

ANT - XXVI/2

PARASOUND WATCHBOOK

Art.-Nr. 10-14 232

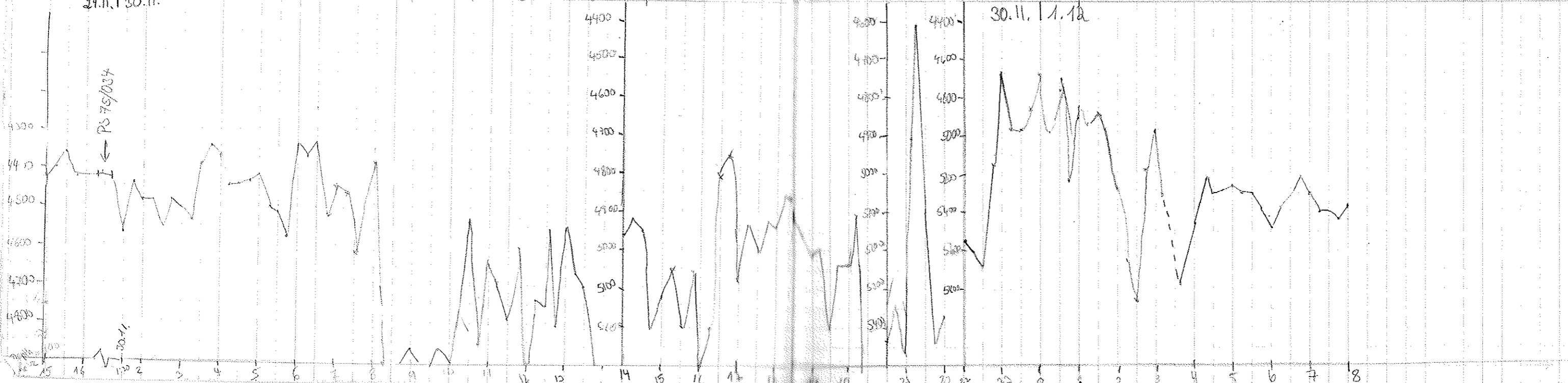
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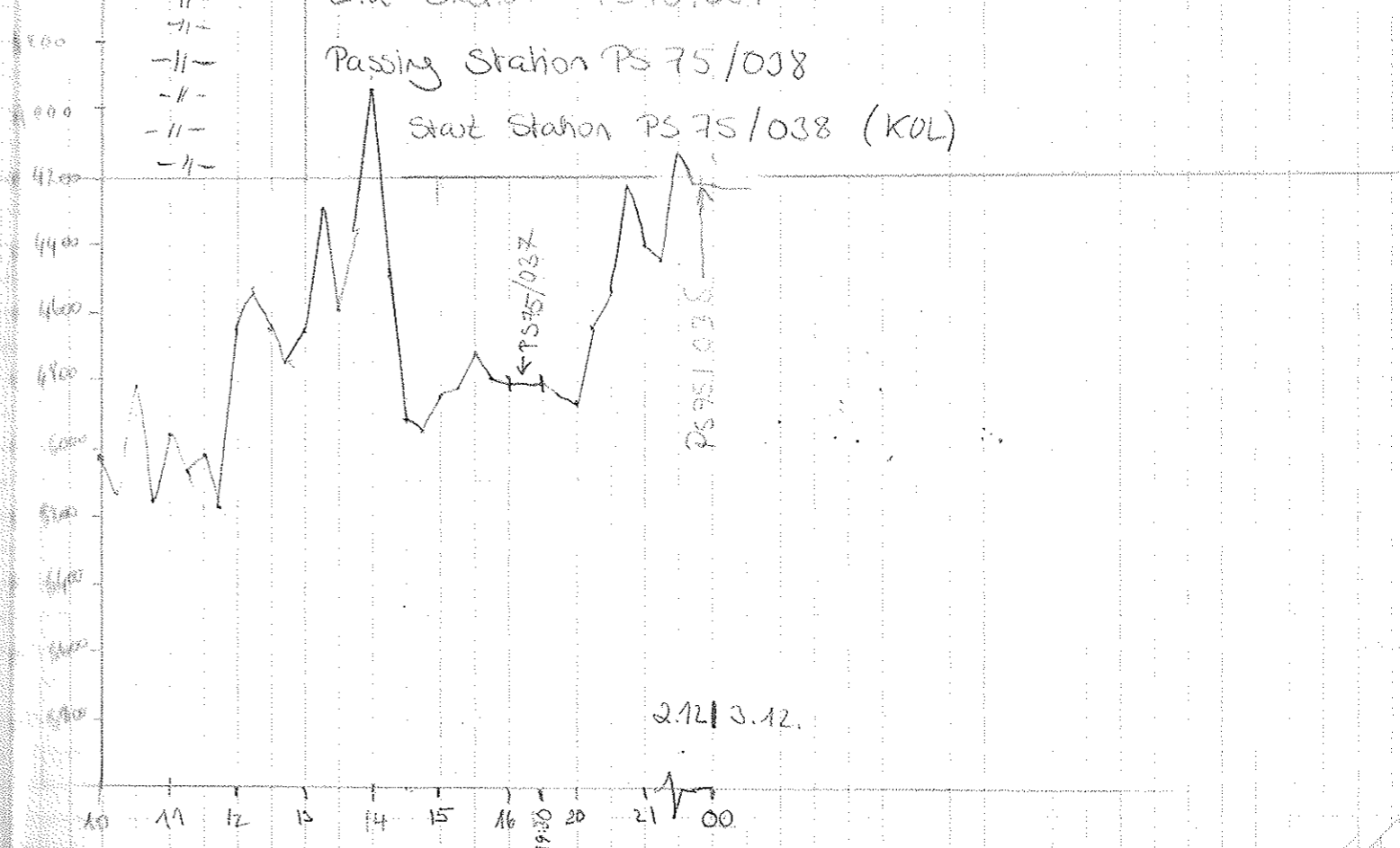
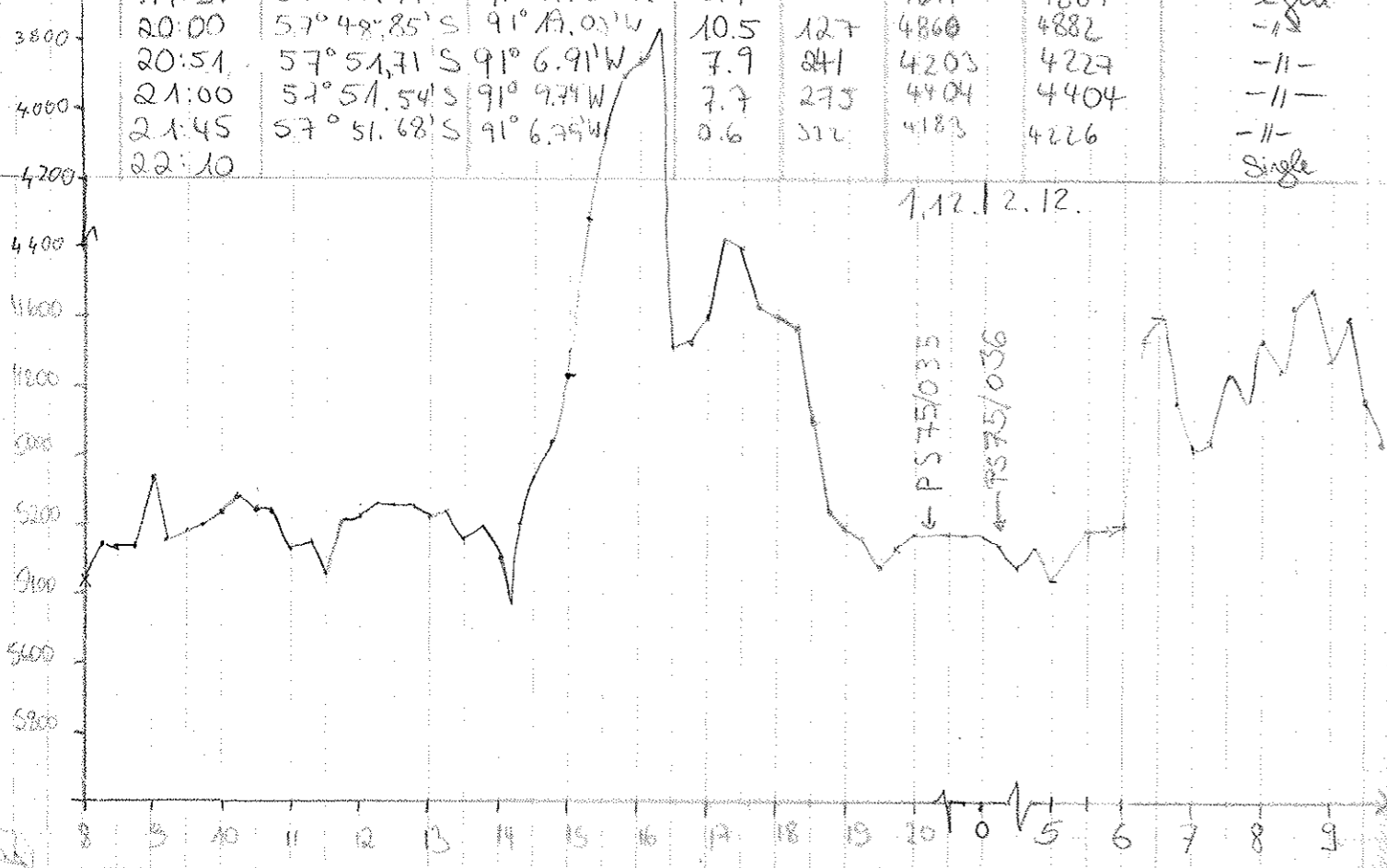
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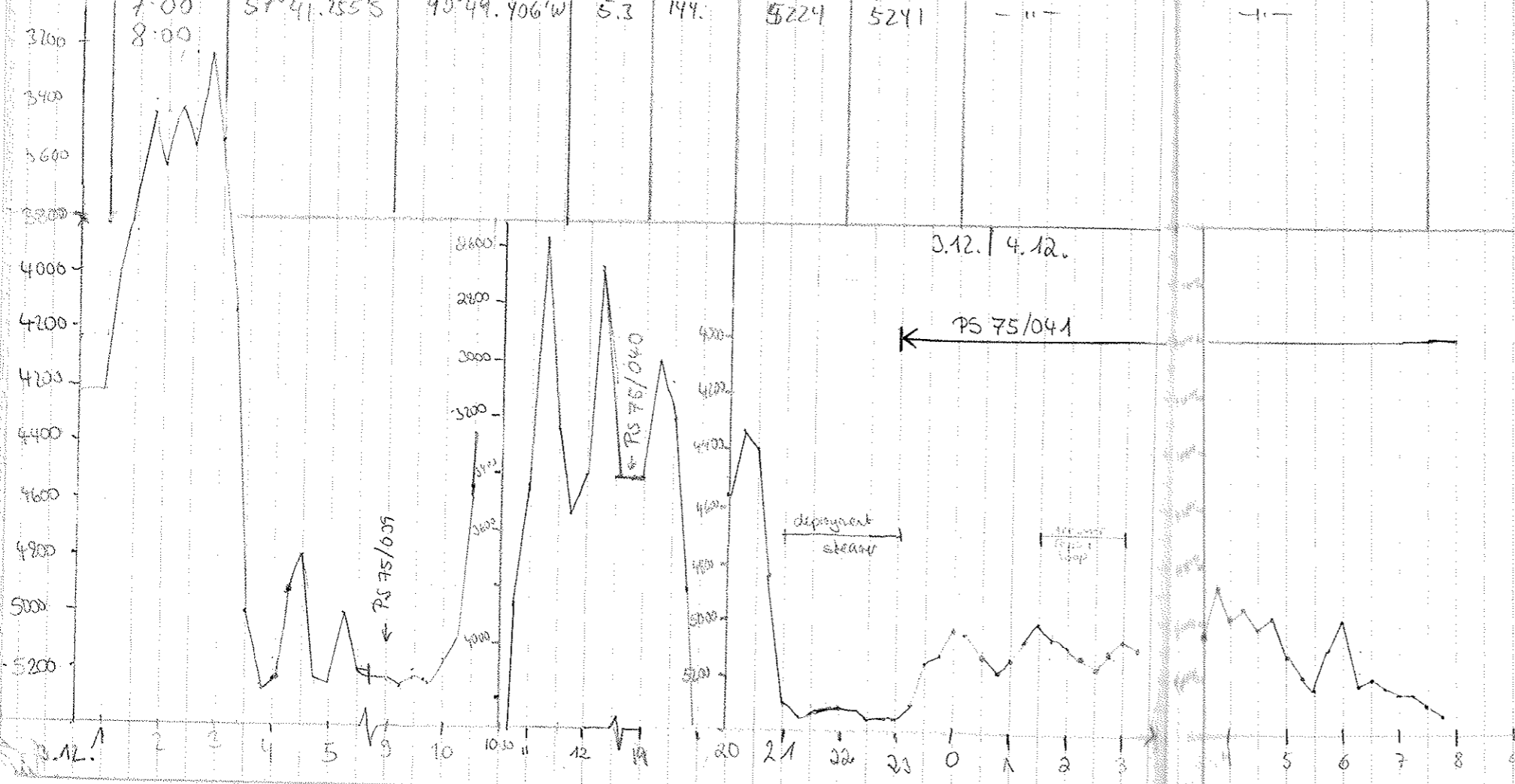
2	UTC Time	Latitude S	Longitude	Speed	Course	Depth PHF	Depth other	Transmission mode	System depth source	Remarks	3
29.11.	15:00	54° 20.487' S	80° 17.700' W	10.7	245	4599	4457.9	equi	manual	Start logging Sichuan Station PS 75/034	
	15:17	54° 27.14' S	80° 5.4' W				4428	"	"		
	16:00	54° 22.14' S	80° 5.32' W	11.3	345.8	4432	4426	"	"		
	16:16	54° 22.05' S	80° 5.38' W	0	87	4424.82	4426.2	single Rise	"	Start Station PS 75/034 (MUC, KISUMU, CTD)	
30.11.	1:24	54° 20.75' S	80° 7.28' W	12.3	322	4480	4486	equi	manual		End Station PS 75/034
	2:00	54° 16.05' S	80° 14.27' W	9.4	234	4470	4483	- -	- -		
	3:00	54° 20.32' S	80° 27.26' W	9.6	240	4504	4502	- -	- -		
	4:00	54° 25.257' S	80° 42.234' W	9.2	240	4240	4462	- -	- -		
	5:00	54° 30.823' S	80° 54.090' W	9.4	242	4358	4420	- -	- -		
	6:00	54° 34.635' S	81° 11.361' W	9.0	242	4394	4352	- -	- -		
	7:14	54° 40.418' S	81° 29.114' W	9.5	245	4418	4429	- -	- -		
	8:00	54° 44.152' S	81° 40.425' W	10	237	4431	4345	- -	- -	Control Algos detected wave → new geobit net Different depth for PHF, ELF & DWS (~800m) & lost on the depth Sometimes PHF depth is 200m off; DWS stopped working	
	9:00	54° 48.992' S	81° 55.090' W	9.8	238	4376	4839	- -	- -		
	10:00	54° 43.433' S	82° 9.059' W	9.6	238.5	4372	4872	- -	- -		
	11:00	54° 58.06' S	82° 23.32' W	9.6	245	4631	4434	- -	- -		
	12:00	55° 2.71' S	82° 37.76' W	9.3	237	4957	4957	- -	- -		
	13:00	55° 7.28' S	82° 51.95' W	9.2	237	4580	4550	- -	- -		
	14:00	55° 11.89' S	83° 6.31' W	9.6	242	4970	4960	- -	- -		
	15:00	55° 16.75' S	83° 21.39' W	11.5	238	5013	5119	- -	- -		
	16:00	55° 22.428' S	83° 35.155' W	12.5	243	5402	5388	- -	- -		
	17:00	55° 28.270' S	83° 57.563' W	12.2	238	4734	5085	- -	- -		
	18:00	55° 34.253' S	84° 16.22' W	12.2	242	4939	4941	- -	- -		
	19:00	55° 40.14' S	84° 34.84' W	12.0	239	4727	5007	- -	- -		
	20:00	55° 45.77' S	84° 52.63' W	10.7	244	5041	5034	- -	- -		
	21:00	55° 50.87' S	85° 8.78' W	11	238	3144	5462	- -	- -		
	22:00	55° 55.82' S	85° 24.44' W	10.6	237	5433	5368	- -	- -		
	23:00	56° 1.02' S	85° 40.88' W	11.0	239	4634	4680	- -	- -		
1.12	0:00	56° 6.307' S	85° 54.43' W	9.8	240	4881	4945	- -	- -		
	1:00	56° 11.328' S	86° 13.732' W	9.8	243	5043	5032	- -	- -		
	2:00	56° 16.595' S	86° 30.615' W	11	238	5216	5321	- -	- -		
	3:00	56° 21.959' S	86° 47.735' W	11	238	4738.0	4854.2	- -	- -		
	3:30	56° 24.766' S	86° 56.837' W	11	241	5126.14	/	- -	- -	Other sounding disappeared	
	4:00	56° 27.379' S	86° 50.936' W	11	241	5332.37	5456.9	- -	- -		
	5:00	56° 32.439' S	87° 21.474' W	10.5	240	5258.9	5263.2	- -	- -		
	6:00	56° 37.528' S	87° 31.962' W	10.8	240	5486.58	5485	- -	- -		
	7:00	56° 42.353' S	87° 53.570' W	10.8	242.1	5271	5381.7	- -	- -		
	8:00	56° 47.682' S	88° 10.897' W	10.4	240.5	5358	5361.4	- -	- -		



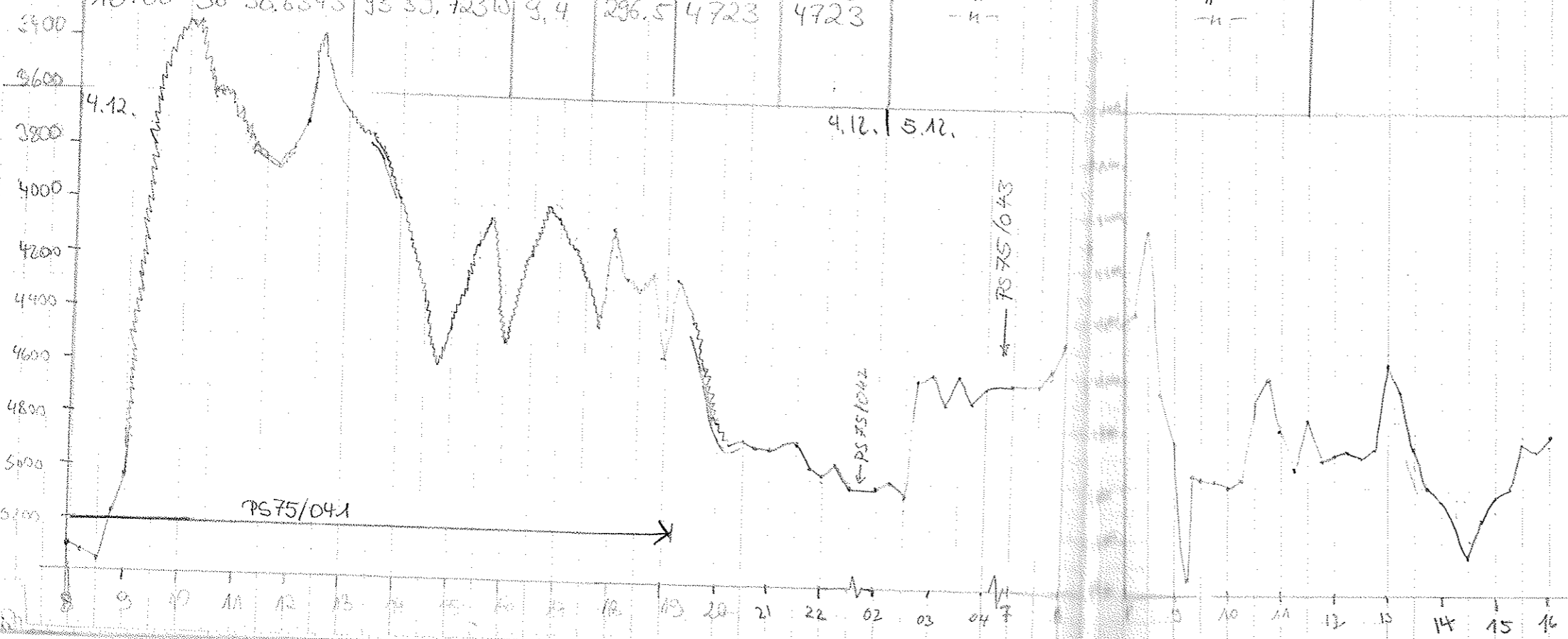
Date 4 UTC	UTC Time	Latitude S	Longitude	Speed	Course	Depth PHF	DWS	Transmission mode	System depth source	Remarks	5	
							Depth other					
1. 12	9:00	56° 53.673 S	88° 28.973 W	10.6	222.1	5276	5120.9	equi	manual			
	10:00	57° 1.747 S	88° 39.718 W	10.7	215.3	5192	5189.7	"	"			
	11:00	57° 11.167 S	88° 52.250 W	10.8	216	5253	5287	- -	- -			
	12:00	57° 19.600 S	89° 3.553 W	11.0	213	5304	5171	- -	- -	11:55-12:05	Signal only from 5150 downwards Signal loss above 5225 for 2 min eq. 6 min } due to short desired time interval	
	13:00	57° 25.704 S	89° 19.301 W	10.2	233	5206	5191	- -	- -	12:30-12:50		
	14:00	57° 31.697 S	89° 35.280 W	10.8	232	5305	5299	- -	- -			
	15:00	57° 37.033 S	89° 52.222 W	10.5	244	4791	4784	"	"			
	16:00	57° 43.158 S	90° 7.522 W	10.5	221	3875	3860	"	"			
	17:00	57° 51.224 S	90° 20.187 W	10.6	223	4581	4548	"	"			
	18:00	57° 59.706 S	90° 28.359 W	11	348	4748	4793	"	"			
	19:00	57° 47.206 S	90° 39.312 W	7.4	320	4830	5215	"	"			
	19:13	57° 46.170 S	90° 40.968 W	7.4	319	3212	5224	- -	- -	Passing Station PS 75/035		
	20:04	57° 46.174 S	90° 40.947 W	0.3	43	5228	5225	Single	- -	Start Station PS 75/035 (KOL)		
	2. 12	0:05	57° 44.181 S	90° 40.960 W	0.9	1.7	5225	5225	- -	- -	Survey for Station PS 75/036	
		0:24	57° 44.44 S	90° 43.56 W	8.1	322	5321	5312	- -	- -	Passing Station PS 75/036	
		1:00	57° 44.652 S	90° 43.05 W	8.3	347	5297	5299	- -	- -		
		1:45	57° 44.37 S	90° 43.51 W	0.4	196	5275	0	Single	- -	Start Station PS 75/036 (KOL)	
		5:00	57° 44.23 S	90° 42.63 W	1.3	60	5297	-	equidist.	- -	End Station - -	
		6:00	57° 51.27 S	90° 35.80 W	9.8	750	5240	520	- -	- -		
7:00		57° 58.72 S	90° 33.35 W	8.3	223	4885	0	- -	- -			
8:00		58° 4.74 S	90° 43.26 W	8.0	230	4850	4730	- -	- -			
9:00		58° 10.716 S	90° 53.55 W	8.2	222	4781	4727	- -	- -			
10:00		58° 10.977 S	91° 8.800 W	8.3	213	4691	5062	- -	- -			
11:00		58° 10.966 S	91° 23.42 S	1.9	271	4853	4957	- -	- -			
12:00		58° 9.954 S	91° 36.998 W	9.5	357	4827	4654	- -	- -			
13:00		58° 6.018 S	91° 25.722 W	10	87	4667	4659	- -	- -			
14:00	57° 56.06 S	91° 24.651 W	9	359	4010	3773	- -	- -				
15:00	57° 49.97 S	91° 24.77 W	7.5	359	4863	4854	- -	- -				
15:19	57° 46.55 S	91° 24.66 W	8.1	4.7	4490	4831	- -	- -	Passing Station PS 75/037			
16:00	57° 46.62 S	91° 24.52 W	1.9	345	4856	-	Single	- -	Start Station PS 75/037 (KOL)			
19:38	57° 46.47 S	91° 24.22 W	5.9	451	4611	4884	equi	- -	End Station PS 75/037			
20:00	57° 48.85 S	91° 19.03 W	10.5	127	4860	4882	- -	- -				
20:51	57° 51.71 S	91° 6.91 W	7.9	841	4203	4227	- -	- -	Passing Station PS 75/038			
21:00	57° 51.54 S	91° 9.74 W	7.7	273	4404	4404	- -	- -	Start Station PS 75/038 (KOL)			
21:45	57° 51.68 S	91° 6.75 W	0.6	312	4183	4226	- -	- -				
22:10							Single	- -				



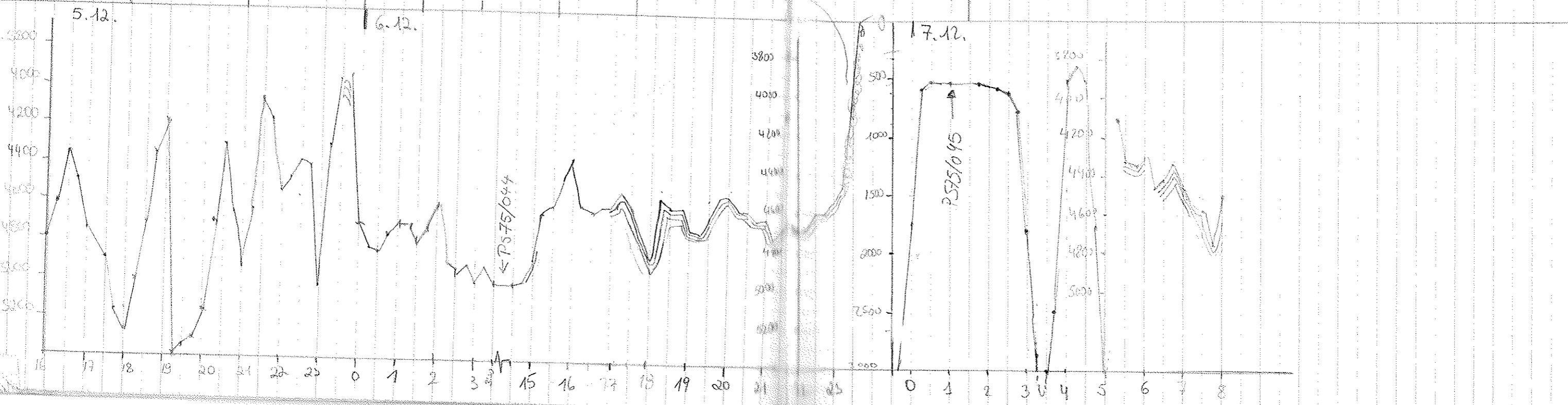
6 Date UTC	Time UTC	Latitude S	Longitude	Speed	Course	Depth PHF	Depth after	Transmission mode	System depth source	Remark	
3.12.04	00:30	57° 51.70'S	91° 06.88' W	0.2	151	42105	4225	equi	other	End of station PS 75/038 (change over sounding system to H. Sney)	
	01:00	57° 51.70'S	91° 06.78' W	3.4	36	42111	4230	-	-		
	02:00	57° 51.20'S	90° 51.04' W	17.9	70	3280	3431	-	-		
	3:00	57° 48.77'S	90° 51.54' W	9	357	3497	3526	-	-		
	4:00	57° 40.300'S	90° 52.07' W	8.2	259	3168	5224	-	-		
	5:00	57° 40.25'S	90° 52.36' W	9.7	247.3	5172	5241	-	-		
	5:03.5	57° 40.00'S	90° 51.73' W	-	-	-	-	-	-		
03.12.05	5:41	57° 40.00'S	90° 51.61' W	0.3	288	5214	5225	single	other	Passing Station PS 75/039 Start Station PS 75/039 (KOL) end station " (wave ceased ~ 11.35) Passing Station PS 75/040 Start Station PS 75/040 (KOL, CTD, 91W) Break Down Powerhouse (after first single or then 30s waiting time was set) End Station PS 75/040 Stopping for deployment of Airgun/Streamer Start seismic profile PS 75/041 Start loop for repairing streamer Restart streamer course / Finish loop 6.72 500m depth, PHF-SLF, turn to course 134°	
	09:19	57° 40.24'S	90° 52.13' W	9.5	18.5	5176	5214	equi	other		
	10:00	57° 39.73'S	90° 55.88' W	7.8	274.5	5149	5147	"	"		
	11:00	57° 38.90'S	91° 09.15' W	7.9	315.4	3358	3355	"	"		
	12:00.5	57° 38.89'S	91° 9.15' W	5.8	336	3413	3414	-	-		
	12:37	57° 38.87'S	91° 9.09' W	0.2	191	3411	3412	single	-		
	15:40	57° 38.75'S	91° 8.82' W	0.2	18	3399	3411	single	-		
	19:00	57° 38.18'S	91° 7.99' W	5.8	279	3334	3349	equi	//		
	20:00	57° 30.20'S	91° 2.79' W	9.9	16.8	4569	4577	-	-		
	21:00	57° 19.88'S	90° 55.29' W	10.3	21	5272	5298	-	-		
	22:00	57° 14.83'S	90° 56.31' W	3.5	161	5297	5309	single	-		
	23:00	57° 18.51'S	90° 53.39' W	5.4	155	5337	5353	-	-		
	4.12.	23:00	57° 18.22'S	90° 52.64' W	5.4	151	5280	5298	equi		-
		0:00	57° 23.55'S	90° 48.25' W	5.5	150	5082	5035	equi		other
1:00		57° 28.02'S	90° 43.80' W	5.3	146	4779	5142	equi	other		
1:27		57° 30.38'S	90° 41.69' W	5.1	168	5080	5093	-	-		
2:00		57° 29.21'S	90° 44.72' W	5.3	232	4740	5095	-	-		
3:00		57° 29.51'S	90° 48.41' W	5.0	154	5070	5082	-	-		
4:00		57° 34.34'S	90° 37.65' W	6.2	157	4996	5008	-	-		
5:00		57° 36.359'S	90° 41.048' W	5.2	241	5107	5127	-	-		
6:00		57° 39.260'S	90° 49.565' W	5.8	239	4979	4997	-	-		
7:00		57° 41.255'S	90° 49.406' W	5.3	144	5224	5241	-	-		



8 UTC	UTC Time	Latitude S	Longitude W	Speed	Course	Depth PHF	Depth other	Transmission mode	System depth course	Remarks
04.12.08	8:00	57°44.682'S	90°43.162'W	5.5	139.3	5318	5324	equi	other	
	9:00	57°46.097'S	90°46.762'W	3.9	227.2	5026	5026	equi	other	
	10:00	57°49.178'S	90°52.770'W	4.4	223.7	3335	3337	equi	other	
	11:00	57°52.635'S	90°59.420'W	5.0	227	3657	3671	"	"	
	11:57	57°54.764'S	91°3.357'W	5.4	192	3848	3864	"	"	
	12:00	57°54.103'S	91°0.220'W	6.4	48	3950	3804	"	"	Start loop during repairing steamer
	13:00	57°52.004'S	91°58.207'W	5.7	223	3620	3635	"	"	
	14:00	57°55.119'S	91°4.272'W	4.8	231	3961	3981	"	"	End loop, continuing profile PS75/041
	15:00	57°57.533'S	91°6.980'W	3.6	31	4440	4475	"	"	
	16:00	57°57.395'S	91°7.958'W	5.6	108.2	4505	4552	"	"	
	17:00	57°53.161'S	91°6.877'W	5.0	3.2	4066	4048	"	"	
	18:00	57°48.531'S	91°6.819'W	4.0	22.4	4032	4088	"	"	
	19:00	57°48.091'S	91°10.386'W	4.9	294	4558	4564	"	"	
	20:00	57°48.050'S	91°16.821'W	6.8	287	4772	4809	"	"	19:15 undeployment of steamer. 19:45 start steaming to core location A
	21:00	57°45.740'S	91°09.702'W	7.5	292	4825	4867	"	"	
	21:57	57°43.44'S	91°42.76'W	7.6	292	4916	4923	"	"	
	22:40	57°43.41'S	91°42.54'W	0.3	343	4889	4902	sg	"	Crossing Station PS75/042
05.12.08	02:03	57°43.232'S	91°42.528'W	0.4	230	4857	4811	equi	"	Start Station PS75/042 (KOL)
	03:00	57°42.372'S	91°52.752'W	7.4	282	4613	4628	"	"	End Station PS75/042
	03:37.5	57°42.008'S	91°58.705'W				4690	"	"	
	04:00	57°42.103'S	91°58.425'W	2.4	318	4620	4647	"	"	Crossing Station PS75/043
	07:17	57°41.924'S	91°58.847'W	3.1	299	4597	4613	sg	"	Start Station PS75/043
	08:06	57°39.830'S	92°5.315'W	10.5	318	4348	4385	quasi equi dist.	"	End station PS75/043
	09:00	57°31.054	92°16.554	10.2	317	4435	4820	"	"	
	10:00	57°23.660	92°23.249	9.8	296	4654	4338	"	"	
	11:00	57°19.734	92°44.930	9.3	292	4731	4736	"	"	
	12:00	57°15.641'S	93°1.506'W	9.4	298	4627	4894	"	"	
	13:00	57°11.780'S	93°15.575'W	8.9	300	4421	4538	"	"	
	14:00	57°7.246'S	93°38.250'W	9.4	301	5072	5064	equi	"	Runtime Error Parachute → after Computer installed
	14:24	57°4.718'S	93°39.263'W	8.7	301	5262	5275	equi	"	Reboot Operator PC
	15:00	57°2.878'S	93°45.422'W	9.8	297	5007	5043	"	"	System running again
	16:00	56°58.634'S	93°59.723'W	8.4	296.5	4723	4723	"	"	



10	Time UTC	Latitude S	Longitude W	Speed	Course	Depth PHT	Depth other	Transmission mode	System depth source	Remarks	
05.12.08	17:00	56° 54.137'S	94° 14.616'W	8.5	298.6	4738	4732				
	18:00	56° 48.269'S	94° 31.074'W	8.9	298.6	5271	5276	equi	other		
	19:00	56° 44.503'S	94° 46.928'W	10.0	295.0	4182.8	4189	"	"		
	20:00	56° 37.640'S	95° 03.208'W	10.0	293.8	5140.3	5141.0	"	"		
	21:00	56° 34.761'S	95° 19.382'W	10.6	302	4912	4924	"	"		
	22:00	56° 29.977'S	95° 35.169'W	10.2	298	4513	4531	- -	- -		
	23:00	56° 25.081'S	95° 51.362'W	9.8	297	4988	-	- -	- -	22:50 transmission mode set to manual because of problems of Hydrosweep	
	6.12.	00:00	56° 20.054'S	96° 7.967'W	11.5	298	4648	-	- -	manual	
		01:00	56° 14.991'S	96° 24.603'W	10.0	300	4743.46	4780	- -	other	00:05 Switching system depth source back to other
		02:00	56° 9.758'S	96° 39.892'W	10.6	303.2	4682.5	4686.0	- -	other	00:17 switched back to manual / 01:28 other sounding
02:37.5		56° 5.151'S	96° 46.835'W				4968	- -	other		
3:00		56° 3.367'S	96° 50.222'W	11.2	151	4965	4986	- -	- -	Passing Station PS75/044	
3:26		56° 5.241'S	96° 46.753'W	3.6	300	5672	4962	single	manual	switching to manual depth → problems with hydrosweep	
14:27		56° 5.134'S	96° 46.455'W	1.1	91	4879	4958		manual	Start Station PS75/044 (CTD, HUC, MUC, ROC)	
15:00		56° 3.595'S	96° 48.410'W	10.1	345	5134	4870	equi	manual	During Station Breakdown Parasitic (~10:25)	
16:00		55° 54.488'S	96° 57.364'W	10.4	330	4370	4302	- -	- -	End Station PS75/044	
17:00		55° 45.424'S	97° 03.333'W	10.6	330	4580	4567	- -	- -	15:11 other depth = DWS	
7.12.	18:00	55° 36.322'S	97° 15.234'W	10.7	330	4770	4777	- -	- -	77:22 System depth source → other (Hydrosweep)	
	19:00	55° 26.607'S	97° 24.728'W	10.8	331	4665	4687	- -	- -		
	20:00	55° 17.470'S	97° 33.624'W	11.6	331	4534	4549	- -	- -		
	21:00	55° 7.706'S	97° 43.030'W	11.2	334	4439	4658	- -	- -		
	22:00	54° 58.146'S	97° 52.272'W	11.1	334	4317	4623	- -	- -		
	23:00	54° 52.431'S	98° 0.218'W	10.5	268	4540	4560	- -	- -		
	0:00	54° 52.286'S	98° 22.561'W	9.3	269	1700	1750	- -	- -		
	00:23	54° 52.20'S	98° 29.76'W				539	- -	- -		
	01:06	54° 52.19'S	98° 29.65'W	1.3	195	540	545	- -	- -	Passing station PS75/045	
	01:48	54° 52.19'S	98° 29.721'W	1.5	36	536	537	single	- -	Start Station PS75/045 (MUC)	
02:00	54° 51.42'S	98° 29.14'W	2.0	246	536	536	equi	- -	End Station PS75/045		
03:00	54° 40.5'S	98° 42.158'W	10.4	248	1679	1664	- -	- -			
4:00	54° 5.9280'S	99° 17.91'W	10.4	250	570.9	521	- -	- -			
5:00	55° 6.550'S	99° 10.640'W	11.4	207	3306	3312	- -	- -			
6:00	55° 16.507'S	99° 19.200'W	11.6	208	4222	4258	- -	- -			
7:00	55° 13.834'S	99° 24.858'W	9.9	301	4491	4506	- -	- -			
8:00	55° 9.132'S	99° 58.012'W	10.5	293	4526	4542	- -	- -			



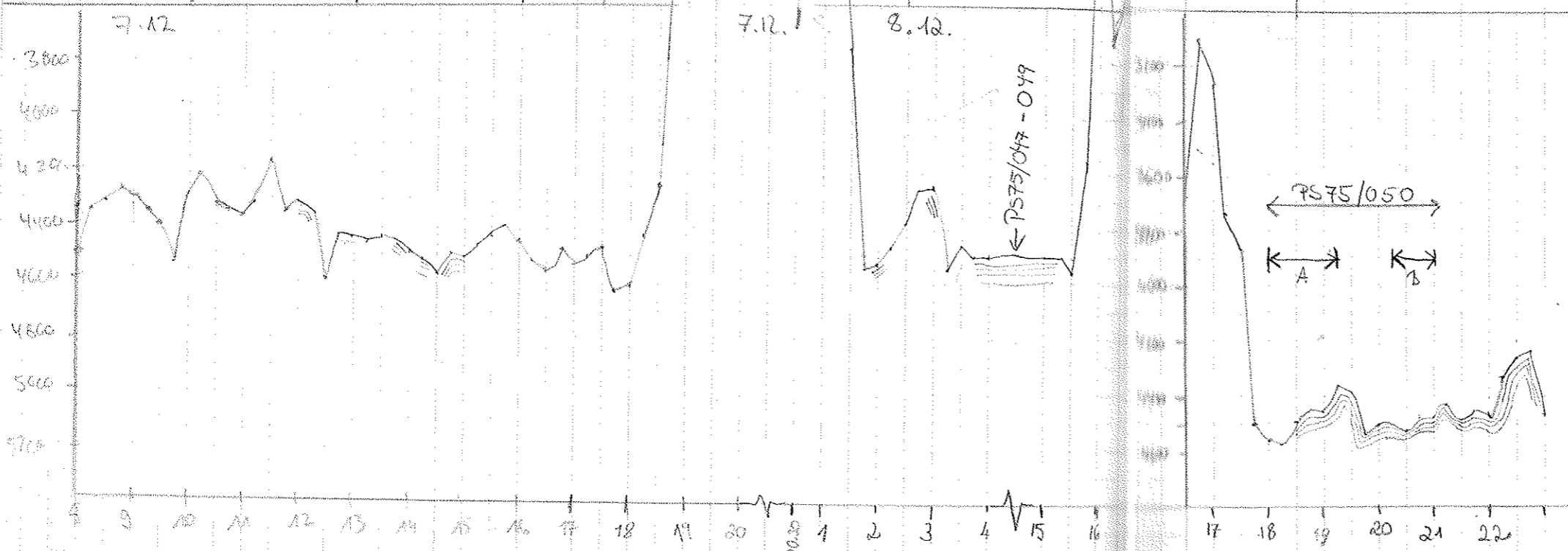
Date UTC	Time UTC	Latitude	Longitude	Speed	Course	Depth PHT	Depth other	Transmission mode	System depth source
7.12	09:00	055° 46.15'S	100° 7.354'W	10.4	294.5	4281.3	4297.0	equi	other
	10:00	055° 02.20'S	100° 23.032'W	9.9	291.2	4316.2	4336	"	"
	11:00	054° 56.03'S	100° 38.232'W	9.8	293.4	4286.8	4361	"	"
	12:00	54° 51.85'S	100° 53.757'W	10.1	299.4	4294	4318	"	"
	13:00	54° 47.760'S	101° 08.335'W	9.8	294	4315	4433	- -	- -
	14:00	54° 43.640'S	101° 23.167'W	9.8	293	4248	4503	- -	- -
	15:00	54° 39.760'S	101° 37.067'W	9.5	296	4462	4510	- -	- -
	16:00	54° 35.850'S	101° 54.261'W	8.6	296	4435	4451	- -	- -
	17:00	54° 32.040'S	102° 04.650'W	8.7	292	4538	4545	- -	- -
	18:00	54° 28.348'S	102° 14.937'W	9.1	295	4595	4606	- -	- -
	18:56.5	54° 52.20'S	102° 30.288'W						
	19:00	54° 24.86'S	102° 39.50'W	7.6	300	3036	3017	- -	- -
	20:00	54° 24.955'S	102° 50.08'W	0.5	123	2980	2990	single	- -
8.12.	00:48	54° 25.006'S	102° 30.041'W	3.0	276	2988	2998	equi	- -
	01:00	54° 24.515'S	102° 31.631'W	6.7	292	3154	3163	"	- -
	02:00	54° 20.813'S	102° 44.026'W	3.2	287	4503	4510	"	"
	03:00	54° 18.803'S	102° 54.835'W	11.7	122	4261	4286	"	"
	04:00	54° 13.642'S	102° 43.203'W	10.2	157	4477	4484	"	"
	3:50.5	54° 20.805'S	102° 44.751'W	10.5	24	4470	4493	"	"
	2:07	54° 20.77'S	102° 45.53'W	8.5	299	4510	4511	"	"
	4:28	54° 20.768'S	102° 44.688'W	1.1	294	4465	4498	single	- -
	15:05	54° 20.831'S	102° 44.900'W	2.3	260	4350	4480	quasi equid.	- -
	16:00	54° 23.013'S	102° 35.501'W	6.1	214	3076	3133	- -	- -
	17:00	54° 23.177'S	102° 05.881'W	2.3	268	3267	3277	- -	- -
	18:00	54° 22.576'S	102° 41.876'W	6.0	310	4546	4560	- -	- -
	19:00	54° 18.236'S	102° 48.102'W	5.3	320	4442	4448	- -	- -
	20:00	54° 17.113'S	102° 42.628'W	5.8	103	4480	4500	- -	- -
	20:13	54° 18.016'S	102° 42.638'W	6.4	203	4496	4493	- -	- -
	21:00	54° 21.805'S	102° 45.621'W	5.7	209	4450	4464	- -	- -
	21:20	54° 22.785'S	102° 47.305'W	5.2	235	4502	4504	- -	- -
	22:00	54° 23.052'S	102° 50.162'W	5.2	283	4451	4468	- -	- -

changed to single pulse for 10 minutes; passing station PS75/046

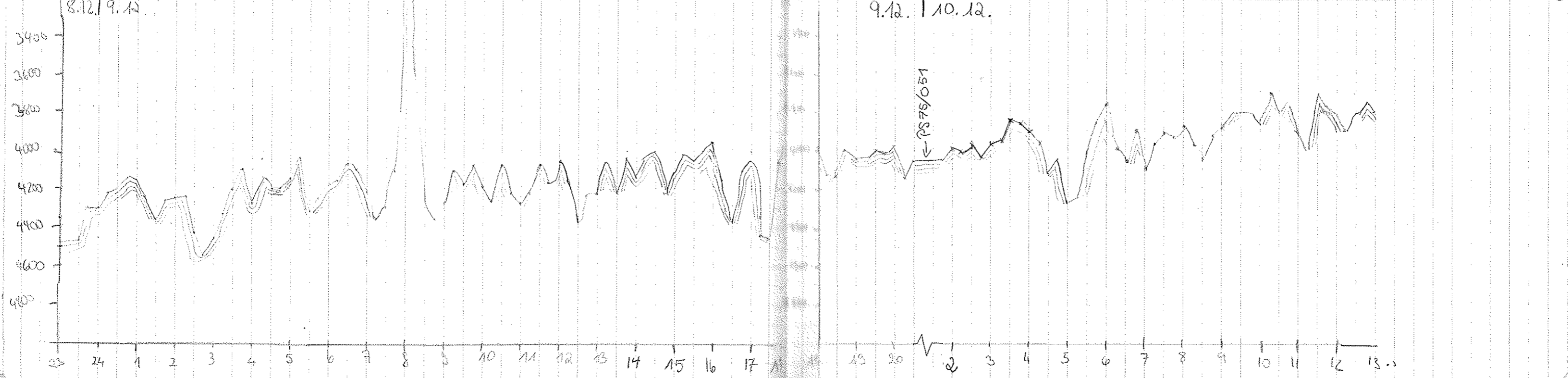
Start Station PS75/046
End Station PS75/046

Crossing Station PS 75/047 W 049 (KOL) (1) [10DP]
Crossing Station PS 75/048 (KOL) (2)
Start Station PS 75/047
End Station PS 75/49 (KOL) (same location as PS75/047)

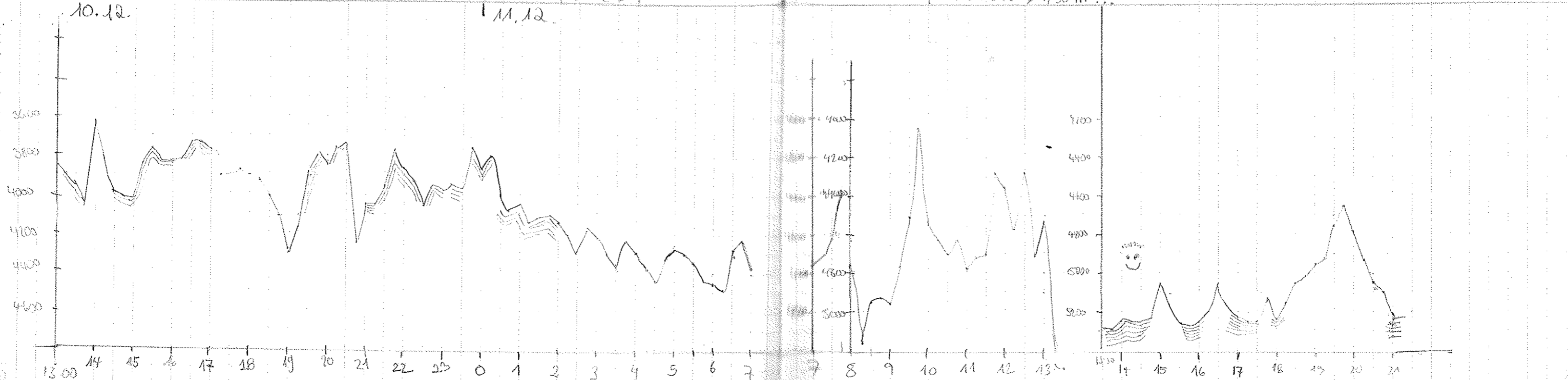
from 16:45 - 17:00 depth source manual (Problems Hydroweep) 17:00 deployment of streamer
Start seismic profile PS75/050 (A)
19:11 seismic profile (A) ends
Start seismic profile (B) PS75/050
Seismic Profile B - ENDE



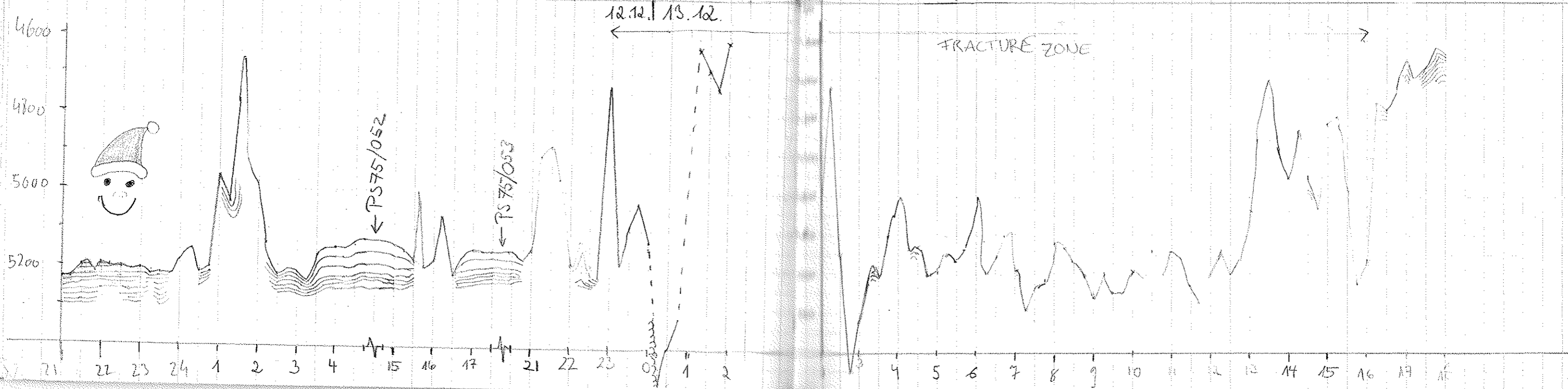
Date UTC	Time UTC	Latitude	Longitude	Speed	Course	Depth PHF	Depth after	Transmission mode	System depth source	Remarks	
8.12.	23:00	54° 19,480'S	103° 1,599'W	8,4	299	4504	4492	equi	other		
9.12.	0:00	54° 15,563'S	103° 14,245'W	7,6	303	4123	4252	"	"		
	1:00	54° 11,587'S	103° 26,985'W	9,0	291	4154	4180	- -	- -		
	2:00	54° 7,577'S	103° 38,847'W	8,4	231	4210	4252	"	"		
	3:00	54° 3,181'S	103° 53,881'W	8,7	233	4422	4465	"	"		
	4:00	54° 58,873'S	104° 7,723'W	9,0	296	4258	4288	- -	- -		
	5:00	53° 54,703'S	104° 20,342'W	8,5	237	4214	4235	"	"		
	6:00	53° 50,465'S	104° 34,491'W	8,5	204	4250	4288	- -	- -		
	7:00	53° 46,382'S	104° 47,427'W	8	300	4194	4210	- -	- -		
	8:00	53° 42,108'S	105° 1002'W	8,6	306	2970	3004	- -	- -		
	9:00	53° 38,189'S	105° 13,404'W	8,0	307	4225	4264	- -	- -		
	10:00	53° 34,369'S	105° 25,529'W	8,0	303	4129	4129	- -	- -		
	11:00	53° 30,021'S	105° 38,217'W	8,8	285,5	4268	4264	- -	- -		
	12:00	53° 25,843'S	105° 52,428'W	8,8	285,2	4163	4171	- -	- -		
	13:00	53° 21,446'S	106° 6,265'W	10	298	4230	4230	- -	- -		
	14:00	53° 16,724'S	106° 21,069'W	10	297	4107	4129	- -	- -		
	15:00	53° 12,378'S	106° 34,698'W	9,3	294	4089	4107	- -	- -		
	16:00	53° 7,761'S	106° 49,179'W	10,3	298	3949	3968	- -	- -		
	17:00	53° 2,978'S	107° 4,124'W	9,9	295	4022	4046	- -	- -		
	18:00	52° 58,328'S	107° 18,509'W	9,5	299	3878	3985	- -	- -		
	19:00	52° 53,580'S	107° 33,48'W	10,0	298	4037	4069	- -	- -		
20:00	52° 48,772'S	107° 48,84'W	10,1	292	3960	3974	- -	- -			
19:59,5	52° 48,750'S	107° 48,320'W									
20:27	52° 48,722'S	107° 48,076'W	1,7	276	3966	3978	Single	- -	Crossing Station PS75/051		
10.12	01:45	52° 44,734'S	107° 48,280'W			3962	3971	equi	- -	Start Station PS75/051 (KOL, MUC)	
	02:00	52° 40,781'S	107° 48,392'W	4,9	219	3950	3978	- -	- -	and station PS75/051	
	03:00	52° 37,138'S	107° 56,215'W	11,3	210	3948	3970	- -	- -		
	04:00	52° 06,741'S	108° 05,138'W	11,0	210,2	3986	3990	- -	- -		
	5:00	52° 16,646'S	108° 14,407'W	11	209	4254	4270	- -	- -		
	6:00	52° 26,494'S	108° 23,600'W	11,5	211	3762	3769	- -	- -		
	7:00	52° 36,451'S	108° 33,916'W	11,6	209	4060	4076	- -	- -		
	8:00	52° 46,437'S	108° 43,541'W	11,2	211	4060	4076	- -	- -		
	9:00	52° 56,467'S	108° 51,377'W	10,9	213	4167	3862	- -	- -		
	3000	10:00	54° 5,710'S	109° 0,016'W	10,5	212	3776	3775	- -	- -	
	11:00	54° 15,250'S	109° 10,300'W	10,7	212	4062	4074	- -	- -		
	12:00	54° 24,166'S	109° 18,730'W	10,8	211,9	3986	3986	- -	- -		



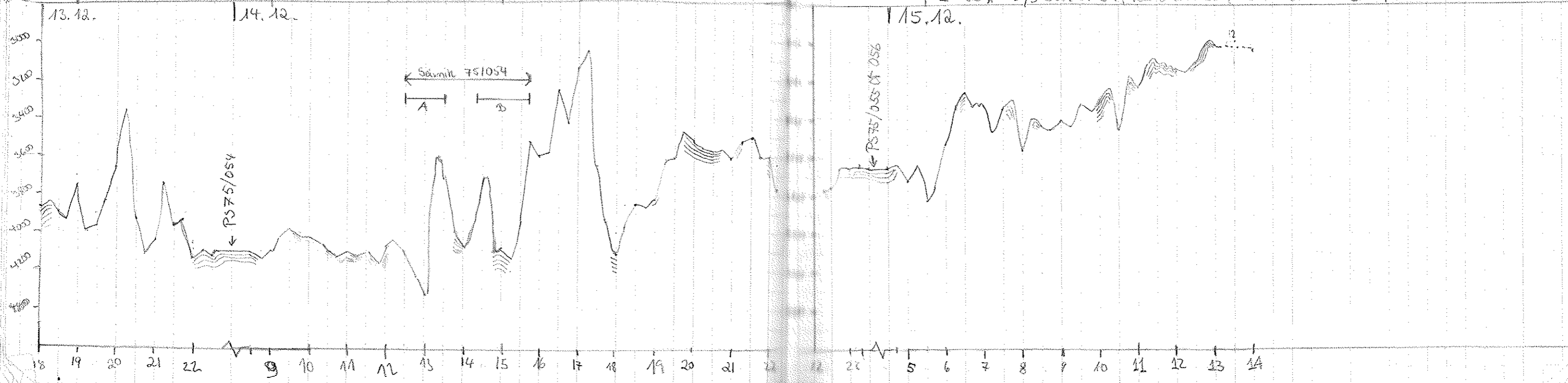
Date 16	Time UTC	lat/lon	long/lon	Speed	Course	Depth P/H	Depth other	Transmission mode	System depth source	Remarks
10.12.	13:00	054° 33.600'S	109° 27.810'W	10.9	209.4	3822, 30	3831	- -	- -	
	14:00	54° 44.169'S	109° 25.981'W	11.1	206	3622	3617	- -	- -	
	15:00	54° 52.228'S	109° 26.380'W	11.6	218	3592	4020	- -	- -	15:11 → shortly switched to manual depth source (Hydrosweep probe)
	16:00	55° 0.265'S	109° 47.657'W	11.2	232	3818	3842	- -	- -	
	17:00	55° 8.445'S	110° 1.815'W	10.9	209	3752	3756	- -	- -	
	18:00	55° 18.252'S	110° 11.470'W	11.5	210	3911	3919			Very deep sediment layers (> 75m)
	19:00	55° 28.195'S	110° 21.305'W	11.5	210	4268	4274			
	20:00	55° 37.338'S	110° 30.386'W	11.3	207	3833	3848			
	20:46	55° 44.871'S	110° 37.863'W	10.9	210	4278	?		manual	problems with Hydrosweep: depth set manually accord. PODAS
	21:00	55° 46.688'S	110° 39.708'W	11.4	205	3843	4039 man			depth PODAS changing strongly between 3800-4450
	21:20	55° 50.326'S	110° 43.538'W	11.7	213	3808	4010	- -	other	changed system depth source back to (other)
	22:00	55° 56.376'S	110° 49.379'W	10.6	206	3881	3887	- -	- -	
23:00	56° 5.698'S	110° 58.748'W	10.5	210	3972	3988	- -	- -		
11.12.	0:00	56° 16.013'S	111° 9.165'W	10.5	207	3844	3958	- -	- -	
	1:00	56° 23.621'S	111° 16.832'W	10.4	210	4076	4061	- -	- -	
	2:00	56° 32.478'S	111° 25.884'W	10.2	213	4019	4062	- -	- -	
	3:00	56° 41.413'S	111° 35.002'W	10.2	209	4206	4224	- -	- -	
	4:00	56° 50.478'S	111° 44.297'W	10.1	205.2	4296	4310	- -	- -	
	5:00	56° 59.365'S	111° 53.431'W	10.2	212.2	4291	4302	- -	- -	
	6:00	57° 8.450'S	112° 2.822'W	10.8	209.7	4448	4469	- -	- -	
	7:00	57° 18.133'S	112° 12.897'W	11.1	208.5	4376	4386	- -	- -	
	8:00	57° 27.773'S	112° 22.902'W	11.5	210.9	4737	4733	- -	- -	
	9:00	57° 37.747'S	112° 33.394'W	11.4	209.5	5123	5140	- -	- -	
	10:00	57° 47.777'S	112° 43.908'W	11.7	207.2	4309	4515	- -	- -	
	11:00	57° 57.578'S	112° 54.237'W	11.2	209	4744	4775	- -	- -	
	12:00	58° 07.032'S	113° 04.269'W	10.7	206.9	4315	4351	- -	- -	
	13:00	58° 16.436'S	113° 14.314'W	10.9	206	4507	4521	- -	- -	13:30 sediments > 180m!!!
	14:00	58° 26.171'S	113° 24.745'W	11.6	210	5242	5262	- -	- -	
	15:00	58° 36.120'S	113° 35.465'W	11.7	205	5054	5066	- -	- -	
	16:00	58° 46.276'S	113° 46.402'W	11.5	210	5326	5245	- -	- -	
	16:20	58° 49.775'S	113° 50.200'W	11.6	208	5162	5198	- -	- -	receiving no positioning-data → MINS-problem (7min)
17:00	58° 56.367'S	113° 57.358'W	11.6	211	5176	5220	- -	- -		
18:00	59° 6.846'S	114° 8.846'W	11.3	211	5208	5227				
19:00	59° 17.603'S	114° 20.611'W	11.3	208	4914	4945				
20:00	59° 27.552'S	114° 31.581'W	11.6	212	4775	4791			20:25 no SLP-Depth	
21:00	59° 37.765'S	114° 41.882'W	11.3	208	5208	5225			Sediment > 150m!!!	



Date	Time UTC	Latitude	Longitude	Speed	Course	Depth DHT	Depth other	Transmission mode	System depth source	Remarks
11.12.09	22:00	059° 48,190'S	114° 54,540'W	11.8	206.5	5196.7	5218.0	-	-	
	23:00	59° 58,450'S	115° 5,984'W	12.1	209	5204	5226	-	-	
12.12.	0:00	60° 8,655'S	115° 17,508'W	11.7	213	5160	5174	-	-	
	1:00	60° 19,415'S	115° 27,072'W	12.2	205	4944	4960	-	-	1:40-1:42 loss of SLT - depth due to noise
	2:00	60° 30,245'S	115° 35,952'W	11.8	202	4973	4994	-	-	
	3:00	60° 41,039'S	115° 44,770'W	11.6	204	5191	5207	-	-	3:03 Crossing WP1, 3:39 Crossing WP2, 3:55 Crossing WP3
	4:00	60° 47,708'S	115° 59,890'W	10.8	196	5111	5152	-	-	3:55-4:10 pycnoc, 4:16 Crossing BEL-10
	3:51	60° 46,14'S	115° 58,73'W	11.3	190	5117	5146	-	-	Crossing Station PS75/052
	4:48	60° 45,978'S	115° 58,753'W	0.6	95	5125	5149	single equi	-	Start Station PS75/052 (CTD, MN, KOL)
	14:52	60° 46,013'S	115° 59,244'W	8.2	333	5121	5145	-	-	End Station PS75/052
	15:00	60° 44,589'S	116° 1,187'W	10.7	328	5138	5161	-	-	15:50-16:30 waiting for seismic to start → canceled
	16:00	60° 40,220'S	116° 9,901'W	10	162	5177	5179	-	-	
	17:00	60° 41,390'S	116° 5,418'W	9.3	110	5119	5148	-	-	
	17:36	60° 45,970'S	115° 58,579'W	1.2	211	5270	5243	single equi	-	Start Station PS75/053 (MUC) [same location as PS75/052]
	20:32	60° 41,795'S	115° 53,831'W	12.7	27	5221	5158	-	-	End Station PS75/053
	21:00	60° 37,664'S	115° 50,769'W	10.6	304	5132.9	5156	-	-	
	22:00	60° 29,431'S	116° 0,341'W	11.8	4.2	5026	5194	-	-	
	23:00	60° 17,640'S	115° 57,708'W	11.7	6.5	4680	4734	-	-	
13.12.	0:00	60° 5,888'S	115° 55,136'W	11.6	8.7	5199	5125	-	-	23:58-00:04 loss of SLT - depth due to steep slope
	1:00	59° 54,366'S	115° 54,619'W	11.0	6.0	4757	4857	-	-	
	2:00	59° 42,926'S	115° 50,131'W	11.7	6.0	4586	4619	-	-	
	3:00	59° 34,069'S	115° 47,543'W	12.2	9.3	5243	5246	-	-	
	4:00	59° 19,903'S	115° 44,943'W	11.7	4.9	4592	4638	-	-	
	5:00	59° 6,645'S	115° 42,320'W	12.2	13.3	5033	4976	-	-	
	6:00	58° 54,770'S	115° 39,684'W	12.2	9.4	4630	4603	-	-	
	7:00	58° 43,087'S	115° 37,315'W	11.4	6.1	4960	4970	-	-	
	8:00	58° 31,070'S	115° 34,765'W	12.1	7.2	4829	4875	-	-	
	9:00	58° 19,824'S	115° 32,420'W	12.2	12.2	4910	5007	-	-	
	10:00	58° 8,403'S	115° 30,070'W	11.4	7.2	4852	4826	-	-	
	11:00	57° 57,434'S	115° 27,781'W	10.8	4.2	4810	4767	-	-	
	12:00	57° 46,907'S	115° 25,675'W	9.8	2.9	5010	5044	-	-	
	13:00	57° 36,594'S	115° 23,515'W	10.7	12.2	4487	4659	-	-	
	14:00	57° 26,269'S	115° 21,417'W	10.3	2.5	4486	4458	-	-	
	15:00	57° 15,938'S	115° 19,309'W	10.2	1.5	4736	4762	-	-	
	16:00	57° 05,240'S	115° 17,184'W	10.5	7.3	4910	4957	-	-	
	17:00	56° 54,588'S	115° 15,984'W	10.5	3.6	3807	3895	-	-	



Date	Time UTC	Latitude	Longitude	Speed	Course	Depth P11F	Depth other	Transmission mode	system depth source	Remarks	
13.12.	18:00	56° 42, 019' S	115° 12, 538' W	11,6	10	3887	3883	equi	other		
	19:00	56° 50, 700' S	115° 10, 242' W	12,2	6,0	3737	3758	- -	- -	19:34 shifting 1nm to DE west	
	20:00	56° 19, 202' S	115° 10, 010' W	11,8	6,2	3647	3668	- -	- -		
	21:00	56° 7, 041' S	115° 7, 711' W	11,8	8,7	4088,6	4152,4	"	"	21.09 Urschwechel auf Punkt EPR 5A	
	22:00	56° 5, 752' S	115° 7, 845' W	10,3	199,4	3864	4137	"	"	21.19 Erreichen EPR-5A (stehen)	
	20:51	56° 9, 12' S	115° 7, 98' W				4109	"	"	Crossing Station PS 75/054	
	22:40	56° 8, 982' S	115° 7, 200' W	1,1	120	4092,8	4108	"	"	Start Station PS 75/054 (KOL, CTD, MN, MVC)	
	14.12.	8:30	56° 9, 093' S	115° 7, 923' W	2,7	257	4087	4108	- -	- -	End Station PS 75/054
		9:00	56° 5, 735' S	115° 2, 253' W	9,7	44,3	4092	4110	"	"	
		10:00	56° 4, 786' S	115° 1, 34' W	5,3	197	4055	4084	"	"	
11:00		56° 8, 525' S	115° 7, 02' W	5,0	225	4093	4113	"	"		
12:00		56° 12, 071' S	115° 13, 107' W	4,8	219,1	4159	4068	"	"	12:02 - 13:36 Seismik Profil (A)	
13:00		56° 11, 855' S	115° 7, 391' W	5,0	95,2	4739	4281	"	"	} PS 75/054	
14:00		56° 12, 541' S	115° 1, 33' W	5,6	265,2	4090	4042	- -	- -		14:19 - 15:48 Seismik Profil (B)
15:00		56° 9, 380' S	115° 2, 451' W	5,2	311,2	4061	4081	- -	- -		
16:00		56° 5, 882' S	115° 14, 181' W	4,2	248	3487	3497	- -	- -		
17:00		56° 4, 412' S	115° 15, 462' W	12,1	25,4	3117	3134	- -	- -		
18:00	55° 53, 340' S	115° 9, 930' W	11,9	16,9	4086	4106	- -	- -			
19:00	55° 42, 511' S	115° 4, 454' W	11,0	19,6	3692	3715	- -	- -			
20:00	55° 31, 806' S	114° 59, 151' W	11,4	18,6	3483	3509	- -	- -			
21:00	55° 21, 093' S	114° 53, 826' W	10,9	14,6	3630	3555	- -	- -			
22:00	55° 10, 470' S	114° 48, 566' W	10,2	23,6	3589	3593	- -	- -			
22:08	55° 9, 11' S	114° 47, 89' W				3622	- -	- -	Crossing Station PS 75/055 (MVC)		
22:55,5	55° 9, 74' S	114° 47, 291' W				3618	- -	- -	Crossing Station PS 75/056 (SL)		
23:16	55° 8, 974' S	114° 47, 742' W	2,7	226	3623	3646	Single	- -	Start Station PS 75/055 (Ende 1:30)		
15.12.	1:44	55° 9, 830' S	114° 47, 064' W	5,2	186	3615	3630	Equi	- -	Start Station PS 75/056 (SL)	
	4:46	55° 9, 078' S	114° 49, 107' W	10,6	304	3665	3711	- -	- -	End Station PS 75/056	
	5:00	55° 9, 078' S	114° 49, 107' W	10,6	304	3665	3711	- -	- -		
	6:00	55° 3, 254' S	115° 3, 958' W	9,7	320	3670	3509	- -	- -		
	7:00	54° 57, 645' S	115° 16, 501' W	9,6	302	3299	3319	- -	- -		
	8:00	54° 52, 063' S	115° 32, 804' W	10,7	303	3561	3572	- -	- -		
	9:00	54° 46, 381' S	115° 47, 229' W	9,8	305	3403	3402	- -	- -		
	10:00	54° 40, 860' S	116° 1, 499' W	11,1	307	3298	3302	- -	- -		
	11:00	54° 35, 146' S	116° 16, 132' W	10,3	300	3231	3234	- -	- -		
	12:00	54° 29, 754' S	116° 29, 860' W	9,2	316	3147	3150	- -	- -		
13:00	54° 24, 378' S	116° 43, 501' W	10,5	310	3008	3021	- -	- -			
13:04									13:04 System error, no data acquisition		

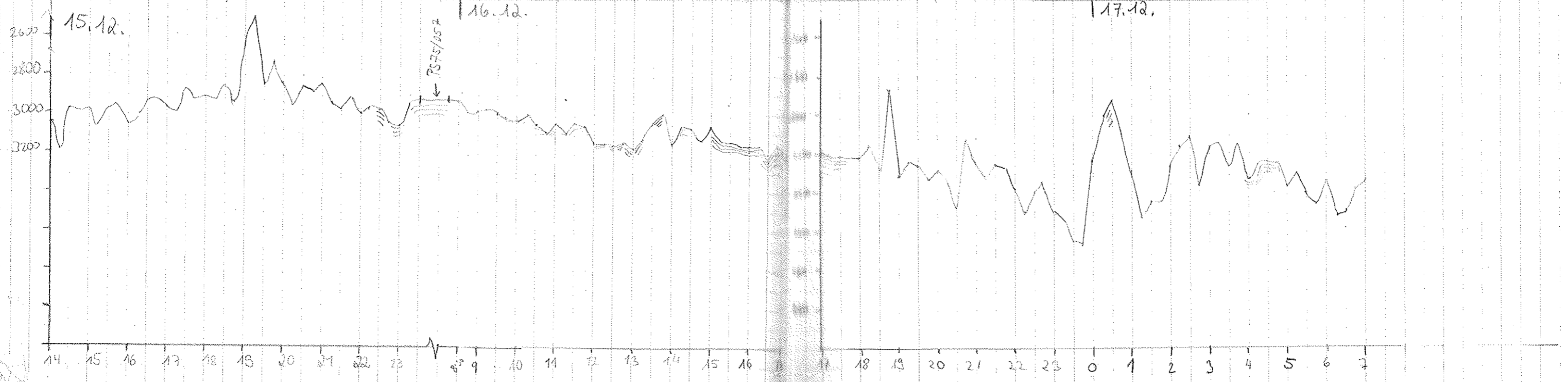


15.12

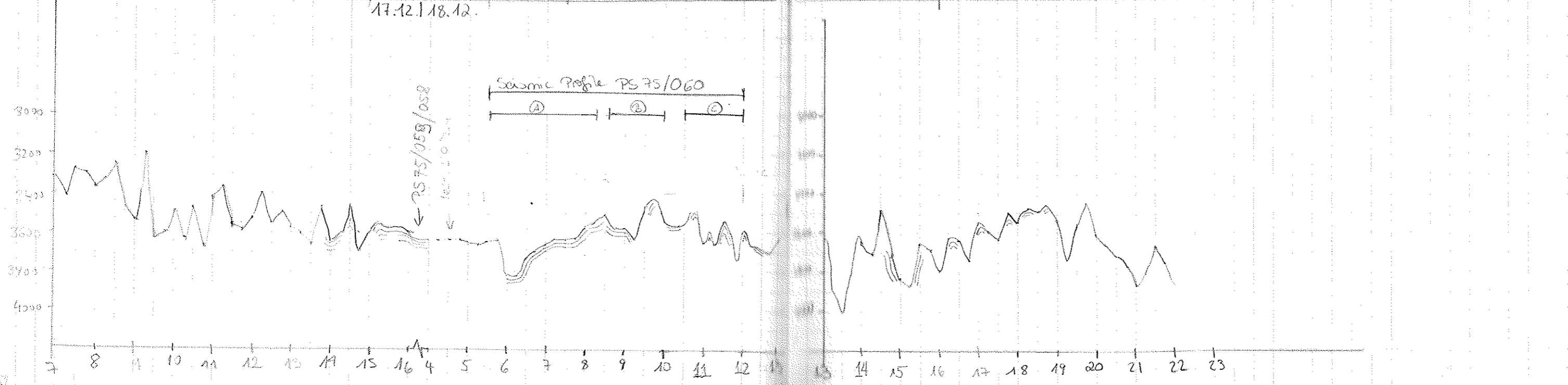
Time UTC	Latitude	Longitude	Speed	Course	Depth PHF	Depth other	Transmission mode	System depth source
14:00	54° 18.850'S	116° 57.492'W	9.8	300.5	3069	3083	equi	other
15:00	54° 14.077'S	117° 9.500'W	8.8	301	3012	3019	"	"
16:00	54° 8.661'S	117° 23.218'W	10.3	308	3030.9	3030	"	"
17:00	54° 3.122'S	117° 37.221'W	8.9	293	2933	2939	"	"
18:00	53° 58.779'S	117° 48.149'W	10.0	301	2914.3	2921	"	"
19:00	53° 53.332'S	118° 1.792'W	8.4	308	2592	2618	- -	- -
20:00	53° 48.106'S	118° 14.855'W	9.4	306	2808	2813	- -	- -
21:00	53° 42.842'S	118° 27.987'W	10.2	312	2844	2846	- -	- -
22:00	53° 37.602'S	118° 44.031'W	9.5	298	2989	3002	- -	- -
23:00	53° 32.511'S	118° 53.759'W	8.6	309	3041	3063	- -	- -
23:06.5	53° 31.984'S	118° 55.014'W				2916	- -	- -
23:51	53° 32.152'S	118° 57.708'W	2.8	35	2901	2911	Single Equi	- -
16.12. 8:15	53° 31.206'S	118° 54.820'W	2.5	12.1	2915	2655	Equi	manual
9:00	53° 32.643'S	119° 1.335'W	7.2	260.3	2978	2983	- -	other
10:00	53° 33.619'S	119° 12.852'W	5.9	260.	3005	3021	- -	"
11:00	53° 34.732'S	119° 23.374'W	7.1	247	3047	3064	"	"
12:00	53° 36.440'S	119° 34.471'W	5.3	261	3121	3142	"	"
13:00	53° 37.261'S	119° 45.123'W	6.2	260	3166	3182	"	"
14:00	53° 38.211'S	119° 54.350'W	7.2	261	3129	3144	"	- -
15:00	53° 38.506'S	120° 3.767'W	6.7	262	3056	3078	- -	- -
16:00	53° 40.050'S	120° 14.525'W	6.5	253	3151	3162	- -	- -
17:00	53° 41.478'S	120° 25.323'W	7.2	260	3198	3197	- -	- -
18:00	53° 42.653'S	120° 36.622'W	6.5	261	3209	3218	- -	- -
19:00	53° 43.880'S	120° 48.621'W	6.3	259	3210	3216	- -	- -
20:00	53° 45.189'S	121° 01.860	7.5	257	3276	3290	- -	- -
21:00	53° 46.574'S	121° 13.992	8.2	258	3229	3255	- -	- -
22:00	53° 47.840'S	121° 26.102	8.0	257	3280	3293	- -	- -
23:00	53° 49.224'S	121° 38.317	6.4	266	3504	3577	- -	- -
17.12. 0:00	53° 50.643'S	121° 52.806'W	8.7	263	3199	3231	- -	- -
1:00	53° 52.139'S	122° 7.314'W	7.6	260	3291	3299	- -	- -
2:00	53° 53.648'S	122° 21.613'W	8.1	265	3271	3288	- -	- -
3:00	53° 55.185'S	122° 36.321'W	9.5	261	3155	3172	- -	- -
4:00	53° 56.791'S	122° 51.752'W	9.3	265	3316	3323	- -	- -
5:00	53° 58.394'S	123° 6.681'W	9.6	256	3381	3390	- -	- -
6:00	53° 59.972'S	123° 22.117'W	10.2	260	3291	3330	- -	- -
7:00	54° 1.571'S	123° 37.660'W	9.5	261	3215	3230	- -	- -

Restart Hydromag control
System running again (Hardware problem due to ship movement)

Crossing station PS75/057 (CTD, HN, KOL, NUC)
Start station PS75/057
7:06-8:30 System depth source = manual



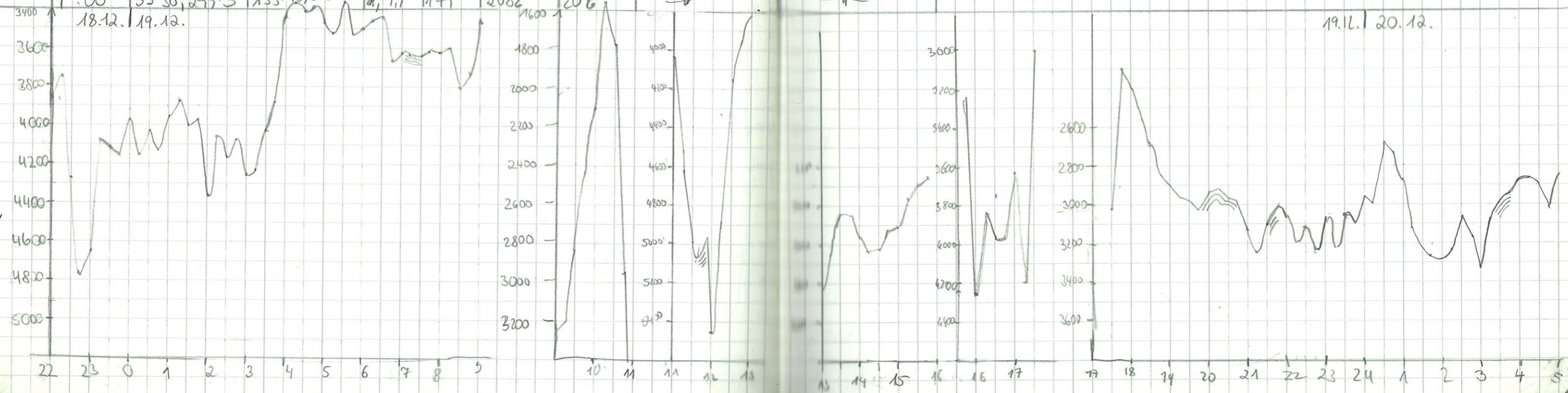
Date	Time UTC	Latitude	Longitude	Speed	Course	Depth MFT	Depth OPR	Transmission mode	System depth source	Remarks
17.12	8:00	54° 3, 215'S	123° 53, 317'W	9.1	264	3351	3358	—	—	
	9:00	54° 4, 812'S	124° 8, 666'W	10	260	3526	3537	—	—	
	10:00	54° 6, 408'S	124° 24, 000'W	9.1	262	3509	3496	—	—	
	11:00	54° 7, 925'S	124° 38, 622'W	8.1	257	3340	3330	—	—	
	12:00	54° 9, 411'S	124° 52, 313'W	8.7	263	3523	3534	—	—	
	13:00	54° 10, 892'S	125° 4, 154'W	8	260	3572	3580	—	—	
	14:00	54° 12, 440'S	125° 28, 121'W	8.7	260.7	3636	3644	—	—	
	15:00	54° 13, 951'S	125° 37, 710'W	6.7	256.5	3621	3638	—	—	15.11 Schiff gerundet
	16:00	54° 12, 891'S	125° 24, 858'W	8.1	268.1	3636.78	3649	—	—	
	14:17	54° 12, 891'S	125° 26, 141'W				3624	—	—	Crossing Station PS75/058 (CTD, KOL)
	16:09	54° 12, 822'S	125° 26, 189'W	1.0	308	3614	3621	Single	—	Start Station PS75/058
	17:17	54° 12, 920'S	125° 26, 141'W	0.4	165	3614	3627	—	—	Crash Parachute (after wrong waiting time from 30s to 0s)
	14:11.5	54° 12, 791'S	125° 25, 521'W				3636	—	—	Crossing Station PS75/059
	02:25	54° 12, 754'S	125° 25, 604'W					—	—	Start Station PS75/059 (HUC, KOL)
18.12	4:10	54° 12, 408'S	125° 24, 582'W	0.9	313	3624	3641	Egi	—	End Station PS75/059
	5:00	54° 8, 510'S	125° 21, 228'W	10.5	34.3	3600	3640	—	—	
	6:28	54° 4, 651'S	125° 12, 088'W	5.7	213	3650	3682	—	—	ship turned, start location for seismic survey
	6:00	54° 5, 941'S	125° 20, 735'W	5.1	231	3817	3810	—	—	
	7:00	54° 10, 566'S	125° 24, 272'W	5.2	201	3659	3672	—	—	6:37 - 8:13 Profile (A) 8:38 - 9:53 Profile (B) 10:33 - 11:59 Profile (C)
	8:00	54° 15, 462'S	125° 27, 138'W	4.1	206	3572	3593	—	—	
	9:00	54° 15, 881'S	125° 25, 288'W	5.1	67	3581	3595	—	—	
	10:00	54° 13, 958'S	125° 18, 403'W	4.8	62	3536	3547	—	—	10:00 Ship turned
	11:00	54° 13, 302'S	125° 22, 951'W	5.8	310	3625	3645	—	—	
	12:00	54° 11, 348'S	125° 32, 678'W	6.7	280	3606	3607	—	—	ca. 12:00 end seismic
	13:00	54° 12, 088'S	125° 40, 326'W	6.2	260	3613	3634	—	—	
	14:00	54° 13, 118'S	125° 52, 576'W	7.1	250	36A1	3661	—	—	
	15:00	54° 14, 180'S	126° 5, 108'W	7.8	261	3241.6	3831	—	—	
	16:00	54° 15, 257'S	126° 19, 189'W	8.1	260	3785	3799	—	—	
	17:00	54° 16, 308'S	126° 32, 085'W	8.9	261	3546	3573	—	—	
	18:00	54° 17, 442'S	126° 46, 192'W	7.2	264	3539	3554	—	—	
	19:00	54° 18, 494'S	126° 59, 536'W	8.1	262	3557	3567	—	—	
	20:00	54° 19, 631'S	127° 13, 786'W	8.8	266	3610	3614	—	—	
	21:00	54° 20, 755'S	127° 27, 637'W	8.8	262	3875	3876	—	—	



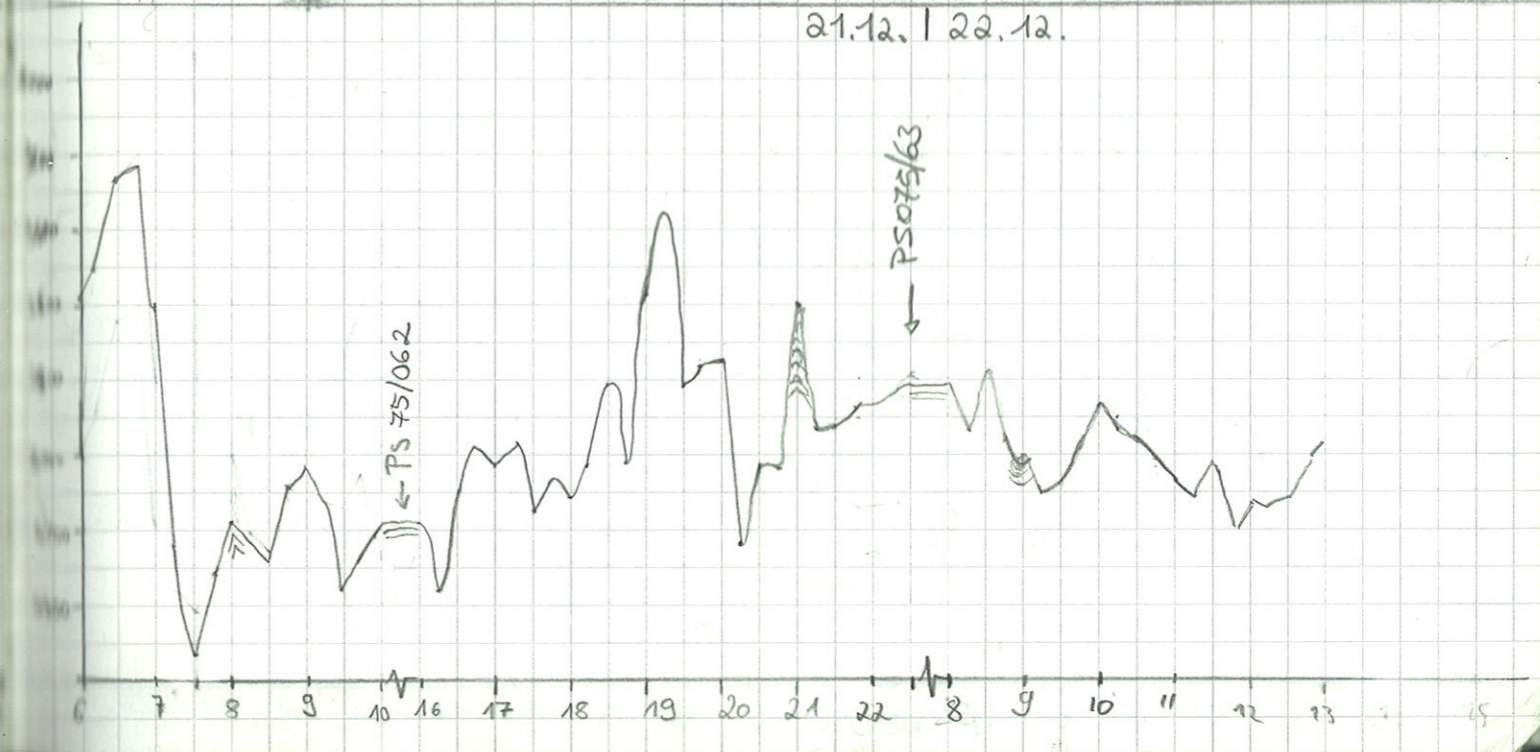
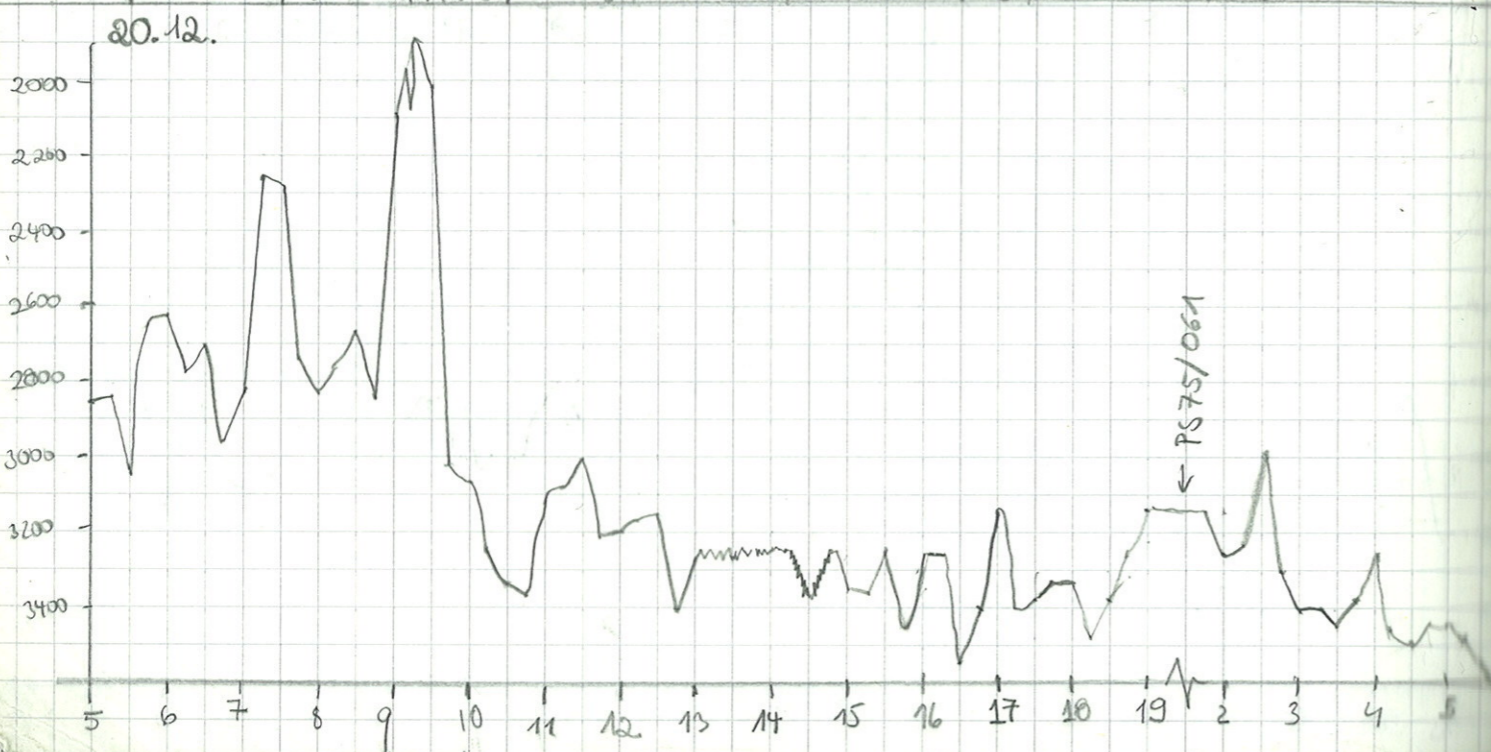
Date	Time UTC	Latitude	Longitude	Speed	Course	Depth PFT	Depth other	Transmission mode	System depth source
18.12.	22:00	54° 21, 927'S	127° 42, 410'W	8,2	256	3837	3851	Equi	orne
	23:00	54° 23, 167'S	127° 57, 877'W	8,5	261	4603	4624	- -	- -
19.12.	0:00	54° 24, 274'S	128° 11, 656'W	8,3	265	3374	3388	"	"
	1:00	54° 25, 478'S	128° 26, 635'W	8,1	270	3351	3378	"	"
	2:00	54° 26, 568'S	128° 40, 241'W	8,2	267,6	4337	4349	"	"
	3:00	54° 27, 751'S	128° 55, 196'W	8,5	265	4210	4225	"	"
	4:00	54° 28, 876'S	129° 9, 170'W	8,5	261	3380	3408	"	"
	5:00	54° 29, 984'S	129° 23, 360'W	9,4	261	3417	3463	"	"
	6:00	54° 31, 213'S	129° 39, 099'W	8,8	263	3494	3495	- -	- -
	7:00	54° 32, 482'S	129° 54, 366'W	9,0	261	3585	3625	- -	- -
	8:00	54° 33, 701'S	130° 9, 695'W	9,1	260	3602	3619	- -	- -
	9:00	54° 34, 872'S	130° 24, 416'W	8,8	264	3458	3440	- -	- -
	10:00	54° 35, 980'S	130° 38, 462'W	8,2	255	2088	2101	- -	- -
	11:00	54° 37, 086'S	130° 52, 066'W	8,5	261	4030	4024	- -	- -
	12:00	54° 38, 204'S	131° 6, 173'W	8,1	263	5205	5453	- -	- -
	13:00	54° 39, 271'S	131° 19, 748'W	7,9	260	3756	3809	- -	- -
	14:00	54° 40, 353'S	131° 33, 260'W	7,7	263	3539	3558	- -	- -
	15:00	54° 41, 453'S	131° 47, 021'W	8,4	265	3489	3501	- -	- -
	16:00	54° 42, 522'S	132° 0, 703'W	8,0	259	4239	4251	- -	- -
	17:00	54° 43, 569'S	132° 13, 964'W	9,2	261	3624	3611	- -	- -
	18:00	54° 44, 767'S	132° 29, 190'W	9,6	258	2409	2412	- -	- -
	19:00	54° 46, 000'S	132° 44, 642'W	9,0	260	2340	2404	- -	- -
	20:00	54° 47, 214'S	132° 59, 880'W	9,1	264	2369	2355	- -	- -
	21:00	54° 48, 428'S	133° 14, 950'W	8,9	262	2578	3151	- -	- -
	22:00	54° 49, 619'S	133° 30, 084'W	8,8	261,4	3061,83	3076	- -	- -
	23:00	54° 50, 872'S	133° 46, 074'W	8,8	263,4	3145,67	3144	- -	- -
20.12.	0:00	54° 52, 100'S	134° 19, 18'W	9,2	259	2954	2968	- -	- -
	1:00	54° 53, 390'S	134° 37, 895'W	9,4	259	2887	2888	- -	- -
	2:00	54° 54, 650'S	134° 53, 755'W	8,7	259	3280	3289	- -	- -
	3:00	54° 55, 897'S	135° 04, 539'W	9,3	260	3316	3328	- -	- -
	4:00	54° 57, 121'S	135° 15, 261'W	10,0	260	2881	2890	- -	- -
	5:00	54° 58, 441'S	135° 21, 885'W	10,5	263	2849	2866	- -	- -
	6:00	54° 59, 700'S	135° 37, 986'W	9,8	257	2601	2623	- -	- -
	7:00	55° 0, 389'S	135° 47, 170'W	9,8	193	2803	2827	- -	- -
	8:00	55° 0, 966'S	135° 42, 741'W	10,6	174	2812	2823	- -	- -
	9:00	55° 10, 299'S	135° 42, 570'W	8,99	179	2082	2086	- -	- -

} wrong depth sensor window settings ?

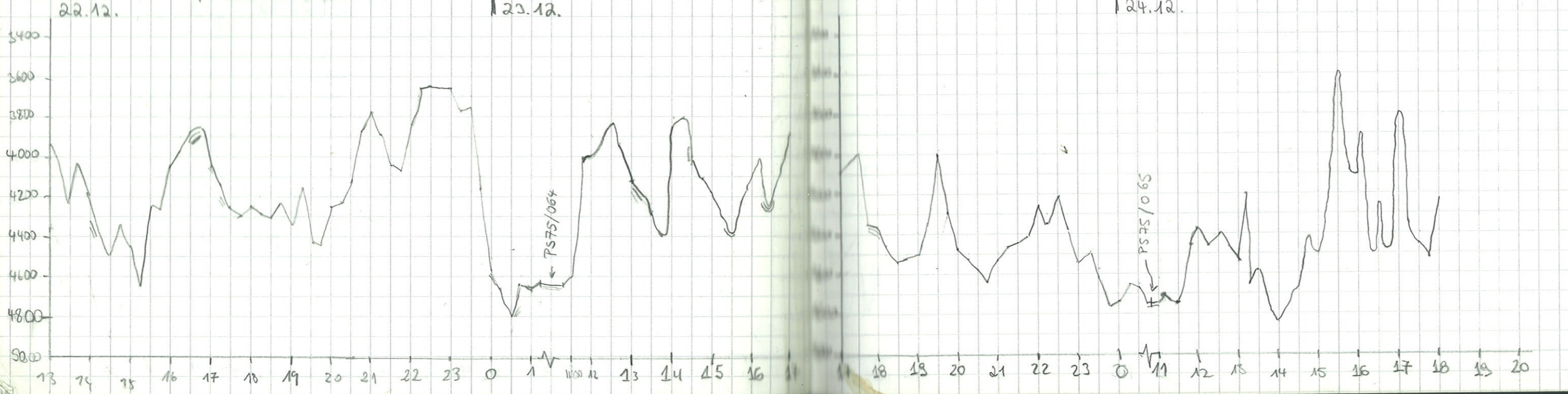
6:02 Reaching Waypoint UFE-1



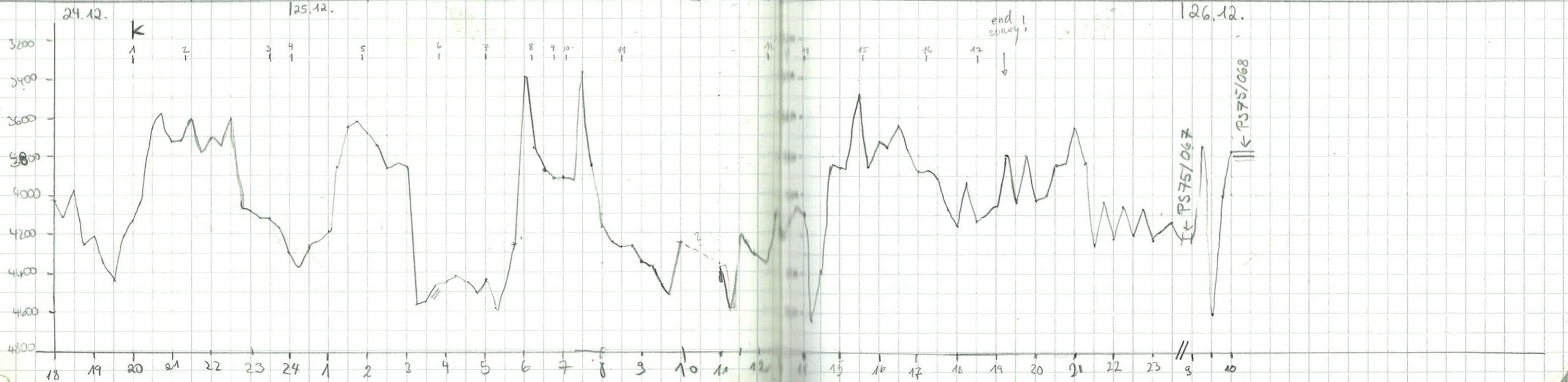
Date	Time UTC	Latitude	Longitude	Speed	Course	Depth DIF	Depth other	Transmission mode	System depth source	Remarks
20.12.	10:00	55°40.62'S	135°41.179'W	10.4	167	3058	3072	Equi	Other	
	11:00	55°50.22'S	135°37.423'W	10.3	170	3115	3106	-H-	-H-	
	12:00	56°1.552'S	135°33.071'W	11.2	168	3157	3203	-H-	-H-	
	13:00	56°12.594'S	135°28.745'W	11.1	169	3235	3270	-H-	-H-	
	14:00	56°23.620'S	135°24.412'W	11.0	174	3234	3250	"	"	
	15:00	56°34.924'S	135°19.980'W	11.1	170	3361	3367	"	"	
	16:00	56°45.338'S	135°15.860'W	11.3	166	3270	3278	-H-	-H-	
	17:00	56°58.872'S	135°11.464'W	10.7	166	3166	3169	-H-	"	
	18:00	57°5.008'S	135°15.155'W	10.5	212	3375	3381	"	"	
	19:00	57°13.075'S	135°23.320'W	1.1	240	3123	3135	Single pulse	"	Start station PS75/061 (CTD, MN, MUC)
	18:57	57°13.014'S	135°23.311'W							CTD going to water
21.12.	01:54	57°12.655'S	135°22.854'W	0.2	144	3249	3252	Equi	"	End station PS75/061
	03:00	57°21.469'S	135°25.206'W	9.8	183	3393	3400	-H-	"	
	04:00	57°31.183'S	135°27.754'W	10.5	172	3241	3273	-H-	-H-	
	05:00	57°41.260'S	135°29.613'W	9.9	186	3421	3434	-H-	-H-	
	06:00	57°51.762'S	135°31.928'W	10.9	187	3581	3589	-H-	-H-	
	07:00	58°3.255'S	135°34.564'W	12.3	188	3735	3721	-H-	-H-	
	08:00	58°15.230'S	135°36.832'W	12.3	188	4176	4190	-H-	-H-	
	8:06.5	58°16.62'S	135°37.581'W							Crossing station PS75/062
	9:00	58°25.271'S	135°40.056'W	10.6	8.2	4017	4021	-H-	-H-	8:53 Start turning around
	10:00	58°16.735'S	135°37.454'W	8.8	329	4168	4192	Single	-H-	Start station PS75/062 (Single pulse: 10:30h)
	15:53	58°16.806'S	135°37.925'W	1.4	180	4154	4180	Equi	-H-	End station PS75/062 (MUC, KOL)
	16:00	58°17.584'S	135°37.876'W	9.5	184	4154	4177	Equi	-H-	
	17:00	58°27.135'S	135°39.796'W	9.8	183	4016	4025	-H-	-H-	
	18:00	58°36.798'S	135°42.213'W	9.8	186	4112	4130	-H-	-H-	
	19:00	58°38.506'S	135°42.632'W	6.5	83	3566	3588	-H-	-H-	
	20:00	58°42.713'S	135°49.484'W	12.0	200	3755	3761	-H-	-H-	
	21:00	58°54.506'S	135°37.445'W	12.5	199	3625	3901	-H-	-H-	
	20:58.5	58°54.25'S	135°37.25'W							Crossing station PS75/060
	22:22	58°54.721'S	135°37.151'W	6.7	356	3845	3866	-H-	-H-	21:43 Change to automatic, 22:22 Resuming after safety drill
	22:27	58°54.728'S	135°37.263'W	1.8	353	3829	3825	Single	-H-	Start station PS75/063 (KOL, MUC, CTD, MN)
22.12.	7:52	58°54.249'S	135°36.227'W	6.5	222	3537	3830	Equi	-H-	End station PS75/063
	9:00	59°3.559'S	135°51.826'W	11.7	222	3920	3939	-H-	-H-	
	10:00	59°11.835'S	136°7.295'W	11.8	224	3853	3868	-H-	-H-	
	11:00	59°20.131'S	136°22.702'W	11.1	225	4050	4064	-H-	-H-	
	12:00	59°28.204'S	136°37.812'W	10.8	227	4111	4135	-H-	-H-	
	13:00	59°35.448'S	136°52.363'W	11.3	224	3960	3967	-H-	-H-	



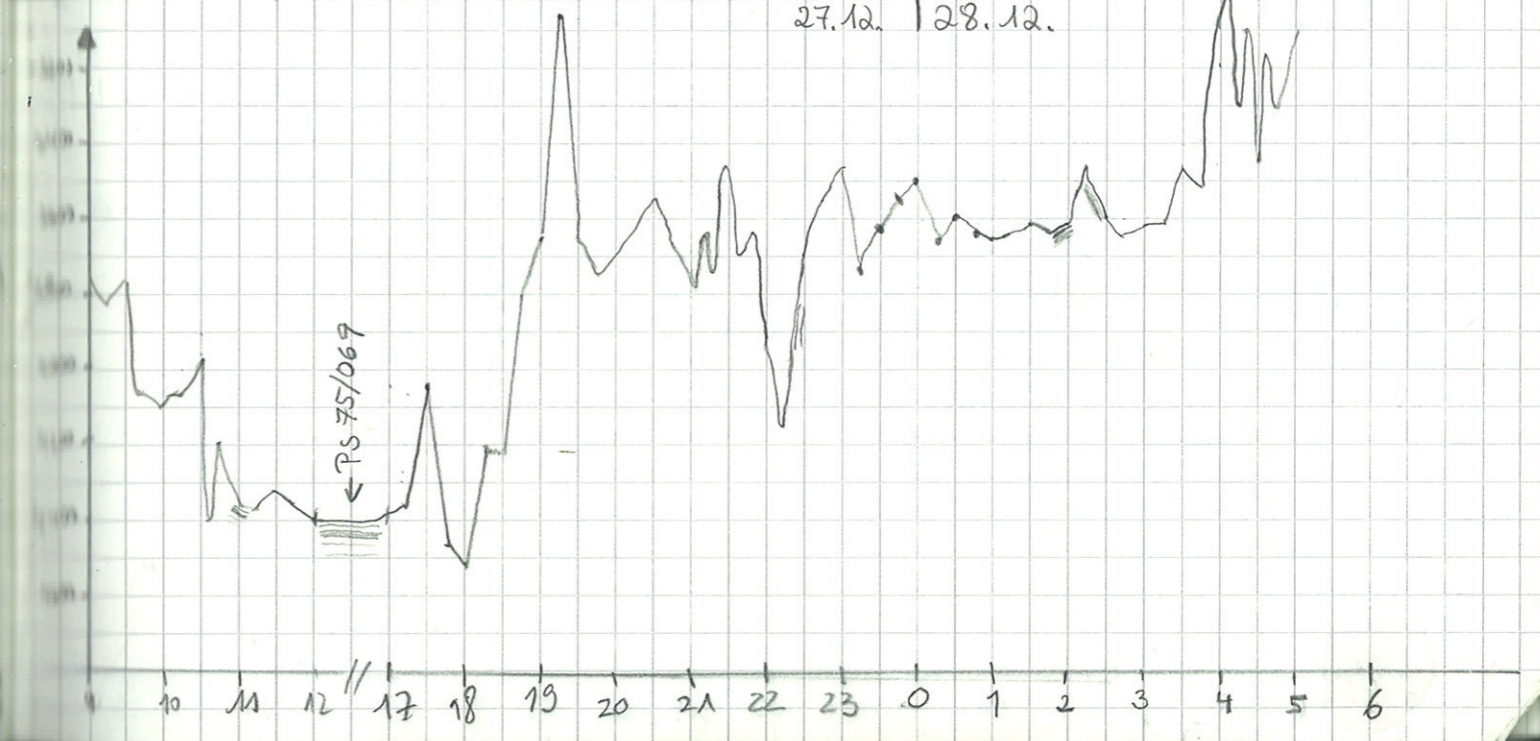
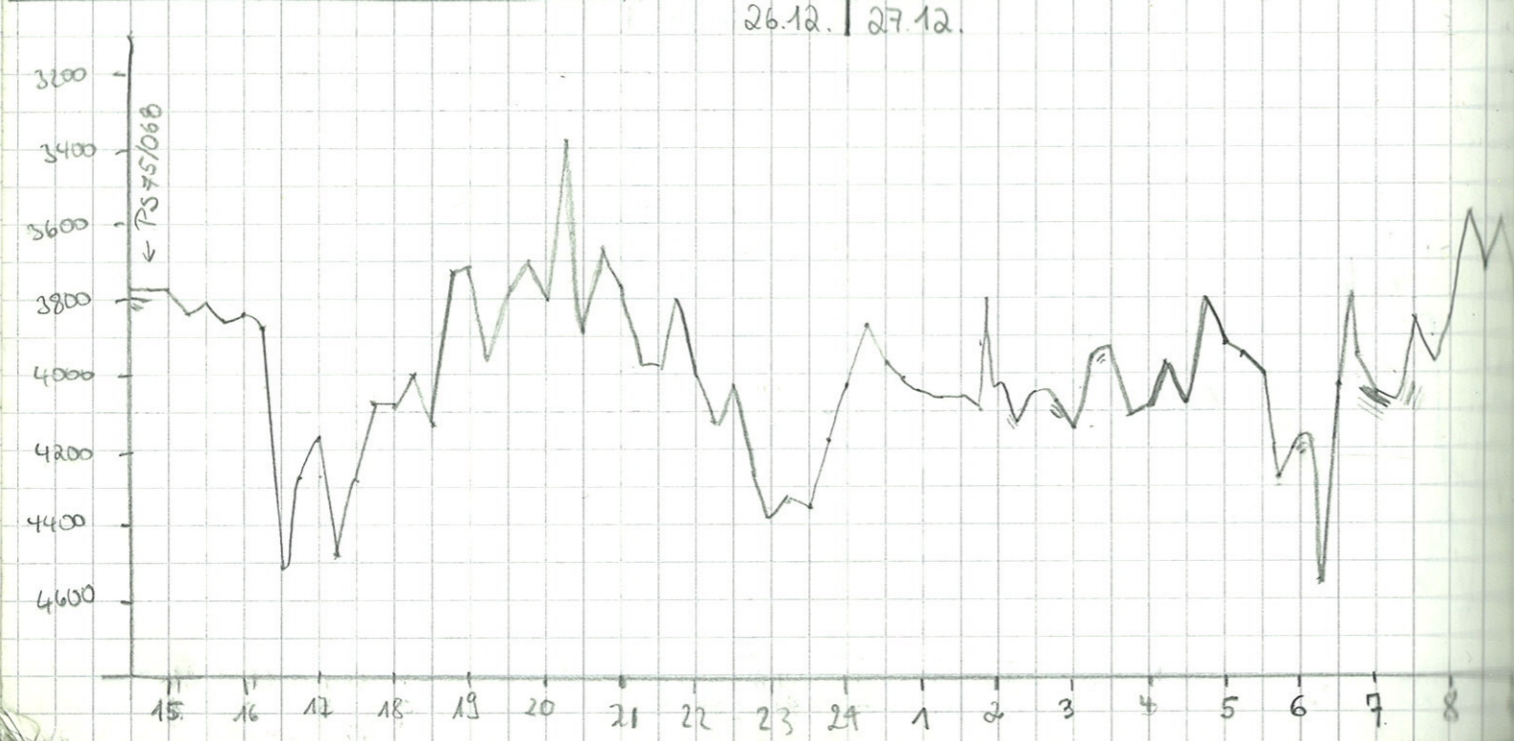
Date	Time UTC	Latitude	Longitude	Speed	Course	Depth PHT	Depth other	Transmission mode	system depth source	Remarks
22.12.	14:00	59° 43.811'S	137° 12.04'W	11.0	223	4140	4265	Equi	other	noisy
	15:00	59° 51.811'S	137° 22.360'W	10.9	223	4431	4447	- "	- "	
	16:00	59° 59.488'S	137° 36.919'W	11.2	224	4002	4033	- "	- "	16:04 Crossing 60°S
	17:00	60° 7.422'S	137° 52.128'W	11.3	222	4027	4040	- "	- "	
	18:00	60° 15.902'S	138° 08.031'W	11.5	219	4233	4257	- "	- "	
	19:00	60° 23.937'S	138° 23.998'W	11.6	222	4257	4279	- "	- "	
	20:00	60° 30.814'S	138° 40.368'W	10.8	302	4244	4265	- "	- "	
	21:00	60° 35.642'S	138° 54.403'W	11.1	215	3775	3783	- "	- "	
	22:00	60° 44.641'S	139° 07.137'W	10.6	215	3822	3838	- "	- "	
	23:00	60° 53.137'S	139° 18.811'W	7.7	210	3670	3667	- "	- "	
23.12.	00:00	61° 02.32'S	139° 27.615'W	11	214	4579	4578	- "	- "	
	0:41	61° 0.75'S	139° 27.82'W				4640	- "	- "	crossing station PS 75/064
	1:00	61° 2.208'S	139° 25.499'W	9.7	272.2	4572	4569	- "	- "	
	1:17	61° 0.740'S	139° 27.433'W	11.6	207	4615	4631	Single Equi	- "	Start Station PS 75/064 (KOL, MUC, CTD, MN)
	11:25	61° 1.795'S	139° 26.422'W	4.5	211	4567	4589	Equi	- "	End Station PS 75/064
	12:00	61° 5.303'S	139° 33.566'W	10.7	208	3914	3969	- "	- "	
	13:00	61° 14.071'S	139° 44.647'W	10.6	212	4228	4239	- "	- "	
	14:00	61° 22.472'S	139° 55.251'W	10.0	212	3954	3984	- "	- "	
	15:00	61° 31.211'S	140° 6.445'W	10.0	212	4169	4176	- "	- "	
	16:00	61° 40.185'S	140° 17.933'W	10.6	210	4088	4116	- "	- "	
	17:00	61° 49.156'S	140° 29.484'W	11.2	212	3855	3884	- "	- "	
	18:00	61° 58.401'S	140° 41.395'W	11.4	211	4159	4169	- "	- "	
	19:00	62° 7.973'S	140° 53.846'W	11.4	211	4284	4300	- "	- "	
	20:00	62° 18.057'S	141° 7.022'W	12	210	4295	4296	- "	- "	
	21:00	62° 28.301'S	141° 20.504'W	11.5	213	4309	4321	- "	- "	
	22:00	62° 28.298'S	141° 24.260'W	8.3	116	4122	4129	- "	- "	
	23:00	62° 27.085'S	141° 20.317'W	6.1	302	4333	4357	- "	- "	
24.12.	00:00	62° 36.740'S	141° 31.617'W	11.7	212.4	4546	4561	- "	- "	
	23:56.5	62° 36.23'S	141° 30.92'W				4539	- "	- "	crossing station PS 75/065
	0:55	62° 36.547'S	141° 30.848'W	3.2	280	4544	4560	Single Equi	- "	Start Station PS 75/065 (KOL, MUC, CTD, MN)
	11:04	62° 35.882'S	141° 31.117'W	7.6	251	4482	4508	Equi	- "	End Station PS 75/065
	12:00	62° 44.182'S	141° 41.503'W	12.8	213.1	4186.3	4194	- "	- "	
	13:00	62° 54.844'S	141° 55.632'W	12.7	211.2	4321.0	4348	- "	- "	
	14:00	63° 5.456'S	142° 3.386'W	12.4	213	4602.9	4637	- "	- "	
	15:00	63° 14.702'S	142° 22.415'W	9.7	208.6	4217	4300	- "	- "	
	16:00	63° 22.937'S	142° 33.650'W	9.7	212	3900	3912	- "	- "	
	17:00	63° 31.198'S	142° 45.656'W	9.6	212	3545	3601	- "	- "	



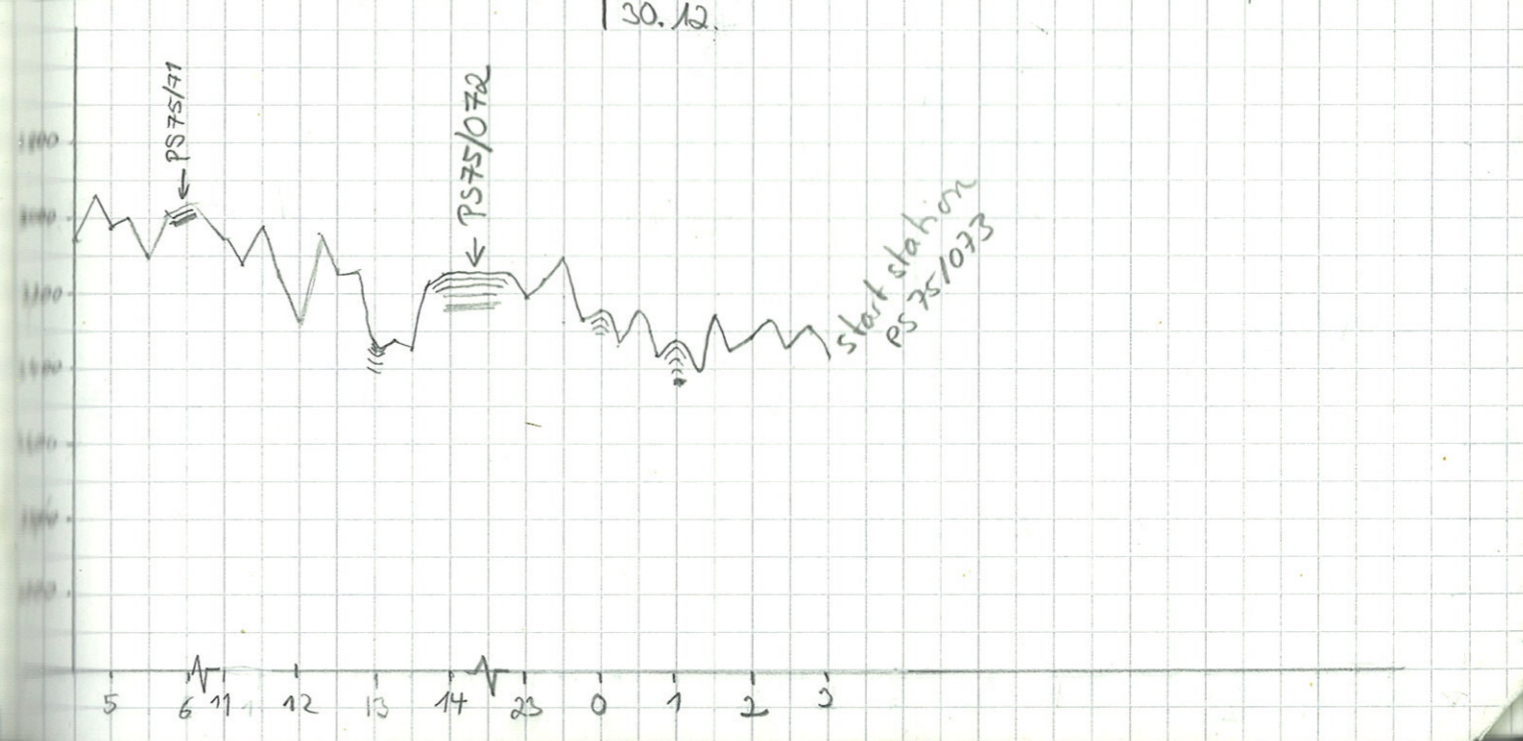
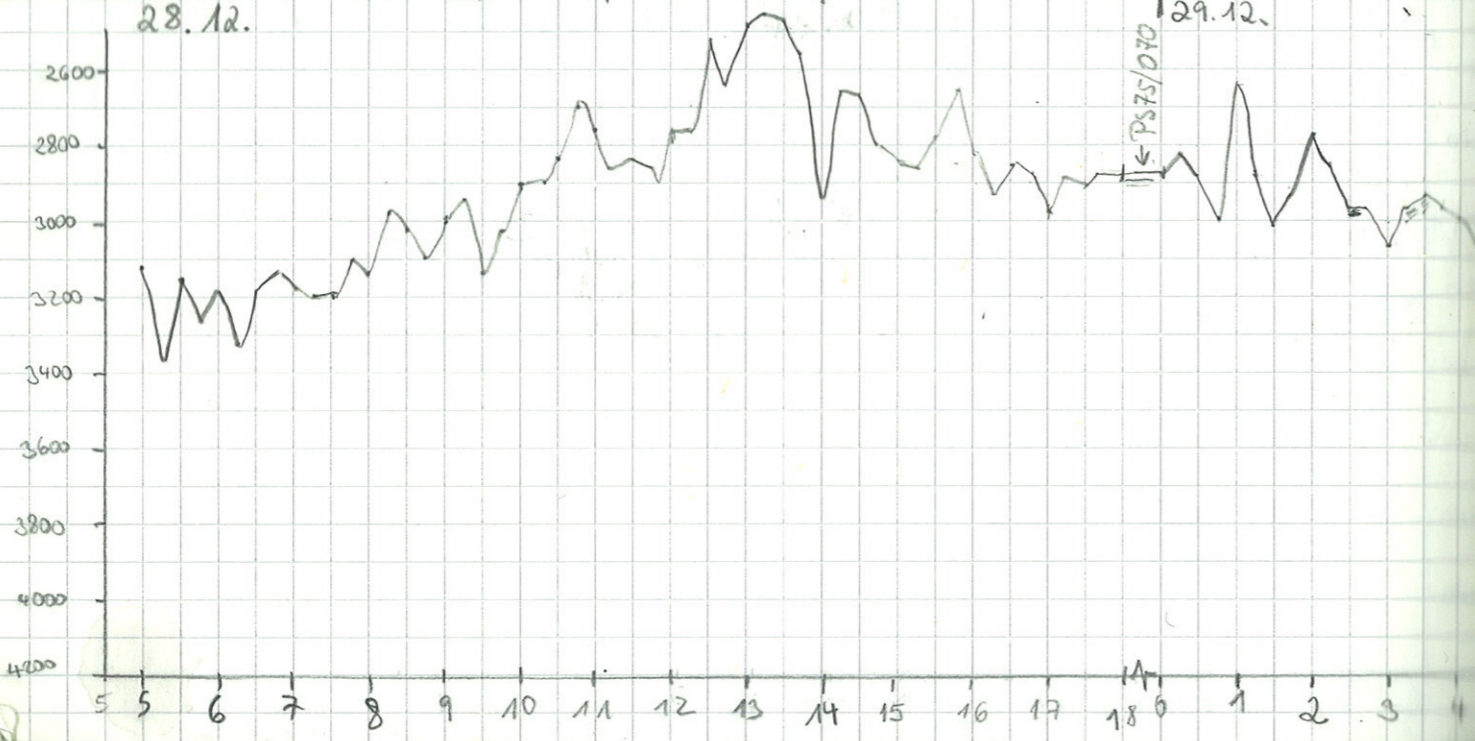
Date	Time UTC	Latitude	Longitude	Speed	Course	Depth PAF	Depth other	Transmission mode	System depth source	Remarks
24.12.	18:00	63° 36,861'S	143° 2,569'W	9,9	202	4033	4024	Equi	other	
	19:00	63° 42,779'S	143° 20,242'W	9,9	204	4188	4206	- " -	- " -	19:54 Start Survey
	20:00	63° 48,801'S	143° 35,997'W	10	184	4123	4133	- " -	- " -	
	21:00	63° 58,587'S	143° 35,780'W	9,6	180	3690	3717	- " -	- " -	
	22:00	64° 7,412'S	143° 42,025'W	9,4	206	3719	3711	- " -	- " -	
	23:00	64° 15,759'S	143° 51,312'W	9,3	207	4092	4109	- " -	- " -	
	25.12.	0:00	64° 24,060'S	143° 51,101'W	9,5	150	4091	4101	- " -	- " -
	1:00	64° 19,176'S	143° 36,190'W	8,7	43	4179	4192	- " -	- " -	
	2:00	64° 12,691'S	143° 22,301'W	8,7	30	3690	3692	- " -	- " -	2:20-3:40 automatic
	3:00	64° 4,742'S	143° 12,398'W	9,3	30	3898	3862	- " -	- " -	
	4:00	63° 58,940'S	143° 0,440'W	10,0	122	4424	4450	- " -	- " -	
	5:00	64° 04,186'S	142° 42,653'W	8,3	278	4441	4463	- " -	- " -	
	6:00	64° 9,887'S	143° 7,732'W	9,4	234	3486	3472	- " -	- " -	
	7:00	64° 14,292'S	143° 10,934'W	9,4	152	3908	3813	- " -	- " -	
	8:00	64° 22,609'S	143° 20,174'W	9,7	241	4170	4187	- " -	- " -	
	9:00	64° 31,175'S	143° 23,200'W	9,5	202	4342	4351	- " -	- " -	
	10:00	64° 39,933'S	143° 31,250'W	9,3	199	4173	4217	- " -	- " -	10:04 Reboot Operator PC (windows problem)
	10:52	64° 40,187'S	143° 35,881'W	9,8	12	4275	4310	- " -	- " -	System writing again
	11:00	64° 40,049'S	143° 37,221'W	8,6	85	4268	4280	Single	- " -	back on course
	12:00	64° 48,921'S	143° 45,066'W	9,0	201,5	4303	4346	- " -	- " -	12:23 Switch to Equi/Distance Mode
	13:00	64° 52,386'S	143° 48,684'W	9,1	188,3	4121	4124	Equi	- " -	
	14:00	65° 0,656'S	144° 1,840'W	8,4	19,7	4048	4103	- " -	- " -	
	15:00	64° 51,433'S	143° 56,859'W	9,1	13,8	3682	3679	- " -	- " -	
	16:00	64° 46,008'S	144° 2,885'W	9,1	269	3675	3719	- " -	- " -	
	17:00	64° 46,005'S	144° 23,680'W	8,9	268	3869	3891	- " -	- " -	
	18:00	64° 52,451'S	144° 36,186'W	9,4	207	4142	4160	- " -	- " -	21:11,5 Crossing Station PS75/069 64° 56,03'S 144° 06,84'W
	19:00	64° 55,120'S	144° 46,937'W	9,3	12	4033	4054	- " -	- " -	
	19:26	64° 51,529'S	144° 49,903'W	9,6	11	3859	3876	- " -	- " -	Finish survey
	20:00	64° 52,517'S	144° 33,126'W	10	108	4059	4041	- " -	- " -	20:30 - System Depth source changed to MANUAL
	21:00	64° 55,334'S	144° 12,00'W	10,2	108,9	3671	3677	- " -	- " -	20:56 " " " " OTHER SOUNDING SYSTEM
	22:00	64° 58,262'S	143° 42,745'W	10,5	106,3	4135	4210	- " -	- " -	22:24,5 Crossing Station PS75/067 64° 58,25'S, 143° 42,21'W 4205m
	23:00	65° 00,000'S	143° 51,299'W	5,6	111,9	4202	4215	- " -	- " -	
	22:24,5	64° 58,25'S	143° 48,21'W				4205	- " -	- " -	Crossing Station PS 75/067
	23:43	64° 58,433'S	143° 47,518'W	0,4	14,9	4283	4210	Single	- " -	Start Station PS75/067
26.12.	09:00	64° 58,484'S	143° 42,453'W	0,5	220	4196	4207	Equi	- " -	End Station PS75/067
	10:00	64° 56,064'S	144° 6,519'W	3,0	288	3766	3779	- " -	- " -	
	10:03	64° 56,027'S	144° 6,761'W	0,3	303	3761	3772	Single	- " -	Start Station PS75/068 (KOL)



Date	Time UTC	Latitude	Longitude	Speed	Course	Depth PHT	Depth alt	Transmission mode	System depth source	Remarks
26.12.	14:45	64° 56, 00' S	144° 7, 432' W	2,6	266	3816	3828	Egain	alter	End Station PS75/068
	15:00	64° 54, 285' S	144° 6, 771' W	2,3	10,7	3773	3788	-	-	
	16:00	64° 45, 824' S	143° 54, 744' W	8,6	46,7	3844	3833	"	"	
	17:00	64° 35, 493' S	143° 44, 524' W	11,4	17,6	4238	4228	"	"	
	18:00	64° 24, 978' S	143° 34, 907' W	12	36,6	4069	4081	-	-	
	19:00	64° 15, 546' S	143° 19, 001' W	11,3	55,3	3697	3710	-	-	
	20:00	64° 12, 314' S	142° 56, 792' W	11,3	330,2	3797	3750	-	-	
	21:00	64° 5, 463' S	143° 16, 181' W	11,6	300,2	3955	3877	-	-	
	22:00	63° 56, 987' S	143° 25, 999' W	11,7	0	3985	4007	-	-	
	23:00	63° 46, 000' S	143° 37, 360' W	10,6	330	4337	4338	-	-	
27.12.	24:00	63° 37, 262' S	143° 43, 506' W	10,4	330	4010	4025	-	-	
	1:00	63° 28, 384' S	143° 55, 641' W	10,1	328	4027	4040	-	-	
	2:00	63° 19, 791' S	144° 7, 298' W	9,6	327	4010	4024	-	-	
	3:00	63° 11, 802' S	144° 18, 096' W	9,8	327	4133	4141	-	-	
	4:00	63° 4, 204' S	144° 28, 312' W	8,2	327	4079	4098	-	-	
	5:00	62° 56, 700' S	144° 38, 392' W	7,2	329	3900	3915	-	-	
	6:00	62° 49, 733' S	144° 47, 716' W	9,1	328	4145	4158	-	-	
	7:00	62° 42, 250' S	144° 57, 661' W	8,2	330	4045	4057	-	-	
	8:00	62° 35, 159' S	145° 7, 036' W	9,2	329	3844	3850	-	-	
	9:00	62° 27, 481' S	145° 17, 129' W	8,2	328	3783	3792	-	-	
	10:00	62° 19, 913' S	145° 27, 579' W	9,7	327	4051	4080	-	-	
	11:00	62° 11, 360' S	145° 38, 293' W	9,9	327	4367	4368	-	-	
	10:54	62° 12, 23' S	145° 37, 16' W				4371	-	-	
	12:00	62° 12, 998' S	145° 37, 973' W	3,8	113	4389	4358	Single	-	Crossing Station PS75/069 Start Section PS75/069 (KOL/9WC) End Station PS75/069 steaming
	17:15	62° 12, 231' S	145° 37, 241' W	0,5	112	4352	4368	Egain	-	
	17:30							"	"	
	18:15	62° 08, 03' S	145° 42, 64' W	5,9	330	4203	4212	"	"	
	19:00	62° 2, 053' S	145° 50, 420' W	10,7	330	3636	3647	"	"	
	20:00	61° 52, 824' S	146° 2, 340' W	11,5	331	3726	3709	"	"	
	21:00	61° 43, 390' S	146° 11, 48' W	11,2	325	3713	3742	"	"	
	22:00	61° 33, 983' S	146° 26, 551' W	11,4	330	3922	3924	"	"	
	23:00	61° 24, 388' S	146° 38, 781' W	11,2	330	3466	3485	"	"	
28.12.	0:00	61° 14, 743' S	146° 50, 782' W	11,0	327	3720	3663	"	"	
	1:00	61° 5, 178' S	147° 3, 063' W	11,6	327	3650	3667	-	-	
	2:00	60° 54, 906' S	147° 15, 977' W	11,4	329	3598	3607	-	-	
	3:00	60° 45, 477' S	147° 27, 777' W	11,3	327	3596	3610	-	-	
	4:00	60° 35, 620' S	147° 40, 002' W	11,3	329	3070	3087	-	-	



Date	Time UTC	Latitude	Longitude	Speed	Course	Depth PHT	Depth other	Transmission mode	System depth source	Remarks	
28.12.	5:00	60° 25.938 S	147° 52.018 W	11.7	330	3115	3132	Equi	other		
	6:00	60° 16.112 S	148° 4.066 W	11.3	334	3206	3196	- -	- -		
	7:00	60° 6.408 S	148° 15.961 W	11.5	330	3182	3206	- -	- -		
	8:00	59° 56.603 S	148° 27.904 W	11.9	327	3127	3105	- -	- -		
	9:00	59° 46.501 S	148° 40.162 W	11.3	326	2977	2981	- -	- -		
	10:00	59° 36.747 S	148° 51.855 W	11.7	329	2902	2907	- -	- -		
	11:00	59° 26.817 S	149° 3.762 W	11.8	335	2790	2802	- -	- -		
	12:00	59° 16.755 S	149° 15.482 W	11.6	332	2764	2765	- -	- -		
	13:00	59° 6.555 S	149° 27.423 W	12.2	334	2476	2482	- -	- -		
	14:00	58° 56.496 S	149° 39.065 W	11.9	331	2928	2927	- -	- -		
	15:00	58° 46.276 S	149° 50.896 W	11.6	327	2860	2856	- -	- -		
	16:00	58° 35.870 S	150° 2.807 W	12.4	329	2918	2924	- -	- -		
	17:00	58° 32.648 S	150° 6.521 W	11.8	143	2976	2975	- -	- -		
	18:00	58° 34.844 S	150° 4.151 W	2.4	37	2878	2881	Single Pulse Equi	- -	17:19 Crossing Station PS 75/070 58° 34.88' S 150° 3.94' W 2887m Start station PS 75/070 (MUC, KOL, CTD) End station PS 75/070	
	29.12.	00:00	58° 34.604 S	150° 3.340 W	3.0	261	2881	2887	Equi	- -	
		1:00	58° 26.361 S	150° 13.660 W	9.8	334	2606	2626	- -	- -	
		2:00	58° 17.329 S	150° 23.952 W	11.2	326	2767	2780	- -	- -	
		3:00	58° 7.830 S	150° 34.661 W	11.7	323	3086	3071	- -	- -	
4:00		57° 58.060 S	150° 45.721 W	10.4	326	2336	3006	- -	- -		
5:00		57° 48.541 S	150° 56.356 W	12.2	327	3019	3028	- -	- -		
6:37		57° 52.395 S	150° 52.074 W							Crossing Station PS 75/071 (MUC, KOL(20))	
6:00		57° 51.720 S	150° 51.374 W	9.1	198	2950	2959	- -	- -		
6:11		57° 52.350 S	150° 52.053 W					Single Pulse Equi	- -	Start station PS 75/071 End station PS 75/071	
10:53		- -	- -					Equi	other		
11:00		57° 52.000 S	150° 53.362 W	11.8	330	3066	3074	- -	- -		
12:00		57° 41.210 S	151° 4.587 W	11.1	327	3219	3250	- -	- -		
12:50:30		57° 33.52 S	151° 13.12 W	11.6	329	3157	3144	- -	- -	Crossing Station PS 75/072	
13:00		57° 30.967 S	151° 16.060 W	11.4	326	3272	3289	- -	- -		
13:58	57° 33.394 S	151° 12.489 W	0.5	142	3140	3145	Single Pulse	- -	Start of Station PS 75/072 (CTD, KOL, MUC, SL)		
22:39	57° 33.482 S	151° 13.011 W	1.6	36	3134	3142	Equi	- -	End Station PS 75/072		
23:00	57° 32.140 S	151° 14.657 W	9.0	321	3202	3204	- -	- -			
30.12.	0:00	57° 22.200 S	151° 25.665 W	10.9	328	3251	3261	- -	- -		
	1:00	57° 12.429 S	151° 36.464 W	11.0	328	3292	3317	- -	- -	1:45 ship turned	
	2:00	57° 7.144 S	151° 41.418 W	12.5	150	3292	3306	- -	- -		
	1:01	57° 12.27 S	151° 36.64 W				3282	- -	- -	Crossing Station PS 75/073	
	3:00	57° 12.490 S	151° 36.651 W	4.1	287	3357	3371	Single	- -	Start station PS 75/073 (KOL, KAL)	
9:32	111 S	36, 508 W	2.1	325	3271	3296	Quasi Equi Distort	- -	End station PS 75/073 1.59°C 33.95 psu		



Date	Time UTC	Latitude	Longitude	Speed	Course	Depth PHT	Depth other	Transmission mode	System depth source	Remarks	Temp bow	salin. bow
30.12.	10:00	57° 11, 121'S	151° 37, 58'W	8.2	323	3299	3311	equi	other		1.67°C	33.95
	10:30	57° 5, 96'S	151° 43, 57	11.2	329	3250	3298	"	"		1.73°C	33.94
	11:00	57° 7, 295	151° 48, 72	11.8	327	3112	3120	"	"		1.88°C	33.87
	11:30	56° 56, 773	151° 54, 35	11.9	331	3340	3346	"	"		2.57	33.86
	12:00	56° 51, 01	151° 59, 95	12	328	3387	3390	"	"		2.59	33.83
	12:30	56° 45, 368S	152° 06, 185W	11.8	327	3485	3484	N	N	See right →	3.65	33.82
	13:00	56° 40, 352S	152° 11, 388W	11.9	328	3551	3560	N	N		4.02	33.86
	13:30	56° 34, 867S	152° 17, 528W					"	"		4.26	33.86
	14:00	56° 30, 270S	152° 22, 502W	12.0	331	3412	3425	"	"		4.15	33.80
	14:30	56° 25, 050S	152° 28, 103W	12	330	3375	3374	"	"		4.20	33.86
	15:00	56° 19, 785S	152° 33, 851W	12.3	330	3766	3774	"	"		4.80	33.84
	15:30										4.65	33.85
	16:00	56° 10, 632S	152° 43, 656W	10.7	327	3788	3788	A	"		4.65	33.84
	16:30	56° 6, 382S	152° 49, 705W	11.2	798	3698	3742	-W	-W		4.97	33.84
	17:00	56° 14, 681S	152° 39, 291W				3342			Crossing Station PS 75/074	4.67	33.85
	17:30	56° 10, 837S	152° 45, 720W	11.8	150	3940	3942	-W	-W			
	17:37	56° 11, 766S	152° 59, 346W	3.5	28	3325	3342	Single Equi	-W		Start Station PS 75/074 (MUC, CTD, KOL)	
31.12.	00:52	56° 14, 760S	152° 39, 241W	5.1	8	3326	3349	Equi	-W	End Station PS 75/074 56° 14.760S 152° 39.241W		
	01:00	56° 13, 976S	152° 39, 816W	9.9	331	3468	3461	-W	-W	(~ 4.65 ~ 33.84)?		
	01:30	56° 9, 361S	152° 44, 984W	9.6	331	3893	3926	-W	-W	4.96°C	33.84	
	2:00	56° 5, 546S	152° 49, 116W	10.7	328	3375	3384	-W	-W	5.15°C	33.84	
	2:30	56° 1, 154S	152° 53, 766W	10.1	332	3817	3829	-W	-W	5.32°C	33.84	
	3:00	55° 56, 752S	152° 58, 427W	9.3	326	3132	3190	-W	-W	5.26°C	33.85	
	3:30	55° 52, 468S	153° 3, 039W	9.4	328	3448	3457	-W	-W	4.99°C	33.87	
	(20:00) 4:00	55° 48, 896S	153° 6, 827W	9.3	330	3555	3569	-W	-W	4.49°C	33.86	
	4:30	55° 45, 131S	153° 10, 873W	8.4	323	2983	2994	-W	-W	4.44°C	33.81	
	5:00	55° 41, 638S	153° 14, 540W	7.4	330	3937	3954	-W	-W	4.52°C	33.79	
	5:30	55° 38, 215S	153° 18, 188W	8.2	329.5	3769	3825	-W	-W	4.67°C	33.79	
	6:00	55° 34, 822S	153° 21, 766W	6.5	330	3848	3860	"	"	4.94°C	33.83	
	6:30	55° 31, 308S	153° 25, 051W	8.1	327	3883	3877	"	"	4.93°C	33.83	
	7:00	55° 28, 540S	153° 28, 338W	6.9	333	3887	3911	"	"	5.11°C	33.81	
7:30	55° 25, 446S	153° 31, 624W	7.6	326	3786	3816	"	"	5.76°C	33.84		
8:00	55° 22, 141S	153° 35, 121W	8.0	325	2845	3847	"	"	5.61°C	33.84		
8:30	55° 18, 562S	153° 38, 458W	9.1	329	3905	3929	"	"	5.86°C	32.85		
9:00	55° 15, 531S	153° 42, 039W	6.4	324	4002	4015	"	"	5.37°C	33.86		
9:30	55° 12, 015S	153° 45, 433W	7.9	330	3840	3861	"	"	5.56	33.86		

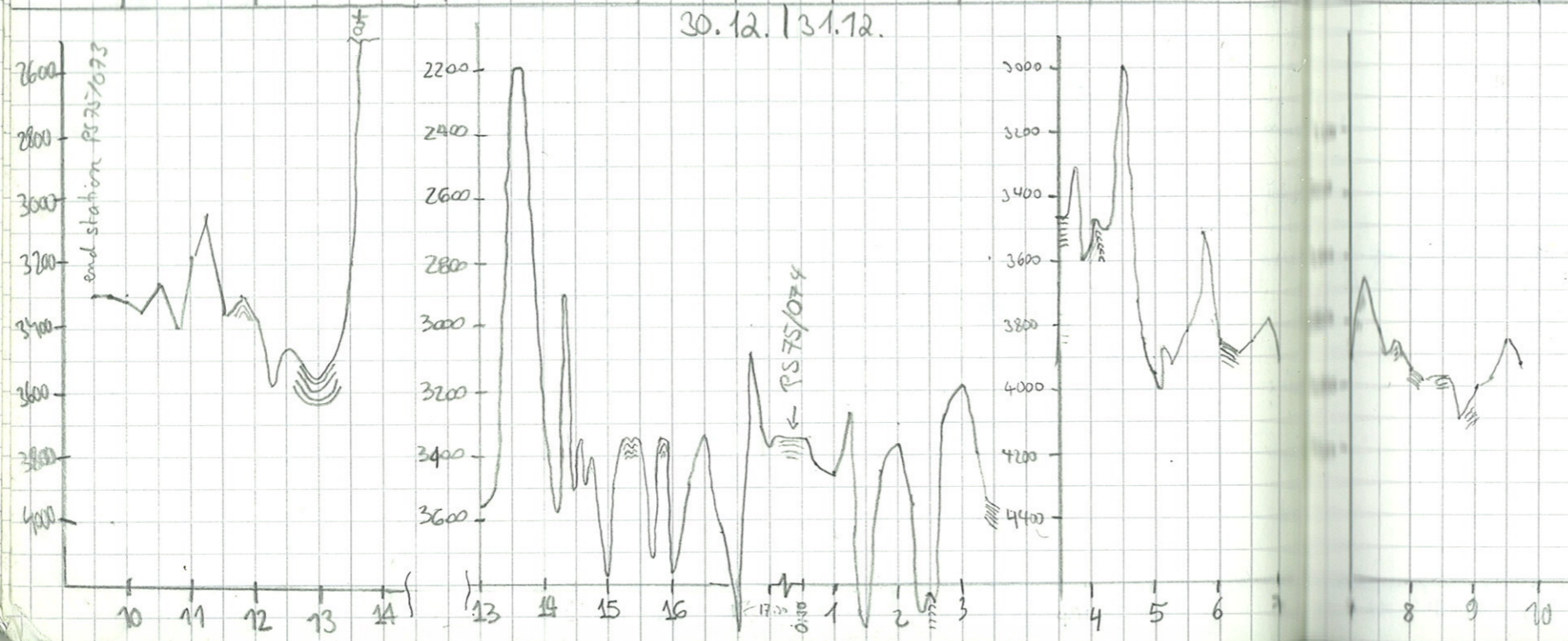
Between 12:45 & 13:20, ca. 80 m thick sediments at Polar Front, lewards of a Fracture Zone

Ship turning

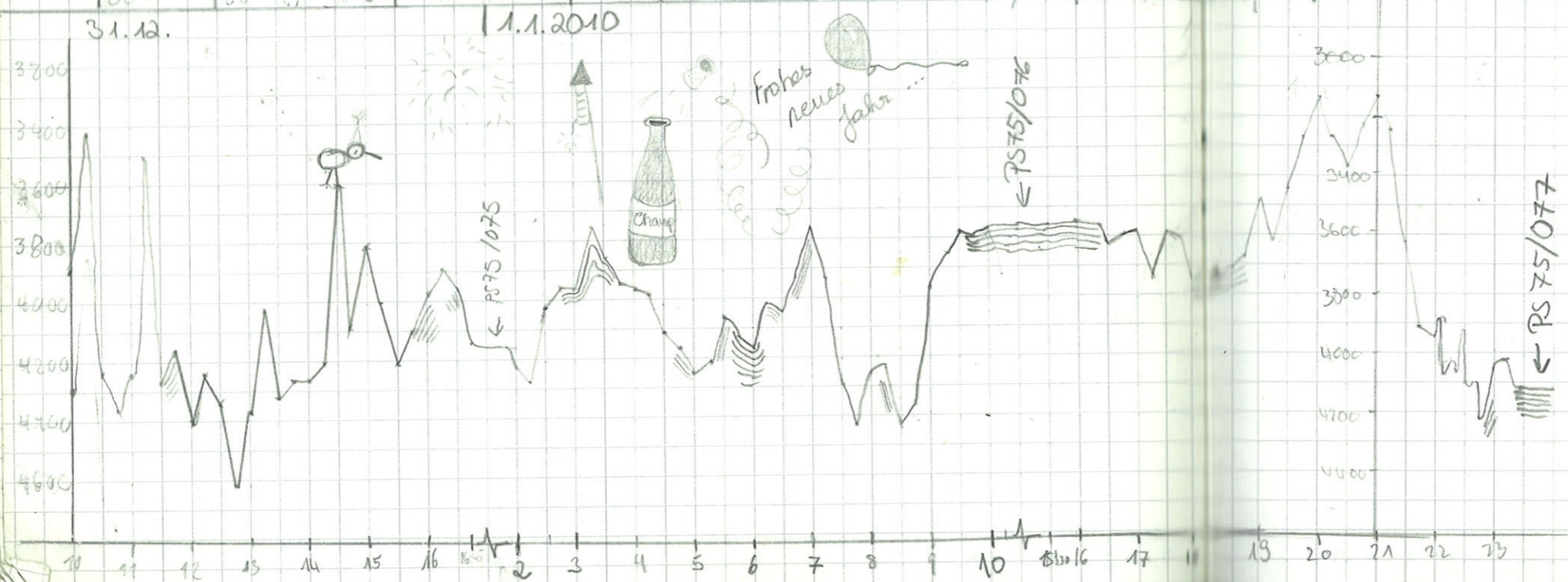
Crossing Station PS 75/074

Start Station PS 75/074 (MUC, CTD, KOL)

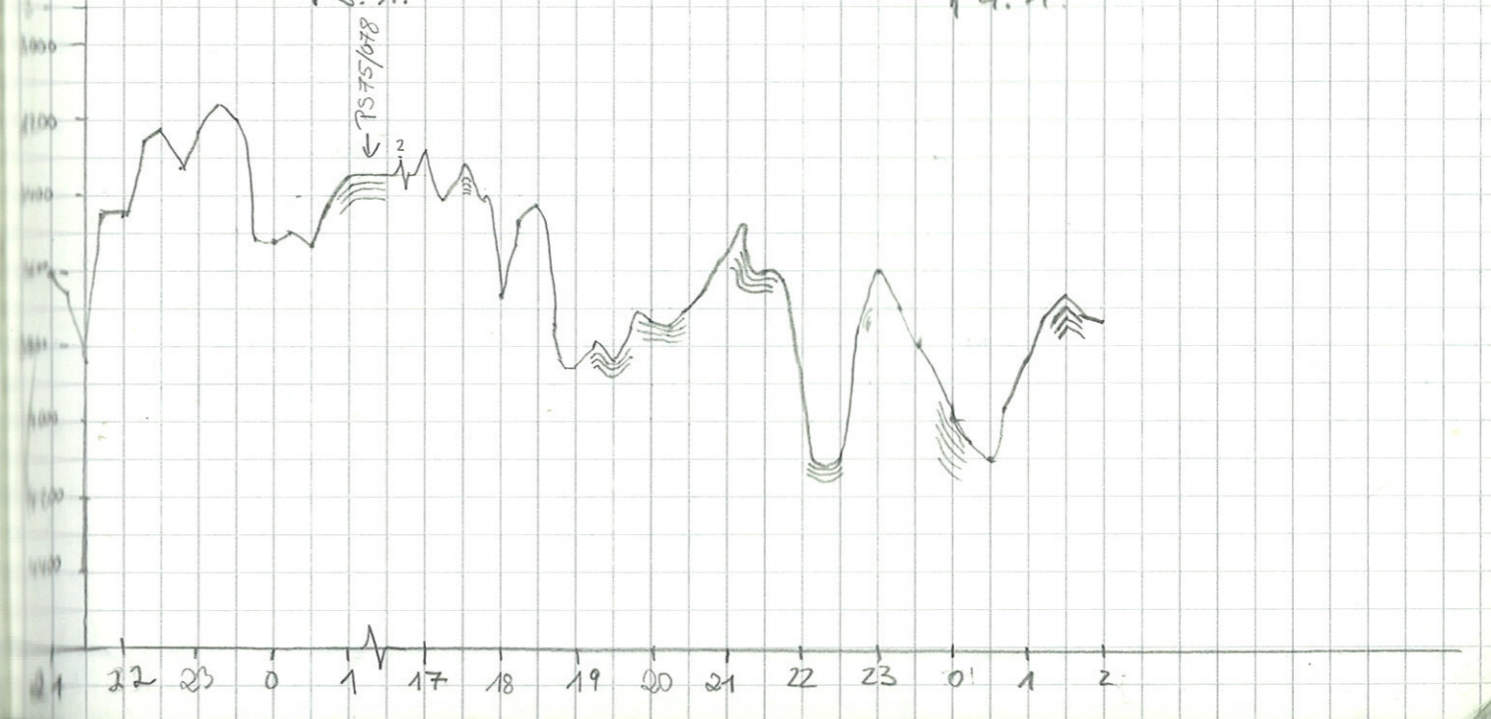
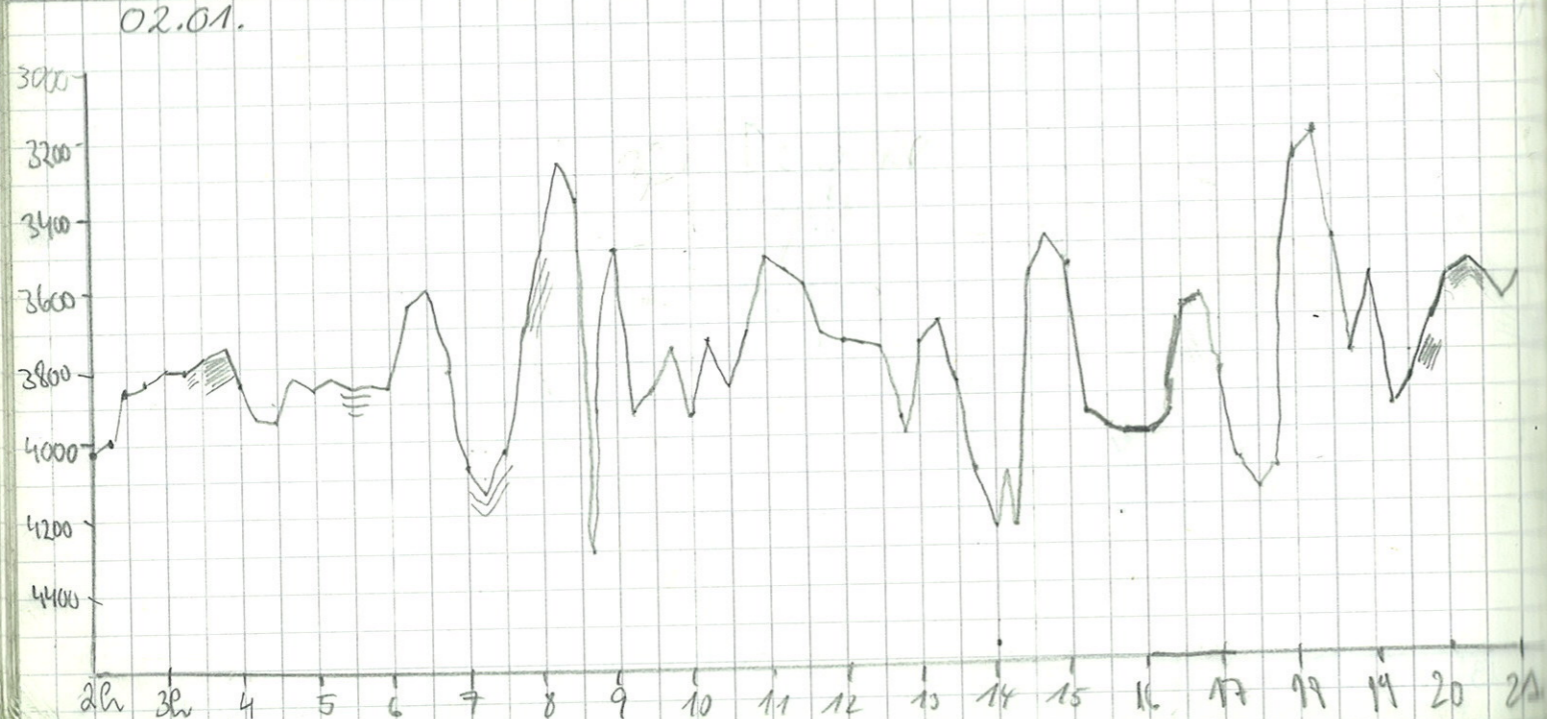
End Station PS 75/074 56° 14.760S 152° 39.241W



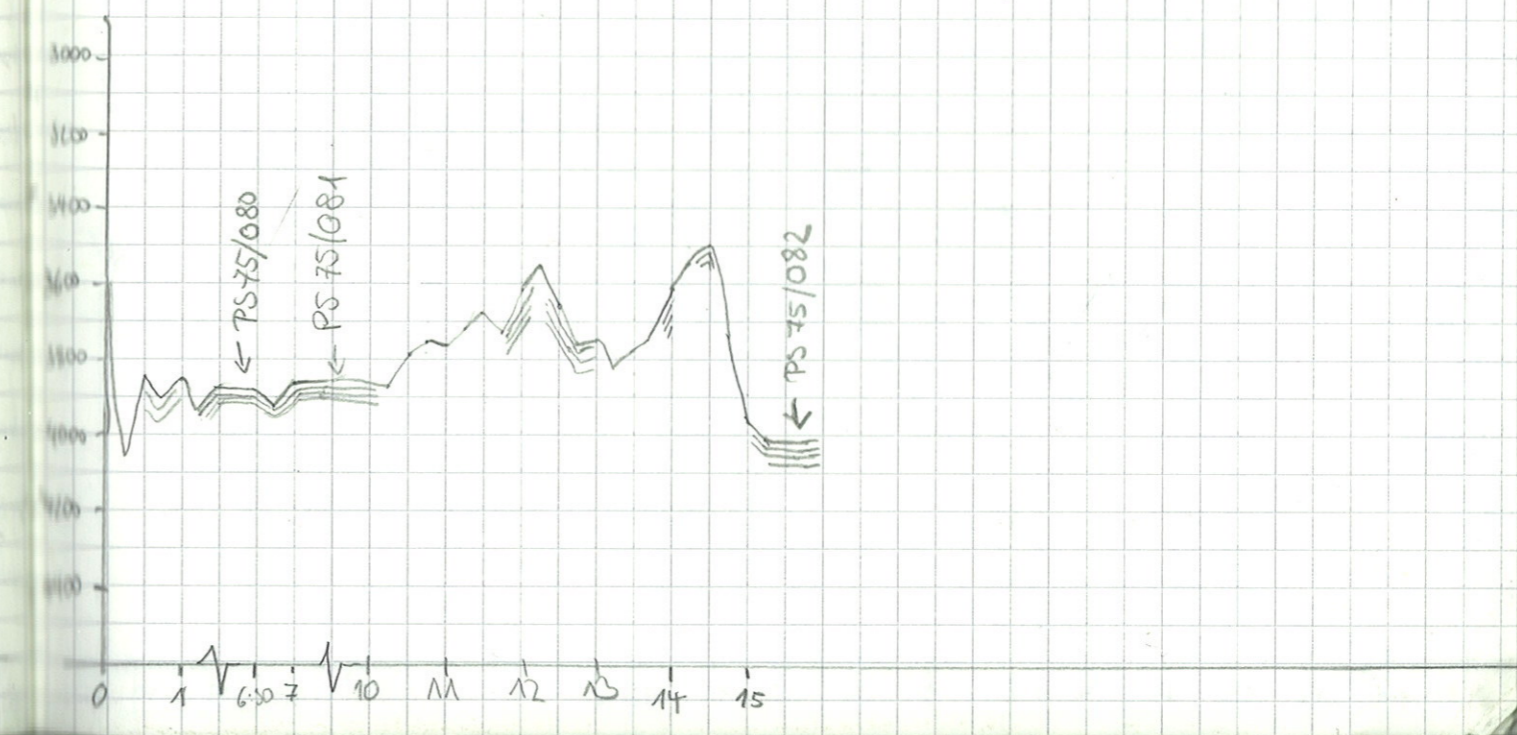
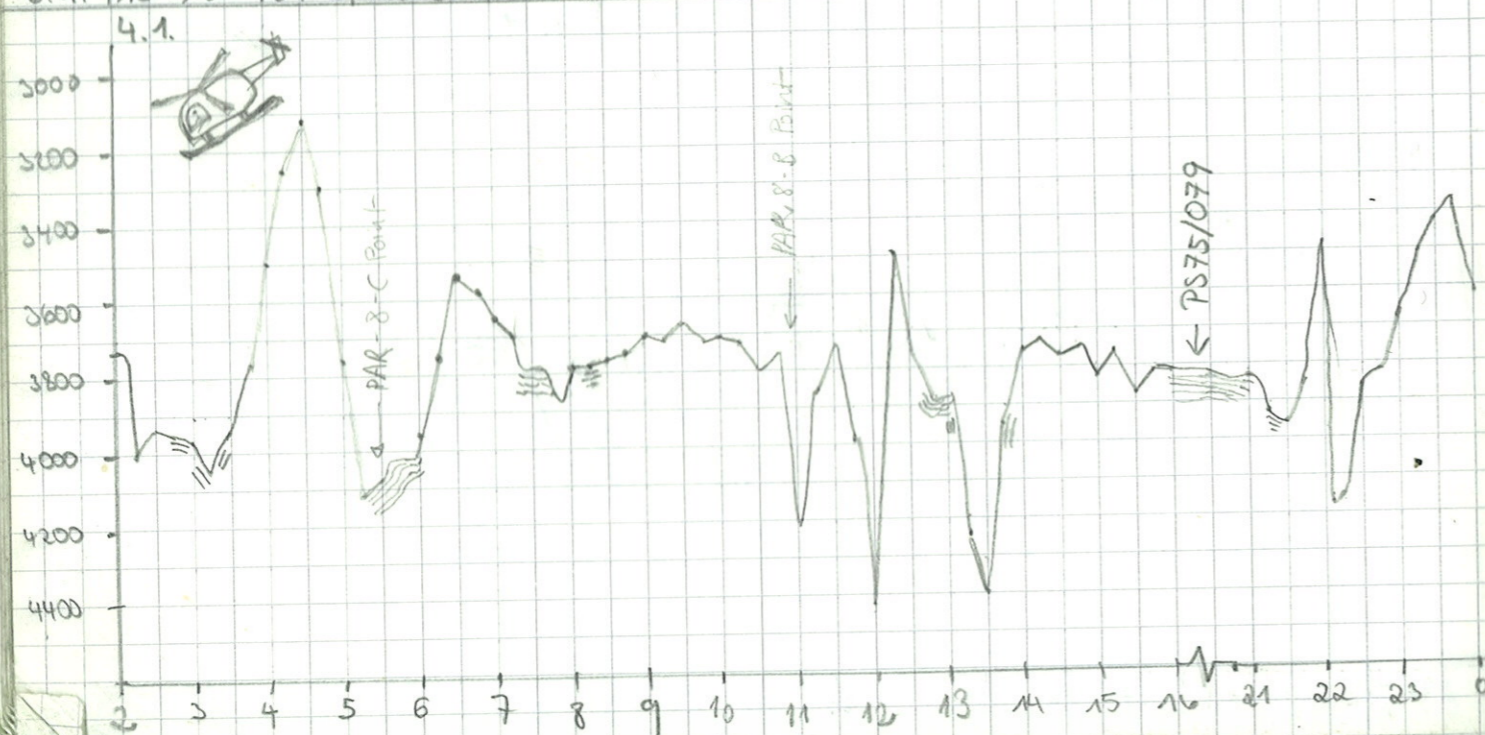
Date	Time UTC	Latitude	Longitude	Speed	Course	Depth PAF	Depth after	Transmission made	System depth source	Full hour temp. bow	Full hour salin. bow	Half hour temp. bow	Half hour salin. bow	Remarks
31.12.	10:00	55° 6,549'S	153° 49,340'W	8,9	329	3886	3903	"	"	7,04	33,84	7,04	33,89	Temperatursprung
	11:00	55° 1,411'S	153° 56,769'W	8,9	323	4199	4232	"	"	6,36	33,89	6,42	33,84	
	12:00	54° 53,869'S	154° 4,531'W	9,1	330	4370	4403	"	"	6,38	33,88	6,35	33,88	
	13:00	54° 46,127'S	154° 12,703'W	9,5	331	4359	4387	"	"	7,06	33,87	7,37	33,86	
	14:00	54° 38,410'S	154° 20,667'W	9,1	326	4257	4284	"	"	7,51	33,89	7,51	33,90	
	15:00	54° 30,580'S	154° 28,753'W	9,1	329	3843	3848	"	"	7,60	33,90	7,70	33,90	
	16:00	54° 22,843'S	154° 36,682'W	9,5	324	3971	3975	-	-	7,65	33,9	7,66	33,9	
	15:50,5	54° 24,23'S	154° 35,28'W				4136							Crossing station PS 75/075 Start Station PS75/075 (CTD, MUC, KOL) end of station PS 75/075
	16:41	54° 24,444'S	154° 35,275'W	3,5	20,3	4113	4141	Single						
1.1.	11:56	54° 24,210'S	154° 35,482'W	4,2	201	4191	4188	Equi	-	7,75	33,88	7,62	33,89	
	2:00	54° 24,540'S	154° 35,887'W	5,7	225	4216	4222	-	-	7,72	33,84	7,67	33,87	
	3:00	54° 32,243'S	154° 46,203'W	11,6	219	3858	3864	-	-	7,52	33,88	7,52	33,88	
	4:00	54° 42,118'S	154° 59,745'W	11,6	216	3970	3969	-	-	7,00	33,93	6,36	33,86	
	5:00	54° 50,366'S	155° 11,040'W	11,8	219	4230	4245	-	-	6,16	33,85	6,09	33,85	5:40 - 6:05 good sediments (penetration 100m)
	6:00	54° 59,511'S	155° 23,635'W	11,8	220	4156	4170	-	-	6,06	33,86	6,07	33,86	
	7:00	55° 8,353'S	155° 35,909'W	11,7	220	3758	3769	-	-	6,02	33,84	6,16	33,86	
	8:00	55° 17,550'S	155° 48,644'W	11,7	217	4186	4236	-	-					
	9:00	55° 26,383'S	156° 0,998'W	11,4	219	3915	3973	-	-					
	9:37	55° 31,73'S	156° 8,431'W				3768							Crossing station PS75/076 Start Station PS75/076 (MUC, KOL) End Station PS75/076
	10:00	55° 32,717'S	156° 9,328'W	13,7	50,9	3756	3771	-	-	6,15	33,84			
	10:15	55° 31,670'S	156° 9,990'W	2,2	281,0	3728,4	3910,9	Single	-	6,18	33,88			
	15:30	55° 31,709'S	156° 8,306'W	1,1	210	3755	3772	Equi	-			6,20	33,88	
	16:00	55° 32,679'S	156° 9,175'W	2,9	204	3754	3769	-	-	6,21	33,88			
	16:30	55° 32,377'S	156° 7,425'W	11,2	190	3815	3817	-	-	6,02	33,86	6,15	33,87	
	17:00	55° 35,923'S	156° 13,757'W	10,6	294,7	3752	3766	-	-					
	17:30	55° 40,386'S	156° 20,171'W	12,2	190	3786	3798	-	-	6,61	33,86	6,02	33,85	
	18:00	55° 46,388'S	156° 22,320'W	12,5	190	3918	3933	-	-	6,52	33,88			
	18:30	55° 52,561'S	156° 24,541'W	12,6	192	3883	3902	-	-			5,74	33,84	
	18:00	55° 58,541'S	156° 26,725'W	12,8	186	3664	3695	-	-					
	19:30	56° 4,845'S	156° 28,991'W	13	193	3639	3640	-	-	5,49	33,83	5,51	33,83	
	20:00	56° 10,873'S	156° 31,706'W	12	182	3324	3339	-	-	5,22	33,82	5,29	33,83	
	21:00	56° 23,029'S	156° 35,669'W	12	193	3099	3135	-	-	5,26	33,83	5,25	33,82	
	22:00	56° 35,281'S	156° 40,201'W	12	202	3926	3943	-	-					Crossing station PS75/077 Start Station PS75/077 (MUC)
	22:54,5	56° 46,10'S	156° 46,85'W				4110			5,19	33,82			
	23:00	56° 47,197'S	156° 47,567'W	11	203	4061	4076	-	-					
	23:30	56° 46,114'S	156° 46,750'W	3,2	357	4102	4120	Single	-					
	00:45	56° 46,114'S	156° 46,750'W											



Date 42	Time UTC	Latitude	Longitude	Speed	Course	Depth DFT	Depth dper	Transmission mode	System dupl source	Full hour temp. (air)	Full hour temp. (sea)	Full hour temp. (air) (cont)	Full hour temp. (sea) (cont)	Remarks
02.01	01:45	56°46'135'S	156°46'885'W	4.3	190	4095	4111	Equip	-	5.32	33.83			End Station PS 75/077
02.01	02:00	56°48'084'S	156°48'179'W	9.9	183	4021	4039	"	-	5.28	33.82	5.22	33.83	
	03:00	58°59'54	156°55'22	12.6	199	3789	3801	"	"	5.25	33.82	5.09	33.85	
	04:00	57°10'15	157°7'80	11.9	200	3822	3822	"	"	5.22	33.81	4.96	33.83	4:34 automatic window change
	5:00	57°21'802'S	157°9'042'W	13	202	3838	3870	-	-					
	6:00	57°33'266'S	157°16'262'W	13.5	196	3835	3847	-	-	5.97	33.82	4.06	33.81	
	7:00	57°45'298>	157°23'828'W	12.9	198	3757	4085	-	-			3.8	33.85	
	8:00	57°57'138'S	157°31'51'W	12.5	202	3435	3521	-	-					
	9:00	58°8'826'S	157°38'810'W	11.9	199	3489	3496	-	-					
	10:00	58°20'585'S	157°46'358'W	13.5	198	3901	3932	-	-					
	11:00	58°32'401'S	157°53'974'W	12.2	198	3587	3608	-	-					
	12:00	58°44'249'S	158°1'680'W	12.7	198	3735	3749	-	-					
	13:00	58°56'291'S	158°9'549'W	13.3	197	3746	3768	-	-					
	14:00	59°8'227'S	158°17'380'W	12.9	196	4420	4576	-	-					14:42 automatic switched off
	15:00	59°19'539'S	158°24'81'W	12.6	201	3563	3579	-	-	2.72	33.82	2.65	33.81	
	16:00	59°31'478'S	158°32'494'W	11.0	196	3111	3934	-	-	3.00	33.83	2.73	33.84	
	17:00	59°43'502	158°40'999	11.6	202	3727	3841	-	-	2.42	33.82	2.68	33.80	
	18:00	59°54'614	158°48'241	12.2	202	3271	3293	-	-	2.18	33.83	2.46	33.81	
	19:00	60°5'643'S	158°55'730'W	12.5	197	3751	3605	-	-	2.93	33.73	1.73	33.73	
	20:00	60°16'515'S	159°3'092'W	12.5	199	3595	3608	-	-	1.65	33.72	1.57	33.73	
	21:00	60°27'363'S	159°10'518'W	12.5	193	3596	3603	-	-	1.39	33.74	1.17	33.67	
	22:00	60°38'455'S	159°18'128'W	12.8	197	3407	3421	-	-	1.12	33.75	1.13	33.74	
	23:00	60°48'648'S	159°25'581'W	6.7	42	3256	3235	-	-	1.04	33.77	0.92	33.76	
3.1.	0:00	60°58'681'S	159°32'151'W	11.7	199	3529	3521	-	-	1.02	33.77			
	0:22	61°3'00'S	159°35'20'W				3354							Crossing Station PS 75/078
	0:35	61°2'999'S	159°35'187'W	0.7	192	3344	3352	Single	-					Start Station PS 75/078 (SL, KG, MUC)
	6:35	61°2'892'S	159°35'074'W	0.8	196	3345	3358	Single	-					End Station PS 75/078 → switched on automatic (ABWetten)
	16:36	60°44'483'S	159°41'035'W	8.4	22	3137	3129	Equip	-	1.11	33.73			End "ABWetten", switch to Equidistant Transmission
	17:00	60°40'996'S	159°37'896'W	9.1	21	3288	3294	-	-	1.05	33.74	1.14	33.74	Switched off automatic
	18:00	60°53'840'S	159°50'772'W	9.6	50	3658	3678	-	-	1.25	33.73	1.22	33.73	
	19:00	60°28'395'S	159°19'774'W	8.1	15.9	3836	3852	-	-	1.31	33.74	1.51	33.72	19:41 Crossing PAR-8-D (3754m)
	20:00	60°21'586'S	159°15'132'W	7.3	17.5	3705	3792	-	-	1.59	33.72	1.67	33.72	
	21:00	60°13'778'S	159°9'767'W	9.2	23.0	3517	3556	-	-	1.66	33.74	1.63	33.73	
	22:00	60°5'940'S	159°4'023'W	8.4	20.7	3828	3918	-	-	1.83	33.73	2.27	33.79	
	23:00	59°58'008'S	158°59'035'W	8.6	27.1	3607	3608	-	-	2.32	33.78	2.29	33.78	
	24:00	59°49'778'S	158°53'445'W	9.3	13.4	3998	4128	-	-	2.50	33.80	2.59	33.83	
4.1.	1:00	59°41'315'S	158°47'675'W	9.2	18.8	3800	3828	-	-					



Date	Time	Latitude	Longitude	Speed	Course	Depth	Depth	Transmission	System depth	Full hour	Half hour	Remarks
44	UTC					PHF	other	made	source	temp	salin	
4.1.	2:00	59° 33, 614'S	158° 41, 578' W	8,9	14	3689	3728	Equi	04W			
	3:00	59° 25, 429'S	158° 37, 055' W	8,6	16	3937	3757	-	-			
	4:00	59° 17, 061'S	158° 31, 298' W	9,0	18	3490	3508	-	-			
	5:00	8, 764'S	25, 956' W	8,9	20	3770	3787	"	"	2,31°	33,8	5:31 Crossing PAR-8-C Point
	6:00	59° 04, 53'S	158° 20, 483' W	8,9	20,9	3836	3870	-	-	2,6	33,85	Nice sediments ~ 7:30h!
	7:00	58° 52, 114'S	158° 14, 95' W	8,2	20	3627	3662	-	-	2,63	33,85	
	8:00	58° 43, 94'S	158° 9, 630' W	10,4	19	3190	3839	-	-	2,62	33,83	
	9:00	58° 34, 366'S	158° 3, 249' W	10,4	20	3705	3709	-	-	2,25	33,80	2,52 33,82
	10:00	58° 24, 028'S	157° 56, 609' W	10,7	18,2	3687	3716	-	-	2,80	33,82	2,82 33,84
	11:00	58° 13, 645'S	157° 49, 902' W	11,3	20,5	4238,9	4251	-	-	2,79	33,83	3,10 33,83
	12:00	58° 3, 144'S	157° 43, 135' W	11,7	18	4292	4321	-	-	3,08	33,83	3,16 33,83
	13:00	57° 52, 455'S	157° 36, 271' W	11,2	20	3858	3892	-	-	3,20	33,83	3,25 33,83
	14:00	57° 41, 488'S	157° 29, 252' W	11,1	18,5	3706	3743	"	"	3,69	33,81	3,37 33,80
	15:00	57° 30, 894'S	157° 22, 577' W	12	22,2	3806	3811	"	"	3,51	33,80	3,35 33,80
	15:47	57° 30, 184'S	157° 14, 228	0,9	47	3738	3812	Single	-			
	20:45	57° 30, 598'S	157° 14, 174	4,1	263	5800	3823	Equi	-			
	21:00	57° 33, 303'S	157° 15, 015' W	11,3	186	3581	3828	"	"	4,08	33,8	
	22:00	57° 44, 481'S	157° 17, 712' W	11,4	190	3496	3493	-	-			
	23:00	57° 55, 610'S	157° 21, 755' W	10,6	210	3656	3672	-	-			
5.1.	0:00	58° 49, 01'S	157° 31, 937' W	10,7	212	3601	3602	-	-			
	0:37	58° 10, 641'S	157° 38, 22' W				3882	-	-			Crossing Station PS75/080 (KOL, MUC)
	1:00	58° 10, 641'S	157° 40, 205' W	9,6	40	3830	3864	-	-			
	1:17	58° 11, 370'S	157° 37, 872' W	3,6	348	3886	3917	Single	-			Start Station PS75/080
	6:27	58° 10, 676'S	157° 38, 366	2,0	254	3774	3887	Equi	-			3:37 - 4:12 Crash Parastore
	7:00	58° 14, 681'S	157° 42, 135' W	5,1	308	3839	3872	-	-			End Station PS75/080
5.1.	7:00	58° 14, 681'S	157° 42, 135' W				3872	-	-			Crossing Station PS75/081
2.1.	9:29	58° 14, 48'S	157° 42, 43' W				3883	-	-			Start Station PS75/081 (KOL)
5.1.	7:10	58° 14, 488'S	157° 42, 438' W	0,8	198	3868	3883	Single	-			Ende der Station PS75/081
	10:18	15, 070'S	42, 756' W	6,0	207	3826	3877	Quasi Equi	"			
	11:00	58° 21, 791'S	157° 48, 400' W	10,7	202	3783	3773	-	-	2,44	33,7	2,3 33,76
	12:00	58° 31, 551'S	157° 56, 364' W	10,6	202	3617	3612	-	-	2,42	33,7	2,43 33,71
	13:00	58° 41, 455'S	158° 4, 476' W	10,6	206	3745	3759	-	-	2,57	33,8	
	14:00	58° 51, 239'S	158° 12, 520' W	10,9	200	3601	3604	-	-			
5.1.	15:00	59° 1, 425'S	158° 20, 968' W	10,9	204	3972	3984	-	-			
4.1.	5:44,5	59° 2, 51'S	158° 21, 83' W				4023	-	-			Crossing Station PS75/082
5.1.	15:15	59° 2, 495'S	158° 21, 805' W	0,9	121	4000	4021	Single	-			Start Station PS75/082 (KOL, MUC)



Date	Time UTC	Latitude	Longitude	Speed	Course	Depth PHF	Depth other	Transmission mode	Splice depth source
5.1.	20:23	059° 27.55'S	158° 21.63'W	4.8	208	4021.6	4021.0	Egen	other
	21:00	59° 8.325'S	158° 25.107'W	10.4	200	3753	3773	-	-
	22:00	59° 17.812'S	158° 30.600'W	1.6	220	3321	3332	-	-
6.1.	7:30	59° 24.887'S	158° 34.795'W	1.1	196	4115	4115	-	-
	0:00	59° 35.512'S	158° 40.366'W	11.2	196	3641	3663	-	-
	1:00	59° 45.013'S	158° 46.355'W	11.3	196	3659	3665	-	-
	2:00	59° 56.655'S	158° 52.403'W	11.2	197	3422	3444	-	-
	3:00	60° 7.53	158° 58.67	11.0	197	3639	3649	-	-
	3:51	60° 16.14	159° 3.60				3607		
	4:00	60° 17.96	159° 4.01	7.3	87	3544	3580		
	4:22	60° 16.12	159° 3.49			3531	3611	single	
	10:11	60° 16.247'S	159° 3.703'W	7.7	197	3558	3604	Egen	-
	11:00	60° 23.887'S	159° 8.799'W	11.0	198	3629	3666	-	-
	12:00	60° 34.290'S	159° 15.757'W	11.2	199	3450	3460	-	-
	13:00	60° 44.961'S	159° 20.007'W	11.0	197	3320	3321	-	-
	14:00	60° 55.195'S	159° 29.944'W	10.7	196	3360	3355	"	"
	14:58	61° 2.847'S	159° 35.123'W	0.6	76	3346	3361	Single	-
17:20	61° 2.984'S	159° 35.219'W	4.4	233	3344	3354	Quasi Equi	"	
18:00	61° 9.137'S	159° 38.877'W	10.9	193	3171	3185	"	"	
19:00	61° 18.986'S	159° 44.691'W	10.0	194	3158	3162	-	-	
20:00	61° 25.424'S	159° 48.535'W	10.5	198	3538	3552	"	"	
21:00	61° 34.888'S	159° 54.034'W	9.7	196	3449	3472	"	"	
22:00	61° 44.694'S	160° 0.084'W	10.2	197	3293	3314	-	-	
23:00	61° 54.690'S	160° 6.109'W	10.8	195	3891	3898	-	-	
23:09:25	61° 56.39'S	160° 7.13'W				3751			
7.1.	0:00	61° 56.432'S	160° 6.869'W	0.9	304	3740	3763	Single	-
	05:22	61° 56.691'S	160° 7.276'W	7.0	205	3597	3767	Quasi Equi	-
	06:00	62° 2.243'S	160° 20.736'W	10	196	2726	2730	"	"
	07:00	62° 11.839'S	160° 16.564'W	10	190	2942	2963	"	"
	08:00	62° 21.660'S	160° 22.611'W	11.4	196	2726	2762	"	"
	09:00	62° 32.614'S	160° 29.339'W	11.5	199	1883	1879	-	-
	10:00	62° 43.398'S	160° 36.071'W	11.2	197	2626	2622	-	-
	11:00	62° 54.401'S	160° 42.923'W	11.5	195	2623	2677	-	-
	12:00	63° 5.220'S	160° 49.709'W	11.5	196	2906	2920	-	-
	13:00	63° 16.556'S	160° 56.273'W	11.0	193	2957	2952	-	-

End Station PS 75/082

2,25°C 33,75 gsu

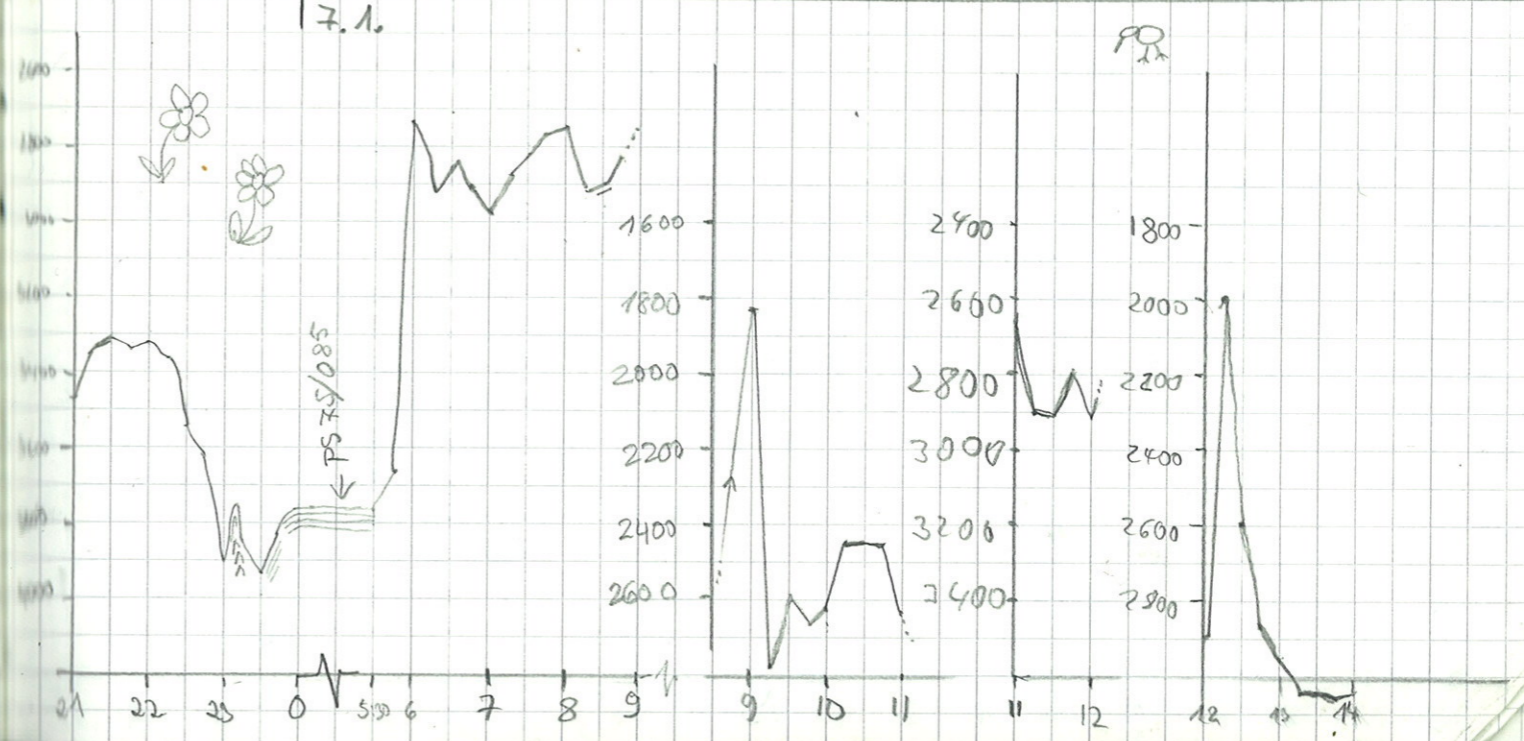
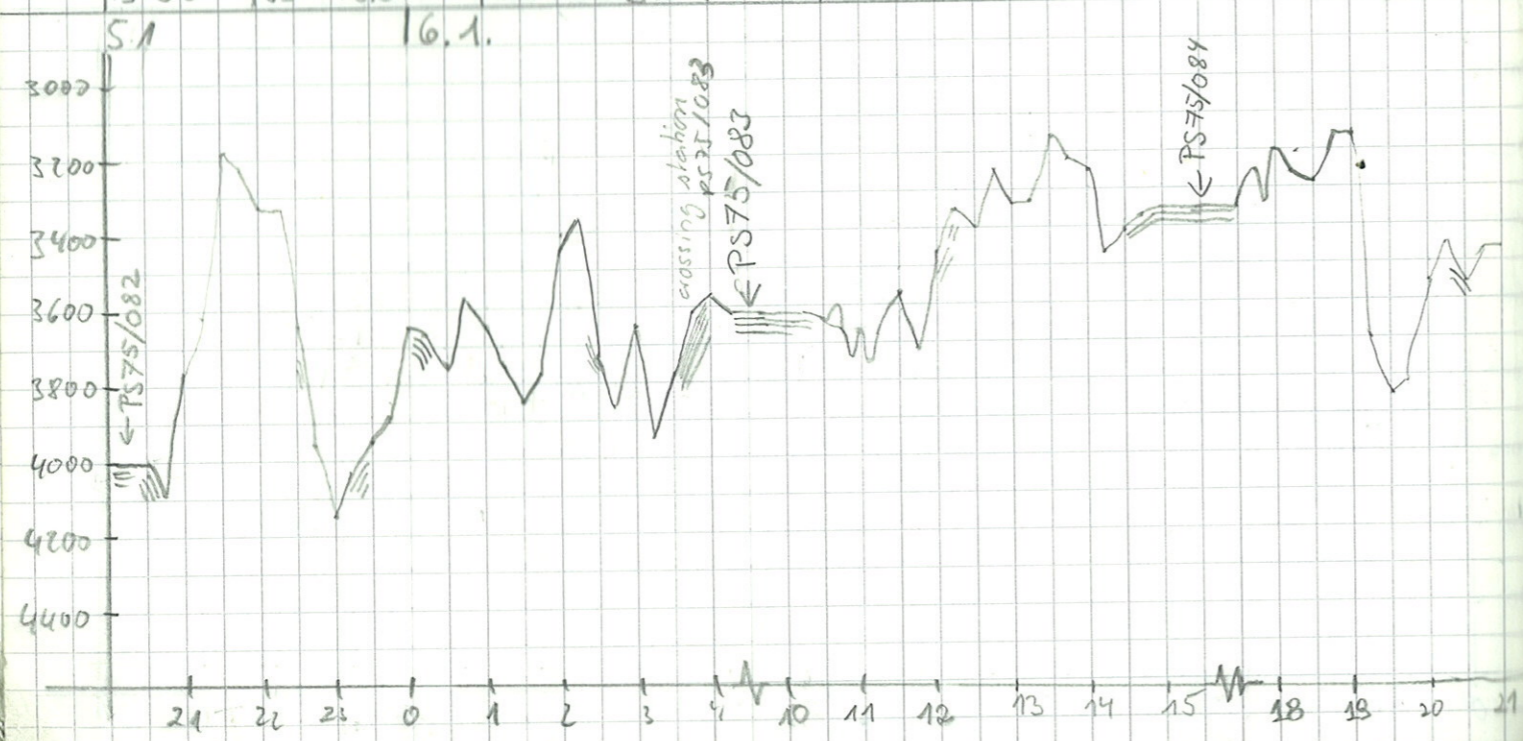
crossing station PS 75/083
181°C 33,72 gsu

Begin Station PS 75/083 (KOL, MUC)
End Station PS 75/083

Start Station PS 75/084 (MUC) Crossing Station PS 75/084: Same as PS 75/078
End of station PS 75/084

Stop because of work on supply boat 19:25 - 19:47

Crossing Station PS 75/085 (KOL, MUC)
Start Station PS 75/085
End Station PS 75/085



Date	Time UTC	Latitude	Longitude	Speed	Course	Depth PHF	Depth other	Transmission mode	System depth source
5.1.	20:23	059° 27.55'S	158° 21.63'W	4.8	208	4021.6	4021.0	Egen	oper
	21:00	59° 8.325'S	158° 25.107'W	10.4	200	3753	3773	-	-
	22:00	59° 17.812'S	158° 30.600'W	1.6	220	3321	3332	-	-
6.1.	7:30	59° 24.887'S	158° 34.795'W	1.1	196	4115	4143	-	-
	0:00	59° 35.512'S	158° 40.366'W	11.2	196	3641	3663	-	-
	1:00	59° 45.013'S	158° 46.355'W	11.3	196	3659	3665	-	-
	2:00	59° 56.655'S	158° 52.403'W	11.2	197	3422	3444	-	-
	3:00	60° 7.53	158° 58.67	11.0	197	3639	3649	-	-
	3:51	60° 16.14	159° 3.60				3607		
	4:00	60° 17.96	159° 4.01	7.3	87	3544	3580		
	4:22	60° 16.12	159° 3.49			3531	3611	single	
	10:11	60° 16.247'S	159° 3.703'W	7.7	197	3558	3604	Egen	-
	11:00	60° 23.887'S	159° 8.799'W	11.0	198	3629	3666	-	-
	12:00	60° 34.290'S	159° 15.757'W	11.2	199	3450	3460	-	-
	13:00	60° 44.961'S	159° 20.007'W	11.0	197	3320	3321	-	-
	14:00	60° 55.195'S	159° 29.944'W	10.7	196	3360	3355	"	"
	14:58	61° 2.847'S	159° 35.123'W	0.6	76	3346	3361	Single	-
17:20	61° 2.984'S	159° 35.249'W	4.4	233	3344	3354	Quasi Equi	"	
18:00	61° 9.137'S	159° 38.877'W	10.9	183	3171	3185	"	"	
19:00	61° 18.988'S	159° 44.091'W	10.0	194	3158	3162	-	-	
20:00	61° 25.424'S	159° 48.535'W	10.5	198	3532	3552	"	"	
21:00	61° 34.688'S	159° 54.044'W	9.7	196	3443	3472	"	"	
22:00	61° 44.694'S	160° 0.084'W	10.2	197	3293	3314	-	-	
23:00	61° 54.690'S	160° 6.109'W	10.8	195	3891	3898	-	-	
23:09.25	61° 56.39'S	160° 7.13'W				3751			
7.1.	0:00	61° 56.432'S	160° 6.869'W	0.9	304	3740	3763	Single	-
	05:22	61° 56.697'S	160° 7.276'W	7.0	205	3597	3767	Quasi Equi	-
	06:00	62° 2.243'S	160° 20.736'W	10	196	2726	2730	"	"
	07:00	62° 11.839'S	160° 16.564'W	10	190	2942	2963	"	"
	08:00	62° 21.660'S	160° 22.611'W	11.4	196	2726	2762	"	"
	09:00	62° 32.614'S	160° 29.339'W	11.5	199	1883	1879	"	"
	10:00	62° 43.398'S	160° 36.071'W	11.2	197	2626	2622	-	-
	11:00	62° 54.401'S	160° 42.923'W	11.5	195	2623	2677	-	-
	12:00	63° 5.220'S	160° 49.709'W	11.5	196	2906	2920	-	-
	13:00	63° 16.556'S	160° 56.273'W	11.0	193	2957	2950	-	-

End Station PS 75/082

2,25°C 33,75 gsw

crossing station PS 75/083
1.81°C 33,72 gsw

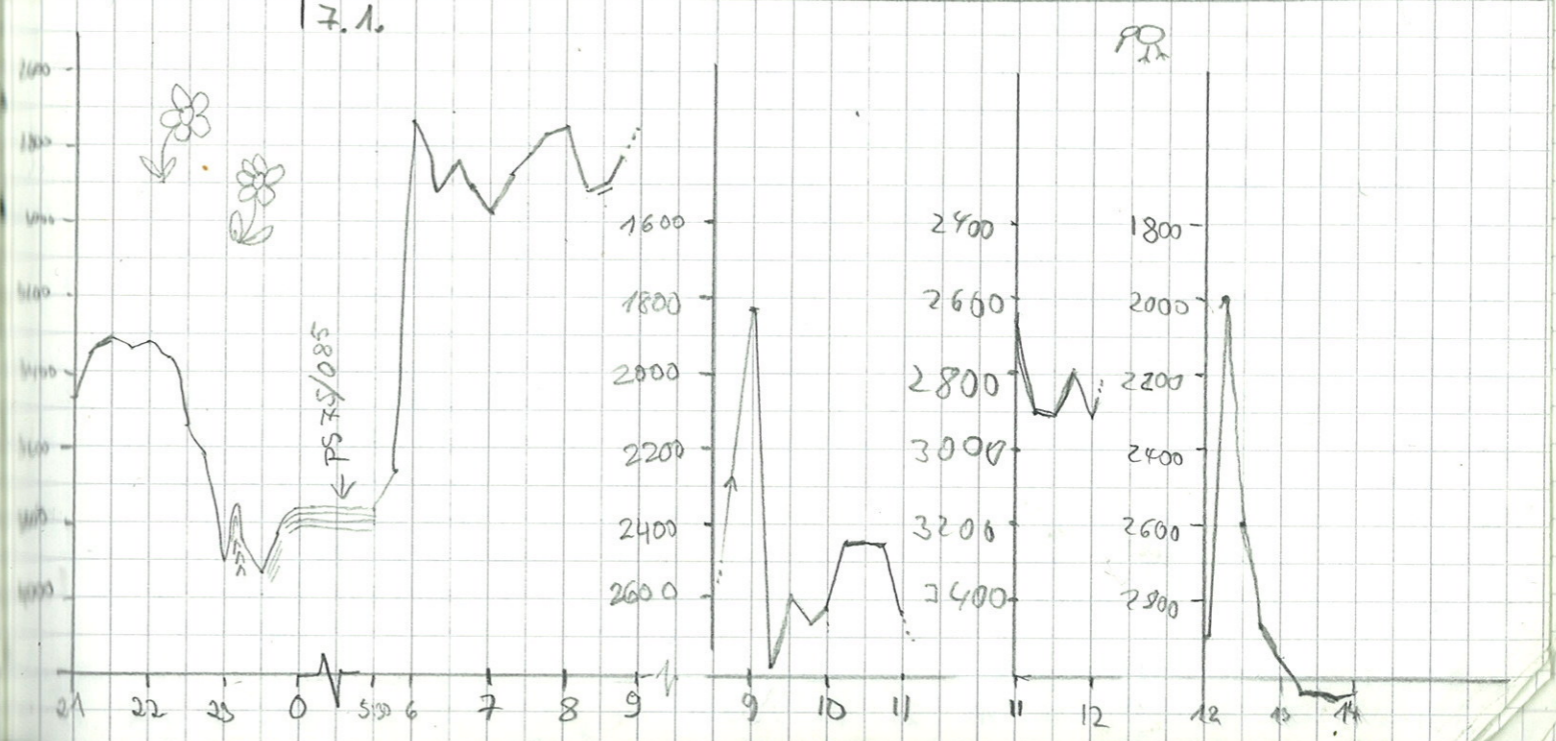
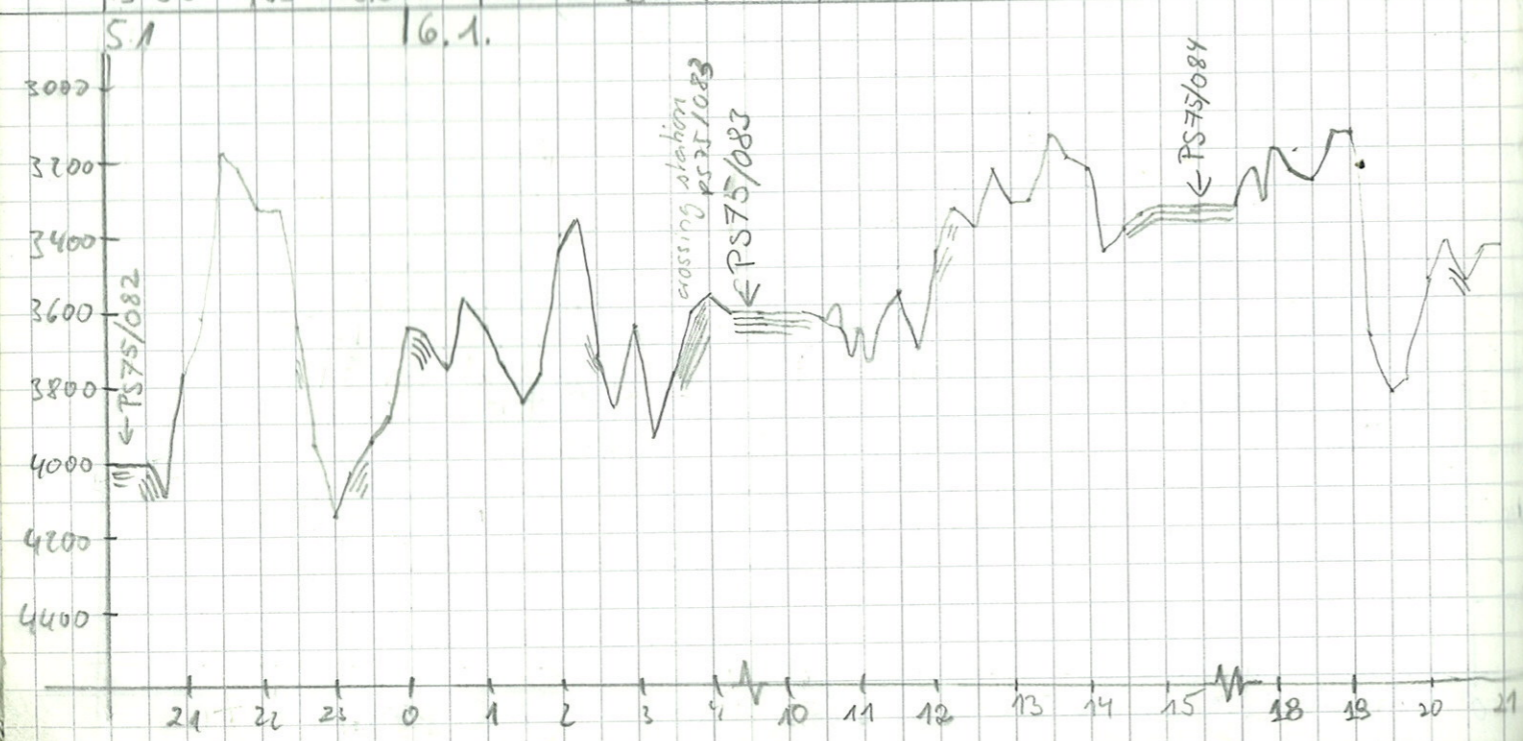
Begin Station PS 75/083 (KOL, MUC)
End Station PS 75/083

Start Station PS 75/084 (MUC)
End of station PS 75/084

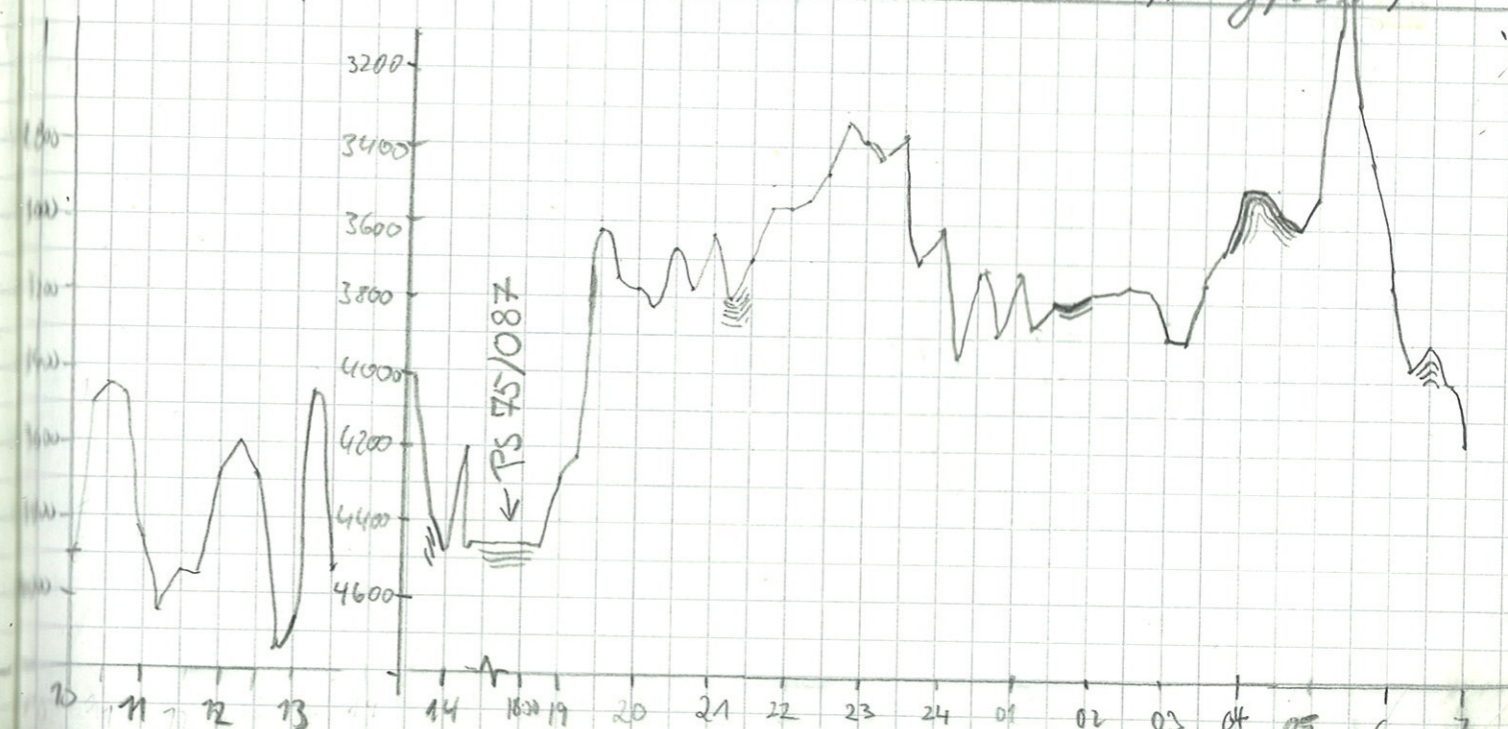
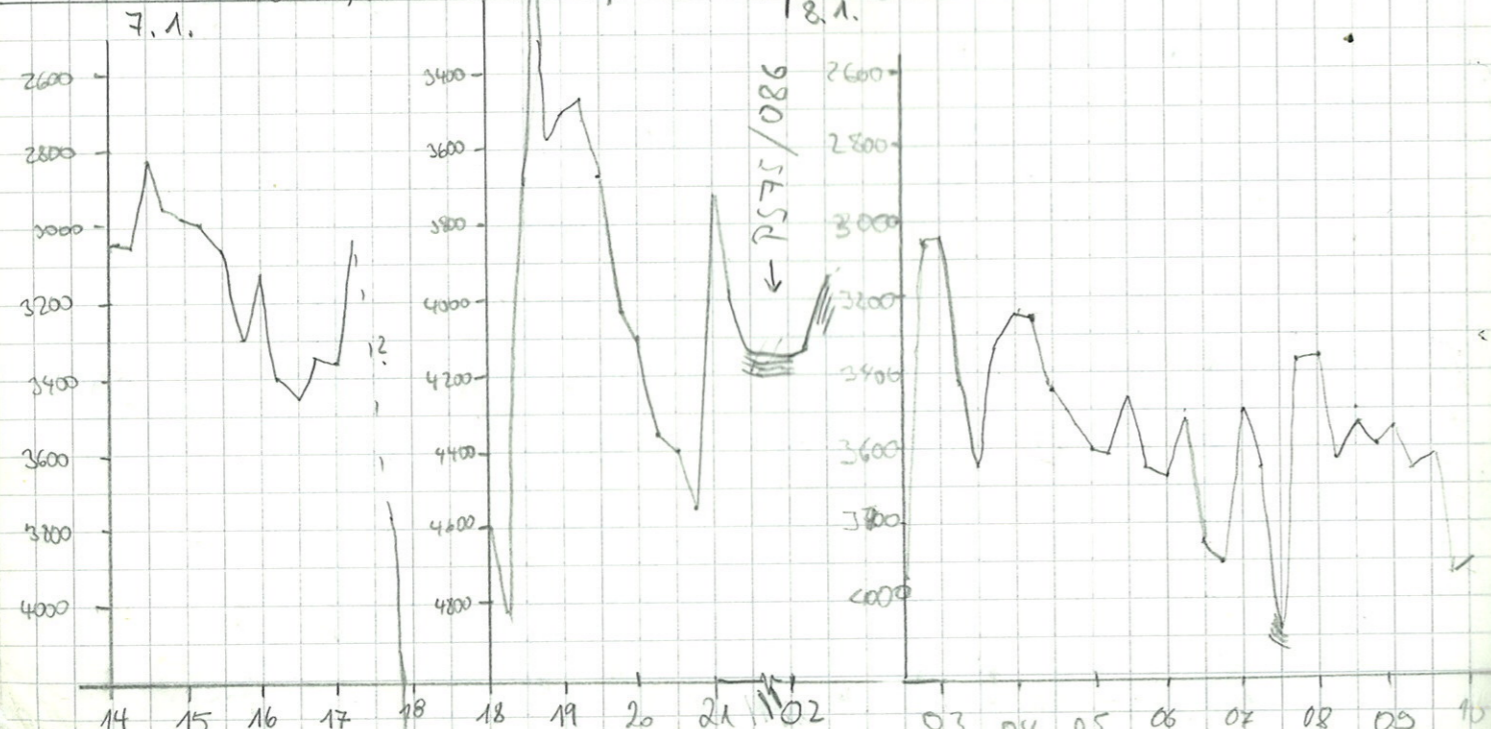
Crossing Station PS 75/084: Same as PS 75/078

Stop because of work on supply boat 19:25 - 19:47

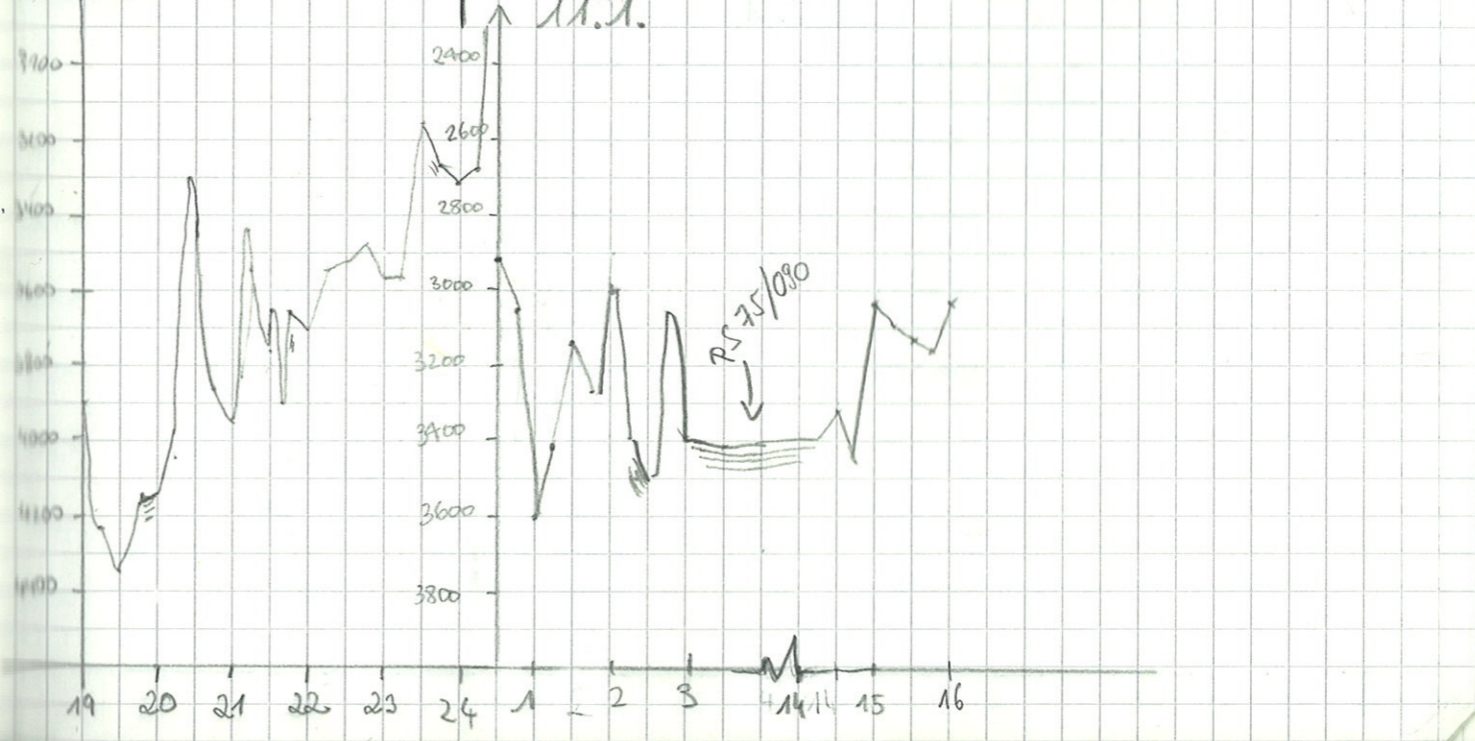
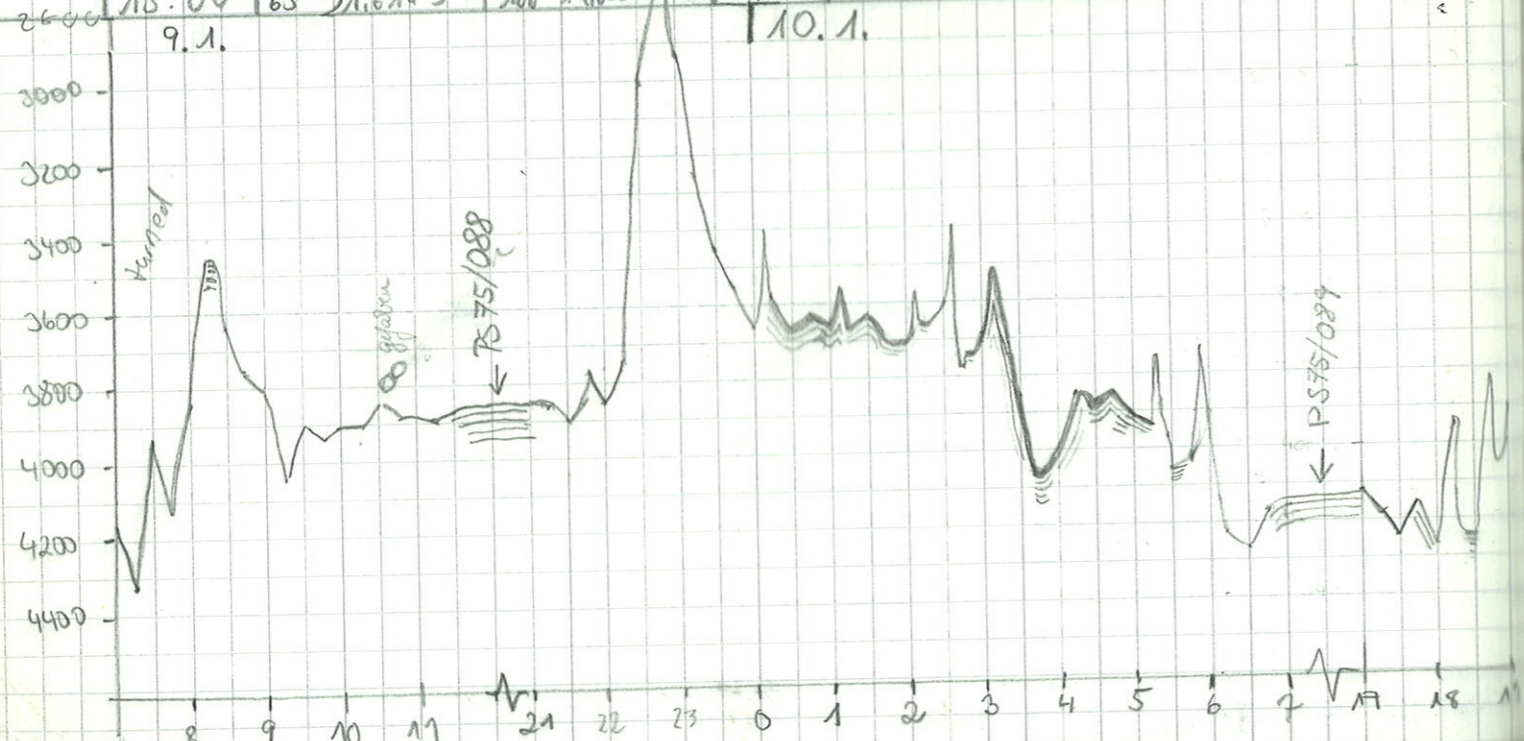
Crossing Station PS 75/085 (KOL, MUC)
Start Station PS 75/085
End Station PS 75/085



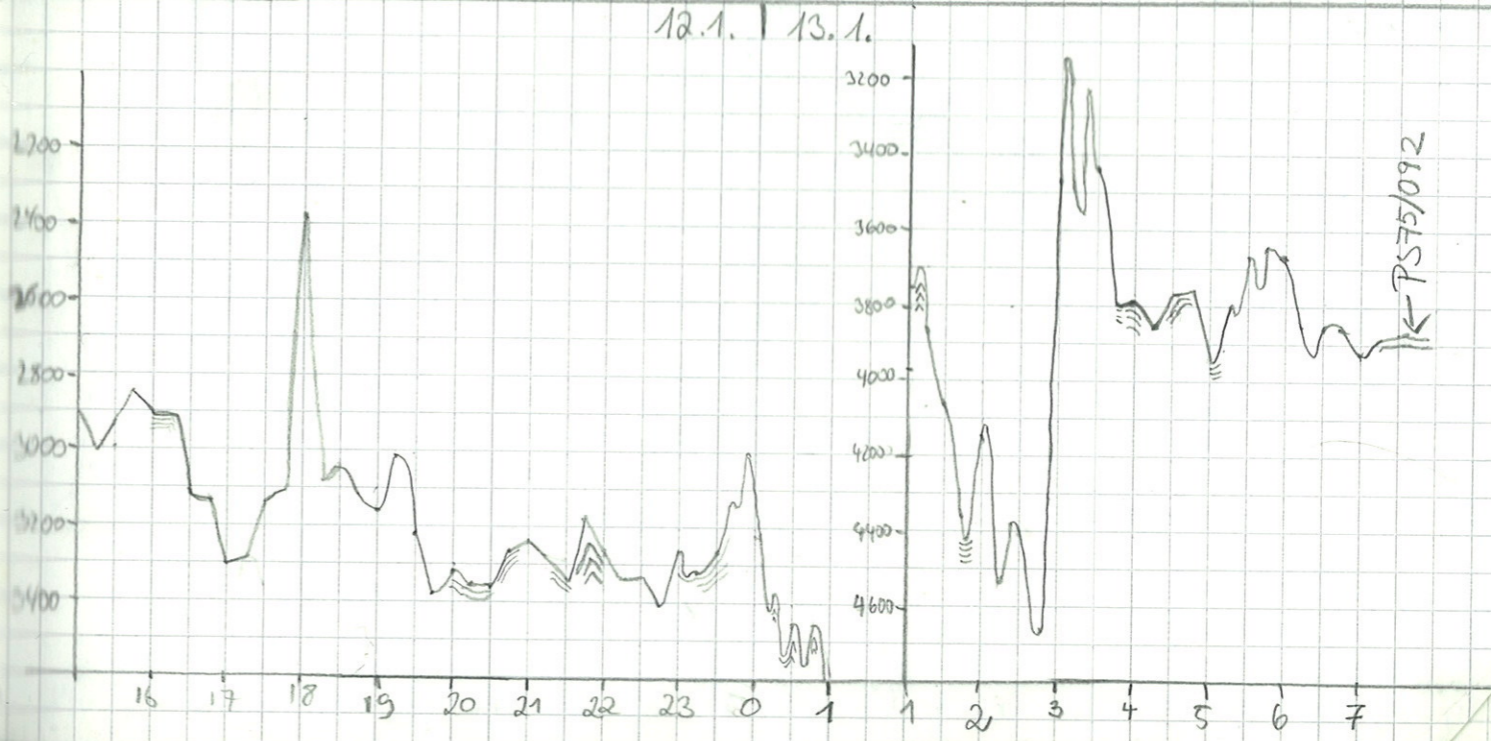
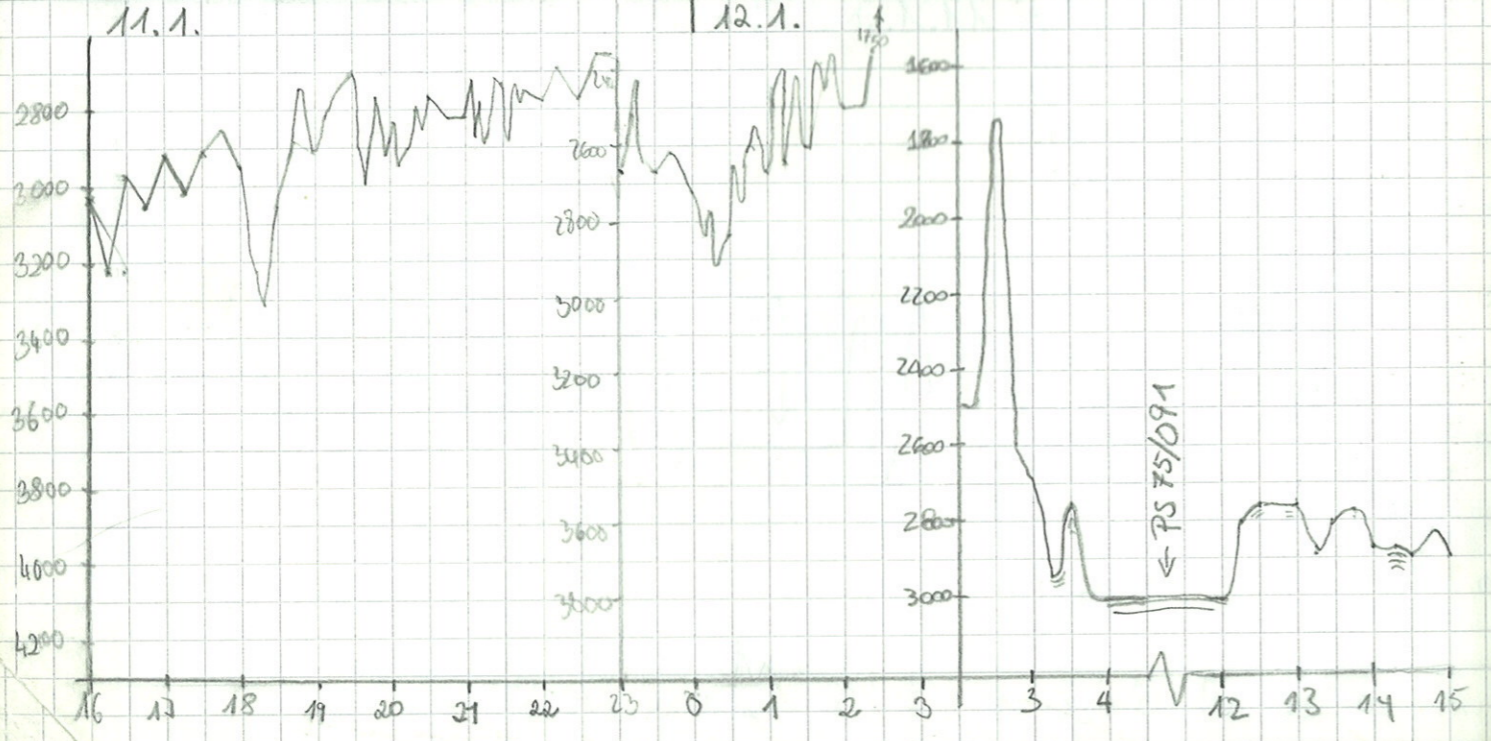
Date 48	Time UTC	Lat/lon	Depth	Speed	Course	Depth PHF	Depth other	Transmission mode	System depth source	Remarks	
7.1.	14:00	63° 27, 150'S	161° 3, 630'W	11,6	193	2994	3030	Equi	other		
	15:00	63° 38, 275'S	161° 10, 714'W	11,8	194	2971	2979	-w	-w		
	16:00	63° 49, 308'S	161° 17, 825'W	11,3	194	3088	3139	-w	-w		
	17:00	63° 59, 843'S	161° 27, 696'W	10,8	197	3349	3369	-w	-w	17:17 reboot computer	
	18:00	64° 10, 120'S	161° 31, 570'W	11,0	198	4592	4606	-w	-w	17:48 system running again	
	19:00	64° 20, 276'S	161° 38, 575'W	10,7	201	3494	3499	-w	-w		
	20:00	64° 30, 289'S	161° 44, 046'W	10,6	192	4091	4100	-w	-w		
	21:00	64° 40, 697'S	161° 52, 641'W	10,7	189	3696	3716	-w	-w		
	21:45	64° 44, 630'S	162° 54, 775'W					Single pulse		21:38 Crossing Station PS75/086 64° 44, 63'S 161° 54, 18'W 4094m	
	8.1.	02:01	64° 44, 697'S	161° 54, 225'W					ausi-Equi		Station: PS75/086 (SL, MUC) Umschalten auf Single pulse 21:50 UTC
		03:00	64° 55, 842'S	162° 0, 409'W	10,6	193	3055	3051	-w	-w	Station: ENDE PS75/086 → " " Reboot-Equi 02:00 UTC
		04:00	65° 3, 836'S	162° 7, 138'W	11,0	194	3240	3243	-w	-w	
		05:00	65° 14, 546'S	162° 14, 390'W	11,2	196	3612	3621	"	"	
		6:00	65° 24, 524'S	162° 22, 237'W	11,1	204	3681	3689	"	"	
		7:00	65° 34, 948'S	162° 29, 177'W	10,6	193	3490	3505	"	"	
8:00		65° 45, 529'S	162° 34, 855'W	10,8	196	3347	3359	"	"		
9:00		65° 55, 170'S	162° 42, 410'W	10,8	195	3535	3543	"	"		
10:00		66° 05, 074'S	162° 49, 333'W	10,5	195	3083	3111	"	"		
11:00		66° 15, 545'S	162° 56, 794'W	10,9	197	2851	2862	-w	-w		
12:00		66° 26, 044'S	163° 4, 172'W	10,9	196	3658	3696	-w	-w		
13:00		66° 36, 286'S	163° 11, 552'W	10,8	197	4011	4030	-w	-w		
14:00		66° 47, 812'S	163° 19, 834'W	10,4	196	4452	4472	-w	-w		
14:06		66° 47, 281'S	163° 19, 481'W					-w	-w	Crossing Station PS75/087	
14:25		66° 47, 368'S	163° 19, 575'W	1,1	38	4425	4443	Single Equi	-w	Start Station PS75/087 (SL, MUC)	
18:40	66° 47, 487'S	163° 19, 641'W	7,0	189	4433	4446	-w	-w	End Station PS75/087		
19:00	66° 50, 876'S	163° 21, 595'W	7,6	187	4266	4290	-w	-w			
20:00	66° 59, 993'S	163° 27, 560'W	10,4	202,6	3771	3795	"	"			
21:00	67° 3, 632'S	163° 34, 637'W	10,3	183	3621	3633	"	"	21:15 potential station		
22:00	67° 13, 736'S	163° 43, 251'W	10,5	196	3556	3563	"	"			
23:00	67° 23, 654'S	163° 50, 599'W	10,2	193	3384	3399	"	"			
9.1.	24:00	67° 33, 618'S	163° 58, 179'W	10,7	193	3800	3817	"	"	00:00 potentielle station	
	01:00	67° 43, 817'S	163° 5, 699'W	10,5	194	3707	3726	-w	-w		
	02:00	68° 0, 180'S	164° 13, 561'W	10,7	195	3779	3784	-w	-w		
	03:00	68° 10, 037'S	164° 21, 060'W	10,3	195	3898	3912	-w	-w	03:00 Sedimente	
	04:00	68° 19, 080'S	164° 28, 577'W	10,1	198	3588	3593	-w	-w		
	05:00	68° 29, 536'S	164° 34, 744'W	10,3	205,1	3512	3528	-w	-w		
6:00	68° 39, 299'S	164° 44, 752'W	10,0	198	3744	3773	-w	-w	(6:32 Crossing PS75/088? (68° 43, 974'S 164° 46, 923'W 3884m) / Waypoint)		



Date 50	Time UTC	Latitude	Longitude	Speed	Course	Depth PHT	Depth other	Transmission mode	System depth source	Remarks
9.1.	7:00	68° 48, 490'S	164° 50, 092' W	10,2	196	4160	4181	-	-	7:50 turning around
	8:00	68° 57, 466'S	165° 0, 325' W	10,3	209	3805	3845	-	-	
	9:00	68° 49, 44'S	165° 3, 85' W	10,4	16,5	4316	4326	"	"	9:40 starting cross profile
	10:00	68° 43, 56'S	164° 50, 28' W	10	111	3882	3900	"	"	(10:08 crossing station PS75/088? / waypoint)
	10:06	68° 43, 83'S	164° 48, 07' W				3875	"	"	crossing station PS75/088!
	11:00	68° 43, 45'S	164° 45, 22' W	6,4	230	3871	3888	"	"	∞
	11:42	68° 43, 78'S	164° 48, 20' W	7,7	156	3859	3876	single Equi	"	Start PS75/088 (CTD, 9M, MUC, 2xPN, SL)
	20:55	68° 43, 800'S	164° 48, 05' W	3,2	245	3858	3876			End Station PS75/088
	21:00	68° 43, 533'S	164° 46, 412' W	7,0	2,1	3663	3862	transmission mode	system depth source	21:55 - 22:18 automatic
	22:00	68° 33, 374'S	164° 52, 044' W	10,6	355	3847	3848	Equi	other	
	22:28	68° 28, 158'S	164° 53, 612' W	10,5	347	3592		-	manual	Switched to manual depth source
	23:00	68° 27, 094'S	164° 57, 651' W	10,6	351	2896	2933	-	other	Switched back to 'other sounding system' as depth source
10.1.	0:00	68° 12, 966'S	165° 2, 308' W	10,2	349	3639	3656	-	-	
	1:00	68° 2, 910'S	165° 6, 798' W	10,0	350	3667	3663	-	-	
	2:00	67° 53, 154'S	165° 11, 183' W	9,9	350	3704	3715	-	-	
	3:00	67° 43, 400'S	165° 15, 602' W	10,2	350	3687	3701	-	-	
	4:00	67° 33, 440'S	165° 19, 080' W	10,3	352	3876	3882	-	-	
	5:00	67° 23, 084'S	165° 25, 169' W	10,4	353	3888	3905	-	-	
	6:00	67° 13, 075'S	165° 28, 940' W	10,6	350	3904	3895	-	-	
	6:42	67° 4, 989'S	165° 32, 461' W				4168	"	"	Crossing Station PS75/089
	7:00	67° 2, 775'S	165° 33, 383' W	10,5	349	4155	4175	-	-	
	7:44	67° 4, 911'S	165° 32, 462' W	0,2	313	4151	4166	Single equi	other	Start Station PS75/089 (CTD, 11M, SL, 2xPN, MUC)
	16:52	67° 4, 950'S	165° 32, 468' W	1,4	312	4151	4169	-	-	End Station PS75/089
	18:00	66° 55, 312'S	165° 35, 73' W	10,9	352	4266	4280	-	-	
	19:00	66° 44, 255'S	165° 38, 596' W	10,9	353	3884	3899	-	-	
	20:00	66° 33, 802'S	165° 41, 688' W	10,9	351	4149	4163	-	-	
	21:00	66° 22, 976'S	165° 44, 835' W	10,8	354	3509	3535	-	-	
	22:00	66° 12, 742'S	165° 47, 473' W	10,9	352	3696	3699	-	-	
	23:00	66° 0, 809'S	165° 51, 248' W	11,7	357	3569	3572	-	-	
11.1.	24:00	65° 44, 666'S	165° 54, 348' W	7,0	353	3247	3322	-	-	
	01:00	65° 33, 311'S	166° 57, 348' W	11,0	351	3582, 1	3604	-	-	
	02:00	65° 28, 737'S	166° 2, 185' W	10,6	323	3038	3042	-	-	
	03:00	65° 24, 858'S	166° 12, 734' W	7,9	142	3547	3561	-	-	
	03:41	65° 24, 603'S	166° 9, 151' W	1,5	248	3523	3532	Single Equi	-	Start Survey for PS75/090
	2:51	65° 24, 671'S	166° 9, 291' W				3532	Equi	-	Start Station PS75/090 (CTD, 11M, KOL, 2xPN, MUC)
	14:00	65° 24, 817'S	166° 10, 989' W	0,01	162,8	3580,0	3546	-	-	Crossing Station PS75/090
	15:00	65° 21, 614'S	166° 14, 652' W	10,4	326,0	3014	3020	-	-	still on station 14:06 end station

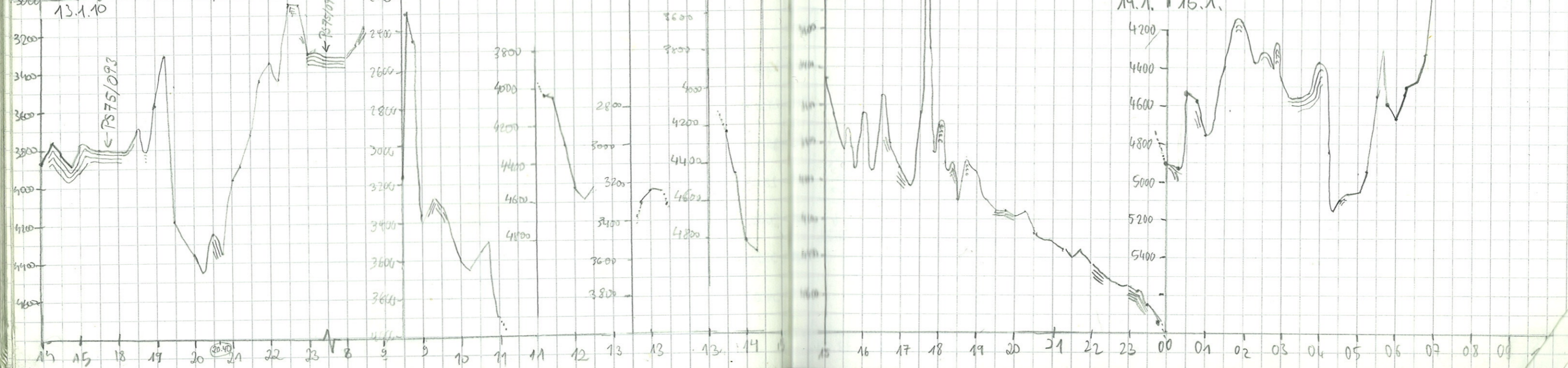


Date	Time UTC	Latitude	Longitude	Speed	Course	Depth PHT	Depth opter	Transmission mode	Spectrum depth source	Full hour		Half hour		Remarks
										Temp	Salin	Temp	Salin	
11.1	16:00	65° 13, 125'S	166° 29, 404'W	10.6	324.6	3016	3024	-equi-	-other-	0,17	33,77	0,02	33,71	
	17:00	65° 4, 842'S	166° 43, 837'W	10,5	324,1	2916	2922	-h-	-h-	0,11	33,68	0,17	33,68	
	18:00	61° 56, 416'S	166° 58, 429'W	10,4	321,5	2931	2943	-h-	-h-	0,12	33,68	0,18	33,69	
	19:00	64° 48, 178'S	167° 12, 578'W	10,4	322,2	2889	2901	-h-	-h-	0,28	33,67	0,18	33,67	
	20:00	64° 39, 928'S	167° 26, 656'W	10,0	324	2855	2866	-h-	-h-	0,22	33,67	0,38	33,67	20:25 - 21:00 stopping for lifeboat - check
	21:00	64° 36, 835'S	167° 31, 836'W	6,4	202	2810	2829	-h-	-h-	0,36	33,67	0,58	33,45	
	22:00	64° 28, 396'S	167° 46, 235'W	11	323	2763	2778	-h-	-h-	0,45	33,47	0,50	33,45	
12.1.	23:00	64° 19, 388'S	168° 01, 516'W	11	321	2655	2667	-h-	-h-	0,51	33,55	0,78	33,53	
	0:00	64° 10, 487'S	168° 16, 468'W	11	322	2714	2711	-h-	-h-	0,74	33,59	0,97	33,40	
	1:00	64° 1, 516'S	168° 31, 454'W	10,9	324	2695	2692	-h-	-h-	0,95	33,39	0,99	33,39	
	2:00	63° 53, 035'S	168° 45, 531'W	10,9	324	2489	2495	-h-	-h-	0,74	33,42	0,78	33,42	
	3:00	63° 44, 162'S	169° 0, 257'W	10,7	323	2697	2737	-h-	-h-	0,77	33,43	0,83	33,37	
	3:49,5	63° 41, 66'S	169° 01, 48'W				3003	-h-	-h-					Crossing Station 75/091
	4:00	63° 41, 488'S	169° 3, 339'W	2,5	229	3002	3018	-h-	-h-	0,84	33,26			
	4:20	63° 41, 702'S	169° 4, 396'W	0,7	168	2989	2999	-h-	-h-					Start Station PS75/091 (CTD, MN, KOL, 2xPN, MUC)
	12:11	63° 41, 719'S	169° 4, 195'W	2,3	136	3003	3009	-h-	-h-	0,31	33,30			Ende Station PS75/091
	13:00	63° 35, 949'S	169° 14, 249'W	10,2	324	2767	2789	-h-	-h-	0,69	33,43	0,71	33,38	
	14:00	63° 28, 036'S	169° 27, 706'W	10	325	2877	2907	-h-	-h-	0,83	33,42			
	15:00	63° 20, 110'S	169° 41, 130'W	10	322	2787	2812	-h-	-h-	1,21	33,33	1,48	33,35	
	16:00	63° 12, 230'S	169° 54, 454'W	10	322	2922	2940	-h-	-h-	1,61	33,40	1,56	33,42	
	16:53	63° 05, 24'S	170° 06, 18'W	9	324	3256	3258	-h-	-h-					Crossing PAR 3A (kurz danach Kursänderung)
	17:00	63° 4, 403'S	170° 06, 188'W	10,9	51,7	3305	3297	-h-	-h-	1,55	33,44	1,58	33,40	
18:00	62° 54, 809'S	169° 58, 215'W	12,9	7,4	2773	2791	-h-	-h-	1,53	33,41	1,46	33,39		
19:00	62° 42, 279'S	169° 55, 551'W	12,1	8,3	3214	3160	-h-	-h-	1,54	33,41				
20:00	62° 29, 588'S	169° 52, 841'W	12,3	8,7	3230	3305	-h-	-h-	1,68	33,33	1,8	33,35		
21:00	62° 17, 601'S	169° 50, 336'W	11,7	6,3	3224	3231	-h-	-h-	1,81	33,45	1,81	33,49		
22:00	62° 5, 744'S	169° 47, 866'W	12,0	6,8	3272	3284	-h-	-h-	1,73	33,45	1,88	33,47		
23:00	61° 53, 810'S	169° 45, 410'W	11,4	8,6	3276	3273	-h-	-h-	1,80	33,51	1,74	33,44		
13.1.	0:00	61° 41, 217'S	169° 42, 821'W	11,9	6,6	3199	3216	-h-	-h-	2,44	33,49	2,30	33,58	
	1:00	61° 29, 241'S	169° 40, 342'W	11,6	6,3	3760	3781	-h-	-h-	2,00	33,56	2,44	33,55	
	2:00	61° 17, 185'S	169° 37, 501'W	12,6	6,7	4141	4150	-h-	-h-	2,46	33,68	2,66	33,67	
	3:00	61° 5, 053'S	169° 35, 462'W	12,6	5,7	3391	3423	-h-	-h-	2,23	33,77	3,23	33,77	
	4:00	60° 52, 750'S	169° 33, 005'W	13,0	7,8	3785	3794	-h-	-h-	3,72	33,73	3,85	33,80	
	5:00	60° 41, 000'S	169° 30, 653'W	10,5	7,6	3930	3935	-h-	-h-	3,98	33,83	3,87	33,82	5:48 ship turning → going back to position at 5:06
	6:00	60° 33, 798'S	169° 30, 728'W	11,2	195	3674	3691	-h-	-h-	3,91	33,83	4,00	33,83	6:28 starting cross profile
6:40,5	60° 40, 05'S	169° 30, 10'W											Crossing Station PS75/092	
7:00	60° 40, 452'S	169° 29, 962'W	4,7	6,8	3902	3922	-h-	-h-	3,18	33,82				



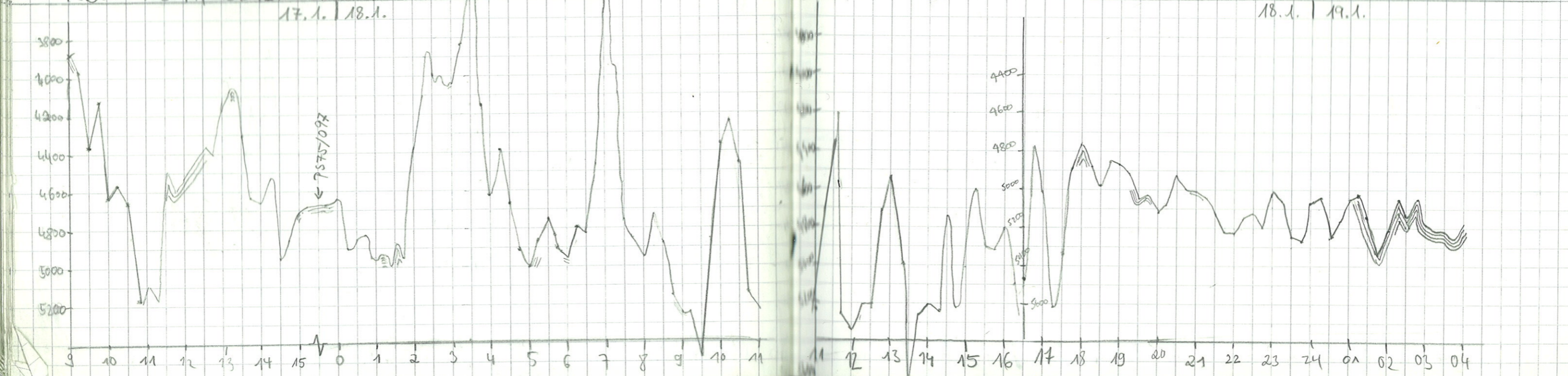
Date	Time UTC	Latitude	Longitude	Speed	Course	Depth PHT	Depth other	Transm mode	System depth source
13.1.	7:12	60° 40,034'S	169° 20,034	0,6	338	3862	3893	Single	other
13.1.	13:50	60° 40,299'S	169° 30,078	7,7	173	3895	3912	Equi	other
	14:00	60° 42,040'S	169° 30,052	10,0	180	3849	3876	"	"
	15:00	60° 52,058'S	169° 31,058	10,7	187	3767	3794	"	"
	4:02	60° 52,34'S	169° 32,92'W				3798		
	15:15	60° 52,394'S	169° 32,757'W	1,6	325	3778	3800	Single	"
	18:15	60° 52,516'S	169° 32,245'W	6,4	179	3761	3777	Equi	"
	19:00	61° 0,870'S	169° 34,660'W	11,8	185,5	3564	3578	"	"
	20:00	61° 12,077'S	169° 36,937'W	12,2	186,2	4346	4370	"	"
	21:00	61° 23,363'S	169° 39,363'W	12,7	183,3	3849	3865	"	"
	22:00	61° 35,673'S	169° 41,727'W	11,6	188,1	3449	3463	"	"
13.1.	23:00	61° 47,58'S	169° 43,868'W	11,8	166,7	3224	3236	"	"
12.1.	23:22	61° 49,37'S	169° 44,49'W				3306		
13.1.	23:50	61° 49,401'S	169° 44,410'W	0,8	43	3296	3309	Single	"
14.1.	8:07	61° 48,985'S	169° 45,045'W	4,5	341	3087	3286	Equi	"
	9:00	61° 41,854'S	169° 45,820'W	8,9	338	3429	3374	"	"
	10:00	61° 32,935'S	169° 56,172'W	9,5	339	3599	3600	"	"
	11:00	61° 29,556'S	170° 2,00'W	9,7	338	3630	3903	"	"
	12:00	61° 15,422'S	170° 8,386'W	9,0	343	4520	4537	"	"
	13:00	61° 6,701'S	170° 11,470'W	9,7	339	3241	3245	"	"
	14:00	60° 58,093'S	170° 20,427'W	8,7	336	4789	4808	"	"
	15:00	60° 49,834'S	170° 26,877'W	8,2	338	3474	3468	"	"
	16:00	60° 41,286'S	170° 32,010'W	8,5	334	3686	3695	"	"
	17:00	60° 33,504'S	170° 37,310'W	10,0	341	3916	3929	"	"
	18:00	60° 24,600'S	170° 43,370'W	9,3	337	3687	3705	"	"
	19:00	60° 15,924'S	170° 49,257'W	9,3	344	3657	3946	"	"
	20:00	60° 6,984'S	170° 55,270'W	9,3	347	4178	4181	"	"
	21:00	59° 58,402'S	171° 1,305'W	7,5	325,5	4351	4351	"	"
	22:00	59° 51,788'S	171° 8,868'W	7,0	324	4431	4461	"	"
	23:00	59° 44,933'S	171° 18,076'W	7,4	334	4565	4552	"	"
15.1.	0:00	59° 38,732'S	171° 26,726'W	9,3	333	4897	4977	"	"
	1:00	59° 31,773'S	171° 34,386'W	7,8	339	4755	4753	"	"
	2:00	59° 24,092'S	171° 42,753'W	8,8	333	4151	4180	"	"
	3:00	59° 17,170'S	171° 50,941'W	8,9	327	4449	4481	"	"
	4:00	59° 10,108'S	171° 59,203'W	7,3	330	4358	4383	"	"
	5:00	59° 3,176'S	172° 7,594'W	9,1	332	5164	5173	"	"
	6:00	58° 55,691'S	172° 16,045'W	8,9	325	4648	4686	"	"

Full hour	Half hour	Remarks	
temp. b	salin. b	temp. b	salin. b
4,00	33,84	Start station PS 75/092 (MUC, 2xPN, CTD, MN)	
4,02	33,71	End station PS 75/092	
4,05	33,81		
3,52	33,79		
		Crossing Station PS 75/093	
		Start station PS 75/093 (KOL)	
		End station PS 75/093	
3,61	33,79		
3,64	33,72		
3,69	33,67		
3,41	33,57		
3,51	33,52		
3,46	33,46		
		Crossing Station PS 75/094	
		Start station PS 75/094 (KOL, MN, MUC, 2xPN, CTD)	
		End station PS 75/094	
2,02	33,43		
2,17	33,39		
2,50	33,53		
2,55	33,77		
2,72	33,70		
2,62	33,65		
3,68	33,85		
3,91	33,81		
4,14	33,82		
4,13	33,84		
4,10	33,84		
4,13	33,84		
4,05	33,83		
3,95	33,83		
4,11	33,84		
4,06	33,82		
4,15	33,82		
4,17	33,82		
4,01	33,83		
4,11	33,83		
4,22	33,84		
4,34	33,85		
4,40	33,86		

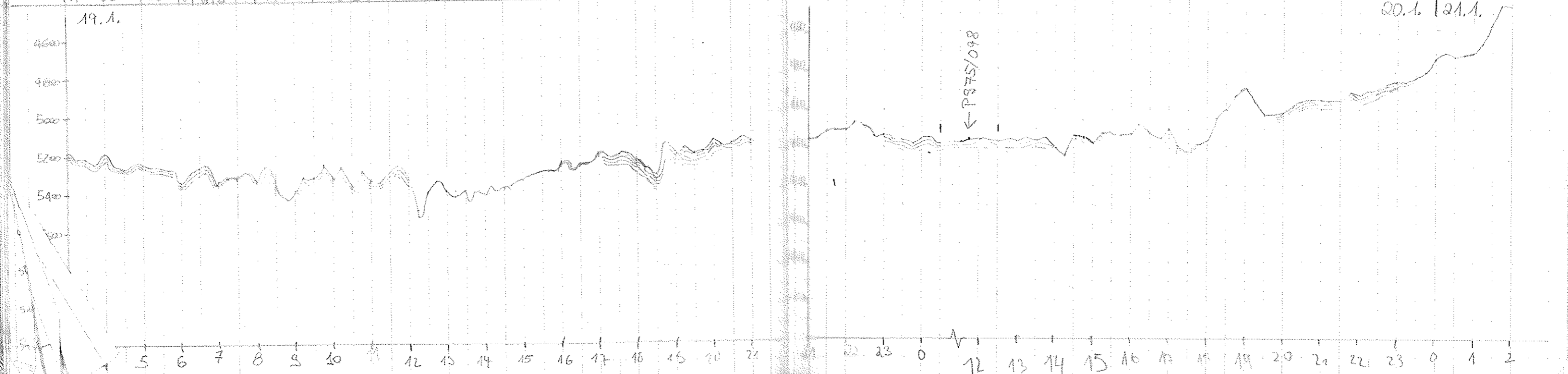


Date 58	Time UTC	Latitude	Longitude	Speed	Course	Depth PHF	Depth other	Transmission mode	System depth source	Full hour		Half hour		Remarks
										Temp. b.	Salin. b.	Temp. b.	Salin. b.	
17.01	10:00	58° 56.026' S	172° 15.340' W	10.5	149	4286	4678	equi	other	4.42	33.85	4.36	33.86	
	11:00	59° 04.999' S	172° 4.922' W	10.8	744	5095	5705	-	-	4.74	33.85	4.07	33.84	
	12:00	59° 13.488' S	177° 55.067' W	10.9	799	4560	4586	-	-	4.02	33.84	3.92	33.83	
	13:00	59° 22.722' S	177° 54.240' W	10.2	144	4770	4753	-	-	3.99	33.83	4.10	33.82	
	14:00	59° 31.679' S	171° 33.703' W	10.5	152	4666	4670	-	-	4.14	33.83	4.08	33.83	
17.1.	15:00	59° 40.077' S	171° 22.349' W	8.8	147	4679	4709	-	-	4.09	33.82			
14.1.	23:25.5	59° 42.037' S	171° 21.451' W				4692	-	-					Crossing Station PS75/097
17.1.	15:20	59° 42.053' S	171° 20.945' W	2.1	270	4526	4688	-	-					Start Station PS75/097 (CTD, 91W, PU, KOL, HUC) [15:44 switched to single pulse]
	23:42	59° 42.092' S	171° 21.714' W	2.1	51	4551	664698	-	-					End Station PS75/097
18.1.	0:00	59° 40.345' S	171° 25.556' W	10.0	325	4580	4655	-	-	4.14	33.83	4.13	33.82	
	1:00	59° 35.625' S	171° 38.503' W	9.2	292	4943	4923	-	-	4.18	33.82	4.12	33.88	
	2:00	59° 27.412' S	171° 50.468' W	10.6	327	4577	4388	-	-	4.06	33.84	4.13	33.83	
	3:00	59° 18.305' S	172° 1.005' W	10.1	300	3593	4026	-	-	4.11	33.83	4.04	33.84	
	4:00	59° 09.554' S	172° 11.093' W	10.2	329	4672	4620	-	-	4.74	33.83	4.22	33.84	
	5:00	59° 0.621' S	172° 21.350' W	10.3	334	4845	4994	-	-	4.24	33.84	4.52	33.85	
	6:00	58° 50.111' S	172° 33.411' W	11	330	4870	4902	-	-	4.74	33.87	4.90	33.68	
	7:00	58° 42.267' S	172° 42.280' W	10.9	300	3605	3648	-	-	4.17	33.86	5.23	33.91	
	8:00	58° 33.607' S	172° 52.115' W	10.1	300	4968	4946	-	-	4.25	33.91	5.30	33.91	
	9:00	58° 24.867' S	173° 1.983' W	9.8	327	5170	5230	-	-	4.31	33.90	5.34	33.92	
	10:00	58° 16.015' S	173° 11.948' W	10.2	333	4339	4353	-	-	4.31	33.91	5.82	33.89	
	11:00	58° 7.149' S	173° 21.881' W	10.2	335	5215	5206	-	-	4.83	33.90	6.17	33.95	
	12:00	57° 58.47	173° 32.79	9.9	318	5431	5320	-	-	6.16	33.99	6.18	33.95	
	13:00	57° 50.69	173° 41.88	9.7	325	4578	4611	-	-	6.25	33.97	6.35	34.01	
	14:00	57° 47.76	173° 52.76	9.7	332	5266	5287	-	-	6.5	34	6.5	34.0	
	15:00	57° 33.23	174° 7.02	10.2	324	4957	5019	-	-			6.38	34.01	
	16:00	57° 24.44	174° 10.458' W	10	331	4776	4801	-	-	6.38	34	6.37	34.01	
	17:00	57° 15.830' S	174° 20.119' W	10.2	325	5046	5017	-	-	6.37	34.04	6.24	33.99	
	18:00	57° 7.163' S	174° 29.511' W	10.1	329	4438	4762	-	-	6.28	33.99	6.31	33.98	
	19:00	56° 58.130' S	174° 39.649' W	10.7	325	4847	4862	-	-	6.39	33.95	6.22	34.0	
	20:00	56° 49.329' S	174° 49.750' W	10.6	325	5098	5115	-	-	6.17	34.04			
	21:00	56° 40.430' S	174° 59.846' W	10.6	330	4646	5005	-	-			7.27	34.11	
	22:00	56° 31.611' S	175° 9.748' W	10.4	328	5192	5213	-	-	7.34	34.12	7.40	34.13	
	23:00	56° 22.382' S	175° 20.270' W	11.3	330	5002	5017	-	-	7.01	34.12	8.35	34.16	
18.1	00:00	56° 13.257' S	175° 30.500' W	10.8	325	5057	5085	-	-	7.01	34.15	7.81	34.15	
	01:00	56° 3.631' S	175° 41.187' W	11.6	325	5032	5062	-	-	7.56	34.12	8.74	34.13	
	02:00	55° 53.877' S	176° 52.762' W	11.4	325	5112	5140	-	-	8.09	34.07	8.69	34.12	
	03:00	55° 44.045' S	176° 03.041' W	11.5	325	5169	5189	-	-	8.70	34.11	9.35	34.22	

Crossing Station PS75/097
 Start Station PS75/097 (CTD, 91W, PU, KOL, HUC) [15:44 switched to single pulse]
 End Station PS75/097



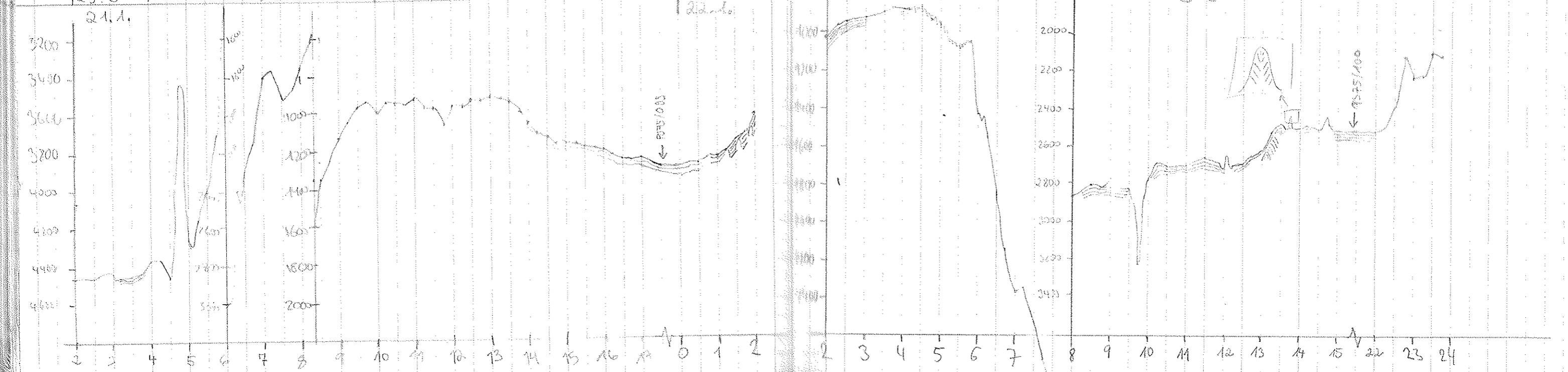
Date 60	Time UTC	Lat/lon	Speed	Course	Depth PHT	Depth other	Transmission mode	System depth source	Full hour		Half hour		Remarks
									Temp	Sal	Temp	Sal	
19.01	4:00	55°34.071'S 176°14.062'W	11.9	329	5163	5185	equi.	other	9.41	34.13	9.60	34.22	
	5:00	55°24.587'S 176°24.475'W	11.5	324	5229	5246	"	"	9.55	34.19	9.47	34.15	
	6:00	55°14.719'S 176°35.264'W	11.1	324	5313	5337	-11-	-11-	9.42	34.04	9.01	34.14	
	7:00	55° 5.584'S 176°45.251'W	11.3	329	5360	5332	-11-	-11-	9.17	34.12	9.44	34.06	
	8:00	54° 3.885'S 176° 5.300'W	11.7	331	5321	5337	"	"	9.80	34.12	9.63	34.20	
	9:00	54°46.072'S 177° 6.378'W	11.2	328	5314	5373	"	"	10.77	34.70	10.20	34.74	
	10:00	54°37.246'S 177°13.920'W	11.0	330	5313	5330	"	"	10.77	34.16	10.03	34.20	
	11:00	54°27.353'S 177°26.659'W	11.7	325	5305	5315	"	"	9.71	34.26	9.56	34.36	
	12:00	54°17.005'S 177°37.422'W	11.5	327	5319	5332	-11-	-11-	9.68	34.36	9.68	34.33	
	13:00	54° 7.467'S 177°47.760'W	11.8	326	5299	5399	-11-	-11-	9.57	34.38	9.89	34.44	
	14:00	52° 57.210'S 177° 58.363'W	11.0	328	5386	5410	-11-	-11-	9.79	34.38	9.87	34.15	
	15:00	53°47.993'S 178° 2.473'W	12.4	328	5330	5352	-11-	-11-	9.60	34.40	9.58	34.10	
	16:00	53°36.110'S 178°20.864'W	11.7	331	5275	5387	-11-	-11-	9.62	34.42	9.39	34.14	
	17:00	53°25.572'S 178°31.302'W	12.2	328	5202	5208	"	"	9.52	34.14	8.42	34.13	
	18:00	53°14.600'S 178°43.384'W	12.6	324	5273	5280	"	"	9.53	33.95	8.64	33.96	
	19:00	53° 5.120'S 178° 53.100'W	12.3	328	5233	5243	"	"	9.24	34.18	9.58	34.21	
	20:00	52° 35.118'S 179° 3.565'W	11.3	330	4826	4840	"	"	9.30	34.26	9.60	34.33	
	21:00	52°14.645'S 179°13.347'W	11.0	330	5227	4862	"	"	9.47	34.26	10.00	34.13	~21:27 - 21:58 stopping for lifeboat - check
	22:00	52° 4.835'S 179°16.324'W	10.4	331	5080	5099	"	"	10.16	34.18	10.18	34.20	~22:00 ship turning around, going back to position at 19:42.5
	23:00	52°45.440'S 179°15.512'W	11.1	148	5208	5140	-11-	-11-	9.78	34.30	9.64	34.34	
20.1.	0:00	52°34.482'S 179°4.221'W	10.9	150	5137	5160	-11-	-11-	9.48	34.25			
19.1.	19:42.5	52°57.952'S 179°0.621'W					-11-	-11-					Crossing Station PS 75/098
20.1.	0:50	52°57.948'S 179°0.821'W	1.8	103	4840	5130	-11-	-11-			9.46	34.23	Start Station PS 75/098
	1:26	52°57.644'S 179°0.145'W	8.0	345	5159	5190	-11-	-11-					End Sta PS 75/098
	13:00	52° 3.581'S 179°2.861'W	12.4	341	5159	5171	-11-	-11-					0:50 → switched to single pulse (CTD, HN, 2x PN, RDC, NUC)
	14:00	52° 4.176'S 179° 7.785'W	11.1	341	5126	5440	-11-	-11-					
	15:00	52° 31.553'S 179°14.998'W	11.2	343	5140	5177	-11-	-11-	9.84	34.32	9.57	34.24	
	16:00	52° 20.978'S 179°10.680'W	10.4	341	5100	5122	-11-	-11-	10.22	34.19			
	17:00	52°10.301'S 179° 6.406'W	10.8	340	5076	5137	-11-	-11-	10.73	34.25	10.38	34.13	
	18:00	52° 0.111'S 179° 3.185'W	10.7	342	5142	5184	-11-	-11-	9.42	34.05	10.16	34.09	
	19:00	51° 44.801'S 179° 3.351'W	10.3	342	4780	4797	-11-	-11-	10.15	34.05	10.07	34.07	
	20:00	51° 38.410'S 179° 4.992'W	10.8	342	4995	5015	-11-	-11-	10.22	34.05	10.10	34.09	
	21:00	51° 28.363'S 179° 4.886'W	11.7	337	4975	4936	-11-	-11-	9.21	34.04	10.22	34.05	
	22:00	51° 18.285'S 179° 5.045'W	11.2	345	4870	4973	-11-	-11-	10.27	34.05	10.23	34.06	
	23:00	51° 7.903'S 179° 5.645'W	11.2	341	4844	4865	-11-	-11-	10.47	34.07	10.53	34.03	
21.1.	0:00	50° 57.140'S 179° 5.807'E	11.1	342	4670	4720	-11-	-11-	9.58	34.08	10.44	33.98	23:04 Crossing longitude 180° E
	1:00	50° 46.646'S 179° 4.363'E	10.9	345	4685	4701	-11-	-11-	10.60	34.00	10.35	34.02	



Date	Time UTC	Lat	Long	Speed	Course	Depth DPT	Depth DPT	Transmission mode	System depth	Full hour	Full hour	Remarks	
62	UTC					DPT	DPT			temp.	sal.		
21.1.	2:00	50° 36, 258' S	179° 43, 946' E	10, 6	339	4317	4459	Equi	Other	10, 50	34, 12	10, 20	33, 99
	3:00	50° 26, 022' S	179° 38, 616' E	10, 6	344	4404	4420	- -	- -	10, 93	34, 07	10, 14	34, 17
	4:00	50° 15, 623' S	179° 33, 278' E	11, 1	343	4379	4397	- -	- -	10, 20	34, 13	10, 05	34, 21
	5:00	50° 5, 000' S	179° 27, 796' E	11, 2	342	4271	4271	- -	- -	9, 97	34, 26	9, 99	34, 18
	6:00	49° 54, 602' S	179° 22, 500' E	10, 9	342	3055	3064	- -	- -	10, 5	34, 2	10, 17	34, 23
	7:00	49° 43, 960' S	179° 17, 057' E	10, 9	340	1803	1803	- -	- -	10, 37	34, 18	10, 59	34, 21
	8:00	49° 33, 590' S	179° 11, 805' E	11	341	1754	1760	- -	- -	10, 45	34, 21	10, 18	34, 18
	9:00	49° 25, 103' S	179° 0, 808' E	11, 4	343	1416, 6	1422	- -	- -	10, 18	34, 18	10, 01	34, 16
	10:00	49° 17, 004' S	178° 46, 461' E	11, 4	346	1008, 8	1014	- -	- -	10, 97	34, 20	10, 50	34, 19
	11:00	49° 9, 160' S	178° 36, 244' E	11, 8	344	939	939	- -	- -	10, 12	34, 16	10, 25	34, 15
	12:00	49° 07, 221' S	178° 27, 110' E	11, 11	341	892	891	- -	- -	10, 40	34, 15	10, 73	34, 19
	13:00	49° 02, 723' S	178° 17, 453' E	11, 6	346	835	832	- -	- -	10, 28	34, 19	10, 72	34, 10
	14:00	48° 54, 101' S	177° 59, 057' E	11, 7	345	8033	8025	- -	- -	10, 20	34, 21	10, 78	34, 17
	15:00	48° 46, 571' S	177° 47, 801' E	11, 5	340	7774	7773	- -	- -	10, 81	34, 20	10, 61	34, 22
	16:00	48° 37, 233' S	177° 34, 288' E	11, 7	347	1205	1209	- -	- -	11, 50	34, 13	10, 60	34, 22
	17:00	48° 29, 861' S	177° 22, 305' E	11, 2	344	1264	1267	- -	- -	10, 67	34, 21	10, 70	34, 16
	17:30	48° 15, 328' S	177° 16, 441' E	6, 1	326	1271	1282	Single	- -	10, 39	34, 17	10, 87	34, 16
	23:55	48° 15, 722' S	177° 16, 326' E	5, 4	108	1276	1280	Equi	- -	10, 44	34, 18	10, 31	34, 19
22.01	01:00	48° 4, 711' S	177° 20, 473' E	11, 6	13	1261	1267	- -	- -	10, 47	34, 19	10, 74	34, 19
	02:00	47° 53, 910' S	177° 23, 531' E	10, 9	73, 9	1078	7073	- -	- -	10, 72	34, 19	10, 74	34, 19
	03:00	47° 43, 750' S	177° 27, 062' E	10, 0	12, 0	975	920	- -	- -	10, 72	34, 19	10, 55	34, 18
	4:00	47° 32, 363' S	177° 35, 512' E	11, 3	13, 2	876	880	- -	- -	10, 50	34, 19	10, 34	34, 20
	5:00	47° 21, 124' S	177° 32, 478' E	11, 5	357	969	974	- -	- -	11, 46	34, 19	10, 37	34, 20
	6:00	47° 9, 780' S	177° 30, 276' E	11, 7	355	1408	1445	- -	- -	11, 31	34, 18	10, 46	34, 17
	7:00	46° 58, 560' S	177° 30, 057' E	11, 1	356	2380	2384	- -	- -	11, 18	34, 19	10, 60	34, 17
	8:00	46° 46, 896' S	177° 28, 856' E	11, 4	356	2858	2863	- -	- -	11, 59	34, 20	10, 70	34, 18
	9:00	46° 35, 472' S	177° 27, 675' E	10, 7	355	2817	2815	- -	- -	10, 79	34, 18	10, 51	34, 19
	10:00	46° 25, 490' S	177° 26, 592' E	11, 0	356	2779	2753	- -	- -	11, 61	34, 18	10, 00	34, 18
	11:00	46° 14, 849' S	177° 25, 453' E	10, 8	355	2689	2676	- -	- -	10, 50	34, 14	10, 54	34, 21
	12:00	46° 3, 841' S	177° 24, 156' E	10, 9	355	2703	2714	- -	- -	10, 33	34, 19	10, 55	34, 20
	13:00	45° 53, 188' S	177° 22, 873' E	10, 8	345	2599	2606	- -	- -	10, 38	34, 19	10, 52	34, 21
	14:00	45° 45, 133' S	177° 16, 031' E	11, 1	268	2488	2517	- -	- -	10, 5	34, 20		
	14:27	45° 45, 40' S	177° 08, 94' E		118	2509	2518	Single	- -	10, 89	34, 20	10, 65	34, 21
	15:00	45° 45, 236' S	177° 8, 581' E	3, 3	328	2511	2518	Equi	- -	10, 68	34, 20	10, 49	34, 20
	22:05	45° 45, 406' S	177° 8, 877' E	0, 7	328	2511	2518	- -	- -				
	23:05	45° 45, 940' S	177° 55, 000' E	10, 0	268	2225	2228	- -	- -				

Start Station PS751099 (17:35)
 End Station PS751099
 048° 15.70 S / 177° 16.37 E [Station coord.]
 Single avg

12:53 Crossing Waypoint NZ 2B
 13:45 Crossing Waypoint NZ 2C
 Crossing Station PS75/100
 Start Station PS75/100 (HUC, PN, KOL, 210, 11N)
 End Station PS75/100
 23:50 switching off ptychousp control → window problem of ptychousp
 01:30 System running again



Date 64	Time UTC	Latitude	Longitude	Speed	Course	Depth PHT	Depth oPHT	Trans- mit	System mode	Full hour		Rally hour		Remarks
										Temp	Salinity	Temp	Salinity	
23.1.	1:00	45° 46, 929'S	176° 20, 452'E	11,2	266	2014	2020	Equi	other	13,10	34,73	12,09	34,15	
	2:00	45° 47, 524'S	176° 13, 591'E	10,8	267	1885	1890	- -	- -	12,95	34,44	12,91	34,17	
	3:00	45° 48, 144'S	175° 57, 250'E	11,4	270	1800	1807	- -	- -	11,81	34,18	12,84	34,51	
	3:19,5	45° 48, 33'S	175° 52, 64'E				1787	Single	"	12,84	34,19			crossing station PS 75/101 ; turn (KOL, MUC)
	3:48	45° 48, 359'S	175° 52, 609'E	0,3	177	1784	1789	Equi	- -	12,87	34,19	12,87	34,41	Start Station PS 75/101
	6:30	45° 48, 033'S	175° 52, 088'E	7,6	326	1782	1782	- -	- -	12,87	34,15	12,84	34,20	End station PS 75/101
	7:00	45° 44, 174'S	175° 47, 213'E	11,1	316	1685	1690	- -	- -					Crossing Station PS 75/102
	7:22	45° 41, 19'S	175° 43, 29'E				1654	Equi	- -	11,76	34,20			
	8:00	45° 37, 657'S	175° 40, 265'E	11,3	157	1540	1545	Single	- -			12,80	34,20	Start Station PS 75/102 (KOL)
	8:30	45° 41, 153'S	175° 43, 251'E	1,4	177	1628	1632	Equi	- -	12,87	34,20			End Station PS 75/102
	10:10	45° 41, 115'S	175° 43, 242'E	5,6	286	1628	1633	- -	- -			12,64	34,19	11:28 Start slowing down
	11:00	45° 34, 652'S	175° 31, 544'E	11,1	314	1457	1462	Single	- -			12,40	34,21	Start Station PS 75/103 (KOL)
	11:36	45° 30, 842'S	175° 29, 815'E	0,4	77,0	1597	1400	Equi	- -	12,64	34,17	12,23	34,22	End Station PS 75/103
	13:00	45° 31, 110'S	175° 30, 010'E	5,7	287	1597	1400	- -	- -	12,29	34,21	11,90	34,21	
	14:28	45° 27, 787'S	175° 29, 172'E	10,8	316	1179	1182	- -	- -	11,81	34,20	12,02	34,16	
	15:00	45° 14, 827'S	175° 27, 744'E	10,7	320	1234	1237	- -	- -	11,75	34,20	12,04	34,22	
	16:00	45° 6, 840'S	174° 58, 348'E	10,6	316	1151	1155	- -	- -	11,70	34,12	12,04	34,21	17:15 switched to single pulse
	17:00	44° 59, 112'S	174° 42, 283'E	10,7	315	1020	1026	Single	- -	12,01	34,20	11,72	34,22	
18:00	44° 50, 874'S	174° 37, 602'E	11,1	318	897	901	- -	- -					Crossing Station PS 75/104 (KOL, MUC, CTD, JAPN, MN)	
18:34,5	44° 46, 16'S	174° 34, 54'E				839	- -	- -					Start Station PS 75/104	
18:54	44° 46, 002'S	174° 31, 507'E	2,1	180	844	844	Equi	- -	12,46	34,73	12,24	34,27	End Station PS 75/104	
23.1.18	44° 46, 370'S	174° 32, 277'E	7,9	352	874	874	- -	- -	12,32	34,72	12,52	34,72		
24.1.	0:00	44° 36, 971'S	174° 31, 776'E	11,2	10,7	804	804	- -	- -	12,05	34,73			01:12 Start Slipping
	1:00	44° 26, 467'S	174° 37, 354'E	10,6	72,5	707	707	- -	- -	11,58	34,40			Start Station PS 75/105 (MUC, KOL) <small>Station coord: 44° 24, 51'S 174° 37, 51'E 674 m</small>
	1:17	44° 24, 440'S	174° 37, 60'E	20,9	256	675	674	Single	- -	11,71	34,22			End Station PS 75/105
	3:30	44° 24, 150'S	174° 31, 549'E	2,9	331	669	668	Single	- -	11,71	34,22			
	4:00	44° 21, 131'S	174° 31, 621'E	5,4	5,4	644	643	- -	- -	11,71	34,26	12,70	34,30	
	5:00	44° 17, 092'S	174° 28, 006'E	5,3	358	606	603	- -	- -	11,07	34,33	12,50	34,20	
	6:00	44° 11, 497'S	174° 38, 377'E	5,5	1,4	573	572	- -	- -	11,09	34,30	13,03	34,31	
	7:00	44° 6, 267'S	174° 38, 727'E	5,6	1,0	548	548	- -	- -	11,03	34,39	14,25	34,20	
	8:00	44° 0, 252'S	174° 32, 135'E	5,9	2,2	528	528	- -	- -	11,17	34,51	14,13	34,49	
	9:00	43° 54, 301'S	174° 39, 556'E	6,1	6,1	518	517	- -	- -	11,15	34,48			
	10:00	43° 48, 493'S	174° 39, 423'E	5,8	3,8	516	515	- -	- -	11,15	34,26			
	11:00	43° 42, 483'S	174° 40, 356'E	5,9	1,1	520	519	- -	- -	11,14	34,35			Switch to automatic (no watches)
(...)														Stopping
19:00	42° 59, 701'S	174° 42, 842'E	0,2	111	667	668	- -	- -					Switching off	
23:03	43° 2, 761'S	174° 40, 806'E	0,6	203	594	595	- -	- -						

