Diversity in zooplankton and sympagic biota during a period of rapid sea ice change in Terra Nova Bay, Ross Sea, Antarctica

Antonia Granata [1], Christine K. Weldrick [2], Andrea Bergamasco [3], Maria Saggiomo [4], Marco Grillo[5,6], Alessandro Bergamasco [3,*], Kerrie M. Swadling [7,2,9] and Letterio Guglielmo [8,9]

SUPPLEMENTARY MATERIAL

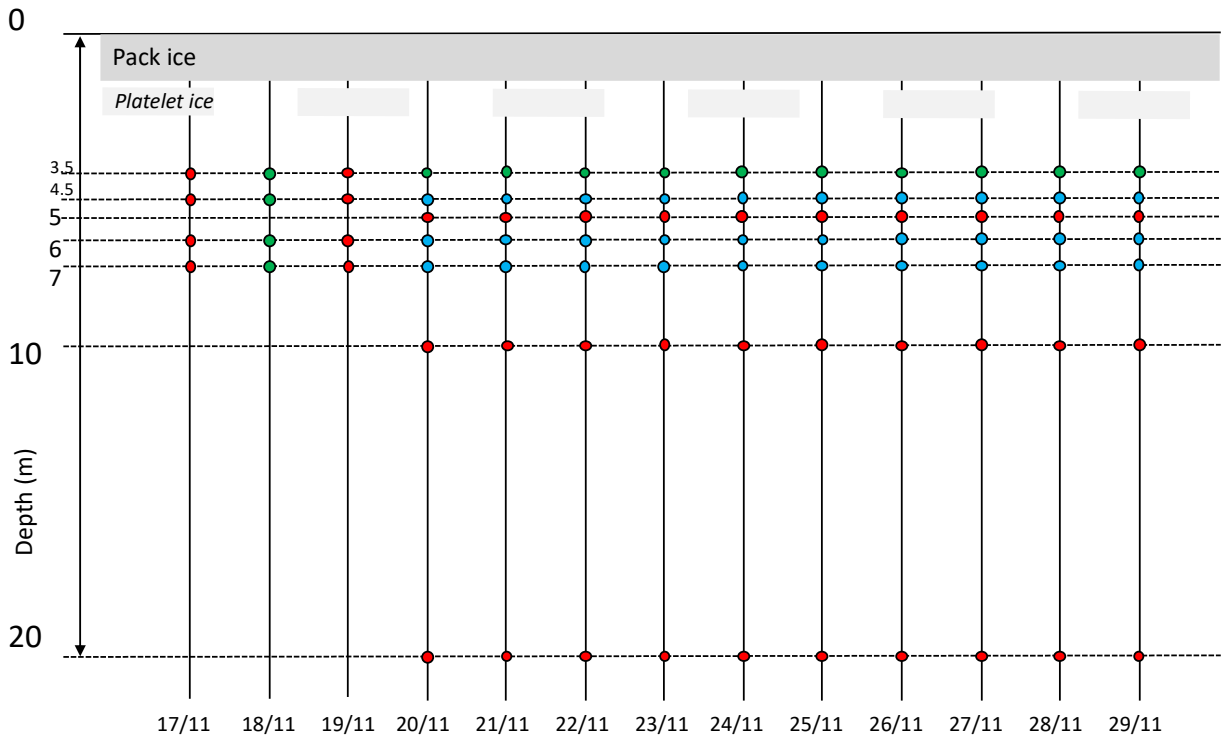


Figure S1. The sampling scheme during the PIPEX campaign (17-29 November 1997) in Terra Nova Bay, Antarctica. Overall, 96 tows were performed with MICRONESS at different depths: red dots indicate afternoon tows (38), blue dots indicate morning tows (30) and green dots indicate morning and afternoon tows (28).

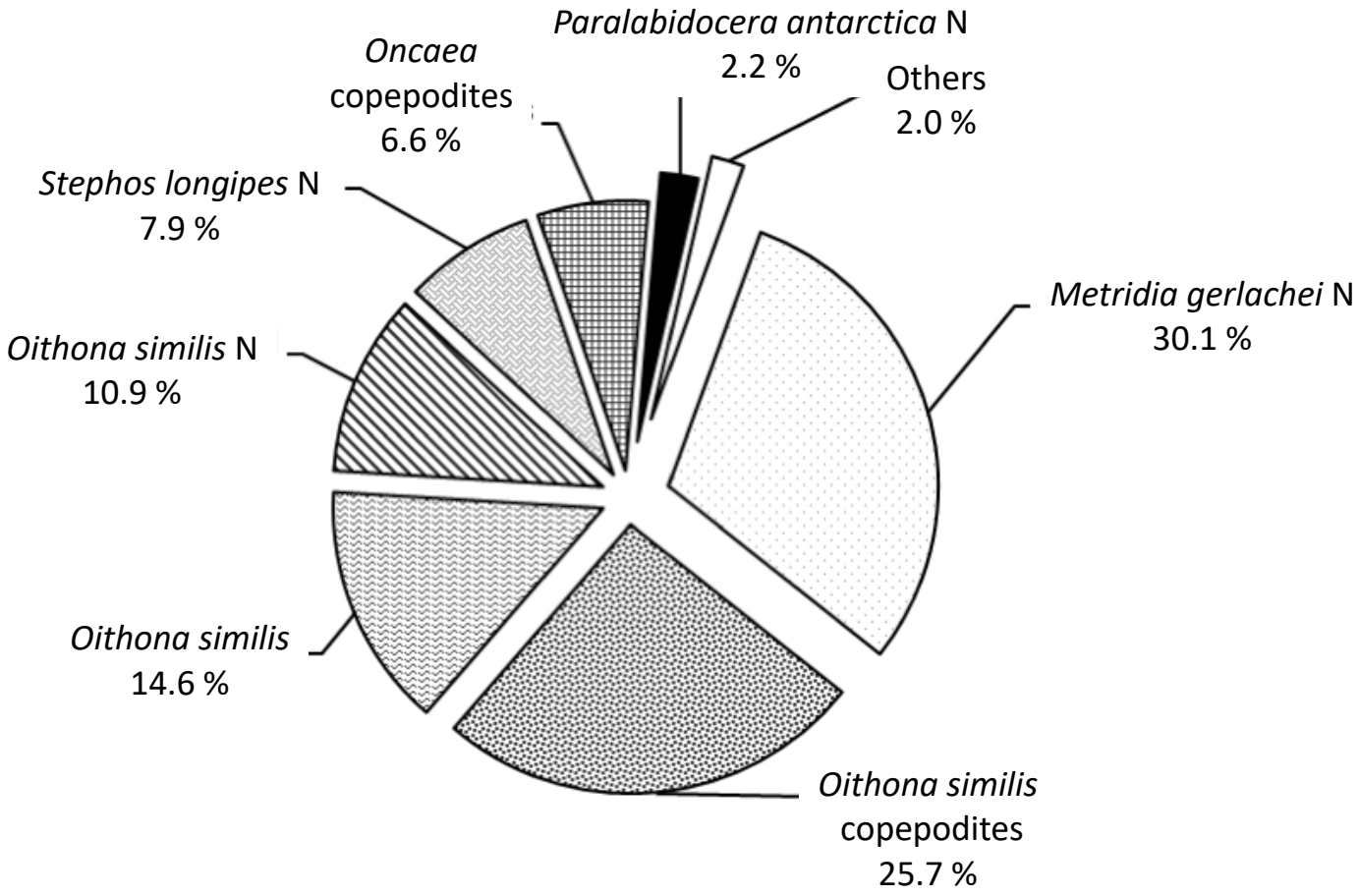


Figure S2. Terra Nova Bay, Antarctica, November 1997. Average percentage of copepod community structure throughout the sampling period (N = nauplii).

Table S1. Sampling routes, at station 5t, of the MicroNESS mounted on "Romeo" ROV. Mouth, 13 cm × 27 cm; mouth area, 0.0351 m^2; 100-µm mesh net; medium speed, 35 cm s^{-1}.

Date	Tow code	Route depth (m)	Start	End	Tow time (min)	Filtered volume (m^3)
17/11/1997	mness01a	3.5	17:25:00		54	39.8
	mness01b	4.5	18:19:00		26	19.16
	mness01c	6.0	18:45:00		17	12.53
	mness01d	7.0	19:02:00	19:20:00	18	13.27
18/11/1997	mness02a	3.5	18:01:00		23	16.95
	mness02b	4.5	18:24:00		14	10.32
	mness02c	6.0	18:38:00		14	10.32
	mness02d	7.0	18:52:00	19:10:00	18	13.27
	mness03a	3.5	10:56:00		16	11.79
	mness03b	4.5	11:12:00		14	10.32
	mness03c	6.0	11:26:00		14	10.32
	mness03d	7.0	11:40:00	11:55:00	15	11.06
19/11/1997	mness04a	3.5	18:22:00		14	10.32
	mness04b	4.5	18:36:00		13	9.58
	mness04c	6.0	18:49:00		15	11.06
	mness04d	7.0	19:04:00	19:19:00	15	11.06
20/11/1997	mness05a	3.5	11:13:00		14	10.32
	mness05b	4.5	11:27:00		13	9.58
	mness05c	6.0	11:40:00		14	10.32
	mness05d	7.0	11:53:51	12:07:02	13	9.58
	mness06a	3.5	17:27:00		14	10.32
	mness06b	5.0	17:41:00		14	10.32
	mness06c	10.0	17:55:00		14	10.32
	mness06d	20.0	18:09:00	18:24:00	15	11.06
21/11/1997	mness07a	3.5	10:46:00		15	11.06
	mness07b	4.5	11:01:00		13	9.58
	mnees07c	6.0	11:14:00		14	10.32
	mness07d	7,0	11:28:00	11:40:00	12	8.85
	mness08e	3.5	17:46:00		15	11.06
	mness08f	5.0	18:01:00		15	11.06
	mness08g	10.0	18:16:00		15	11.06
	mness08h	20.0	18:31:00	18:45:00	15	11.06
22/11/1997	mness09a	3.5	12:05:00		14	10.32
	mness09b	4.5	12:19:00		15	11.06
	mness09c	6,0	12:34:00		12	8.85
	mness09d	7.0	12:46:00	13:00:00	14	10.32
	mness10e	3.5	17:03:00		15	11.06
	mness10f	5.0	17:18:00		15	11.06
	mness10g	10.0	17:33:00		15	11.06
	mness10h	20.0	17:48:00	18:03:35	15	11.06
23/11/1997	mness11a	3.5	11:03:00		16	11.79
	mness11b	4.5	11:19:00		15	11.06
	mness11c	6,0	11:34:00		14	10.32
	mness11d	7.0	11:48:00	12:01:00	13	9.58
	mness12e	3.5	17:20:00		13	9.58
	mness12f	5.0	17:35:00		15	11.06
	mness12g	10.0	17:50:00		13	9.58
	mness12h	20.0	18:05:00	18:20:00	15	11.06
24/11/1997	mness13a	3.5	10:43:00		16	11.79
	mness13b	4.5	10:59:00		16	11.79
	mness13c	6.0	11:15:00		15	11.06

	mness13d	7.0	11:30:00	11:46:00	16	11.79
	mness14e	3.5	17:21:00		16	11.79
	mness14f	5.0	17:37:00		15	11.06
	mness14g	10.0	17:52:00		16	11.79
	mness14h	20.0	18:08:00	18:22:00	14	10.32
25/11/1997	mness15a	3.5	11:34:00		16	11.79
	mness15b	4.5	11:50:00		16	11.79
	mness15c	6.0	12:06:00		16	11.79
	mness15d	7.0	12:22:00	12:37:00	15	11.06
	mness16e	3.5	17:36:00		16	11.79
	mness16f	5.0	17:52:00		32	23.59
	mness16g	10.0	18:24:00		16	11.79
	mness16h	20.0	18:40:00	18:55:00	15	11.06
26/11/1997	mness17a	3.5	10:45:00		16	11.79
	mness17b	4.5	11:01:00		15	11.06
	mness17c	6.0	11:16:00		16	11.79
	mness17d	7.0	11:32:00	11:48:00	16	11.79
	mness18e	3.5	16:55:00		16	11.79
	mness18f	5.0	17:11:00		16	11.79
	mness18g	10.0	17:27:00		16	11.79
	mness18h	20.0	17:43:00	17:58:00	15	11.06
27/11/1997	mness19a	3.5	11:22:00		16	11.79
	mness19b	4.5	11:38:00		16	11.79
	mness19c	6.0	11:54:00		16	11.79
	mness19d	7.0	12:10:00	12:26:00	16	11.79
	mness20e	3.5	17:13:00		16	11.79
	mness20f	5.0	17:29:00		16	11.79
	mness20g	10.0	18:13:00		16	11.79
	mness20h	20.0	18:29:00	18:44:00	15	11.06
28/11/1997	mness21a	3.5	11:05:00		16	11.79
	mness21b	4.5	11:21:00		16	11.79
	mness21c	6,0	11:37:00		16	11.79
	mness21d	7.0	11:53:00	12:09:00	16	11.79
	mness22e	3.5	17:14:00		16	11.79
	mness22f	5.0	17:30:00		16	11.79
	mness22g	10.0	17:46:00		28	20.64
	mness22h	20.0	18:14:00	18:31:00	17	12.53
29/11/1997	mness23a	3.5	11:41:00		16	11.79
	mness23b	4.5	11:57:00		16	11.79
	mness23c	6.0	12:13:00		16	11.79
	mness23d	7.0	12:29:00	12:45:00	16	11.79
	mness24e	3.5	17:07:00		16	11.79
	mness24f	5.0	17:23:00		16	11.79
	mness24g	10.0	17:39:00		16	11.79
	mness24h	20.0	17:55:00	18:10:00	15	11.06