

**Table S1.** List of hauls carried out in the neuston layer (0-20 cm), and abundance of transforming and juvenile myctophids (N/1000 m<sup>3</sup>). Blanks indicate 0 specimens. For each station several casts were performed at different times of the day. UTC: Coordinated universal time.

Station	Cast	Date	UTC	Light	Volume (m <sup>3</sup> )	Longitude °W	Latitude °N	<i>D. asper</i>	<i>G. cocco</i>	<i>M. affine</i>	<i>M. nitidulum</i>
2	1	2015-04-07	13:45	Day	176.7	31.78	-9.92				
2	2	2015-04-07	16:43	Day	191.2	31.78	-9.92				
2	3	2015-04-07	19:11	Night	96.2	31.86	-10.04				
2	4	2015-04-07	21:45	Night	100.9	31.86	-10.04				
2	5	2015-04-07	00:28	Night	125.3	31.86	-10.04				
2	6	2015-04-07	02:46	Night	117.1	31.86	-10.04				
2	7	2015-04-07	05:14	Day	104.9	31.86	-10.04				
3	1	2015-04-09	11:08	Day	108.5	30.41	-6.48				
3	2	2015-04-09	13:01	Day	105.5	30.41	-6.48				
3	3	2015-04-09	14:49	Day	143.2	30.41	-6.48				
3	4	2015-04-09	17:16	Day	140.6	30.41	-6.48				
3	5	2015-04-09	19:49	Night	187.9	30.41	-6.48				
3	6	2015-04-09	20:26	Night	128.6	30.41	-6.48				
3	7	2015-04-09	22:55	Night	132.4	30.41	-6.48				
3	8	2015-04-09	00:28	Night	135.4	30.41	-6.48				
3	9	2015-04-09	2:15	Night	139.9	30.41	-6.48				
3	10	2015-04-09	05:28	Day	208.1	30.11	-6.55				
4	1	2015-04-11	09:59	Day	183.6	28.46	-3.13				
4	2	2015-04-11	12:39	Day	170.5	28.46	-3.13				
4	3	2015-04-11	15:29	Day	118.0	28.46	-3.13				
4	4	2015-04-11	17:36	Day	132.7	28.46	-3.13				
4	5	2015-04-11	19:18	Day	124.0	28.46	-3.13				
4	6	2015-04-11	20:56	Night	117.0	28.43	-3.12	103			17
4	7	2015-04-11	23:54	Night	200.3	28.43	-3.12	55			110
4	8	2015-04-11	02:54	Night	147.5	28.43	-3.12				
4	9	2015-04-11	07:21	Day	180.0	26.68	0.25				
5	1	2015-04-13	10:04	Night	135.1	26.34	0.24				
5	2	2015-04-13	12:31	Day	150.6	25.38	3.72				
7	1	2015-04-17	09:47	Night	175.4	25.26	3.75				
7	2	2015-04-17	12:18	Day	151.6	25.26	3.75				
7	3	2015-04-17	13:37	Day	197.6	25.26	3.75				
7	4	2015-04-17	17:06	Day	204.5	25.26	3.75				
7	5	2015-04-17	20:04	Day	144.3	23.91	7.32				
7	6	2015-04-17	23:02	Night	149.0	23.96	7.23	181		262	443
7	7	2015-04-17	01:49	Night	150.6	23.96	7.23	27		226	232
7	8	2015-04-17	04:00	Night	141.1	23.96	7.23	539	43	298	106
8	1	2015-04-19	10:00	Day	77.2	22.69	10.86				
8	2	2015-04-19	12:09	Day	92.6	22.69	10.86				
8	3	2015-04-19	14:34	Day	138.5	22.69	10.86				
8	4	2015-04-19	17:24	Day	98.7	22.69	10.86				
8	5	2015-04-19	19:58	Night	108.3	22.69	10.86				
8	6	2015-04-19	22:03	Night	124.7	22.69	10.86	80		946	120
8	7	2015-04-19	00:00	Night	95.1	22.69	10.86	0	11	473	210
8	8	2015-04-19	02:08	Night	46.7	22.69	10.86	193	21	1672	86
8	9	2015-04-19	04:42	Night	111.9	22.69	10.86	36	9	1091	134

8	10	2015-04-19	07:04	Day	80.9	22.66	10.78				
9	1	2015-04-21	09:46	Day	101.3	21.39	14.41				
9	2	2015-04-21	12:46	Day	118.5	21.39	14.41				
9	3	2015-04-21	15:45	Day	61.1	21.39	14.41				
9	4	2015-04-21	18:34	Day	54.8	21.39	14.41				
9	5	2015-04-21	20:35	Night	32.2	21.36	14.37	62	93	311	155
9	6	2015-04-21	23:05	Night	75.3	21.36	14.37	27	27	598	425
9	7	2015-04-21	01:03	Night	80.5	21.36	14.37	25	25	397	137
9	8	2015-04-21	03:33	Night	67.4	21.36	14.37	15	59	830	267
9	9	2015-04-21	06:54	Day	87.4	21.36	14.37				
11	1	2015-04-25	8:56	Day	32.1	20.19	18.01				
11	2	2015-04-25	11:19	Day	29.2	20.19	18.01				
11	3	2015-04-25	13:31	Day	27.4	20.19	18.01				
11	4	2015-04-25	15:55	Night	20.6	20.19	18.16				
11	5	2015-04-25	19:17	Day	49.7	18.81	21.64				
11	6	2015-04-25	21:00	Night	43.7	18.86	21.64				
11	7	2015-04-25	23:04	Night	56.9	18.86	21.64				18
11	8	2015-04-25	1:18	Night	54.6	18.86	21.64				18
11	9	2015-04-25	4:03	Night	48.7	18.86	21.64		41		82
12	1	2015-04-27	9:24	Day	76.9	17.42	25.27				
12	2	2015-04-27	11:25	Day	139.4	17.42	25.27				
12	3	2015-04-27	13:35	Day	87.7	17.42	25.27				
12	4	2015-04-27	16:01	Day	114.5	17.42	25.27				
12	5	2015-04-27	19:14	Day	25.4	17.48	25.31				
12	6	2015-04-27	21:41	Night	26.3	17.48	25.31				
12	7	2015-04-27	23:28	Night	131.0	17.48	25.31		160		99
12	8	2015-04-27	1:25	Night	124.8	17.48	25.31		289		224
12	9	2015-04-27	3:57	Night	45.6	17.48	25.31				