

Cruise Report: 13.05. – 29.05.2012

R.V. Alkor

Cruise No.:AL 392

General subject of research: Physical, chemical, biological and fishery oceanography

Port calls: Ystad, Sweden 20.05.2012 – 21.05.2012

Helmholtz Centre for Ocean Research Kiel GEOMAR: Marine Ecology, Evolutionary Ecology of Marine Fishes (FB3)

Chief Scientist: Dr. Holger Haslob

Number of Scientists: 11

Projects: CAVIAR, EPOCA, CALMARO, DFG-Mnemiopsis, POPDYN

Research programme

This multidisciplinary cruise was conducted within the framework of several ongoing research projects and to maintain a monitoring time series which is conducted in the Bornholm Basin since 1987 by the Helmholtz Centre for Ocean Research Kiel GEOMAR (former IFM-GEOMAR Kiel, former IfM Kiel). Research activities were also conducted in the Kiel Bight, Arkona Basin, Gdansk Deep and Southern Gotland Basin (Fig. 1). Investigations considered hydrographic measurements, ichthyo- and zooplankton distributions, and the distribution and abundance of pelagic clupeid and gadoid fish species. The physical measurements conducted in the Bornholm Basin were designed to investigate the quasi-synoptic three-dimensional distribution of temperature, salinity and oxygen (CAVIAR). Further, a pH-sensor was attached to the CTD to address acidification of the water column (EPOCA/CALMARO). An 8 x 10 nm station grid (45 stations) was covered with CTD casts in the Bornholm Basin. On the same stations Bongo-casts were conducted in order to assess the abundance, biomass, production and nutritional condition of zoo- and ichthyoplankton. Further, emphasis was given on the meso- to small-scale horizontal distribution of their main vertebrate and invertebrate predators (DFG-Mnemiopsis/DTU-AQUA). Pelagic fishery hauls were conducted to collect clupeid stomachs and cod single fish data (DTU-AQUA). Stock structure, gonadal maturation and egg production of sprat and cod was investigated (POPDYN). Further, mature female and male cod were caught for artificial fertilization to conduct experiments.

Gears used

Hydrography: ADM-CTD with pH and O₂ sensor, Hydrobios Water Sampler with CTD

Zooplankton: Baby Bongo-Net (150 µm), Bongo-Net (335µm), Bongo Net (500µm), WP2 (200µm).

Ichthyoplankton: Bongo-Net (335µm and 500 µm), Hydrobios MAXI Multinet (335µm horizontal tows), Hydrobios MIDI Multinet (335µm), IKS80 (500µm)

Fish: Jungfisch Trawl (pelagic trawl)

Hydroacoustic: 38, 70, 120 and 200 kHz-echosounder

Scientific crew:

- Holger Haslob	(Chief Scientist)	GEOMAR Kiel	whole cruise
- Svend Mees		GEOMAR Kiel	whole cruise
- Andrea Franke		GEOMAR Kiel	whole cruise
- Jan Dierking		GEOMAR Kiel	whole cruise
- David Haase		GEOMAR, Kiel	whole cruise
- Hans-Harald Hinrichsen		GEOMAR, Kiel	whole cruise
- Laura Meskendahl		IHF, Hamburg	whole cruise
- Elizandro Henrique Rodriguez		Cape Verde University	whole cruise
- Josefine Gaede		Trainee	whole cruise
- Isabell Keller		Trainee	whole cruise

Summary of cruise

The cruise started as scheduled, RV Alkor left Kiel 13th May 08:00. The first stations were covered in the Kiel Bight the same day deploying CTD, Bongo nets, WP2, the MIDI multinet, and two fishery hauls. The next two days station work and fishery hauls were conducted in the Arkona Basin and the Gdansk Deep. Due to health problems of one sailor the cruise was interrupted after the fishery in the Gdansk Basin. The man was disembarked in Gdynia 15th May 18:00. The cruise was continued 2h later heading to the Gotland Basin. The following two days fishery hauls, CTD, and IKS-80 were conducted in this area. From the Gotland Basin Alkor sailed to the Bornholm Basin where two acoustic transects were completed. Five fishery hauls were conducted on each transect and the hydrography was recorded on a fine scale level with a towed CTD system. When the second transect was completed the cruise was interrupted and Alkor sailed to Ystad in Sweden. Ystad port was reached 20th May 10:00. Alkor left Ystad the next day 18:00 heading to the first plankton station in the south western part of the Bornholm Basin. The next days the station grid in the Bornholm Basin and stations in the Stolper Trench were covered with bongo and CTD casts. Additionally, a transect in the Stolper Trench was covered with the towed CTD system. On selected stations a WP-2 net was deployed. On a central position in the Bornholm Basin the distribution of fish and ichthyoplankton and hydrographic conditions were recorded on a small scale (25th to 26th May St. 368 – St. 384). Therefore, multinet casts were performed to resolve the vertical distribution of ichthyo- and zooplankton. Fishery hauls (5) and bongo casts were performed on a nine stations grid with at least 3 nautical miles distance between stations. The area was additionally covered with acoustic transects and towed CTD casts. On the 27th May 5 fishery hauls were performed on selected stations in the western part of the Bornholm Basin. After the last haul (27th May 14:20) research work was completed and Alkor sailed back to Kiel arriving there 28th May. The ship was unloaded 29th May and cruise ended the same day.

In conclusion the cruise was very successful. Due to good weather conditions and an efficient functioning of all gears and facilities in use, the whole work plan of the cruise was accomplished. A cruise track (Fig. 1), an overview of gear deployments (Tab. 1) and a detailed station list (Tab. 2) is given below. Thanks to Captain Lass and his crew of RV Alkor for the outstanding support during the whole cruise!

Tab. 1: Overview of gear deployment. Mesh size is given in brackets.

Gear	Number of deployments
ADM-CTD	68
Towed CTD	8
Watersampler	19
Bongo- Babybongo (150 μ , 335 μ , 500 μ)	71
WP2 (200 μ)	9
Maxi Multinet horizontal (335 μ)	7
Midi Multinet (335 μ)	3
IKS80 (500 μ)	21
pelagic trawl (Jungfischtrawl)	41

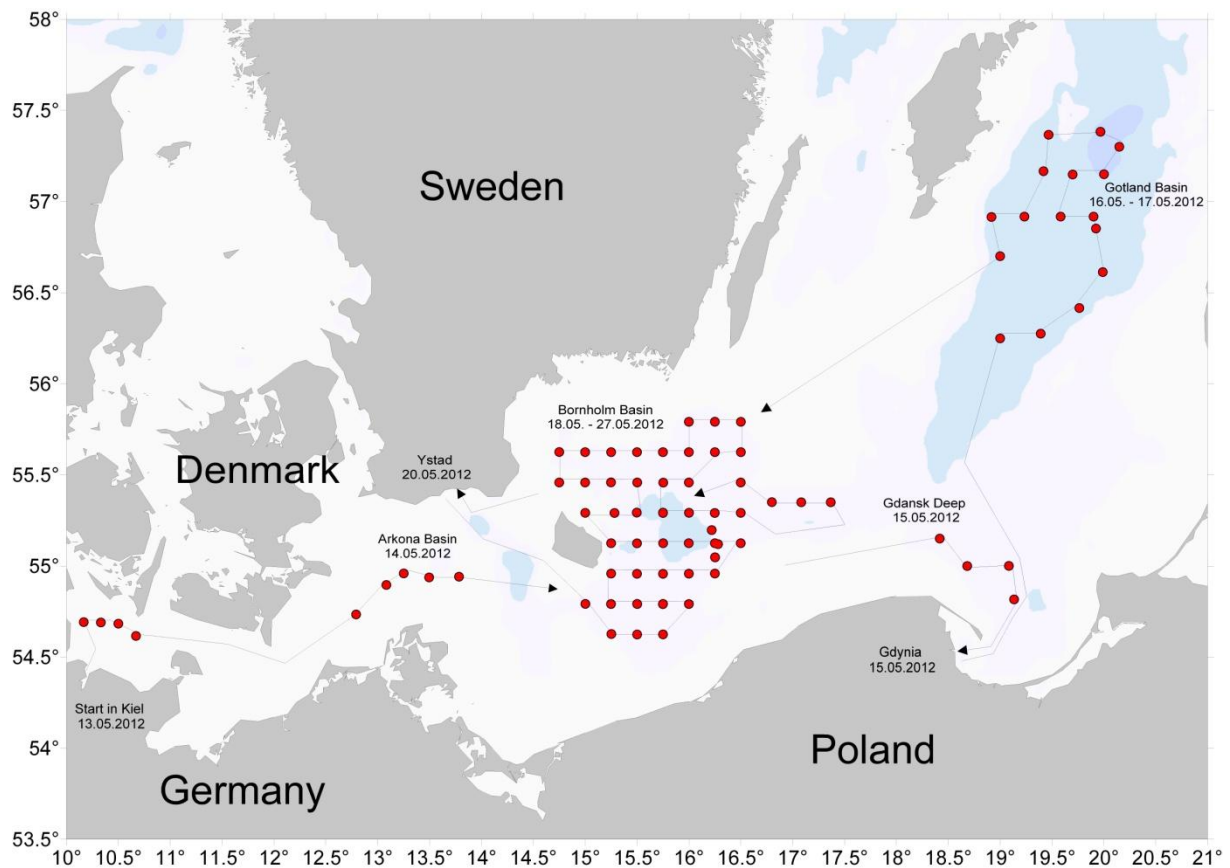


Fig. 1: Cruise track AL392. Red circles denote CTD casts.

Ichthyo- and zooplankton sampling

Bongo- and Babybongo casts were performed in the Kiel Bight (3 hauls), Arkona Basin (5 hauls), on a standard station grid in the Bornholm Basin (45 hauls) (Fig. 2). All Bongo samples were immediately checked for the presence of *Mnemiopsis leidyi*. No specimens of this invasive ctenophore were found in the investigation areas. Larvae of cod (*Gadus morhua*), sprat (*Sprattus sprattus*), and flounder (*Plathichthys flesus*) were picked from the 500 μ bongo-samples for subsequent RNA/DNA analysis. The 335 μ bongo samples will be used for abundance determination of ichthyoplankton. Stations in the Gdansk Deep and the Southern Gotland Basin were covered with IKS-80 casts (Fig. 2). IKS-80 samples were taken in cooperation with Latvian Fish Resources Agency (LATFRA). A MIDI type multinet (HYDROBIOS, Kiel) was deployed in the Kiel Bight to reveal vertical distribution of ichthyoplankton. On a central station in the Bornholm Basin MAXI type multinet (HYDROBIOS, Kiel) casts were performed to reveal the vertical distribution of ichthyoplankton (335 μ multinet horizontal tows). A WP-2 (200 μ) net was deployed on selected stations to get additional zooplankton samples (Fig. 2).

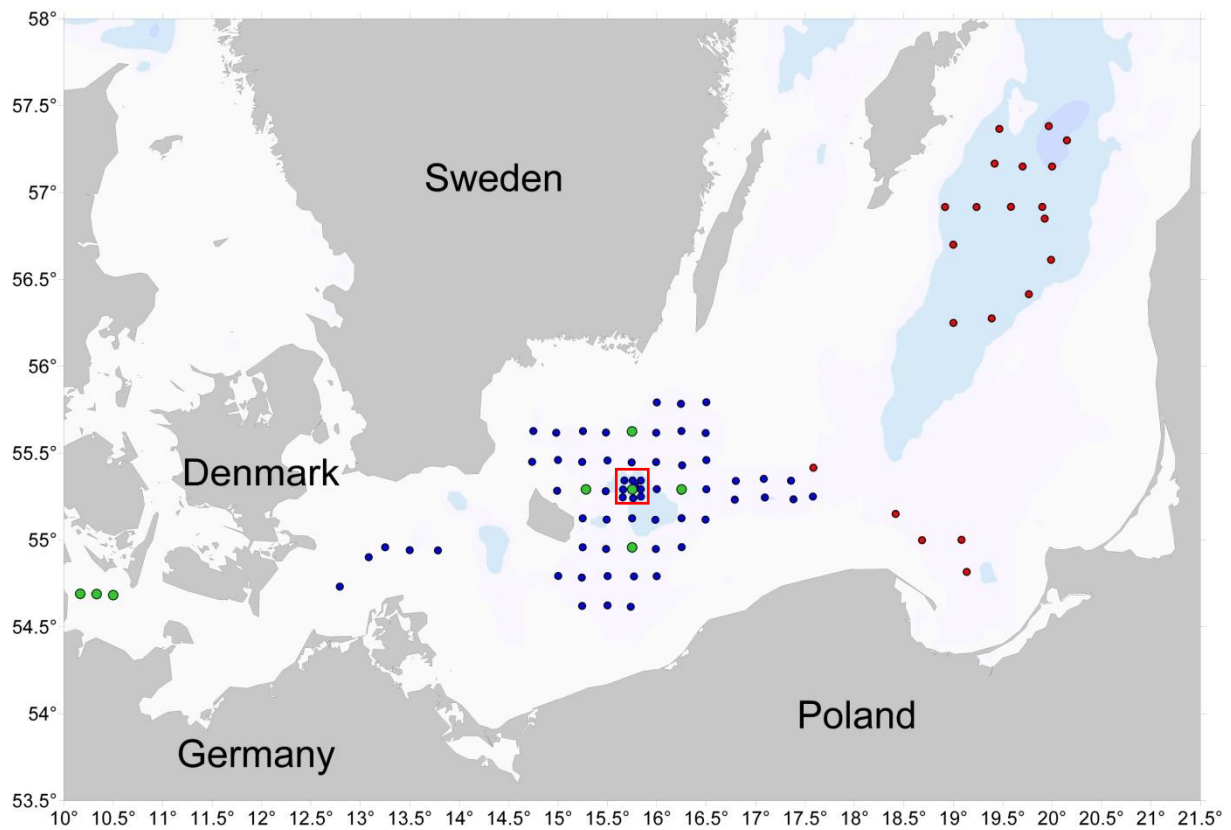


Fig. 2: Bongo, IKS-80, and WP-2 casts during AL392. Blue circles = bongo, red circles = IKS-80, green circles = WP-2 and bongo. Red box denotes position of small scale investigation.

Hydrography

87 CTD casts were performed. Temperature profiles revealed 4 °C at the surface water layer (Fig. 3). In intermediate water layers (40 m – 60 m) temperatures down to 2 °C were recorded. Below the halocline temperatures reached up to 7 °C in the central Bornholm Basin. The permanent halocline was located in ca. 60 m depth (Fig. 3). Maximum salinity values near the bottom reached 16.1 in the Bornholm Basin. Oxygen decreased from surface to bottom depth. However, oxygen was detected at the bottom of the Bornholm Basin with values up to 3 ml/l (Fig. 3). These results indicate an inflow event of oxygenated North Sea water into the Bornholm Basin in winter 2011/2012.

Additionally, a towed CTD system was deployed to obtain a high resolution of the hydrographic situation on selected transects (Fig. 4).

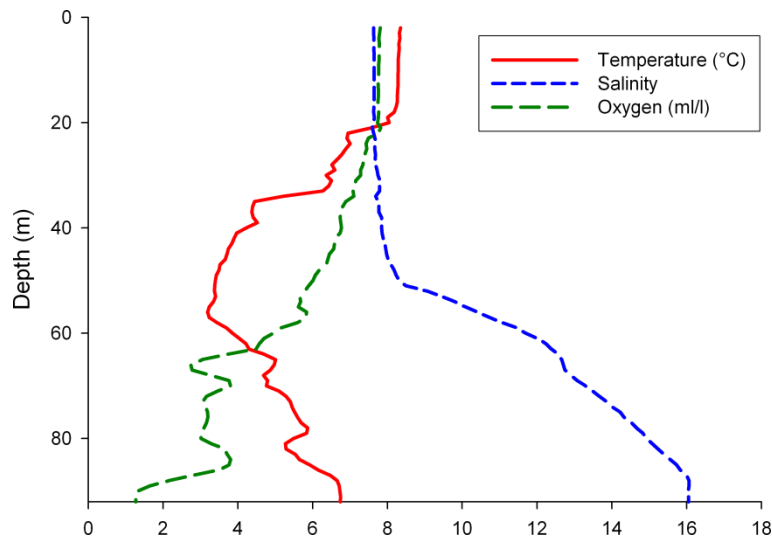


Fig. 3: Hydrography profile on a central station (St. 336) in the Bornholm Basin.

Fishery

During the cruise pelagic fishery was conducted in the Kiel Bight (2 haul), Arkona Basin (5 hauls), the Bornholm Basin (20 hauls), the Gdansk Deep (4 hauls) and the Southern Gotland Basin (10 hauls) (Fig. 4). Catches in the Arkona Basin were dominated by a mixture of sprat (*Sprattus sprattus*) and herring (*Clupea harengus*). Also whiting (*Merlangius merlangus*) occurred regularly in the hauls conducted in this area while numbers of cod (*Gadus morhua*) were in general low. In the Bornholm Basin sprat was the most abundant fish species followed by herring and cod. Sporadically also whiting and flounder (*Platichthys flesus*) occurred in the catches. With the exception of some cod, flounders and sticklebacks (*Gasterosteus aculeatus*), catches in the Gdansk Deep and Southern Gotland Basin comprised mainly of sprat and herring.

From all hauls species composition, catch weight and length frequencies of all species were taken. Stomach samples were taken from sprat (min 10 per 1cm length class) and herring (min 10 per 2 cm length class). For cod single fish data, otoliths, one fin clip for genetic analysis were taken from each individual. Additionally, sprat were sampled for maturation and fecundity analyses.

Small scale investigation

In order to investigate the abundance variability of fish and ichthyoplankton and predation of clupeids on zooplankton on a small scale fishery hauls in parallel with bongo casts, towed ctd, and multinet casts were performed around a central station in the Bornholm Basin (Fig. 5).

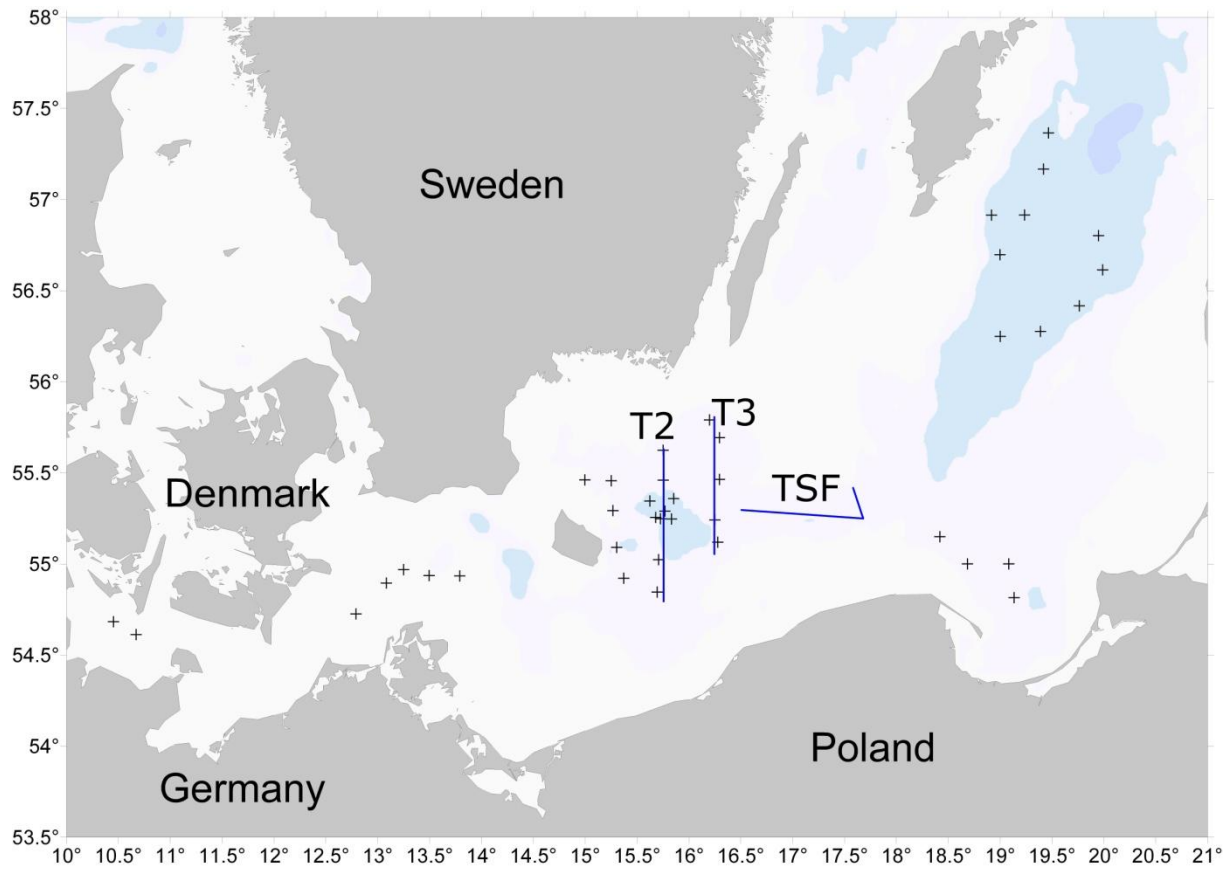


Fig. 4: Fishery stations covered during AL392 with the Jungfisch-Trawl. Blue lines denote transects covered with a towed CTD system (T2, T3, TSF).

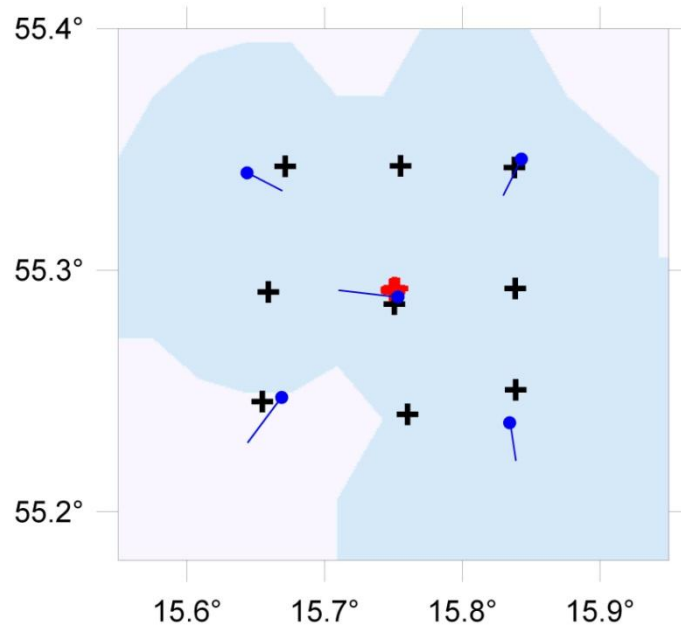


Fig. 5: Small scale investigation in the central Bornholm Basin (St. 368 – St. 384). Black crosses = bongo casts; red crosses = multinet MAXI; blue circles = pelagic fishery hauls.

Report of cruise AL392 with technical details

Sunday	13/05/2012	0800	leaving IfM-pier, heading with direction Kiel Bight stations.
		1022	beginning station work in Kiel Bight. CTD, Bongo, WP2, MIDI multinet, pelagic fishery.
		1729	end of fishery heading with direction Arkona Basin.
Monday	14/05/2012	0556	beginning station work in the Arkona Basin. CTD, Bongo, pelagic fishery.
		1552	end of fishery in the Arkona Basin, heading to Gdansk Deep.
Tuesday	15/05/2012	0656	beginning station work in the Gdansk Deep. CTD, IKS-80, pelagic fishery.
		1532	end of station work; heading with direction Gdynia.
		1800	entering Gdynia port; staff exchange, one man off, one man on board.
		2000	Leaving Gdynia; heading to Gotland Basin.
Wednesday	16/05/2012	0650	beginning station work in Gotland Basin. CTD, watersampler, IKS-80, pelagic fishery.
Thursday	17/05/2012	1824	end of station work in Gotland Basin, heading with direction Bornholm Basin.
Friday	18/05/2012	0710	beginning with pelagic fishery (5 hauls) on transect 3 (T3).
		1720	end of pelagic fishery on T3.
		1855	start of CTD transect (T3).
Saturday	19/05/2012	0342	end of CTD transect (T3).
		0604	beginning with pelagic fishery (5 hauls) on transect 2 (T2).
		1517	end of pelagic fishery on T2.
Sunday	20/05/2012	1623	start of CTD transect (T2).
		0219	end of CTD transect (T2); heading with direction Ystad.
		0600	beginning pelagic fishery, 5 hauls
Monday	21/05/2012	1000	arriving at Ystad port.
		1800	leaving Ystad, heading to Bornholm Basin.
Thursday	24/05/2012	2359	beginning with station work Bornholm Basin. CTD, watersampler, Bongo, WP-2.
		1315	parallel to bongo sampling start of CTD transect in the Stolper Trench (TSF).
Friday	25/05/2012	0205	end of CTD transect TSF. Continuing with station work Stople Trench and Bornholm Basin.
		0744	end of station work on bongo grid.
		1027	start of small scale investigation on a central position in the Bornholm Basin (St. 368 – St. 384). CTD, WP-2, MAXI multinet, pelagic fishery, acoustic, towed CTD.

Sunday	27/05/2012	0144	end of small scale sampling.
		0600	beginning pelagic fishery (5 hauls) in the western part of the Bornholm Basin.
		1430	end of pelagic fishery. End of research work, heading back to Kiel.
Monday	28/05/2012	0930	arriving Kiel port, GEOMAR pier west shore.
Tuesday	29/05/2012	0800	leaving west shore pier to move ship to Seefischmarkt.
		0830	Kiel Seefischmarkt, debarkation of equipment and samples.
		1000	move ship back to pier west shore building GEOMAR.
		1030	end of cruise.

Table 2: Detailed station list of AL392 13.05. – 29.05.2012. Date and time in UTC.

Ship station	Date	Time	Latitude	Longitude	Bottom depth (m)	Gear	Action
270-1	13.05.12	8:20	54° 41.50' N	10° 10.00' E	18.7	CTD	surface
270-1	13.05.12	8:23	54° 41.48' N	10° 9.95' E	18.8	CTD	on deck
270-2	13.05.12	8:56	54° 41.43' N	10° 9.91' E	19.1	WP 2	surface
270-2	13.05.12	9:00	54° 41.42' N	10° 9.90' E	19.2	WP 2	on deck
270-3	13.05.12	9:04	54° 41.39' N	10° 9.87' E	19.3	Bongo net	surface
270-3	13.05.12	9:07	54° 41.45' N	10° 9.67' E	19.7	Bongo net	on deck
270-4	13.05.12	9:16	54° 41.38' N	10° 9.93' E	19.3	towed multinet MIDI	surface
270-4	13.05.12	9:35	54° 41.61' N	10° 8.84' E	20.4	towed multinet MIDI	on deck
271-1	13.05.12	10:19	54° 41.47' N	10° 20.44' E	25.7	towed multinet MIDI	surface
271-1	13.05.12	10:41	54° 41.33' N	10° 18.60' E	23.8	towed multinet MIDI	on deck
271-2	13.05.12	10:47	54° 41.35' N	10° 19.00' E	23.8	Bongo net	surface
271-2	13.05.12	10:51	54° 41.20' N	10° 19.23' E	23.5	Bongo net	on deck
271-3	13.05.12	10:58	54° 41.37' N	10° 19.89' E	24.3	WP 2	surface
271-3	13.05.12	11:02	54° 41.38' N	10° 19.92' E	24.4	WP 2	on deck
271-4	13.05.12	11:06	54° 41.40' N	10° 19.90' E	24.5	CTD	surface
271-4	13.05.12	11:08	54° 41.40' N	10° 19.89' E	24.5	CTD	on deck
272-1	13.05.12	11:49	54° 41.00' N	10° 30.02' E	27.2	CTD	surface
272-1	13.05.12	11:51	54° 41.01' N	10° 30.01' E	27.3	CTD	on deck
272-2	13.05.12	11:55	54° 41.01' N	10° 29.96' E	27.5	WP 2	surface
272-2	13.05.12	11:59	54° 41.00' N	10° 29.93' E	27.5	WP 2	on deck
272-3	13.05.12	12:03	54° 40.99' N	10° 29.89' E	27.4	Bongo net	surface
272-3	13.05.12	12:07	54° 40.91' N	10° 29.59' E	26.9	Bongo net	on deck
272-4	13.05.12	12:13	54° 40.85' N	10° 29.36' E	26.5	towed multinet MIDI	surface
272-4	13.05.12	12:32	54° 40.63' N	10° 27.76' E	23.3	towed multinet MIDI	on deck
273-1	13.05.12	12:40	54° 40.99' N	10° 27.20' E	30.3	Pelagic trawl	surface
273-1	13.05.12	12:54	54° 41.08' N	10° 26.04' E	30	Pelagic trawl	begin fishing
273-1	13.05.12	13:24	54° 41.36' N	10° 23.72' E	30.6	Pelagic trawl	end fishing
273-1	13.05.12	13:33	54° 41.42' N	10° 23.19' E	29.8	Pelagic trawl	on deck
274-1	13.05.12	14:38	54° 36.95' N	10° 40.18' E	23.1	CTD	surface
274-1	13.05.12	14:41	54° 36.93' N	10° 40.16' E	23.3	CTD	on deck
274-2	13.05.12	14:47	54° 36.77' N	10° 40.27' E	23.2	Pelagic trawl	surface
274-2	13.05.12	14:59	54° 36.50' N	10° 41.32' E	23.9	Pelagic trawl	begin fishing
274-2	13.05.12	15:29	54° 36.08' N	10° 43.60' E	23.7	Pelagic trawl	end fishing
274-2	13.05.12	15:37	54° 36.02' N	10° 44.16' E	23.1	Pelagic trawl	on deck
275-1	14.05.12	3:56	54° 44.03' N	12° 47.52' E	22.5	CTD	surface
275-1	14.05.12	3:58	54° 44.03' N	12° 47.52' E	22.5	CTD	on deck
275-2	14.05.12	4:02	54° 43.93' N	12° 47.52' E	22.5	Bongo net	surface
275-2	14.05.12	4:05	54° 43.77' N	12° 47.46' E	22.6	Bongo net	on deck
275-3	14.05.12	4:11	54° 43.55' N	12° 47.45' E	22.5	Pelagic trawl	surface
275-3	14.05.12	4:27	54° 43.44' N	12° 48.99' E	22.6	Pelagic trawl	begin fishing
275-3	14.05.12	4:57	54° 43.15' N	12° 51.40' E	22.2	Pelagic trawl	end fishing
275-3	14.05.12	5:10	54° 42.66' N	12° 51.57' E	21.2	Pelagic trawl	on deck
276-1	14.05.12	6:35	54° 54.06' N	13° 5.06' E	43.4	Bongo net	surface
276-1	14.05.12	6:41	54° 53.79' N	13° 5.06' E	43.5	Bongo net	on deck
276-2	14.05.12	6:44	54° 53.76' N	13° 5.00' E	43.6	CTD	surface
276-2	14.05.12	6:48	54° 53.71' N	13° 5.01' E	43.5	CTD	on deck
276-3	14.05.12	6:51	54° 53.69' N	13° 5.03' E	43.5	Pelagic trawl	surface
276-3	14.05.12	7:00	54° 53.27' N	13° 4.87' E	43.5	Pelagic trawl	begin fishing
276-3	14.05.12	7:30	54° 51.89' N	13° 4.24' E	42.5	Pelagic trawl	end fishing
276-3	14.05.12	7:40	54° 51.45' N	13° 4.29' E	42.1	Pelagic trawl	on deck

Table 2 continued

277-1	14.05.12	8:36	54° 57.53' N	13° 15.03' E	46.6	CTD	surface
277-1	14.05.12	8:39	54° 57.53' N	13° 15.05' E	46.5	CTD	on deck
277-2	14.05.12	8:41	54° 57.50' N	13° 15.06' E	46.7	Bongo net	surface
277-2	14.05.12	8:48	54° 57.19' N	13° 15.11' E	46.4	Bongo net	on deck
277-3	14.05.12	8:57	54° 58.14' N	13° 15.00' E	46.9	Pelagic trawl	surface
277-3	14.05.12	9:09	54° 57.56' N	13° 14.93' E	46.7	Pelagic trawl	begin fishing
277-3	14.05.12	9:39	54° 56.14' N	13° 14.97' E	45.7	Pelagic trawl	end fishing
277-3	14.05.12	9:49	54° 55.66' N	13° 15.10' E	45.4	Pelagic trawl	on deck
278-1	14.05.12	10:48	54° 56.50' N	13° 29.97' E	46.8	Bongo net	surface
278-1	14.05.12	10:53	54° 56.28' N	13° 29.78' E	46.6	Bongo net	on deck
278-2	14.05.12	10:56	54° 56.23' N	13° 29.76' E	46.7	CTD	surface
278-2	14.05.12	11:00	54° 56.21' N	13° 29.76' E	46.7	CTD	on deck
278-3	14.05.12	11:02	54° 56.19' N	13° 29.76' E	46.7	Pelagic trawl	surface
278-3	14.05.12	11:14	54° 55.64' N	13° 29.21' E	46.6	Pelagic trawl	begin fishing
278-3	14.05.12	11:34	54° 54.85' N	13° 28.42' E	46.7	Pelagic trawl	end fishing
278-3	14.05.12	11:43	54° 54.58' N	13° 28.11' E	46.6	Pelagic trawl	on deck
279-1	14.05.12	12:53	54° 56.47' N	13° 47.02' E	49.8	CTD	surface
279-1	14.05.12	12:56	54° 56.46' N	13° 47.05' E	51	CTD	on deck
279-2	14.05.12	12:59	54° 56.43' N	13° 47.10' E	50.7	Bongo net	surface
279-2	14.05.12	13:05	54° 56.19' N	13° 47.36' E	50.9	Bongo net	on deck
279-3	14.05.12	13:08	54° 56.08' N	13° 47.46' E	49.7	Pelagic trawl	surface
279-3	14.05.12	13:22	54° 55.47' N	13° 48.09' E	51.5	Pelagic trawl	begin fishing
279-3	14.05.12	13:52	54° 54.31' N	13° 49.27' E	51	Pelagic trawl	end fishing
279-3	14.05.12	14:04	54° 53.94' N	13° 49.66' E	49.9	Pelagic trawl	on deck
280-1	15.05.12	4:56	55° 9.01' N	18° 25.01' E	79.2	IKS 80	surface
280-1	15.05.12	5:05	55° 9.01' N	18° 25.00' E	79.2	IKS 80	on deck
280-2	15.05.12	5:08	55° 9.01' N	18° 25.03' E	79.2	CTD	surface
280-2	15.05.12	5:14	55° 8.99' N	18° 25.09' E	79.2	CTD	on deck
280-3	15.05.12	5:14	55° 8.99' N	18° 25.09' E	79.2	Pelagic trawl	surface
280-3	15.05.12	5:34	55° 9.56' N	18° 26.31' E	80.4	Pelagic trawl	begin fishing
280-3	15.05.12	6:04	55° 10.19' N	18° 28.42' E	81.8	Pelagic trawl	end fishing
280-3	15.05.12	6:17	55° 9.91' N	18° 29.28' E	81.9	Pelagic trawl	on deck
281-1	15.05.12	7:29	55° 0.00' N	18° 40.93' E	92	CTD	surface
281-1	15.05.12	7:35	54° 59.98' N	18° 40.96' E	92.1	CTD	on deck
281-2	15.05.12	7:38	54° 59.96' N	18° 41.01' E	92.1	IKS 80	surface
281-2	15.05.12	7:48	55° 0.01' N	18° 41.08' E	92.2	IKS 80	on deck
281-3	15.05.12	8:50	55° 0.02' N	18° 41.08' E	92.1	Pelagic trawl	surface
281-3	15.05.12	9:04	54° 59.81' N	18° 42.31' E	92.7	Pelagic trawl	begin fishing
281-3	15.05.12	9:34	54° 59.60' N	18° 44.74' E	93.3	Pelagic trawl	end fishing
281-3	15.05.12	9:46	54° 59.66' N	18° 45.67' E	93.6	Pelagic trawl	on deck
282-1	15.05.12	10:54	55° 0.05' N	19° 4.98' E	100.6	IKS 80	surface
282-1	15.05.12	11:04	55° 0.04' N	19° 5.02' E	100.6	IKS 80	on deck
282-2	15.05.12	11:08	55° 0.04' N	19° 5.01' E	104.5	CTD	surface
282-2	15.05.12	11:15	55° 0.02' N	19° 4.99' E	100.6	CTD	on deck
282-3	15.05.12	11:16	55° 0.02' N	19° 4.99' E	100.7	Pelagic trawl	surface
282-3	15.05.12	11:30	54° 59.42' N	19° 5.72' E	101.4	Pelagic trawl	begin fishing
282-3	15.05.12	12:00	54° 58.30' N	19° 7.05' E	102.6	Pelagic trawl	end fishing
282-3	15.05.12	12:13	54° 57.99' N	19° 7.50' E	103	Pelagic trawl	on deck

Table 2 continued

283-1	15.05.12	13:09	54° 49.01' N	19° 8.07' E	103.2	CTD	surface
283-1	15.05.12	13:19	54° 48.98' N	19° 8.14' E	105.2	CTD	on deck
283-2	15.05.12	13:19	54° 48.98' N	19° 8.14' E	105.2	IKS 80	surface
283-2	15.05.12	13:28	54° 48.95' N	19° 8.09' E	103.1	IKS 80	on deck
283-3	15.05.12	13:32	54° 48.90' N	19° 8.08' E	103.1	Pelagic trawl	surface
283-3	15.05.12	13:49	54° 48.06' N	19° 7.32' E	102	Pelagic trawl	begin fishing
283-3	15.05.12	14:19	54° 46.89' N	19° 6.10' E	100.2	Pelagic trawl	end fishing
283-3	15.05.12	14:30	54° 46.62' N	19° 5.73' E	99.9	Pelagic trawl	on deck
284-1	16.05.12	5:50	56° 14.98' N	19° 0.04' E	121.2	IKS 80	surface
284-1	16.05.12	6:02	56° 14.95' N	18° 59.96' E	121.4	IKS 80	on deck
284-2	16.05.12	6:12	56° 14.94' N	18° 59.95' E	121.5	CTD/rosette water sampler	surface
284-2	16.05.12	6:29	56° 14.95' N	19° 0.03' E	121	CTD/rosette water sampler	on deck
284-3	16.05.12	6:33	56° 14.95' N	19° 0.07' E	121.3	Pelagic trawl	surface
284-3	16.05.12	6:46	56° 14.42' N	19° 1.04' E	123.4	Pelagic trawl	begin fishing
284-3	16.05.12	7:17	56° 13.67' N	19° 3.31' E	125.3	Pelagic trawl	end fishing
284-3	16.05.12	7:29	56° 13.68' N	19° 4.28' E	125.6	Pelagic trawl	on deck
285-1	16.05.12	8:33	56° 16.50' N	19° 23.42' E	129.5	CTD/rosette water sampler	surface
285-1	16.05.12	8:41	56° 16.51' N	19° 23.40' E	129.8	CTD/rosette water sampler	on deck
285-2	16.05.12	8:46	56° 16.54' N	19° 23.33' E	129.9	IKS 80	surface
285-2	16.05.12	8:59	56° 16.61' N	19° 23.24' E	130.3	IKS 80	on deck
285-3	16.05.12	9:02	56° 16.60' N	19° 23.28' E	130.2	Pelagic trawl	surface
285-3	16.05.12	9:12	56° 16.86' N	19° 24.18' E	128.4	Pelagic trawl	begin fishing
285-3	16.05.12	9:42	56° 17.58' N	19° 26.40' E	125.7	Pelagic trawl	end fishing
285-3	16.05.12	9:54	56° 17.86' N	19° 27.09' E	126.3	Pelagic trawl	on deck
286-1	16.05.12	11:15	56° 24.90' N	19° 45.85' E	111.4	IKS 80	surface
286-1	16.05.12	11:25	56° 24.93' N	19° 45.80' E	112.1	IKS 80	on deck
286-2	16.05.12	11:30	56° 24.94' N	19° 45.76' E	112.3	CTD/rosette water sampler	surface
286-2	16.05.12	11:38	56° 24.99' N	19° 45.75' E	112.6	CTD/rosette water sampler	on deck
286-3	16.05.12	11:40	56° 25.02' N	19° 45.80' E	112.5	Pelagic trawl	surface
286-3	16.05.12	12:01	56° 25.35' N	19° 47.32' E	109	Pelagic trawl	begin fishing
286-3	16.05.12	12:31	56° 25.95' N	19° 49.50' E	104.4	Pelagic trawl	end fishing
286-3	16.05.12	12:45	56° 26.06' N	19° 50.24' E	103.9	Pelagic trawl	on deck
287-1	16.05.12	14:00	56° 36.76' N	19° 59.38' E	134.1	CTD/rosette water sampler	surface
287-1	16.05.12	14:09	56° 36.76' N	19° 59.36' E	134.3	CTD/rosette water sampler	on deck
287-2	16.05.12	14:13	56° 36.76' N	19° 59.34' E	134.4	IKS 80	surface
287-2	16.05.12	14:25	56° 36.79' N	19° 59.29' E	134.6	IKS 80	on deck
287-3	16.05.12	14:28	56° 36.83' N	19° 59.31' E	134.7	Pelagic trawl	surface
287-3	16.05.12	14:41	56° 37.50' N	19° 59.69' E	137.6	Pelagic trawl	begin fishing
287-3	16.05.12	15:11	56° 38.81' N	20° 0.55' E	141.5	Pelagic trawl	end fishing
287-3	16.05.12	15:24	56° 39.24' N	20° 0.81' E	142.6	Pelagic trawl	on deck
288-1	16.05.12	16:21	56° 48.12' N	19° 56.86' E	158.6	Pelagic trawl	surface
288-1	16.05.12	16:35	56° 48.90' N	19° 56.49' E	159.3	Pelagic trawl	begin fishing
288-1	16.05.12	17:05	56° 50.29' N	19° 55.82' E	163.9	Pelagic trawl	end fishing
288-1	16.05.12	17:20	56° 50.90' N	19° 55.57' E	165.9	Pelagic trawl	on deck
288-2	16.05.12	17:27	56° 51.02' N	19° 55.50' E	166.2	IKS 80	surface
288-2	16.05.12	17:37	56° 51.10' N	19° 55.43' E	166.4	IKS 80	on deck
288-3	16.05.12	17:40	56° 51.13' N	19° 55.41' E	166.5	CTD/rosette water sampler	surface
288-3	16.05.12	17:52	56° 51.23' N	19° 55.35' E	166.5	CTD/rosette water sampler	on deck
289-1	16.05.12	18:20	56° 55.02' N	19° 54.03' E	170.3	CTD/rosette water sampler	surface
289-1	16.05.12	18:32	56° 55.03' N	19° 54.01' E	172.1	CTD/rosette water sampler	on deck
289-2	16.05.12	18:35	56° 55.04' N	19° 54.02' E	170.3	IKS 80	surface
289-2	16.05.12	18:47	56° 55.04' N	19° 53.96' E	170.3	IKS 80	on deck

Table 2 continued

290-1	16.05.12	19:48	56° 55.06' N	19° 35.00' E	153.4	IKS 80	surface
290-1	16.05.12	20:00	56° 55.05' N	19° 35.00' E	153.2	IKS 80	on deck
290-2	16.05.12	20:03	56° 55.05' N	19° 34.99' E	153.2	CTD/rosette water sampler	surface
290-2	16.05.12	20:14	56° 55.02' N	19° 35.02' E	153.1	CTD/rosette water sampler	on deck
291-1	16.05.12	22:04	57° 9.01' N	20° 0.07' E	222.2	CTD/rosette water sampler	surface
291-1	16.05.12	22:20	57° 8.99' N	20° 0.04' E	222	CTD/rosette water sampler	on deck
291-2	16.05.12	22:23	57° 9.00' N	20° 0.02' E	222.2	IKS 80	surface
291-2	16.05.12	22:36	57° 8.90' N	20° 0.05' E	221.6	IKS 80	on deck
292-1	16.05.12	23:38	57° 18.01' N	20° 9.01' E	240	IKS 80	surface
292-1	16.05.12	23:48	57° 18.01' N	20° 8.94' E	240	IKS 80	on deck
292-2	16.05.12	23:51	57° 18.01' N	20° 8.92' E	240	CTD/rosette water sampler	surface
292-2	17.05.12	0:08	57° 18.04' N	20° 8.75' E	240.1	CTD/rosette water sampler	on deck
293-1	17.05.12	1:00	57° 22.99' N	19° 58.02' E	213.8	CTD/rosette water sampler	surface
293-1	17.05.12	1:14	57° 22.95' N	19° 58.00' E	213.9	CTD/rosette water sampler	on deck
293-2	17.05.12	1:17	57° 22.94' N	19° 57.96' E	213.7	IKS 80	surface
293-2	17.05.12	1:28	57° 22.94' N	19° 57.87' E	213.4	IKS 80	on deck
294-1	17.05.12	3:05	57° 8.98' N	19° 42.05' E	173.9	IKS 80	surface
294-1	17.05.12	3:17	57° 8.94' N	19° 41.94' E	170.8	IKS 80	on deck
294-2	17.05.12	3:21	57° 8.91' N	19° 41.90' E	169.9	CTD/rosette water sampler	surface
294-2	17.05.12	3:33	57° 8.85' N	19° 41.85' E	169.3	CTD/rosette water sampler	on deck
295-1	17.05.12	5:02	57° 22.00' N	19° 28.01' E	132.2	CTD/rosette water sampler	surface
295-1	17.05.12	5:11	57° 21.98' N	19° 27.98' E	133.2	CTD/rosette water sampler	on deck
295-2	17.05.12	5:14	57° 21.97' N	19° 27.98' E	132.5	IKS 80	surface
295-2	17.05.12	5:25	57° 21.96' N	19° 27.96' E	133.5	IKS 80	on deck
295-3	17.05.12	5:27	57° 21.95' N	19° 27.96' E	133.6	Pelagic trawl	surface
295-3	17.05.12	5:40	57° 21.72' N	19° 26.76' E	127.9	Pelagic trawl	begin fishing
295-3	17.05.12	6:10	57° 21.09' N	19° 24.27' E	134.1	Pelagic trawl	end fishing
295-3	17.05.12	6:25	57° 20.79' N	19° 23.28' E	133.1	Pelagic trawl	on deck
296-1	17.05.12	7:29	57° 10.00' N	19° 25.05' E	168.5	IKS 80	surface
296-1	17.05.12	7:40	57° 9.99' N	19° 25.05' E	167.4	IKS 80	on deck
296-2	17.05.12	7:43	57° 10.00' N	19° 25.04' E	167.2	CTD/rosette water sampler	surface
296-2	17.05.12	7:54	57° 10.06' N	19° 25.09' E	168.2	CTD/rosette water sampler	on deck
296-3	17.05.12	7:58	57° 10.04' N	19° 25.06' E	167.2	Pelagic trawl	surface
296-3	17.05.12	8:12	57° 9.77' N	19° 23.79' E	165.8	Pelagic trawl	begin fishing
296-3	17.05.12	8:42	57° 9.34' N	19° 21.29' E	163.5	Pelagic trawl	end fishing
296-3	17.05.12	8:55	57° 9.11' N	19° 20.37' E	164.1	Pelagic trawl	on deck
297-1	17.05.12	10:26	56° 55.03' N	19° 14.05' E	169	CTD/rosette water sampler	surface
297-1	17.05.12	10:38	56° 55.00' N	19° 14.10' E	169.4	CTD/rosette water sampler	on deck
297-2	17.05.12	10:40	56° 55.00' N	19° 14.10' E	169.9	IKS 80	surface
297-2	17.05.12	10:51	56° 54.94' N	19° 14.14' E	171.4	IKS 80	on deck
297-3	17.05.12	10:53	56° 54.92' N	19° 14.10' E	171.1	Pelagic trawl	surface
297-3	17.05.12	11:05	56° 54.67' N	19° 13.19' E	170	Pelagic trawl	begin fishing
297-3	17.05.12	11:35	56° 54.05' N	19° 10.89' E	161.3	Pelagic trawl	end fishing
297-3	17.05.12	11:48	56° 53.88' N	19° 10.23' E	160.4	Pelagic trawl	on deck
298-1	17.05.12	12:50	56° 54.98' N	18° 55.00' E	131	IKS 80	surface
298-1	17.05.12	13:00	56° 54.93' N	18° 55.01' E	130.9	IKS 80	on deck
298-2	17.05.12	13:04	56° 54.93' N	18° 55.01' E	130.9	CTD/rosette water sampler	surface
298-2	17.05.12	13:12	56° 54.89' N	18° 54.98' E	130.7	CTD/rosette water sampler	on deck

Table 2 continued

298-3	17.05.12	13:14	56° 54.88' N	18° 54.97' E	129.6	Pelagic trawl	surface
298-3	17.05.12	13:29	56° 54.41' N	18° 53.88' E	123.7	Pelagic trawl	begin fishing
298-3	17.05.12	13:59	56° 53.60' N	18° 51.76' E	99.6	Pelagic trawl	end fishing
298-3	17.05.12	14:12	56° 53.32' N	18° 51.28' E	95.6	Pelagic trawl	on deck
299-1	17.05.12	16:01	56° 42.00' N	18° 59.97' E	140.6	CTD/rosette water sampler	surface
299-1	17.05.12	16:10	56° 42.00' N	19° 0.02' E	139.9	CTD/rosette water sampler	on deck
299-2	17.05.12	16:13	56° 42.01' N	19° 0.00' E	140.2	IKS 80	surface
299-2	17.05.12	16:24	56° 41.90' N	19° 0.00' E	141.3	IKS 80	on deck
299-3	17.05.12	16:28	56° 41.85' N	18° 59.91' E	140.2	Pelagic trawl	surface
299-3	17.05.12	16:42	56° 41.38' N	18° 59.04' E	134.1	Pelagic trawl	begin fishing
299-3	17.05.12	17:12	56° 40.35' N	18° 57.21' E	125.5	Pelagic trawl	end fishing
299-3	17.05.12	17:24	56° 40.01' N	18° 56.79' E	121.5	Pelagic trawl	on deck
300-1	18.05.12	6:10	55° 47.50' N	16° 15.02' E	60	CTD	surface
300-1	18.05.12	6:15	55° 47.47' N	16° 14.92' E	61.6	CTD	on deck
300-2	18.05.12	6:55	55° 47.44' N	16° 11.88' E	60.6	Pelagic trawl	surface
300-2	18.05.12	7:10	55° 47.26' N	16° 10.81' E	60.8	Pelagic trawl	begin fishing
300-2	18.05.12	7:39	55° 47.05' N	16° 8.53' E	61.4	Pelagic trawl	end fishing
300-2	18.05.12	7:50	55° 46.93' N	16° 7.77' E	64.6	Pelagic trawl	on deck
301-1	18.05.12	8:49	55° 41.60' N	16° 17.65' E	66.5	Pelagic trawl	surface
301-1	18.05.12	9:02	55° 41.52' N	16° 16.51' E	70.7	Pelagic trawl	begin fishing
301-1	18.05.12	9:33	55° 41.53' N	16° 14.05' E	71	Pelagic trawl	end fishing
301-1	18.05.12	9:51	55° 41.30' N	16° 12.87' E	68.3	Pelagic trawl	on deck
302-1	18.05.12	11:16	55° 27.86' N	16° 17.68' E	72.8	Pelagic trawl	surface
302-1	18.05.12	11:34	55° 27.06' N	16° 16.95' E	72.2	Pelagic trawl	begin fishing
302-1	18.05.12	12:04	55° 25.83' N	16° 15.79' E	73.1	Pelagic trawl	end fishing
302-1	18.05.12	12:16	55° 25.51' N	16° 15.51' E	73.2	Pelagic trawl	on deck
303-1	18.05.12	13:25	55° 14.50' N	16° 14.96' E	74	Pelagic trawl	surface
303-1	18.05.12	13:44	55° 13.57' N	16° 14.26' E	76.2	Pelagic trawl	begin fishing
303-1	18.05.12	14:14	55° 12.32' N	16° 13.40' E	78.6	Pelagic trawl	end fishing
303-1	18.05.12	14:26	55° 11.95' N	16° 13.19' E	79.3	Pelagic trawl	on deck
303-2	18.05.12	14:34	55° 11.82' N	16° 13.13' E	80.4	CTD	surface
303-2	18.05.12	14:34	55° 11.82' N	16° 13.13' E	80.4	CTD	on deck
304-1	18.05.12	15:16	55° 7.20' N	16° 16.79' E	76.4	CTD	surface
304-1	18.05.12	15:22	55° 7.20' N	16° 16.66' E	76.6	CTD	on deck
304-2	18.05.12	15:26	55° 7.18' N	16° 16.66' E	76.6	Pelagic trawl	surface
304-2	18.05.12	15:37	55° 7.27' N	16° 17.75' E	74.1	Pelagic trawl	begin fishing
304-2	18.05.12	16:07	55° 7.54' N	16° 20.39' E	66.5	Pelagic trawl	end fishing
304-2	18.05.12	16:20	55° 7.64' N	16° 21.29' E	64.8	Pelagic trawl	on deck
305-1	18.05.12	17:01	55° 2.85' N	16° 15.08' E	70.9	CTD	surface
305-1	18.05.12	17:05	55° 2.85' N	16° 15.10' E	70.9	CTD	on deck
305-2	18.05.12	17:12	55° 2.84' N	16° 15.13' E	70.9	CTD	surface
305-2	18.05.12	17:18	55° 2.81' N	16° 15.09' E	70.7	CTD	on deck
306-1	18.05.12	17:49	55° 3.24' N	16° 14.89' E	72.3	towed CTD	surface
306-1	18.05.12	17:52	55° 3.38' N	16° 14.88' E	72.7	towed CTD	on deck
306-1	19.05.12	2:41	55° 47.57' N	16° 14.99' E	60	towed CTD	surface
306-1	19.05.12	2:44	55° 47.79' N	16° 14.98' E	59.7	towed CTD	on deck
307-1	19.05.12	4:54	55° 37.50' N	15° 44.96' E	68.9	CTD	surface
307-1	19.05.12	4:58	55° 37.47' N	15° 45.02' E	69	CTD	on deck

Table 2 continued

307-2	19.05.12	5:04	55° 37.44' N	15° 45.07' E	69	Pelagic trawl	surface
307-2	19.05.12	5:20	55° 36.94' N	15° 46.27' E	72.1	Pelagic trawl	begin fishing
307-2	19.05.12	5:40	55° 36.32' N	15° 47.68' E	71.6	Pelagic trawl	end fishing
307-2	19.05.12	5:57	55° 35.89' N	15° 48.68' E	73.5	Pelagic trawl	on deck
308-1	19.05.12	6:49	55° 27.61' N	15° 45.11' E	85.4	Pelagic trawl	surface
308-1	19.05.12	7:05	55° 27.27' N	15° 46.54' E	86.5	Pelagic trawl	begin fishing
308-1	19.05.12	7:25	55° 27.14' N	15° 48.23' E	87.2	Pelagic trawl	end fishing
308-1	19.05.12	7:42	55° 26.85' N	15° 49.72' E	89.6	Pelagic trawl	on deck
309-1	19.05.12	9:00	55° 14.91' N	15° 43.51' E	100	Pelagic trawl	surface
309-1	19.05.12	9:11	55° 14.72' N	15° 44.52' E	99.1	Pelagic trawl	begin fishing
309-1	19.05.12	9:41	55° 14.08' N	15° 46.92' E	97.9	Pelagic trawl	end fishing
309-1	19.05.12	9:55	55° 14.01' N	15° 47.88' E	97.6	Pelagic trawl	on deck
310-1	19.05.12	11:14	55° 1.41' N	15° 42.43' E	88.9	Pelagic trawl	surface
310-1	19.05.12	11:36	55° 0.98' N	15° 43.89' E	83.3	Pelagic trawl	begin fishing
310-1	19.05.12	11:56	55° 0.55' N	15° 45.40' E	83.3	Pelagic trawl	end fishing
310-1	19.05.12	12:09	55° 0.40' N	15° 46.05' E	84.3	Pelagic trawl	on deck
311-1	19.05.12	13:19	54° 50.75' N	15° 41.65' E	77	Pelagic trawl	surface
311-1	19.05.12	13:34	54° 50.59' N	15° 43.00' E	80.3	Pelagic trawl	begin fishing
311-1	19.05.12	14:04	54° 50.30' N	15° 45.35' E	75	Pelagic trawl	end fishing
311-1	19.05.12	14:17	54° 50.25' N	15° 46.02' E	74.6	Pelagic trawl	on deck
312-1	19.05.12	14:52	54° 47.42' N	15° 44.90' E	74.2	CTD	surface
312-1	19.05.12	14:57	54° 47.41' N	15° 44.97' E	74	CTD	on deck
313-1	19.05.12	15:20	54° 47.50' N	15° 44.94' E	74.4	towed CTD	surface
313-1	19.05.12	15:23	54° 47.65' N	15° 44.96' E	72.2	towed CTD	on deck
313-1	20.05.12	1:14	55° 37.51' N	15° 44.99' E	70.5	towed CTD	surface
313-1	20.05.12	1:20	55° 37.88' N	15° 44.98' E	68.5	towed CTD	on deck
314-1	21.05.12	22:59	54° 47.52' N	15° 0.08' E	60.3	CTD	surface
314-1	21.05.12	23:04	54° 47.56' N	15° 0.06' E	60.4	CTD	on deck
314-2	21.05.12	23:08	54° 47.60' N	15° 0.10' E	60.4	Bongo net	surface
314-2	21.05.12	23:17	54° 47.94' N	15° 0.59' E	60.2	Bongo net	on deck
315-1	22.05.12	0:41	54° 37.25' N	15° 14.68' E	58.3	Bongo net	surface
315-1	22.05.12	0:49	54° 37.56' N	15° 15.03' E	59	Bongo net	on deck
315-2	22.05.12	0:53	54° 37.61' N	15° 15.16' E	59.1	CTD	surface
315-2	22.05.12	0:58	54° 37.65' N	15° 15.20' E	59.3	CTD	on deck
316-1	22.05.12	1:56	54° 37.42' N	15° 30.01' E	63.3	CTD	surface
316-1	22.05.12	2:01	54° 37.40' N	15° 30.05' E	63.2	CTD	on deck
316-2	22.05.12	2:05	54° 37.44' N	15° 30.05' E	63.4	Bongo net	surface
316-2	22.05.12	2:14	54° 37.76' N	15° 30.50' E	63.7	Bongo net	on deck
317-1	22.05.12	3:06	54° 36.96' N	15° 44.14' E	59.7	Bongo net	surface
317-1	22.05.12	3:15	54° 37.29' N	15° 44.68' E	59.7	Bongo net	on deck
317-2	22.05.12	3:20	54° 37.47' N	15° 45.00' E	59.7	CTD	surface
317-2	22.05.12	3:25	54° 37.45' N	15° 45.03' E	59.8	CTD	on deck
318-1	22.05.12	4:47	54° 47.49' N	15° 59.94' E	52	CTD	surface
318-1	22.05.12	4:51	54° 47.50' N	15° 59.99' E	51.6	CTD	on deck
318-2	22.05.12	4:54	54° 47.51' N	15° 59.92' E	52	Bongo net	surface
318-2	22.05.12	5:03	54° 47.55' N	15° 59.11' E	53.2	Bongo net	on deck
319-1	22.05.12	5:49	54° 47.43' N	15° 46.10' E	70.7	Bongo net	surface
319-1	22.05.12	6:01	54° 47.44' N	15° 45.05' E	74.1	Bongo net	on deck
319-2	22.05.12	6:05	54° 47.50' N	15° 44.99' E	74.1	CTD	surface
319-2	22.05.12	6:10	54° 47.51' N	15° 45.00' E	72	CTD	on deck

Table 2 continued

320-1	22.05.12	7:04	54° 47.51' N	15° 30.03' E	73.7	CTD	surface
320-1	22.05.12	7:10	54° 47.47' N	15° 30.08' E	76.3	CTD	on deck
320-2	22.05.12	7:14	54° 47.48' N	15° 30.10' E	76.4	CTD/rosette water sampler	surface
320-2	22.05.12	7:27	54° 47.52' N	15° 30.02' E	77	CTD/rosette water sampler	on deck
320-3	22.05.12	7:32	54° 47.54' N	15° 30.12' E	77.8	Bongo net	surface
320-3	22.05.12	7:41	54° 47.87' N	15° 30.53' E	76.4	Bongo net	on deck
321-1	22.05.12	8:39	54° 47.04' N	15° 14.44' E	67.1	Bongo net	surface
321-1	22.05.12	8:48	54° 47.41' N	15° 14.81' E	67.3	Bongo net	on deck
321-2	22.05.12	8:50	54° 47.46' N	15° 14.93' E	67.7	CTD	surface
321-2	22.05.12	8:59	54° 47.54' N	15° 14.88' E	67.4	CTD	on deck
322-1	22.05.12	10:01	54° 57.49' N	15° 14.99' E	43.8	CTD	surface
322-1	22.05.12	10:05	54° 57.50' N	15° 14.99' E	43.4	CTD	on deck
322-2	22.05.12	10:07	54° 57.51' N	15° 14.99' E	43.8	Bongo net	surface
322-2	22.05.12	10:13	54° 57.76' N	15° 15.01' E	44.9	Bongo net	on deck
323-1	22.05.12	11:06	54° 56.90' N	15° 29.18' E	76.9	Bongo net	surface
323-1	22.05.12	11:16	54° 57.28' N	15° 29.73' E	76.2	Bongo net	on deck
323-2	22.05.12	11:21	54° 57.43' N	15° 29.94' E	76.5	CTD	surface
323-2	22.05.12	11:26	54° 57.44' N	15° 30.02' E	79.2	CTD	on deck
324-1	22.05.12	12:25	54° 57.44' N	15° 45.02' E	83	CTD	surface
324-1	22.05.12	12:32	54° 57.44' N	15° 45.01' E	81.3	CTD	on deck
324-2	22.05.12	12:35	54° 57.46' N	15° 45.02' E	81	WP 2	surface
324-2	22.05.12	12:45	54° 57.51' N	15° 45.00' E	81.3	WP 2	on deck
324-3	22.05.12	12:49	54° 57.54' N	15° 45.00' E	82	Bongo net	surface
324-3	22.05.12	12:59	54° 57.95' N	15° 45.38' E	80.1	Bongo net	on deck
325-1	22.05.12	13:55	54° 56.92' N	15° 59.39' E	73.5	Bongo net	surface
325-1	22.05.12	14:05	54° 57.34' N	15° 59.83' E	73.3	Bongo net	on deck
325-2	22.05.12	14:09	54° 57.47' N	15° 59.95' E	74	CTD	surface
325-2	22.05.12	14:15	54° 57.47' N	15° 59.92' E	74.2	CTD	on deck
326-1	22.05.12	15:17	54° 57.49' N	16° 15.00' E	49.6	CTD	surface
326-1	22.05.12	15:20	54° 57.50' N	16° 15.01' E	50.5	CTD	on deck
326-2	22.05.12	15:24	54° 57.55' N	16° 15.05' E	50.3	Bongo net	surface
326-2	22.05.12	15:32	54° 57.91' N	16° 15.36' E	50.4	Bongo net	on deck
327-1	22.05.12	17:02	55° 7.05' N	16° 29.53' E	50.3	Bongo net	surface
327-1	22.05.12	17:11	55° 7.44' N	16° 29.90' E	50.8	Bongo net	on deck
327-2	22.05.12	17:14	55° 7.52' N	16° 29.97' E	51.4	CTD	surface
327-2	22.05.12	17:18	55° 7.54' N	16° 29.99' E	51.5	CTD	on deck
328-1	22.05.12	18:14	55° 7.49' N	16° 14.97' E	79.3	CTD	surface
328-1	22.05.12	18:20	55° 7.49' N	16° 14.97' E	82.8	CTD	on deck
328-2	22.05.12	18:23	55° 7.55' N	16° 15.01' E	82.5	Bongo net	surface
328-2	22.05.12	18:35	55° 8.12' N	16° 15.33' E	79.3	Bongo net	on deck
329-1	22.05.12	19:39	55° 6.97' N	15° 59.10' E	88.8	Bongo net	surface
329-1	22.05.12	19:53	55° 7.47' N	15° 59.73' E	90.2	Bongo net	on deck
329-2	22.05.12	19:56	55° 7.49' N	15° 59.90' E	89.3	CTD	surface
329-2	22.05.12	20:02	55° 7.54' N	15° 59.84' E	88.6	CTD	on deck
330-1	22.05.12	20:54	55° 7.49' N	15° 45.06' E	89.7	CTD	surface
330-1	22.05.12	21:01	55° 7.51' N	15° 45.00' E	89.4	CTD	on deck
330-2	22.05.12	21:04	55° 7.51' N	15° 44.97' E	89.6	Bongo net	surface
330-2	22.05.12	21:15	55° 7.96' N	15° 45.31' E	89.2	Bongo net	on deck
331-1	22.05.12	22:19	55° 7.06' N	15° 29.57' E	68.4	Bongo net	surface
331-1	22.05.12	22:28	55° 7.40' N	15° 29.80' E	67.2	Bongo net	on deck
331-2	22.05.12	22:31	55° 7.46' N	15° 29.94' E	68.6	CTD	surface
331-2	22.05.12	22:37	55° 7.51' N	15° 29.89' E	67.9	CTD	on deck
332-1	22.05.12	23:32	55° 7.49' N	15° 14.98' E	62	CTD	surface
332-1	22.05.12	23:37	55° 7.50' N	15° 14.99' E	62	CTD	on deck
332-2	22.05.12	23:40	55° 7.51' N	15° 14.99' E	62.4	Bongo net	surface
332-2	22.05.12	23:51	55° 7.89' N	15° 15.52' E	61.7	Bongo net	on deck

Table 2 continued

333-1	23.05.12	1:22	55° 17.03' N	14° 59.47' E	70.6	Bongo net	surface
333-1	23.05.12	1:33	55° 17.44' N	15° 0.01' E	72.1	Bongo net	on deck
333-2	23.05.12	1:36	55° 17.48' N	15° 0.04' E	72.9	CTD	surface
333-2	23.05.12	1:42	55° 17.48' N	15° 0.04' E	71.5	CTD	on deck
334-1	23.05.12	2:51	55° 17.46' N	15° 16.98' E	88.9	CTD	surface
334-1	23.05.12	2:58	55° 17.50' N	15° 16.98' E	88.5	CTD	on deck
334-2	23.05.12	3:02	55° 17.49' N	15° 16.96' E	89.8	WP 2	surface
334-2	23.05.12	3:13	55° 17.54' N	15° 17.02' E	89.5	WP 2	on deck
334-3	23.05.12	3:15	55° 17.55' N	15° 17.03' E	89.8	Bongo net	surface
334-3	23.05.12	3:29	55° 18.13' N	15° 17.70' E	92.1	Bongo net	on deck
335-1	23.05.12	4:24	55° 16.85' N	15° 28.96' E	91.8	Bongo net	surface
335-1	23.05.12	4:37	55° 17.43' N	15° 29.63' E	93.2	Bongo net	on deck
335-2	23.05.12	4:40	55° 17.56' N	15° 29.79' E	92.3	CTD	surface
335-2	23.05.12	4:47	55° 17.63' N	15° 29.83' E	93.4	CTD	on deck
336-1	23.05.12	5:53	55° 17.47' N	15° 45.02' E	101.9	CTD	surface
336-1	23.05.12	6:00	55° 17.49' N	15° 45.04' E	100.1	CTD	on deck
336-2	23.05.12	6:04	55° 17.50' N	15° 45.04' E	95.9	WP 2	surface
336-2	23.05.12	6:18	55° 17.57' N	15° 44.97' E	99.9	WP 2	on deck
336-3	23.05.12	6:21	55° 17.61' N	15° 44.98' E	99.7	Bongo net	surface
336-3	23.05.12	6:34	55° 18.23' N	15° 45.53' E	99.3	Bongo net	on deck
337-1	23.05.12	7:44	55° 26.82' N	15° 44.75' E	86.9	Bongo net	surface
337-1	23.05.12	7:55	55° 27.32' N	15° 44.95' E	86.6	Bongo net	on deck
337-2	23.05.12	8:01	55° 27.43' N	15° 45.12' E	85.3	CTD/rosette water sampler	surface
337-2	23.05.12	8:12	55° 27.44' N	15° 45.09' E	87	CTD/rosette water sampler	on deck
337-3	23.05.12	8:15	55° 27.44' N	15° 45.11' E	86.1	CTD	surface
337-3	23.05.12	8:21	55° 27.47' N	15° 45.14' E	86.9	CTD	on deck
338-1	23.05.12	9:15	55° 27.47' N	15° 30.06' E	90.2	CTD	surface
338-1	23.05.12	9:22	55° 27.48' N	15° 30.06' E	85.7	CTD	on deck
338-2	23.05.12	9:24	55° 27.50' N	15° 30.05' E	90.8	Bongo net	surface
338-2	23.05.12	9:36	55° 28.02' N	15° 30.32' E	84.8	Bongo net	on deck
339-1	23.05.12	10:42	55° 26.96' N	15° 14.62' E	91.4	Bongo net	surface
339-1	23.05.12	10:56	55° 27.50' N	15° 14.92' E	93.9	Bongo net	on deck
339-2	23.05.12	10:59	55° 27.53' N	15° 14.94' E	93.2	CTD	surface
339-2	23.05.12	11:06	55° 27.58' N	15° 14.91' E	90.1	CTD	on deck
340-1	23.05.12	12:00	55° 27.50' N	14° 59.93' E	78.3	CTD	surface
340-1	23.05.12	12:07	55° 27.59' N	14° 59.94' E	78.6	CTD	on deck
340-2	23.05.12	12:10	55° 27.65' N	14° 59.98' E	79.4	Bongo net	surface
340-2	23.05.12	12:22	55° 28.10' N	15° 0.57' E	76.9	Bongo net	on deck
341-1	23.05.12	13:21	55° 26.99' N	14° 44.27' E	70	Bongo net	surface
341-1	23.05.12	13:32	55° 27.41' N	14° 44.85' E	68.6	Bongo net	on deck
341-2	23.05.12	13:35	55° 27.50' N	14° 44.99' E	69.6	CTD	surface
341-2	23.05.12	13:41	55° 27.55' N	14° 44.99' E	69	CTD	on deck
342-1	23.05.12	14:47	55° 37.54' N	14° 44.95' E	67.2	CTD	surface
342-1	23.05.12	14:52	55° 37.61' N	14° 44.98' E	66.9	CTD	on deck
342-2	23.05.12	14:55	55° 37.64' N	14° 45.02' E	67.3	Bongo net	surface
342-2	23.05.12	15:04	55° 37.88' N	14° 45.67' E	66.5	Bongo net	on deck

Table 2 continued

343-1	23.05.12	15:55	55° 37.04' N	14° 58.88' E	79.9	Bongo net	surface
343-1	23.05.12	16:05	55° 37.36' N	14° 59.58' E	80.1	Bongo net	on deck
343-2	23.05.12	16:09	55° 37.48' N	14° 59.95' E	81.3	CTD	surface
343-2	23.05.12	16:14	55° 37.52' N	15° 0.00' E	76.1	CTD	on deck
344-1	23.05.12	17:12	55° 37.48' N	15° 14.97' E	75.1	CTD	surface
344-1	23.05.12	17:18	55° 37.53' N	15° 15.02' E	73.2	CTD	on deck
344-2	23.05.12	17:21	55° 37.60' N	15° 15.12' E	76.3	Bongo net	surface
344-2	23.05.12	17:32	55° 37.96' N	15° 15.87' E	74.6	Bongo net	on deck
345-1	23.05.12	18:23	55° 37.13' N	15° 29.10' E	67.8	Bongo net	surface
345-1	23.05.12	18:33	55° 37.50' N	15° 29.75' E	66.7	Bongo net	on deck
345-2	23.05.12	18:36	55° 37.49' N	15° 29.95' E	67.2	CTD	surface
345-2	23.05.12	18:41	55° 37.53' N	15° 30.03' E	67.2	CTD	on deck
346-1	23.05.12	19:35	55° 37.48' N	15° 44.94' E	70	CTD	surface
346-1	23.05.12	19:41	55° 37.51' N	15° 44.97' E	70.2	CTD	on deck
346-2	23.05.12	19:43	55° 37.52' N	15° 44.96' E	69.1	WP 2	surface
346-2	23.05.12	19:51	55° 37.55' N	15° 44.94' E	69.2	WP 2	on deck
346-3	23.05.12	19:54	55° 37.57' N	15° 44.94' E	69	Bongo net	surface
346-3	23.05.12	20:02	55° 37.86' N	15° 45.28' E	68.7	Bongo net	on deck
347-1	23.05.12	20:53	55° 37.04' N	15° 59.59' E	76.9	Bongo net	surface
347-1	23.05.12	21:04	55° 37.47' N	15° 59.92' E	74.5	Bongo net	on deck
347-2	23.05.12	21:06	55° 37.50' N	15° 59.95' E	74.6	CTD	surface
347-2	23.05.12	21:11	55° 37.50' N	15° 59.91' E	74.6	CTD	on deck
348-1	23.05.12	22:14	55° 47.46' N	15° 59.93' E	63.6	CTD	surface
348-1	23.05.12	22:19	55° 47.47' N	15° 59.97' E	61.9	CTD	on deck
348-2	23.05.12	22:22	55° 47.50' N	15° 59.98' E	63.8	Bongo net	surface
348-2	23.05.12	22:31	55° 47.90' N	16° 0.27' E	63.2	Bongo net	on deck
349-1	23.05.12	23:22	55° 47.03' N	16° 14.67' E	61.1	Bongo net	surface
349-1	23.05.12	23:30	55° 47.40' N	16° 14.93' E	62.1	Bongo net	on deck
349-2	23.05.12	23:34	55° 47.49' N	16° 14.98' E	59.7	CTD	surface
349-2	23.05.12	23:39	55° 47.51' N	16° 14.94' E	60.2	CTD	on deck
350-1	24.05.12	0:34	55° 47.48' N	16° 30.01' E	57	CTD	surface
350-1	24.05.12	0:39	55° 47.50' N	16° 29.99' E	56.8	CTD	on deck
350-2	24.05.12	0:43	55° 47.60' N	16° 30.05' E	56.7	Bongo net	surface
350-2	24.05.12	0:51	55° 47.95' N	16° 30.32' E	56	Bongo net	on deck
351-1	24.05.12	1:59	55° 36.96' N	16° 29.63' E	63.1	Bongo net	surface
351-1	24.05.12	2:08	55° 37.36' N	16° 29.90' E	62.6	Bongo net	on deck
351-2	24.05.12	2:12	55° 37.47' N	16° 30.02' E	62.7	CTD	surface
351-2	24.05.12	2:17	55° 37.51' N	16° 29.98' E	62.6	CTD	on deck
352-1	24.05.12	3:10	55° 37.49' N	16° 14.99' E	74.4	CTD	surface
352-1	24.05.12	3:16	55° 37.52' N	16° 14.89' E	74.4	CTD	on deck
352-2	24.05.12	3:20	55° 37.63' N	16° 14.91' E	73.3	Bongo net	surface
352-2	24.05.12	3:30	55° 38.13' N	16° 15.10' E	72	Bongo net	on deck
353-1	24.05.12	3:40	55° 38.31' N	16° 15.04' E	71.7	towed CTD	surface
353-1	24.05.12	3:44	55° 38.13' N	16° 15.00' E	71.8	towed CTD	on deck
353-1	24.05.12	6:08	55° 26.07' N	16° 14.99' E	73.9	towed CTD	surface
353-1	24.05.12	6:11	55° 25.83' N	16° 14.98' E	73.9	towed CTD	on deck
353-2	24.05.12	6:20	55° 25.81' N	16° 15.35' E	73.1	Bongo net	surface
353-2	24.05.12	6:31	55° 26.25' N	16° 15.88' E	73.3	Bongo net	on deck
354-1	24.05.12	7:30	55° 26.92' N	15° 59.54' E	83.7	Bongo net	surface
354-1	24.05.12	7:41	55° 27.39' N	15° 59.87' E	83.3	Bongo net	on deck

Table 2 continued

354-2	24.05.12	7:44	55° 27.48' N	15° 59.97' E	82.7	CTD	surface
354-2	24.05.12	7:50	55° 27.51' N	15° 59.96' E	82.7	CTD	on deck
355-1	24.05.12	8:50	55° 17.48' N	16° 0.01' E	89	CTD	surface
355-1	24.05.12	8:56	55° 17.52' N	16° 0.04' E	89.1	CTD	on deck
355-2	24.05.12	9:00	55° 17.52' N	16° 0.01' E	88.9	CTD/rosette water sampler	surface
355-2	24.05.12	9:11	55° 17.56' N	15° 59.99' E	88.7	CTD/rosette water sampler	on deck
355-3	24.05.12	9:15	55° 17.56' N	15° 59.99' E	88.8	Bongo net	surface
355-3	24.05.12	9:28	55° 18.08' N	16° 0.47' E	88.8	Bongo net	on deck
356-1	24.05.12	10:18	55° 17.00' N	16° 14.73' E	74	Bongo net	surface
356-1	24.05.12	10:29	55° 17.45' N	16° 14.90' E	74.7	Bongo net	on deck
356-2	24.05.12	10:31	55° 17.48' N	16° 14.98' E	74.7	WP 2	surface
356-2	24.05.12	10:41	55° 17.46' N	16° 14.95' E	74.6	WP 2	on deck
356-3	24.05.12	10:44	55° 17.46' N	16° 14.94' E	74.5	CTD	surface
356-3	24.05.12	10:49	55° 17.46' N	16° 14.92' E	74.2	CTD	on deck
357-1	24.05.12	11:46	55° 17.48' N	16° 29.99' E	62.1	CTD	surface
357-1	24.05.12	11:51	55° 17.49' N	16° 29.98' E	61.5	CTD	on deck
357-2	24.05.12	11:54	55° 17.53' N	16° 30.01' E	61.4	Bongo net	surface
357-2	24.05.12	12:04	55° 17.93' N	16° 30.40' E	62.8	Bongo net	on deck
358-1	24.05.12	12:15	55° 17.52' N	16° 30.24' E	62.9	towed CTD	surface
358-1	24.05.12	12:15	55° 17.52' N	16° 30.24' E	62.9	towed CTD	on deck
359-1	24.05.12	14:22	55° 13.94' N	16° 47.33' E	78.8	Bongo net	surface
359-1	24.05.12	14:32	55° 14.42' N	16° 47.56' E	77.3	Bongo net	on deck
360-1	24.05.12	16:37	55° 14.68' N	17° 5.57' E	85.8	Bongo net	surface
360-1	24.05.12	16:50	55° 15.31' N	17° 5.92' E	82.3	Bongo net	on deck
361-1	24.05.12	18:51	55° 14.07' N	17° 22.94' E	89.7	Bongo net	surface
361-1	24.05.12	19:05	55° 14.61' N	17° 23.51' E	90.4	Bongo net	on deck
362-1	24.05.12	20:24	55° 15.01' N	17° 34.75' E	82.2	Bongo net	surface
362-1	24.05.12	20:35	55° 15.49' N	17° 35.07' E	85.2	Bongo net	on deck
358-1	24.05.12	21:07	55° 14.94' N	17° 39.35' E	67.9	towed CTD	surface
358-1	24.05.12	22:46	55° 13.40' N	17° 35.20' E	62.7	towed CTD	on deck
358-1	25.05.12	1:04	55° 24.78' N	17° 35.02' E	67.2	towed CTD	surface
358-1	25.05.12	1:05	55° 24.86' N	17° 35.03' E	66.9	towed CTD	on deck
363-1	25.05.12	1:09	55° 24.99' N	17° 35.02' E	66.3	IKS 80	surface
363-1	25.05.12	1:17	55° 25.04' N	17° 35.03' E	66	IKS 80	on deck
364-1	25.05.12	2:16	55° 20.51' N	17° 21.49' E	71.8	Bongo net	surface
364-1	25.05.12	2:26	55° 20.92' N	17° 21.95' E	71.4	Bongo net	on deck
364-2	25.05.12	2:30	55° 20.98' N	17° 22.04' E	71.6	CTD	surface
364-2	25.05.12	2:37	55° 21.03' N	17° 21.99' E	71.5	CTD	on deck
365-1	25.05.12	3:37	55° 20.99' N	17° 4.96' E	67.6	CTD	surface
365-1	25.05.12	3:43	55° 21.07' N	17° 4.96' E	67.6	CTD	on deck
365-2	25.05.12	3:46	55° 21.14' N	17° 4.99' E	67.3	Bongo net	surface
365-2	25.05.12	3:55	55° 21.51' N	17° 5.42' E	66.4	Bongo net	on deck
366-1	25.05.12	4:56	55° 20.41' N	16° 47.97' E	67	Bongo net	surface
366-1	25.05.12	5:07	55° 20.93' N	16° 47.86' E	66.1	Bongo net	on deck
366-2	25.05.12	5:10	55° 21.01' N	16° 47.94' E	65.9	CTD	surface
366-2	25.05.12	5:16	55° 21.03' N	16° 47.93' E	65.9	CTD	on deck
367-1	25.05.12	6:28	55° 27.49' N	16° 29.98' E	58.2	CTD	surface
367-1	25.05.12	6:33	55° 27.53' N	16° 29.98' E	58.5	CTD	on deck
367-2	25.05.12	6:36	55° 27.60' N	16° 30.05' E	58.7	Bongo net	surface
367-2	25.05.12	6:44	55° 27.94' N	16° 30.45' E	58.4	Bongo net	on deck

Table 2 continued

368-1	25.05.12	9:27	55° 17.48' N	15° 45.05' E	97.7	WP 2	surface
368-1	25.05.12	9:40	55° 17.56' N	15° 44.95' E	97.2	WP 2	on deck
368-2	25.05.12	9:43	55° 17.56' N	15° 44.98' E	98.9	CTD	surface
368-2	25.05.12	9:51	55° 17.56' N	15° 45.02' E	98.4	CTD	on deck
368-3	25.05.12	9:53	55° 17.57' N	15° 45.03' E	100.3	towed multinet MAXI	surface
368-3	25.05.12	10:34	55° 19.05' N	15° 47.08' E	95	towed multinet MAXI	on deck
368-4	25.05.12	11:01	55° 17.54' N	15° 44.94' E	99.3	towed multinet MAXI	surface
368-4	25.05.12	11:39	55° 19.00' N	15° 46.86' E	94.9	towed multinet MAXI	on deck
368-5	25.05.12	12:06	55° 17.52' N	15° 44.91' E	98.9	towed multinet MAXI	surface
368-5	25.05.12	12:40	55° 18.82' N	15° 46.69' E	98.6	towed multinet MAXI	on deck
368-6	25.05.12	13:05	55° 17.48' N	15° 44.93' E	99.2	towed multinet MAXI	surface
368-6	25.05.12	13:44	55° 19.07' N	15° 46.52' E	98.3	towed multinet MAXI	on deck
368-7	25.05.12	14:12	55° 17.48' N	15° 45.04' E	95.9	towed multinet MAXI	surface
368-7	25.05.12	14:45	55° 18.84' N	15° 46.70' E	97.8	towed multinet MAXI	on deck
368-8	25.05.12	14:50	55° 18.76' N	15° 46.71' E	95.2	Bongo net	surface
368-8	25.05.12	15:08	55° 18.07' N	15° 45.78' E	97.5	Bongo net	on deck
368-9	25.05.12	15:11	55° 17.98' N	15° 45.66' E	95.6	Bongo net	surface
368-9	25.05.12	15:31	55° 17.21' N	15° 44.50' E	96.6	Bongo net	on deck
368-1	25.05.12	15:42	55° 17.55' N	15° 45.17' E	97.6	towed multinet MAXI	surface
368-1	25.05.12	16:25	55° 19.25' N	15° 47.20' E	97.9	towed multinet MAXI	on deck
368-1	25.05.12	16:54	55° 17.46' N	15° 45.02' E	95.7	towed multinet MAXI	surface
368-1	25.05.12	17:32	55° 18.95' N	15° 46.93' E	97.9	towed multinet MAXI	on deck
369-1	25.05.12	17:57	55° 20.55' N	15° 50.27' E	93.1	Bongo net	surface
369-1	25.05.12	18:12	55° 19.80' N	15° 50.30' E	95.5	Bongo net	on deck
370-1	25.05.12	18:31	55° 17.55' N	15° 50.30' E	96.3	Bongo net	surface
370-1	25.05.12	18:48	55° 16.66' N	15° 50.26' E	94.9	Bongo net	on deck
371-1	25.05.12	19:02	55° 15.03' N	15° 50.32' E	95.6	Bongo net	surface
371-1	25.05.12	19:16	55° 14.47' N	15° 49.88' E	92.8	Bongo net	on deck
372-1	25.05.12	19:33	55° 14.42' N	15° 45.61' E	97.3	Bongo net	surface
372-1	25.05.12	19:46	55° 14.78' N	15° 44.92' E	96.9	Bongo net	on deck
373-1	25.05.12	20:02	55° 17.16' N	15° 45.03' E	98.4	Bongo net	surface
373-1	25.05.12	20:14	55° 17.75' N	15° 45.00' E	99.3	Bongo net	on deck
374-1	25.05.12	20:33	55° 20.59' N	15° 45.30' E	96	Bongo net	surface
374-1	25.05.12	20:46	55° 20.49' N	15° 44.18' E	94.6	Bongo net	on deck
375-1	25.05.12	21:01	55° 20.58' N	15° 40.28' E	98.4	Bongo net	surface
375-1	25.05.12	21:15	55° 20.58' N	15° 39.12' E	95	Bongo net	on deck
376-1	25.05.12	21:35	55° 17.46' N	15° 39.54' E	96.2	Bongo net	surface
376-1	25.05.12	21:48	55° 17.10' N	15° 40.01' E	100.8	Bongo net	on deck
377-1	25.05.12	22:04	55° 14.74' N	15° 39.28' E	102.6	Bongo net	surface
377-1	25.05.12	22:17	55° 14.30' N	15° 39.75' E	106.1	Bongo net	on deck
378-1	25.05.12	22:22	55° 14.43' N	15° 39.55' E	103.5	towed CTD	on deck
378-1	25.05.12	22:25	55° 14.44' N	15° 39.80' E	101.6	towed CTD	surface
378-1	26.05.12	3:04	55° 20.50' N	15° 49.56' E	93.7	towed CTD	on deck
378-1	26.05.12	3:06	55° 20.51' N	15° 49.85' E	93.6	towed CTD	surface
379-1	26.05.12	4:57	55° 15.32' N	15° 40.75' E	95.5	Pelagic trawl	surface
379-1	26.05.12	5:09	55° 14.84' N	15° 40.12' E	101.3	Pelagic trawl	begin fishing
379-1	26.05.12	5:39	55° 13.74' N	15° 38.64' E	102.1	Pelagic trawl	end fishing
379-1	26.05.12	6:02	55° 13.02' N	15° 37.75' E	94.9	Pelagic trawl	on deck

Table 2 continued

380-1	26.05.12	8:34	55° 14.83' N	15° 49.94' E	95.4	Pelagic trawl	surface
380-1	26.05.12	8:45	55° 14.21' N	15° 50.06' E	95.5	Pelagic trawl	begin fishing
380-1	26.05.12	9:05	55° 13.28' N	15° 50.32' E	92.3	Pelagic trawl	end fishing
380-1	26.05.12	9:19	55° 12.65' N	15° 50.66' E	92.2	Pelagic trawl	on deck
381-1	26.05.12	10:40	55° 17.40' N	15° 46.08' E	100.2	Pelagic trawl	surface
381-1	26.05.12	10:49	55° 17.34' N	15° 45.20' E	95.4	Pelagic trawl	begin fishing
381-1	26.05.12	11:19	55° 17.49' N	15° 42.61' E	96.6	Pelagic trawl	end fishing
381-1	26.05.12	11:33	55° 17.57' N	15° 41.77' E	96.2	Pelagic trawl	on deck
382-1	26.05.12	12:48	55° 20.72' N	15° 37.38' E	98.2	Pelagic trawl	surface
382-1	26.05.12	13:02	55° 20.42' N	15° 38.61' E	96.9	Pelagic trawl	begin fishing
382-1	26.05.12	13:22	55° 20.00' N	15° 40.13' E	96.6	Pelagic trawl	end fishing
382-1	26.05.12	13:35	55° 19.86' N	15° 40.78' E	95.4	Pelagic trawl	on deck
383-1	26.05.12	14:37	55° 21.53' N	15° 51.20' E	93.8	Pelagic trawl	surface
383-1	26.05.12	14:52	55° 20.76' N	15° 50.57' E	95.1	Pelagic trawl	begin fishing
383-1	26.05.12	15:12	55° 19.91' N	15° 49.81' E	95.5	Pelagic trawl	end fishing
383-1	26.05.12	15:25	55° 19.48' N	15° 49.35' E	95.8	Pelagic trawl	on deck
384-1	26.05.12	16:26	55° 17.58' N	15° 50.25' E	95.6	towed CTD	surface
384-1	26.05.12	16:27	55° 17.53' N	15° 50.25' E	93.9	towed CTD	on deck
384-1	27.05.12	0:36	55° 20.47' N	15° 45.03' E	97.1	towed CTD	surface
384-1	27.05.12	0:45	55° 21.10' N	15° 45.04' E	96.1	towed CTD	on deck
385-1	27.05.12	5:00	55° 27.68' N	14° 59.80' E	78.7	Pelagic trawl	surface
385-1	27.05.12	5:14	55° 28.14' N	15° 0.86' E	76.3	Pelagic trawl	begin fishing
385-1	27.05.12	5:26	55° 28.50' N	15° 1.67' E	69.6	Pelagic trawl	end fishing
385-1	27.05.12	5:41	55° 28.90' N	15° 2.54' E	74.6	Pelagic trawl	on deck
386-1	27.05.12	6:31	55° 27.41' N	15° 15.07' E	93	Pelagic trawl	surface
386-1	27.05.12	6:46	55° 27.15' N	15° 16.60' E	91.6	Pelagic trawl	begin fishing
386-1	27.05.12	7:10	55° 26.84' N	15° 18.59' E	91.7	Pelagic trawl	end fishing
386-1	27.05.12	7:25	55° 26.88' N	15° 19.71' E	87.4	Pelagic trawl	on deck
387-1	27.05.12	8:28	55° 17.56' N	15° 16.04' E	83.7	Pelagic trawl	surface
387-1	27.05.12	8:40	55° 17.61' N	15° 17.15' E	90.4	Pelagic trawl	begin fishing
387-1	27.05.12	9:04	55° 17.71' N	15° 19.20' E	90.2	Pelagic trawl	end fishing
387-1	27.05.12	9:19	55° 17.94' N	15° 20.28' E	89.6	Pelagic trawl	on deck
388-1	27.05.12	10:44	55° 5.45' N	15° 18.25' E	75.3	Pelagic trawl	surface
388-1	27.05.12	10:56	55° 5.44' N	15° 19.35' E	77.4	Pelagic trawl	begin fishing
388-1	27.05.12	11:21	55° 5.29' N	15° 21.41' E	72.9	Pelagic trawl	end fishing
388-1	27.05.12	11:33	55° 5.25' N	15° 22.06' E	73	Pelagic trawl	on deck
389-1	27.05.12	12:37	54° 55.32' N	15° 22.30' E	76.1	Pelagic trawl	surface
389-1	27.05.12	12:49	54° 54.65' N	15° 22.09' E	72.8	Pelagic trawl	begin fishing
389-1	27.05.12	13:20	54° 53.21' N	15° 21.63' E	71.9	Pelagic trawl	end fishing
389-1	27.05.12	13:30	54° 52.91' N	15° 21.54' E	71.9	Pelagic trawl	on deck