Day</td>
<td>Date</td>
<td>Morning</td>
<td>Afternoon</td>
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<tr>
<td>Monday</td>
<td>20</td>
<td>07.45 Bus departs for breakfast at SANUMARC</td>
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<tr>
<td></td>
<td></td>
<td>08.30 <strong>Summarizing results, writing proposals</strong> at SANUMARC.</td>
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<tr>
<td></td>
<td></td>
<td>For those who would like to attend the &quot;Blue Ocean Economy&quot; meeting at Nat MIRC in Swakopmund (Special Program): Transport departs from flats at 08.00. Symposium begins at 09.00 and ends at 15.00</td>
<td></td>
</tr>
<tr>
<td>Tuesday</td>
<td>21</td>
<td>07.45 Bus departs for breakfast</td>
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<tr>
<td></td>
<td></td>
<td><strong>08.30 Summarizing results, writing proposals, preparing presentations, designing posters</strong></td>
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<td></td>
<td></td>
<td>If time allows, begin cleaning up equipment and laboratories</td>
<td></td>
</tr>
<tr>
<td>Wednesday</td>
<td>22</td>
<td>07.30 Bus departs from flats. Breakfast in Swakopmund</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>09.00 <em>Scientific Knowledge applied to the Sustainable Use of Coastal Upwelling Ecosystems</em> organized by Elena Bruni. Special Program</td>
<td></td>
</tr>
<tr>
<td>Thursday</td>
<td>23</td>
<td>07.45 Bus departs for breakfast at SANUMARC</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>08.30 <strong>Cleaning up, packing, storing RGNO equipment, turning over facility to host</strong></td>
<td></td>
</tr>
<tr>
<td>Friday</td>
<td>24</td>
<td><strong>End of RGNO 2019</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Transports to Swakopmund and Walvis Bay airport depart according to sign-up plan</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Name</td>
<td>Instructors</td>
<td>TAs</td>
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<tr>
<td>LB</td>
<td>Luke Bridgestock (U Oxford, UK)</td>
<td>I Y 1,2</td>
<td>S, 1, 2</td>
</tr>
<tr>
<td>JB</td>
<td>Jake Bailey (U Minnesota, USA)</td>
<td>I Y 1</td>
<td>S, 2</td>
</tr>
<tr>
<td>CC</td>
<td>Chibo Chikwillwa (SANUMARC, Namibia)</td>
<td>L H I Y</td>
<td>S, 1, 2</td>
</tr>
<tr>
<td>GH</td>
<td>Gideon Henderson (U Oxford, UK)</td>
<td>Y</td>
<td>S, 1</td>
</tr>
<tr>
<td>KH</td>
<td>Kurt Hanselmann (ETHZ, Switzerland)</td>
<td>I Y</td>
<td>S, 2</td>
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<tr>
<td>RH</td>
<td>Richard Horaeb (NatMIRC, Namibia)</td>
<td>I Y 1,2</td>
<td>S, 1</td>
</tr>
<tr>
<td>PC</td>
<td>Johannes Itembu (Sam Nujoma Campus, UNAM, Namibia)</td>
<td>Y</td>
<td>S, 1</td>
</tr>
<tr>
<td>SM</td>
<td>Sam Mafwila (DFAS; UNAM, Namibia)</td>
<td>H</td>
<td>S, 1, 2</td>
</tr>
<tr>
<td>VM</td>
<td>Volker Mohrholz (Leibnitz Institute for Baltic Sea Research, Germany)</td>
<td>I Y 1,2</td>
<td>S, 2</td>
</tr>
<tr>
<td>DM</td>
<td>Daniel Montluçon (ETHZ, Switzerland)</td>
<td>I Y 1,2</td>
<td>S, 2</td>
</tr>
<tr>
<td>JC</td>
<td>John Compton (UCT, South Africa)</td>
<td>Y</td>
<td>S, 1, 2</td>
</tr>
<tr>
<td>AV</td>
<td>Anja Van Der Plas (MFMR, Namibia)</td>
<td>Y L</td>
<td>S, 1, 2</td>
</tr>
<tr>
<td>SH</td>
<td>Steven Hamutenya (NatMIRC of MFMR, Namibia)</td>
<td>Y</td>
<td>S, 1, 2</td>
</tr>
<tr>
<td>TE</td>
<td>Timothy Eglinton (ETHZ, Zürich, Switzerland)</td>
<td>I Y</td>
<td>S, 1, 2</td>
</tr>
<tr>
<td>CD</td>
<td>Catleen Deelie (UNAM, Namibia)</td>
<td>Y</td>
<td>S, 1, 2</td>
</tr>
<tr>
<td>ST</td>
<td>Sandy Thomalla (CSIR, South Africa)</td>
<td>Y</td>
<td>S, 1</td>
</tr>
<tr>
<td>BC</td>
<td>Bronwen Currie (MFMR, Namibia)</td>
<td>Y</td>
<td>S</td>
</tr>
</tbody>
</table>

Legend:
- Instructor (I)
- Host (H)
- Cruise Leader (C)
- Logistics, Visa, Transport, Housing (L)
- Technical Assistant (T)
- Lecture / Organizer / Speaker / Symposium Speakers (L)
- Student Participant (S)
- Participation in Cruise Leg (TA)
## Overall Workshop Plan

**ROGNO 2019, Time plan**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Productivity</td>
</tr>
<tr>
<td>B</td>
<td>Degratation</td>
</tr>
<tr>
<td>C</td>
<td>Trace Metal, Organics</td>
</tr>
<tr>
<td>D</td>
<td>Sulphidic Symbioses</td>
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</table>

<table>
<thead>
<tr>
<th>Working Groups</th>
<th>A 1 9</th>
<th>B 2 10</th>
<th>C 3 11</th>
<th>D 4 12</th>
<th>E 5 13</th>
<th>F 6 14</th>
<th>G 7 15</th>
<th>H 8 16</th>
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<tbody>
<tr>
<td>Travel: Relaxation</td>
<td>3 days</td>
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<tr>
<td>Symposium / Field</td>
<td>4 days</td>
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<tr>
<td>Lectures / Tutorials / Experiments / Writing</td>
<td>18 days</td>
<td></td>
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<tr>
<td>Cruise incl. Preparation</td>
<td>7 days</td>
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<tr>
<td>Excursions</td>
<td>3 days</td>
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<tr>
<td>Total</td>
<td>27 days</td>
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<tr>
<td>MIEO / Teacher Outreach Course</td>
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<tr>
<td>Total</td>
<td>9 days</td>
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</tbody>
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### Sponsors

- **UNAM**
- **NatMIRC**
- **MFMR**
- **Agouron Institute**
- **ETH Zürich**
- **SiMONS Foundation**
- **Oxford University**
- **i-r+**

---

**Location:** Baja California, Mexico and SCOR Community Base for Oceanography in the Gulf of California.

**Start:** 30th July 2019

**End:** 3rd August 2019

**Deparature:** 5th August 2019

**Duration:** 28 days