Oversikt over tokt og faste oseanografiske stasjoner tatt i 2008

Report on cruises and fixed oceanographic data stations, 2008

Av Vigdis Rong
Charts made by Karen Gjertsen and Svein Erik Enersen ("G. M. Dannevig")
Tittel (norsk/engelsk):
Oversikt over tokt og faste oseanografiske stasjoner tatt i 2008
Report on cruises and fixed oceanographic data stations, 2008

Forfatter(e):
Vigdis Rong. Charts made by Karen Gjertsen and Svein Erik Enersen ("G. M. Dannevig")

Sammendrag (norsk):

Summary (English):
The report presents cruises carried out by the research vessels "G. O. Sars", "Johan Hjort", "Håkon Mosby", "G. M. Dannevig", "Jan Mayen" and some hired commercial fishing vessels on behalf of the Institute of Marine Research and the University of Bergen during 2008. The charts mainly show CTD and trawl stations. Some charts also include plankton stations. Beside tracks and stations, standard sections observed are listed. A separate table lists the number of observations per month for the fixed stations along the Norwegian coast. The cruises are reported to the International Council for the Exploration of the Sea (ICES) in the “Cruise Summary Report”. The data may be requested from the Norwegian Marine Data centre at the Institute of Marine Research.

Emneord (norsk):
1. Kurskart
2. Stasjonskart
3. Toktmetadatala

Subject heading (English):
1. Cruise track chart
2. Station chart
3. Cruise metadata
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## Cruises 2008

### 1.1 G. O. Sars (Ship code no 10)

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<tr>
<th>CRUISE NO</th>
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<th>PURPOSE</th>
<th>AREA</th>
<th>CTD ST</th>
<th>TRAWL ST</th>
<th>PAGE OF CHART</th>
<th>COMMENT</th>
</tr>
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<tbody>
<tr>
<td>2008101</td>
<td>4 Jan – 28 Mar</td>
<td>The project “AKES” (Antarctic Krill and Ecosystem Studies). Krill survey.</td>
<td>Southern oceans (Atlantic and Antarctic)</td>
<td>1</td>
<td>124</td>
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<tr>
<td>2008102</td>
<td>31 Mar – 11 Apr</td>
<td>Gobies.</td>
<td>Namibia</td>
<td>125</td>
<td>176</td>
<td>63 104</td>
<td>21–22</td>
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<tr>
<td>2008103</td>
<td>12 May – 30 May</td>
<td>Ecosystem survey Norwegian Sea. The project “HARVEST” (Harvesting at lower tropic levels), plankton.</td>
<td>Norwegian Sea</td>
<td>177</td>
<td>248</td>
<td>106 128</td>
<td>22–23</td>
</tr>
<tr>
<td>2008104</td>
<td>1 June – 28 June</td>
<td>The project MAREANO, development of lander, mapping of bottom habitats, including coral reefs.</td>
<td>Nordland</td>
<td>249</td>
<td>306</td>
<td>-</td>
<td>23–24</td>
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<tr>
<td>2008105</td>
<td>2 July – 10 Aug</td>
<td>The project “GANS” (Gas Hydrates on the Norway - Barents Sea - Svalbard margin).</td>
<td>Norwegian Sea</td>
<td>307</td>
<td>364</td>
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<td>24</td>
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<tr>
<td>2008108</td>
<td>25 Oct – 29 Oct</td>
<td>Development of lander.</td>
<td>Nordland</td>
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<td>-</td>
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<tr>
<td>2008109</td>
<td>3 Nov – 4 Nov</td>
<td>Educational cruise, (MAR310, University of Bergen) “Marine methods”.</td>
<td>Western Norway</td>
<td>522</td>
<td>523</td>
<td>338 346</td>
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<tr>
<td>2008110</td>
<td>5 Nov – 11 Nov</td>
<td>Educational cruise (GEOL210, University of Bergen). Field course of marine geology and geophysics. Cruise on behalf of Geological Survey of Norway (NGU), bottom corer Trondheimsfjorden.</td>
<td>Western Norway, Trondheimsfjorden</td>
<td>524</td>
<td>530</td>
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<td>2008111</td>
<td>13 Nov – 20 Nov</td>
<td>Oceanographic sections.</td>
<td>Bergen–Bodø</td>
<td>531</td>
<td>550</td>
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<td>30</td>
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<tr>
<td>2008112</td>
<td>20 Nov – 10 Dec</td>
<td>Norwegian spring-spawning herring, developing methods for MS70 sonar, development of lander.</td>
<td>Norwegian Sea</td>
<td>-</td>
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<td>-</td>
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<td>2008107</td>
<td>22 Nov – 3 Dec</td>
<td>Environmental influences of bottom trawling.</td>
<td>Varangerfjorden</td>
<td>551</td>
<td>561</td>
<td>347 366</td>
<td>31–32</td>
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<tr>
<td>2008115</td>
<td>4 Dec – 11 Dec</td>
<td>Development of lander (the HERMES-Lander project). Calibrate and use TOPAS (parametric sub bottom profiler) to study resonance and backscattering from overwintering herring (the project LowFreq). Collect data on the MS70 quantitative multi beam sonar on wintering herring (the Promus project)</td>
<td>Vesterålen</td>
<td>562</td>
<td>563</td>
<td>367 370</td>
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<tr>
<td>2008116</td>
<td>15 Dec 19 Dec</td>
<td>Calibrating acoustic instruments.</td>
<td>Western Norway</td>
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<td>Cancelled</td>
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<tr>
<td>2008117</td>
<td>15 Dec 19 Dec</td>
<td>Stimuli and reaction on fish from vessel noise.</td>
<td>Western Norway</td>
<td>564</td>
<td>566</td>
<td>-</td>
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<tr>
<td>2008113</td>
<td>16 Dec 20 Dec</td>
<td>Calibrating acoustic instruments.</td>
<td>Western Norway</td>
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### 1.2 Johan Hjort (Ship code no 12)

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<tr>
<td>2008201</td>
<td>25 Jan–31 Jan</td>
<td>Plankton transect 01.</td>
<td>Norwegian Sea, Barents Sea</td>
<td>1-13-</td>
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<tr>
<td>2008204</td>
<td>5 Apr–10 Apr</td>
<td>Environmental and plankton investigations on the standard oceanographic transects Gimsøy and Svinøy.</td>
<td>Norwegian Sea, the Gimsøy transect and the Svinøy transect.</td>
<td>254-283-</td>
<td>- -</td>
<td>37</td>
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<tr>
<td>2008206</td>
<td>22 May–8 June</td>
<td>The projects “IPY-Nessar” (Norwegian component of the Ecosystem Studies of Subarctic and Arctic Regions) and “PAME-Nor” (DOC turnover in polar microbial food webs).</td>
<td>Norwegian Sea</td>
<td>411-513-</td>
<td>231-240</td>
<td>40–41</td>
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<td>2008208</td>
<td>1 Sep–16 Sep</td>
<td>Ecosystem survey, Barents Sea. Plankton transect 05.</td>
<td>Barents Sea</td>
<td>647-708-</td>
<td>322-422</td>
<td>43</td>
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<td>2008209</td>
<td>20 Sep–26 Oct</td>
<td>The project “MAREANO”. Plankton transect 06.</td>
<td>Nordland (VI and VII) and Vesterålen</td>
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<td>- -</td>
<td>Cancelled. The tasks are carried out by &quot;G. O. Sars&quot;, cruise no 2008114.</td>
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<tr>
<td>2008210</td>
<td>28 Oct–8 Dec</td>
<td>Ecosystem survey, the coast of Norway.</td>
<td>Varanger-Møre</td>
<td>710-804-</td>
<td>441-573</td>
<td>44–45</td>
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<tr>
<td>2008211</td>
<td>14 Dec–18 Dec</td>
<td>Stimuli and reaction on fish from vessel noise.</td>
<td>Western Norway</td>
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<td>2008601</td>
<td>5 Jan – 31 Jan</td>
<td>International Bottom Trawl Survey (IBTS) 1. quarter.</td>
<td>North Sea</td>
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<tr>
<td>2008602</td>
<td>4 Feb – 21 Feb</td>
<td>Shrimps investigations.</td>
<td>Skagerrak, North Sea.</td>
<td>56</td>
<td>154</td>
<td>39 111 47</td>
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<td>2008603</td>
<td>23 Feb – 6 Mar</td>
<td>Educational cruise (GEOF 332, University of Bergen). Oceanography.</td>
<td>Western Norway</td>
<td>155</td>
<td>286</td>
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<td>48</td>
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<td>2008604</td>
<td>7 Mar – 9 Mar</td>
<td>Geophysical cruise.</td>
<td>Western Norway</td>
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<td>2008605</td>
<td>10 Mar – 13 Mar</td>
<td>Educational cruise (GEOF 231, University of Bergen).</td>
<td>Western Norway</td>
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<td>2008607</td>
<td>25 Mar – 29 Mar</td>
<td>The project ”DAMOCLES” (Developing Arctic Modeling and Observing Capabilities for Long-term Environmental Studies).</td>
<td>The Svinøy transect</td>
<td>289</td>
<td>292</td>
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<td>49</td>
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<td>2008608</td>
<td>31 Mar – 1 Apr</td>
<td>Educational cruise (GEOF 130, University of Bergen). Oceanography.</td>
<td>Byfjorden, Bergen.</td>
<td>293</td>
<td>304</td>
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<td>49</td>
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<td>2008609</td>
<td>2 Apr – 18 Apr</td>
<td>Herring larvae survey.</td>
<td>Western Norway</td>
<td>305</td>
<td>477</td>
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<td>50</td>
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<tr>
<td>2008624</td>
<td>12 May – 16 May</td>
<td>A physical oceanography cruise to deploy 11 moorings on the Faroe bank channel to study the mixing of the Faroe bank channel overflow plume.</td>
<td>Faroe bank</td>
<td>-</td>
<td>-</td>
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<td>No CTD</td>
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<tr>
<td>2008625</td>
<td>25 May – 27 May</td>
<td>Oil spill at Statfjord A.</td>
<td>Western Norway</td>
<td>478</td>
<td>492</td>
<td>112 119 51</td>
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<tr>
<td>2008610</td>
<td>29 May – 8 June</td>
<td>The project ”BIAC” (Bipolar Atlantic Thermohaline Circulation).</td>
<td>Faroe bank</td>
<td>493</td>
<td>555</td>
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<td>51</td>
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<tr>
<td>2008611</td>
<td>9 June – 4 July</td>
<td>Mackerel eggs.</td>
<td>North Sea</td>
<td>556</td>
<td>719</td>
<td>119 127 52</td>
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<tr>
<td>2008612</td>
<td>6 July – 7 July</td>
<td>Whale observations.</td>
<td>Korsfjorden</td>
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<tr>
<td>2008615</td>
<td>19 Aug – 1 Sep</td>
<td>The project ”SVALEX”.</td>
<td>Svalbard</td>
<td>780</td>
<td>780</td>
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<td>54</td>
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### Håkon Mosby (cont.)

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<tr>
<td>2008616</td>
<td>3 Sep – 15 Sep</td>
<td>Educational cruise (AGF 214, The University Centre in Svalbard). Polar Ocean Climate.</td>
<td>Svalbard</td>
<td>54</td>
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<tr>
<td>2008617</td>
<td>18 Sep – 1 Oct</td>
<td>The project &quot;BIAC&quot; (Bipolar Atlantic Thermohaline Circulation). Storfjorden, Lofoten–Barents Sea. Experiment.</td>
<td>Svalbard, Norwegian Sea</td>
<td>55</td>
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<tr>
<td>2008618</td>
<td>6 Oct – 10 Oct</td>
<td>The project &quot;DAMOCLES&quot; (Developing Arctic Modeling and Observing Capabilities for Long-term Environmental Studies). The Svinøy section.</td>
<td>The Svinøy transect</td>
<td>56</td>
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<tr>
<td>2008622</td>
<td>29 Oct – 5 Nov</td>
<td>Oceanographic sections.</td>
<td>North Sea</td>
<td>58</td>
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<tr>
<td>2008623</td>
<td>6 Nov – 18 Dec</td>
<td>Ecosystem survey.</td>
<td>Norwegian fjords and coast areas from Oslofjorden to Vestfjorden.</td>
<td>59–59</td>
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### 1.4 Jan Mayen (Ship code no 19)

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<td>2008701</td>
<td>1 Feb – 6 Mar</td>
<td>Ecosystem survey.</td>
<td>Norwegian Sea, Barents Sea.</td>
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<td>2008702</td>
<td>24 Apr – 18 May</td>
<td>The project “IPY-Nessar” (Norwegian component of the Ecosystem Studies of Subarctic and Arctic Regions).</td>
<td>Western Entrance to the Barents Sea, south from Bear Island. Storbanken. Hopen Bank.</td>
<td>61–62</td>
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<tr>
<td>2008704</td>
<td>29 June – 12 July</td>
<td>Hooded seal surveys.</td>
<td>Greenland Sea</td>
<td>62–64</td>
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<td>2008703</td>
<td>8 Sep – 4 Oct</td>
<td>Ecosystem survey Barents Sea.</td>
<td>The area west, north and east of Svalbard.</td>
<td>64–65</td>
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### 1.5 G.M. Dannevig (Ship code no 16)

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<tr>
<td>2008301</td>
<td>8 Jan - 15 Jan</td>
<td>Hydrographic standard section “Torungen–Hirtshals”, environmental monitoring on a near shore station outside Arendal and in the fjords along the Norwegian Skagerrak coast.</td>
<td>Skagerrak, Norwegian coast of Skagerrak</td>
<td>1</td>
<td>34</td>
<td>67</td>
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<tr>
<td>2008302</td>
<td>5 Feb - 11 Feb</td>
<td>Hydrographic standard section “Torungen–Hirtshals”, environmental monitoring on a near shore station outside Arendal and in the fjords along the Norwegian Skagerrak coast.</td>
<td>Skagerrak, Norwegian coast of Skagerrak</td>
<td>35</td>
<td>68</td>
<td>67</td>
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<tr>
<td>2008303</td>
<td>4 Mar - 8 Mar</td>
<td>Hydrographic standard section “Torungen–Hirtshals”, environmental monitoring on a near shore station outside Arendal and in the fjords along the Norwegian Skagerrak coast.</td>
<td>Skagerrak, Norwegian coast of Skagerrak</td>
<td>69</td>
<td>92</td>
<td>68</td>
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<td>2008304</td>
<td>27 Mar - 10 Apr</td>
<td>Habitat mapping (spawning grounds). Long-term environmental monitoring on a near shore station outside Arendal.</td>
<td>Norwegian coast of Skagerrak</td>
<td>93</td>
<td>101</td>
<td>68</td>
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<tr>
<td>2008305</td>
<td>11 Apr - 2 May</td>
<td>Long-term environmental monitoring on a nearshore station outside Arendal and environmental investigation in the eastern North Sea, the Skagerrak and Kattegat after the spring bloom.</td>
<td>Eastern North Sea, Skagerrak, Kattegat</td>
<td>102</td>
<td>233</td>
<td>69</td>
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<tr>
<td>2008306</td>
<td>7 June - 15 June</td>
<td>Hydrographic standard section “Torungen–Hirtshals”, environmental monitoring on a near shore station outside Arendal and in the fjords along the Norwegian Skagerrak coast.</td>
<td>Skagerrak, Norwegian coast of Skagerrak</td>
<td>234</td>
<td>269</td>
<td>69</td>
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<tr>
<td>2008307</td>
<td>16 June - 19 June</td>
<td>Studies of fish populations using beach seine.</td>
<td>Norwegian coast of Skagerrak</td>
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<td>2008308</td>
<td>27 July - 27 July</td>
<td>Hydrographic standard section “Torungen–Hirtshals”, environmental monitoring on a near shore station outside Arendal.</td>
<td>Skagerrak</td>
<td>270</td>
<td>281</td>
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<td>2008309</td>
<td>12 Aug - 12 Aug</td>
<td>Hydrographic standard section “Torungen–Hirtshals”, environmental monitoring on a near shore station outside Arendal.</td>
<td>Skagerrak</td>
<td>282</td>
<td>293</td>
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<td>2008310</td>
<td>14 Aug - 28 Aug</td>
<td>Monitoring lobster/MPA. Habitats mapping. Long-term environmental monitoring in the fjords along the Norwegian coast and on a near shore station outside Arendal.</td>
<td>Norwegian coast of Skagerrak</td>
<td>294 - 320</td>
<td>70</td>
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<tr>
<td>2008311</td>
<td>13 Sep - 5 Oct</td>
<td>Hydrographic standard section “Torungen–Hirtshals”, environmental investigation. Studies of fish populations using beach seine. Long-term environmental monitoring on a nearshore station outside Arendal and in the fjords along the Norwegian Skagerrak coast.</td>
<td>Skagerrak, Norwegian coast of Skagerrak</td>
<td>321 - 388</td>
<td>70</td>
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<td>2008313</td>
<td>4 Nov - 5 Nov</td>
<td>Hydrographic standard section “Torungen–Hirtshals”, environmental investigation. Long-term environmental monitoring on a near shore station outside Arendal.</td>
<td>Skagerrak</td>
<td>401 - 412</td>
<td>66</td>
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<td>2008314</td>
<td>6 Nov - 4 Dec</td>
<td>Contaminants in seafood – Grenland. Fish community studies in marine protected area and resource studies in coastal cod. Long-term environmental monitoring on a near shore station outside Arendal and in the fjords along the Norwegian Skagerrak coast.</td>
<td>Skagerrak, Norwegian coast of Skagerrak</td>
<td>413 - 434</td>
<td>71</td>
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<td>2008315</td>
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<td>Hydrographic standard section “Torungen–Hirtshals”, environmental investigation. Long-term environmental monitoring on a near shore station outside Arendal.</td>
<td>Skagerrak</td>
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### 1.6 Some cruises carried out by hired fishing vessels

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<th>VESSEL</th>
<th>PURPOSE</th>
<th>AREA</th>
<th>CTD ST</th>
<th>TRAWL ST</th>
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<td>2008804</td>
<td>1 Feb – 29 Feb</td>
<td>Libas</td>
<td>Spawning migration of Atlantic herring and target strength of capelin.</td>
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<td>Biological sampling of capelin.</td>
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<td>26 Mar – 7 Apr</td>
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<td>Acoustic abundance measurements of blue whiting and measurements of hydrographic conditions.</td>
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<td>Part of the ICES PGNAPES international survey. Trawl acoustic stock estimate of Norwegian spring spawning herring and blue whiting. Hydrographic stations and plankton stations.</td>
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<td>Atlantic Star</td>
<td>To measure the horizontal and vertical distribution of beaked redfish (Sebastes mentella) in the Norwegian Sea and provide an abundance estimate</td>
<td>From 70°40’N to 74°00’N and from 2°30’E to 17°18’E</td>
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<td>Tagging of juvenile Greenland halibut.</td>
<td>Kong Karls Land (east of Spitsbergen), Hinlopen (north of Spitsbergen) and the continental shelf north west of Spitsbergen.</td>
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2 Charts – overview

2.1 CTD stations 2008

- CTD stations

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2.2 Oceanographic sections

Norwegian Sea and Barents Sea

North Sea, Skagerrak and Kattegat

2.3 Fixed oceanographic stations
### 3 Tables – Observations in 2008

#### 3.1 Standard oceanographic sections 2008 (Cruise no/ship)

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### Standard sections

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### Other oceanographic sections 2008

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3.2 Other oceanographic sections 2008
### 3.3 Fixed oceanographic stations 2008

(No of observations)

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4 Charts for cruises 2008

4.1 G.O. Sars

Cruise no 2008101
“G.O. Sars”

4 Jan – 28 Mar 2008
z CTD st.no 1–124
o WP-II-net st.
◊ Mocness st.

Cruise no 2008101
“G.O. Sars”

4 Jan – 28 Mar 2008
△ Trawl st. no 1–62
Cruise no 2008102
“G.O. Sars”
31 Mar–11 Apr 2008

z CTD st.no 125–176
O WP-II-net st.
◊ Mocness st.

Cruise no 2008102
“G.O. Sars”
31 Mar–11 Apr 2008

Trawl st.no 63–104
Δ Pelagic trawl
□ Bottom trawl
Cruise no 2008102
“G.O. Sars”
31 Mar–11 Apr 2008
● Grab stations

Cruise no 2008103
“G.O. Sars”
12–30 May 2008
z CTD st.no 177–248
o Plankton st. (WP-II-net)
◆ Plankton st. (Mocness)
O Standard sections
Gimsøy-NW st.no 118–238
Cruise no 2008103
“G.O. Sars”
12–30 May 2008

Trawl st.no 106–128
Δ Pelagic trawl
□ Bottom trawl

Cruise no 2008104
“G.O. Sars”
1–28 June 2008

z CTD st.no 249–306
Ø Plankton st. (WP-II-net)
Standard section
Fugløya–Bjørnøya st.no 287–306
Cruise no 2008104
“G.O. Sars”
1–28 June 2008

■ Grab stations

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Cruise no 2008105
“G.O. Sars”
2 July–10 Aug 2008

z CTD st.no 307–364
○ Plankton st. (WP-II-net)
Cruise no 2008106
“G.O. Sars”
19 Aug–30 Sep 2008

z CTD st.no 365–495
O Plankton st. (WP-II-net)
◆ Plankton st. (Mocness)
Standard sections
Bjørnøya-W: st.no 374–386

Cruise no 2008106
“G.O. Sars”
19 Aug–30 Sep 2008

Trawl st.no 129–336
▲ Pelagic trawl
□ Bottom trawl
● St.no 316 and 317 are beamtrawl
Cruise no 2008106
“G.O. Sars”
19 Aug–30 Sep 2008

● Grab stations

● Beam trawl stations
Cruise no 2008114
“G.O. Sars”
2–31 Oct 2008

z CTD st.no 496–521

Cruise no 2008114
“G.O. Sars”
2–31 Oct 2008

● Grab stations
Cruise no 2008114
“G.O. Sars”
2–31 Oct 2008

- Beam trawl stations

Cruise no 2008114
“G.O. Sars”
2–31 Oct 2008

- Sled stations
Cruise no 2008114
“G.O. Sars”
2–31 Oct 2008

- Video stations

Cruise no 2008109
“G.O. Sars”
3–4 Nov 2008

Trawl st.no 338–346
▲ Pelagic trawl
■ Bottom trawl
Cruise no 2008110
“G.O. Sars”
5–11 Nov 2008
z CTD st.no 524–530

Cruise no 2008111
“G.O. Sars”
13–20 Nov 2008
z CTD st.no 531–550
O Plankton st. (WP-II-net)
◆ Plankton st. (Mocness)
Standard sections:
Svinøy-NW: st.no 531–543
Gimsøy-NW: st.no 544–550
Cruise no 2008107
“G.O. Sars”
22 Nov–3 Dec 2008
z CTD st.no 551–561

Cruise no 2008107
“G.O. Sars”
22 Nov–3 Dec 2008
☐ Bottom trawl st.no 347–366
Cruise no 2008107
“G.O. Sars”
22 Nov–3 Dec 2008

- Grab station

Cruise no 2008107
“G.O. Sars”
22 Nov–3 Dec 2008

- 3 ROV stations
Cruise no 2008115
“G.O. Sars”
4–11 Dec 2008

z CTD st.no. 562–563

Cruise no 2008115
“G.O. Sars”
4–11 Dec 2008

▲ Pelagic trawl st.no 367–370
4.2 Johan Hjort

Cruise no 2008201
“Johan Hjort”
25–31 Jan 2008

- CTD st.no 1–13
- Plankton st. (WP-II-net)
  - Standard section:
    - Svinøy-NW: st.no 1–13

Cruise no 2008202
“Johan Hjort”
1 Feb–14 Mar 2008

- CTD st.no 14–105
- Plankton st. (WP-II-net)
- Plankton st. (Mocness)
  - Standard sections:
    - Vardø-N: st.no 64–83
    - Fugløya–Bjørnøya st.no 86–105
Cruise no 2008202
“Johan Hjort”
1 Feb–14 Mar 2008
Trawl st.no 1–174
□ Bottom trawl
▲ Pelagic trawl

Cruise no 2008203
“Johan Hjort”
17 Mar–5 Apr 2008
Z CTD st.no 106–253
○ Plankton st. (WP-II-net)
Hydrographic sections:
Tennholmen–Røst
Ballstad–Måløy/Skarholmen
Kabelvåg–Steigen
Cruise no 2008203
“Johan Hjort”
17 Mar–5 Apr 2008
Trawl st.no 175–203
- Bottom trawl
- Pelagic trawl

Cruise no 2008204
“Johan Hjort”
5–10 Apr 2008
z CTD st.no 254–283
o Plankton st. (WP-II-net)
♦ Plankton st. (Mocness)
Standard sections:
Gimsøy-NW st.no 254–266
Svinøy-NW st.no 267–283
Cruise no 2008205
“Johan Hjort”
12 Apr–19 May 2008

z CTD st.no 284–410
o Plankton st. (WP-II-net)
◆ Plankton st. (Mocness)

Standard sections:
Fedje–Sjetland st.no 284–306
Utsira-W st.no 307–338
Jærens Rev-SW and W st.no 339–348
Hanstholm–Aberdeen st.no 349–374
Egerøya st. no 375–382
Lista-SW st.no 383–388
Lindesnes st.no 389–394

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Cruise no 2008205
“Johan Hjort”
12 Apr–19 May 2008

Trawl st.no 204–230
□ Bottom trawl
▲ Pelagic trawl st.no 207–208
Cruise no 2008205
“Johan Hjort”
12 Apr–19 May 2008

- Grab stations

X Skrape stations
Cruise no 2008206
“Johan Hjort”
22 May–8 June 2008

- CTD st.no 411–513
- Plankton st. (WP-II-net)
- Plankton st. (Mocness)

Standard sections:
Svinøy-NW st.no 411–427

Cruise no 2008206
“Johan Hjort”
22 May–8 June 2008

▲ Pelagic trawl st.no 231–240
Cruise no 2008206
“Johan Hjort”
22 May–8 June 2008

▼ Recovered/deployed moorings

Cruise no 2008207
“Johan Hjort”
8–31 July 2008

▼ CTD st.no 514–646
○ Plankton st. (WP-II-net)
◆ Plankton st. (Mocness)

Standard sections:
Hanstholm–Aberdeen
(partly) st.no 515–531
Utsira-W st.no 557–586
Fedje–Shetland st.no 622–646
Cruise no 2008207
"Johan Hjort"
8–31 July 2008

Trawl st.no 241–321
▲ Pelagic trawl
□ Bottom trawl

Cruise no 2008207
"Johan Hjort"
8–31 July 2008

● Grab stations
Cruise no 2008208
“Johan Hjort”
1–16 Sep 2008

*z CTD st.no 647–708
○ Plankton st. (WP-II-net)
◆ Plankton st. (Mocness)

Standard sections:
Fugløya-Bjørnøya st.no 647–666

Cruise no 2008208
“Johan Hjort”
1–16 Sep 2008

Trawl st.no 322–422
☐ Bottom trawl
▲ Pelagic trawl
Cruise no 2008212
“Johan Hjort”
17–27 Oct 2008
z CTD st.no 709
Trawl st.no 423–440
□ Bottom trawl
▲ Pelagic trawl

Cruise no 2008210
“Johan Hjort”
28 Oct–8 Dec 2008
z CTD st.no 710–804
Cruise no 2008210
“Johan Hjort”
28 Oct–8 Dec 2008

Trawl st.no 441–573
▲ Pelagic trawl
□ Bottom trawl

- Grab stations
4.3 Håkon Mosby

Cruise no 2008601
“Håkon Mosby”
5–31 Jan 2008

- CTD st.no 1–55
- Plankton st. (WP-II-net)
- Standard sections:
Utsira-W st.no 1–20

Cruise no 2008601
“Håkon Mosby”
5–31 Jan 2008

- Bottom trawl st.no 1–38
Cruise no 2008601
“Håkon Mosby”
5–31 Jan 2008

- MIK stations (Methot Isaac Kidd)

Cruise no 2008602
“Håkon Mosby”
4–21 Feb 2008

- CTD st. no 56–154
  (st. no 139 is missing)
- Plankton st. (WP-II-net)
- Standard sections:
  Hanstholm–Aberdeen
  st. no 111–136

Cruise no 2008602
“Håkon Mosby”
4–21 Feb 2008

- Bottom trawl st. no 39–111
Cruise no 2008603
“Håkon Mosby”
23 Feb–6 Mar 2008
z CTD st.no 155–286

Cruise no 2008606
“Håkon Mosby”
14–15 Mar 2008
z CTD st.no 287–288
Cruise no 2008607
“Håkon Mosby”
25-29 Mar 2008
z CTD st.no 289–292
▼ Recovery and deployment of moorings

Cruise no 2008608
“Håkon Mosby”
31 Mar–1 Apr 2008
z CTD st.no 293–304
Cruise no 2008609
“Håkon Mosby”
2–18 Apr 2008
z. CTD st.no 305–477
○ Plankton st. (WP-II-net)

Cruise no 2008624
“Håkon Mosby”
12–16 May 2008
Cruise track
Cruise no 2008625
“Håkon Mosby”
25–27 May 2008
z CTD st.no 478–492
o Plankton st. (WP-II-net)

Cruise no 2008625
“Håkon Mosby”
25–27 May 2008
□ Bottom trawl st.no 112–119

Cruise no 2008610
“Håkon Mosby”
29 May–8 June 2008
z CTD st.no 493–555
Cruise no 2008611
“Håkon Mosby”
9 June–4 July 2008

z CTD st.no 556–719
Gulf III (plankton) at every ctd st. except st. no 559 and 640

▲ Pelagic trawl st.no 119–127
Cruise no 2008613
“Håkon Mosby”
8–21 July 2008

- CTD st.no 720–770
- Plankton st. (WP-II-net)
- Plankton st. (Mocness)
- Deployed/recovered moorings

Standard sections:
- Svinøy-NW st.no 720–734
- Gimsøy-NW st.no 735–744
- Vardø-N st.no 747–768

Cruise no 2008614
“Håkon Mosby”
23 July–18 Aug 2008

- CTD st.no 771–779

14–18 Aug 2008
Nansen Environmental and Remote Sensing Center:
Deployment of tomography moorings, transponders and Mclaine profiler
Cruise no 2008615
“Håkon Mosby”
19 Aug–1 Sep 2008
z CTD st.no 780
16 2D profiles of multichannel seismic data

Cruise no 2008616
“Håkon Mosby”
3–15 Sep 2008
z CTD st.no 781–957
Recovering moorings, gliders – and bottom frames
Cruise no 2008618
“Håkon Mosby”
6–10 Oct 2008

- CTD st.no 1007–1010
- Service of the current meter array in the Svinøy section
- Recovery of MMP-mooring and data transmission
- Deployment of SVP drifters

Cruise no 2008619
“Håkon Mosby”
16–22 Oct 2008

- Standard section: Feie–Shetland
- CTD st.no 1011–1034
Cruise no 2008619
“Håkon Mosby”
16–22 Oct 2008

5 trawl st. without no.
▲ Pelagic stations
□ Bottom stations

Cruise no 2008620
“Håkon Mosby”

Cruise track
Cruise no 2008622
“Håkon Mosby”
29 Oct–5 Nov 2008

z CTD st.no 1035–1090
Ø Plankton st. (WP-II-net)
Standard sections:
Utsira-W st.no 1035–1053 (patly)
Hanstholmen–Aberdeen st.no 1054–1079
Oksøy–Hanstholm st.no 1080–1090

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Cruise no 2008623
“Håkon Mosby”
6 Nov–18 Dec 2008

z CTD st.no 1091–1205
Cruise no 2008623
“Håkon Mosby”
6 Nov–18 Dec 2008

Trawl st.no 124–273
□ Bottom trawl
▲ Pelagic trawl

Cruise no 2008623
“Håkon Mosby”
6 Nov–18 Dec 2008

● Plankton st. (WP-II-net)
Cruise no 2008701
“Jan Mayen”
1 Feb–6 Mar 2008

z  CTD st.no 72–131
○ Plankton st. (WP-II-net)
Standard section:
  Fugløya–Bjørnøya st.no 72–87

Cruise no 2008701
“Jan Mayen”
1 Feb–6 Mar 2008

Trawl st.no 256–426
□ Bottom trawl
▲ Pelagic trawl
Cruise no 2008702
“Jan Mayen”
24 Apr–18 May 2008

- CTD st.no 132–296
- Plankton stations
Standard section:
Fugløya–Bjørnøya st.no 139–158

Cruise no 2008702
“Jan Mayen”
24 Apr–18 May 2008

- Pelagic trawl st.no 211–222
- Grab stations
Cruise no 2008702
“Jan Mayen”
24 Apr–18 May 2008
x Light Spectra profiles

Cruise no 2008704
“Jan Mayen”
29 June–12 July 2008
z CTD st.no 309–316
o Plankton st. (WP-II-net)
Cruise no 2008704
“Jan Mayen”
29 June–12 July 2008

- Bottom trawl st.no 226–231

Cruise no 2008704
“Jan Mayen”
29 June–12 July 2008

- Agassiz trawl for benthos
Cruise no 2008704
“Jan Mayen”
29 June–12 July 2008

Drift buoys

Cruise no 2008703
“Jan Mayen”
8 Sep–4 Oct 2008

z CTD st.no 396–443
● Grab stations
Cruise no 2008703
“Jan Mayen”
8 Sep–4 Oct 2008

Trawl st.no 245–401
☐ Bottom trawl
▲ Pelagic trawl
4.5 G.M. Dannevig

Standard section Torungen–Hirtshals 2008

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<td>2008302</td>
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<td>2008305</td>
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<td>June</td>
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<td>September</td>
<td>2008311</td>
<td>321–332</td>
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<td>October</td>
<td>2008312</td>
<td>389–400</td>
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<td>November</td>
<td>2008313</td>
<td>401–412</td>
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<td>December</td>
<td>2008315</td>
<td>435–446</td>
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Cruise no 2008301
“G.M. Dannevig”
8–15 Jan 2008
z CTD st.no 1–34

Cruise no 2008302
“G.M. Dannevig”
5–11 Feb 2008
z CTD st.no 35–68
Cruise no 2008303
“G.M. Dannevig”
4–8 Mar 2008
z CTD st.no 69–92

Cruise no 2008304
“G.M. Dannevig”
27 Mar–10 Apr 2008
z CTD st.no 93–101
Cruise no 2008305
“G.M. Dannevig”
11 Apr–2 May 2008
z CTD st.no 102–233

Standard sections:
Oksøy–Hanstholm st.no 114–125
Torungen–Hirtshals st.no 102–113, 222-233
Jomfruland–Skagen st.no 210–221
Jomfruland–Koster st.no 180–186
Torbjørnskjær st.no 187
Väderø st.no 169–174
Måseskjær st.no 160–168
Göteborg–Fredrikshavn st.no 154–159

Cruise no 2008306
“G.M. Dannevig”
7–15 June 2008
z CTD st.no 234–269
Cruise no 2008310
“G.M. Dannevig”
14–28 Aug 2008
z CTD st.no 294–320

Cruise no 2008311
“G.M. Dannevig”
13 Sep–5 Oct 2008
z CTD st.no 321–388
Cruise no 2008314
“G.M. Dannevig”
6 Nov–4 Dec 2008
z CTD st. no 413–434
4.6 Some cruises carried out by hired fishing vessels

Cruise no 2008804
“Libas”
1–29 Feb 2008

Part II: 15–29 Feb:
\( z \) CTD st.no 1–32

Cruise no 2008804
“Libas”
1–29 Feb 2008

Part I: 1–14 Feb:
\( \blacktriangle \) Pelagic trawl st.no 1–16
Cruise no 2008804
“Libas”
1–29 Feb 2008

Part II: 15–29 Feb:
▲ Pelagic trawl st.no 17–42

Cruise no 2008804
“Libas”
1–29 Feb 2008

Part II: 15–29 Feb:
● Acoustic target-strength measurements of capelin
Cruise no 2008803
“Eros”
2 Feb–2 Mar 2008
z CTD st.no 1–84

Cruise no 2008803
“Eros”
2 Feb–2 Mar 2008
▲ Pelagic trawl st.no 1–42
Cruise no 2008834 Part I
“Nybo”
28 Feb–16 Mar
★ Purse seine st.no 1–9

Cruise no 2008809
“Gardar”
26 Mar–7 Apr 2008
z CTD st.no 1–26
▲ Pelagic trawl st.no 1–8
Cruise no 2008834 Part II
“Nybo”
1–25 May 2008

z CTD st.no 2–31
○ Plankton st. (WP-II-net)

Cruise no 2008834 Part II
“Nybo”
1–25 May 2008

▲ Pelagic trawl st.no 1–25
⊗ Purse seine st.no 26–38
Cruise no 2008823
“Eros”
30 June–9 Aug 2008
z CTD st.no 20–53

▲ Pelagic trawl st.no 26–78
Cruise no 2008822 part I
“Atlantic Star”
1–9 Aug 2008

▲ Pelagic trawl st.no 1–39
Cruise no 2008822 part II
“Atlantic Star”
11–24 Aug 2008

z CTD st.no 1–24

▲ Pelagic trawl st.no 1–24
(3 trawl hauls in each position)
Cruise no 2008824
“Atlantic Viking”
1–15 Sep 2008
z CTD st.no 1–62

Cruise no 2008824
“Atlantic Viking”
1–15 Sep 2008
Bottom trawl st.no 1–63
Cruise no 2008826
“Atlantic Viking”
3–14 Nov 2008
- Bottom trawl st.no 1–56