

Table S1. List of stations conducted onboard the 87th cruise of the R/V *Akademik Mstislav Keldysh* during January-February 2022 in the Atlantic sectors of the Southern Ocean

Station No.	Date	Time	Location	Depth Sampled (m)	Study area	Gears
7294	21.01.2022	10-10	62° 52.0 S 57° 09.4 W	150	Bransfield Strait	CTD, Apshtein net, Bongo net, WP-2 net
7295	21.01.2022	12-40	62° 49.5 S 57° 15.9 W	173	Bransfield Strait	CTD, Apshtein net
7297	21.01.2022	16-00	62° 40.0 S 57° 39.6 W	720	Bransfield Strait	Apshtein net, Bongo net
7299	21.01.2022	22-15	62° 30.9 S 58° 08.0 W	1880	Bransfield Strait	CTD, Multinet, DSN
7301	22.01.2022	19-48	62° 26.3 S 58° 21.2 W	970	Bransfield Strait	CTD, Apshtein net
7303	23.01.2022	04-37	63° 00.1 S 58° 04.2 W	223	Bransfield Strait	CTD, DSN
7305	23.01.2022	14-40	62° 21.0 S 58° 37.0 W	670	Bransfield Strait	CTD, Multinet, Apshtein net, DSN
7308	24.01.2022	08-00	63° 10.0 S 58° 20.0 W	196	Bransfield Strait	CTD, Apshtein net, Bongo net, WP-2 net
7309	24.01.2022	10-53	63° 02.2 S 58° 36.6 W	194	Bransfield Strait	CTD, Apshtein net
7310	24.01.2022	12-54	62° 53.0 S 58° 53.1 W	766	Bransfield Strait	CTD, Multinet, Apshtein net, DSN
7311	24.01.2022	18-00	62° 36.9 S 59° 27.3 W	1258	Bransfield Strait	CTD, Apshtein net
7313	25.01.2022	15-25	62° 33.5 S 59° 33.9 W	400	Bransfield Strait	CTD, Apshtein net
7314	25.01.2022	19-45	62° 35.0 S 59° 31.9 W	603	Bransfield Strait	CTD, Multinet, Apshtein net, DSN

7316	26.01.2022	00-42	62° 40.0 S 59° 22.1 W		Bransfield Strait	CTD, Multinet, Apshtein net, DSN
7318	26.01.2022	14-00	63° 26.4 S 60° 05.7 W	108	Bransfield Strait	CTD, WP-2 net, Apshtein net, DSN
7319	26.01.2022	15-55	63° 20.0 S 60° 13.9 W		Bransfield Strait	CTD, Apshtein net
7320	26.01.2022	17-44	63° 14.4 S 60° 19.3 W	536	Bransfield Strait	CTD, Multinet, Apshtein net, DSN
7323	26.01.2022	23-35	63° 03.4 S 60° 32.9 W	357	Bransfield Strait	Apshtein net, DSN, WP-2 net
7324	27.01.2022	15-55	63° 11.1 S 57° 01.9 W	108	Antarctic Sound	CTD, Apshtein net
7325	27.01.2022	17-44	63° 16.8 S 56° 51.5 W	197	Antarctic Sound	Apshtein net, DSN, WP-2 net
7329	27.01.2022	23-36	63° 22.6 S 56° 43.8 W	310	Antarctic Sound	CTD, Apshtein net
7332	28.01.2022	10-06	63° 28.6 S 56° 31.2 W	1008	Antarctic Sound	CTD, Multinet, Apshtein net, DSN
7333	28.01.2022	13-26	63° 34.9 S 56° 22.8 W	720	Antarctic Sound	CTD, Apshtein net
7334	28.01.2022	16-15	63° 45.0 S 55° 53.1 W	338	Weddell Sea	CTD, Apshtein net
7335	28.01.2022	20-09	64° 09.6 S 56° 01.5 W	380	Weddell Sea	CTD, Apshtein net
7336	29.01.2022	00-00	64° 28.8 S 56° 04.7 W	300	Weddell Sea	CTD, Multinet, Apshtein net, DSN
7339	29.01.2022	12-54	63° 34.1 S 54° 34.9 W	220	Weddell Sea	CTD, Apshtein net
7340	29.01.2022	15-27	63° 27.0 S 54° 12.0 W	237	Weddell Sea	CTD, Apshtein net
7341	29.01.2022	17-40	63° 19.7 S 53° 49.2 W	280	Weddell Sea	CTD, Apshtein net

7343	29.01.2022	22-24	63° 05.5 S 53° 01.3 W	430	Weddell Sea	CTD, Multinet, Apshtein net, DSN
7348	30.01.2022	13-48	62° 50.1 S 52° 12.5 W	2900	Weddell Sea	CTD, Multinet, Apshtein net, DSN
7359	02.02.2022	17-54	62° 34.8 S 51° 23.9 W	3257	Weddell Sea	CTD, Multinet, Apshtein net
7364	06.02.2022	08-29	61° 44.9 S 49° 00.0 W		Weddell Sea	CTD, Multinet, Apshtein net, DSN
7366	06.02.2022	23-02	61° 13.8 S 47° 25.7 W	2600	Weddell Sea	CTD, Multinet, Apshtein net, DSN
7367	07.02.2022	04-44	61° 14.8 S 47° 26.8 W	2934	Weddell Sea	CTD, Apshtein net
7369	07.02.2022	15-55	61° 10.7 S 46° 57.6 W	1000	Weddell Sea	CTD, Apshtein net
7370	07.02.2022	17-56	61° 07.4 S 46° 48.4 W	900	Weddell Sea	CTD, Multinet, Apshtein net, DSN
7372	08.02.2022	08-35	61° 01.9 S 44° 53.6 W	250	off the South Orkney Islands	CTD, Apshtein net
7373	08.02.2022	14-59	60° 56.5 S 43° 18.1 W	365	off the South Orkney Islands	CTD, Multinet, Apshtein net, DSN
7377	09.02.2022	20-45	60° 36.9 S 42° 08.3 W	3580	off the South Orkney Islands	CTD, Multinet, DSN
7382	10.02.2022	18-02	60° 34.4 S 42° 07.4 W	3965	off the South Orkney Islands	CTD, Multinet, DSN
