

FANT XXII / 4

Central Scotia Sea

10. 09. 2005 - 20. 05. 2005

Nr. 10-14 232

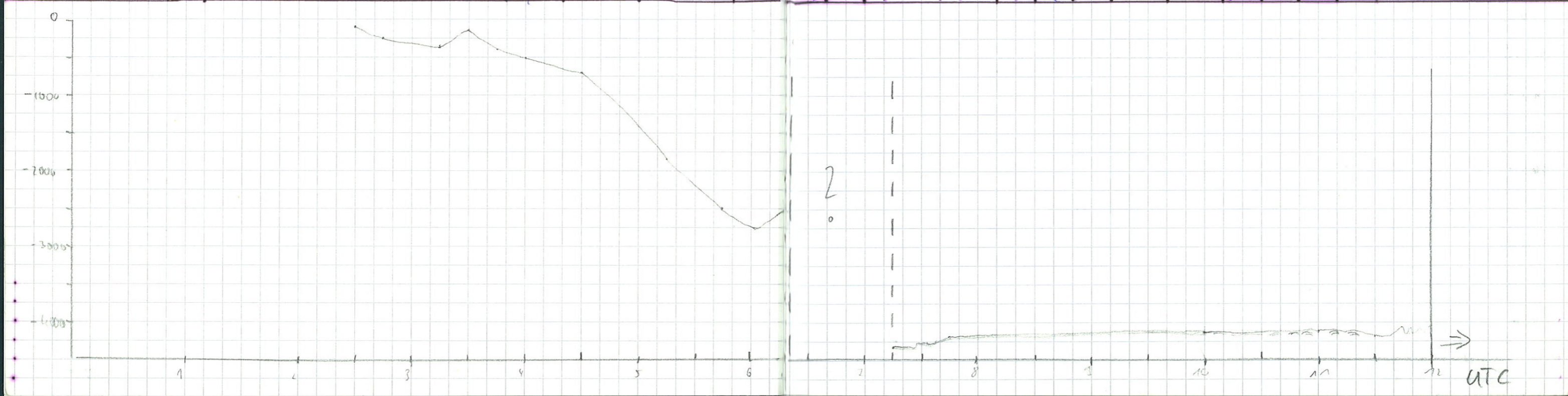
karlert 96 Bla



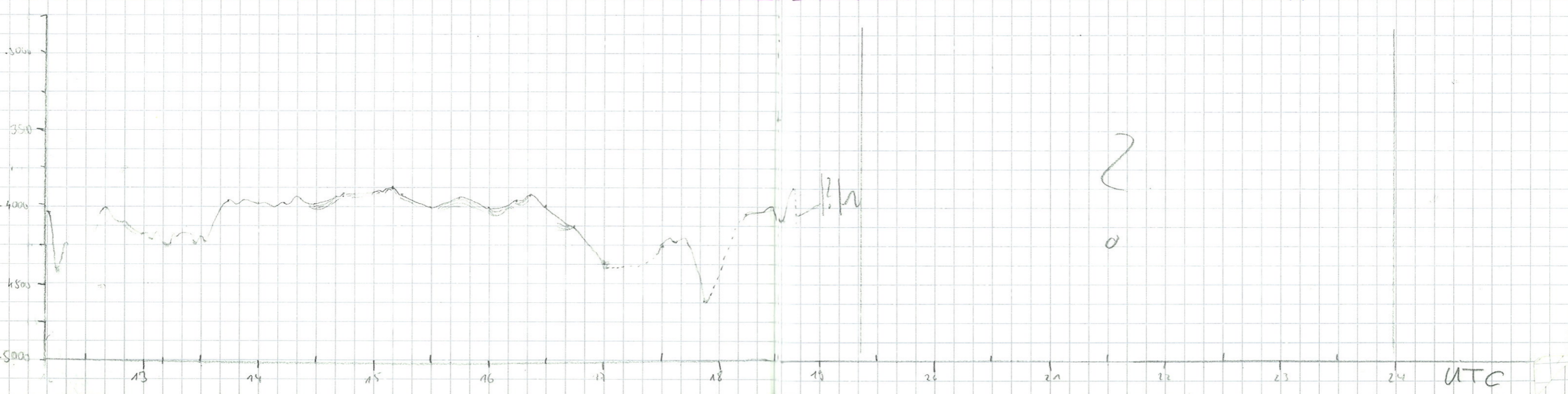
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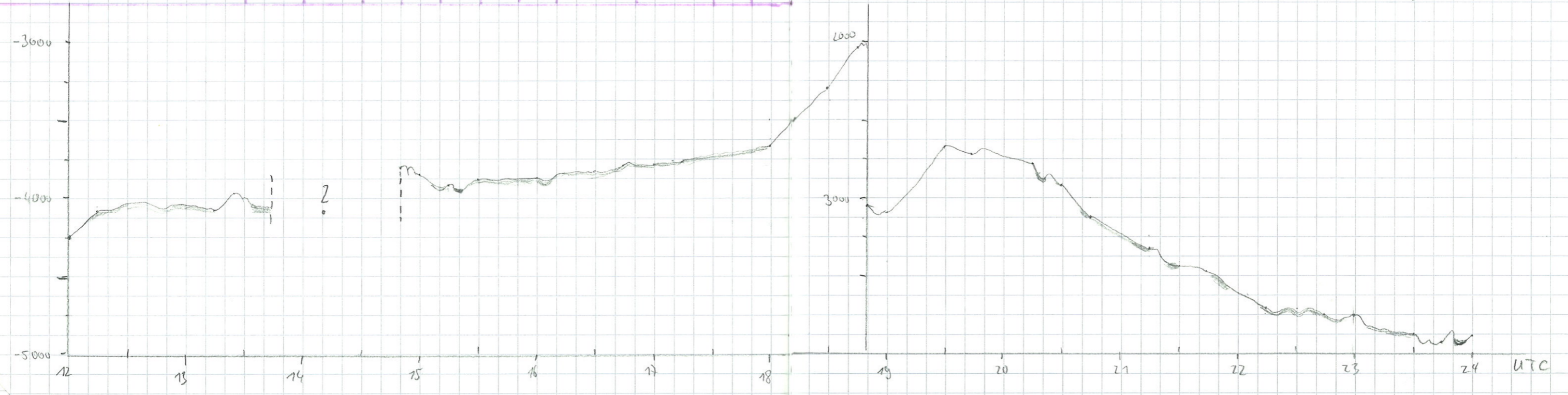
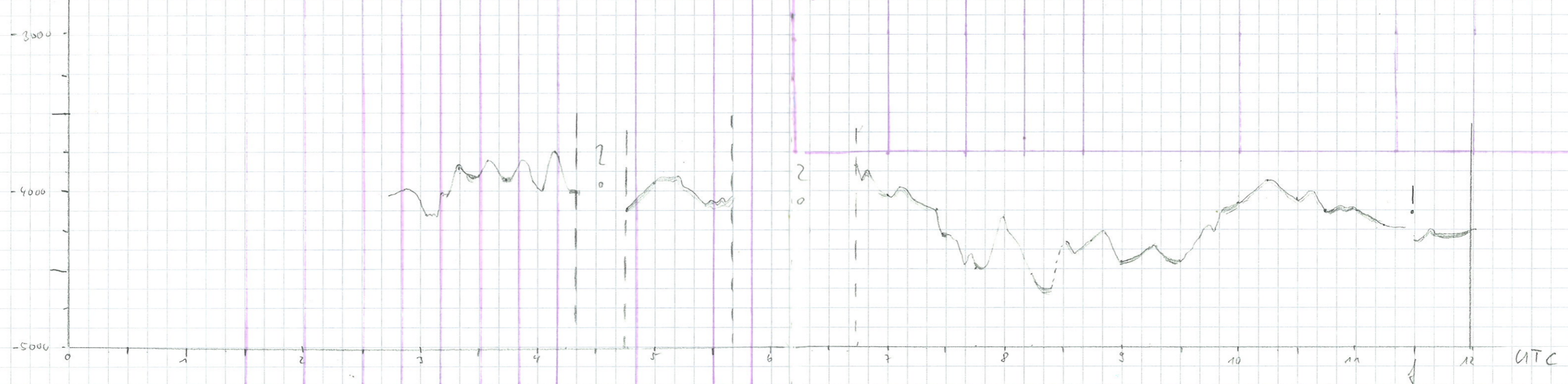
2	time	Latitude	Longitude	speed	course	depth (PS)	depth (HS)	freq.	pulse	d. range	sensor operation mode	S	T	O	ra	ge	remarks	3
												Aox.	IVUS	PAR	PAR-P3	Meta		
10.04.05	00:00	54° 41.410 S	63° 0.014 W	13.3	124	508	517	4	2	1000	PAR	X	X	X	X	X	um 0400 NRS-PA	
	00:30	54° 44.771 S	62° 51.655 W	12.3	124	764	780	4	2	1000	PAR	X	X	X	X	X		
	01:00	54° 48.167 S	62° 41.372 W	12.4	124	1750	1783	4	2	2000	NRS-PA	X	X	X	X	X		
	01:30	54° 51.840 S	62° 33.759 W	12.0	124	2327	2378	4	2	5000	PAR-Pilot	X	X	X	X	X		
	02:05	54° 55.865 S	62° 23.567 W	12.4	124	2723	2769	4	2	5000	PAR-Pilot	X	X	X	X	X	um 02:10 IVUS-PA	
	02:30	54° 59.573 S	62° 16.648 W	12.0	124	2591	2629	4	2	5000	NRS-PA	X	X	X	X	X	02:39 PAR-Pilot	
	03:00	55° 2.055 S	62° 7.655 W	12.0	124	3657	3699	4	2	5000	PAR-Pilot	X	X	X	X	X		
	03:30	55° 5.305 S	61° 59.217 W	12.0	124	4258	4316	4	2	5000	PAR-Pilot	X	X	X	X	X		
Local time	04:00	55° 08.650 S	61° 50.864 W	11.1	123	4207	4203	4	2	5000	PAR-Pilot	X	X	X	X	X		
	04:30	55° 17.899 S	61° 42.606 W	11.2	118	4199	4247	4	2	5000	PAR-Pilot	X	X	X	X	X		
	05:00	55° 15.029 S	61° 34.628 W	11.5	127	4173	4229	4	2	5000	PAR-Pilot	X	X	X	X	X		
	05:30	55° 18.227 S	61° 26.439 W	11.4	126.5	4158	4217	4	2	5000	PAR-Pilot	X	X	X	X	X		
	06:00	55° 21.552 S	61° 17.860 W	11.8	127.5	4138	4193	4	2	5000	PAR-Pilot	X	X	X	X	X		
	06:30	55° 25.067 S	61° 08.814 W	12.0	127	4131	4188	4	2	5000	PAR-Pilot	X	X	X	X	X		
	07:00	55° 28.158 S	61° 00.854 W	11.3	127	4125	4179	4	2	5000	PAR-Pilot	X	X	X	X	X		
	07:30	55° 31.959 S	60° 51.064 W	12.2	118	4175	4225	4	2	5000	PAR-Pilot	X	X	X	X	X		
10.04.05 UTC	12:56	55° 41.718 S	60° 25.753 W	12.6	122	4123	4174	4	2	7000	PAR-Pilot	X	X	X	X	X		
	13:30	55° 45.628 S	60° 15.630 W	12.6	122.7	4180.7	4246	4	2	7000	PAR-Pilot	X	X	X	X	X		
	14:00	55° 49.167 S	60° 6.452 W	11.8	123.0	3867.3	4020	4	2	7000	PAR-Pilot	X	X	X	X	X		
	14:30	55° 52.642 S	59° 57.311 W	12.9	122.4	3877.8	4030	4	2	7000	PAR-Pilot	X	X	X	X	X		
	15:00	55° 56.156 S	59° 48.228 W	13.0	123.2	3881.5	4032.0	4	2	7000	PAR-Pilot	X	X	X	X	X		
	15:30	55° 59.733 S	59° 38.904 W	12.7	126.1	3882.0	4035.0	4	2	7000	PAR-Pilot	X	X	X	X	X		
	16:00	56° 3.104 S	59° 30.085 W	11.8	120.5	4000.5	4050.0	4	2	7000	PAR-Pilot	X	X	X	X	X		
	16:30	56° 6.693 S	59° 20.615 W	12.5	125	4070	4066	4	2	7000	PAR-Pilot	X	X	X	X	X		
	16:57	56° 7.784 S	59° 12.499 W	12.1	126	4375	4435	4	2	7000	PAR-Pilot	X	X	X	X	X		
	18:00	56° 16.805 S	58° 54.040 W	11.5	126	4136	4175	4	2	7000	PAR-Pilot	X	X	X	X	X		
	18:30	56° 20.048 S	58° 45.544 W	11.5	126	4040	4103	4	2	7000	PAR-Pilot	X	X	X	X	X		
	19:00	56° 23.327 S	58° 36.874 W	11.5	124	3917	3967	4	2	7000	PAR-Pilot	X	X	X	X	X		
	19:30	56° 26.524 S	58° 28.422 W	11.5	124	4281	4326	4	2	7000	"	X	X	X	X	X		
	20:00	56° 29.699 S	58° 20.008 W	11.5	124	3724	3791	4	2	7000	"	X	X	X	X	X		
	20:30	56° 33.589 S	58° 09.711 W	11.4	124	3244	3288	4	2	7000	"	X	X	X	X	X		
	21:00	56° 36.671 S	58° 01.539 W	11.9	120	3544	3631	4	2	7000	"	X	X	X	X	X		
	21:30	56° 39.268 S	57° 54.585 W	12.0	125	3185	3206	4	2	7000	"	X	X	X	X	X		
	22:00	56° 43.080 S	57° 44.461 W	11.8	123	3401	3444	4	2	7000	"	X	X	X	X	X		
	22:30	56° 45.924 S	57° 36.874 W	12.2	127	2426	2462	4	2	7000	"	X	X	X	X	X		
	23:00	56° 48.947 S	57° 28.834 W	12.2	120	2415	2461	4	2	7000	"	X	X	X	X	X		



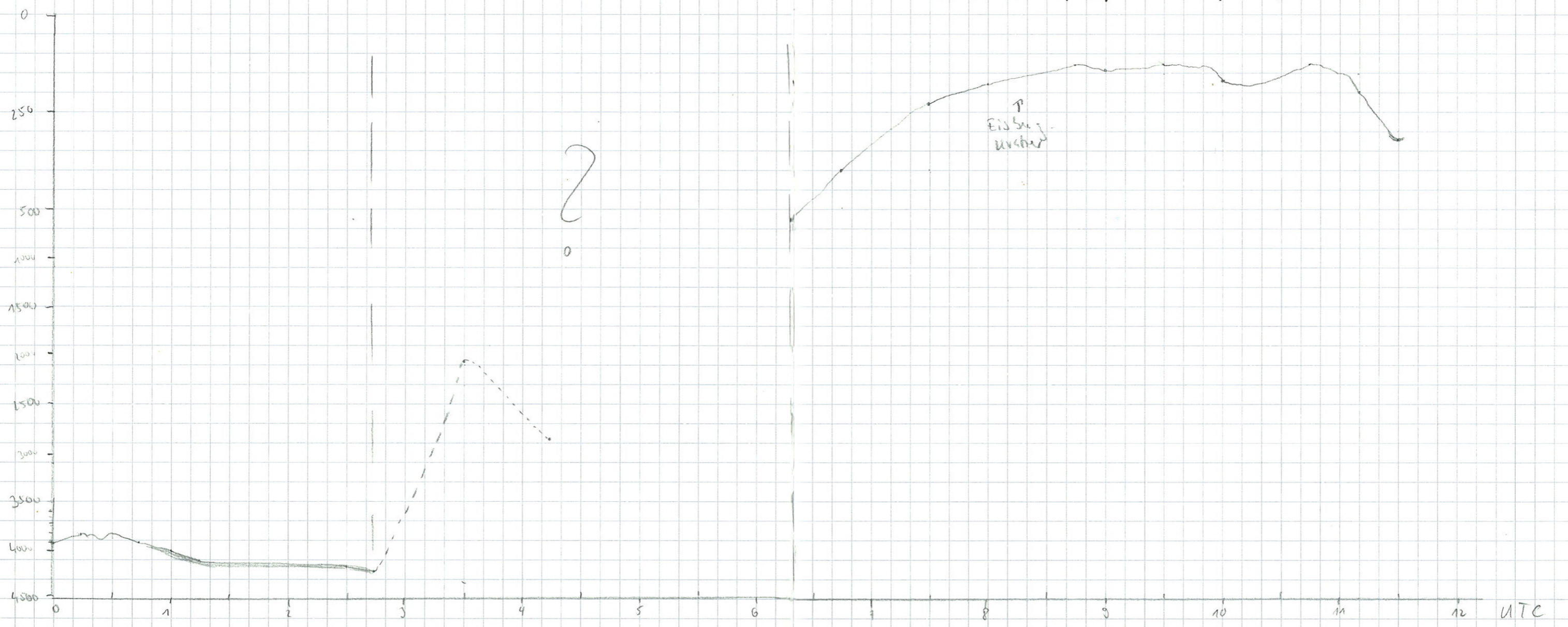
4	Date	Time	Latitude	Longitude	Speed	Course	Depth (PS)	Depth (HS)	Freq.	Pulse	D. Range	Sensor operation modulus	S	E	O	RA	FE	Pulse train length	Water temp	Remarks	5
	10.04.05	23:30	56° 53' 25.9" S	57° 17' 25.6" W	12.3	128	2466	2524	4	2	5000	PAR-Pilot	x	x	x	x	x	Mod	Bow		
		24:00	56° 55' 7.1" S	57° 10' 6.1" W	11.5	123	4068	4087	4	2	7000	PAR-Pilot	x	x	x	x	x	Mod	Bow		
	11.04.05	00:30	56° 59' 38.7" S	57° 0' 8.0" W	11.8	125.4	4285.2	4024.0	4	2	7000	PAR-Pilot	x	x	x	x	x	Mod	Bow		
		1:00	57° 2' 46.8" S	56° 51' 7.5" W	12.2	122.0	3858.2	3702.0	4	2	7000	PAR-Pilot	x	x	x	x	x	Mod	Bow		
		1:30	57° 6' 21.6" S	56° 42' 56.0" W	12.8	124.6	3420.3	3390.0	4	2	7000	PAR-Pilot	x	x	x	x	x	Mod	Bow		
		2:00	57° 9' 6.9" S	56° 33' 16.5" W	12.0	125.7	3521.2	3614.0	4	2	7000	PAR-Pilot	x	x	x	x	x	Mod	Bow		
		2:30	57° 13' 11.0" S	56° 23' 9.0" W	12.5	122.7	3769.6	3811.0	4	2	7000	PAR-Pilot	x	x	x	x	x	Mod	Bow		
		3:00	57° 16' 46.4" S	56° 14' 8.2" W	12.1	121.5	4087.8	4117.0	4	2	7000	PAR-Pilot	x	x	x	x	x	Mod	Bow		
		3:30	57° 18' 7.4" S	56° 6' 0.1" W	11.8	121.8	3886.1	3835.0	4	2	7000	PAR-Pilot	x	x	x	x	x	Mod	Bow		
		4:00	57° 23' 12.0" S	55° 56' 8.3" W	11.8	121.4	3888.2	4028.0	4	2	7000	PAR-Pilot	x	x	x	x	x	Mod	Bow		
		4:30	57° 26' 4.8" OS	55° 47' 7.2" W	12	121	4133	4184	4	2	7000	PAR-Pilot	x	x	x	x	x	Mod	Bow		
		5:00	57° 29' 8.5" OS	55° 38' 5.6" W	12	125	3997	4054	4	2	7000	PAR-Pilot	x	x	x	x	x	Mod	Bow		
		5:30	57° 31' 2.1" OS	55° 29' 3.8" W	12	125	4103	4158	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		6:00	57° 36' 9.3" OS	55° 19' 2.5" W	11.8	125	3994	3750	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		6:30	57° 40' 1.8" OS	55° 10' 4.2" W	12.6	125	4038	4101	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		7:00	57° 43' 5.7" OS	55° 7' 1.1" W	12.7	125	4026	4075	4	2	7000	PAR-Pilot	x	x	x	x	x	Mod	Bow		
		7:30	57° 47' 0.5" OS	54° 57' 6.2" W	12.0	123	4356	4296	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		8:00	57° 50' 5.7" OS	54° 41' 9.2" W	12.3	124	4240		4	2	7000	"	x	x	x	x	x	Mod	Bow		
		8:30	57° 54' 2.1" OS	54° 31' 8.1" W	12.9	125	4482	4247	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		9:00	57° 57' 5.9" OS	54° 22' 7.8" W	12.8	124	4380	4424	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		9:30	58° 0' 1.6" OS	54° 12' 8.7" W	12.4	124	4477	4426	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		10:00	58° 0' 4.8" OS	54° 02' 6.0" W	12.2	121	4083	4135	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		10:30	58° 0' 8.1" OS	53° 53' 3.9" W	12.3	123	4034	4089	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		11:00	58° 1' 6.2" OS	53° 43' 8.0" W	11.9	124	4124	4129	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		11:30	58° 1' 14.8" OS	53° 34' 5.6" W	12.6	124	4266.1	4324.0	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		12:00	58° 1' 36.5" OS	53° 25' 1.2" W	11.5	123.5	4236.6	4282.0	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		12:30	58° 2' 1.8" OS	53° 15' 5.1" W	12.1	125	4068.8	4125.0	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		13:00	58° 2' 5.7" OS	53° 6' 4.3" W	11.7	125	4065.1	4121.0	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		13:30	58° 2' 28.1" OS	52° 57' 0.6" W	11.7	127.1	3848.6	4008.0	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		14:00	58° 3' 1.0" OS	52° 47' 8.3" W	11.7	125.2	4031.2	4085.0	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		14:30	58° 3' 4.8" OS	52° 40' 7.8" W	13.8	124.2	3835	3773	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		15:00	58° 3' 7.0" OS	52° 33' 6.0" W	12.8	127.9	3839.8	3801	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		15:30	58° 4' 0.2" OS	52° 23' 7.4" W	12.5	125	3873	3925	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		16:00	58° 4' 3.6" OS	52° 14' 3.2" W	11.8	122	3864	3924	4	2	7000	"	x	x	x	x	x	Mod	Bow		
		16:30	58° 4' 7.2" OS	52° 0' 8.9" W	11.6	126	3835	3894	4	2	7000	"	x	x	x	x	x	Mod	Bow		



6	Date	Time	Latitude	Longitude	Speed	Course	Depth (MS)	Depth (MS)	Prog	Rate	D. Range	Trans operation modes	S Aux	T VSS	O PAR	PAR-PB	ge Meta	intra trans.	Water uptake	Remarks	7
	M. 04	17:06	58° 49.828 S	51° 59.422 W	12.3	115	3795	3850	4	2	7000	PAR-Pilot	x	x	x	x	x	Mod	Simondic		
		17:30	58° 51.905 S	51° 51.061 W	10.1	228	3728	3785	4	2	7000	PAR-Pilot	x	x	x	x	x	Mod			
		18:00	58° 54.485 S	51° 43.735 W	12.6	126	3662	3720	4	2	7000	"	x	x	x	x	x	Mod			
		18:30	58° 57.973 S	51° 33.906 W	12.3	123	3299	3355	4	2	7000	"	x	x	x	x	x	Mod			
		19:00	59° 01.421 S	51° 24.062 W	12.7	124	3146	3087	4	2	7000	"	x	x	x	x	x	Mod			
		19:30	59° 04.961 S	51° 14.000 W	12.6	123	2704	2642	4	2	7000	"	x	x	x	x	x	Mod			
		20:00	59° 08.451 S	51° 04.077 W	13.0	125	2716	2669	4	2	7000	"	x	x	x	x	x	Mod			
		20:30	59° 12.157 S	50° 53.485 W	13.0	124	2860	2920	4	2	7000	"	x	x	x	x	x	Mod			
		21:00	59° 15.647 S	50° 43.273 W	13.0	122	3263	3325	4	2	7000	"	x	x	x	x	x	Mod			
		21:30	59° 19.357 S	50° 32.928 W	13.0	124	3479	3425	4	2	7000	"	x	x	x	x	x	Mod			
		22:00	59° 23.026 S	50° 22.374 W	13.4	122	3603	3548	4	2	7000	"	x	x	x	x	x	Mod			
		22:30	59° 26.801 S	50° 11.540 W	13.4	125	3773	3711	4	2	7000	"	x	x	x	x	x	Mod			
		23:00																			
		23:30	59° 34.277 S	49° 50.004 W	13.0	127.2	3877.9	3939.0	4	2	7000	"	x	x	x	x	x	Mod	Spigoni		
	12. 04. 05	24:00	59° 38.063 S	49° 39.002 W	13.9	123.8	3885.0	3940.0	4	2	7000	"	x	x	x	x	x	Mod.			
		24:30	59° 42.574 S	49° 25.942 W	13.8	125.5	3833.1	3895.0	4	2	7000	"	x	x	x	x	x	Mod.			

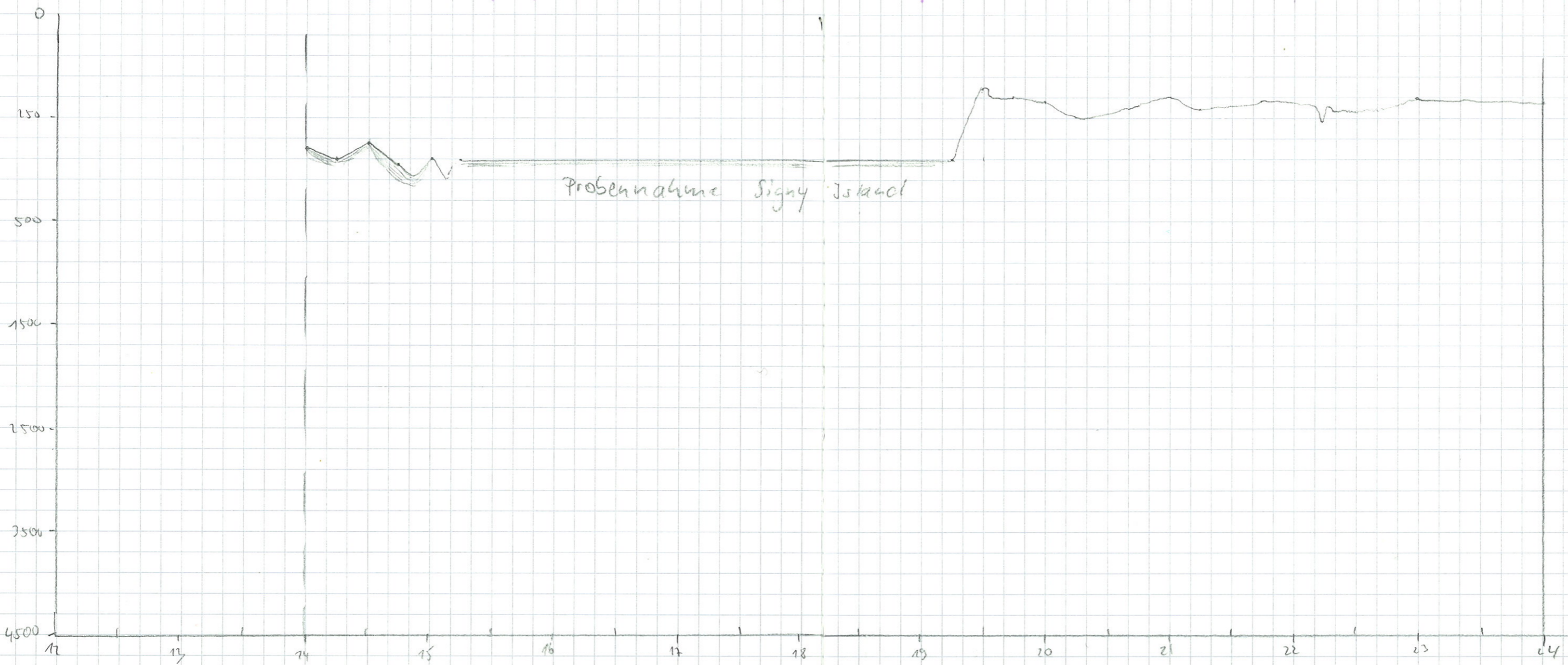


Date	Time	Latitude	Longitude	Speed	Course	Depth (PS)	Depth (MS)	Freq.	Pulse	D. Range	Sensor Operat. Modes	S	+	O	R	A	Q	E	Poise Train Length	Watch Keeper	Remarks
12.04.05	1:00	59° 45.837 S	49° 16.460 W	13.9	123.4	4034.8	4088.0	4	2	7000	Par-Pilot	x	x	x	x	x	x	x	Mod.		
	1:30	59° 50.161 S	49° 4.006 W	14.3	123.4	4163.3	4221.0	4	2	7000	Par-Pilot	x	x	x	x	x	x	x	Mod.		
	2:00	59° 53.637 S	48° 53.861 W	12.6	123.5	4177.8	4233.0	4	2	7000	Par-Pilot	x	x	x	x	x	x	x	Mod.		
	2:31	59° 57.148 S	48° 43.560 W	12.1	124.6	4208.1	4263.0	4	2	7000	Par-Pilot	x	x	x	x	x	x	x	Mod.		23.30-50 - Labo (sampling)
	3:00	60° 0.520 S	48° 33.743 W	12.8	125	3304.5	3380.0	4	2	7000	Par-Pilot	x	x	x	x	x	x	x	Mod.		
	3:30	60° 4.836 S	48° 23.395 W	13.6	125	2113	2183	4	2	7000	-	x	x	x	x	x	x	x	Mod.		
	4:00	60° 8.516 S	48° 11.505 W	14.7	121.5	2285.4	2341.0	4	2	7000	-	x	x	x	x	x	x	x	Mod.		
	4:30	60° 11.772 S	47° 57.100 W	14.0	123	2999	2923	4	2	7000	-	x	x	x	x	x	x	x	Mod.		
	5:00	60° 15.258 S	47° 47.347 W	12.9	123	6169	5639	4	2	7000	-	x	x	x	x	x	x	x	Mod.		
	5:30	60° 19.564 S	47° 37.733 W	13.1	126	5897	4743	4	2	7000	-	x	x	x	x	x	x	x	Mod.		
	6:00	60° 23.592 S	47° 26.207 W	13.2	122	6200	2978	4	2	7000	-	x	x	x	x	x	x	x	Mod.		
	6:45	60° 25.136 S	47° 21.473 W	13.6	125	705	737	4	2	1000	PAR	x	x	x	x	x	x	x	Mod.		
	6:58	60° 27.632 S	47° 16.307 W	13.0	127	521	537	4	2	1000	PAR	x	x	x	x	x	x	x	Mod.		
	7:00	60° 32.351 S	47° 08.597 W	12.9	146	304	296	4	2	500	PAR	x	x	x	x	x	x	x	Mod.		
	7:30	60° 36.660 S	46° 59.062 W	15.2	126	270	273	4	2	500	PAR	x	x	x	x	x	x	x	Mod.		
	8:00	60° 39.456 S	46° 47.221 W	9.4	108	187	182	4	2	500	PAR	x	x	x	x	x	x	x	Mod.		
	8:30	60° 40.363 S	46° 36.902 W	10.7	78	133	128	4	2	500	PAR	x	x	x	x	x	x	x	Mod.		
	9:00	60° 41.104 S	46° 26.780 W	10.1	123	145.7	142	4	2	500	PAR	x	x	x	x	x	x	x	Mod.		
	9:30	60° 43.580 S	46° 18.513 W	9.3	109	132	129	4	2	500	PAR	x	x	x	x	x	x	x	Mod.		
	10:00	60° 45.048 S	46° 09.558 W	9.6	100	172	168	4	2	500	PAR	x	x	x	x	x	x	x	Mod.		
	10:30	60° 45.824 S	45° 59.793 W	9.6	104	172	167	4	2	500	PAR	x	x	x	x	x	x	x	Mod.		
	11:00	60° 47.866 S	45° 50.788 W	9.5	116	174	183	4	2	500	PAR	x	x	x	x	x	x	x	Mod.		
	11:30	60° 49.450 S	45° 41.858 W	9.6	101.2	367.1	388.4	4	2	500	PAR	x	x	x	x	x	x	x	Mod.		
	12:00	60° 48.425 S	45° 33.66 S	9.7	37.0	189	193.8	4	2	500	PAR	x	x	x	x	x	x	x	Mod.		11.45-12.15 (Lab)

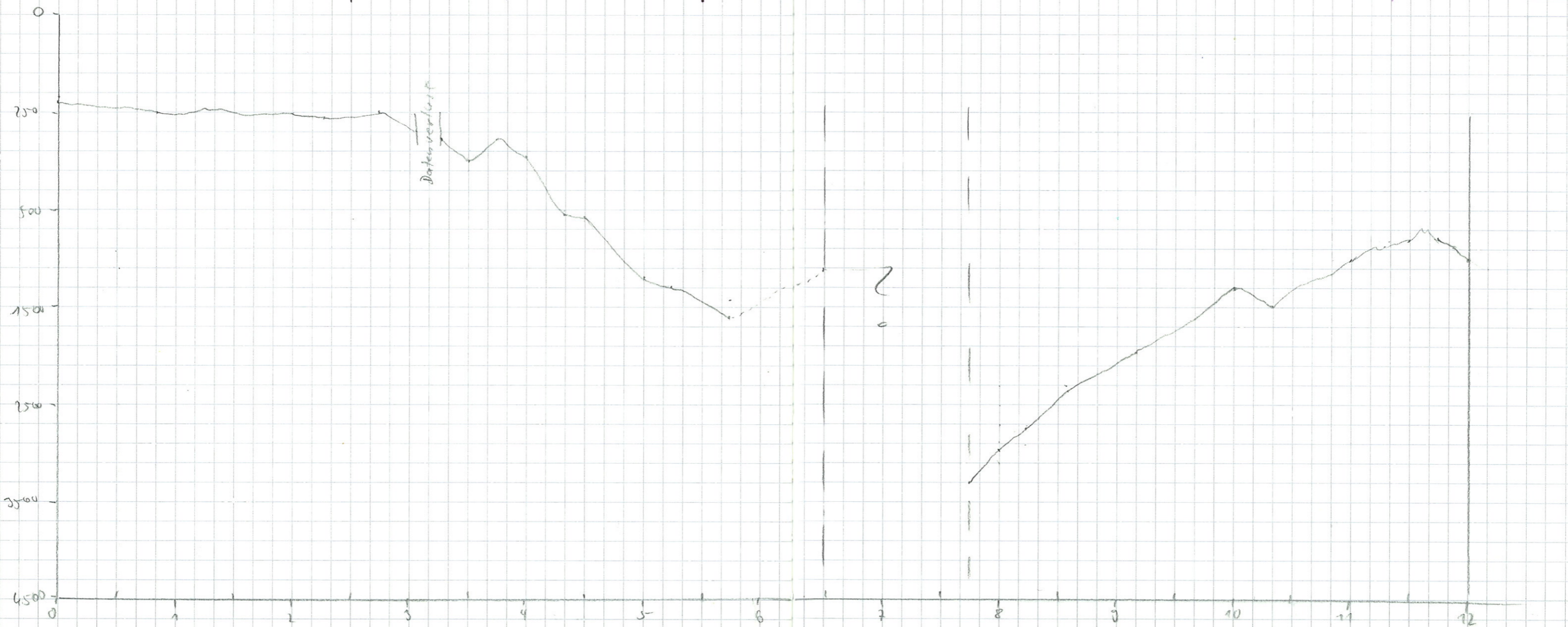


10 Date	Time	Latitude	Longitude	Speed	Course	Depth (PS)	Depth (HS)	Freq	Pulse	D. Range	Sensor Operat. Modus	Aux	NBS	PAR	PAR-PS	Meta	Pulse Train Length	Watch keeper	Remarks
12.04.05	12:30	60° 46.345 S	45° 27.326 W	8.7	340	277.5	290.8	4	2	500	PAR	x	x	x	x	x	Mod.	Greg Prince	12:17 wrong position
	13:00	60° 44.767 S	45° 32.724 W	8.4	330.1	199.6	38.4	4	2	500	PAR	x	x	x	x	x	Mod.		12:43 -11- +11-
	13:44	60° 42.654 S	45° 29.993 W	8.8	178.1	277.1	284.4	4	2	500	PAR	x	x	x	x	x	Mod.		
	14:01	60° 45.279 S	45° 29.402 W	9.2	186.5	327	341.0	4	2	500	PAR	x	x	x	x	x	Mod.		
	14:37	60° 50.803 S	45° 28.749 W	9.3	212	323	331	4	2	500	PAR	x	x	x	x	x	Mod.		
	15:00	60° 49.429 S	45° 31.207 W	9.4	24	339	357	4	2	500	PAR	x	x	x	x	x	Mod.		
	15:20	60° 47.579 S	45° 29.57 W	8.3	338	349	364	4	2	500	PAR	x	x	x	x	x	Mod.		
	16																		
	16																		
	17																		
	17																		
	18																		
	18																		
	19																		
	19																		
	20																		
	21																		
	21:30	60° 53.440 S	44° 44.640 W	10.4	89.9	246	256	4	2	500	PAR	x	x	x	x	x	Mod.		
	22:00	60° 53.449 S	44° 34.471 W	10.5	89.5	227	220	4	2	500	-11-								
	22:30	60° 53.368 S	44° 23.659 W	10.5	88.5	250	241	4	2	500	-11-								
	23:00	60° 53.082 S	44° 12.917 W	10.5	92.8	211	206	4	2	500	-11-								
	23:30	60° 51.966 S	44° 02.600 W	10.4	92.7	212	207	4	2	500	-11-								
	24:00																		

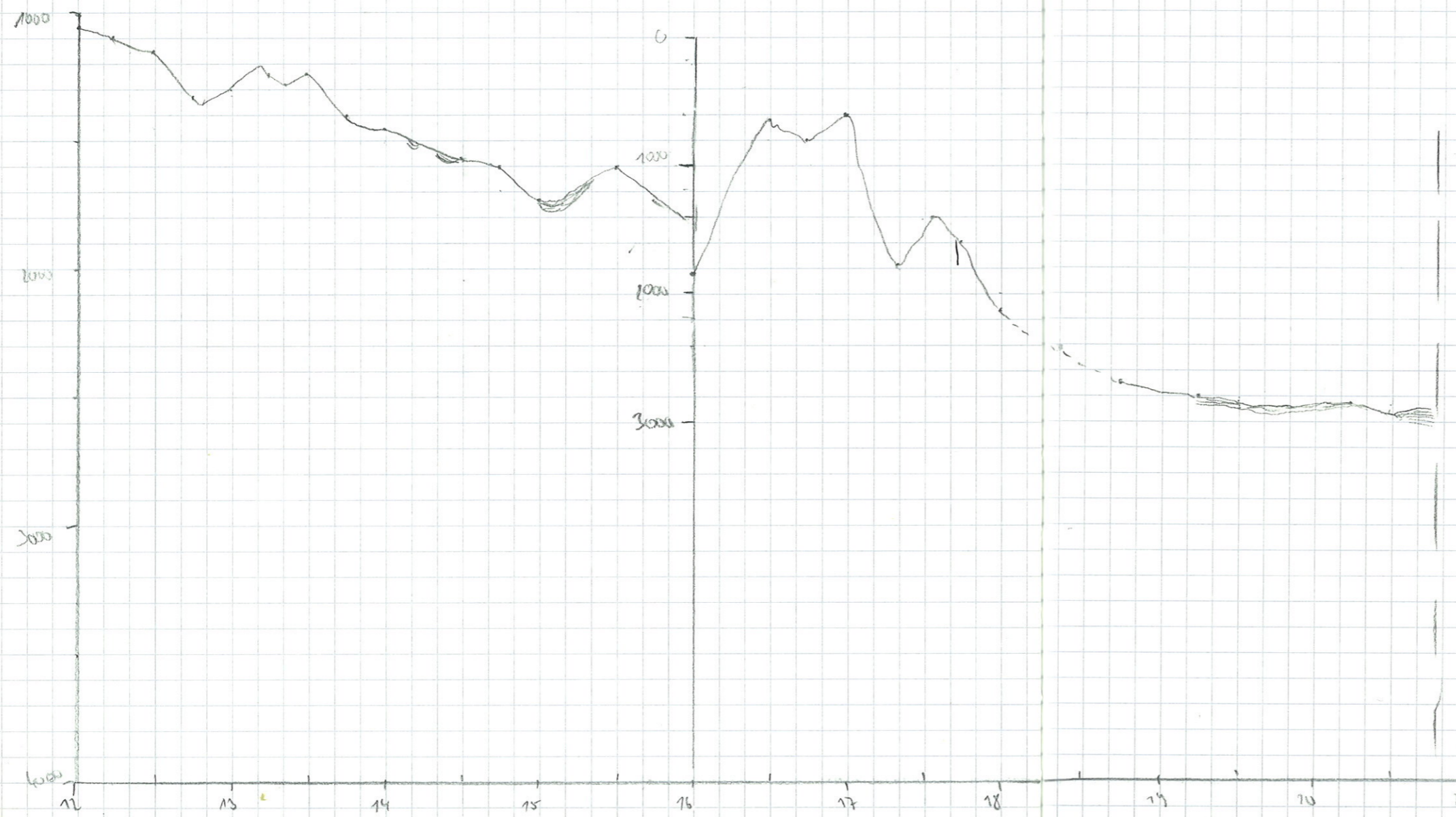
Station KOL
PS67/182-1
MUC PS67/182-2



Date	Time	Latitude	Longitude	Speed	Course	Depth (fs)	Depth (fms)	Freq	Pulse	D. Range	Sensor Op. Mode	Aux	NBS	PAR	PAR PS	Meta	Pulse Train Length	Watch Keypad	Remarks
13.04.05	2:06	60° 49.771	43° 30.832	7.1	173.1	262.9	270.9	4	2	500	PAR	x	x	x	x	x	Mod		
	2:30	60° 49.649	43° 33.750	7.3	10.9	255.5	263.4	4	2	500	PAR	x	x	x	x	x	Mod	gregorian	
	3:00	60° 46.582	43° 24.633	10.0	30.4	290.5	299.1	4	2	500	PAR	x	x	x	x	x	Mod		
	3:30	60° 46.094 S	43° 18.395 W	10.0	89.7	368	380	4	2	500	PAR	x	x	x	x	x	Mod		
	4:00	60° 45.949 S	43° 8.209 W	10.0	72.9	370	383	4	2	500	PAR	x	x	x	x	x	Mod		
	4:30	60° 45.097 S	42° 57.903 W	10.2	78	589	612	4	2	1000	PAR	x	x	x	x	x	Mod		
	5:00	60° 43.466 S	42° 48.891 W	10.6	70.7	725.7	720.4	4	2	2000	PAR	x	x	x	x	x	Mod		at 5:05 NBS-PAR 2000
	5:30	60° 44.902 S	42° 38.405 W	10.4	70.3	1406	1540	4	2	2000	NBS-PAR	x	x	x	x	x	Mod		
	6:00	60° 43.102 S	42° 29.172 W	10.3	55	1055	1120	4	2	1000	PAR	x	x	x	x	x	Mod		
	6:30	60° 40.115 S	42° 20.812 W	10.2	52	1266	1258	4	2	1000	PAR	x	x	x	x	x	Mod		at 6:37 NBS-PAR 2000
	7:00	60° 38.548 S	42° 10.966 W	10.2	76	2922	2899	4	2	5000	PAR-Pilot	x	x	x	x	x	Mod		at 6:52 PAR-Pilot 5000
	7:30	60° 38.124 S	42° 00.526 W	10.6	88	3719	11.3	4	2	10000	PAR-Pilot	x	x	x	x	x	Mod		Tiefe HS feld
	8:00	60° 37.630 S	41° 49.977 W	10.1	83	3017	77.7	4	2	10000	"	x	x	x	x	x	Mod		Tiefe HS feld
	8:30	60° 36.787 S	41° 39.642 W	10.1	76	2708	2645	4	2	10000	"	x	x	x	x	x	Mod		D. Range 5000
	9:00	60° 35.473 S	41° 29.458 W	10.3	73	2173	2131	4	2	10000	"	x	x	x	x	x	Mod		abr in
	9:30	60° 34.002 S	41° 19.518 W	10.2	73	1487	1443	4	2	10000	"	x	x	x	x	x	Mod		aux file 10.000
	10:00	60° 31.664 S	41° 10.262 W	10.2	58	1289	1312	4	2	10000	"	x	x	x	x	x	Mod		
	10:30	60° 29.081 S	41° 01.369 W	10.5	58	1504	1537	4	2	10000	"	x	x	x	x	x	Mod		at 10:43 PAR + NR 2000
	11:00	60° 26.678 S	40° 52.639 W	10.5	62.4	1314	1354	4	2	2000	PAR	x	x	x	x	x	Mod		
	11:30	60° 23.797 S	40° 42.880 W	9.9	55.1	801.9	830.8	4	2	1000	PAR	x	x	x	x	x	Mod		11:15 PAR + DR 1000
	12:00	60° 21.248 S	40° 35.594 W	10.0	57.3	1020.6	1051.0	4	2	2000	PAR	x	x	x	x	x	Mod		11:59 PAR + DR 2000
	12:30	60° 18.700 S	40° 27.338 W	9.6	74.2	1186.6	1228.0	4	2	2000	-	x	x	x	x	x	Mod		
	13:00	60° 16.455 S	40° 18.690 W	9.4	60.0	1298.6	1340.0	4	2	2000	-	x	x	x	x	x	Mod		
	13:30	60° 14.099 S	40° 10.219 W	9.7	59.9	1240.5	1278.0	4	2	2000	-	x	x	x	x	x	Mod		

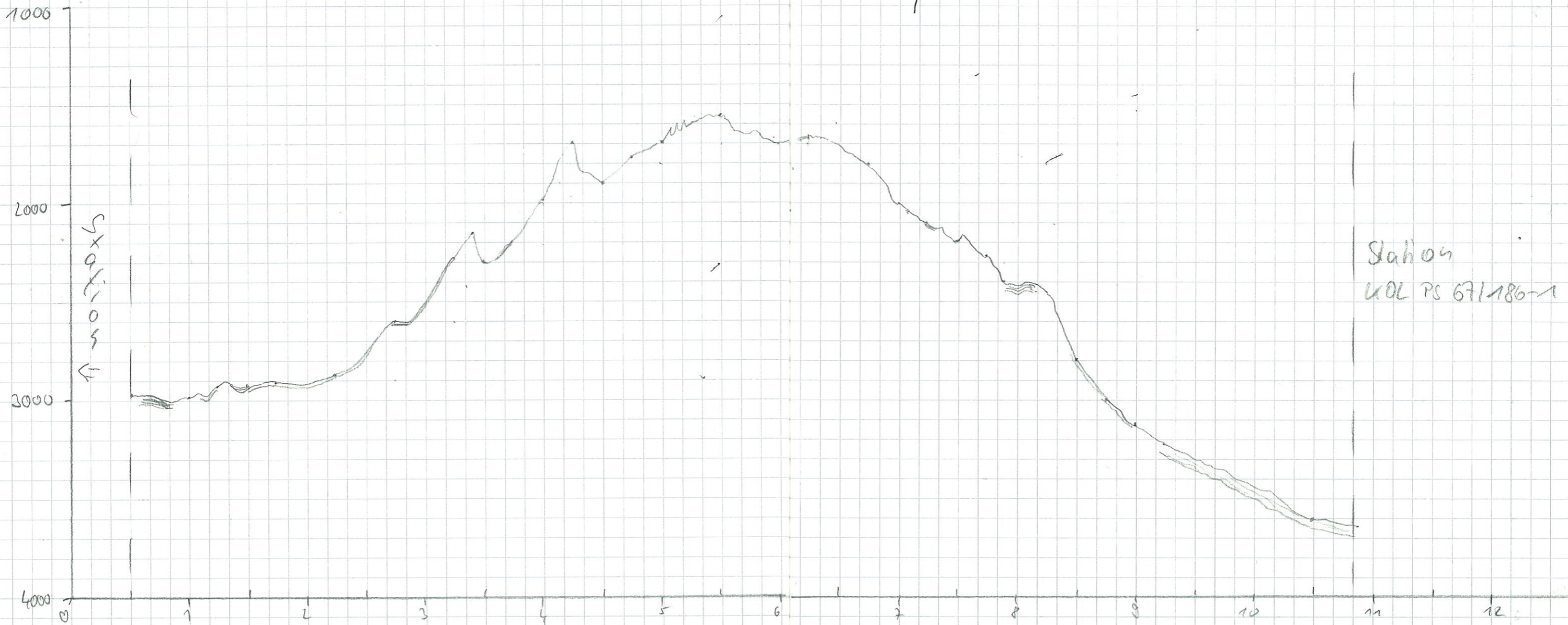


14 Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Req	Pulse	D.Range	Sensor Operat Modus	Aux	NBS	PAR	PAR PS3	Metd	Pulse Train Length	Watch Keeper	Remarks	
13.04.04	14:00	60° 11.684 S	40° 1.735 W	9.6	48.7	1466.6	1508.0	4	2	2000	PAR	x	x	x	x	x	Mod	Gregorina	14:07 NBS-PAR	
	14:30	60° 8.684 S	39° 54.147 W	9.8	60.8	1577.0	1622.0	4	2	2000	NBS-PAR	x	x	x	x	x	Mod			
	15:00	60° 6.304 S	39° 45.730 W	9.5	58.3	1716.5	1763.0	4	2	2000	NBS-PAR	x	x	x	x	x	Mod			
	15:30	60° 3.536 S	39° 37.000 W	10.0	55	1605	1653	4	2	2000	NBS-PAR	x	x	x	x	x	Mod			
	16:00	60° 0.857 S	39° 29.178 W	10.0	53	1545	1861	4	2	2000	NBS-PAR	x	x	x	x	x	Mod			
	16:30	59° 58.502 S	39° 20.678 W	10.0	60	629	647	4	2	1000	PAR	x	x	x	x	x	Mod			
	17:00	59° 56.014 S	39° 11.160 W	10.3	62.4	642	654	4	2	1000	PAR	x	x	x	x	x	Mod			
	17:30	59° 53.406 S	39° 2.290 W	10.4	55	1651	1659	4	2	2000	NBS-PAR	x	x	x	x	x	Mod			
	18:00	59° 50.474 S	38° 53.849 W	10.5	67.7	2178	2223	4	2	2000	NBS-PAR	x	x	x	x	x	Mod			
	18:30	59° 48.286 S	38° 44.422 W	10.5	64	2115	2171	4	2	2000	NBS-PAR	x	x	x	x	x	Mod			
	19:00	59° 45.854 S	38° 35.863 W	10.0		2829	2774.7	4	2	5000	NBS-PAR	x	x	x	x	x	Mod			
	19:30	59° 42.620 S	38° 28.143 W	10.3	53	2867	2815	4	2	5000	PAR-Pilcl	x	x	x	x	x	Mod			
	20:00	59° 39.821 S	38° 19.700 W	10.1	58	2877	2923	4	2	5000	PAR-Pilcl	x	x	x	x	x	Mod			
	20:30	59° 37.257 S	38° 11.346 W	10.1	62	2978	2940	4	2	5000	PAR-Pilcl	x	x	x	x	x	Mod			
	21:00	59° 35.098 S	38° 5.599 W	0.3	273.4	2879.5	2942	5.5	2	5000	-	x	x	x	x	x	Min	Station KOL PS 671785-3 Nuc PS 671785-1		
	21:30																			
	22:00																			
	22:30																			
	23:00																			
	23:30																			
24:00																				
24:30																				
14.04.04	1:00	59° 34.495 S	38° 14.642 W	10.4	267	2965	2970	4	2	5000	PAR-Pilcl	x	x	x	x	x	Min		Dorles Duc	Länge überwindung Para/Hydro ⇒ XBT
	1:30	59° 24.404 S	38° 24.986 W	10.6	267	2922	2920	4	2	5000	PAR-Pilcl	x	x	x	x	x	Min			



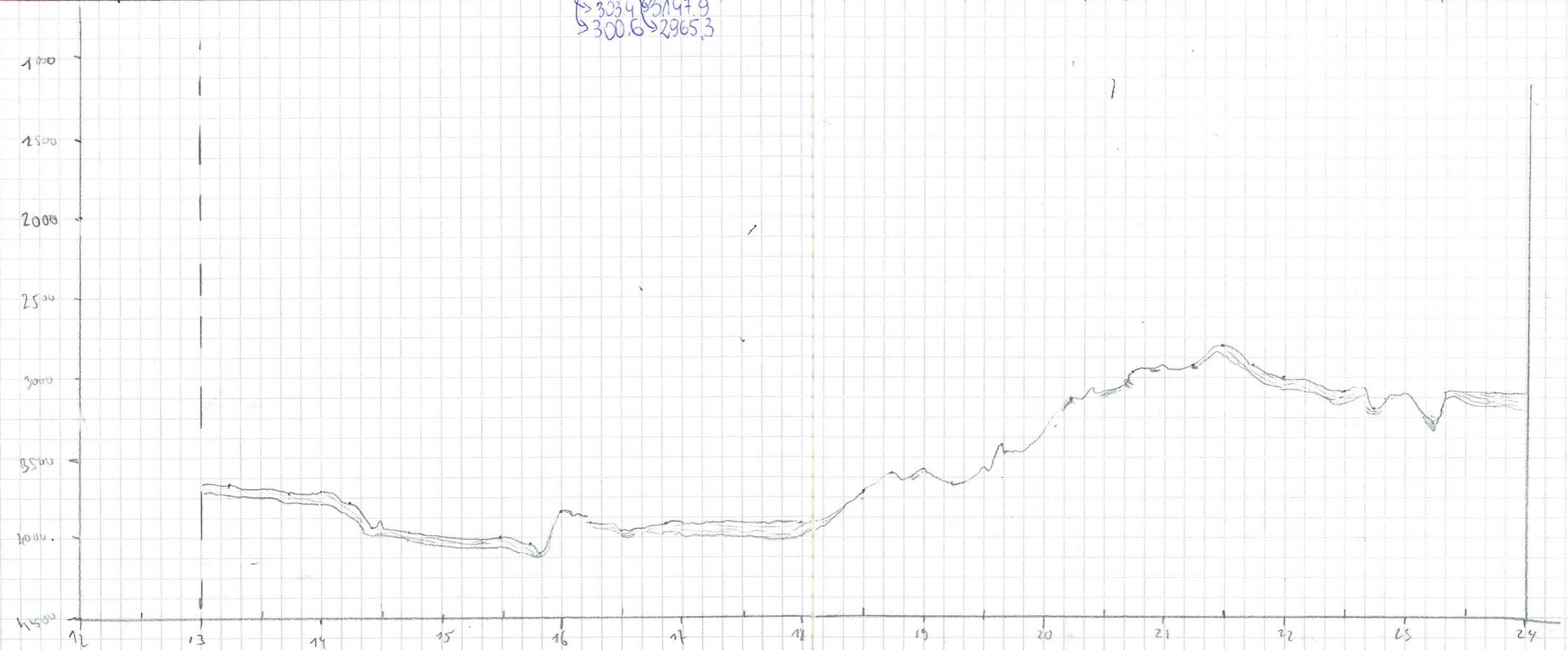
Station
KOL PS 671785-3
Nuc PS 671785-1
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16 Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq	Pulse	D. Range	Sensor Operat Modus	Aux	NBS	PAR	PAR PS3	Mete	Poise Tvdn Length	Watch keeper	Remarks	17
14.04.05	02:00	59 24 02.2 S	38 35 38.0 W	10.4	269	2810	2883	4	2	5000	PAR-Pilot	x	x	x	x	x	Min	Don't		
	2:30	59 23 35.4 S	38 45 6.7 W	10.3	272	2811	2821	4	2	5000	PAR-Pilot	x	x	x	x	x	Min	---		
	3:00	59 23 6.5 S	38 56 0.9 W	10.2	276	2474	2479	4	2	5000	---	x	x	x	x	x	Min	---		
	3:30	59 22 7.6 S	38 05 8.6 W	10.5	283	2287	2300	4	2	5000	---	x	x	x	x	x	Min	---		
	4:00	59 22 7.9 S	39 16 0.6 W	10.2	262	1956	1971	4	2	5000	---	x	x	x	x	x	Min	---		
	4:30	59 22 7.9 S	39 26 1.9 W	10.2	273	1617	1902	4	2	5000	---	x	x	x	x	x	Min	---		
	5:00	59 22 50.3 S	39 36 1.2 W	10.0	211	1728	1726	4	2	5000	---	x	x	x	x	x	Min	---		
	5:30	59 22 0.3 S	39 45 7.9 W	9.9	296	1576	1590	4	2	5000	---	x	x	x	x	x	Min	---		
	6:00	59 21 8.6 S	39 55 7.8 W	10.0	278	1707	1703	4	2	5000	---	x	x	x	x	x	Min	---		
	6:30	59 21 7.6 S	40 5 1.9 W	10.0	269.5	1732	1735	4	2	5000	---	x	x	x	x	x	Min	---		
	7:00	59 21 5.7 S	40 15 0.1 W	10.2	266	2008	2017	4	2	5000	---	x	x	x	x	x	Min	---		
	7:30	59 21 3.3 S	40 24 8.3 W	10.0	248	2194	2196	4	2	5000	---	x	x	x	x	x	Min	---		
	8:00	59 20 8.2 S	40 34 7.5 W	10.2	273	2391	2400	4	2	5000	---	x	x	x	x	x	Min	---		
	8:30	59 20 8.0 S	40 44 6.1 W	10.3	286	2829	2823	4	2	5000	---	x	x	x	x	x	Min	---		
	9:00	59 20 3.4 S	40 53 9.5 W	10.1	286	3145	3136	4	2	5000	---	x	x	x	x	x	Min	---		
	9:30	59 20 7.6 S	41 03 20.4 W	10.0	288	3272	3286	4	2	5000	---	x	x	x	x	x	Min	---		
	10:00	59 25 2.3 S	41 12 4.6 W	9.7	287	3459	3446	4	2	5000	---	x	x	x	x	x	Min	---		
	10:30																			
	11:00																			
	11:30																			
	12:00																			
	12:30																			
	13:00																			
	13:30	59 27.438 S	41 23.437 W	10.5	320.3	3669.4	3686.0	4	2	5000	PAR-PILOT	x	x	x	x	x	Min		Station KOL PS 67/186-1	

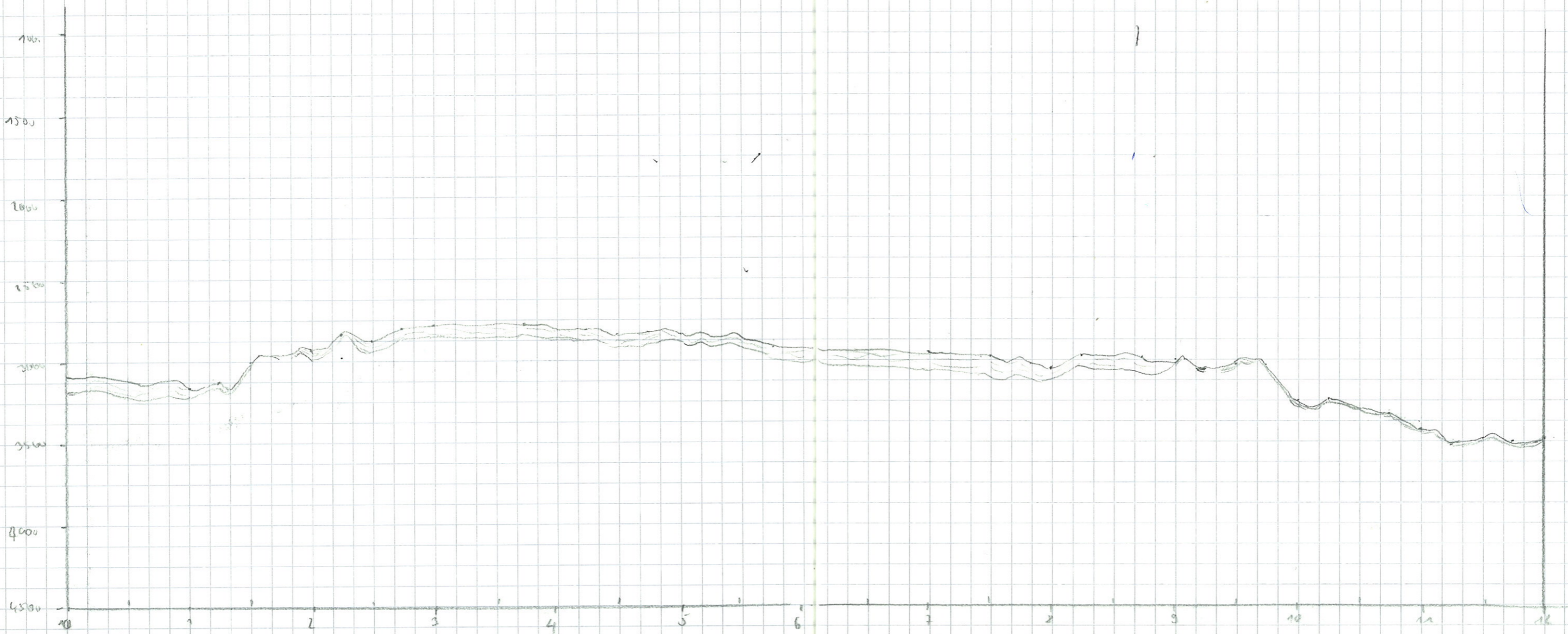


18	Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth MS	Temp	Pulse	D. Range	Sensor Operat. Modus	AUX	NBS	PAR	PAR PS3	Meto	Pulse Train Weight	Watch Keeper	Remarks	19
	14.04.05	14:00	59° 23.480 S	41° 30.445 W	10.4	320	3726.7	37390	4	2	5000	Par-Pilot	x	x	x	x	x	Min	Gregoronia	Axis Low gll = 300m (shit) forgot malassig 16:11 d. low gll = 200m	
		14:30	59° 19.563 S	41° 37.071 W	10.2	314.4	3924	3947	4	2	5000	- -	x	x	x	x	x				
		15:00	59° 15.891 S	41° 43.927 W	9.8	298.4	3984.9	4002.0	4	2	5000	- -	x	x	x	x	x				
		15:30	59° 13.280 S	41° 51.336 W	10.0	403.8	4075	4022	4	2	5000		x	x	x	x	x				
		16:00	59° 9.215 S	41° 57.781 W	10.0	326	3847	3850	4	2	5000		x	x	x	x	x				
		16:30	59° 4.796 S	42° 2.789 W	10.0	330	3964	3968	4	2	5000		x	x	x	x	x				
		17:00	59° 0.924 S	42° 8.473 W	10.2	321	3960	3974	4	2	5000		x	x	x	x	x				
		17:30	58° 57.172 S	42° 14.759 W	10.1	317	3915	3928	4	2	5000		x	x	x	x	x				
		18:00	58° 53.535 S	42° 20.780 W	10.0	323	3895	3973	4	2	5000		x	x	x	x	x				
		18:30	58° 49.991 S	42° 26.775 W	9.6	321	3657	3677	4	2	5000		x	x	x	x	x				
		19:00	58° 46.529 S	42° 32.579 W	9.3	321	3593	3615	4	2	5000		x	x	x	x	x				
		19:30	58° 43.198 S	42° 38.091 W	9.0	313	3582	3564	4	2	5000		x	x	x	x	x				
		20:00	58° 39.609 S	42° 44.131 W	8.1	320	3360	3394	4	2	5000		x	x	x	x	x		Bordes		
		20:30	58° 36.600 S	42° 49.084 W	8.3	318	3068	3082	4	2	5000		x	x	x	x	x				
		21:00	58° 33.600 S	42° 54.908 W	8.2	318	2915	2925	4	2	5000		x	x	x	x	x				
		21:30	58° 30.198 S	42° 59.697 W	8.8	324	2800	2808	4	2	5000		x	x	x	x	x				
		22:00	58° 27.940 S	43° 27.940 W	8.5	300	2999	2993	4	2	5000		x	x	x	x	x				
		22:30	58° 25.686 S	43° 13.037 W	8.2	302	3100	3084	4	2	5000		x	x	x	x	x				
		23:00	58° 23.646 S	43° 19.146 W	7.6	302.2	3090.4	3110	4	2	5000	- -	x	x	x	x	x				
		23:30	58° 21.546 S	43° 25.547 W	8.7	304.4	3115.2	3112	4	2	5000	Par-Pilot	x	x	x	x	x		Gregoronia		
	15.04.05	24:00	58° 19.501 S	43° 31.680 W	7.2	302.1	3118.8	3114.0	4	2	5000	- -	x	x	x	x	x				
		24:30	58° 17.507 S	43° 37.600 W	7.0	290.6	3116.7	3132.0	4	2	5000	- -	x	x	x	x	x				
		1:00	58° 15.494 S	43° 43.718 W	7.6	310.7	3101.0	3160	4	2	5000	- -	x	x	x	x	x				
		1:30	58° 13.521 S	43° 49.611 W	6.5	294.5	2991	2985	4	2	5000	- -	x	x	x	x	x				

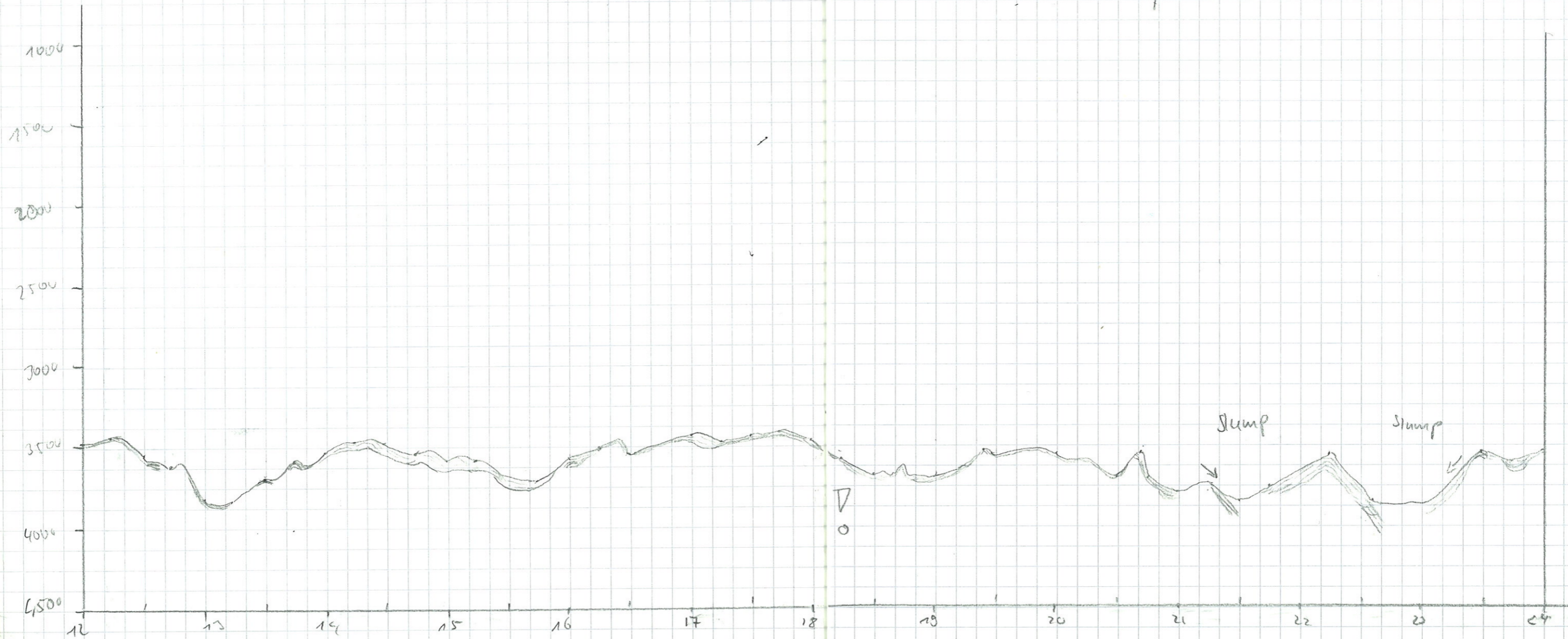
> 303.4 > 3147.9
 > 300.6 > 2965.3



20	Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	freq	Pulse	D.Range	Sensor operat. Modus	AUX	NBS	PAR	PAR PSB	Meta	Pulse Train height	Watch keeper	Remarks	21
	15.04.05	2:00	58° 11.552 S	43° 55.491 W	7.2	302.2	2906.1	2911	4	2	5000	Pav-Pilot	x	x	x	x	x	Min			
		2:30	58° 9.542 S	44° 1.512 W	8.7	299.3	2853.1	2865	4	2	5000	"	x	x	x	x	x	"	Siegowald		
		3:00	58° 7.555 S	44° 7.506 W	7.5	298.1	2770.9	2784	4	2	5000	"	x	x	x	x	x	"			
		3:30	58° 5.572 S	44° 13.43 W	8.0	300	2767	2750	4	2	5000	"	x	x	x	x	x	"			
		4:00	58° 3.490 S	44° 19.62 W	8.0	307	2707	2797	4	2	5000	"	x	x	x	x	x	"			
		4:30	58° 1.412 S	44° 25.80 W	8.0	300	2812	2825	4	2	5000	"	x	x	x	x	x	"			
		5:00	57° 59.257 S	44° 29.96 W	5.0	1-8	2942	2835	4	2	5000	"	x	x	x	x	x	"			
		5:30	57° 54.991 S	44° 30.00 W	9.5	357	2877	2883	4	2	5000	"	x	x	x	x	x	"			
		6:00	57° 50.196 S	44° 29.59 W	9.9	359	2904	2917	4	2	5000	"	x	x	x	x	x	"			
		6:30	57° 45.466 S	44° 30.01 W	10.0	0	2930	2943	4	2	5000	"	x	x	x	x	x	"			
		7:00	57° 40.728 S	44° 30.00 W	9.8	359	2938	2952	4	2	5000	"	x	x	x	x	x	"			
		7:30	57° 36.067 S	44° 30.016 W	9.1	209	2966	2956	4	2	5000	"	x	x	x	x	x	"			
		8:00	57° 31.357 S	44° 30.008 W	9.0	32	3104	3115	4	2	5000	"	x	x	x	x	x	"			
		8:30	57° 26.718 S	44° 29.899 W	9.5	13	2990	3001	4	2	5000	"	x	x	x	x	x	"			
		8:30	57° 22.180 S	44° 30.002 W	9.2	357	3045	3060	4	2	5000	"	x	x	x	x	x	"			
		8:30	57° 17.574 S	44° 29.995 W	9.8	24	3079	3029	4	2	5000	"	x	x	x	x	x	"		09.45.36 Anstieg Senkung	
		9:00	57° 12.879 S	44° 29.988 W	9.8	10	3243	3256	4	2	5000	"	x	x	x	x	x	"			
		9:00	57° 08.146 S	44° 29.997 W	8.6	29	3280	3278	4	2	5000	"	x	x	x	x	x	"			
		10:00	57° 2.713 S	44° 29.995 W	9.0	359.8	3442.3	3455	4	2	5000	"	x	x	x	x	x	"			
		11:00	56° 58.760 S	44° 30.015 W	8.3	358.8	3522.1	3530	4	2	5000	"	x	x	x	x	x	"			
		12:00	56° 54.279 S	44° 30.012 W	8.5	36.0	3452	3461	4	2	5000	"	x	x	x	x	x	"			
		12:30	56° 49.804 S	44° 30.006 W	9.4	358	3526.6	3527.0	4	2	5000	"	x	x	x	x	x	"			
		13:00	56° 45.321 S	44° 29.999 W	9.7	3.1	3780.9	3792	4	2	5000	"	x	x	x	x	x	"			
		13:30	56° 39.532 S	44° 30.005 W	8.8	357.7	3635.1	3647.0	4	2	5000	"	x	x	x	x	x	"			



22	Date	Time	Latitude	Longitude	Speed	Course	Depth (M)	Depth (MS)	Mag	Pulse	Di. Range	Seismic Operat. Mode	AUX	NBS	PAE	PAE (P3)	Retor	Probe Transm. Temp.	Watch Keeper	Remarks	23
15.04.05	14:00	56° 36' 474 S	44° 29' 993 W	8.5	5.4	3523.2	3543.0	4	2	5000	Par-Plot	x	x	x	x	x	x	Mim	Gregorowitz	Raman 45	
	14:30	56° 32' 633 S	44° 29' 942 W	7.8	354.4	3476.5	3488.0	4	2	5000	"	x	x	x	x	x	x	"			
	15:00	56° 28' 487 S	44° 29' 973 W	8.4	3.0	3570.8	3567.0	4	2	5000	"	x	x	x	x	x	x	"			
	15:30	56° 24' 323 S	44° 30' 008 W	8.2	3.2	3745	3757	4	2	5000	"	x	x	x	x	x	x	"			
	16:00	56° 20' 315 S	44° 30' 001 W	7.9	358	3668	3627	4	2	5000	"	x	x	x	x	x	x	"			
	16:30	56° 16' 377 S	44° 30' 002 W	8.7	359	3522	3534	4	2	5000	"	x	x	x	x	x	x	"			
	17:00	56° 12' 458 S	44° 29' 977 W	7.7	359	3472	3423	4	2	5000	"	x	x	x	x	x	x	"			
	17:30	56° 8' 530 S	44° 29' 968 W	7.9	2.4	3415	3427	4	2	5000	"	x	x	x	x	x	x	"			
	18:00	56° 4' 747 S	44° 29' 994 W	7.7	358	3482	3486	4	2	5000	"	x	x	x	x	x	x	"			
	18:30	56° 0' 974 S	44° 29' 975 W	7.6	357	3647	3655	4	2	5000	"	x	x	x	x	x	x	"			
	19:00	55° 57' 077 S	44° 29' 969 W	7.6	3.4	3660	3675	4	2	5000	"	x	x	x	x	x	x	"			
	19:30	55° 53' 304 S	44° 30' 016 W	7.8	357	3544	3554	4	2	5000	"	x	x	x	x	x	x	"			
	20:00	55° 49' 474 S	44° 30' 007 W	8.5	1.5	3579	3578	4	2	5000	"	x	x	x	x	x	x	"			
	20:30	55° 45' 630 S	44° 30' 021 W	7.3	2.8	3695	3711	4	2	5000	"	x	x	x	x	x	x	"			
	21:00	55° 41' 650 S	44° 29' 999 W	7.7	5.3	3757	3770	4	2	5000	"	x	x	x	x	x	x	"			
	21:30	55° 37' 793 S	44° 29' 980 W	8.2	2.5	3810	3825	4	2	5000	"	x	x	x	x	x	x	"			
	22:00	55° 33' 783 S	44° 29' 979 W	8.5	5.0	3673	3676	4	2	5000	"	x	x	x	x	x	x	"			
	22:30	55° 29' 659 S	44° 29' 994 W	8.1	359	3704	3718	4	2	5000	"	x	x	x	x	x	x	"			
23:00	55° 25' 666 S	44° 29' 992 W	8.2	1.5	3775	3790	4	2	5000	"	x	x	x	x	x	x	"				
23:30	55° 21' 598 S	44° 30' 003 W	7.9	2.0	3530.8	3553.0	4	2	5000	"	x	x	x	x	x	x	"				
16.04.05	24:00	55° 17' 463 S	44° 30' 010 W	8.1	2.5	3557	3574	4	2	5000	"	x	x	x	x	x	x	"			
	24:30	55° 13' 162 S	44° 29' 983 W	8.7	2.9	3631.4	3647.0	4	2	5000	"	x	x	x	x	x	x	"			
	1:00	55° 8' 865 S	44° 30' 008 W	8.8	6.7	3418.8	3464.0	4	2	5000	"	x	x	x	x	x	x	"			
	1:30	55° 4' 547 S	44° 29' 997 W	8.8	1.4	3624.1	3631.0	4	2	5000	"	x	x	x	x	x	x	"			



Date	Time	Latitude	Longitude	Speed	Course	Depth (PS)	Depth (MS)	Freq	Pole	D. Range	Sensor Operat. Modus	AUX	NBS	PAR	PAR (P3)	Meta	Poise, Train Length	Hatch keeper	Remarks
16.04.05	2:00	55° 0.242 S	44° 29.968 W	8.3	0.0	3592.1	3606.0	4	2	5000	Par-Prot	x	x	x	x	x	Miu		
	2:30	54° 55.531 S	44° 30.003 W	9.8	0.3	3803.3	3902.0	4	2	5000	"	x	x	x	x	x	"		
	3:00	54° 51.70 S	44° 30.012 W	9.8	1.0	3717	3737	4	2	5000	"	x	x	x	x	x	"		
	3:30	54° 45.90 S	44° 30.03 W	9.5	356	2857	2796	4	2	5000	"	x	x	x	x	x	"		
	4:00	54° 41.56 S	44° 29.950 W	9.2	258	3736	3830	4	2	5000	"	x	x	x	x	x	"		
	4:30	54° 39.13 S	44° 25.760 W	9.6	93.6	4932	4945	4	2	5000	"	x	x	x	x	x	"		
	5:00	54° 42.41 S	44° 23.567 W	9.4	176	3733	3860	4	2	5000	"	x	x	x	x	x	"		
	5:30	54° 46.89 S	44° 23.551 W	9.6	184	3476	3657	4	2	5000	"	x	x	x	x	x	"		
	6:00	54° 51.50 S	44° 23.558 W	9.0	179	4170	4107	4	2	5000	"	x	x	x	x	x	"		
	6:30	54° 56.12 S	44° 23.552 W	9.6	179	3576	3593	4	2	5000	"	x	x	x	x	x	"		
	7:00	55° 0.98 S	44° 23.532 W	10.0	186	3520	3527	4	2	5000	"	x	x	x	x	x	"		
	7:30	55° 05.789 S	44° 23.551 W	9.9	176.8	3652	3649	4	2	5000	"	x	x	x	x	x	"		
	8:00	55° 10.776 S	44° 23.559 W	9.8	183	3456	3457	4	2	5000	"	x	x	x	x	x	"		
	8:30	55° 15.765 S	44° 23.562 W	10.3	178	3748	3706	4	2	5000	"	x	x	x	x	x	"		
	9:00	55° 20.881 S	44° 23.547 W	10.4	178	3735	3753	4	2	5000	"	x	x	x	x	x	"		
	9:30	55° 25.781 S	44° 23.562 W	10.2	183	3643	3627	4	2	5000	"	x	x	x	x	x	"		
	10:00	55° 30.942 S	44° 23.546 W	9.8	186	3743	3753	4	2	5000	"	x	x	x	x	x	"		
	10:30	55° 35.817 S	44° 23.550 W	9.6	185	3648	3676	4	2	5000	"	x	x	x	x	x	"		
	11:00	55° 40.830 S	44° 23.559 W	10.6	187	3717	3772	4	2	5000	"	x	x	x	x	x	"		
	11:30	55° 46.009 S	44° 23.550 W	9.9	177.6	3477.6	3523.0	4	2	"	"	x	x	x	x	x	"		
	12:00	55° 51.150 S	44° 23.539 W	9.5	179.1	3453.8	3454.0	4	2	5000	"	x	x	x	x	x	"		
	12:30	55° 55.898 S	44° 23.549 W	10	178.5	3441.6	3455.0	4	2	"	"	x	x	x	x	x	"		
	13:00	56° 0.898 S	44° 23.507 W	10	182.8	3604.4	3618.0	4	2	5000	"	x	x	x	x	x	"		
	13:30	56° 5.866 S	44° 23.540 W	10.7	178.6	3507.7	3526.0	4	2	"	"	x	x	x	x	x	"		

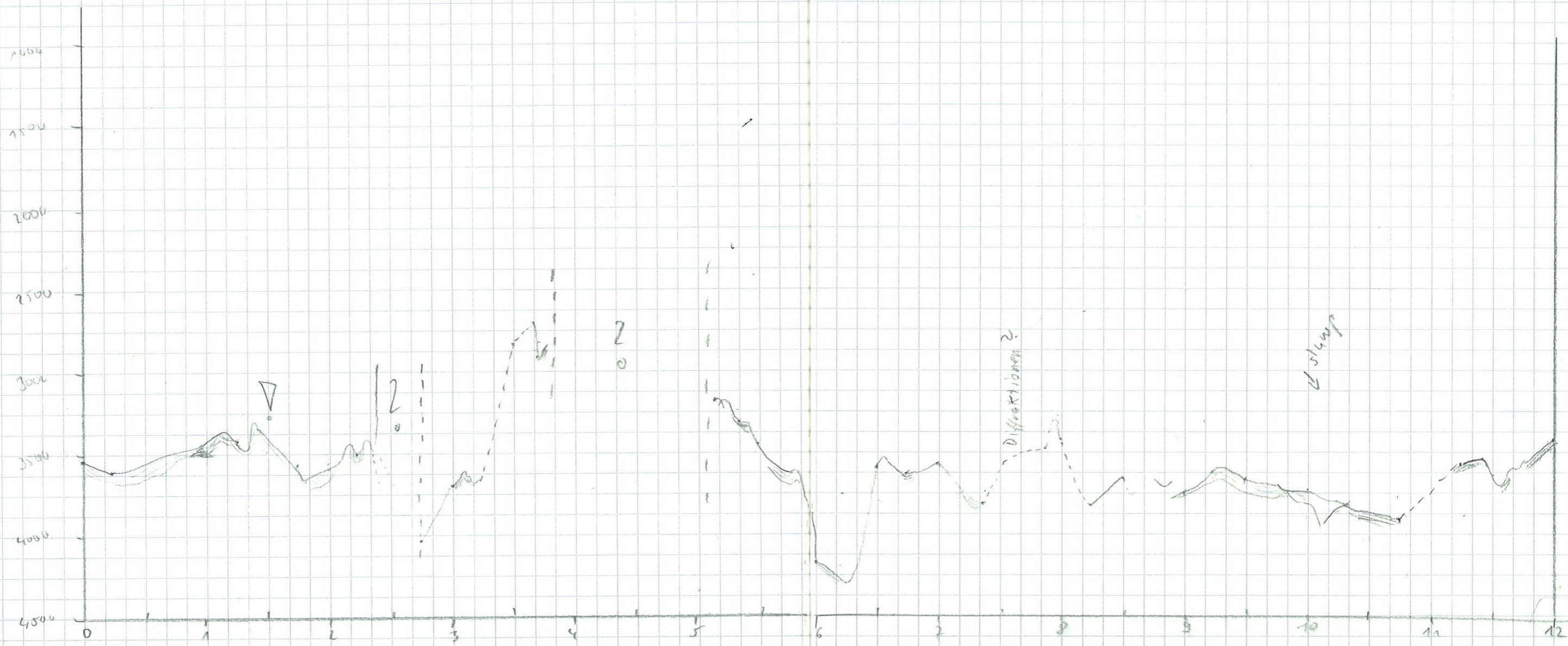
Stimandic

Boiler

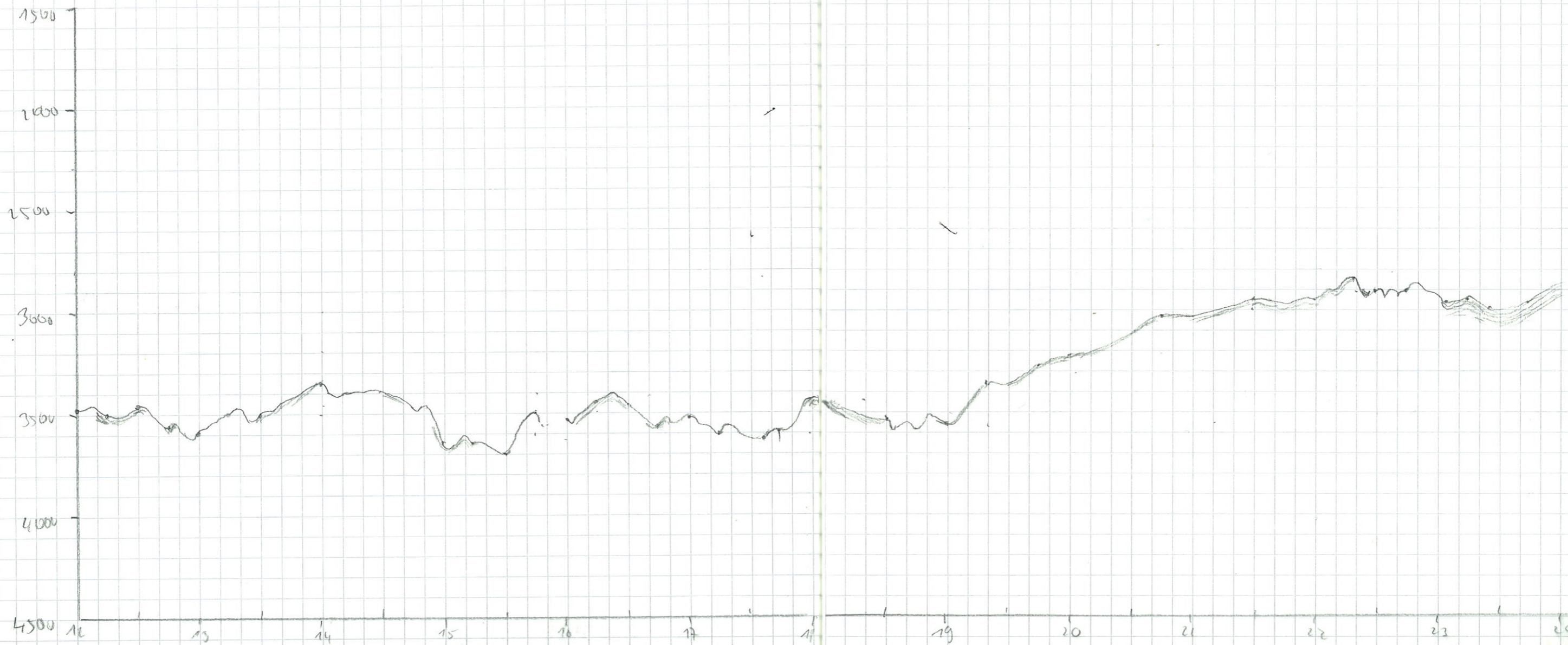
Gregorian

Lat. 16 direction change
Erd Prof. 188 Point 2

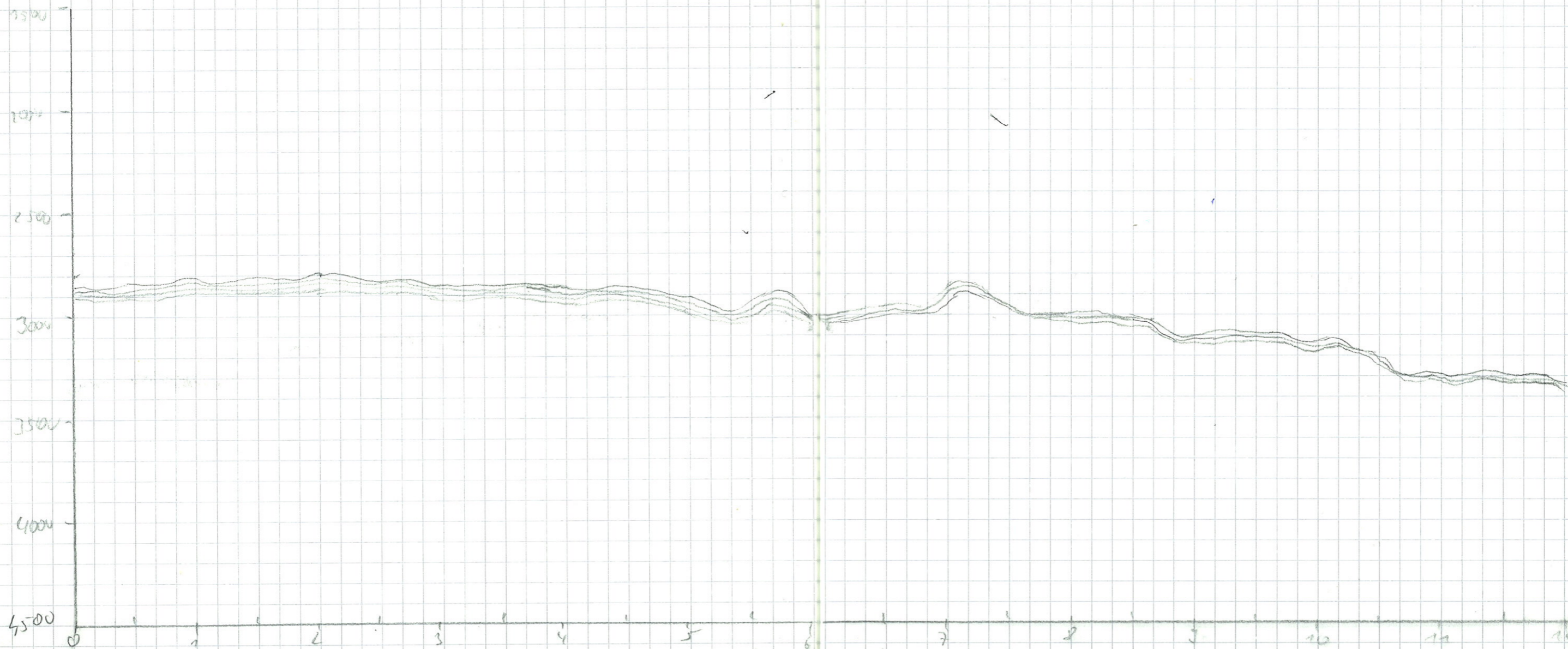
sch. stark Vannan
das Tief nicht sichtbar
08:20: Schallspiegel, Diffractionen
08:40: Sturm
10:15: Sturm



Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D. Range	Sensor Operat Modus	AUX	NBS	PAR	PAR (PB)	Meta	Pulse Train Length	Hatch keeper	Remarks	
16.04.05	14:00	56° 10.500 S	44° 23.561 W	10.5	180.0	3360.9	3376.0	4	2	5000	Pov Pbt	x	x	x	x	x	Min	Sjundic		
	14:30	56° 16.039 S	44° 23.541 W	9.7	177.2	3394.2	3401.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
	15:00	56° 21.078 S	44° 23.536 W	10.1	171.4	3668.6	3677.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
	15:30	56° 26.036 S	44° 23.559 W	9.7	177.8	3730	3716	4	2	-11-	-11-	x	x	x	x	x	-11-			
	16:00	56° 31.042 S	44° 23.544 W	10.0	182	3518	3527	4	2	-11-	-11-	x	x	x	x	x	-11-			
	16:30	56° 35.965 S	44° 23.554 W	9.6	181	3462	3463	4	2	-11-	-11-	x	x	x	x	x	-11-			
	17:00	56° 40.789 S	44° 23.550 W	9.4	187	3538	3561	4	2	-11-	-11-	x	x	x	x	x	-11-			
	17:30	56° 45.606 S	44° 23.568 W	9.9	180	3630	3636	4	2	-11-	-11-	x	x	x	x	x	-11-			
	18:00	56° 50.436 S	44° 23.572 W	9.3	176	3446	3442	4	2	-11-	-11-	x	x	x	x	x	-11-			
	18:30	56° 55.074 S	44° 23.558 W	9.6	186	3537	3557	4	2	-11-	-11-	x	x	x	x	x	-11-			
	19:00	56° 59.727 S	44° 23.557 W	8.9	177	3557	3560	4	2	-11-	-11-	x	x	x	x	x	-11-			
	19:30	57° 04.264 S	44° 23.574 W	9.2	181	3386	3385	4	2	-11-	-11-	x	x	x	x	x	-11-			
	20:00	57° 08.803 S	44° 23.540 W	8.9	176	3242	3240	4	2	-11-	-11-	x	x	x	x	x	-11-			
	20:30	57° 13.453 S	44° 23.549 W	9.0	179	3149	3136	4	2	-11-	-11-	x	x	x	x	x	-11-			
	21:00	57° 18.111 S	44° 23.572 W	8.4	182	3052	3046	4	2	-11-	-11-	x	x	x	x	x	-11-			
	21:30	57° 22.708 S	44° 23.577 W	8.9	176	3004	2998	4	2	-11-	-11-	x	x	x	x	x	-11-			
	22:00	57° 27.399 S	44° 23.552 W	8.6	185	2971	2960	4	2	-11-	-11-	x	x	x	x	x	-11-			
	22:30	57° 31.998 S	44° 23.554 W	8.2	182	2908	2895	4	2	-11-	-11-	x	x	x	x	x	-11-			
	23:00	57° 36.801 S	44° 23.546 W	9.2	185.6	2967.5	2965	4	2	-11-	-11-	x	x	x	x	x	-11-			
	23:30	57° 41.164 S	44° 23.555 W	9.5	180.1	3003	3007.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
	24:05	57° 46.621 S	44° 23.545 W	9.5	182.7	2909.3	2921.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
	17.04.05	24:30	57° 50.389 S	44° 23.560 W	9.0	184.0	2885.9	2897.0	4	2	-11-	-11-	x	x	x	x	x	-11-		Sjundic
		1:00	57° 54.983 S	44° 23.539 W	8.4	177.9	2851.8	2865.0	4	2	-11-	-11-	x	x	x	x	x	-11-		
		1:30	57° 59.562 S	44° 23.562 W	9.3	193.5	2823.5	2825.0	4	2	-11-	-11-	x	x	x	x	x	-11-		

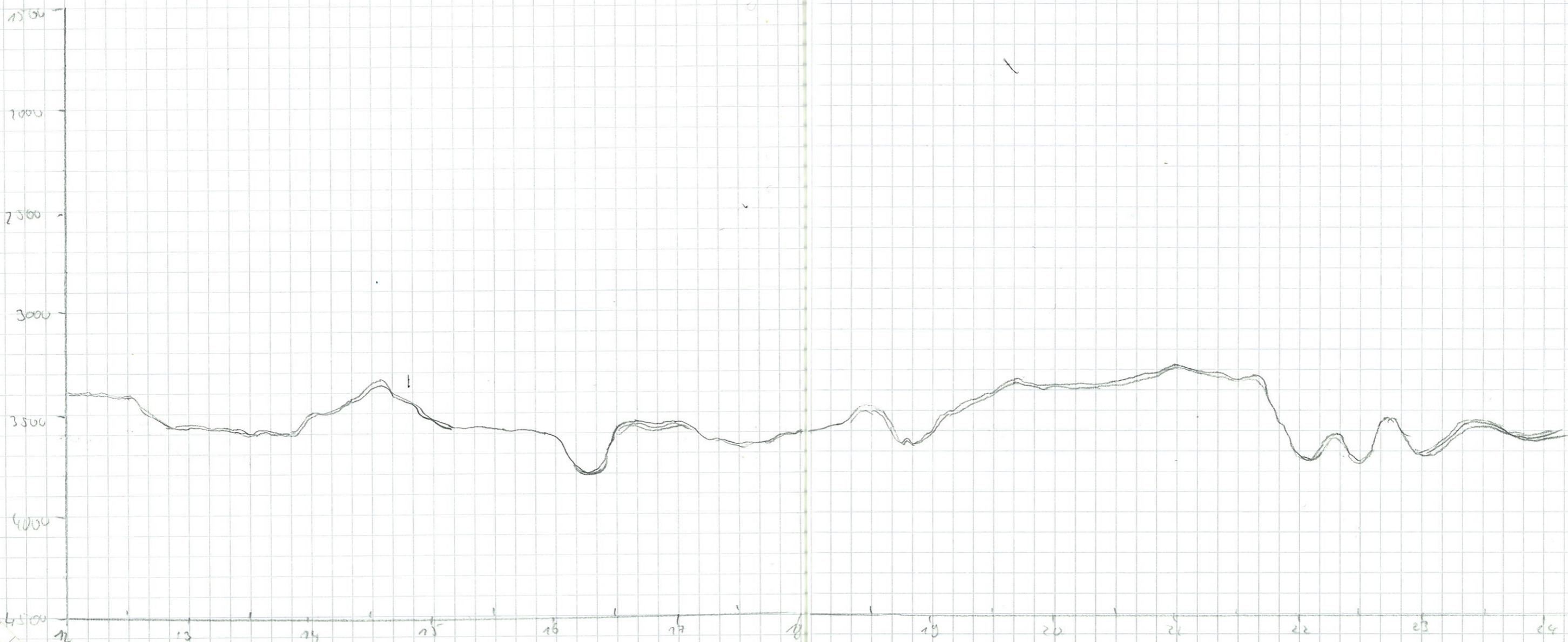


Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq	Pulse	D. Range	Sensor Operat. Modus	AUX	NBS	PAR	PAR P3	Meta	Pulse Train Length	Watch keeper	Remarks
17.04.05	2:00	58° 2' 113 S	44° 17' 903 W	8.4	90.2	2793.8	2805.0	4	2	5000	Par-Pilot	x	x	x	x	x	Min.		
	2:30	57° 59' 342 S	44° 16' 987 W	5.7	85.3	2816.3	2827.0	4	2	-11-	-11-	x	x	x	x	x	-11-	Gregoria	
	3:00	57° 56' 950 S	44° 17' 006 W	5.8	6.2	2840.5	2850.0	4	2	-11-	-11-	x	x	x	x	x	-11-		
	3:30	57° 5' 6096 S	44° 16' 975 W	5.5	6.1	2867	2855	4	2	-11-	-11-	x	x	x	x	x	-11-		
	4:00	57° 51' 424 S	44° 16' 974 W	5.7	4.6	2855	2869	4	2	-11-	-11-	x	x	x	x	x	-11-		
	4:30	57° 49' 951 S	44° 16' 979 W	5.7	8.5	2877	2878 U	4	2	-11-	-11-	x	x	x	x	x	-11-		
	5:00	57° 46' 162 S	44° 16' 985 W	5.7	3.6	2897	2893	4	2	-11-	-11-	x	x	x	x	x	-11-		
	5:30	57° 43' 390 S	44° 16' 966 W	5.7	3.5	2950	2954	4	2	-11-	-11-	x	x	x	x	x	-11-		
	6:00	57° 40' 229 S	44° 12' 077 W	7.0	3.5	2926	2960	4	2	-11-	-11-	x	x	x	x	x	-11-		
	6:30	57° 37' 056 S	44° 16' 975 W	6.6	3.5	2878	2890	4	2	-11-	-11-	x	x	x	x	x	-11-		
	7:00	57° 33' 572 S	44° 16' 969 W	6.5	3.5	2872	2882	4	2	-11-	-11-	x	x	x	x	x	-11-		
	7:30	57° 30' 548 S	44° 17' 005 W	7.4	3.5	2836	2848	4	2	-11-	-11-	x	x	x	x	x	-11-		
	8:00	57° 27' 053 S	44° 17' 032 W	7.3	3.5	2893	2902	4	2	-11-	-11-	x	x	x	x	x	-11-		
	8:30	57° 23' 275 S	44° 16' 987 W	6.8	3.5	3017	3020	4	2	5000	-11-	x	x	x	x	x	-11-		
	9:00	57° 19' 839 S	44° 17' 002 W	7.2	13	3051	3062	4	2	5000	-11-	x	x	x	x	x	-11-		
	9:30	57° 16' 148 S	44° 16' 978 W	7.2	4.6	3125	3135	4	2	5000	-11-	x	x	x	x	x	-11-		
	10:00	57° 12' 678 S	44° 17' 000 W	5.8	3.5	3153	3168	4	2	5000	-11-	x	x	x	x	x	-11-		
	10:30	57° 09' 070 S	44° 16' 997 W	7.0	3.5	3292	3242	4	2	5000	-11-	x	x	x	x	x	-11-		
	11:00	57° 5' 451 S	44° 16' 993 W	7.8	3.5	33073	3314.0	4	2	5000	-11-	x	x	x	x	x	-11-		
	11:30	57° 1' 825 S	44° 17' 009 W	7.5	7.4	3313.7	3325.0	4	2	-11-	-11-	x	x	x	x	x	-11-		
	12:00	56° 58' 047 S	44° 17' 005 W	7.4	360.0	3345.3	3356.0	4	2	-11-	-11-	x	x	x	x	x	-11-		
	12:30	56° 54' 117 S	44° 17' 008 W	7.5	2.9	3388.3	3398.0	4	2	-11-	-11-	x	x	x	x	x	-11-		
	13:00	56° 50' 162 S	44° 16' 991 W	8.4	5.7	3567.5	3580.0	4	2	-11-	-11-	x	x	x	x	x	-11-		
	13:30	56° 46' 263 S	44° 16' 989 W	7.5	363.1	3571.0	3575.0	4	2	-11-	-11-	x	x	x	x	x	-11-		

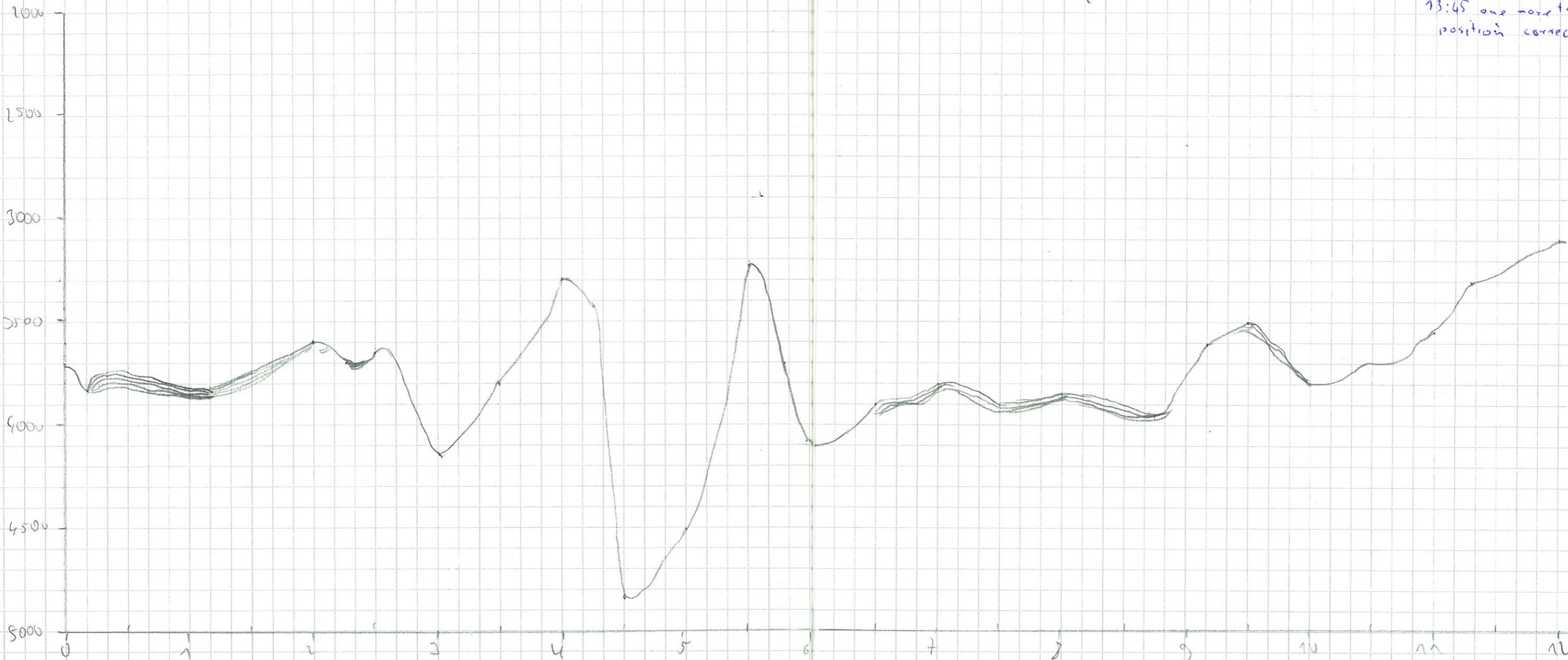


Gregoria
Boule
Gregoria

30	Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq	Pulse	D. Range	Sensor Operat Modus	AUX	NBS	PAR	PAR P3	Metq	Pulse Train Length	Watch Keeper	Remarks	31
	17.04.05	14:00	56° 42.315 S	44° 16.999 W	7.9	7.3	3623.7	3638.0	4	2	5000	Par-Pilot	x	x	x	x	x	Mim	Gregorius		
		14:30	56° 38.297 S	44° 16.963 W	7.8	354.5	3479.5	3484	4	2	5000	- -	x	x	x	x	x	- -			
		15:00	56° 34.301 S	44° 16.991 W	8.4	350.2	3483.6	3487	4	2	5000	- -	x	x	x	x	x	- -			
		15:30	56° 30.257 S	44° 16.977 W	8.3	357	3563	3580	4	2	5000	- -	x	x	x	x	x	- -			
		16:00	56° 26.012 S	44° 16.979 W	8.5	357	3633	3643	4	2	5000	- -	x	x	x	x	x	- -			
		16:30	56° 21.787 S	44° 17.020 W	9.1	358	3708	3725	4	2	5000	- -	x	x	x	x	x	- -			
		17:00	56° 17.690 S	44° 17.012 W	8.2	358	3539	3546	4	2	5000	- -	x	x	x	x	x	- -			
		17:30	56° 16.725 S	44° 16.850 W	7.9	347	3444	3510	4	2	5000	- -	x	x	x	x	x	- -		17:07 no denth (HS) Course change to 350 Schleife	
		18:00	56° 12.570 S	44° 16.982 W	7.5	353	3572	3580	4	2	5000	- -	x	x	x	x	x	- -			
		18:30	56° 8.420 S	44° 16.975 W	6.7	350	3516	3525	4	2	5000	- -	x	x	x	x	x	- -			
		19:00	56° 4.555 S	44° 16.996 W	7.1	3.2	3571	3574	4	2	5000	- -	x	x	x	x	x	- -			
		19:30	56° 0.623 S	44° 16.993 W	7.9	7.0	3437	3455	4	2	5000	- -	x	x	x	x	x	- -			
		20:00	55° 56.228 S	44° 17.006 W	9.8	7.9	3344	3353	4	2	5000	- -	x	x	x	x	x	- -			
		20:30	55° 51.860 S	44° 16.995 W	9.5	1.2	3368	3382	4	2	5000	- -	x	x	x	x	x	- -			
		21:00	55° 47.511 S	44° 17.000 W	8.1	348	3252	3262	4	2	5000	- -	x	x	x	x	x	- -			
		21:30	55° 43.149 S	44° 17.008 W	9.3	358.5	3301.0	3310.0	4	2	5000	- -	x	x	x	x	x	- -			
		22:00	55° 38.400 S	44° 17.012 W	8.7	358	3428.6	3476.0	4	2	5000	- -	x	x	x	x	x	- -			
		22:30	55° 34.507 S	44° 17.012 W	8.3	357.2	3763	3766	4	2	- -	- -	x	x	x	x	x	- -			
		23:00	55° 30.052 S	44° 16.997 W	9.1	358.0	3702.6	3720.0	4	2	- -	- -	x	x	x	x	x	- -		23:14 core position	
		23:30	55° 25.712 S	44° 16.983 W	8.4	356	3532.2	3549.0	4	2	- -	- -	x	x	x	x	x	- -			
	18.04.05	00:00	55° 21.327 S	44° 17.010 W	8.5	359	3708.5	3719.0	4	2	- -	- -	x	x	x	x	x	- -		sehr mächtige Sed. ⇒ Bohrung? ↳ 0-24 über	
		01:00	55° 16.923 S	44° 17.002 W	8.8	358	3731.5	3750	4	2	- -	- -	x	x	x	x	x	- -		Stump, gut überdeckt	
		01:30	55° 12.507 S	44° 16.996 W	9.4	2.3	3804.2	3831.0	4	2	- -	- -	x	x	x	x	x	- -		Quelle = Bohrung	
			55° 08.068 S	44° 16.992 W	8.9	11.7	3850	3867	4	2	- -	- -	x	x	x	x	x	- -			

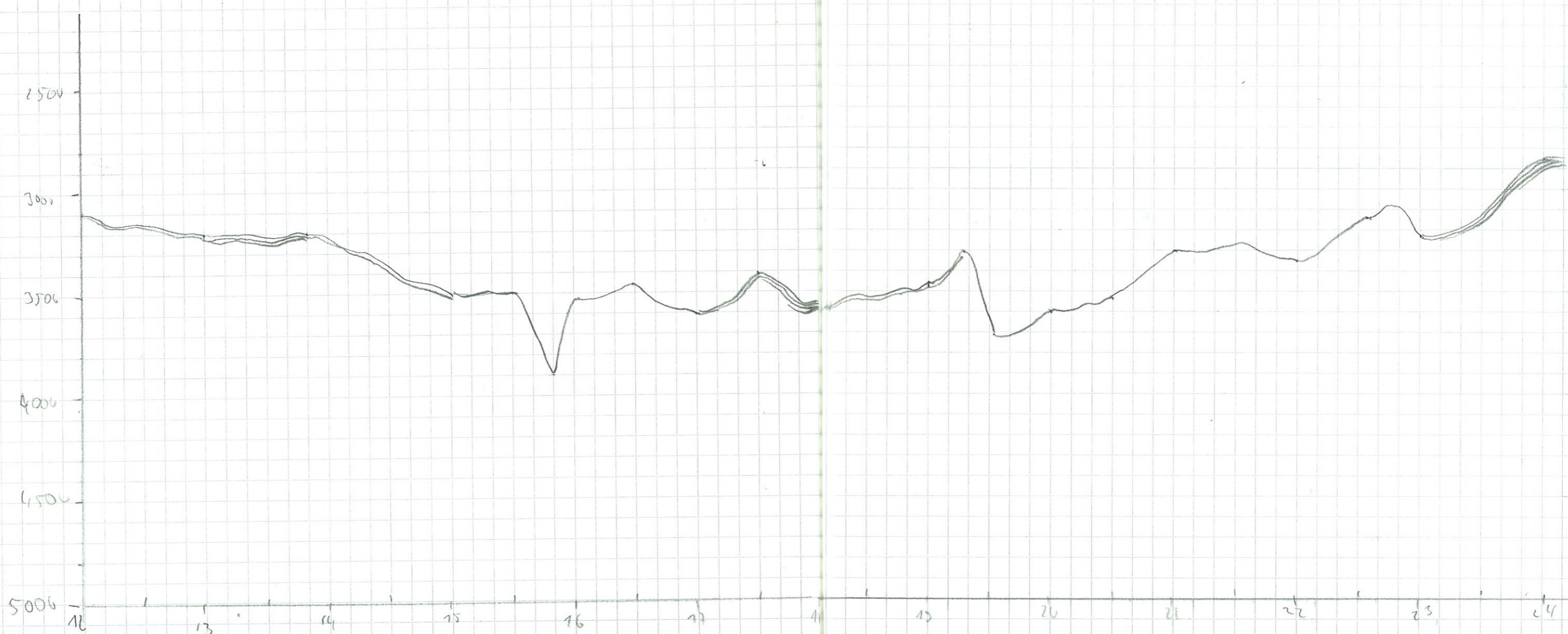


32 Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D.Range	Sensor Operat. Modus	AUX	NBS	PAR	PAR P3	Meta	Pulse Train Length	Watch keeper	Remarks	33	
18.04.05	2:00	55° 03' 50" S	44° 17' 00" W	9.4	359	3589	3603	4	2	5000	PAR-Pilot	x	-	-	-	x	Min	Booby			
	2:30	54° 59' 16" S	44° 17' 00" W	9.8	62	3570	3548	4	2	5000	PAR-Pilot	x	-	-	-	x	-11-				
	3:00	54° 54' 21" S	44° 16' 38" W	10.3	355	3335	4013	4	2	5000	-	x	-	-	-	x	-11-				
	3:30	54° 49' 53" S	44° 16' 38" W	9.7	354	3769	3789	4	2	5000	-	x	-	-	-	x	-11-				
	4:00	54° 44' 66" S	44° 16' 38" W	9.7	357	3096	3129	4	2	"	"	x	-	-	-	x	-11-				
	4:30	54° 41' 40" S	44° 16' 38" W	8.8	192	4625	4139	4	2	15000	x	x	x	-	-	x	rod				
	5:00	54° 29' 38" S	44° 16' 58" W	9.3	76	4874	4850	4	2	15000	-	x	x	x	-	x	rod				
	5:30	54° 45' 31" S	44° 10' 43" W	8.9	180	3277	3281	4	2	5000	-	x	x	x	-	x	Min				Mini-Sunny 05=42
	6:00	54° 50' 51" S	44° 11' 01" W	9.4	177	4094	4106	4	2	5000	-	x	x	x	-	x	Min				06.40 inkon - Shrike
	6:30	54° 55' 25" S	44° 10' 39" W	10.0	180	3333	3954	4	2	5000	-	x	x	x	-	x	Min				AD Converter Tavam. 32dB
	7:00	54° 59' 36" S	44° 10' 35" W	9.7	188	3788	3832	4	2	5000	-	x	x	x	-	x	Min				
	7:30																			08.16 Booby point 80m	
	8:00																				
	8:30																				
	9:00	55° 19' 139" S	44° 10' 99" W	9.7	177	3796.1	3815.0	4	2	5000	-	x	x	x	-	x	Min	Gregorin			
	9:30	55° 23' 849" S	44° 11' 009" W	9.9	181	3473.7	3485.0	4	2	-	-	x	x	x	-	x	-11-				
	10:00	55° 28' 600" S	44° 11' 008" W	9.2	175.1	3718.0	3706.0	4	2	-	-	x	x	x	-	x	-11-				
	10:30	55° 33' 357" S	44° 11' 003" W	9.4	175.4	3483.3	3491.0	4	2	-	-	x	x	x	-	x	-11-				
	11:00	55° 38' 231" S	44° 11' 009" W	9.2	180	3400.7	3397.0	4	2	-	-	x	x	x	-	x	-11-				
	11:30	55° 39' 702" S	44° 11' 471" W	8.7	91	3293.8	3312.0	4	2	-	-	x	x	x	-	x	-11-				
	12:00	55° 44' 173" S	44° 10' 999" W	8.8	175.3	3064.9	3075.0	4	2	-	-	x	x	x	-	x	-11-				
	12:30	55° 48' 700" S	44° 10' 554" W	9.3	180.9	3081.8	3051.0	4	2	-	-	x	x	x	-	x	-11-				
	13:00	55° 53' 041" S	44° 11' 854" W	9.7	181.4	3192.8	3207.0	4	2	-	-	x	x	x	-	x	-11-				
	13:30	55° 55' 451" S	44° 12' 643" W	7.6	36.7	3219	3237	4	2	-	-	x	x	x	-	x	-11-				3:30 turn around for Heli

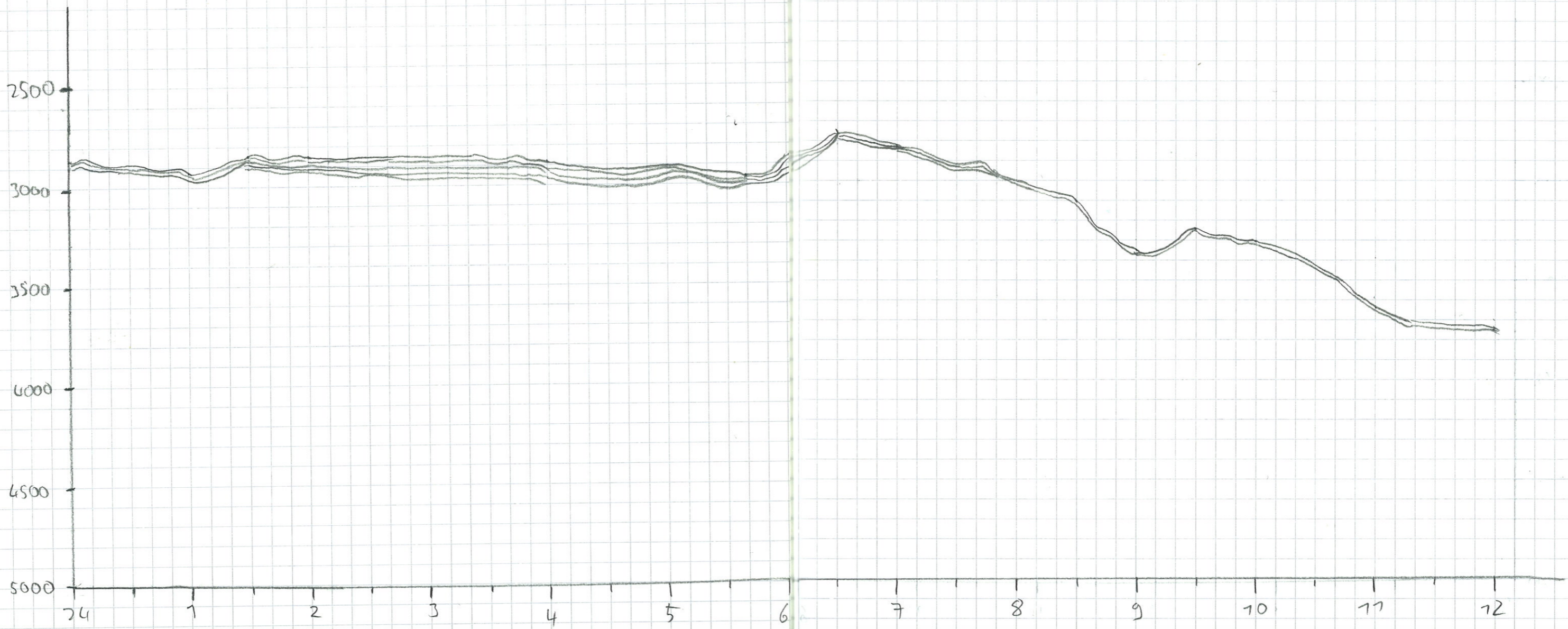


3:30 turn around for Heli
 13:45 one more turn around
 position correction

34 Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq	Pulse	D. Range	Sensor Operat. Modus	AUX	NBS	PAR	PAR PS	Meta	Pulse Train Length	Watch Keeper	Remarks	35	
18.04.05	14:00	55° 57.359 S	44° 11.708 W	8.2	185	3277	3223	4	2	5000	PAR-Pilot	x	x	x	x	x	Min	Simmundic	1722-1724 Falscher Display		
	14:30	56° 20.118 S	44° 11.809 W	9.6	179	3697	3498	4	2	5000	"	x	x	x	x	x	"				
	15:00	56° 6.945 S	44° 11.791 W	9.6	181	3522	3533	4	2	5000	"	x	x	x	x	x	"				
	15:30	56° 11.608 S	44° 11.792 W	8.8	185	3619	3623	4	2	5000	"	x	x	x	x	x	"				
	16:00	56° 16.222 S	44° 11.809 W	8.3	246	3679	3776	4	2	5000	"	x	x	x	x	x	"				
	16:30	56° 18.900 S	44° 11.809 W	9.1	183	3409	3427	4	2	5000	"	x	x	x	x	x	"				
	17:00	56° 23.523 S	44° 11.806 W	9.7	177	3755	3765	4	2	5000	"	x	x	x	x	x	"				
	17:30	56° 28.201 S	44° 11.795 W	9.7	176	3438	3410	4	2	5000	"	x	x	x	x	x	"				
	18:00	56° 32.851 S	44° 11.800 W	9.6	180	3553	3562	4	2	5000	"	x	x	x	x	x	"				
	18:30	56° 37.161 S	44° 10.902 W	8.5	77	3438	3443	4	2	5000	"	x	x	x	x	x	"				
	19:00	56° 40.761 S	44° 11.825 W	9.4	175	3474	3484	4	2	5000	"	x	x	x	x	x	"				
	19:30	56° 45.582 S	44° 11.788 W	9.6	182	3724	3734	4	2	5000	"	x	x	x	x	x	"				
	20:00	56° 50.329 S	44° 11.814 W	9.2	184	3573	3582	4	2	5000	"	x	x	x	x	x	"				
	20:30	56° 55.226 S	44° 11.804 W	10.1	178.4	3482.0	3462.8	4	2	5000	"	x	x	x	x	x	"				
	21:00	57° 0.247 S	44° 11.790 W	10.4	178.1	3280.3	3300	4	2	5000	"	x	x	x	x	x	"				
	21:30	57° 5.239 S	44° 11.806 W	10.0	170	3253.5	3260	4	2	-11-	-11-	x	x	x	x	x	-11-				
	22:00	57° 10.268 S	44° 11.789 W	10.3	182	3337.9	3344.0	4	2	-11-	-11-	x	x	x	x	x	-11-				
	22:30	57° 15.405 S	44° 11.798 W	10.0	180.3	3168.1	3177.0	4	2	-11-	-11-	x	x	x	x	x	-11-				
	23:00	57° 20.453 S	44° 11.813 W	10.0	178.3	3167.0	3176.0	4	2	-11-	-11-	x	x	x	x	x	-11-				
	23:30	57° 25.540 S	44° 11.796 W	9.5	177.9	2937.6	2952.0	4	2	-11-	-11-	x	x	x	x	x	-11-				
	19.04.05	24:00	57° 30.543 S	44° 11.798 W	9.5	181.1	2866.9	2879.0	4	2	-11-	-11-	x	x	x	x	x				-11-
		24:30	57° 35.594 S	44° 11.818 W	10.2	182	2870.9	2879.0	4	2	-11-	-11-	x	x	x	x	x				-11-
		1:00	57° 40.554 S	44° 11.754 W	9.7	182	2922.6	2934.0	4	2	-11-	-11-	x	x	x	x	x				-11-
		1:30	57° 45.369 S	44° 11.816 W	9.7	182	2847	2857	4	2	-11-	-11-	x	x	x	x	x				-11-



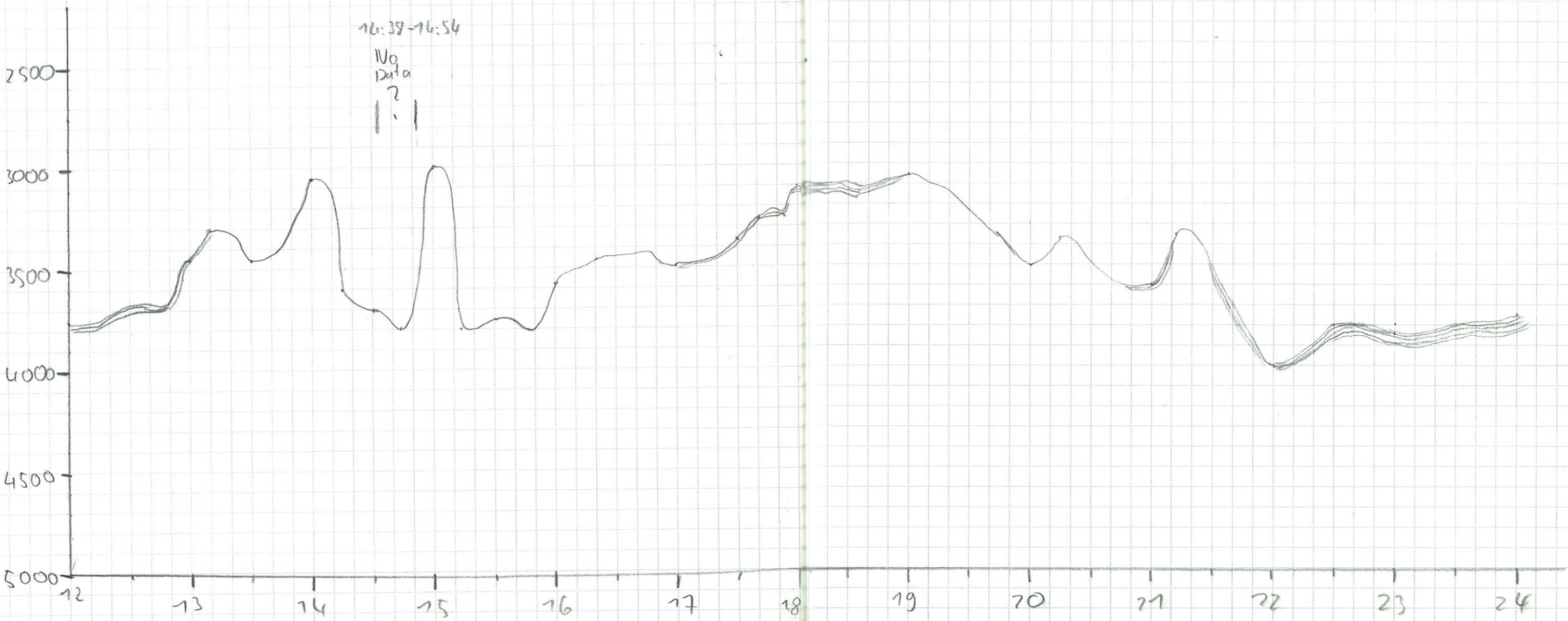
36	Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Trkg	Pulse	D. Range	Sensor Operat. Modus	AUX	NBS	PAR	PAR P3	Meta	Pulse Train length	Watch keeper	Remarks	37
	19.04.05	2:00	57 50 282 S	44 11 832 W	10.3	175	2854	2866	4	2	5000	PAR-Pilot	~	~	~	~	~	~		01:50 Bohrpunkt	
		2:30	57 55 284 S	44 11 785 W	9.9	181	2849	2857	4	2	-11-	-11-								02:05 -11- propa. period	
		3:00	58 00 022 S	44 11 233 W	9.1	87	2823	2834	4	2	-11-	-11-									
		3:30	57 57 963 S	44 06 282 W	9.5	19	2885	2893	4	2	-11-	-11-									
		4:00	57 53 648 S	44 06 282 W	8.6	357	2868	2880	4	2	-11-	-11-									
		4:30	57 49 242 S	44 06 304 W	8.7	0.6	2875	2884	4	2	-11-	-11-									
		5:00	57 44 969 S	44 06 282 W	8.8	0.4	2865	2877	4	2	-11-	-11-									
		5:30	57 40 509 S	44 06 275 W	8.6	357	2929	2943	4	2	-11-	-11-									
		6:00	57 36 050 S	44 06 320 W	9.5	0.9	2855	2858	4	2	-11-	-11-									
		6:30	57 31 609 S	44 06 301 W	9.3	0.9	2729	2752	4	2	-11-	-11-									
		7:00	57 27 160 S	44 06 293 W	9.5	8.4	2826	2834	4	2	-11-	-11-									
		7:30	57 22 624 S	44 06 304 W	9.5	0.2	2875	2888	4	2	-11-	-11-									
		8:00	57 18 246 S	44 06 318 W	9.0	2.4	2986	3002	4	2	-11-	-11-									
		9:00	57 9 577 S	44 6 304 W	8.1	354.5	3364.3	3372.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
		9:30	57 5 311 S	44 6 297 W	7.7	359.4	3265.6	3278.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
		10:00	57 1 560 S	44 6 288 W	8.5	355	3309.1	3319.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
		10:30	56 57 583 S	44 6 284 W	7.1	6.5	3407.0	3421.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
		11:00	56 53 613 S	44 6 300 W	7.6	359.2	3641.1	3654.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
		11:30	56 49 597 S	44 6 285 W	8.0	355	3727.0	3740.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
		12:00	56 45 620 S	44 6 284 W	7.9	1.6	3735.8	3744.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
		12:30	56 41 600 S	44 6 285 W	8.1	360	3565.0	3542.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
		13:00	56 37.520 S	44 6 276 W	8.6	7.4	3463	3464	4	2	-11-	-11-	x	x	x	x	x	-11-			
		13:30	56 34.736 S	44 6 320 W	9.0	4.2	3437	3457	4	2	-11-	-11-	x	x	x	x	x	-11-			



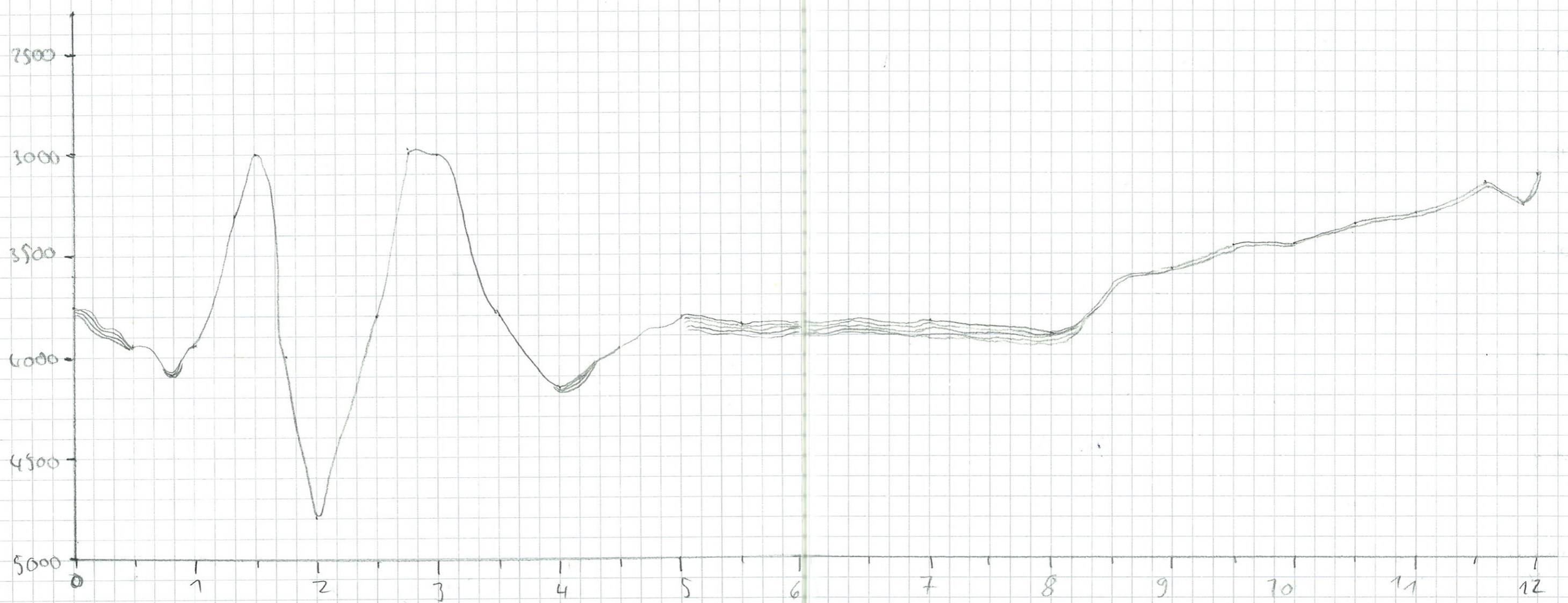
J. G. G. G. G.

13:17 Heli start -> slow speed

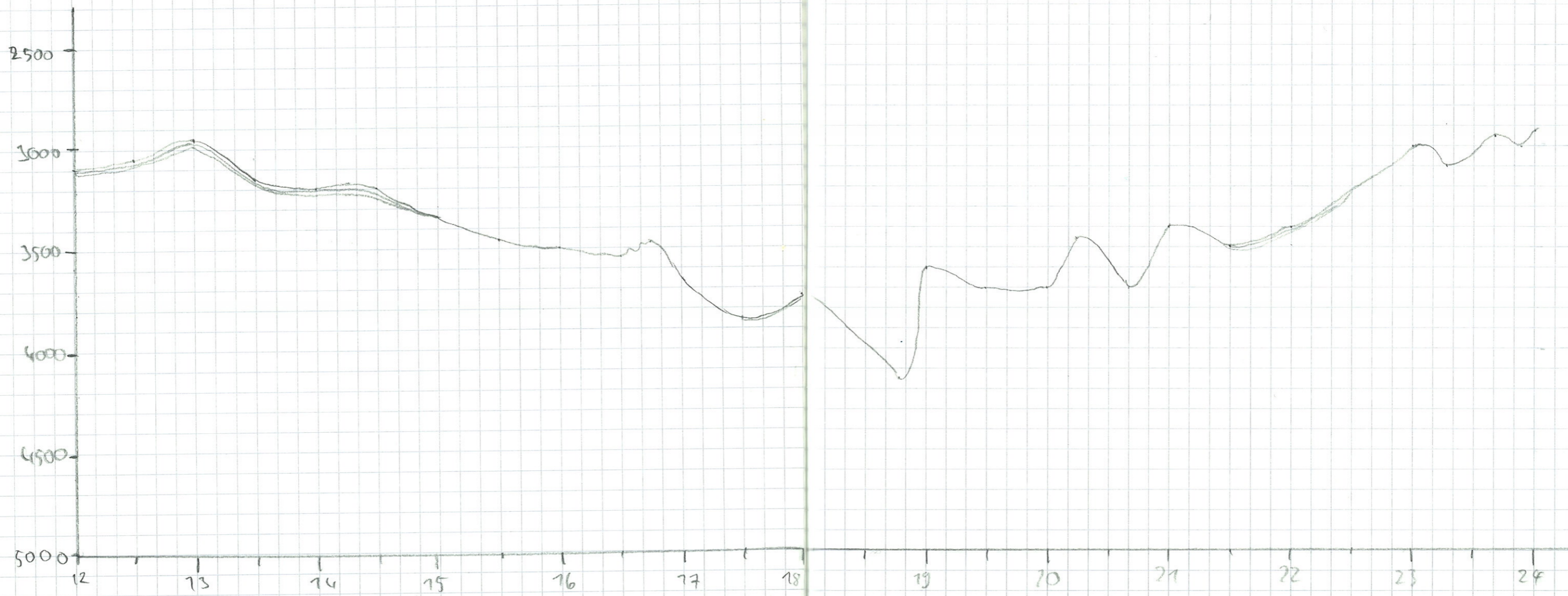
Date	time	Latitude	Longitude	Speed	Course	depth (PS)	depth (US)	freq.	Pulse	D-Range	Sensor operator modes	Aux	NBS	PAR	PAR PS3	Meta	Puls trace length	watch keeper	Remarks	39
19.04.05	14:00	56° 29.969 S	44° 6.304 W	8.6	359	2928	2976	4	2	5000	PAR-Pilot	x	x	x	x	x	Min	Simundic	14:38-14:56 total Ausfall System Absterz	
	14:30	56° 25.687 S	44° 6.305 W	8.7	357	3698	3723	4	2	5000	PAR-Pilot	x	x	x	x	x	Min			
	15:00	56° 21.404 S	44° 6.301 W	8.6	355	3075	2993	4	2	5000	-	x	x	x	x	x	Min			
	15:30	56° 27.023 S	44° 06.287 W	9.0	356	3720	3745	4	2	5000	-	x	x	x	x	x	Min			
	16:00	56° 12.662 S	44° 06.306 W	9.0	358	3577	3587	4	2	5000	-	x	x	x	x	x	Min			
	16:30	56° 08.500 S	44° 06.290 W	8.4	7.8	3446	3462	4	2	5000	-	x	x	x	x	x	Min			
	17:00	56° 04.543 S	44° 06.334 W	4.5	322	3523	3528	4	2	5000	-	x	x	x	x	x	Min			
	17:30	56° 00.382 S	44° 06.295 W	9.3	7.8	3342	3357	4	2	5000	-	x	x	x	x	x	Min			
	18:00	55° 55.760 S	44° 06.294 W	9.6	359	3098	3108	4	2	5000	-	x	x	x	x	x	Min			
	18:30	55° 50.644 S	44° 06.292 W	10.6	355	3067	3079	4	2	5000	-	x	x	x	x	x	Min			
	19:00	55° 44.541 S	44° 06.299 W	10.4	1.3	3029	3039	4	2	5000	-	x	x	x	x	x	Min			
	19:30	55° 40.550 S	44° 06.301 W	9.6	2.9	3097	3095	4	2	5000	-	x	x	x	x	x	Min			
	20:00	55° 35.804 S	44° 06.296 W	10.6	7.7	3455	3475	4	2	5000	-	x	x	x	x	x	Min			
	20:30	55° 31.054 S	44° 06.294 W	8.9	358	3473	3487	4	2	5000	-	x	x	x	x	x	Min			
	21:00	55° 26.393 S	44° 06.299 W	9.7	359	3596	3602	4	2	5000	-	x	x	x	x	x	Min			
	21:30	55° 21.746 S	44° 06.293 W	8.2	354	3500.9	3512	4	2	5000	-	x	x	x	x	x	Min			
	22:00	55° 16.962 S	44° 06.300 W	9.8	359	3955.4	4010	4	2	-	-	x	x	x	x	x	Min			
	22:30	55° 12.157 S	44° 06.307 W	9.4	353	3784.8	3802	4	2	-	-	x	x	x	x	x	Min			
	23:00	55° 07.417 S	44° 06.286 W	8.8	358	3838.1	3830.8	4	2	-	-	x	x	x	x	x	Min			
	23:30	55° 02.682 S	44° 06.298 W	8.4	359	4036	3917	4	2	-	-	x	x	x	x	x	Min			
20.04.05	24:00	54° 54.844 S	44° 06.281 W	11.2	356	3742.9	3765.0	4	2	-	-	x	x	x	x	x	Min	Dut		
	24:30	54° 52.985 S	44° 06.257 W	9.8	8.4	3902.4	3924	4	2	-	-	x	x	x	x	x	Min			
	1:00	54° 48.088 S	44° 06.281 W	9.7	358	3930.4	4320.0	4	2	-	-	x	x	x	x	x	Min			
1:30	54° 43.241 S	44° 06.286 W	10.4	359	2948	2965	4	2	-	-	x	x	x	x	x	Min				



40 Dak	Time	Latitude	Longitude	Speed	Course	Depth Ps	Depth Ls	Mag	Pulse	D-Range	Sensor op. mode	Flx	NBS	PAR	PS3	Flux	Pulse train l.	Water keeper	Remarks	41
20.04.05	02:00	54 39 47 S	44 04 018 W	10.8	96.8	4757	4775	4	2	7000	PIPR-Pilot	x	x	x	x	x	rod		chaos	
	02:30	54 41 23 S	44 02 237 W	5.1	157	4019	3823	4	2	5000	- -	x	x	x	x	x	run			
	03:00	54 43 79 S	44 01 150 W	5.0	166	2960	2992	4	2	- -	- -	x	x	x	x	x	- -			
	03:30	54 46 35 S	44 01 166 W	7.0	184	3822	3849	4	2	- -	- -	x	x	x	x	x	- -			
	04:00	54 49 00 S	44 01 203 W	5.3	189	4180	4167	4	2	- -	- -	x	x	x	x	x	- -			
	04:30	54 51 83 S	44 01 157 W	5.5	185	3927	3975	4	2	- -	- -	x	x	x	x	x	- -			
	05:00	54 54 72 S	44 01 195 W	6.1	175	3185	3814	4	2	- -	- -	x	x	x	x	x	- -		05:45 mach. ed. packet	
	05:30	54 57 64 S	44 01 188 W	5.3	176	2862	3858	4	2	- -	- -	x	x	x	x	x	- -			
	06:00	55 00 61 S	44 01 231 W	6.7	182	3845	3836	4	2	- -	- -	x	x	x	x	x	- -			
	06:30	55 03 73 S	44 01 183 W	6.2	170	3843	3854	4	2	- -	- -	x	x	x	x	x	- -			
	07:00	55 16 91 S	44 01 197 W	6.4	180	3667	3686	4	2	- -	- -	x	x	x	x	x	- -		07:10 UTC	
	07:30	55 10 31 S	44 01 201 W	6.4	184	3820	3846	4	2	- -	- -	x	x	x	x	x	- -			
	08:00	55 13 50 S	44 01 211 W	7.7	181	3916	3932	4	2	- -	- -	x	x	x	x	x	- -			
	08:30	55 20 42 S	44 01 211 W	6.8	173	3592	3607	4	2	- -	- -	x	x	x	x	x	- -			
	09:00	55 26 81 S	44 01 195 W	6.4	178	3686	3661	4	2	- -	- -	x	x	x	x	x	- -			
	09:30	55 23 88 S	44 01 198 W	6.8	173.9	3458.7	3473	4	2	- -	- -	x	x	x	x	x	- -			
	10:00	55 27 50 S	44 01 210 W	7.6	170	3469.3	3451.0	4	2	- -	- -	x	x	x	x	x	- -			
	10:30	55 31 08 S	44 01 193 W	6.7	188	3356.2	3367	4	2	- -	- -	x	x	x	x	x	- -			
	11:00	55 34 69 S	44 01 188 W	6.9	178	3801.8	3829	4	2	- -	- -	x	x	x	x	x	- -			
	11:30	55 36 49 S	44 01 335 W	8.6	168	3249	3282	4	2	- -	- -	x	x	x	x	x	- -			
	12:00	55 40 48 S	44 01 208 W	7.2	176	3079.2	3089	4	2	- -	- -	x	x	x	x	x	- -			
	12:30	55 44 13 S	44 01 194 W	6.0	182.6	3041.1	3049.1	4	2	- -	- -	x	x	x	x	x	- -			
	13:00	55 47 69 S	44 01 212 W	7.4	183	2967.6	2980	4	2	- -	- -	x	x	x	x	x	- -			
	13:30	55 50 05 S	44 01 209 W	7.4	184	3776	3790	4	2	- -	- -	x	x	x	x	x	- -		13:22 Keli start	



42 Date	Time	Latitude	Longitude	speed	course	depth (m)	depth (US)	Re-Range	Pulse	D-Range	sen son op. mode	dur	NBS	PAR	PAR PS3	Meta	Pulse train length	Water Inspec	Remarks	43
20.04.05	14:00	55° 53' 37.4 S	44° 07' 23.3 W	6.8	168	3185	3290	4	2	5000	PAR-Pilot	x	x	x	x	x	Mini		14:15 Heli = turn around	
	14:30	55° 55' 25.0 S	44° 01' 18.6 W	8.1	175	3199	3220	4	2	5000	"	x	x	x	x	x	Mini			
	15:00	55° 59' 41.3 S	44° 01' 21.7 W	7.7	180	3233	3248	4	2	5000	"	x	x	x	x	x	Mini		15:26 Heli = turn around	
	15:30	56° 03' 24.7 S	44° 01' 17.2 W	4.3	176	3463	3474	4	2	5000	"	x	x	x	x	x	Mini		2 rounds ☺	
	16:00	56° 05' 48.9 S	44° 01' 17.5 W	7.4	177	3502	3512	4	2	5000	"	x	x	x	x	x	Mini			
	16:30	56° 09' 73.8 S	44° 01' 21.6 W	8.7	180	3502	3525	4	2	5000	"	x	x	x	x	x	Mini			
	17:00	56° 14' 41.0 S	44° 01' 20.4 W	9.1	193	3648	3663	4	2	5000	"	x	x	x	x	x	Mini			
	17:30	56° 19' 17.4 S	44° 01' 20.0 W	10.4	184	3836	3850	4	2	5000	"	x	x	x	x	x	Mini			
	18:00	56° 23' 06.4 S	44° 01' 20.3 W	9.9	180	3783	3777	4	2	5000	"	x	x	x	x	x	Mini			
	18:30	56° 28' 19.2 S	44° 01' 20.8 W	9.8	180	3834	3860	4	2	5000	"	x	x	x	x	x	Mini			
	19:00	56° 33' 53.1 S	44° 01' 19.6 W	9.0	179	3644	3549	4	2	5000	"	x	x	x	x	x	Mini			
	19:30	56° 38' 22.0 S	44° 01' 18.7 W	9.3	179	3739	3740	4	2	"	"	x	x	x	x	x	Mini			
	20:00	56° 42' 87.6 S	44° 01' 19.0 W	9.3	179	3767	3779	4	2	"	"	x	x	x	x	x	Mini			
	20:30	56° 47' 57.6 S	44° 01' 20.1 W	9.2	175	3797	3619	4	2	"	"	x	x	x	x	x	Mini			
	21:00	56° 51' 97.1 S	44° 01' 20.6 W	8.4	180	3356	3437	4	2	"	"	x	x	x	x	x	Mini			
	21:30	56° 56' 35.5 S	44° 01' 19.9 W	9.2	182	3514.3	3594.0	4	2	-11-	-11-	x	x	x	x	x	Mini			
	22:00	57° 00' 79.5 S	44° 01' 17.0 W	8.4	182	3422.3	3437.0	4	2	-11-	-11-	x	x	x	x	x	Mini			
	22:30	57° 05' 22.9 S	44° 01' 20.5 W	8.8	183	3419.6	3431.0	4	2	-11-	-11-	x	x	x	x	x	Mini			
	23:00	57° 09' 81.5 S	44° 01' 19.4 W	8.9	183	2985.1	3012	4	2	-11-	-11-	x	x	x	x	x	Mini			
	23:30	57° 14' 38.7 S	44° 01' 22.2 W	9.5	176	3020.4	3048	4	2	-11-	-11-	x	x	x	x	x	Mini			
	24:00	57° 18' 90.9 S	44° 01' 19.7 W	8.4	173	2814.5	2925	4	2	-11-	-11-	x	x	x	x	x	Mini			
	24:30	57° 23' 33.2 S	44° 01' 20.4 W	9.7	177	2798.1	2815.0	4	2	-11-	-11-	x	x	x	x	x	Mini			
21.04.05	1:00	57° 27' 68.0 S	44° 01' 18.9 W	9.2	170.3	2105.0	2691.4	4	2	-11-	-11-	x	x	x	x	x	Mini			
	1:30	57° 30' 38.2 S	48° 57' 49.3 W	10.1	91	2554	2564	4	2	-11-	-11-	x	x	x	x	x	Mini			



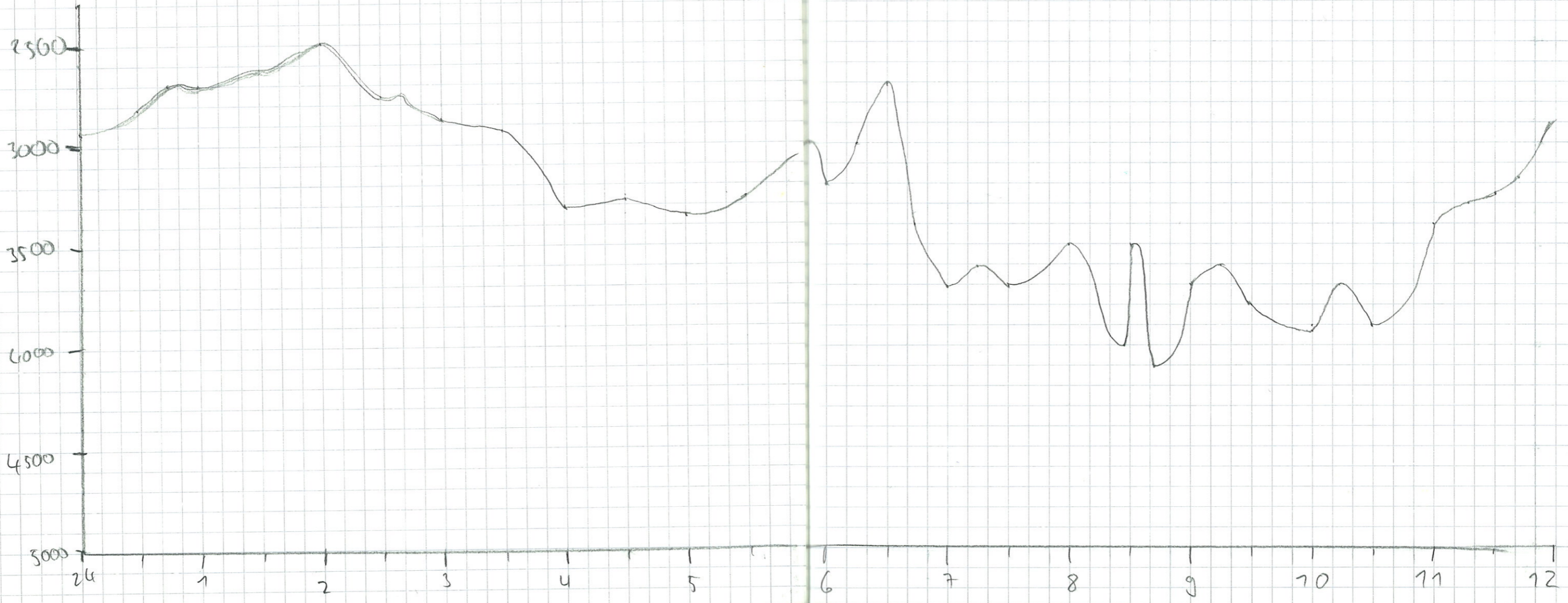
Geoponics

Simulink

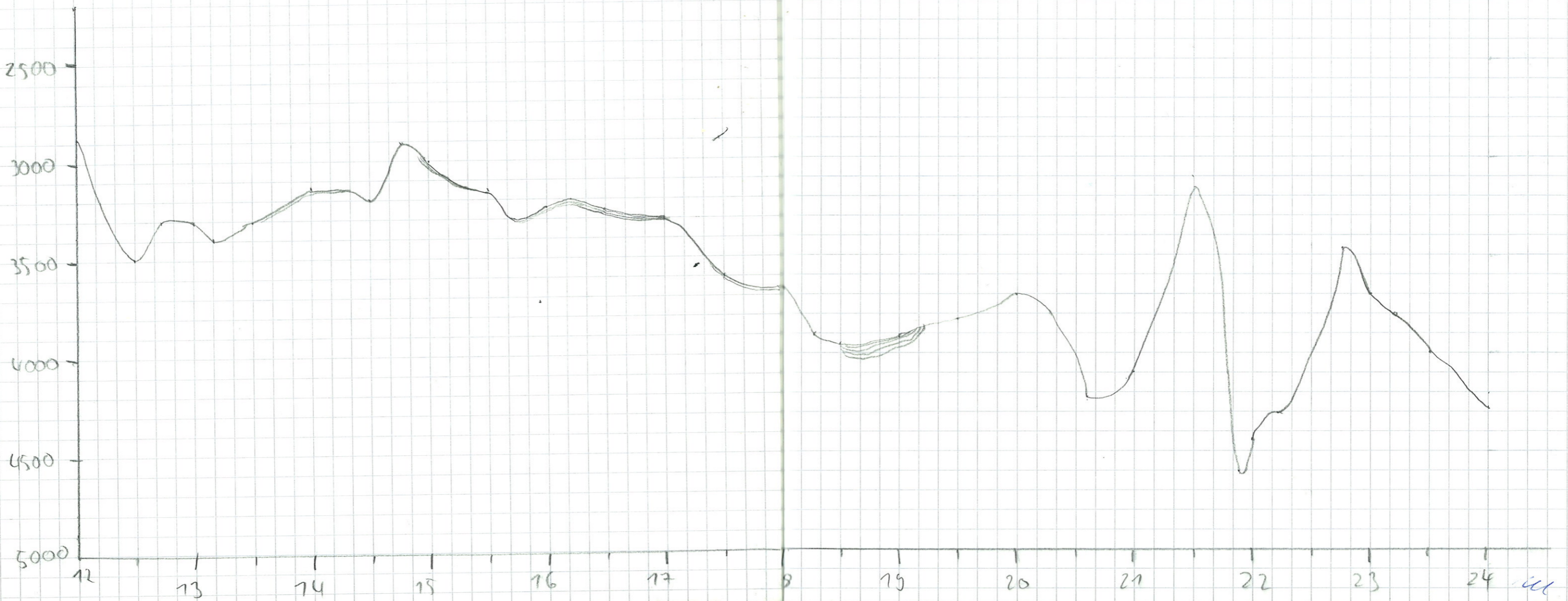
21.04.05

Time	Lat	Long	Speed	Course	Depth PS	Depth HS	Temp	Sal	D-Range	densu	op-mod	PAR	NO3	PAR	PAR	PSD	Relu	PhyLk	Walt	Remarks
02:00	57 23 220	43 55 876	9.0	0.9	2744	2745			5000	PAR-PTC	x	-	-	-	-	-	-	-	-	
02:30	57 23 220	43 55 876	9.3	3.5	2877	2884			-	-	x	-	-	-	-	-	-	-	-	Ponders
03:00	57 19 061	43 54 954	8.6	3.2	2914	2916			-	-	x	-	-	-	-	-	-	-	-	
03:30	57 15 020	43 54 907	8.4	3.4	3308	3311			-	-	x	-	-	-	-	-	-	-	-	
04:00	57 10 707	43 54 879	6.7	3.5	3290	3296			-	-	x	-	-	-	-	-	-	-	-	
04:30	57 07 122	43 54 885	6.7	3.5	3369	3378			-	-	x	-	-	-	-	-	-	-	-	
05:00	57 03 237	43 54 896	7.2	6.7	3224	3224			-	-	x	-	-	-	-	-	-	-	-	
05:30	56 59 720	43 54 886	8.1	3.3	3019	3064			-	-	x	-	-	-	-	-	-	-	-	
06:00	56 54 526	43 54 903	8.5	2.4	2683	2716			-	-	x	-	-	-	-	-	-	-	-	
06:30	56 50 912	43 54 903	7.5	0.6	3681	3694			-	-	x	-	-	-	-	-	-	-	-	
07:00	56 46 679	43 54 907	7.7	3.1	3723	3727			-	-	x	-	-	-	-	-	-	-	-	
07:30	56 42 781	43 54 884	7.6	3.5	3723	3727			-	-	x	-	-	-	-	-	-	-	-	
08:00	56 38 800	43 54 906	8.5	3.5	3504	3519			-	-	x	-	-	-	-	-	-	-	-	
08:30	56 34 980	43 54 975	8.4	3.8	3549	3598			-	-	x	-	-	-	-	-	-	-	-	
09:00	56 31 183	43 54 924	7.8	5.9	3116	3149.0			-	-	x	x	x	x	x	x	x	x	-	
09:30	56 27 251	43 54 897	8.2	10	3837.6	3863.0			-	-	x	x	x	x	x	x	x	x	-	
10:00	56 23 240	43 54 913	8.2	3.8	3525.5	3542			-	-	x	x	x	x	x	x	x	x	-	
10:30	56 19 143	43 54 907	8.2	4.4	3896.4	3912			-	-	x	x	x	x	x	x	x	x	-	
11:00	56 15 080	43 54 899	7.3	0.2	3427.3	3444.0			-	-	x	x	x	x	x	x	x	x	-	
11:30	56 11 493	43 54 895	7.9	3.5	3254.4	3264			-	-	x	x	x	x	x	x	x	x	-	
12:00	56 7 302	43 54 882	8.2	3.5	2827.0	2814			-	-	x	x	x	x	x	x	x	x	-	
12:30	56 3 376	43 54 896	8.0	4.5	3488.0	3500			-	-	x	x	x	x	x	x	x	x	-	
13:00	56 1 644	43 54 898	9.0	3.1	3338.8	3355			-	-	x	x	x	x	x	x	x	x	-	
13:30	5 57 796	43 54 884	9.1	1.3	3374	3327			-	-	x	x	x	x	x	x	x	x	-	

Shearwater



46 Data	time	Latitude	Longitude	Speed (kts)	Course (°)	depth (BS)	depth (LCS)	freq (kHz)	Pulse	D-Range	Sensor op. modes	Aux	VBS	PAR	PAR PSS	Meta	Pulse train length	Watch keeper	Remarks	47
21.04.05	14:00	55° 52' 54.1 S	43° 54' 9.1 W	9.9	1.3	3139	3150	4	2	5000	PAR-Pilot	x	x	x	x	x	Mini			
	14:30	55° 47' 70.0 S	43° 54' 9.0 W	9.8	3.6	3185	3199	4	2	5000	PAR-Pilot	x	x	x	x	x	Mini			
	15:00	55° 42' 83.0 S	43° 54' 8.8 W	9.5	0	2968	2978	4	2	5000	"	x	x	x	x	x	"			
	15:30	55° 37' 122.5 S	43° 54' 8.8 W	10.4	2.3	3179	3184	4	2	5000	"	x	x	x	x	x	"			
	16:00	55° 33' 108.5 S	43° 54' 9.0 W	9.4	0.6	3229	3250	4	2	5000	"	x	x	x	x	x	"			
	16:30	55° 28' 47.6 S	43° 54' 8.9 W	10.7	12.7	3234	3247	4	2	5000	"	x	x	x	x	x	"			
	17:00	55° 23' 96.5 S	43° 54' 8.9 W	8.7	35.7	3207	3312	4	2	"	"	x	x	x	x	x	"			
	17:30	55° 19' 10.7 S	43° 54' 8.8 W	9.3	6.4	358.7	3598	4	2	"	"	x	x	x	x	x	"			
	18:00	55° 14' 45.8 S	43° 54' 8.9 W	9.1	0.1	3689	3706	4	2	"	"	x	x	x	x	x	"			
	18:30	55° 9' 52.4 S	43° 54' 9.0 W	9.7	1.6	3964	3961	4	2	"	"	x	x	x	x	x	"			
	19:00	55° 5' 08.5 S	43° 54' 8.6 W	8.6	35.1	3914	3930	4	2	"	"	x	x	x	x	x	"			
	19:30	55° 0' 44.0 S	43° 54' 9.0 W	10.0	7.4	3822	3841	4	2	"	"	x	x	x	x	x	"			
	20:00	54° 55' 52.0 S	43° 54' 9.5 W	9.3	4.6	3755	3739	4	2	"	"	x	x	x	x	x	"			
	20:30	54° 51' 06.4 S	43° 54' 8.6 W	9.6	34.4	3880	3877	4	2	"	"	x	x	x	x	x	"			
	21:00	54° 46' 66.7 S	43° 54' 9.0 W	9.1	35.3	4174	4197	4	2	"	"	x	x	x	x	x	"			
	21:30	54° 42' 113.5 S	43° 54' 8.7 W	9.8	35.8	3155.7	3162.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
	22:00	54° 39' 199.5 S	43° 51' 10.2 W	8.8	89	4540.3	4452	4	2	-11-	-11-	x	x	x	x	x	-11-			
	22:30	54° 41' 43.7 S	43° 49' 20.6 W	5.2	200	3142.9	3139	4	2	-11-	-11-	x	x	x	x	x	-11-			
	23:00	54° 43' 99.9 S	43° 49' 17.1 W	4.8	190.6	3777.	3668	4	2	-11-	-11-	x	x	x	x	x	-11-			
	23:30	54° 46' 215.5 S	43° 49' 20.5 W	5.3	184.7	4032.0	4010.9	4	2	-11-	-11-	x	x	x	x	x	-11-			
	24:00	54° 49' 316.5 S	43° 49' 17.4 W	8.7	210	4253.5	4326.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
	24:30	54° 51' 90.6 S	43° 49' 12.2 W	5.1	173	3474.2	3487.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
22.04.05	1:00	54° 54' 71.0 S	43° 49' 22.4 W	5.8	180	3370	3381	4	2	-11-	-11-	x	x	x	x	x	-11-			
	1:30	54° 57' 58.6 S	43° 49' 18.5 W	6.2	162	3457	3463	4	2	-11-	-11-	x	x	x	x	x	-11-			



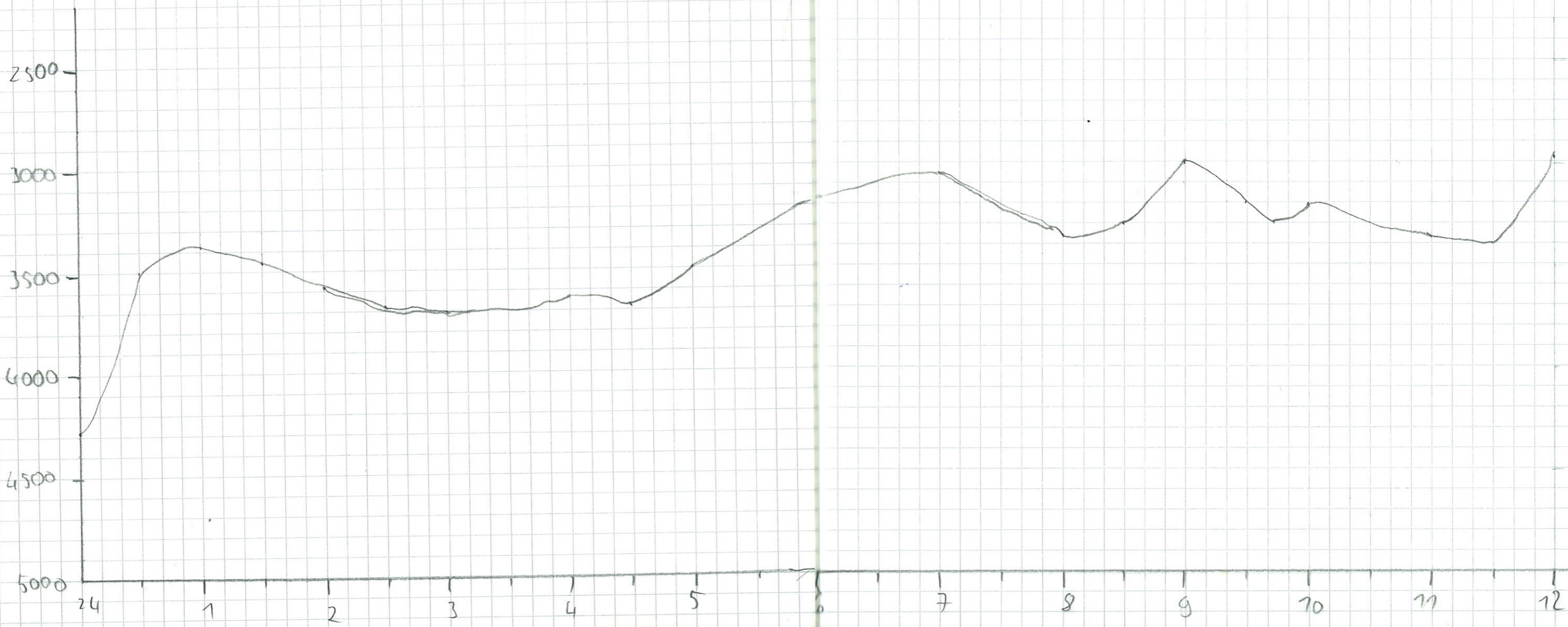
48 Date	time	Latitude	Longitude	speed [kn]	course [°]	depth (PS)	depth (MS)	49	Pulse	P-Rangst	Sensor op. modes	Aux	WBS	PAR	PAR PS3	Meta	Puls & train length	Watch Keeper	Remarks
22.04.05	02:00	55° 07' 28" S	43° 49' 22" W	6.6	174	3505	3518	4	2	5000	Prn-P10	-	-	-	-	-	-		
	02:34	55° 03' 49" S	43° 49' 20" W	6.1	163	3998	3711	4	2	5000	-	-	-	-	-	-	-		
	03:00	55° 06' 36" S	43° 49' 21" W	5.8	185	3797	2725	4	2	-	-	-	-	-	-	-	-		asym. Ed-rücken
	03:30	55° 09' 24" S	43° 49' 21" W	7.0	183	3682	3689	4	2	-	-	-	-	-	-	-	-		
	04:00	55° 12' 10" S	43° 49' 18" W	6.5	176	3552	3569	4	2	-	-	-	-	-	-	-	-		
	04:30	55° 15' 05" S	43° 49' 21" W	5.8	172	3671	3687	4	2	-	-	-	-	-	-	-	-		
	05:06	55° 18' 07" S	43° 49' 18" W	6.7	186	3464	3286	4	2	-	-	-	-	-	-	-	-		
	05:20	55° 21' 21" S	43° 49' 26" W	6.1	192	3279	3296	4	2	-	-	-	-	-	-	-	-		
	06:00	55° 24' 48" S	43° 49' 21" W	6.8	184	3172	3174	4	2	-	-	-	-	-	-	-	-		
	06:30	55° 27' 29" S	43° 49' 21" W	6.9	170	3172	3170	4	2	-	-	-	-	-	-	-	-		
	07:00	55° 31' 05" S	43° 49' 28" W	6.2	181	3050	3040	4	2	-	-	-	-	-	-	-	-		
	07:30	55° 34' 51" S	43° 49' 19" W	6.9	194	3194	3202	4	2	-	-	-	-	-	-	-	-		
	08:00	55° 37' 56" S	43° 49' 19" W	7.4	178	3323	3335	4	2	-	-	-	-	-	-	-	-		
	08:30	55° 41' 16" S	43° 49' 22" W	6.6	187	3039	3047	4	2	-	-	-	-	-	-	-	-		
	09:06	55° 44' 7" S	43° 49' 20" W	7.0	184	3029	3047	4	2	-	-	-	-	-	-	-	-		
	09:50	55° 48' 32" S	43° 49' 20" W	7.5	176.7	3259.9	3260.0	4	2	-	-	-	-	-	-	-	-		
	10:06	55° 51' 8" S	43° 49' 19" W	7.0	179.6	3209.0	3208.0	4	2	-	-	-	-	-	-	-	-		
	10:30	55° 55' 03" S	43° 49' 19" W	7.1	178.9	3370.2	3379.0	4	2	-	-	-	-	-	-	-	-		
	11:00	55° 59' 56" S	43° 49' 21" W	6.4	177	3379.9	3392	4	2	-	-	-	-	-	-	-	-		
	11:30	56° 02' 03" S	43° 49' 36" W	7.8	167	3438.9	3432.0	4	2	-	-	-	-	-	-	-	-		
	12:06	56° 06' 51" S	43° 49' 20" W	7.7	176	2971.1	2997.0	4	2	-	-	-	-	-	-	-	-		
	12:20	56° 10' 50" S	43° 49' 17" W	7.3	178	2207.1	3210.0	4	2	-	-	-	-	-	-	-	-		
	13:00	56° 14' 72" S	43° 49' 21" W	6.6	192	3285	3253	4	2	-	-	-	-	-	-	-	-		
	13:20	56° 17' 21" S	43° 49' 19" W	8.8	182	3349	3359	4	2	-	-	-	-	-	-	-	-		

Ed-rücken

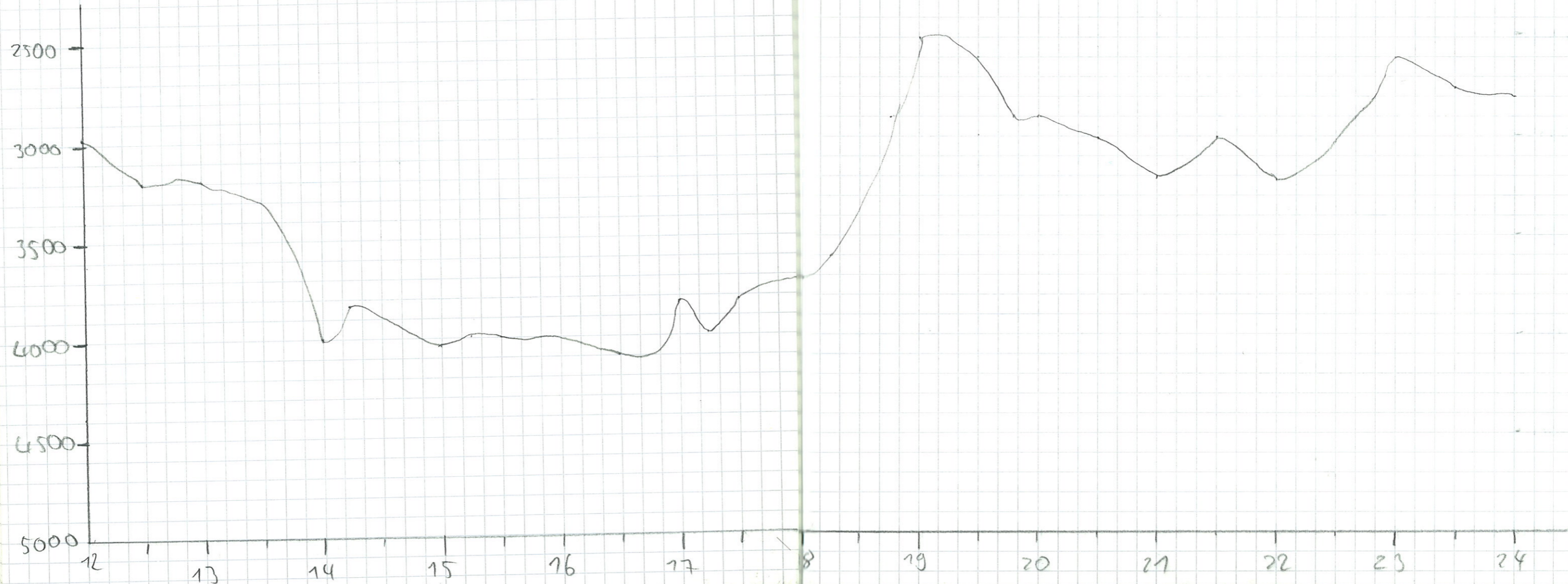
Ed-rücken

Gregorowicz

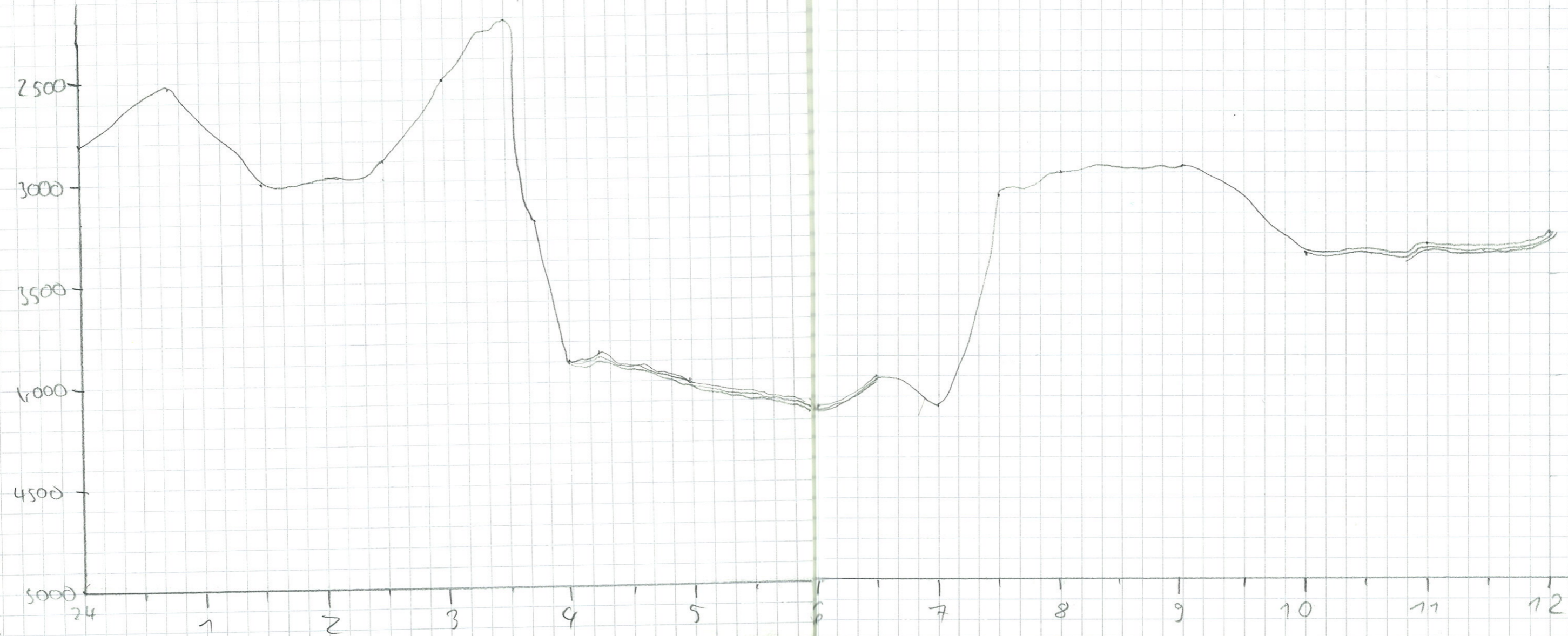
Ed-rücken



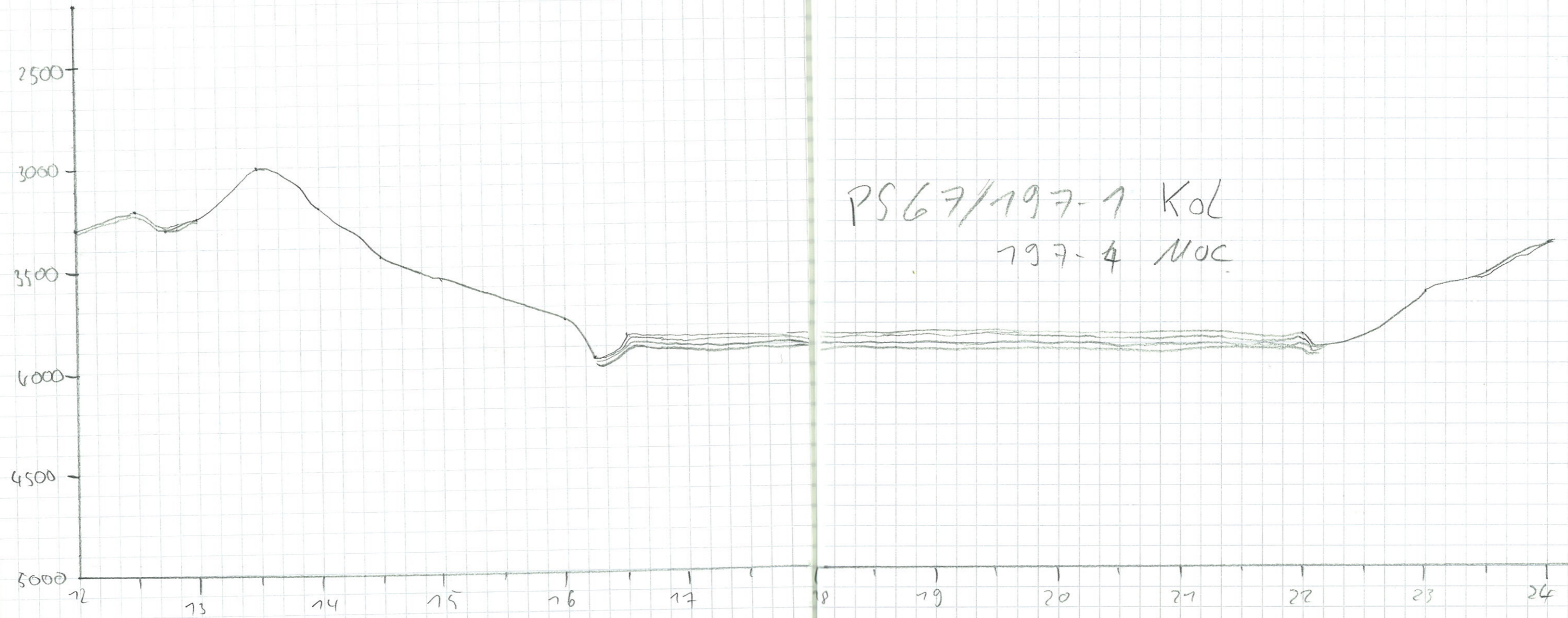
50 Date	time	latitude	Longitude	speed (km)	course [°]	depth (PS)	depth (HS)	Temp (C)	Pulse	D-Range	sensor op. modes	Aux	UVS	PAR	PAR PS3	Meta	Puls train length	water temp	Remarks
22.04.05	14:00	56° 21' 09.6 S	43° 49' 23.5 W	8.0	173	3401.3	3478	14.2	2	5000	Par-Pilot	x	x	x	x	x	Min		
	14:30	56° 25' 17.2 S	43° 49' 19.7 W	8.6	176	3860	3894	14.1	2	11	11	x	x	x	x	x	11		
	15:00	56° 29' 14.1 S	43° 49' 15.0 W	7.8	180	4034.8	4053.0	14.0	2	11	11	x	x	x	x	x	11		
	15:30	56° 33' 10.3 S	43° 49' 10.1 W	7.6	179	4030	4049	13.9	2	11	11	x	x	x	x	x	11		
	16:00	56° 35' 46.4 S	43° 49' 17.2 W	8.0	181	4126	4015	13.8	2	11	11	x	x	x	x	x	11		
	16:30	56° 37' 63.6 S	43° 49' 20.6 W	7.7	178	4075	4039	13.7	2	11	11	x	x	x	x	x	11		
	17:00	56° 41' 42.3 S	43° 49' 20.4 W	7.8	180	3829	3836	13.6	2	11	11	x	x	x	x	x	11		
	17:30	56° 45' 23.7 S	43° 49' 26.0 W	7.0	178	3783	3740	13.5	2	5	5	x	x	x	x	x	5		
	18:00	56° 48' 8.1 S	43° 49' 19.3 W	7.5	180	3725	3727	13.4	2	5	5	x	x	x	x	x	5		
	18:30	56° 50' 29.7 S	43° 49' 17.8 W	7.7	185	3674	3723	13.3	2	5	5	x	x	x	x	x	5		
	19:00	56° 53' 9.5 S	43° 49' 19.0 W	2.5	194	2522	2471	13.2	2	5	5	x	x	x	x	x	5		
	19:30	56° 57' 7.9 S	43° 49' 20.7 W	2.6	182	2617	2623	13.1	2	5	5	x	x	x	x	x	5		
	20:00	57° 1' 59.5 S	43° 49' 17.9 W	2.9	181	2911	2910	13.0	2	5	5	x	x	x	x	x	5		
	20:30	57° 5' 45.0 S	43° 49' 26.5 W	2.6	180	3043	3020	12.9	2	5	5	x	x	x	x	x	5		
	21:00	57° 9' 33.1 S	43° 49' 20.1 W	2.6	179	3195.5	3170.0	12.8	2	5	5	x	x	x	x	x	5		
	21:30	57° 13' 00.6 S	43° 49' 20.0 W	2.8	182	3048.6	3062.0	12.7	2	11	11	x	x	x	x	x	11		
	22:00	57° 16' 99.4 S	43° 49' 20.3 W	8.2	179.5	2837.3	2860.0	12.6	2	11	11	x	x	x	x	x	11		
	22:30	57° 20' 67.7 S	43° 49' 19.8 W	8.1	179.6	2639	2640	12.5	2	11	11	x	x	x	x	x	11		
23:00	57° 24' 89.7 S	43° 49' 20.4 W	8.4	180	2511.8	2520	12.4	2	11	11	x	x	x	x	x	11			
23:30	57° 28' 88.8 S	43° 49' 18.5 W	8.0	176	2754.8	2761.0	12.3	2	11	11	x	x	x	x	x	11			
23.04.05	24:00	57° 30' 20.8 S	43° 48' 58.1 W	9.5	15.7	2780.6	2790	12.2	2	11	11	x	x	x	x	x	11		
	24:30	57° 25' 26.0 S	43° 48' 58.7 W	10.5	359	2791.5	2804.0	12.1	2	11	11	x	x	x	x	x	11		
	1:00	57° 20' 25.2 S	43° 48' 58.2 W	10.1	1.5	2683.6	2693.0	12.0	2	11	11	x	x	x	x	x	11		
1:30	57° 15' 40.6 S	43° 48' 60.8 W	9.7	357	3015	3023	11.9	2	11	11	x	x	x	x	x	11			



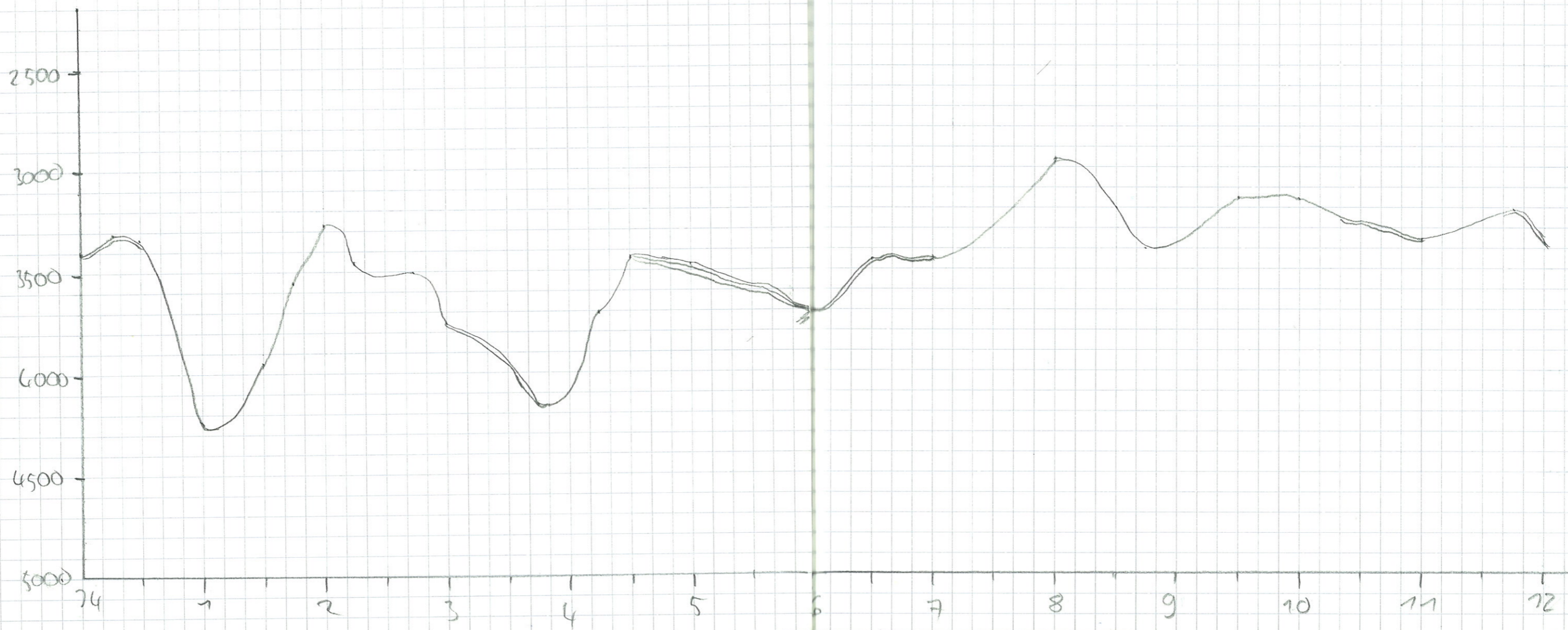
52	Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D. Range	Sensor Operat. Modus	AUX	MBS	PAR	PAR P3	Meto	Pulse Train Weight	Watch keeper	Remarks	53
	23.04.05	2:00	57 10 6 78 S	43 43 603 W	9.8	359	2966	2977	4	2	1000	PAR-Pilot	x	x	x	x	x	1000	Bord		
		2:30	57 05 9 75 S	43 43 595 W	9.6	214	2874	2826	4	2	-	-	x	x	x	x	x	1000			
		3:00	57 01 3 62 S	43 43 605 W	9.6	1.1	2476	2497	4	2	-	-	x	x	x	x	x	1000			
		3:30	57 56 40 S	43 43 593 W	10.1	358	2319	2337	4	2	-	-	x	x	x	x	x	1000			
		4:00	57 51 40 S	43 47 597 W	9.9	358	3899	3912	4	2	-	-	x	x	x	x	x	1000			
		4:30	56 46 30 S	43 43 602 W	10.1	357	3962	3976	4	2	-	-	x	x	x	x	x	1000			
		5:00	56 41 47 S	43 43 594 W	9.7	9.9	4084	4106	4	2	-	-	x	x	x	x	x	1000			
		5:30	56 36 67 S	43 47 597 W	9.5	0.1	4167	4182	4	2	4	7	x	x	x	x	x	1000			
		6:00	56 32 14 S	43 43 594 W	9.8	357	4078	4124	4	2	5	5	x	x	x	x	x	1000			
		6:30	56 27 53 S	43 43 601 W	9.2	358	4025	4043	4	2	5	5	x	x	x	x	x	1000			
		7:00	56 23 06 S	43 43 595 W	8.9	3.1	4078	4115	4	2	5	5	x	x	x	x	x	1000			
		7:30	56 18 52 S	43 47 573 W	8.8	0.4	3077	3092	4	2	5	5	x	x	x	x	x	1000		7:30 falsch ausgelesen PAR	
		8:00	56 14 28 S	43 43 590 W	8.3	3.3	3026	3034	4	2	5	5	x	x	x	x	x	1000			
		8:30	56 9 72 S	43 43 584 W	9.7	757	2960	2979	4	2	4	4	x	x	x	x	x	1000			
		9:00	56 5 20 S	43 43 609 W	9.0	358	2993	3004	4	2	4	4	x	x	x	x	x	1000			
		9:30	56 0 48 S	43 43 588 W	8.2	1.7	3310	3317.0	4	2	4	4	x	x	x	x	x	1000			
		10:00	55 55 96 S	43 43 609 W	9.6	357	3418.9	3430	4	2	4	4	x	x	x	x	x	1000			
		10:30	55 51 23 S	43 43 579 W	9.1	0.9	3286.9	3298.0	4	2	4	4	x	x	x	x	x	1000			
		11:00	55 46 68 S	43 43 600 W	9.3	3.5	3339	3353	4	2	4	4	x	x	x	x	x	1000			
		11:30	55 42 41 S	43 43 584 W	9.3	355	3372.0	3383.0	4	2	4	4	x	x	x	x	x	1000			
		12:00	55 37 66 S	43 43 592 W	9.2	358	3275.9	3287.0	4	2	4	4	x	x	x	x	x	1000			
		12:30	55 32 85 S	43 43 570 W	9.6	4.1	3210.4	3221.0	4	2	4	4	x	x	x	x	x	1000			
		13:00	55 28 06 S	43 43 596 W	9.7	358	3241.0	3252.0	4	2	4	4	x	x	x	x	x	1000			
		13:30	55 24 44 S	43 43 657 W	9.1	8.1	2990	3007	4	2	4	4	x	x	x	x	x	1000			



54 Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Temp	Pulse	D. Rain	Sensor op. mode	Flux	NDS	P1/P2	P3/P4	Rela	Pulse train length	Watch-keeper	Remarks	55	
23.04.05	14:00	55° 20' 759 S	43° 43' 615 W	9.9	355	3201	3213		2	5000	PAR-Pilot	x	x	x	x	x	Minimal	B. G. W.			
	14:30	55° 16' 197 S	43° 43' 586 W	9.6	211	3458	3469		1	-11-	-11-	^	^	^	^	^	^				
	15:00	55° 11' 719 S	43° 43' 599 W	9.6	210	3526	3543		2	-11-	-11-	^	^	^	^	^	-11-				
	15:30	55° 08' 367 S	43° 46' 170 W	9.9	266	3720	3736		2	-11-	-11-	^	^	^	^	^	-11-				
	16:00	55° 08' 404 S	43° 51' 414 W	9.2	276	3772	3791		2	-11-	-11-	^	^	^	^	^	-11-				
	16:30	55° 08' 291 S	43° 59' 536 W	9.2	272	3834	3844		2	-11-	-11-	^	^	^	^	^	-11-				
	17:00	55° 08' 155 S	44° 00' 424 W	9.0	274	3904	3914		2	-11-	-11-	^	^	^	^	^	-11-				
	17:30	55° 08' 303 S	44° 00' 259 W	0.5	197	3829	3834		2	-11-	-11-	^	^	^	^	^	-11-				
	18:00	55° 08' 324 S	44° 00' 266 W	0.3	130	3822	3834		2	-11-	-11-	^	^	^	^	^	-11-				
	18:30	55° 08' 254 S	44° 00' 319 W	0.2	305	3822	3835		2	-11-	-11-	^	^	^	^	^	-11-				
	19:00	55° 08' 145 S	44° 00' 203 W	0.2	60	3824	3836		2	-11-	-11-	^	^	^	^	^	-11-				
	19:30	55° 08' 259 S	44° 00' 81 W	0.8	136	3837	3818		2	-11-	-11-	^	^	^	^	^	-11-				
	20:00	55° 08' 449 S	44° 00' 594 W	0.5	142	3828	3811		2	-11-	-11-	^	^	^	^	^	-11-				
	20:30	55° 08' 603 S	44° 00' 572 W	0.3	166	3823	3806		2	-11-	-11-	^	^	^	^	^	-11-				
	21:00	55° 08' 611 S	44° 00' 565 W	0.2	111	3820	3805		2	-11-	-11-	^	^	^	^	^	-11-				
	21:30	55° 08' 574 S	44° 00' 537 W	0.4	77.5	3821	3803		2	-11-	-11-	^	^	^	^	^	-11-				
	22:00	55° 08' 481 S	44° 00' 106 W	0.7	90.7	3836	3834		2	-11-	-11-	^	^	^	^	^	-11-				
	22:30	55° 08' 503 S	44° 00' 041 W	0.5	85	3862	3844		2	-11-	-11-	^	^	^	^	^	-11-				
	23:00	55° 08' 597 S	44° 00' 237 W	0.8	92.1	3784	3776		2	-11-	-11-	^	^	^	^	^	-11-				
	23:30	55° 08' 025 S	44° 00' 613 W	1.0	47	3565	3567		2	-11-	-11-	^	^	^	^	^	-11-				
	24.04.05	24:00	54° 59' 060 S	43° 43' 596 W	9.2	358	3405	3394		2	-11-	-11-	^	^	^	^	^	-11-			B. G. W.
		24:30	54° 54' 246 S	43° 43' 606 W	9.4	210	3348	3356		2	-11-	-11-	^	^	^	^	^	-11-			
		1:00	54° 49' 417 S	43° 43' 582 W	9.7	07	3240	4248		2	-11-	-11-	^	^	^	^	^	-11-			
1:30		54° 44' 906 S	43° 43' 572 W	9.8	355	3942	3969		2	-11-	-11-	^	^	^	^	^	-11-				
									2	-11-	-11-	^	^	^	^	^	-11-				



56 Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Temp	Salin	D-Range	Sensor op. mode	Aux	NOI	PAR	PAR PS	Rela	Pulse tr. length	Water keeps	
24.04.05	02:00	54° 40.190' S	43° 43.615' W	8.0	355	3325	3320			5000	PAR-Pilot	x	x	x	x	x	Minimal		
	02:30	54° 39.324 S	43° 38.910 W	8.4	87	3547	3566			-11-	-11-	x	x	-1	-1	-1	-11-		Tide-Structure
	03:00	54° 42.432 S	43° 38.549 W	7.1	179	3766	3719			-11-	-11-	x	x	1	1	1	-11-		
	03:30	54° 46.047 S	43° 38.577 W	7.5	179	3932	3935			-11-	-11-	x	x	1	1	1	-11-		
	04:00	54° 49.821 S	43° 38.603 W	7.1	172	4194	4207			-11-	-11-	x	x	1	1	1	-11-		
	04:30	54° 53.419 S	43° 38.590 W	6.7	179	3418	3381			-11-	-11-	x	x	1	1	1	-11-		
	05:00	54° 57.175 S	43° 38.605 W	7.3	173	3456	3478			-11-	-11-	x	x	1	1	1	-11-		
	5:30	55° 1.015 S	43° 38.627 W	7.5	179	3559	3574			5	5	x	x	1	1	1	5		
	6:00	55° 6.903 S	43° 38.600 W	8.0	174	3679	3698			5	5	x	x	1	1	1	5		
	6:20	55° 8.885 S	43° 38.617 W	8.5	173	3455	3459			5	5	x	x	1	1	1	5		
	7:00	55° 13.041 S	43° 38.598 W	8.8	192	3445	3460			5	5	x	x	1	1	1	5		
	7:30	55° 17.317 S	43° 38.617 W	8.4	174	3297	3305			5	5	x	x	1	1	1	5		
	8:00	55° 21.690 S	43° 38.606 W	8.9	192	2979	2993			5	5	x	x	1	1	1	5		
	8:30	55° 26.079 S	43° 38.599 W	8.8	176	3215	3230			5	5	x	x	1	1	1	5		
	9:00	55° 30.472 S	43° 38.586 W	8.8	178	3325	3321			5	5	x	x	1	1	1	5		
	9:30	55° 34.723 S	43° 38.615 W	8.2	174	3223	3227			5	5	x	x	1	1	1	5		
	10:00	55° 38.914 S	43° 38.581 W	8.2	178	3290	3298			-11-	-11-	x	x	1	1	1	5		
	10:30	55° 43.088 S	43° 38.592 W	8.3	178	3276	3281			-11-	-11-	x	x	1	1	1	5		
	11:00	55° 47.919 S	43° 38.603 W	8.3	180	3333	3333			-11-	-11-	x	x	1	1	1	5		
	11:30	55° 51.141 S	43° 38.626 W	8.6	177	3263.1	3276.0			-11-	-11-	x	x	1	1	1	5		
	12:00	55° 55.395 S	43° 38.625 W	8.8	175	3372.5	3385.0			-11-	-11-	x	x	1	1	1	5		
	12:30	55° 59.960 S	43° 38.589 W	9.0	185.4	3266.4	3270			-11-	-11-	x	x	1	1	1	5		
	13:00	56° 4.041 S	43° 38.478 W	8.0	168	2986.9	3001.0			-11-	-11-	x	x	1	1	1	5		
	13:50	56° 8.362 S	43° 38.389 W	8.9	193	3041	3087			-11-	-11-	x	x	1	1	1	5		



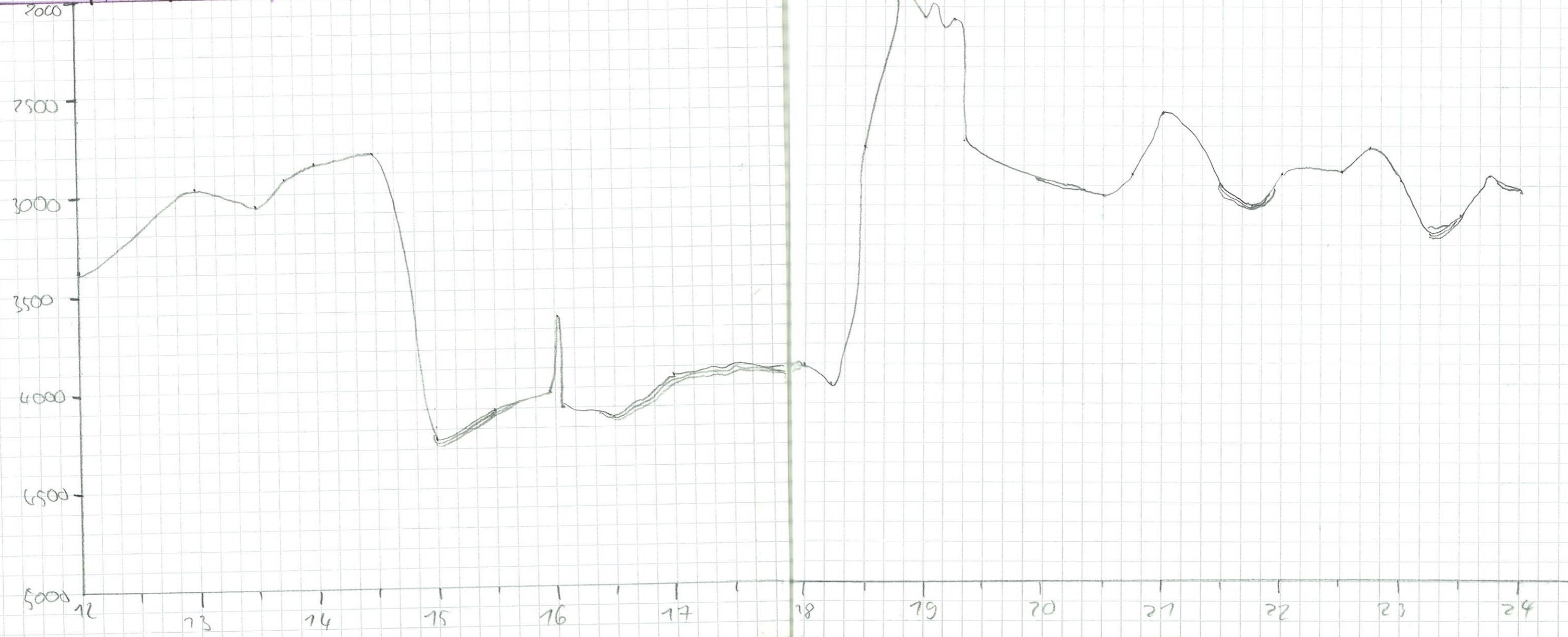
58	Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth LIS	Pulse	D-Range	Sensor op. mode	Flux	GPS	PAR	PAR PS	Net	Pulse N. length	Water kept	Remarks	59		
24.04.05		14:00	56° 13 05 S	43° 38 60 W	9.6	175	2167	2918	2	5000	PAR-P101	x	x	x	x	x	15					
		14:30	56° 17 45 S	43° 38 59 W	9.8	179	2835	2834	2	5000	PAR-P101	x	x	x	x	x	15					
		15:00	56° 22 13 S	43° 38 58 W	9.4	184	4250	4264	2	-11-	-11-	x	x	x	x	x	15					
		15:30	56° 26 46 S	43° 38 61 W	9.3	180	4119	4105	2	-11-	-11-	x	x	x	x	x	15					
		16:00	56° 31 55 S	43° 38 57 W	9.6	170	3981	3745	2	-11-	-11-	x	x	x	x	x	15					
		16:30	56° 36 32 S	43° 38 59 W	9.7	175	4031	4066	2	-11-	-11-	x	x	x	x	x	15					
		17:00	56° 41 23 S	43° 38 61 W	9.4	180	3939	3957	2	-11-	-11-	x	x	x	x	x	15					
		17:30	56° 45 9 S	43° 38 60 W	9.4	180	3922	3928	2	5	5	x	x	x	x	x	15					
		18:00	56° 50 29 S	43° 38 61 W	9.6	182	3912	3930	2	5	5	x	x	x	x	x	15					
		18:30	56° 55 23 S	43° 38 60 W	9.6	180	2821	2827	2	5	5	x	x	x	x	x	15					
		19:00	57° 0 6 S	43° 38 60 W	10.1	182	2151	2147	2	5	5	x	x	x	x	x	15					
		19:30	57° 5 9 S	43° 38 62 W	10.5	179	2775	2776	2	5	5	x	x	x	x	x	15					
		20:00	57° 10 9 S	43° 38 59 W	10.3	181	3099	3113	2	5	5	x	x	x	x	x	15					
		20:30	57° 16 0 S	43° 38 62 W	10.0	183	3049	3052	2	5	5	x	x	x	x	x	15					
		21:00	57° 21 5 S	43° 38 59 W	10.3	176	2617.2	2622	2	5	5	x	x	x	x	x	15					
		21:30	57° 25 9 S	43° 38 58 W	10.0	179	2999.9	2998.0	2	-11-	-11-	x	x	x	x	x	15					
		22:00	57° 30 8 S	43° 38 62 W	9.3	179	2957	2970	2	-11-	-11-	x	x	x	x	x	15					
		22:30	57° 31 0 S	43° 42 15 W	6.5	30	2905.9	2917.0	2	-11-	-11-	x	x	x	x	x	15					
		23:00	57° 31 1 S	43° 38 31 W	7.0	163	2988.6	3000	2	-11-	-11-	x	x	x	x	x	15					
		23:30	57° 30 3 S	43° 35 08 W	5.5	319.4	3152.5	3171.0	2	-11-	-11-	x	x	x	x	x	15					
		25.04.05		00:00	57° 31 2 S	43° 36 71 W	10.3	68.3	3036.1	3049	2	-11-	-11-	x	x	x	x	x	15			
				01:00	57° 27 5 S	43° 33 01 W	9.1	358	3161.5	3178.0	2	-11-	-11-	x	x	x	x	15				
				02:00	57° 22 7 S	43° 33 00 W	10.1	2.0	2933.7	2938.0	2	-11-	-11-	x	x	x	x	15				
				03:00	57° 17 9 S	43° 33 01 W	9.5	356	2842	2845	2	-11-	-11-	x	x	x	x	15				

15:40 intern. station
→ Telukam?
16:35 intern. station
→ 17.00

Mimandir

Geographical

3

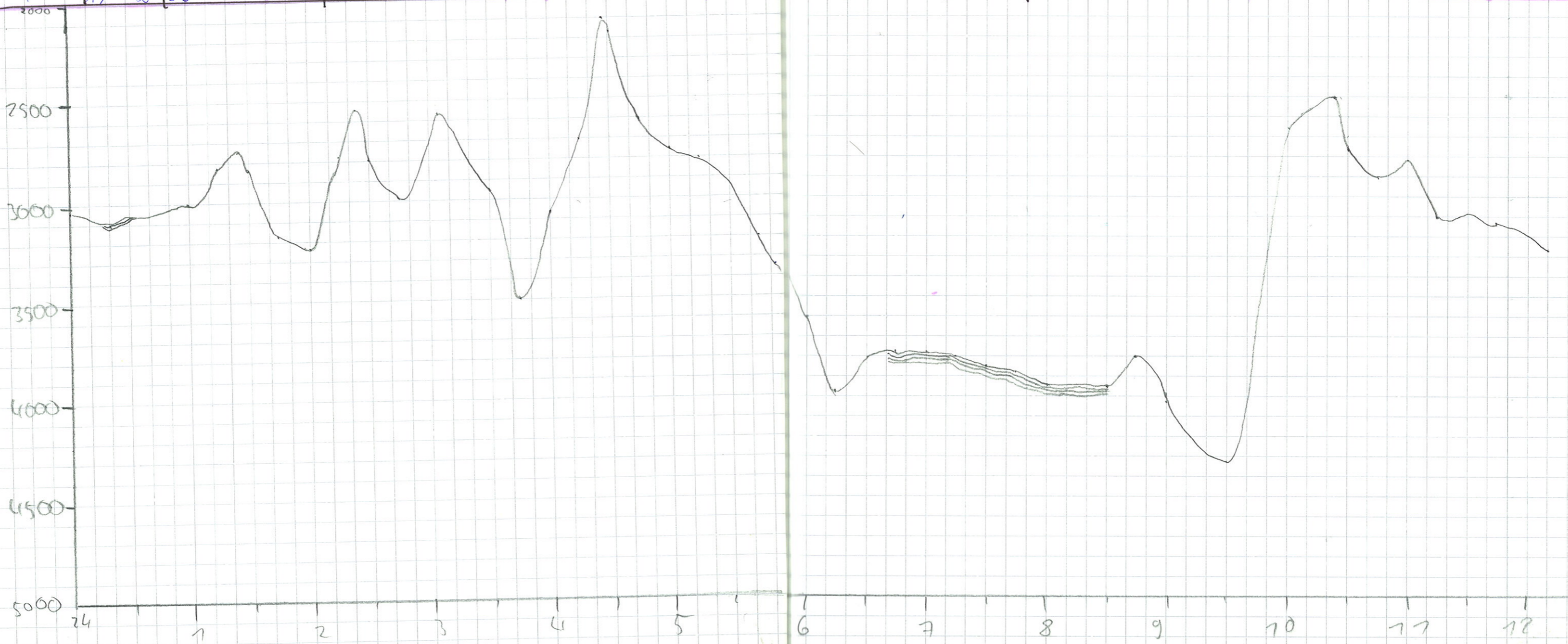


Date	Time	Latitude	Longitude	Speed	Course	Depth WS	Depth HS	Dir	Dir	D-Range	Sensor Op. Mode	Aux	NDS	PAR	PAR PS3	Meta	Pulse to. length	Water Temp	Remarks
25.04.05	02:00	57° 13.0 N	43° 32.0 W	9.1	356	3231	3229	4	2	5000	P312-P101	x	x	x	x	x	2.5		
	02:30							4	2	-	-	x	x	x	x	x	-		
	03:00	57° 03.5 N	43° 37.0 W	9.4	1.1	2565	2578	4	2	-	-	x	x	x	x	x	-		
	03:30	56° 58.6 N	43° 33.7 W	10.0	2.2	2958	3010	4	2	-	-	x	x	x	x	x	-		
	04:00	56° 57.6 N	43° 34.7 W	8.5	178	3085	3061	4	2	-	-	x	x	x	x	x	-		
	04:30	57° 19.8 N	43° 34.6 W	9.0	181	2154	2202	4	2	-	-	x	x	x	x	x	-		
	05:00	57° 55.5 N	43° 32.9 W	10.2	88	2746	2796	4	2	-	-	x	x	x	x	x	-		
	05:30	57° 06.7 N	43° 31.4 W	10.3	1.6	2869	2835	4	2	4	4	x	x	x	x	x	5		
	06:00	56° 56.8 N	43° 31.6 W	10.0	354	3464	3452	4	2	2	4	x	x	x	x	x	5		
	06:30	56° 52.0 N	43° 31.7 W	9.7	358	3777	3783	4	2	2	4	x	x	x	x	x	5		
	07:00	56° 47.2 N	43° 32.6 W	9.9	356	3773	3775	4	2	2	4	x	x	x	x	x	5		
	07:30	56° 42.5 N	43° 32.7 W	9.9	357	3540	3554	4	2	2	4	x	x	x	x	x	5		
	08:00	56° 37.7 N	43° 32.3 W	9.5	3.5	3940	3956	4	2	2	4	x	x	x	x	x	5		
	08:30	56° 33.1 N	43° 32.4 W	9.4	353	4005	4012	4	2	2	4	x	x	x	x	x	5		
	09:00	56° 28.3 N	43° 32.6 W	9.6	359	4027	4037	4	2	2	4	x	x	x	x	x	5		
	09:30	56° 23.5 N	43° 32.8 W	9.1	5.9	4337	4333	4	2	2	4	x	x	x	x	x	5		
	10:00	56° 18.8 N	43° 32.9 W	9.5	357	2657.8	2668	4	2	2	4	x	x	x	x	x	5		
	10:30	56° 14.1 N	43° 32.9 W	9.5	356	2809.9	2775.0	4	2	2	4	x	x	x	x	x	5		
	11:00	56° 9.4 N	43° 32.9 W	10.0	358	2855.8	2879.0	4	2	2	4	x	x	x	x	x	5		
	11:30	56° 4.7 N	43° 32.9 W	9.0	2.9	3101.1	3105	4	2	2	4	x	x	x	x	x	5		
	12:00	55° 59.8 N	43° 33.0 W	9.8	355	3305	3323	4	2	2	4	x	x	x	x	x	5		
	12:30	55° 54.8 N	43° 32.9 W	10.7	4.0	3312	3364	4	2	2	4	x	x	x	x	x	5		
	13:00	55° 50.0 N	43° 33.0 W	9.1	10.0	3102.6	3159.0	4	2	2	4	x	x	x	x	x	5		
	13:30	55° 44.4 N	43° 32.9 W	10.5	353	3492	3501.0	4	2	2	4	x	x	x	x	x	5		

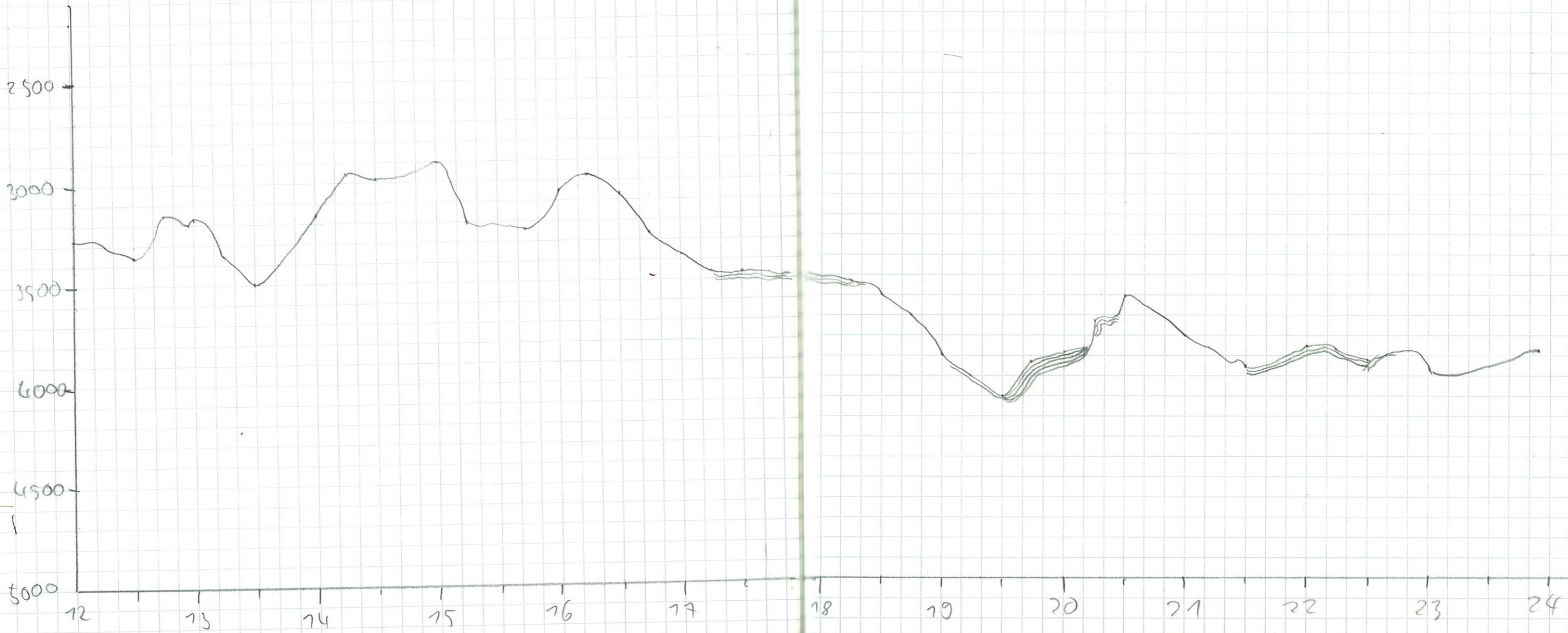
Something wrong with the NDS display
 3D data holes
 7:35 -> PAR store shut down

Simandir

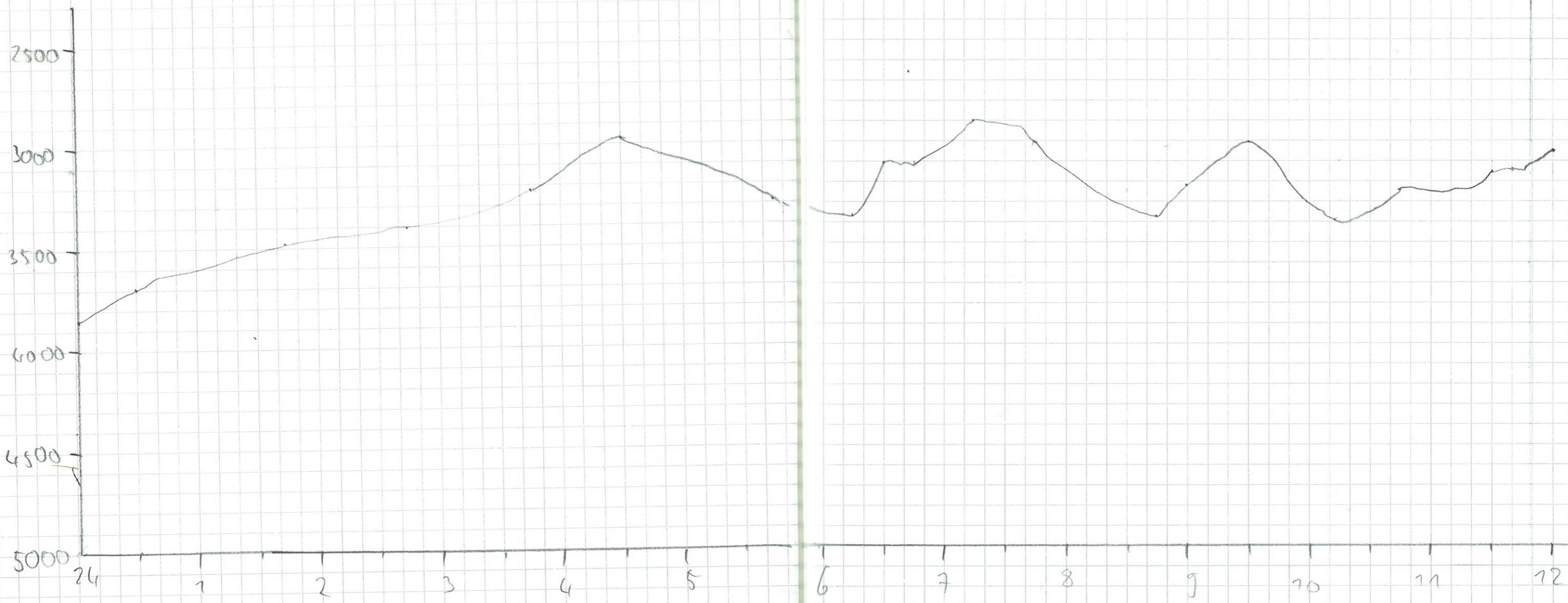
Gregorovic



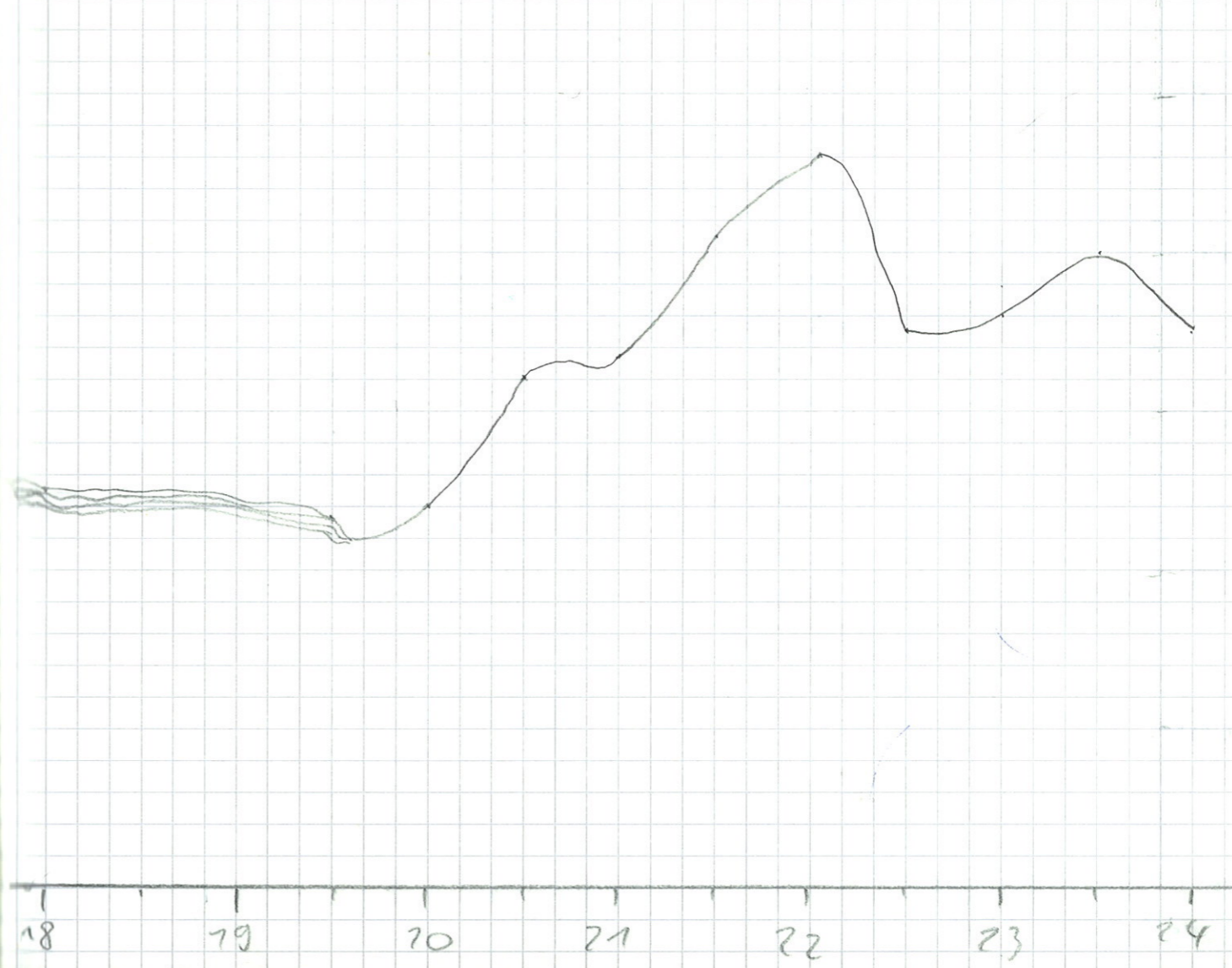
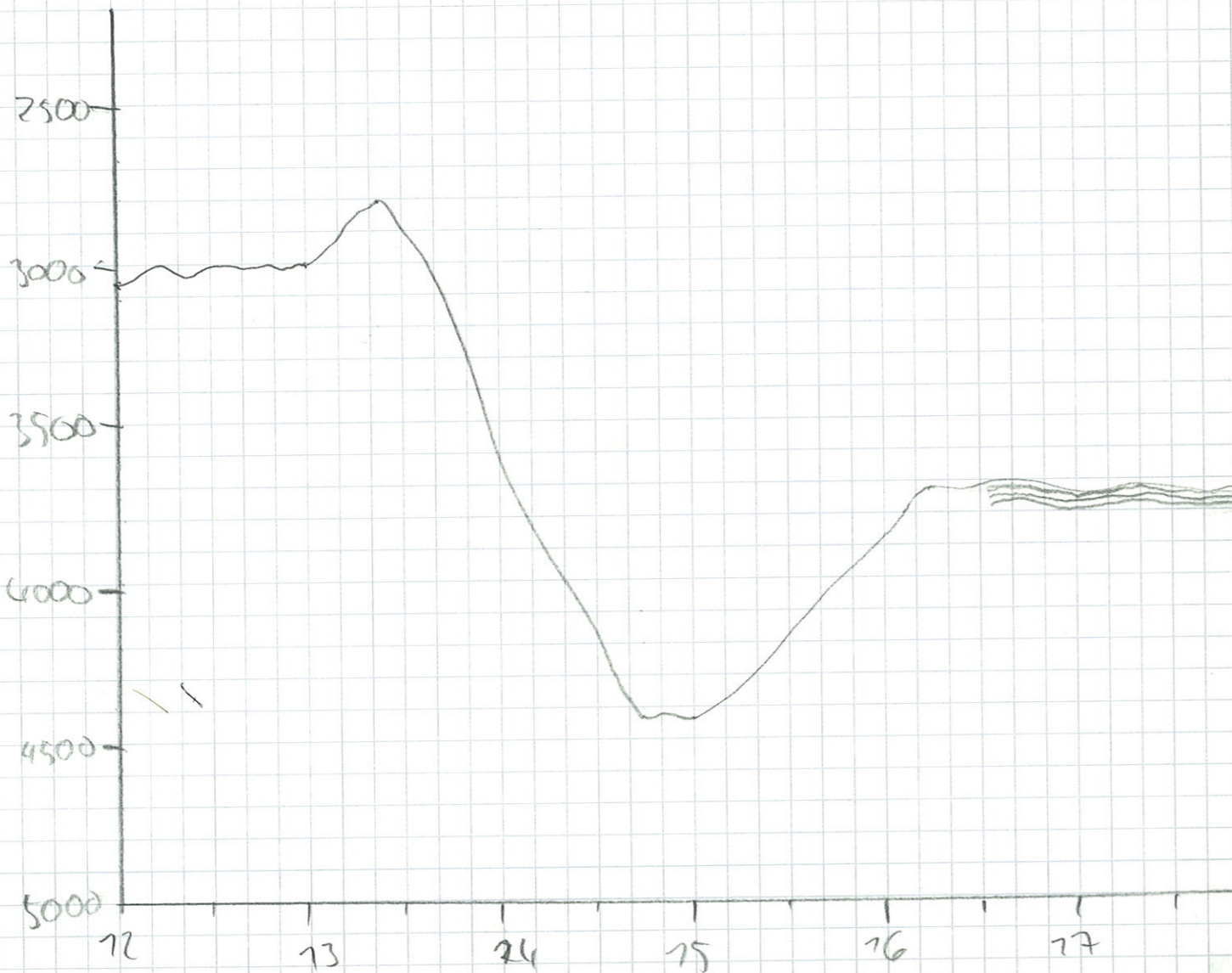
62 Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Mag	Pulse	D. Range	Sensor Op. Modus	AUX	NRBS	PAR	PAR PS3	Meta	Pulse mag/length	Match Keepes	Remarks	63
25.04.05	14:00	55° 40.252 S	43° 32.987 W	8.4	1.1	3142.4	31670	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	14:30	55° 35.616 S	43° 32.984 W	7.9	3.9	2976.2	2979.0	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	15:00	55° 31.211 S	43° 32.997 W	8.9	3.5	2905.2	2915.0	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	15:30	55° 26.754 S	43° 32.984 W	8.5	3.7	3373	3385	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	16:00	55° 22.338 S	43° 32.984 W	8.3	4.6	3643	3659	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	16:30	55° 8.699 S	43° 32.983 W	8.6	3.5	3430	3439	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	17:00	55° 13.342 S	43° 33.016 W	10.7	3.7	3796	3844	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	17:30	55° 17.979 S	43° 32.961 W	9.9	3.7	3102	3100	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	18:00	55° 3.964 S	43° 32.910 W	9.4	5.0	3577	3526	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	18:30	54° 59.253 S	43° 32.983 W	9.7	7.4	3589	3606	4	2	- -	- -	x	x	x	x	x	- -	Gregoria	18.32 auf dem Boden?	
	19:00	54° 54.363 S	43° 32.975 W	9.9	7.4	3916	3926	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	19:30	54° 49.555 S	43° 32.967 W	11.0	3.4	4111	4117	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	20:00	54° 44.388 S	43° 33.005 W	9.5	3.5	3894	3904	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	20:30	54° 39.460 S	43° 32.870 W	10.7	9.7	3602	3630	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	21:00	54° 40.286 S	43° 27.510 W	3.5	168	3664	3825	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	21:30	54° 42.012 S	43° 27.518 W	4.3	160	3891	3902	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	22:00	54° 44.509 S	43° 27.491 W	3.3	196	3863	3888	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	22:30	54° 46.665 S	43° 27.472 W	4.5	193	3920	3936	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
23:00	54° 48.885 S	43° 27.527 W	3.4	180	3980.4	3984.0	4	2	- -	- -	x	x	x	x	x	- -	Gregoria			
23:30	54° 51.192 S	43° 27.507 W	3.4	183	3902.1	3855.0	4	2	- -	- -	x	x	x	x	x	- -	Gregoria			
26.04.05	24:00	54° 53.636 S	43° 27.535 W	5.7	191	2204	3902	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	24:30	54° 56.048 S	43° 27.522 W	5.4	163	3691	3710	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	1:00	54° 58.451 S	43° 27.477 W	5.8	177	3563.4	3585	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		
	1:30	55° 1.122 S	43° 27.561 W	5.4	159	3485.2	3502	4	2	- -	- -	x	x	x	x	x	- -	Gregoria		



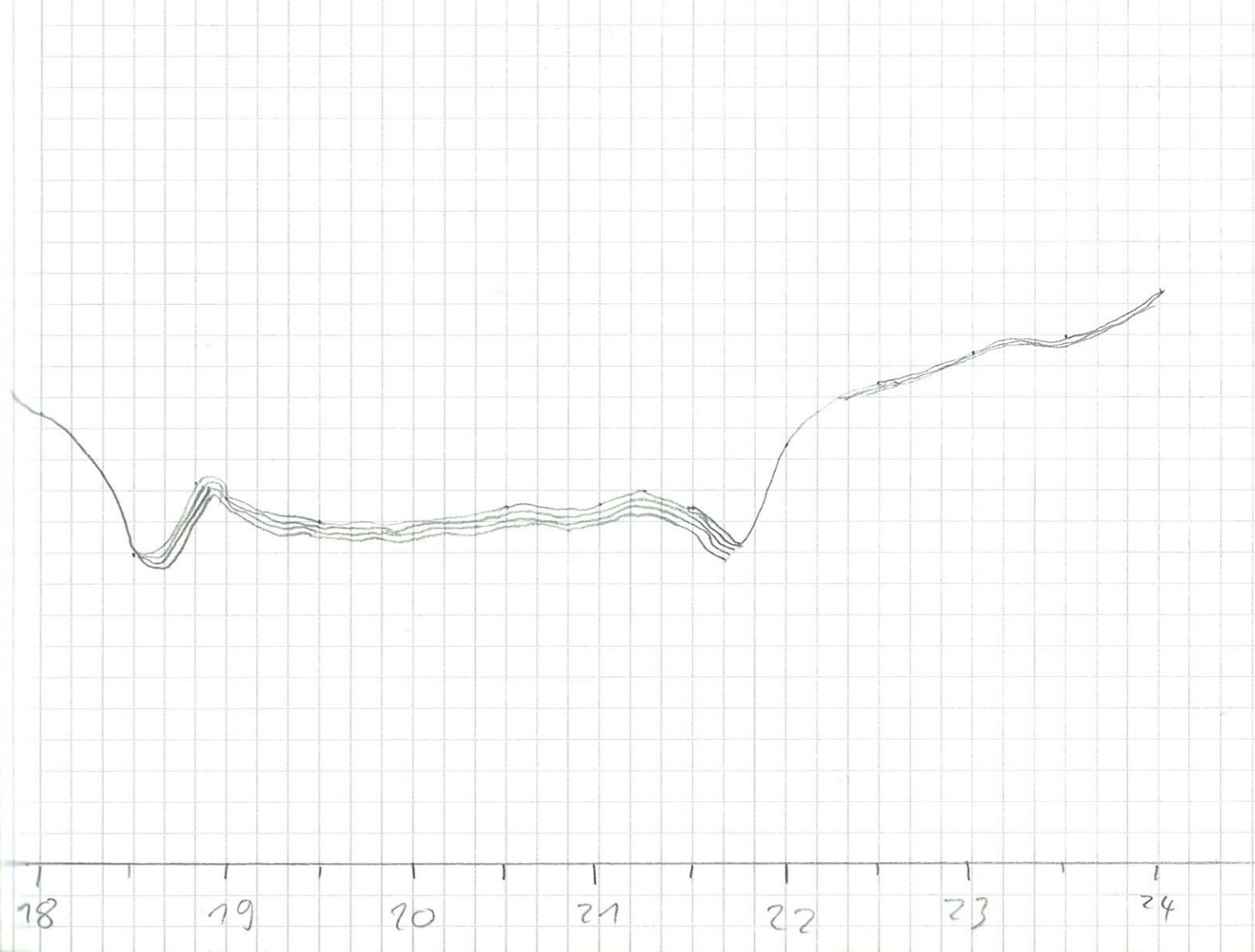
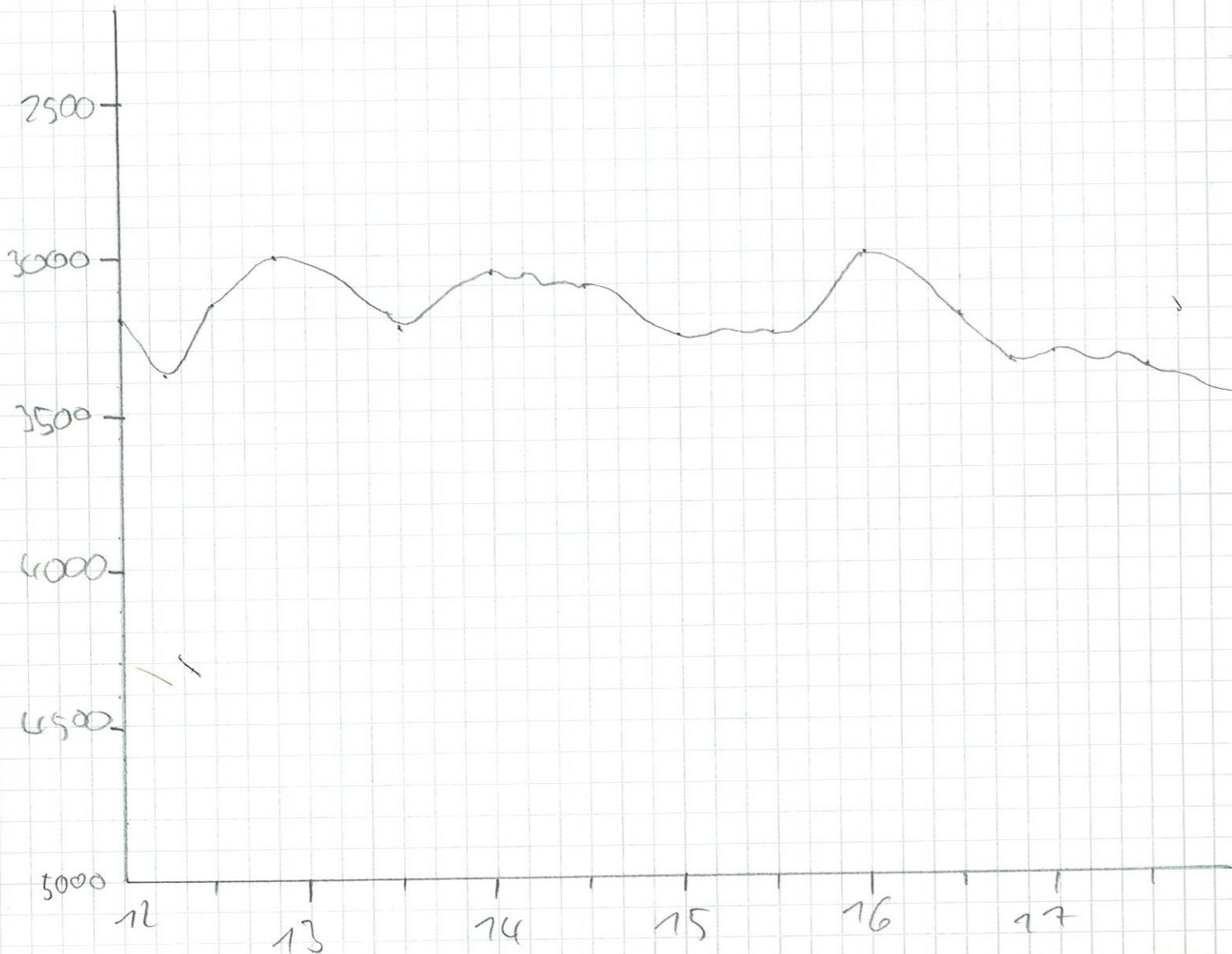
Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D. Range	Sensor Operat. Modus	AUX	NBS	PAR	PAR PSS	Meto	Probe Transm Venght	Watch Keeper	Remarks
26.04.05	2:00	55° 3. 899 S	43° 27. 544 W	6.1	188.2	3460.8	3474.0	4	2	11	11	x	x	x	x	x	11	Egeponitz	
	2:30	55° 6. 625 S	43° 27. 551 W	5.3	170	3410.5	3422.0	4	2	11	11	x	x	x	x	x	11		
	3:00	55° 9. 580 S	43° 27. 518 W	4.3	184	3407	3423	4	2	11	11	x	x	x	x	x	11		
	3:30	55° 12. 422 S	43° 27. 501 W	5.4	183	3265	3272	4	2	11	11	x	x	x	x	x	11		
	4:00	55° 15. 501 S	43° 27. 583 W	5.1	168	3763	3784	4	2	11	11	x	x	x	x	x	11		
	4:30	55° 18. 270 S	43° 27. 543 W	6.9	173	3992	3005	4	2	11	11	x	x	x	x	x	11		
	5:00	55° 21. 278 S	43° 27. 553 W	6.4	179	3779	3774	4	2	11	11	x	x	x	x	x	11		
	5:30	55° 24. 234 S	43° 27. 556 W	5.1	169	3241	3244	4	2	11	11	x	x	x	x	x	11		
	6:00	55° 27. 305 S	43° 27. 535 W	4.9	157	3342	3329	4	2	11	11	x	x	x	x	x	11		
	6:30	55° 30. 342 S	43° 27. 512 W	6.1	183	3097	3084	4	2	11	11	x	x	x	x	x	11		
	7:00	55° 33. 295 S	43° 27. 537 W	5.9	200	2974	2983	4	2	11	11	x	x	x	x	x	11		
	7:30	55° 36. 301 S	43° 27. 543 W	6.4	167	2942	2944	4	2	4	4	x	x	x	x	x	4		
	8:00	55° 39. 390 S	43° 27. 579 W	6.2	183	3119	3116	4	2	2	2	x	x	x	x	x	2		
	8:30	55° 42. 405 S	43° 27. 530 W	6.7	191	3326	3326	4	2	3	3	x	x	x	x	x	3		
	9:00	55° 45. 674 S	43° 27. 557 W	6.6	180	3215	3248	4	2	4	4	x	x	x	x	x	4		
	9:30	55° 48. 742 S	43° 27. 494 W	6.6	189	2992	3042	4	2	5	5	x	x	x	x	x	5		
	10:00	55° 51. 914 S	43° 27. 495 W	6.6	187	3275	3294	4	2	5	5	x	x	x	x	x	5		
	10:30	55° 55. 720 S	43° 27. 504 W	6.6	175	3287	3299	4	2	11	11	x	x	x	x	x	11		
	11:00	55° 58. 369 S	43° 27. 486 W	6.6	171	3205.0	3255.2	4	2	11	11	x	x	x	x	x	11		
	11:30	56° 1. 324 S	43° 27. 472 W	6.8	164	3225.6	3186	4	2	11	11	x	x	x	x	x	11		
	12:00	56° 4. 969 S	43° 27. 487 W	6.9	178	3143.9	3135.0	4	2	11	11	x	x	x	x	x	11		
	12:30	56° 7. 827 S	43° 27. 543 W	7.8	165	3117.1	3118	4	2	11	11	x	x	x	x	x	11		
	13:00	56° 11. 403 S	43° 27. 563 W	7.5	179	3015.6	3018.0	4	2	11	11	x	x	x	x	x	11		
	13:30	56° 15. 109 S	43° 24. 545 W	6.8	173	2859.6	2880	4	2	11	11	x	x	x	x	x	11		



66 Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Wg	Pulse	D. Range	Sensor operat. Modus	AUX	NBS	PAR	PAR PS3	Met	Pulse train length	Watch Keeper	Remarks	67			
26.04.05	14:00	56° 18.703 S	43° 27.534 W	5.9	170	2798.9	2822.0	2	11	11	11	x	x	x	x	x	11	Gregorius					
	14:30	56° 22.271 S	43° 27.518 W	6.7	180	3960.9	3960	2	11	11	11	x	x	x	x	x	11						
	15:00	56° 25.883 S	43° 27.503 W	7.3	182	4408.8	4417.0	2	11	11	11	x	x	x	x	x	11						
	15:30	56° 29.245 S	43° 27.391 W	7.1	190	4046	4056	2	11	11	11	x	x	x	x	x	11						
	16:00	56° 32.813 S	43° 27.505 W	7.3	177	3778	3804	2	11	11	11	x	x	x	x	x	11						
	16:30	56° 36.414 S	43° 27.577 W	7.7	174	3849	3863	2	11	11	11	x	x	x	x	x	11						
	17:00	56° 40.109 S	43° 27.509 W	7.5	182	3817	3827	2	11	11	11	x	x	x	x	x	11						
	17:30	56° 42.014 S	43° 27.522 W	6.9	179	3116	3803	2	11	11	11	x	x	x	x	x	11						
	18:00	56° 45.095 S	43° 27.507 W	6.9	182	3752	3772	2	11	11	11	x	x	x	x	x	11						
	18:30																						
	19:00	56° 50.614 S	43° 28.206 W	9.6	79	3790	3793	2	11	11	11	x	x	x	x	x	11				Bog		
	19:30	56° 53.619 S	43° 27.544 W	7.2	190	3843	3851	2	11	11	11	x	x	x	x	x	11						
	20:00	56° 56.932 S	43° 27.486 W	6.5	179	3071	3774	2	11	11	11	x	x	x	x	x	11						
	20:30	57° 00.226 S	43° 27.501 W	6.8	181	3394	3406	2	11	11	11	x	x	x	x	x	11						
	21:00	57° 03.555 S	43° 27.508 W	5.8	183	3327	3327	2	11	11	11	x	x	x	x	x	11						
	21:30	57° 06.756 S	43° 27.470 W	6.2	178	2957	2967	2	11	11	11	x	x	x	x	x	11						
	22:00	57° 10.082 S	43° 27.502 W	6.8	177	2759	2765	2	11	11	11	x	x	x	x	x	11						
	22:30	57° 13.364 S	43° 27.515 W	6.9	174	3291	3260	2	11	11	11	x	x	x	x	x	11						
23:00	57° 16.499 S	43° 27.508 W	6.9	175	3207.1	32260	2	11	11	11	x	x	x	x	x	11							
23:30	57° 19.575 S	43° 27.560 W	6.1	185	2996.3	3021	2	11	11	11	x	x	x	x	x	11							
27.04.05	24:00	57° 22.499 S	43° 27.476 W	5.8	183	3269.8	3274.0	2	11	11	11	x	x	x	x	x	11	Stegorius	0.15-2.15 sediment				
	24:30	57° 25.390 S	43° 27.498 W	4.9	168	3198.6	3197	2	11	11	11	x	x	x	x	x	11						
	01:00	57° 28.263 S	43° 27.461 W	6.1	176	3452.3	3178	2	11	11	11	x	x	x	x	x	11						
	01:30	57° 30.481 S	43° 27.966 W	8.6	81	3209.8	3219.0	2	11	11	11	x	x	x	x	x	11						

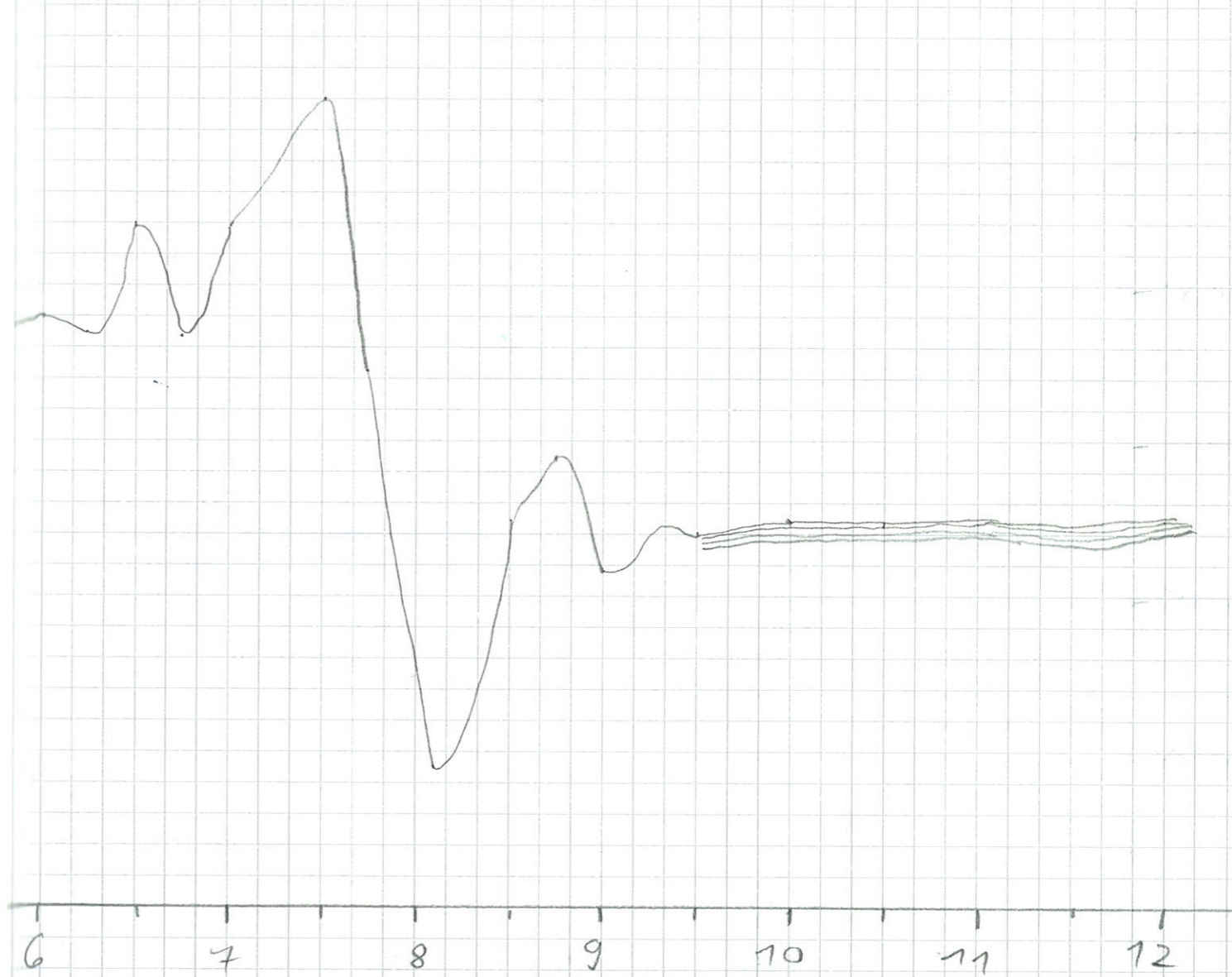
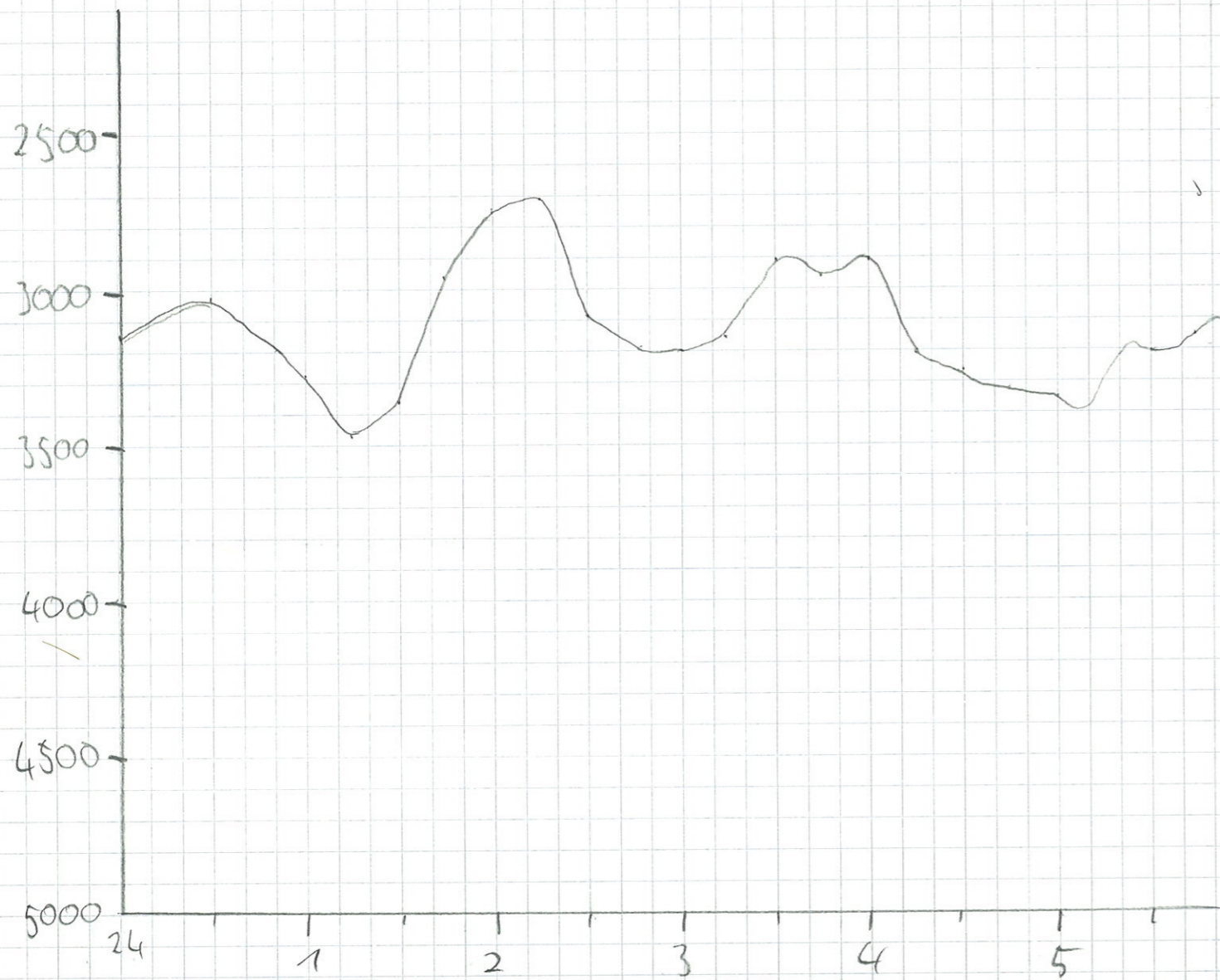


Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	freq.	Pulse	D. Range	Sensor Operat. Modus	AUX	NBS	PAR	PAR PSS	metr	Pulse Train Length	Netch keeper	Remarks
27.04.05	14:00	55° 34. 670 S	43° 21. 442 W	9.4	8.5	3055.7	3066.0	4	2	5000	Par-Pilot	x	x	x	x	x	Min.	Jegorovic	
	14:30	55° 30. 885 S	43° 21. 512 W	9.4	10.7	3074.0	3087.0	4	2	- -	- -	x	x	x	x	x	- -		
	15:00	55° 26. 995 S	43° 21. 499 W	10.1	355	3267.0	3275.0	4	2	- -	- -	x	x	x	x	x	- -		
	15:30	55° 21. 042 S	43° 21. 501 W	10.0	355	3254	3267	4	2	- -	- -	x	x	x	x	x	- -		
	16:00	55° 16. 194 S	43° 21. 524 W	9.2	359	3017	3021	4	2	- -	- -	x	x	x	x	x	- -		
	16:30	55° 11. 510 S	43° 21. 500 W	9.1	0.4	3216	3229	4	2	- -	- -	x	x	x	x	x	- -		
	17:00	55° 7. 070 S	43° 21. 512 W	9.6	0.6	3326	3340	4	2	- -	- -	x	x	x	x	x	- -		
	17:30	55° 2. 310 S	43° 21. 501 W	9.6	757	3384	3397	4	2	- -	- -	x	x	x	x	x	- -		
	18:00	54° 57. 405 S	43° 21. 504 W	9.6	1.9	3567	3582	4	2	- -	- -	x	x	x	x	x	- -		
	18:30	54° 52. 444 S	43° 21. 462 W	9.7	0.4	3994	4010	4	2	- -	- -	x	x	x	x	x	- -		
	19:00	54° 47. 534 S	43° 21. 491 W	9.4	7.0	3836	3845	4	2	- -	- -	x	x	x	x	x	- -		
	19:30	54° 43. 101 S	43° 21. 493 W	9.9	2.6	3859	3873	4	2	- -	- -	x	x	x	x	x	- -		
	20:00	54° 39. 611 S	43° 21. 010 W	9.9	84.5	3854	3870	4	2	- -	- -	x	x	x	x	x	- -		
	20:30	54° 42. 199 S	43° 21. 989 W	8.5	778	3855	3872	4	2	- -	- -	x	x	x	x	x	- -		
	21:00	54° 46. 420 S	43° 16. 072 W	7.1	181	3841	3857	4	2	- -	- -	x	x	x	x	x	- -		
21:30	54° 50. 600 S	43° 15. 991 W	7.8	186	3863	3883	4	2	- -	- -	x	x	x	x	x	- -			
22:00	54° 54. 786 S	43° 16. 015 W	8.7	777	3661	3667	4	2	- -	- -	x	x	x	x	x	- -			
22:30	54° 58. 946 S	43° 15. 916 W	8.9	778	3452	3462	4	2	- -	- -	x	x	x	x	x	- -			
23:00	55° 3. 215 S	43° 16. 016 W	8.9	777	3334	3347	4	2	- -	- -	x	x	x	x	x	- -			
23:30	55° 7. 461 S	43° 16. 000 W	8.1	173	32918	33060	4	2	- -	- -	x	x	x	x	x	- -			
28.04.05	24:00	55° 11. 798 S	43° 15. 995 W	8.8	183.	3157.0	3171.0	4	2	- -	- -	x	x	x	x	x	- -	Jegorovic	
	1:00	55° 16. 249 S	43° 15. 990 W	9.0	178	3055.1	3051.0	4	2	- -	- -	x	x	x	x	x	- -		
	1:30	55° 25. 159 S	43° 15. 990 W	8.8	174	3855.9	3407.0	4	2	- -	- -	x	x	x	x	x	- -		
	1:30	55° 25. 140 S	43° 15. 990 W	9.2	175	3423.1	3357.5	4	2	- -	- -	x	x	x	x	x	- -		

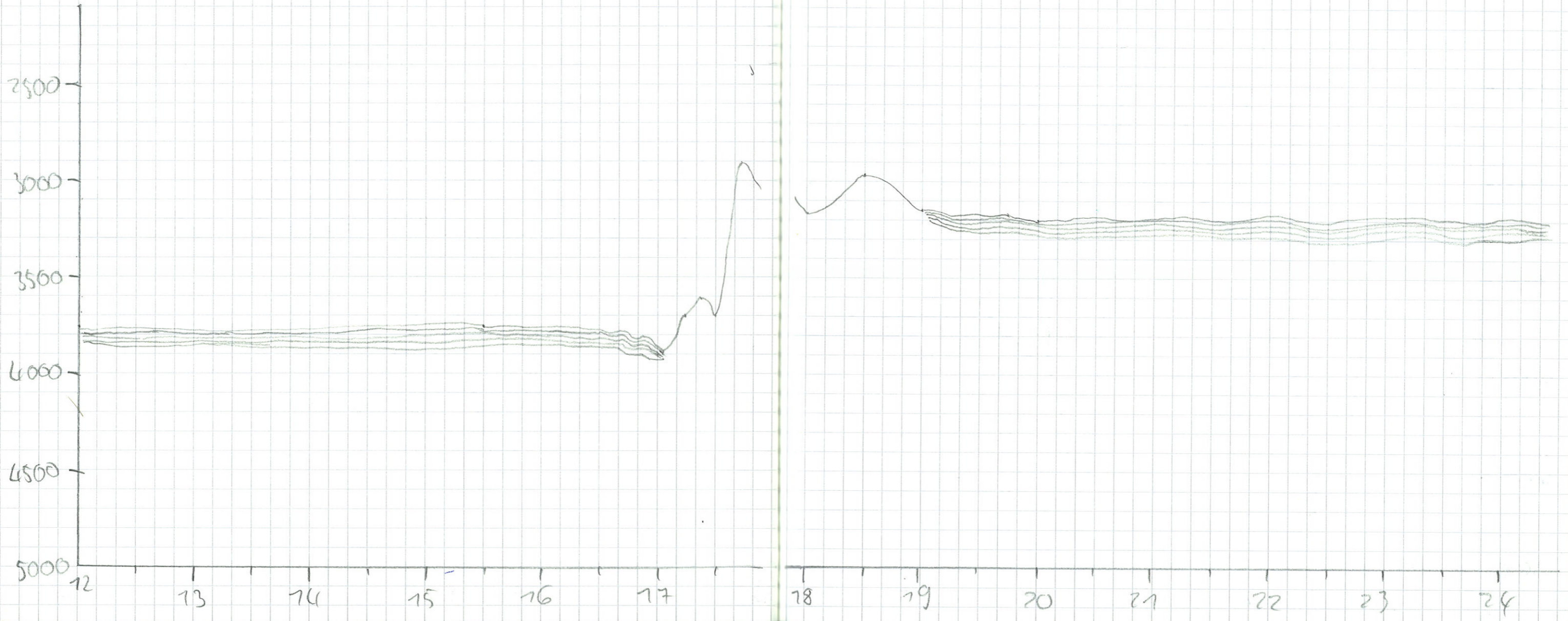


Profile 67/204 Ende ca. 1955

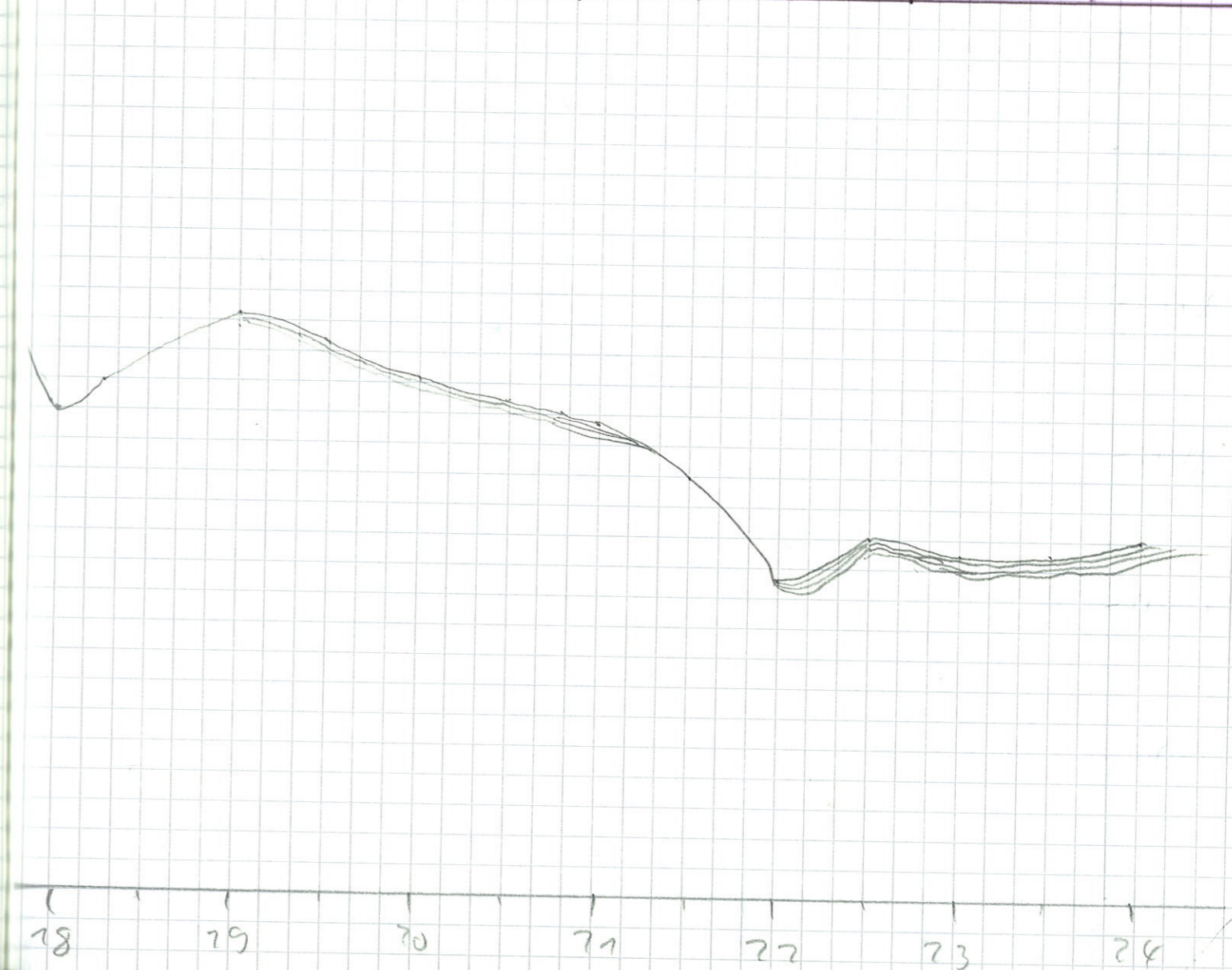
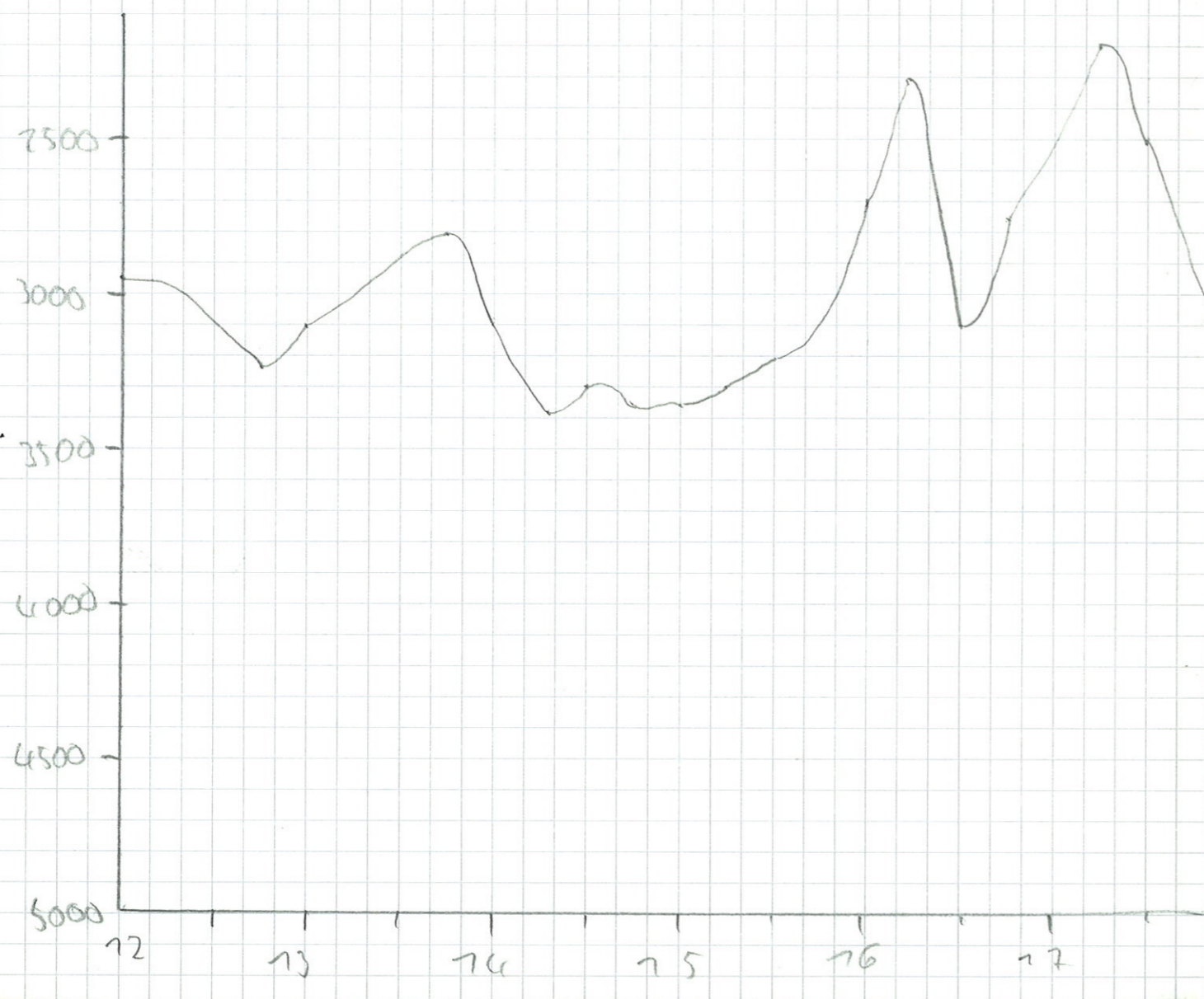
Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq	D.Range	Sensor operat. Modus	AUX	NBS	PAR	PAR PSS	Metd	Pulse Train Length	Watch keeper	Remarks
28.04.05	2:00	55° 29.583 S	43° 16.000 W	8.8	183	2795.0	2765.0	4	2	5000 Par-Pilot	x	x	x	x	x	Mim		
	2:30	55° 33.958 S	43° 16.011 W	9.1	181	3049.1	3096.0	4	2	" "	x	x	x	x	x	"	Greenwich	
	3:00	55° 38.349 S	43° 16.024 W	9.0	185	3181.2	3192.0	4	2	" "	x	x	x	x	x	"		
	3:30	55° 42.789 S	43° 15.997 W	9.3	180	2912	2919	4	2	" "	x	x	x	x	x	"		
	4:00	55° 47.405 S	43° 15.997 W	9.1	178	3190	3101	4	2	" "	x	x	x	x	x	"		
	4:30	55° 52.066 S	43° 16.003 W	9.2	179	3264	3287	4	2	" "	x	x	x	x	x	"		
	5:00	55° 56.823 S	43° 15.991 W	9.0	175	3370	3375	4	2	" "	x	x	x	x	x	"		
	5:30	56° 01.599 S	43° 15.985 W	9.4	178	3214	3215	4	2	" "	x	x	x	x	x	"		
	6:00	56° 06.413 S	43° 15.992 W	9.4	178	3111	3120	4	2	" "	x	x	x	x	x	"		
	6:30	56° 11.200 S	43° 16.019 W	9.5	182	2854	2796	4	2	" "	x	x	x	x	x	"		
	7:00	56° 16.002 S	43° 15.985 W	9.6	180	2794	2824	4	2	" "	x	x	x	x	x	"		
	7:30	56° 20.800 S	43° 16.010 W	10.1	177	2615	2632	4	2	" "	x	x	x	x	x	"		
	8:00	56° 25.594 S	43° 15.996 W	9.4	175	4333	4349	4	2	" "	x	x	x	x	x	"		
	8:30	56° 30.765 S	43° 15.998 W	9.0	172	3920	3655	4	2	" "	x	x	x	x	x	"		
	9:00	56° 34.934 S	43° 15.986 W	9.3	178	3919	3942	4	2	" "	x	x	x	x	x	"		
	9:30	56° 39.453 S	43° 16.000 W	9.6	179	3907	3821	4	2	" "	x	x	x	x	x	"		
	10:00	56° 41.852 S	43° 19.441 W	8.4	268	3763	3783	4	2	" "	x	x	x	x	x	"		
	10:30	56° 42.06 S	43° 21.25 W	7.5	22	3766	3787	4	2	" "	x	x	x	x	x	"		
	11:00																	
	11:30																	
	12:00																	
	12:30																	
	13:00																	
	13:30																	
Station KOL 67/205-2 MUC 67/205-4																		



74 Date	Time	Lat/mile	Long/mile	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D. Range	Sensor Operat. Modus	AUX	NBS	PAR	PAR PS	Meta	Pulse Train Length	Watch Keeper	Remarks	75
28.04.05	14:00																			Station KOL, MUC
	14:30																			
	15:00	56° 44.888 S	43° 15.906 W	9.9	178.1	3765.4	3782.0	4	2	5000	Par-Plot	x	x	x	x	x	min.			
	15:30	56° 49.875 S	43° 16.013 W	10.0	177.8	3750	3766	4	2	5000	-"-	x	x	x	x	x	-"-			
	16:00	56° 54.788 S	43° 15.985 W	9.6	180	3727	3743	4	2	-"-	-"-	x	x	x	x	x	-"-			
	16:30	56° 59.776 S	43° 15.891 W	10.0	182	3745	3762	4	2	-"-	-"-	x	x	x	x	x	-"-			
	17:00	57° 4.729 S	43° 16.023 W	9.7	179	3839	3848	4	2	-"-	-"-	x	x	x	x	x	-"-			
	17:30	57° 9.613 S	43° 15.999 W	9.7	180	3672	3720	4	2	-"-	-"-	x	x	x	x	x	-"-			
	18:00	57° 14.538 S	43° 16.023 W	9.6	178	3763	3774	4	2	-"-	-"-	x	x	x	x	x	-"-			
	18:30																			
	19:00	57° 24.048 S	43° 16.011 W	9.7	171	3760	3776	4	2	-"-	-"-	x	x	x	x	x	-"-			
	19:30	57° 24.631 S	43° 22.981 W	9.0	271	3767	3773	4	2	-"-	-"-	x	x	x	x	x	-"-			
	20:00																			
	20:30																			
	21:00																			
	21:30																			
	22:00																			
	22:30																			
	23:00																			
	23:30																			
29.04.05	24:00	57° 27.658 S	43° 24.747 W	10.1	91	3780	3795	4	2	5000	-"-	x	x	x	x	x	-"-			
	24:30	57° 24.072 S	43° 45.989 W	8.8	186	3780	3794	4	2	5000	-"-	x	x	x	x	x	-"-			
	1:00	57° 28.893 S	43° 15.990 W	8.8	184	3243	3227	4	2	-"-	-"-	x	x	x	x	x	-"-			
	1:30	57° 29.819 S	43° 10.396 W	9.7	103	3271	3283	4	2	-"-	-"-	x	x	x	x	x	-"-			

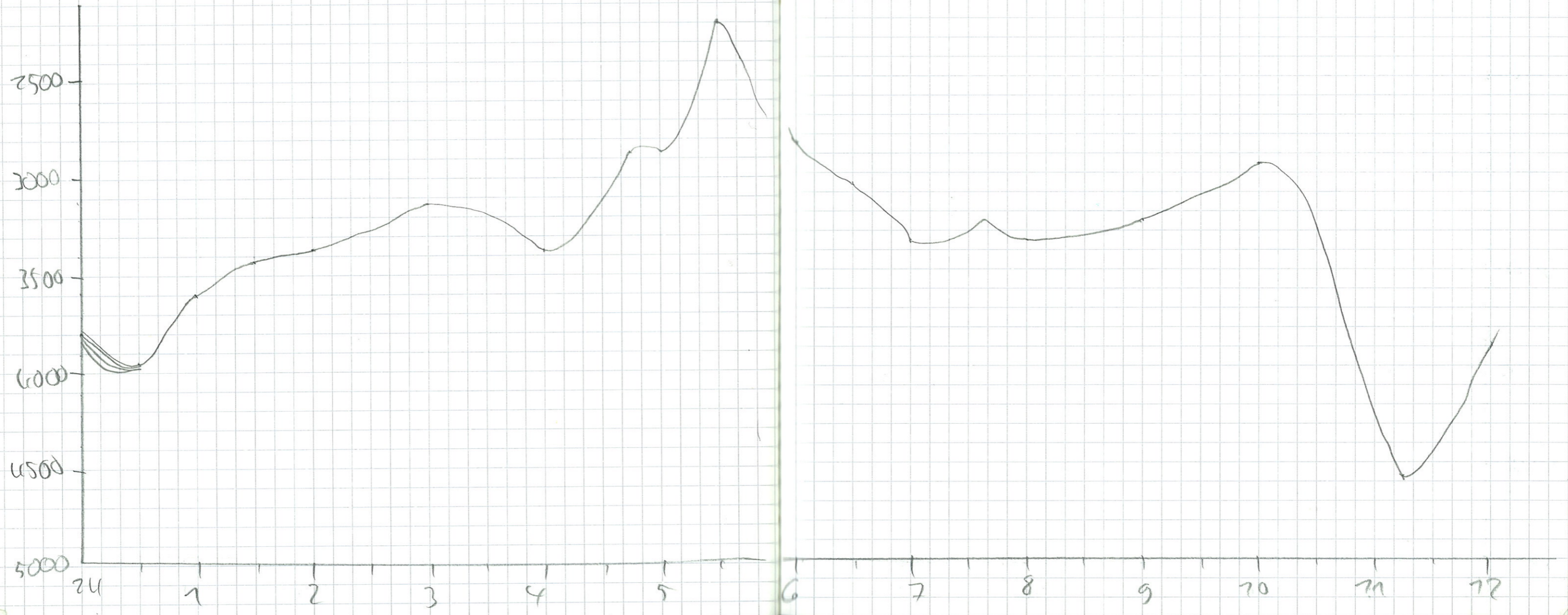


78 Date	Time	Latitude	Longitude	Speed	Course	Depth FS	Depth HS	Freq.	Pulse	D. Range	Sensor operat. Modus	AUX	NBS	PAR	PAR PS5	Meta	Pulse Transmitt length	Hatch keeper	Remarks	
29. 04. 05	14:00	55° 58.260 S	43° 10.519 W	9.4	358	3089.5	3155.0	4	2	5000	Par-Pilot	x	x	x	x	x				
	14:30	55° 53.604 S	43° 10.512 W	9.5	360	3274.8	3296.0	4	2	-"-	-"-	x	x	x	x	x	Min. -"-	Gregoroid		
	15:00	55° 48.952 S	43° 10.481 W	8.6	356	3367.7	3369	4	2	-"-	-"-	x	x	x	x	x	-"-			
	15:30	55° 44.422 S	43° 10.492 W	9.5	359	3025	3040	4	2	-"-	-"-	x	x	x	x	x	-"-			
	16:00	55° 39.413 S	43° 10.493 W	9.7	0.6	3271.4	2777	4	2	-"-	-"-	x	x	x	x	x	-"-			
	16:30																			
	17:00																			
	17:30	55° 26.649 S	43° 10.509 W	9.0	0.6	2509	2571	4	2	-"-	-"-	x	x	x	x	x	-"-			
	18:00																			
	18:30	55° 17.943 S	43° 10.496 W	7.8	1.6	3278	3292	4	2	-"-	-"-	x	x	x	x	x	-"-			
	19:00	55° 13.903 S	43° 10.478 W	7.7	355	3090	3100	4	2	-"-	-"-	x	x	x	x	x	-"-			
	19:30	55° 10.042 S	43° 10.512 W	7.5	356	3172	3176	4	2	5	5	x	x	x	x	x	5			
	20:00	55° 6.725 S	43° 10.505 W	7.8	359	3294	3291	4	2	7	7	x	x	x	x	x	5			
	20:30	55° 2.293 S	43° 10.467 W	7.7	3.3	3345	3362	4	2	5	5	x	x	x	x	x	5			
	21:00	54° 58.414 S	43° 10.497 W	7.6	3.0	3425	3424	4	2	7	7	x	x	x	x	x	5			
	21:30	54° 54.302 S	43° 10.472 W	8.4	0	3621	3628	4	2	5	5	x	x	x	x	x	5			
	22:00	54° 50.735 S	43° 10.494 W	8.1	359	3116	3157	4	2	5	5	x	x	x	x	x	5			
22:30	54° 45.997 S	43° 10.495 W	8.3	200	3814	3820	4	2	2	2	x	x	x	x	x	5				
23:00	54° 41.813 S	43° 10.489 W	7.9	2.0	3848	3866	4	2	7	7	x	x	x	x	x	5				
23:30	54° 39.559 S	43° 06.453 W	9.8	107.8	3860.3	3875	4	2	4	4	x	x	x	x	x	5				
30. 04. 05	24:00	54° 44.146 S	43° 05.795 W	9.4	181.0	3787.4	3804	4	2	-"-	-"-	x	x	x	x	x	5			
	24:30	54° 48.917 S	43° 05.811 W	9.0	176.0	3948.9	3961	4	2	-"-	-"-	x	x	x	x	x	5			
	1:00	54° 53.568 S	43° 05.786 W	8.7	182	3586	3604	4	2	-"-	-"-	x	x	x	x	x	5			
	1:30	54° 58.369 S	43° 05.789 W	9.5	183	3427.4	3438	4	2	-"-	-"-	x	x	x	x	x	5			



Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS
30.04.05	2:00	55° 03.157	S 43° 05.810 W	10.0	174.9	3363.1	3370
	2:30	55° 08.001	S 43° 05.805 W	9.6	175.1	3251.0	3266
	3:00	55° 12.852	S 43° 5.701 W	9.3	182	3146	3176
	3:30	55° 17.531	S 43° 5.788 W	9.4	180	3369	3359
	4:00	55° 22.165	S 43° 5.809 W	9.6	184	3384	3377
	4:30	55° 26.844	S 43° 5.872 W	9.5	181	3258.5	2581
	5:00	55° 31.393	S 43° 5.810 W	9.3	178	2810	2879
	5:30	55° 35.869	S 43° 5.798 W	8.2	175	2401	2327
	6:00	55° 40.286	S 43° 5.801 W	8.8	185	2831	2821
	6:30	55° 44.705	S 43° 5.813 W	9.0	183	3040	3031
	7:00	55° 49.148	S 43° 5.814 W	9.7	180	3358	3370
	7:30	55° 53.678	S 43° 5.798 W	8.5	183	3292	3305
	8:00	55° 58.208	S 43° 5.800 W	8.3	180	3257	3274
	8:30	56° 02.748	S 43° 5.800 W	8.3	180	3299	3308
	9:00	56° 07.138	S 43° 5.804 W	8.9	185	3236	3246
	9:30	56° 11.356	S 43° 5.792 W	8.5	176	3149	3147
	10:00	56° 15.452	S 43° 5.794 W	7.9	177	2957	2957
	10:30	56° 19.501	S 43° 5.803 W	8.3	182	2609	2630
	11:00	56° 23.682	S 43° 05.803 W	8.2	181	2696.9	2785.0
	11:30	56° 28.009	S 43° 05.811 W	8.9	178	4158	4471
	12:00	56° 30.360	S 43° 05.790 W	8.6	186	3843.1	3877.0
	12:30	56° 34.671	S 43° 05.785 W	9.2	181	2979	3084
	13:00	56° 39.366	S 43° 05.814 W	9.3	178	3773.7	3791.0
	13:30	56° 44.000	S 43° 05.822 W	9.3	174	3746	3766

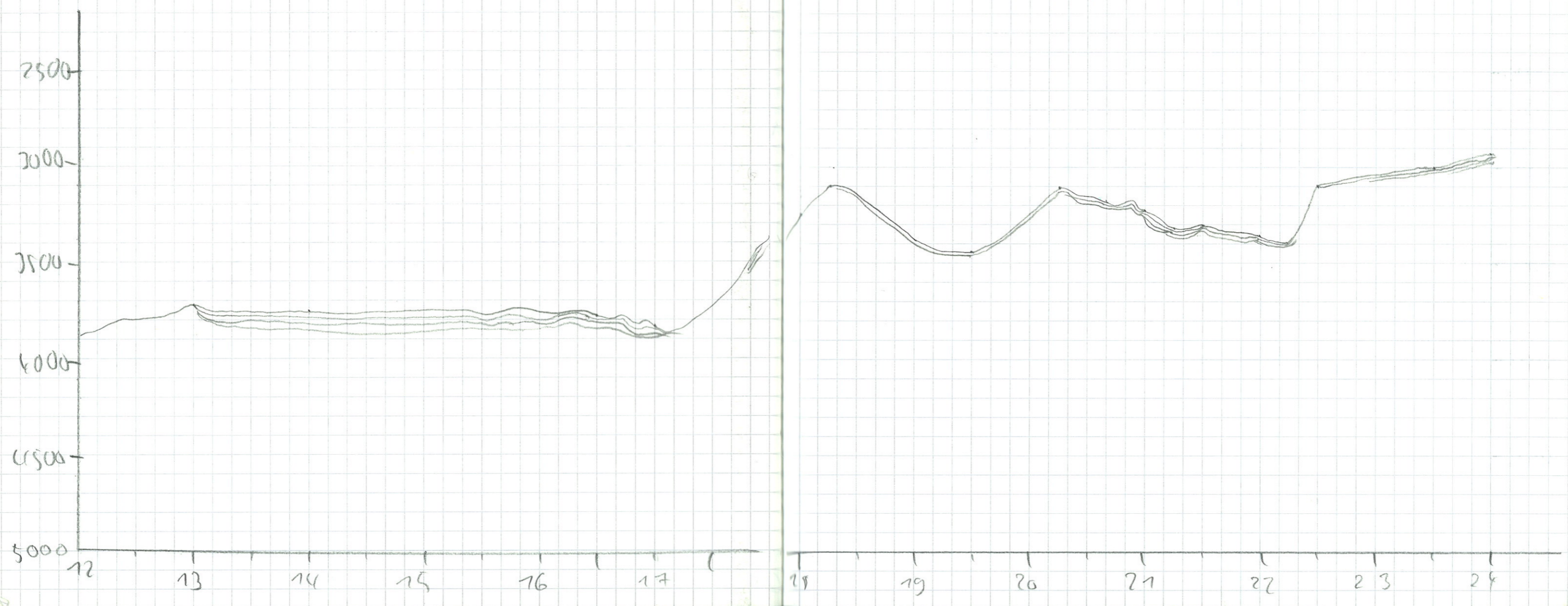
Mag.	Pole	D. Range	Sensor Operat. Modus	AUX	NBS	PAR	PAR PSS	Metz	Pulse Train Length	Watch Keeper	Remarks
2	2	5000	Par-Pilot	x	x	x	x	x	Miu.		
2	2	-11-	-11-	x	x	x	x	x	-11-		Gregorowicz
2	2	-11-	-11-	x	x	x	x	x	-11-		
2	2	-11-	-11-	x	x	x	x	x	-11-		Boch
2	2	-11-	-11-	x	x	x	x	x	-11-		
2	2	-11-	-11-	x	x	x	x	x	-11-		
2	2	-11-	-11-	x	x	x	x	x	-11-		
2	2	-11-	-11-	x	x	x	x	x	-11-		
2	2	-11-	-11-	x	x	x	x	x	-11-		
2	2	-11-	-11-	x	x	x	x	x	-11-		Stimulic
2	2	-11-	-11-	x	x	x	x	x	-11-		
2	2	-11-	-11-	x	x	x	x	x	-11-		
2	2	-11-	-11-	x	x	x	x	x	-11-		
2	2	-11-	-11-	x	x	x	x	x	-11-		Gregorowicz
2	2	-11-	-11-	x	x	x	x	x	-11-		
2	2	-11-	-11-	x	x	x	x	x	-11-		
2	2	-11-	-11-	x	x	x	x	x	-11-		



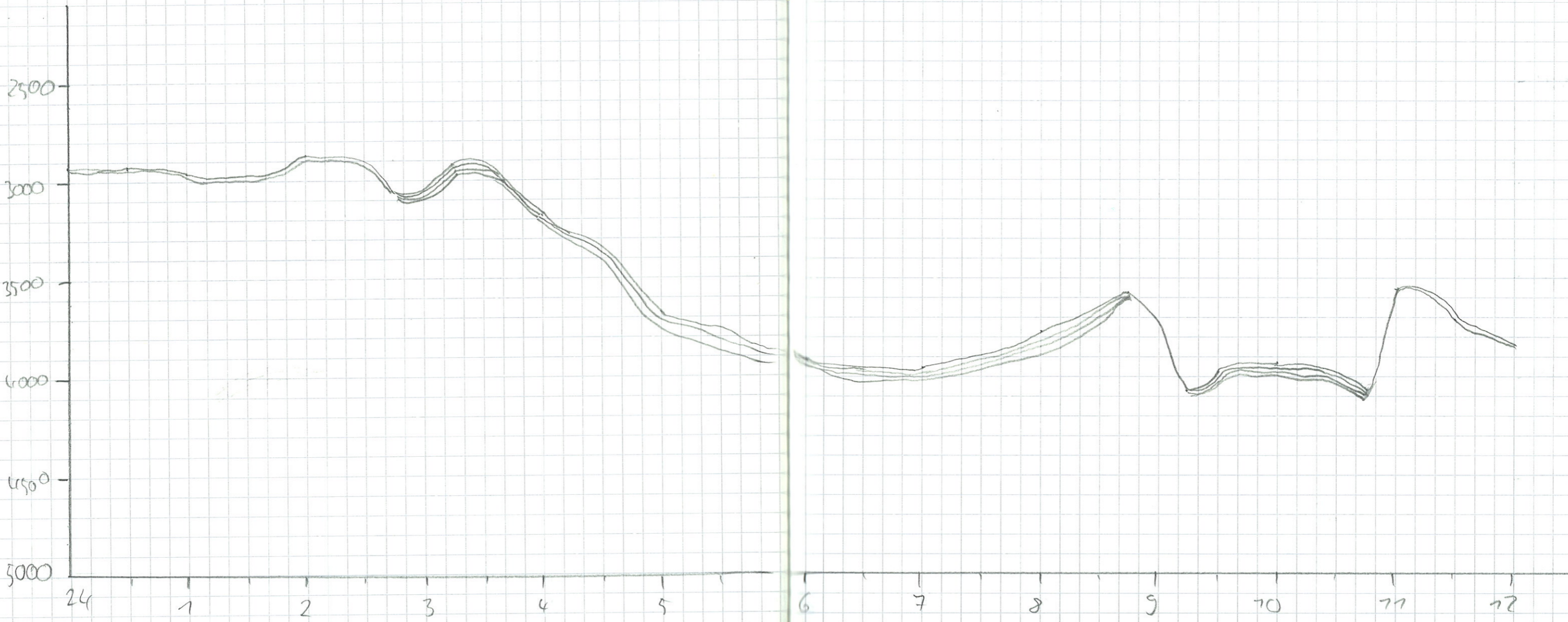
Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS
30.04.05	14:00	56° 45.470 S	43° 05.787 W	8.7	181	3751.4	3741.0
	14:30	56° 49.037 S	43° 05.795 W	9.5	180	3759.8	3762.0
	15:00	56° 53.698 S	43° 05.798 W	9.2	174	3736.6	3753.0
	15:30	56° 58.210 S	43° 05.797 W	9.4	180	3758	3757
	16:00	57° 02.027 S	43° 05.787 W	9.7	182	3721	3703
	16:30	57° 05.707 S	43° 05.832 W	9.8	174	3797	3773
	17:00	57° 08.642 S	43° 05.792 W	9.8	180	3830	3844
	17:30	57° 13.383 S	43° 05.823 W	9.9	179	3899.3	3209
	18:00	57° 18.142 S	43° 05.880 W	9.9	182	3235	3248
	18:30	57° 20.840 S	43° 05.954 W	10.4	54	3199	3198
	19:00	57° 28.63 S	43° 59.264 W	5.7	56	3387	3397
	19:30	57° 28.785 S	42° 55.433 W	8.0	246	3434	3443
	20:00	57° 20.197 S	43° 27.7 W	8.5	252	3217	3231
	20:30	57° 28.607 S	43° 58.71 W	9.8	778	3255	3265
	21:00	57° 28.392 S	43° 58.11 W	9.3	776	3255	3263
	21:30	57° 33.370 S	43° 59.22 W	9.7	781	3327	3337
	22:00	57° 38.747 S	43° 6.720 W	9.7	780	3357	3377
	22:30	57° 43.09 S	43° 6.370 W	9.9	782	3086	3096
23:00	57° 48.02 S	43° 6.507 W	10.0	779	3076	3037	
1.05.05	23:30	57° 53.004 S	43° 06.417 W	10.5	166	2985	2993
	24:00	57° 58.074 S	43° 05.897 W	10.0	184.6	2932	2942
	24:30	58° 03.039 S	43° 05.792 W	10.3	180	2942.8	2943
	1:00	58° 08.049 S	43° 05.812 W	10.4	176.9	2975.8	2982.0
	1:30	58° 13.114 S	43° 05.808 W	10.2	182	2968.5	4083.0

Freq.	Pat.	D. Range	Sensor Operat. Modus	AUX	NBS	PAR	PAR PSS	Met	Pulse Train Length	Watch Keeper	Remarks
4	2	5000	PAR-Pilot	x	x	x	x	x	Min.	Geoponics	
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-	D L	
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-	Linnatic	
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-	Geoponics	
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-		
4	2	-11-	-11-	x	x	x	x	x	-11-		

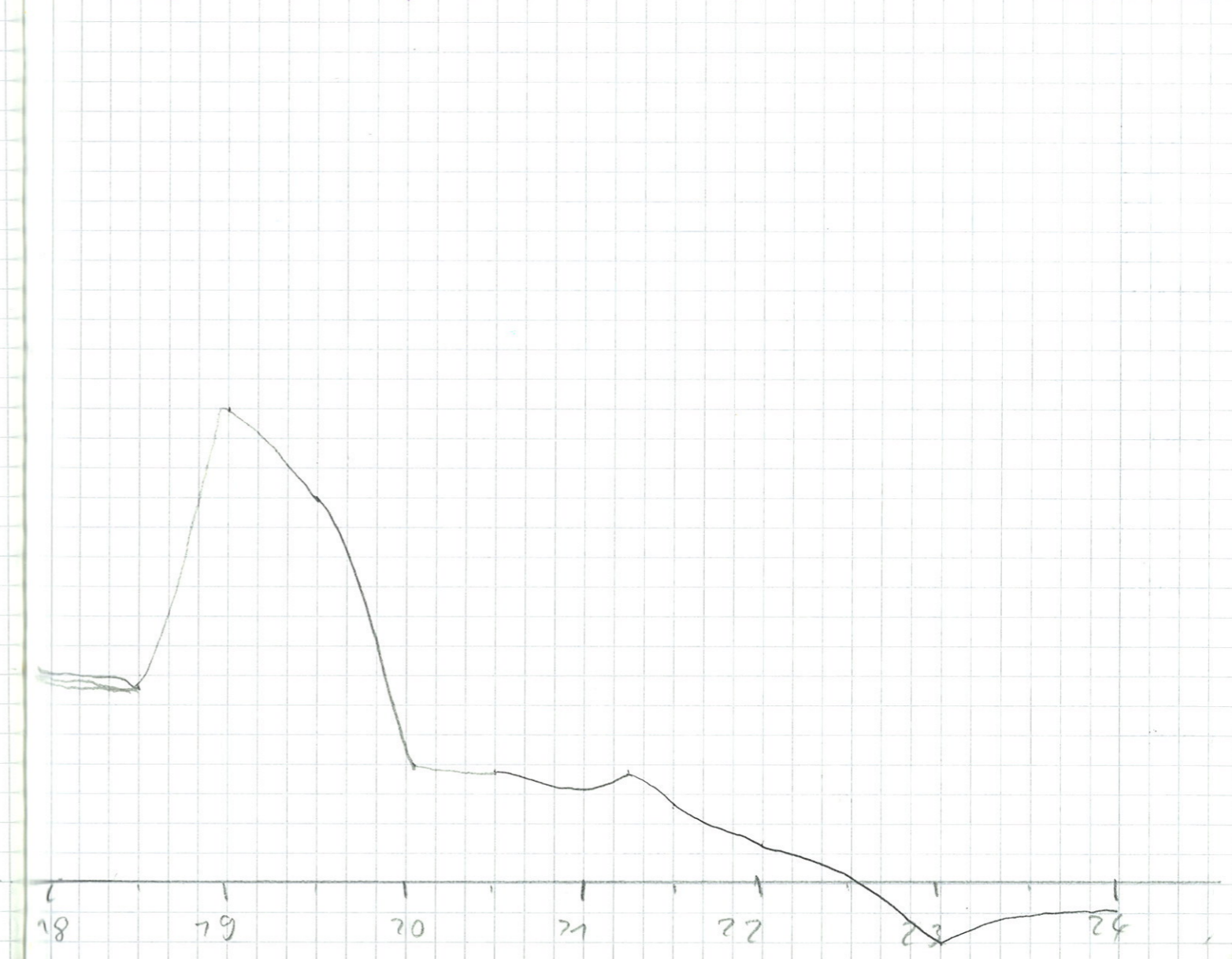
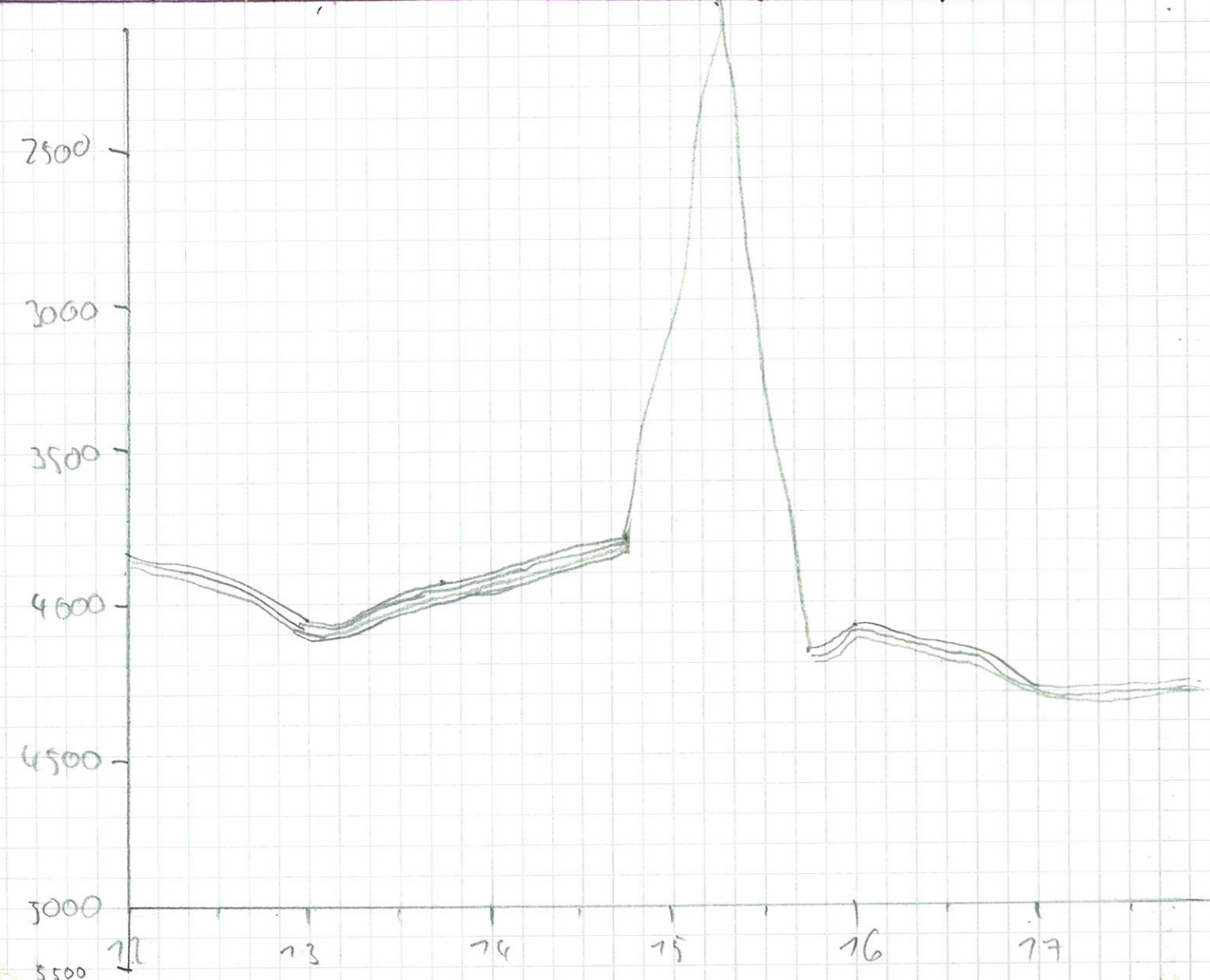
16:25 Slump in background
16:42 signal. ending?



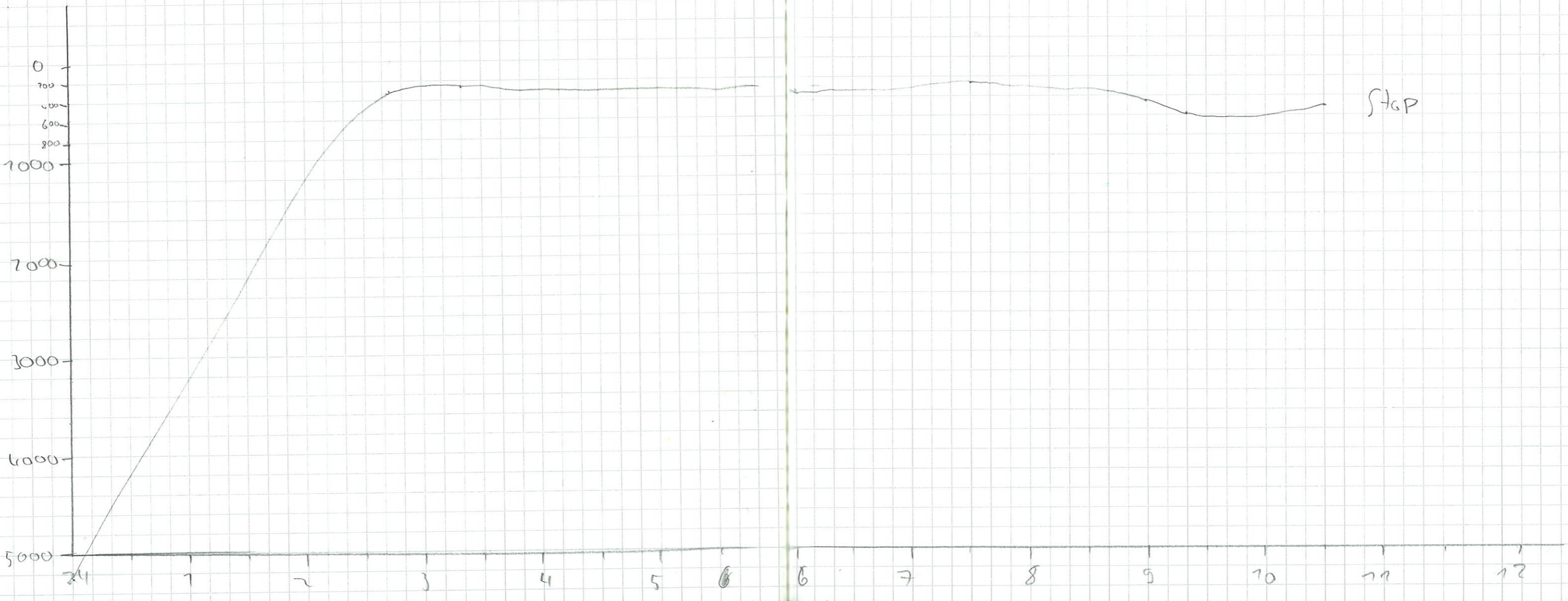
Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Temp	Pulse	D. Range	Sensor Operat. Modus	AUX	MBS	PAR PSS	PAR	Mets	Pulse Transmitt. Weight	Watch keeper	Remarks
11.05.05	21:00	57° 18.552 S	47° 05.788 W	10.3	184	2881	2841	4	2	5000	PID2-P161	X	X	X	X	X	-4-		
	2:30	58° 23.348 S	43° 05.807 W	10.6	180.5	2955	2951	+	+	+	+	X	X	X	X	X	-1-	Gregorovic	
	3:00	58° 28.618 S	43° 05.496 W	10.2	171.4	2955.4	2969	+	+	+	+	X	X	X	X	X	-1-		
	3:30																		
	4:00																		
	4:30																		
	5:00	58° 45.582 S	42° 45.689 W	10.1	142	3670	3684	4	2	-1-		X	X	X	X	X	-4-		
	5:30	58° 49.521 S	42° 39.673 W	10.5	135	3794	3808	4	2	-1-		X	X	X	X	X	-4-		
	6:00	58° 53.522 S	42° 33.649 W	10.4	142	3895	3911	4	2	-1-		X	X	X	X	X	-4-		
	6:30	58° 57.521 S	42° 27.249 W	10.7	144	3951	3966	4	2	-1-		X	X	X	X	X	-4-		
	7:00	58° 58.006 S	42° 18.774 W	9.9	83	3932	3946	4	2	-1-		X	X	X	X	X	-4-		
	7:30	58° 58.001 S	42° 8.769 W	9.9	89	3870	3892	4	2	-1-		X	X	X	X	X	-4-		
	8:00	58° 58.327 S	41° 59.448 W	10.0	147	3766	3780	4	2	-1-		X	X	X	X	X	-4-		
	8:30	59° 2.279 S	41° 53.159 W	10.3	139	3683	3705	4	2	-1-		X	X	X	X	X	-4-		
	9:00	59° 6.082 S	41° 46.955 W	9.8	136	3821	3826	4	2	-1-		X	X	X	X	X	-4-		
	9:30	59° 9.862 S	41° 40.862 W	10.3	140	3989	4010	4	2	-1-		X	X	X	X	X	-4-		
	10:00	59° 9.268 S	41° 34.387 W	8.5	52	3964	3987	4	2	-1-		X	X	X	X	X	-4-		
	10:30	59° 6.194 S	41° 36.717 W	8.1	327	4079	4077	4	2	-1-		X	X	X	X	X	-4-		
	11:00	59° 03.085 S	41° 41.032 W	8.4	824	3541	3569	4	2	-1-	-1-	X	X	X	X	X	-1-		
	11:30	59° 01.949 S	41° 44.955 W	9.9	176	3582	3584	4	2	-1-	-1-	X	X	X	X	X	-1-		
	12:00	59° 06.388 S	41° 47.911 W	10.0	227	3821.2	3808	4	2	-1-	-1-	X	X	X	X	X	-1-		
	12:30	59° 09.944 S	41° 54.492 W	10.4	221.9	4073.5	4076	4	2	-1-	-1-	X	X	X	X	X	-1-		
	13:00	59° 13.650 S	42° 01.390 W	10.2	221.5	4047.9	4070	4	2	-1-	-1-	X	X	X	X	X	-1-		
	13:30	59° 17.180 S	42° 08.013 W	9.9	223	4022.4	4081	4	2	-1-	-1-	X	X	X	X	X	-1-		



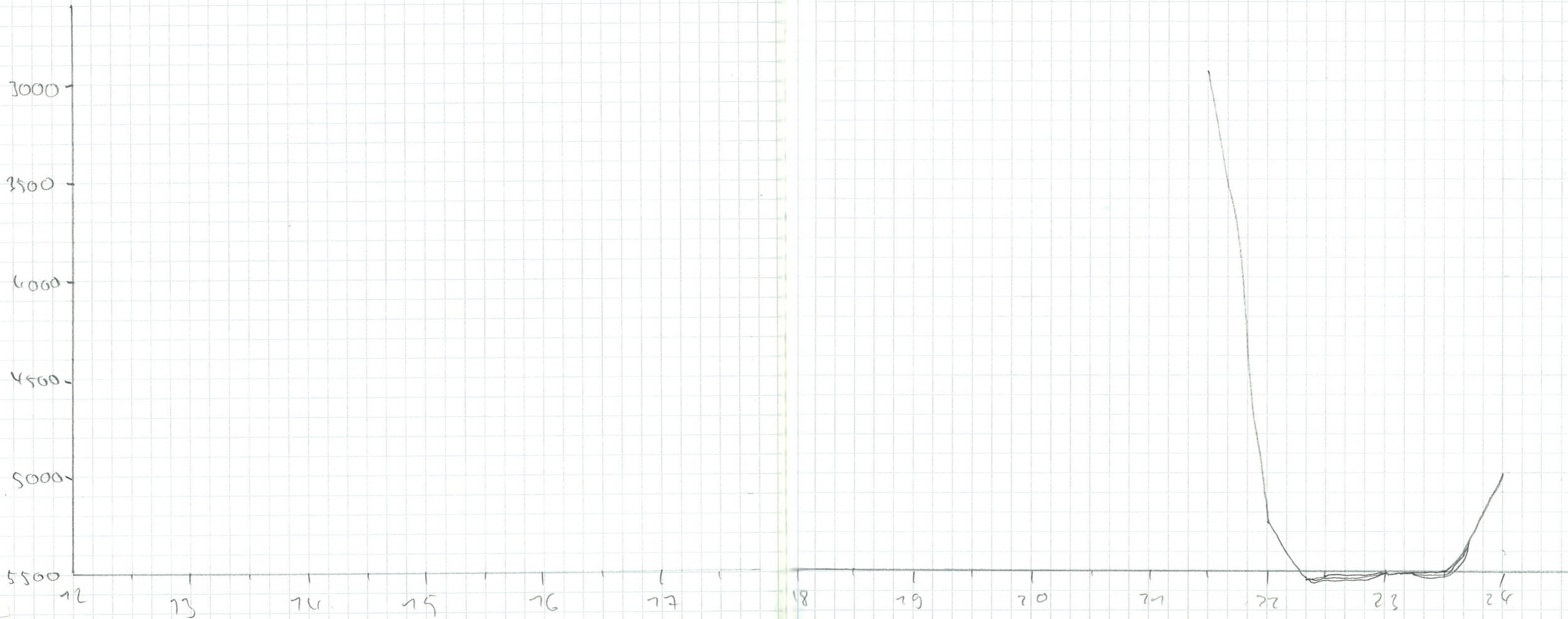
Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D. Range	Sensor Operat. Modus	AMX	ORBS	PAR	PAR PSS	Meta	Pulse Train Length	Watch Keeper	Remarks
1.06.05	14:00	59° 20.714	S 42° 14.626	W 9.2	223	3855.8	3872.0	4	2	5000	Par-Pilot	x	x	x	x	x	Min	Gregorowicz	
	14:30	59° 28.063	S 42° 22.129	W 9.1	2546	3869	3883	4	2	"	"	x	x	x	x	x	"		
	15:00	59° 24.604	S 42° 30.047	W 9.2	247	26294	2537.0	4	2	"	"	x	x	x	x	x	"		
	15:30	59° 26.44	S 42° 37.708	W 9.0	265	3603	3823	4	2	"	"	x	x	x	x	x	"		
	16:00	59° 27.231	S 42° 45.714	W 9.1	251	4076	4089	4	2	"	"	x	x	x	x	x	"		
	16:30	59° 30.156	S 42° 52.714	W 8.9	233	4212	4233	4	2	"	"	x	x	x	x	x	"		
	17:00	59° 32.331	S 43° 0.299	W 8.5	240	4299	4286	4	2	"	"	x	x	x	x	x	"		
	17:30	59° 33.612	S 43° 8.36	W 8.7	256	4280	4297	4	2	"	"	x	x	x	x	x	"		
	18:00	59° 35.781	S 43° 15.978	W 8.9	232	4292	4306	4	2	"	"	x	x	x	x	x	"		
	18:30	59° 37.928	S 43° 23.644	W 8.9	239	4342	4359	4	2	"	"	x	x	x	x	x	"		
	19:00	59° 40.070	S 43° 31.36	W 8.6	244	3409	3607	4	2	"	"	x	x	x	x	x	"		
	19:30	59° 42.227	S 43° 39.42	W 9.1	238	5719	3779	4	2	"	"	x	x	x	x	x	"		
	20:00	59° 46.078	S 43° 47.83	W 10.2	177	4577	4554	4	2	"	"	x	x	x	x	x	"		
	20:30	59° 50.651	S 43° 41.57	W 8.1	175	4631	4666	4	2	"	"	x	x	x	x	x	"		
	21:00	59° 55.221	S 43° 41.57	W 8.5	185	4750	4757	4	2	"	"	x	x	x	x	x	"		
	21:30	59° 59.805	S 43° 42.615	W 10.1	183	4759	4769	4	2	7000	"	x	x	x	x	x	Mod.		
	22:00	60° 04.570	S 43° 47.286	W 9.7	176	4887	4898	4	2	7000	"	x	x	x	x	x	Mod.		
	22:30	60° 09.088	S 43° 42.26	W 9.8	175	5099	5079	4	2	7000	"	x	x	x	x	x	Mod.		
	23:00	60° 13.707	S 43° 47.36	W 8.7	181	5535	5542	4	2	"	"	x	x	x	x	x	"		
	23:30	60° 18.354	S 43° 42.449	W 9.9	183.5	5551	5533	4	2	"	"	x	x	x	x	x	"		
	2.05.05	24:00	60° 23.400	S 43° 41.858	W 7.6	108	5316.7	5130	4	2	"	"	x	x	x	x	x		"
24:30		60° 27.509	S 43° 41.654	W 8.6	186	3362.5	3316.0	4	2	5000	"	x	x	x	x	x	Min		
1:00		60° 31.589	S 43° 40.090	W 8.5	163	2667.7	2640	4	2	"	"	x	x	x	x	x	"		
1:30		60° 35.734	S 43° 40.969	W 8.4	186	1487	1494	4	2	2000	NB-PAR	x	x	x	x	x	"		



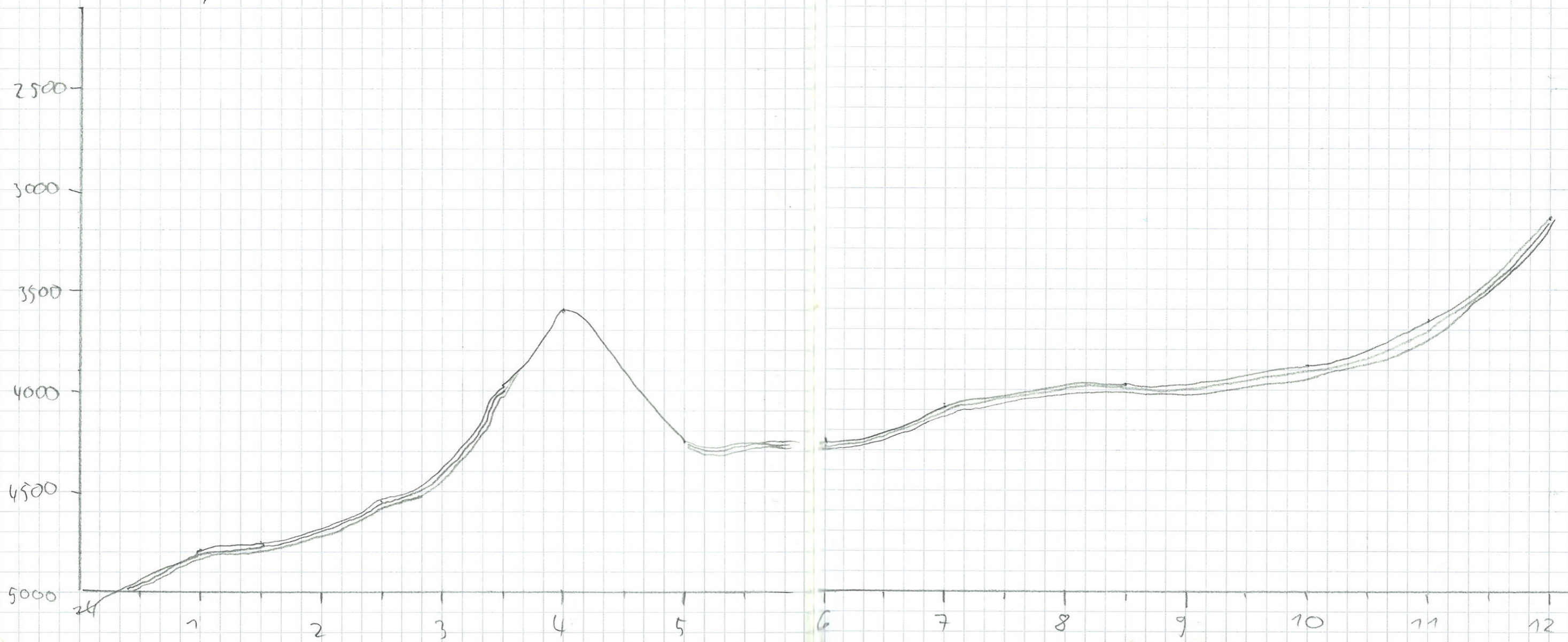
88 Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D. Range	Sensor Operat. modulus	AUX	NBS	PAR	PAP PSS	Metds	Probe Temp. Height	Watch keeper	Remarks	89
2.05.05	2:00	60° 39.326 S	42° 40.951 W	7.1	173	1084.0	1025.7	4	2	2000	NBS-Par	x	x	x	x	x	Min	Gyrometer		
	2:30	60° 43.076 S	43° 40.656 W	6.5	176	326.4	326.4	4	2	500	PAR	v	x	x	x	x	Min			
	3:00	60° 45.718 S	43° 41.311 W	5.6	200	272	270	4	2	500	-	x	x	x	x	x	-			
	3:30	60° 48.010 S	43° 42.827 W	4.7	193	200252	252	4	2	500	-	x	x	x	x	x	-			
	4:00	60° 49.750 S	43° 43.946 W	3.7	195	238	238	4	2	500	-	x	x	x	x	x	-			
	4:30	60° 49.770 S	43° 47.820 W	5.2	285	270	270	4	2	500	-	x	x	x	x	x	-			
	5:00	60° 48.243 S	43° 50.802 W	8.3	270	221	221	4	2	500	-	x	x	x	x	x	-			
	5:30	60° 44.921 S	43° 46.664 W	8.0	26.8	256	256	4	2	500	-	x	x	x	x	x	-			
	6:00	60° 42.771 S	43° 41.611 W	3.6	150	11.5	600	4	2	500	-	x	x	x	x	x	-			
	6:30	60° 44.679 S	43° 41.207 W	3.2	197	5166	633	4	2	500	-	x	x	x	x	x	-			
	7:00	60° 45.876 S	43° 42.358 W	2.5	273	261	610	4	2	500	-	x	x	x	x	x	-			
	7:30	60° 46.671 S	43° 44.411 W	3.4	258	257	255	4	2	500	-	x	x	x	x	x	-			
	8:00	60° 46.277 S	43° 46.345 W	3.6	142	532	245	4	2	5	-	x	x	x	x	x	5			
	8:30	60° 43.643 S	43° 45.068 W	5.8	4.7	455	240	4	2	5	-	x	x	x	x	x	5			
	9:00	60° 40.988 S	43° 44.700 W	7.0	62	440	442	4	2	5	-	x	x	x	x	x	5			
	9:30	60° 41.307 S	43° 38.999 W	4.8	727	614	617	4	2	5	-	x	x	x	x	x	5			
	10:00	60° 42.777 S	43° 36.306 W	4.5	710	570	519	4	2	5	-	x	x	x	x	x	5			
	10:30	60° 43.706 S	43° 32.882 W	3.5	778	460	332	4	2	5	-	x	x	x	x	x	5			
	11:00							4	2	5	-	x	x	x	x	x	5			
	11:30		UTC 10:45																	
	12:00		Pano sound stop																	
	12:30																			
	13:00																			
	13:50																			



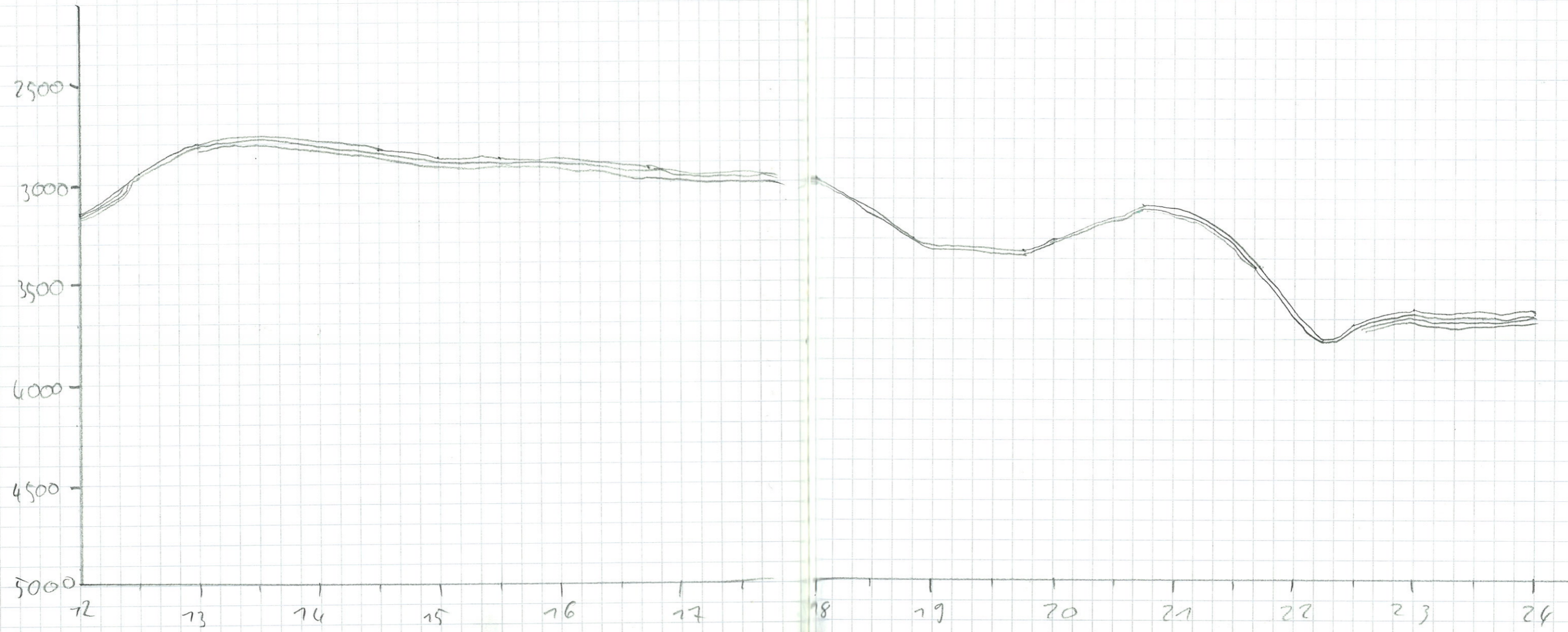
90	Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D. Range	Sensor Operat. Modus	AUX	MBS	PAR PSS	PAR	Mets	Pulse Transmitt. Length	Watch keeper	Remarks	91
	2.05.05	14:00																			
		14:30																			
		15:00																			
		15:30																			
		16:00																			
		16:30																			
		17:00																			
		17:30																			
		18:00																			
		18:30																			
		19:00																			
		19:30																			
		20:00																			
		20:30																			
		21:00																			
		21:30	60° 28.493 S	43° 39.562 W	9.5	47	2964	2976	4	2	15000	PAR-Pilot	x	x	x	x	x	Mini			
		22:00	60° 26.034 S	43° 35.577 W	9.2	368	5256	5209	4	2	5000	PAR-Pilot	x	x	x	x	x	Mini			
		22:30	60° 20.796 S	43° 44.707 W	8.0	314	5529	5544	4	2	5000	"	x	x	x	x	x	Mini	Erstli		
		23:00	60° 18.879 S	43° 51.568 W	8.0	326	5503	5516	4	2	5	"	x	x	x	x	x	"			
		23:30	60° 14.824 S	43° 54.571 W	8.0	355	5512.7	5534	4	2	7000	7m-	x	x	x	x	x	Mod.			
	3.05.05	24:00	60° 10.599 S	43° 54.842 W	8.2	35	5113.0	5113	4	2	4	4-	x	x	x	x	x	4-		Geoponora	
		24:30	60° 06.246 S	43° 54.914 W	9.3	0.7	4783.0	4766.2	4	2	7000	4-	x	x	x	x	x	Mod.			
		1:00	60° 02.940 S	43° 54.554 W	8.6	6.7	4823.0	4804.7	4	2	11-	4-	x	x	x	x	x	4-			
		1:30	59° 57.628 S	43° 54.585 W	8.4	357	4775.0	4753.0	4	2	11-	4-	x	x	x	x	x	4-			



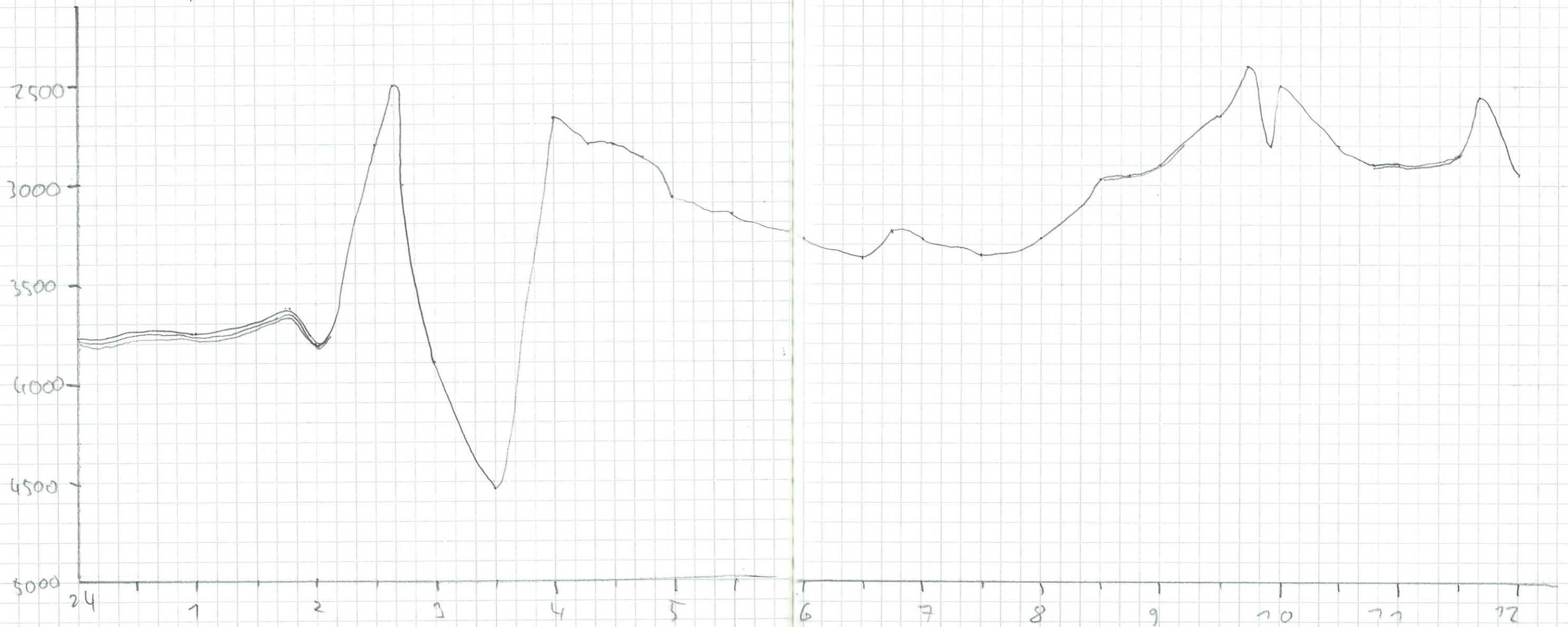
92 Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth RS	Temp.	Pulse	D. Range	Memory operation. McDavis	AWK	NBS	PAR	PAR PSS	Metd	Pulse Frequency Length	Watch Keeper	Remarks	93
3.05.05	2:00	59° 53.233 S	43° 52.742 W	8.9	20.8	4664	4680	4	2	5000	Per Pilot	x	x	x	x	x	Mix	Gygonarite		
	2:30	59° 48.772 S	43° 52.020 W	9.1	12.9	4547.3	4565.0	4	2	5000	41	x	x	x	x	x	-11-			
	3:00	59° 44.723 S	43° 51.411 W	9.3	7.3	4218.4	4242.0	-11-	-11-	-11-	-11-	x	x	x	x	x	-11-			
	3:30	59° 40.729 S	43° 49.503 W	10.2	48.1	3996	3973	4	2	-11-	-11-	x	x	x	x	x	-11-			
	4:00	59° 38.113 S	43° 40.822 W	9.5	52	3271	3330	4	2	-11-	-11-	x	x	x	x	x	-11-			
	4:30	59° 35.668 S	43° 32.766 W	9.7	65	3908	3923	4	2	-11-	-11-	x	x	x	x	x	-11-			
	5:00	59° 33.399 S	43° 24.176 W	8.4	83	4260	4268	4	2	-11-	-11-	x	x	x	x	x	-11-			
	5:30	59° 31.218 S	43° 16.001 W	9.7	60	4245	4252	4	2	-11-	-11-	x	x	x	x	x	-11-			
	6:00	59° 29.874 S	43° 7.829 W	8.6	64	4227	4248	4	2	-11-	-11-	x	x	x	x	x	-11-			
	6:30	59° 27.050 S	43° 0.405 W	8.7	33	4156	4177	4	2	-11-	-11-	x	x	x	x	x	-11-			
	7:00																			
	7:30	58° 18.280 S	43° 0.555 W	8.7	358	4050	4065	4	2	-11-	-11-	x	x	x	x	x	-11-			
	8:00	59° 13.571 S	43° 0.878 W	9.0	79	4016	4035	4	2	7	7	x	x	x	x	x	5			
	8:30	59° 9.854 S	43° 0.272 W	9.3	2.9	3783	3794	4	2	7	7	x	x	x	x	x	5			
	9:00	59° 5.459 S	43° 0.290 W	8.6	2.6	3937	3945	4	2	7	7	x	x	x	x	x	5			
	9:30	59° 1.172 S	43° 0.293 W	8.8	5.4	3920	3936	4	2	7	7	x	x	x	x	x	5			
	10:00	58° 56.709 S	43° 0.283 W	9.7	349	3885	3907	4	2	5	5	x	x	x	x	x	5			
	10:30	58° 52.157 S	43° 0.195 W	8.7	352	3815	3824	4	2	5	5	x	x	x	x	x	5			
	11:00	58° 47.608 S	43° 0.275 W	8.2	354	3637	3673	4	2	5	5	x	x	x	x	x	5			
	11:30	58° 42.929 S	43° 0.295 W	10.3	1.4	3358.7	3382.0	4	2	-11-	-11-	x	x	x	x	x	-11-			
12:00	58° 38.186 S	43° 0.303 W	9.3	2.1	3073.5	3122.0	4	2	-11-	-11-	x	x	x	x	x	-11-				
12:30	58° 33.490 S	43° 0.290 W	9.4	358	2961.0	2969	4	2	-11-	-11-	x	x	x	x	x	-11-				
13:00	58° 28.776 S	43° 0.298 W	9.7	4.5	2828.5	2828	4	2	-11-	-11-	x	x	x	x	x	-11-				
13:30	58° 23.879 S	43° 0.295 W	5.6	357	2804.2	2816.0	4	2	-11-	-11-	x	x	x	x	x	-11-				



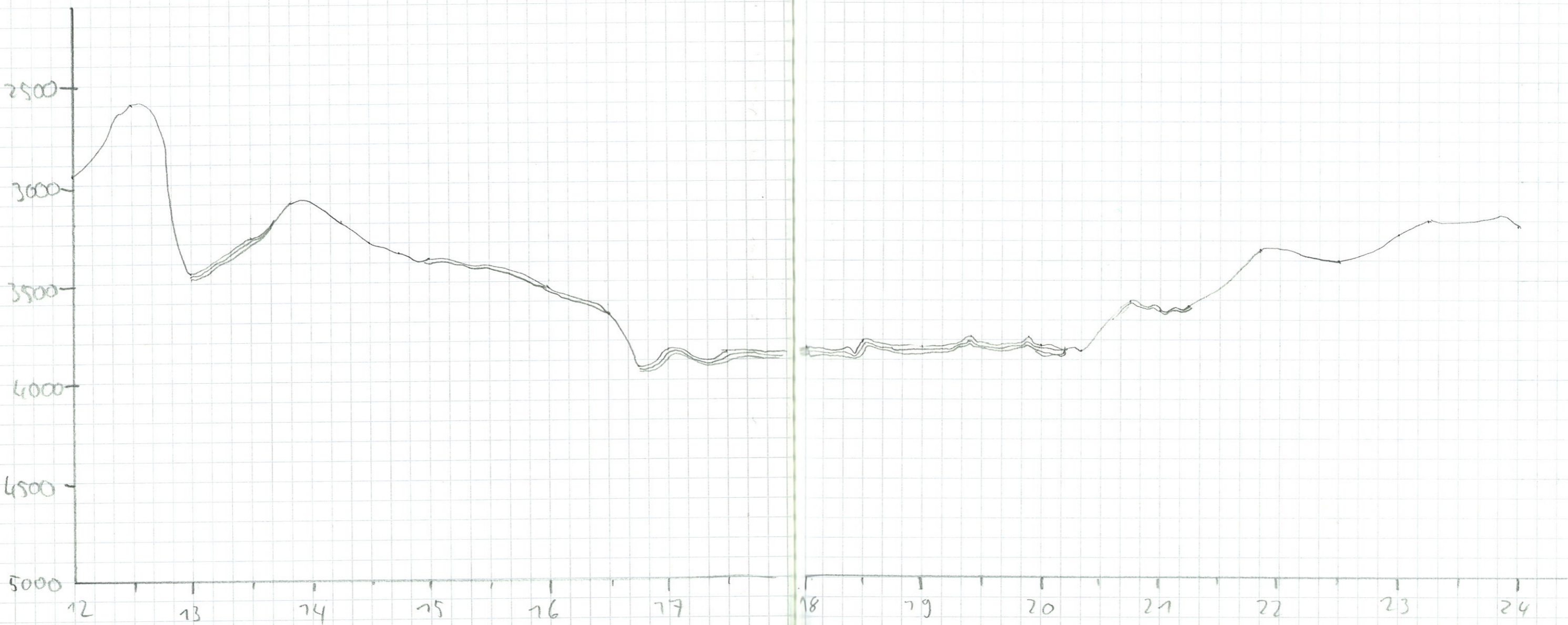
Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D-Range	Sensor op. mod.	Aux	NBS	PAR PSS	PAR PSS	Rela	Pulse to length	Water temp	Remarks			
03.05.05	14:00	58° 19.109	S 43° 00.301	W 9.8	358	2827.1	2833.0	4	2	-	-	x	x	x	x	x	-	Gigamon				
	14:30	58° 14.445	S 43° 00.307	W 9.4	358	2843.6	2846	4	2	-	-	x	x	x	x	x	-					
	15:00	58° 03.812	S 43° 00.283	W 9.2	31	2872	2864	4	2	-	-	x	x	x	x	x	-					
	15:30	57° 56.517	S 43° 00.215	W 9.3	4,1	2895	2886	4	2	-	-	x	x	x	x	x	-					
	16:00	58° 01.126	S 43° 00.282	W 8.0	1,3	2866	2876	4	2	-	-	x	x	x	x	x	-					
	16:30	58° 05.177	S 42° 00.250	W 9.2	358	2886	2878	4	2	-	-	x	x	x	x	x	-					
	17:00	Klein		Dau																	Do	16.55 Time out failure → kein wasser Parasound Sensor nicht 19:00 Parasound Reicht ohne HS-Tiefe (abgeschaltet)
	17:30	57° 49.061	S 43° 00.277	W 8.4	3,6	2964	2953	4	2	-	-	x	x	x	x	x	-					
	18:00	57° 44.535	S 43° 00.312	W 9.0	3,8	3005	-	4	2	-	-	x	x	x	x	x	-					
	18:30	57° 38.930	S 43° 00.30	W 9.6	5,7	3397	-	4	2	-	-	x	x	x	x	x	-					
	19:00	57° 35.420	S 43° 01.000	W 7.7	257	3308	-	4	2	-	-	x	x	x	x	x	-					
	19:30	57° 33.500	S 43° 00.290	W 8.6	5.5	3289	3303	4	2	-	-	x	x	x	x	x	-	Einfach				
	20:00	57° 29.364	S 43° 00.286	W 8.3	356	3310	3328	4	2	-	-	x	x	x	x	x	-					
	20:30	57° 25.315	S 43° 00.308	W 7.2	7.1	3149	3157	4	2	-	-	x	x	x	x	x	-					
	21:00	57° 21.295	S 43° 00.298	W 8.6	355	3237	3245	4	2	-	-	x	x	x	x	x	-					
	21:30	57° 17.233	S 43° 00.284	W 9.2	203	3474	3423	4	2	-	-	x	x	x	x	x	-					
	22:00	57° 13.195	S 43° 00.302	W 8.4	359	3629	3654	4	2	-	-	x	x	x	x	x	-					
	22:30	57° 9.142	S 43° 00.308	W 8.9	359	3700	3722	4	2	-	-	x	x	x	x	x	-					
	23:00	57° 4.905	S 43° 00.285	W 8.8	356	3652	3646	4	2	-	-	x	x	x	x	x	-					
	23:30	57° 0.544	S 43° 00.282	W 8.4	354.5	3799.4	3817.0	4	2	-	-	x	x	x	x	x	-					
24:00	57° 0.298	S 43° 00.300	W 8.0	352	3797	3794	4	2	-	-	x	x	x	x	x	-						
04.05.05	01:00	56° 52.103	S 43° 00.289	W 7.8	357	3775.7	3779	4	2	-	-	x	x	x	x	x	-	Gigamon				
	1:00	56° 47.961	S 43° 00.280	W 8.9	0.9	3750	3759	4	2	-	-	x	x	x	x	x	-					
	1:30	56° 43.986	S 43° 00.275	W 8.2	359	3721	3726	4	2	-	-	x	x	x	x	x	-					



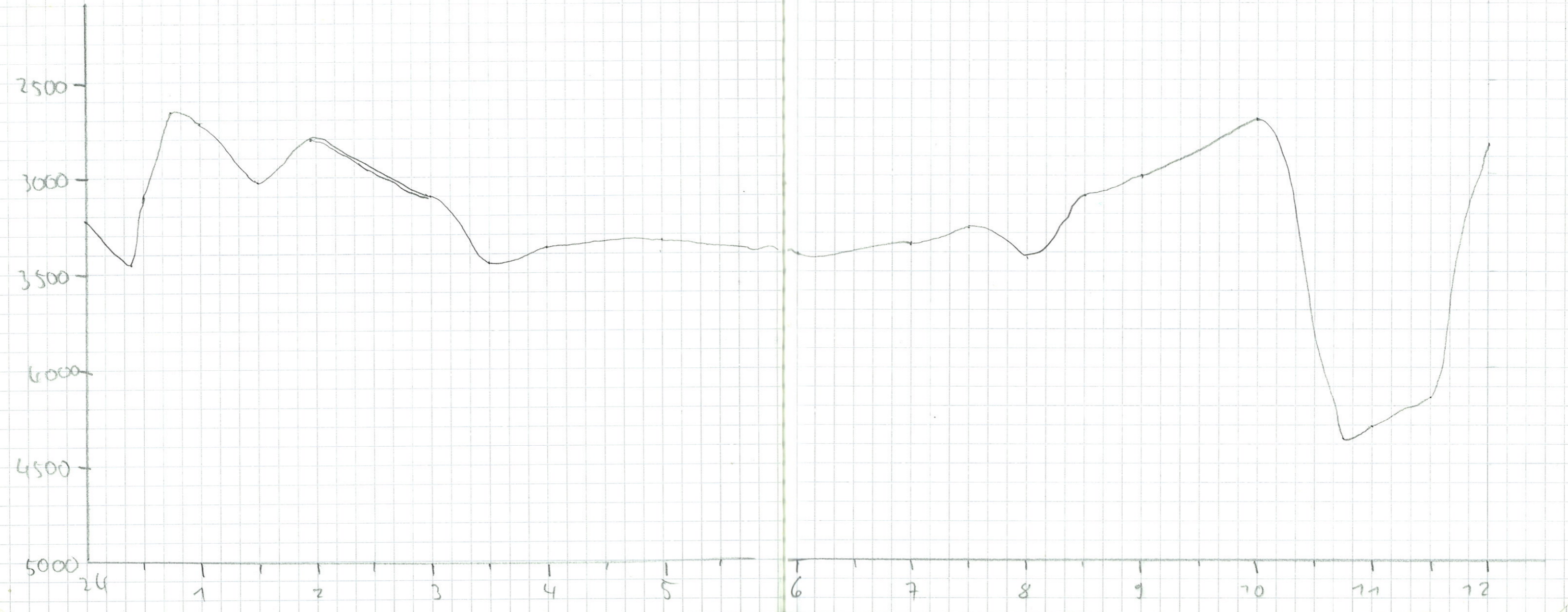
Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D. Range	Temp. Operat. Modes	AUX	NBS	PAR	PAR PSS	meta	Pulse length	Wetch keeper	Remarks
04.05.05	2:00	56° 39.904 S	43° 0.289 W	8.8	360	3800	3810	4	2	-11-	-11-	x	x	x	x	x	-11-		
	2:30	56° 35.635 S	43° 0.287 W	8.6	510	2766	2785	-11-	-11-	-11-	-11-	x	x	x	x	x	-11-	Gregoronia	
	3:00	56° 31.801 S	43° 0.290 W	9.4	357	3994	3989	-11-	-11-	-11-	-11-	x	x	x	x	x	-11-		
	3:30																		
	4:00	56° 22.003 S	43° 0.300 W	9.3	19	2674	2679	-11-	-11-	-11-	-11-	x	x	x	x	x	-11-		
	4:30	56° 17.361 S	43° 0.286 W	9.4	256	2800	2820	-11-	-11-	-11-	-11-	x	x	x	x	x	-11-		
	5:00	56° 12.559 S	43° 0.293 W	9.1	256	3102	3119	-11-	-11-	-11-	-11-	x	x	x	x	x	-11-		
	5:30	56° 8.007 S	43° 0.284 W	9.1	359	3167	3174	-11-	-11-	-11-	-11-	x	x	x	x	x	-11-		
	6:00	56° 3.896 S	43° 0.273 W	8.3	357	3288	3298	-11-	-11-	-11-	-11-	x	x	x	x	x	-11-		
	6:30	55° 59.500 S	43° 0.303 W	9.1	357	3346	3363	4	2	4	4	x	x	x	x	x	-11-		
	7:00	55° 55.714 S	43° 0.267 W	9.0	70	3262	3272	4	2	5	5	x	x	x	x	x	-11-		
	7:30	55° 50.806 S	43° 0.294 W	8.9	358	3336	3364	4	2	5	5	x	x	x	x	x	-11-		
	8:00	55° 46.423 S	43° 0.298 W	8.7	348	3277	3285	-	2	4	4	x	x	x	x	x	-11-		
	8:30	55° 42.211 S	43° 0.290 W	8.4	7.1	2958	2978	4	2	3	3	x	x	x	x	x	-11-		
	9:00	55° 37.975 S	43° 0.300 W	8.4	355	2899	2911	4	2	3	3	x	x	x	x	x	-11-		
	9:30	55° 33.717 S	43° 0.284 W	8.3	359	2647	2661	4	2	3	3	x	x	x	x	x	-11-		
	10:00	55° 34.059 S	43° 2.655 W	8.4	288	2474	2473	4	2	3	3	x	x	x	x	x	-11-		
	10:30	55° 38.496 S	43° 2.497 W	8.5	287	2734	2823	4	2	3	3	x	x	x	x	x	-11-		
	11:00	55° 37.514 S	42° 57.995 W	8.9	0.3	2894	2881.7	4	2	3	3	x	x	x	x	x	-11-		
	11:30	55° 33.380 S	42° 58.278 W	6.7	298	2851	2842.1	4	2	-11-	-11-	x	x	x	x	x	-11-		
	12:00	55° 30.207 S	43° 0.321 W	8.6	353	2935	2945	4	2	-11-	-11-	x	x	x	x	x	-11-		
	12:30	55° 25.893 S	43° 0.296 W	8.7	2.4	2579	2604	4	2	-11-	-11-	x	x	x	x	x	-11-		
	13:00	55° 21.344 S	43° 0.287 W	9.4	5.2	3436.8	3450	4	2	-11-	-11-	x	x	x	x	x	-11-		
	13:30	55° 17.194 S	43° 0.310 W	8.6	0.1	3281.4	3295	4	2	-11-	-11-	x	x	x	x	x	-11-		



98 Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Aug.	Pulse	D. Range	Sensor operat. Modus	AUX	MBS	PAR	PAR PSS	Metd	Pulse Trans length	Watch keeper	Remarks	
04.05.05	14:00	55° 12.607 S	43° 0.285 W	9.0	349	3078.9	3118.0	4	2	5000	Par-Pilot	x	x	x	x	x	M/n.			
	14:30	55° 08.037 S	43° 0.285 W	9.2	353.6	3297	3309	4	2	-11-	-11-	x	x	x	x	x	-11-	Gregoraiter		
	15:00	55° 03.390 S	43° 0.298 W	9.0	358	3386	3395	4	2	-11-	-11-	x	x	x	x	x	-11-			
	15:30	54° 58.584 S	43° 0.297 W	9.1	350	3393	3405	4	2	-11-	-11-	x	x	x	x	x	-11-			
	16:00	54° 53.809 S	43° 0.292 W	9.0	0.6	3528	3670 354	4	2	-11-	-11-	x	x	x	x	x	-11-			
	16:30	54° 49.054 S	43° 0.293 W	9.1	3.5	3669	3676	4	2	-11-	-11-	x	x	x	x	x	-11-			
	17:00	54° 44.248 S	43° 0.295 W	10.2	2.8	3851	3869	4	2	-11-	-11-	x	x	x	x	x	-11-			
	17:30	54° 38.327 S	43° 0.331 W	9.6	1.8	3854	3866	4	2	-11-	-11-	x	x	x	x	x	-11-			
	18:00	54° 33.298 S	42° 57.043 W	6.0	206	3818	3833	4	2	-11-	-11-	x	x	x	x	x	-11-			
	18:30	54° 28.135 S	43° 0.841 W	7.5	319	3806	3821	4	2	5	5	x	x	x	x	x	5			
	19:00	54° 23.631 S	43° 2.867 W	6.2	116	3839	3856	4	2	5	5	x	x	x	x	x	5			
	19:30	54° 18.023 S	43° 59.663 W	6.6	77	3820	3838	4	2	5	5	x	x	x	x	x	5			
	20:00	54° 13.033 S	42° 55.063 W	8.8	760	3838	3868	4	2	5	5	x	x	x	x	x	5			
	20:30	54° 8.587 S	42° 55.005 W	9.1	780	3832	3857	4	2	5	5	x	x	x	x	x	5			
	21:00	54° 4.168 S	42° 55.013 W	8.6	775	3635	3652	4	2	5	5	x	x	x	x	x	5			
	21:30	54° 54.808 S	42° 55.014 W	9.3	782	3502	3517	4	2	"	"	x	x	x	x	x	5			
	22:00	54° 50.383 S	42° 54.998 W	9.2	781	3348	3360	4	2	5	5	x	x	x	x	x	5			
	22:30	55° 04.013 S	42° 55.012 W	9.3	783	3421	3440	4	2	5	5	x	x	x	x	x	5			
	23:00	55° 08.766 S	42° 55.011 W	9.2	776.9	3284	3274.4	4	2	5	5	x	x	x	x	x	5			
	23:30	55° 13.459 S	42° 54.987 W	9.1	786	3255	3201	4	2	-11-	-11-	x	x	x	x	x	-11-			
	05.05.05	24:00	55° 18.046 S	42° 54.997 W	9.0	782	3243	3243	4	2	-11-	-11-	x	x	x	x	x	-11-		
		24:30	55° 22.496 S	42° 54.990 W	8.5	779	2966	3023	4	2	-11-	-11-	x	x	x	x	x	-11-		
		01:00	55° 26.869 S	42° 55.006 W	8.8	776	2732.4	2646	4	2	-11-	-11-	x	x	x	x	x	-11-		
		01:30	55° 31.033 S	42° 55.009 W	8.1	786	3032	3028	4	2	-11-	-11-	x	x	x	x	x	-11-		



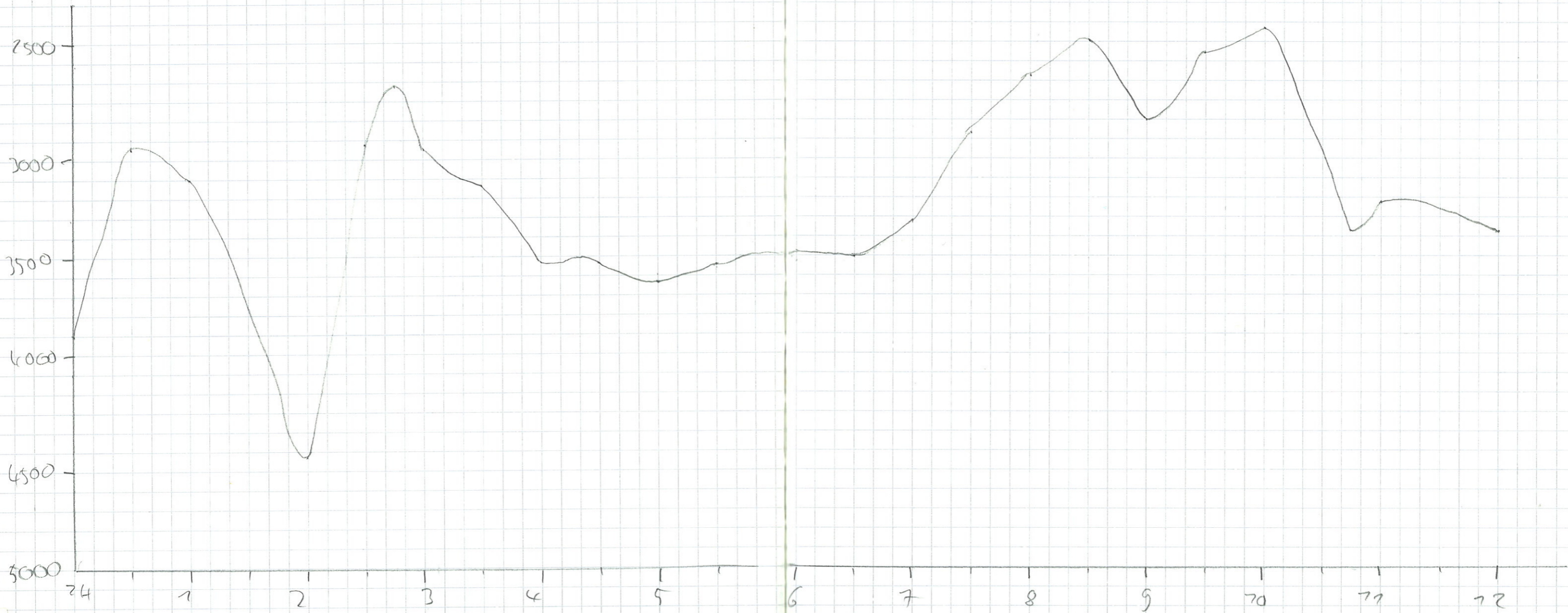
Date	Time	Lat/Long	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D. Range	sensor Operet. modus	AUX	NBS	PAR	PAR PS3	Meta	Pulse train lenght	Watch keeper	Remarks
5.05.05	2:00	55° 35.078 S 42° 55.013 W	8.2	180	2835	2839	4	2	-11-	-11-	x	x	x	x	x	1		
	2:30	55° 39.224 S 42° 55.000 W	8.2	176	2951	2963	4	2	-11-	-11-	x	x	x	x	x	1		
	3:00	55° 43.193 S 42° 54.992 W	7.4	181	3119	3127	4	2	-11-	-11-	x	x	x	x	x	1		
	3:30						4	2	-11-	-11-	x	x	x	x	x	1		
	4:00	55° 49.770 S 42° 54.960 W	5.1	159	3365	3375	4	2	-11-	-11-	x	x	x	x	x	1		
	4:30	55° 51.943 S 42° 55.094 W	4.6	186	3358	3374	4	2	-11-	-11-	x	x	x	x	x	1		
	5:00						4	2	-11-	-11-	x	x	x	x	x	1		
	5:30	55° 56.908 S 42° 54.909 W	9.4	167	3409	3426	4	2	-11-	-11-	x	x	x	x	x	1		
	6:00						4	2	5000	-	x	x	x	x	x	1		
	6:30						4	2	-	-	x	x	x	x	x	1		
	7:00	56° 3.721 S 42° 55.001 W	4.9	164	3348	3365	4	2	-	-	x	x	x	x	x	1		
	7:30	56° 6.114 S 42° 54.960 W	5.5	164	3274	3289	4	2	-	-	x	x	x	x	x	1		
	8:00	56° 8.654 S 42° 54.985 W	5.1	188	3421	3436	4	2	-	-	x	x	x	x	x	1		
	8:30	56° 11.439 S 42° 55.005 W	4.9	168	3707	3726	4	2	-	-	x	x	x	x	x	1		
	9:00	56° 14.280 S 42° 54.957 W	6.5	194	2984	3003	4	2	-	-	x	x	x	x	x	1		
	9:30	56° 17.429 S 42° 54.985 W	6.8	180	2939	2902	4	2	-	-	x	x	x	x	x	1		
	10:00	56° 20.704 S 42° 54.976 W	6.7	168	2688	2711	4	2	-	-	x	x	x	x	x	1		
	10:30	56° 24.016 S 42° 54.984 W	6.8	177	3907	3893	4	2	-	-	x	x	x	x	x	1		
	11:00	56° 27.424 S 42° 55.004 W	6.6	176	4440	4413.3	4	2	-	-	x	x	x	x	x	1		
	11:30	56° 31.257 S 42° 55.021 W	8.6	174	4144	4163	4	2	-	-	x	x	x	x	x	1		
	12:00	56° 35.157 S 42° 54.986 W	7.8	172	2870	2895	4	2	-	-	x	x	x	x	x	1		
	12:30	56° 38.420 S 42° 54.997 W	4.3	175	3580	3729	4	2	-	-	x	x	x	x	x	1		
	13:00	56° 43.628 S 42° 55.008 W	8.5	173	3773	3789	4	2	-	-	x	x	x	x	x	1		
	13:30	56° 47.525 S 42° 55.021 W	7.6	177	3694	3715	4	2	-	-	x	x	x	x	x	1		



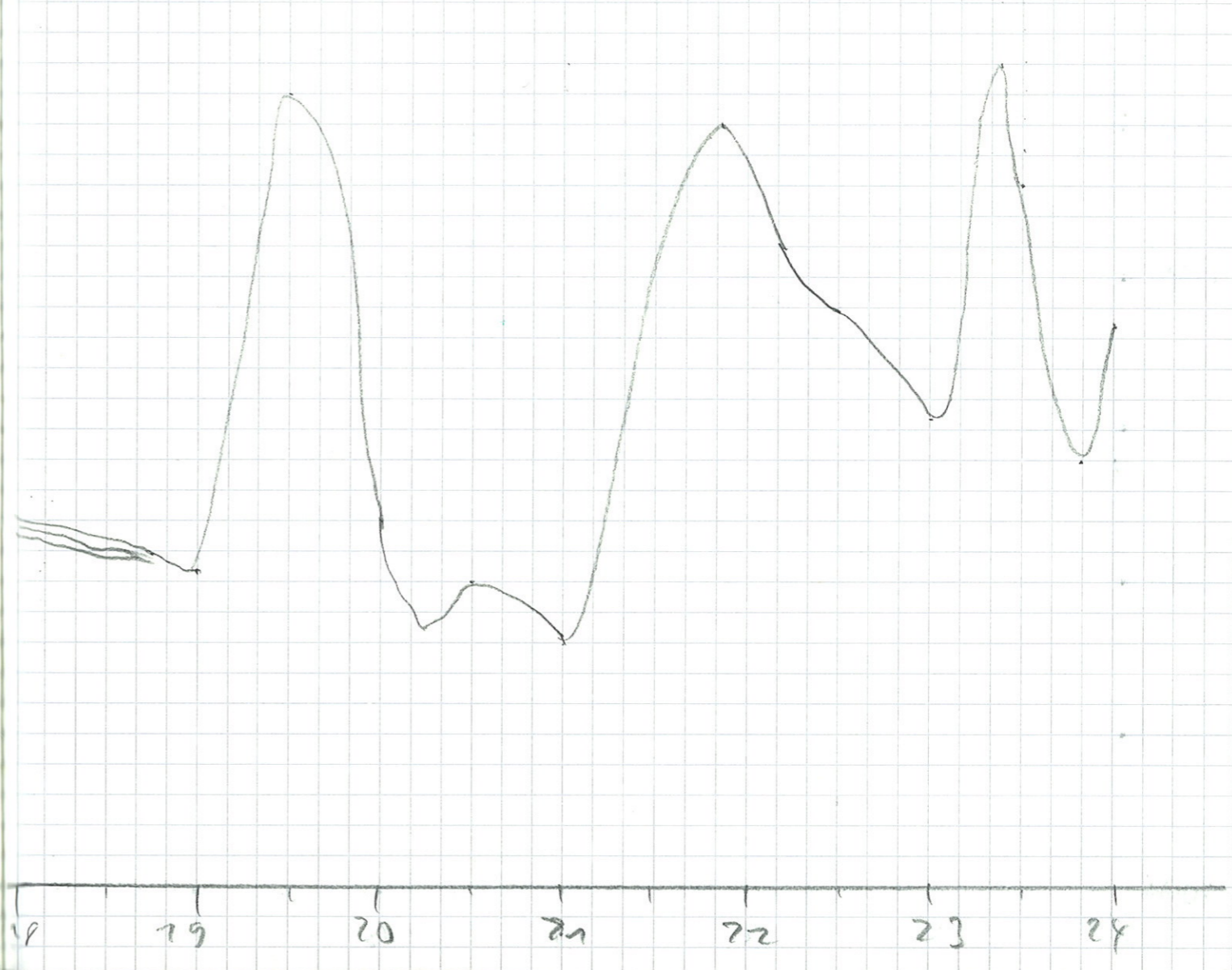
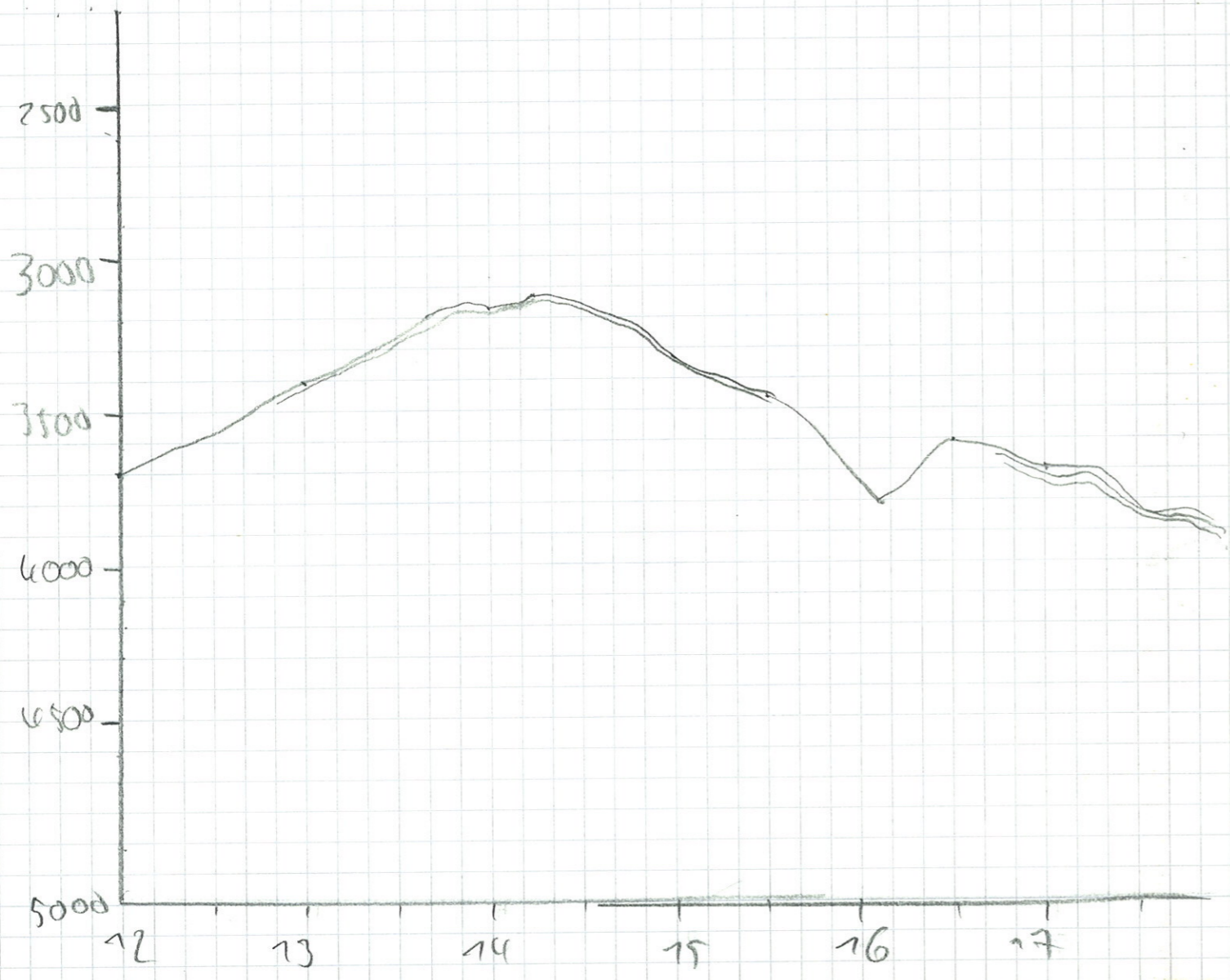
Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq	Pulse	Sens. op. mod.	D. Range	AUX	NBS	PAR	PAR PS	Metrs	Pulse length	Watch keeper	Remarks
5.05.05	14:00	56° 51.526 S	42° 49.876 W	8.3	179	3738.4	3752.0	11	2	-11-	-11-	x	x	x	x	x	-11-	P.G. Bordis Simulic P.G.	
	14:30	56° 55.540 S	42° 54.006 W	8.2	175	3740	3799	11	1	1	1	x	x	x	x	x	-11-		
	15:00	56° 59.916 S	42° 54.990 W	7.7	171	3770	3776	11	1	1	1	x	x	x	x	x	-11-		
	15:30	57° 07.670 S	42° 55.224 W	8.3	177	3669	3625	11	11	11	11	x	x	x	x	x	-11-		
	16:00	57° 07.573 S	42° 55.034 W	8.8	179	3549	3565	11	11	11	11	x	x	x	x	x	-11-		
	16:30	57° 11.596 S	42° 55.076 W	8.7	186	3686	3687	11	11	11	11	x	x	x	x	x	-11-		
	17:00	57° 15.685 S	42° 54.984 W	7.5	178	3432	3500	4	2	-11-	-11-	x	x	x	x	x	-11-		
	17:30	57° 19.746 S	42° 54.999 W	8.3	186	3387	3404	4	2	-11-	-11-	x	x	x	x	x	-11-		
	18:00	57° 23.913 S	42° 54.990 W	8.6	173	3241	3228	4	2	-11-	-11-	x	x	x	x	x	-11-		
	18:30	57° 28.020 S	42° 55.004 W	8.5	176	3176	3131	4	2	-11-	-11-	x	x	x	x	x	-11-		
	19:00	57° 29.980 S	42° 50.124 W	10.5	92	3078	3088	4	2	-11-	-11-	x	x	x	x	x	-11-		
	19:30	57° 25.930 S	42° 49.596 W	8.7	356	3199	3212	4	2	4	4	x	x	x	x	x	-11-		
	20:00	57° 27.687 S	42° 49.603 W	9.3	354	3357	3371	4	2	4	4	x	x	x	x	x	-11-		
	20:30	57° 16.840 S	42° 49.550 W	10.0	3.2	3483	3490	4	7	4	4	x	x	x	x	x	-11-		
	21:00	57° 17.030 S	42° 49.592 W	9.7	366	3710	3728	4	2	7	4	x	x	x	x	x	-11-		
	21:30	57° 7.163 S	42° 49.584 W	9.3	0	3557	3575	4	2	4	4	x	x	x	x	x	-11-		
	22:00	57° 2.388 S	42° 49.602 W	9.3	352	3626	3643	4	2	4	4	x	x	x	x	x	-11-		
	22:30	56° 54.743 S	42° 49.601 W	9.1	357	3706	3718	4	2	4	4	x	x	x	x	x	-11-		
23:00	56° 53.677 S	42° 49.603 W	9.4	357	3724	3727	4	2	4	4	x	x	x	x	x	-11-			
23:30	56° 48.522 S	42° 49.585 W	8.9	358	3768	3788	4	2	-11-	-11-	x	x	x	x	x	-11-			
6.05.05	24:00	56° 48.978 S	42° 49.589 W	9.5	5.5	3905	3906	4	2	-11-	-11-	x	x	x	x	x	-11-	P.G.	
	24:30	56° 39.350 S	42° 48.245 W	9.0	338	2711	2945	4	2	-11-	-11-	x	x	x	x	x	-11-		
	1:00	56° 35.126 S	42° 49.580 W	9.1	351	3095	3083	1	1	1	1	x	x	x	x	x	-11-		
	1:30	56° 30.505 S	42° 49.590 W	9.2	359	4053	4072	1	1	1	1	x	x	x	x	x	-11-		



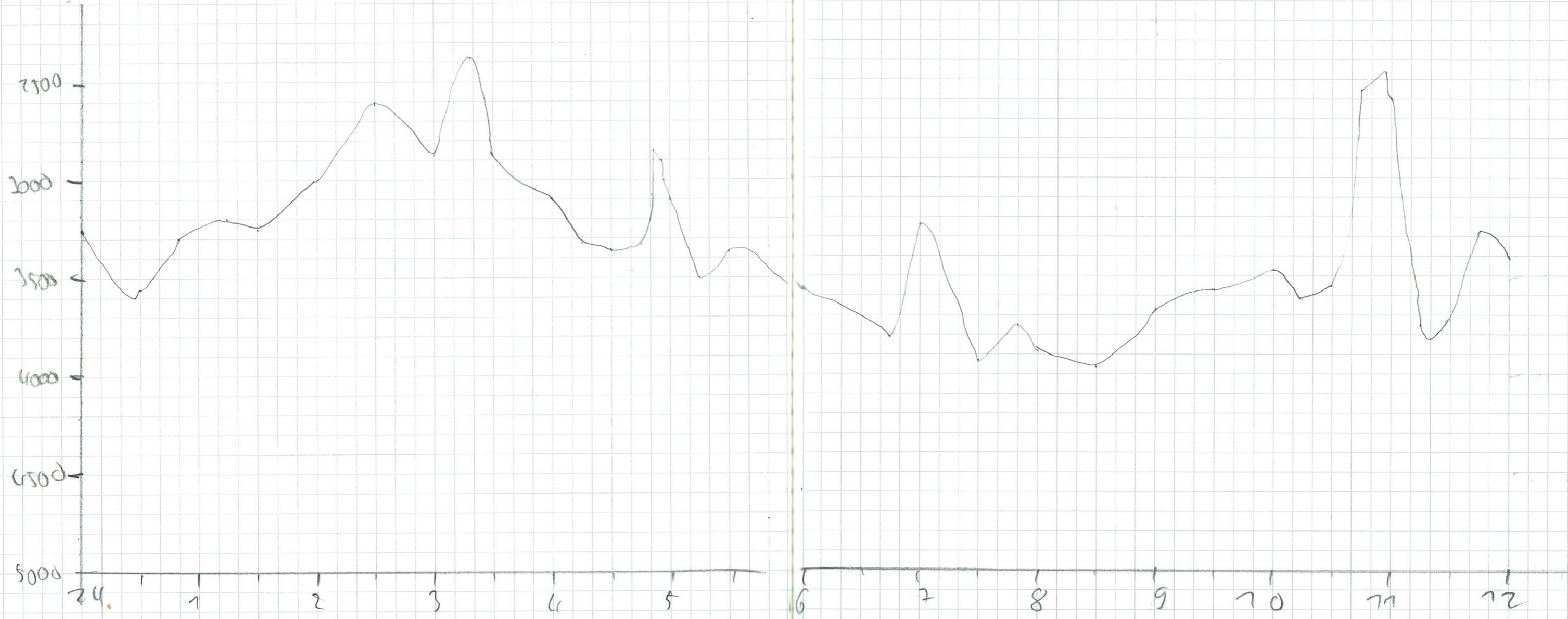
104 Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D. Range	Sens. operet. Mod.	AUX	MES	PAR	PAR PSS	Meta	Pulse TR. length Min	Watch keeper	Remarks
6.05.05	2:00	56° 25.691	S 42° 49.602 W	9.1	351	4441.7	4450	4	2	5000	Bar-Pilot	x	x	x	x	x	1		
	2:30	56° 21.011	S 42° 49.597 W	9.3	359	2692.0	2956.9	1	1	1	1	x	x	x	x	x	1	P.G.	
	3:00	56° 16.312	S 42° 49.605 W	9.7	355	2948	2964	1	1	1	1	x	x	x	x	x	1		
	3:30	56° 11.744	S 42° 49.614 W	9.1	09	3122	3134	4	2	21	1	x	x	x	x	x	4		
	4:00	56° 7.179	S 42° 49.513 W	9.1	01	3511	3526	4	2	4	1	x	x	x	x	x	4		
	4:30	56° 2.563	S 42° 49.502 W	8.8	41	3560	3565	4	2	4	1	x	x	x	x	x	4		
	5:00	55° 52.856	S 42° 49.007 W	9.2	92	2679	2631	4	2	4	1	x	x	x	x	x	4		
	5:30	55° 53.353	S 42° 49.858 W	9.0	51	3140	3446	4	2	4	1	x	x	x	x	x	4		
	6:00	55° 48.887	S 42° 49.594 W	8.6	36	3185	3493	4	2	4	1	x	x	x	x	x	4		
	6:30	55° 44.447	S 42° 49.604 W	8.7	210	3192	3208	4	2	4	1	x	x	x	x	x	4		
	7:00	55° 39.937	S 42° 49.592 W	9.7	06	3028	3537	4	2	5	1	x	x	x	x	x	4		
	7:30	55° 35.503	S 42° 49.588 W	8.8	148	2826	2837	4	2	5	1	x	x	x	x	x	4		
	8:00	55° 30.898	S 42° 49.614 W	9.6	225	2659	2678	4	2	5	1	x	x	x	x	x	4		
	8:30	55° 26.099	S 42° 49.600 W	9.1	356	2507	2507	4	2	5	1	x	x	x	x	x	4		
	9:00	55° 23.268	S 42° 51.466 W	7.6	181	2821	2823	4	2	5	1	x	x	x	x	x	4		
	9:30	55° 27.348	S 42° 51.508 W	7.8	179	2605	2548	4	2	5	1	x	x	x	x	x	4		
	10:00	55° 25.872	S 42° 47.497 W	9.6	354	2422	2429	4	2	5	1	x	x	x	x	x	4		
	10:30	55° 21.955	S 42° 49.605 W	10.3	357	3154	3179	4	2	5	1	x	x	x	x	x	4		
11:00	55° 16.703	S 42° 49.607 W	10.3	2.9	3211	3230	4	2	5	1	x	x	x	x	x	4			
11:30	55° 11.563	S 42° 49.606 W	10.4	2.6	3231	3230	4	2	5	1	x	x	x	x	x	4			
12:00	55° 6.977	S 42° 49.860 W	7.9	299	3383	3398	4	2	5	1	x	x	x	x	x	4			
12:30	55° 4.010	S 42° 49.579 W	9.9	358	3459	3475	4	2	5	1	x	x	x	x	x	4		P.G.	
13:00	54° 59.625	S 42° 49.592 W	10.7	359	3294	3306	4	2	5	1	x	x	x	x	x	4			
13:30	54° 54.040	S 42° 49.609 W	9.9	355	3575	3588	4	2	5	1	x	x	x	x	x	4			



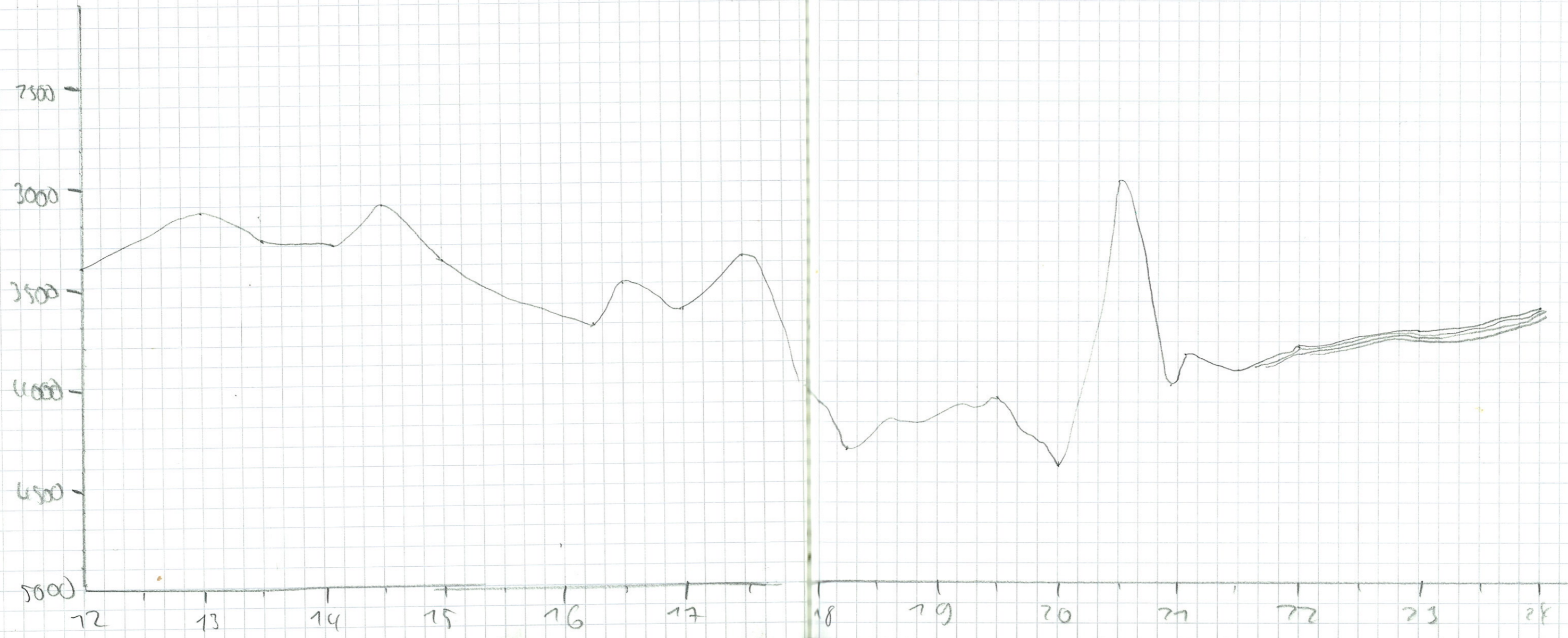
Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Avg.	Pulse	D. Range	Sens. op. mod.	AUX	NBS	PAR	PAR PSS	Mets	P. train length	Watch keeper	Remarks	
7.05.05	14:00	57° 28.057 S	42° 44.388 W	7.7	125	3205	3200	4	2	5000	Per Plot	x	x	x	x	x				
	14:30	57° 29.718 S	42° 39.930 W	8.8	349	3192.5	3205	4	2	"	"	x	x	x	x	x		P.G		
	15:00	57° 24.966 S	42° 40.001 W	8.3	354	3322	3334	4	2	"	"	x	x	x	x	x				
	15:30	57° 19.977 S	42° 39.966 W	8.9	42	3454	3469	4	2	"	"	x	x	x	x	x				
	16:00	57° 15.007 S	42° 40.006 W	9.6	358	3685	3687	4	2	"	"	x	x	x	x	x				
	16:30	57° 9.965 S	42° 39.992 W	10.0	218	3610	3620	4	2	"	"	x	x	x	x	x				
	17:00	57° 4.125 S	42° 39.912 W	10.3	259	3723	3740	4	2	"	"	x	x	x	x	x				
	17:30	56° 59.990 S	42° 39.985 W	10.4	250	3716	3733	4	2	"	"	x	x	x	x	x				
	18:00	58° 51.852 S	42° 39.977 W	9.8	358	3738	3757	4	2	"	"	x	x	x	x	x				
	18:30	56° 50.035 S	42° 40.005 W	10.6	40	3890	3902	4	2	"	"	x	x	x	x	x				
	19:00	56° 45.249 S	42° 39.988 W	9.7	40	4077	4079	4	2	"	"	x	x	x	x	x				
	19:30	56° 40.680 S	42° 39.978 W	9.6	356	2499	2490	4	2	"	"	x	x	x	x	x				
	20:00	56° 35.674 S	42° 40.002 W	9.8	70	3977	3923	4	2	"	"	x	x	x	x	x				
	20:30	56° 30.585 S	42° 39.981 W	10.0	359	4082	4105	4	2	"	"	x	x	x	x	x				
	21:00	56° 25.437 S	42° 40.006 W	10.4	354	4300	4315	4	2	"	"	x	x	x	x	x				
	21:30	56° 20.159 S	42° 40.008 W	10.2	20	4384	4344	4	2	"	"	x	x	x	x	x				
	22:00	56° 14.990 S	42° 39.991 W	10.3	356	2766	2823	4	2	"	"	x	x	x	x	x				
	22:30	56° 10.025 S	42° 39.995 W	9.4	359	3191	3170	4	2	"	"	x	x	x	x	x				
	23:00	56° 5.195 S	42° 40.002 W	9.4	26	3579	3589	4	2	"	"	x	x	x	x	x				
	23:30	56° 00.203 S	42° 40.008 W	10.2	356	2677	2675	4	2	"	"	x	x	x	x	x				
	8.05.05	24:00	55° 55.315 S	42° 40.005 W	9.4	358	3340	3354	4	2	"	"	x	x	x	x	x			
		24:30	55° 50.330 S	42° 39.990 W	10.2	354	3538.9	3551	4	2	"	"	x	x	x	x	x			
		1:00	55° 45.238 S	42° 39.980 W	10.3	115	3286.1	3299	4	2	"	"	x	x	x	x	x			
	1:30	55° 40.234 S	42° 39.993 W	10.2	359	3283.5	32950	4	2	"	"	x	x	x	x	x				



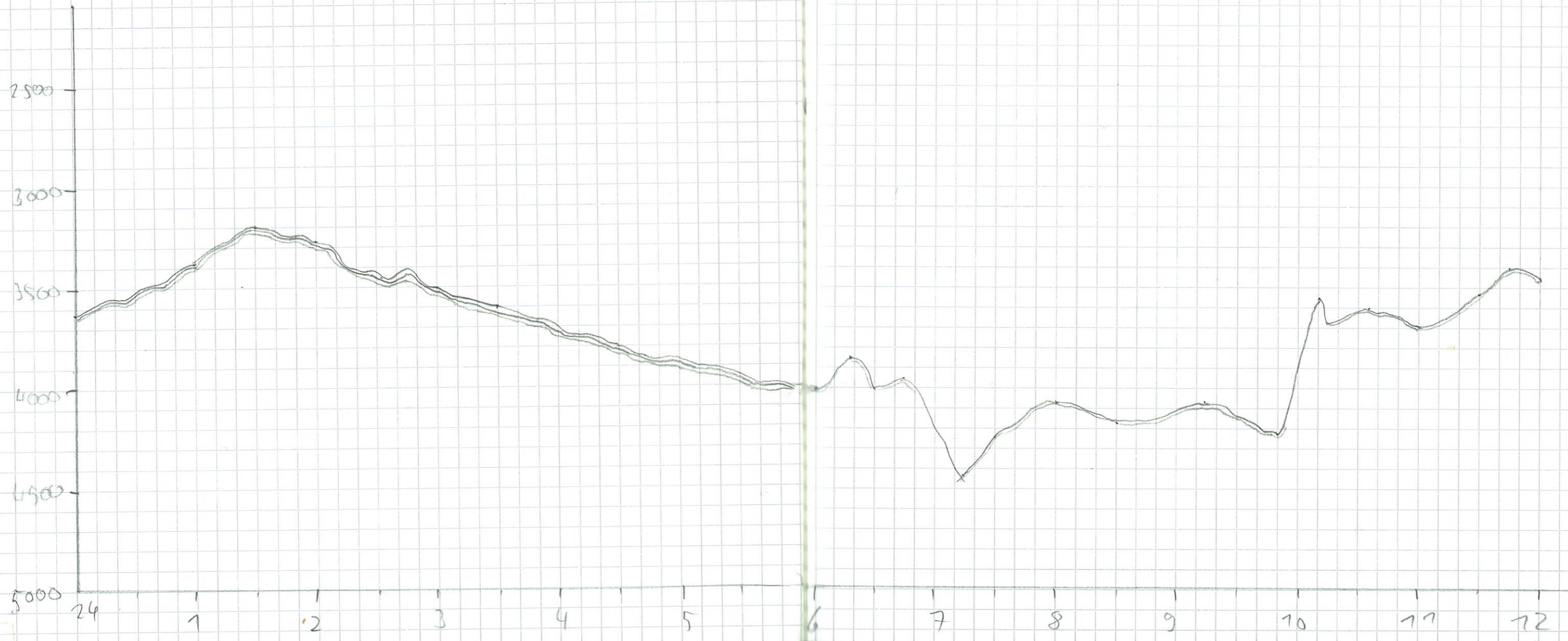
Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq	Pulse	D. Range	Trans. op. mod.	Aux	MBS	PAR	PAR PSS	Meta	Trans. height	Netd. heaper	Remarks
8.05.05	2:00	55° 35.246 S	42° 40.008 W	9.7	1.5	3081	2999	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	2:30	55° 30.233 S	42° 39.947 W	9.7	1.5	2563	2686	4	2	5000	Par-Pilot	x	x	x	x	x	Min	P.G.	
	3:00	55° 25.288 S	42° 39.985 W	9.7	0.2	2177	2892	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	3:30	55° 20.410 S	42° 39.992 W	9.7	3.5	2878	2877	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	4:00	55° 15.524 S	42° 39.945 W	9.7	5.5	3703	3173	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	4:30	55° 10.673 S	42° 39.022 W	9.9	7.56	3410	3111	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	5:00	55° 5.757 S	42° 38.893 W	6.6	7.9	3120	3163	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	5:30	55° 0.775 S	42° 38.892 W	9.7	7.57	3398	3396	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	6:00	54° 55.846 S	42° 38.006 W	10.3	3.57	3536	3500	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	6:30	54° 50.706 S	42° 28.986 W	10.2	3.57	3675	3671	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	7:00	54° 45.583 S	42° 38.996 W	9.9	7.59	3214	3278	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	7:30	54° 40.191 S	42° 39.606 W	10.4	3.59	3507	3518	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	8:00	55° 40.900 S	42° 34.000 W	8.7	18.4	3886	3897	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	8:30	55° 45.160 S	42° 34.000 W	8.7	7.56	3569	3557	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	9:00	54° 49.660 S	42° 33.994 W	8.9	7.87	3690	3705	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	9:30	54° 54.083 S	42° 34.001 W	8.8	7.77	3590	3586	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	10:00	54° 58.472 S	42° 34.012 W	9.7	17.4	3672	3490	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	10:30	55° 2.838 S	42° 34.009 W	8.8	7.80	3523	3544	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	11:00	55° 7.360 S	42° 33.999 W	9.0	17.5	2580	2617	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	11:30	55° 11.500 S	42° 34.031 W	8.3	173.9	3411	3427	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	12:00	55° 16.026 S	42° 33.998 W	8.3	17.8	3372	3394	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	12:30	55° 20.647 S	42° 33.949 W	9.6	17.5	2731	2715.8	4	2	5000	Par-Pilot	x	x	x	x	x	Min	P.G.	
	13:00	55° 25.359 S	42° 34.006 W	9.8	18.2	3136	3146	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	13:30	55° 30.127 S	42° 34.011 W	9.4	18.0	3275.5	3284	4	2	5000	Par-Pilot	x	x	x	x	x	Min		



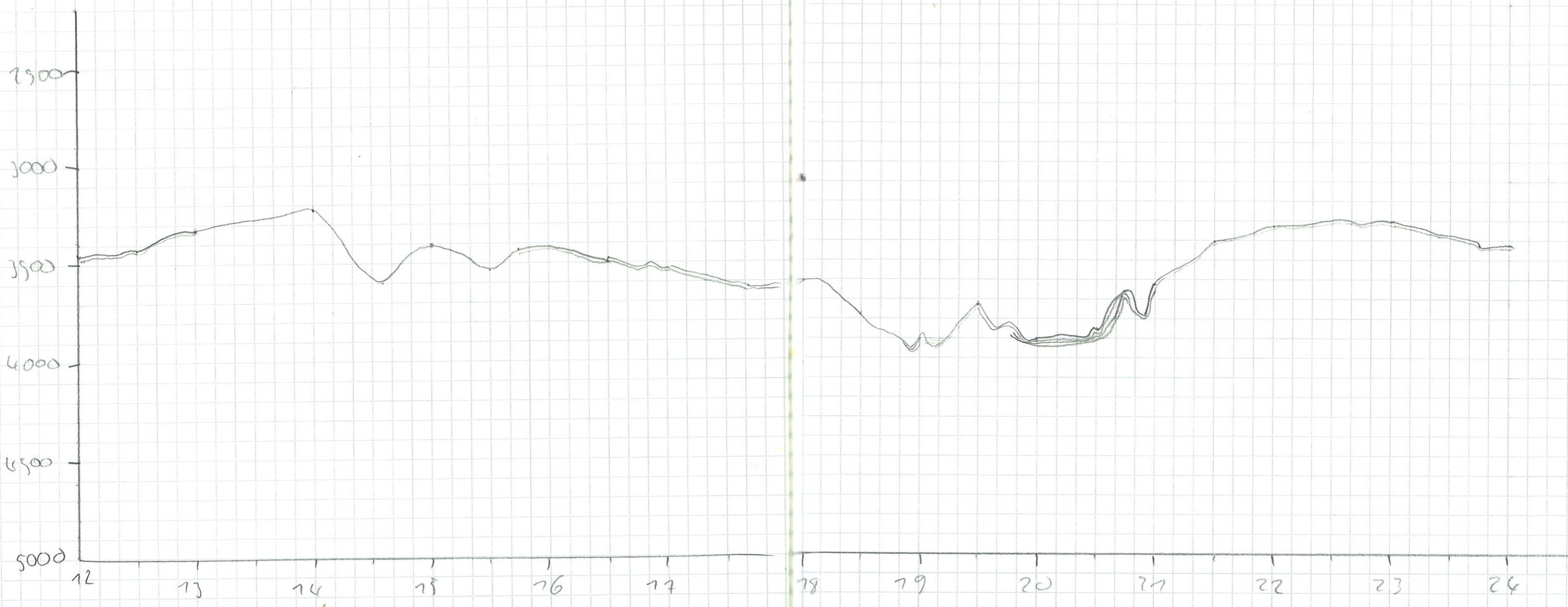
Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D Range	Sens. Operat. Mod.	AUX	NBS	PAR	PAR PSS	Meta	Pulse Train Length	Watch Keeper	Remarks
8.05.05	14:00	55° 36.875	S 42° 34.010 W	9.6	175	3227	3220	4	2	5000	Bo-Pilot	x	x	x	x	x	1	P.G.	
	14:30	55° 39.601	S 42° 34.009 W	9.6	184	3089	3101	4	2			x	x	x	x	x	1		
	15:00	55° 44.592	S 42° 34.005 W	9.7	176	3370	3379	4	2			x	x	x	x	x	1		
	15:30	55° 49.370	S 41° 33.991 W	10.1	177	3378	3402	4	2			x	x	x	x	x	1		
	16:00							4	2			x	x	x	x	x	1		
	16:30	55° 59.775	S 42° 34.001 W	10.1	180	3472	3493	4	2			x	x	x	x	x	1		
	17:00							4	2			x	x	x	x	x	1		
	17:30	56° 9.601	S 42° 34.016 W	10.5	182	3365	3380	4	2			x	x	x	x	x	1		
	18:00	56° 14.798	S 42° 34.007 W	10.6	177	4070	4019	4	2			x	x	x	x	x	1		
	18:30	56° 19.998	S 42° 34.001 W	10.1	178	4242	4263	4	2			x	x	x	x	x	1		
	19:00	56° 25.292	S 42° 33.997 W	10.5	183	4263	4277	4	2			x	x	x	x	x	1		
	19:30	56° 30.480	S 42° 33.992 W	10.7	183	4077	4091	4	2			x	x	x	x	x	1		
	20:00	56° 35.979	S 42° 33.996 W	10.6	180	4350	4405	4	2			x	x	x	x	x	1		
	20:30	56° 40.025	S 42° 33.991 W	10.6	179	3025	3076	4	2			x	x	x	x	x	1		
	21:00	56° 44.610	S 42° 33.992 W	10.3	176	3921	3944	4	2			x	x	x	x	x	1		
21:30	56° 49.745	S 42° 33.997 W	10.5	183	3934	3941	4	2			x	x	x	x	x	1			
22:00	56° 54.966	S 42° 34.024 W	10.5	181	3930	3846	4	2			x	x	x	x	x	1			
22:30	57° 0.277	S 42° 33.998 W	10.4	177	3766	3783	4	2			x	x	x	x	x	1			
23:00	57° 5.248	S 42° 33.996 W	10.4	175	3749	3768	4	2			x	x	x	x	x	1			
23:30	57° 10.320	S 42° 34.010 W	10.3	180	3662	3632	4	2			x	x	x	x	x	1			
9.05.05	24:00	57° 15.336	S 42° 33.983 W	9.7	179	3642	3652	4	2			x	x	x	x	x	1	P.G.	
	24:30	57° 20.227	S 42° 34.012 W	9.4	180	3492	3501	4	2			x	x	x	x	x	1		
	1:00	57° 24.898	S 42° 33.988 W	9.5	180	3393	3384	4	2			x	x	x	x	x	1		
	1:30	57° 29.644	S 42° 33.997 W	9.6	179	3201	3219	4	2			x	x	x	x	x	1		



Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D. Range	Sensor operat. mod.	AUX	RBS	PAR	PAR PSS	Meta	Pulse Train length	Watch keeper	Remarks
9.05.05	2:00	57° 28.834	S 42° 27.966	W 10.7	356	3468	3248	4	2	5000	Port-Pilot	x	x	x	x	x	Mim.		
	2:30	57° 23.584	S 42° 28.004	W 10.7	358	3396	3408	1	1	1	1	x	x	x	x	x	1	P.G.	
	3:00	57° 18.365	S 42° 27.997	W 10.4	359.9	3490.6	3505.0	1	1	1	1	x	x	x	x	x	1		
	3:30	57° 13.160	S 42° 28.094	W 10.1	359	3600	3616	1	1	1	1	x	x	x	x	x	1		03:33 sediment
	4:00	57° 08.101	S 42° 28.008	W 10.5	357	3694	3709	1	1	1	1	x	x	x	x	x	1		
	4:30	57° 03.038	S 42° 27.944	W 10.6	356	3810	3820	1	1	1	1	x	x	x	x	x	1		
	5:00	56° 58.051	S 42° 28.009	W 10.0	353	3814	3826	1	1	1	1	x	x	x	x	x	1		
	5:30	56° 53.213	S 42° 28.005	W 9.6	355	3916	3924	1	1	1	1	x	x	x	x	x	1		
	6:00	56° 48.310	S 42° 28.005	W 9.5	355	4003	4009	1	1	1	1	x	x	x	x	x	1		
	6:30	56° 43.675	S 42° 28.022	W 9.4	356	4003	4018	1	1	1	1	x	x	x	x	x	1		
	7:00	56° 39.018	S 42° 28.001	W 9.4	357	3950	4001	1	1	1	1	x	x	x	x	x	1		
	7:30	56° 34.366	S 42° 27.986	W 9.2	357	4241	4282	1	1	1	1	x	x	x	x	x	1		
	8:00	56° 29.635	S 42° 28.006	W 9.5	355	4109	4220	1	1	1	1	x	x	x	x	x	1		
	8:30	56° 24.852	S 42° 27.985	W 9.4	360	4150	4195	1	1	1	1	x	x	x	x	x	1		
	9:00	56° 19.963	S 42° 27.989	W 9.3	356	4207	4214	1	1	1	1	x	x	x	x	x	1		
	9:30	56° 15.185	S 42° 27.980	W 9.5	353	4154	4162	1	1	1	1	x	x	x	x	x	1		
	10:00	56° 10.453	S 42° 27.994	W 9.7	352	3919	3974	1	1	1	1	x	x	x	x	x	1		
	10:30	56° 5.776	S 42° 27.995	W 9.4	360	3603	3677	1	1	1	1	x	x	x	x	x	1		
	11:00	56° 0.581	S 42° 28.000	W 9.7	358	3703	3715	1	1	1	1	x	x	x	x	x	1		
	11:30	55° 56.031	S 42° 28.000	W 10.1	359	3508	3527	1	1	1	1	x	x	x	x	x	1		
	12:00	55° 51.139	S 42° 27.994	W 9.6	356	3448	3459	1	1	1	1	x	x	x	x	x	1		
	12:30	55° 46.186	S 42° 27.978	W 10.3	2.4	3429	3442	1	1	1	1	x	x	x	x	x	1		
	13:00	55° 41.144	S 42° 27.987	W 9.9	359	3320	3333	1	1	1	1	x	x	x	x	x	1		
	13:30	55° 36.138	S 42° 28.000	W 9.8	357	3221	3236	1	1	1	1	x	x	x	x	x	1		

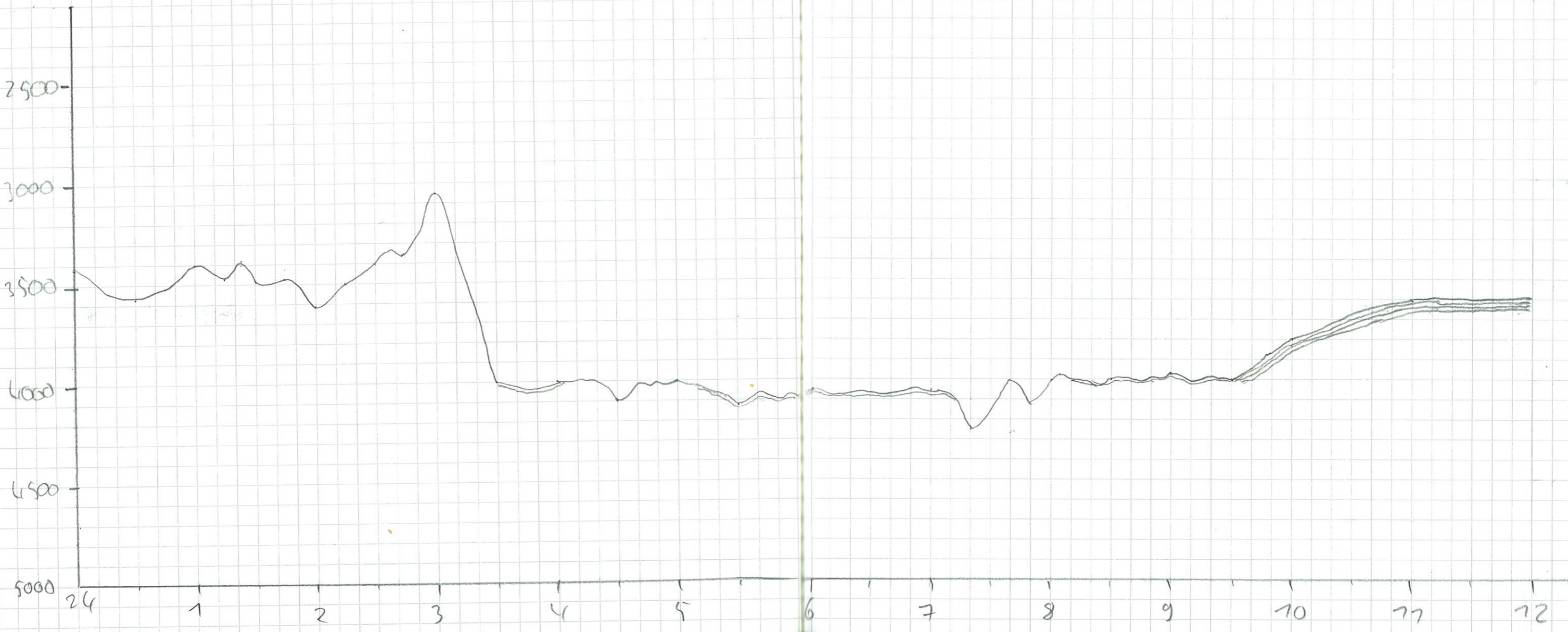


Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth US	Eneg.	Pulse	D. Range	News operat. mod.	AUX	MBS	PAR	PAR PS	Meta	Pulse length	Watch Weeper	Remarks	
9.05.05	14:00	55° 31.199 S	42° 28.007 W	10.1	0.9	3227	3241	4	2	5000	Par-Pilot	x	x	x	x	x	Min.		13:40 programme slotted down	
	14:30	55° 26.225 S	42° 28.002 W	9.6	359	3367	3361	1	1	1	1	x	x	x	x	x	1	P.G.		
	15:00	55° 21.415 S	42° 27.956 W	9.9	36	3405	3407	1	1	1	1	x	x	x	x	x	1			
	15:30	55° 16.661 S	42° 28.022 W	9.6	30	3501	3526	4	2	5000	Par-Pilot	x	x	x	x	x	2			
	16:00	55° 11.871 S	42° 28.002 W	9.4	0.1	3357	3367	1	1	1	1	x	x	x	x	x	1			
	16:30	55° 7.078 S	42° 28.008 W	9.6	0.3	3498	3506	1	1	1	1	x	x	x	x	x	1			
	17:00	55° 2.372 S	42° 27.987 W	9.4	359	3504	3523	1	1	1	1	x	x	x	x	x	1			
	17:30	55° 52.785 S	42° 27.955 W	9.6	352	3574	3577	1	1	1	1	x	x	x	x	x	1			
	18:00	54° 48.293 S	42° 28.010 W	9.4	1.8	3741	3760	1	1	1	1	x	x	x	x	x	1			
	18:30																			
	19:00	54° 43.521 S	42° 27.996 W	9.7	357	3857	3908	1	1	1	1	x	x	x	x	x	1			
	19:30	54° 39.678 S	42° 26.379 W	10.0	89	3751	3761	4	2	4	4	x	x	x	x	x	1			
	20:00	54° 42.165 S	42° 27.793 W	10.0	180	3867	3888	4	2	4	4	x	x	x	x	x	1			
	20:30	54° 47.241 S	42° 27.803 W	10.1	187	3857	3867	4	2	4	4	x	x	x	x	x	1			
	21:00	54° 52.389 S	42° 27.818 W	10.5	182	3574	3597	4	2	4	4	x	x	x	x	x	1			
	21:30	54° 57.484 S	42° 27.815 W	10.2	181	3482	3436	4	2	4	4	x	x	x	x	x	1			
	22:00	54° 7.648 S	42° 27.820 W	10.2	178	3314	3329	4	2	4	4	x	x	x	x	x	1			
	22:30	55° 7.797 S	42° 27.813 W	10.2	180	3367	3349	4	2	4	4	x	x	x	x	x	1			
23:00	55° 7.285 S	42° 27.754 W	10.2	182	3308	3373	4	2	4	4	x	x	x	x	x	1				
23:30	55° 17.960 S	42° 27.808 W	8.6	180	3343	3356	4	2	4	4	x	x	x	x	x	1				
24:00	55° 22.967 S	42° 27.801 W	10.3	180	3433	3444	1	1	1	1	x	x	x	x	x	1				
10.05.05	24:30	55° 27.959 S	42° 27.785 W	9.7	180	3583	3587	1	1	1	1	x	x	x	x	x	1	P.G.		
	01:00	55° 32.893 S	42° 27.798 W	9.9	177	3392	3398	1	1	1	1	x	x	x	x	x	1			
	01:30	55° 37.754 S	42° 27.812 W	10.0	179	3495	3501	1	1	1	1	x	x	x	x	x	1			

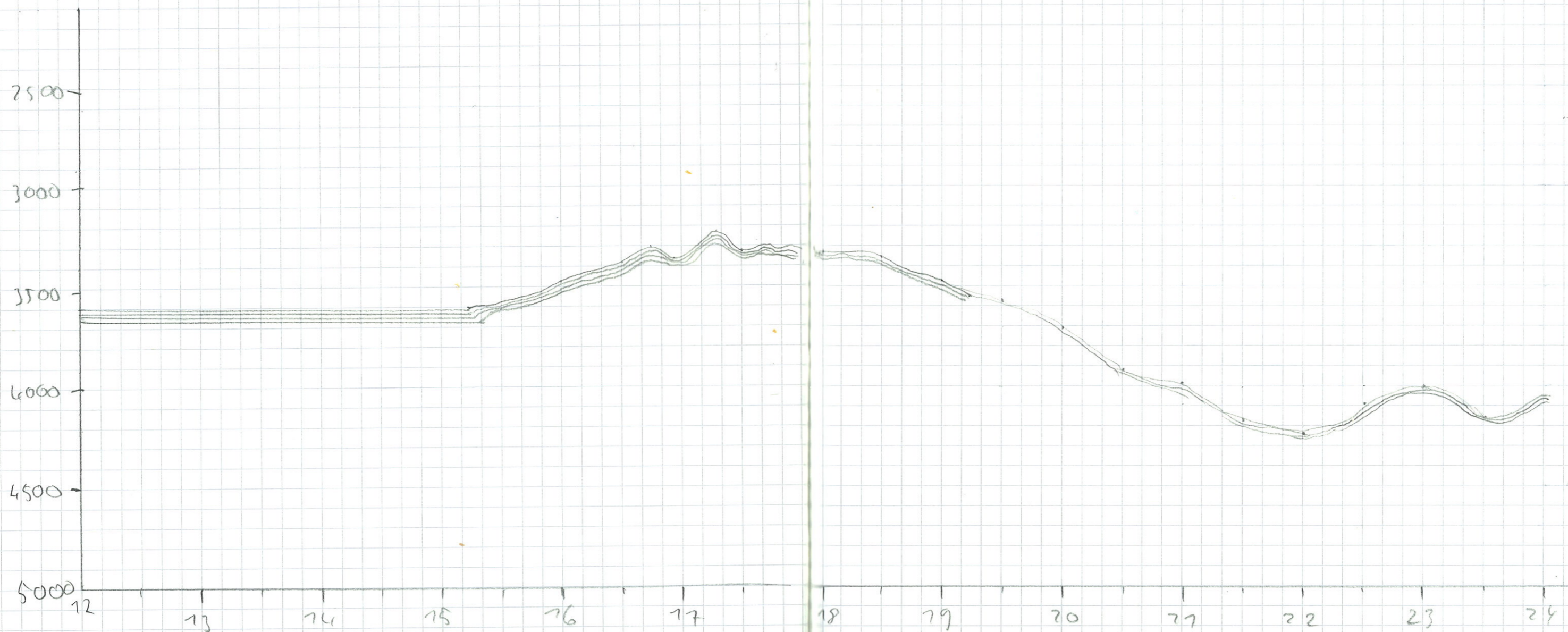


Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth MS	Freq	Pulse	D Range	Sens. operat. mod.	AUX	NBS	PAR	PAR PS3	Meta	Pulse Trans. Height Min.	Watch keeper	Remarks
10.05.05	2:00	55° 42.624 S	42° 21.804 W	9.8	182	3624	3617	4	2	5000	Par-Pilot	x	x	x	x	x			
	2:30	55° 47.569 S	42° 21.806 W	10.1	182	3376	3390	1	1	1	1	x	x	x	x	x		P.G.	
	3:00	55° 52.607 S	42° 21.785 W	10.0	182	3126	3137	1	1	1	1	x	x	x	x	x			
	3:30	55° 57.754 S	42° 21.816 W	10.2	180	4004	4015	1	1	1	1	x	x	x	x	x			
	4:00	56° 02.994 S	42° 21.801 W	10.5	183	4001	4019	1	1	1	1	x	x	x	x	x			
	4:30	56° 08.129 S	42° 21.806 W	10.0	176	4098	4112	1	1	1	1	x	x	x	x	x			
	5:00	56° 13.213 S	42° 21.821 W	10.1	180	3982	3998	1	1	1	1	x	x	x	x	x			
	5:30	56° 18.018 S	42° 21.824 W	9.5	183	4086	4109	1	1	1	1	x	x	x	x	x			
	6:00	56° 22.962 S	42° 21.813 W	10.0	180	4028	4043	1	1	1	1	x	x	x	x	x			
	6:30	56° 27.978 S	42° 21.811 W	10.3	178	4062	4074	1	1	1	1	x	x	x	x	x			
	7:00	56° 33.026 S	42° 21.806 W	10.2	176	4046	4056	1	1	1	1	x	x	x	x	x			
	7:30	56° 38.127 S	42° 21.810 W	10.6	181	4267	4280	2	2	2	2	x	x	x	x	x			
	8:00	56° 43.440 S	42° 21.814 W	10.7	180	3984	4000	2	2	2	2	x	x	x	x	x			
	8:30	56° 48.707 S	42° 21.818 W	10.3	181	3993	4015	2	2	2	2	x	x	x	x	x			
	9:00	56° 53.961 S	42° 21.808 W	10.7	179	3946	3966	2	2	2	2	x	x	x	x	x			
	9:30	56° 59.345 S	42° 21.811 W	10.6	185	3997	4007	2	2	2	2	x	x	x	x	x			
	10:00	57° 04.526 S	42° 21.775 W	10.5	182	3803	3827	2	2	2	2	x	x	x	x	x			
	10:30	57° 09.743 S	42° 21.509 W	10.7	179	3669	3683	2	2	2	2	x	x	x	x	x			
	11:00	57° 13.234 S	42° 24.800 W	10.1	273	3613	3611	2	2	2	2	x	x	x	x	x			
	11:30																		
	12:00																		
	12:30																		
	13:00																		
	13:30																		

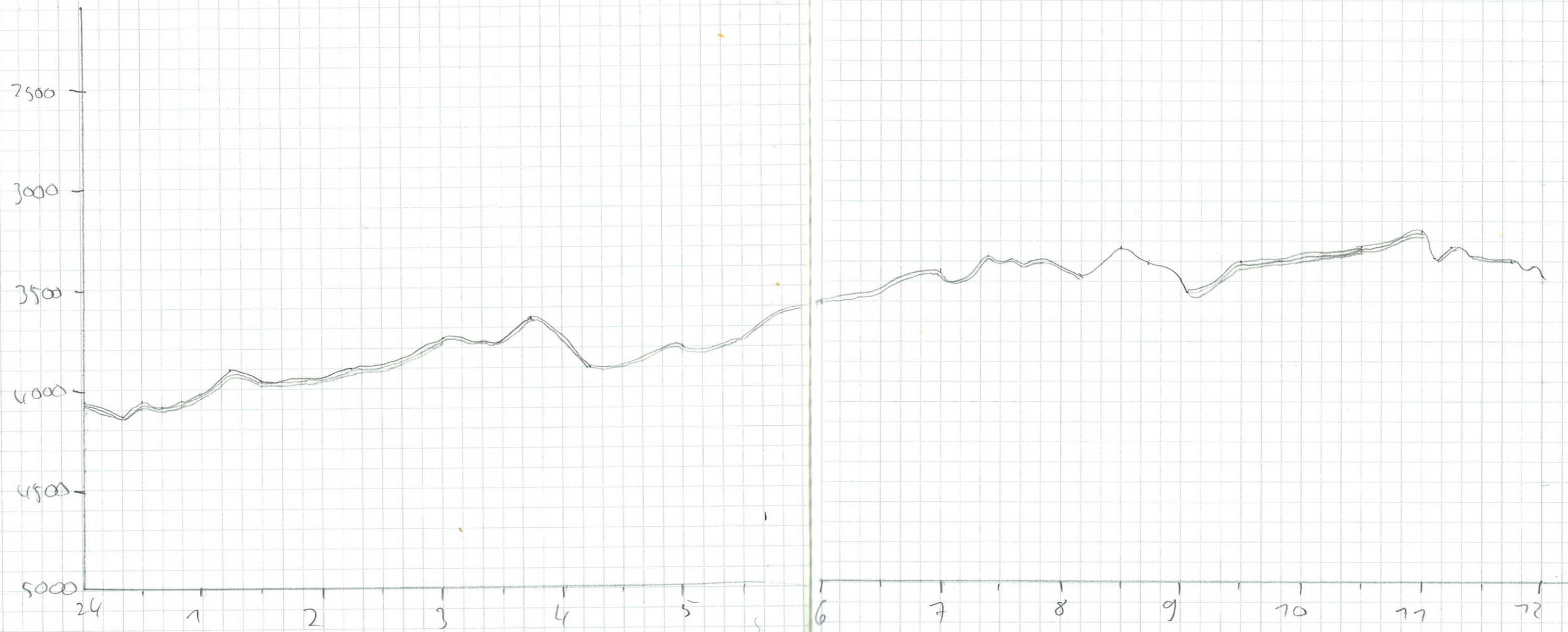
Station KOLG/P19-1
MUC 67/21R-3



Date	Time	Lat/mile	Long/mile	Speed	Course	Depth PS	Depth KS	Freq.	Pulse	D. Range	Sens. operat. mod.	AUX	NBS	PAR	PAR PSS	Mets	Pulse Trans. Length	Watch keeper	Remarks
10.05.05	14:00																		
	14:30																		
	15:00																		Station sound 15:05
	15:30	57° 12. 940 S	42° 21. 173 W	8.7	152	3531	3610	1r	2	5000	PAR-150	x	x	x	x	x	drin		
	16:00	57° 18. 050 S	42° 21. 798 W	10.3	181	3464	3481	4r	2	5000	"	x	x	x	x	x	"		
	16:30	57° 23. 075 S	42° 21. 814 W	9.9	179	3365	3382	4r	2	"	"	x	x	x	x	x	"		
	17:00	57° 27. 811 S	42° 21. 821 W	9.4	179	3317	3334	4r	2	"	"	x	x	x	x	x	"		
	17:30	57° 30. 236 S	42° 17. 389 W	9.7	91	3317	3325	4r	2	"	"	x	x	x	x	x	"		
	18:00	57° 26. 413 S	42° 15. 517 W	9.1	358	3345	3352	4r	2	"	"	x	x	x	x	x	"		
	18:30	57° 27. 859 S	42° 15. 524 W	9.1	359	3351	3364	4r	2	"	"	x	x	x	x	x	"		
	18:00	57° 17. 218 S	42° 15. 499 S	9.3	4.2	3485	3495	4r	2	"	"	x	x	x	x	x	"		
	18:30	57° 12. 545 S	42° 15. 507 W	9.0	3.2	3566	3578	4r	2	"	"	x	x	x	x	x	"		
	20:00	57° 8. 076 S	42° 15. 507 W	8.9	359	3712	3727	4r	2	"	"	x	x	x	x	x	"		
	20:30	57° 3. 594 S	42° 15. 491 W	9.2	355	3910	3932	4r	2	"	"	x	x	x	x	x	"		
	21:00	56° 59. 105 S	42° 15. 485 W	8.6	359	3990	4001	4r	2	"	"	x	x	x	x	x	"	21:12 Falsche Tiefe wg. HS-Probleme	
	21:30	56° 54. 646 S	42° 15. 476 W	8.7	357	4172	4197	4r	2	"	"	x	x	x	x	x	"		
	22:00	56° 50. 326 S	42° 15. 471 W	8.5	7.3	4236	4225	4r	2	"	"	x	x	x	x	x	"		
	22:30	56° 46. 253 S	42° 15. 497 W	8.1	8.7	4095	4079	4r	2	"	"	x	x	x	x	x	"		
	23:00	56° 42. 059 S	42° 15. 507 W	8.6	195	4005	4000	4r	2	"	"	x	x	x	x	x	"		
	23:30	56° 37. 709 S	42° 15. 499 W	8.9	3.6	4157	4172	4r	2	"	"	x	x	x	x	x	"		
11.05.05	24:00	56° 33. 367 S	42° 15. 486 W	8.3	5.9	4058	4044	1r	1	"	"	x	x	x	x	x	"	P.G.	
	24:30	56° 23. 080 S	42° 15. 503 W	8.7	3.1	4068	4084	4r	2	5000	PAR-150	x	x	x	x	x	"	→ Albrecht	
	1:00	56° 24. 800 S	42° 15. 507 W	8.6	358	4047	4068	1r	1	"	"	x	x	x	x	x	"		
	1:30	56° 20. 578 S	42° 15. 501 W	8.5	359	4056	4008	1r	1	"	"	x	x	x	x	x	"		

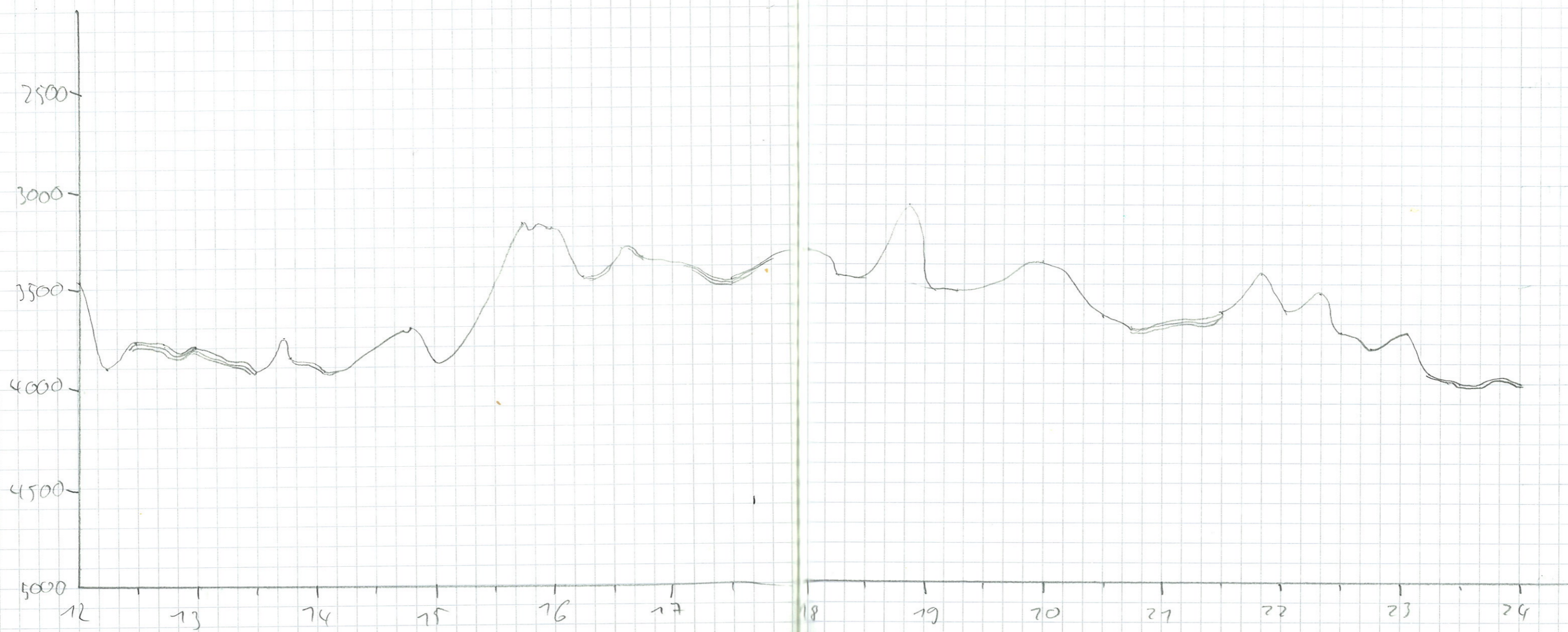


Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D. Range	Sens. Operat. Modus	PAR	RBS	PAR PSS	Metc	Pulse Train Length	Watch keeper	Remarks
11.05.05	2:00	56° 16.451	S 42° 15.494	W 7.6	359	3936	3967	4	2	5000	Par-Pilot	r	r	r	r	r		
	2:30	56° 12.450	S 42° 15.496	W 8.0	356	3919	3906	1	7	4	7	x	x	x	x	x		P.G.
	3:00	56° 08.476	S 42° 15.504	W 7.8	359	3750	3793	7	7	4	7	x	x	x	x	x		
	3:30	56° 04.682	S 42° 15.486	W 8.1	357	3714	3739	4	2	5000	-	x	x	x	x	x		
	4:00	56° 00.967	S 42° 15.514	W 7.4	358	3730	3759	4	2	-	-	x	x	x	x	x		
	4:30	55° 57.144	S 42° 15.485	W 7.3	359	3872	3855	4	2	-	-	x	x	x	x	x		
	5:00	55° 53.622	S 42° 15.500	W 7.1	357	3790	3802	4	2	-	-	x	x	x	x	x		
	5:30	55° 49.861	S 42° 15.490	W 8.8	62	3867	3879	4	2	-	-	x	x	x	x	x		
	6:00	55° 45.813	S 42° 15.483	W 7.7	359	3589	3606	4	2	-	-	x	x	x	x	x		
	6:30	55° 41.006	S 42° 15.501	W 8.6	09	3596	3597	4	2	-	-	x	x	x	x	x		
	7:00	55° 37.219	S 42° 15.474	W 8.9	14	3454	3477	4	2	-	-	x	x	x	x	x		
	7:30	55° 32.650	S 42° 15.517	W 8.0	350	3402	3414	4	2	-	-	x	x	x	x	x		
	8:00	55° 28.678	S 42° 15.509	W 7.3	0.6	3321	3335	4	2	-	-	x	x	x	x	x		
	8:30	55° 24.907	S 42° 15.508	W 7.3	0.6	3321	3335	4	2	-	-	x	x	x	x	x		
	9:00	55° 20.275	S 42° 15.497	W 9.7	355	3414	3420	4	2	-	-	x	x	x	x	x		
	9:30	55° 15.908	S 42° 15.496	W 9.7	357	3414	3420	4	2	-	-	x	x	x	x	x		
	10:00	55° 11.659	S 42° 15.485	W 9.3	357	3327	3337	4	2	-	-	x	x	x	x	x		
	10:30	55° 06.804	S 42° 15.507	W 8.2	358	3327	3339	4	2	-	-	x	x	x	x	x		
	11:00	55° 02.292	S 42° 15.607	W 9.0	3.6	3254	3266	4	2	-	-	x	x	x	x	x		
	11:30	54° 57.462	S 42° 15.491	W 9.0	0.8	3270	3284	4	2	-	-	x	x	x	x	x		
	12:00	54° 53.343	S 42° 15.497	W 8.2	358	3481	3469.3	4	4	-	-	x	x	x	x	x		P.G.
	12:30	54° 53.280	S 42° 15.498	W 8.2	356	3481	3469.3	4	4	-	-	x	x	x	x	x		
	13:00	54° 44.377	S 42° 15.489	W 8.7	359	3835	3842	4	4	-	-	x	x	x	x	x		
	13:30	54° 40.017	S 42° 15.480	W 8.9	358	3934	3944	4	4	-	-	x	x	x	x	x		

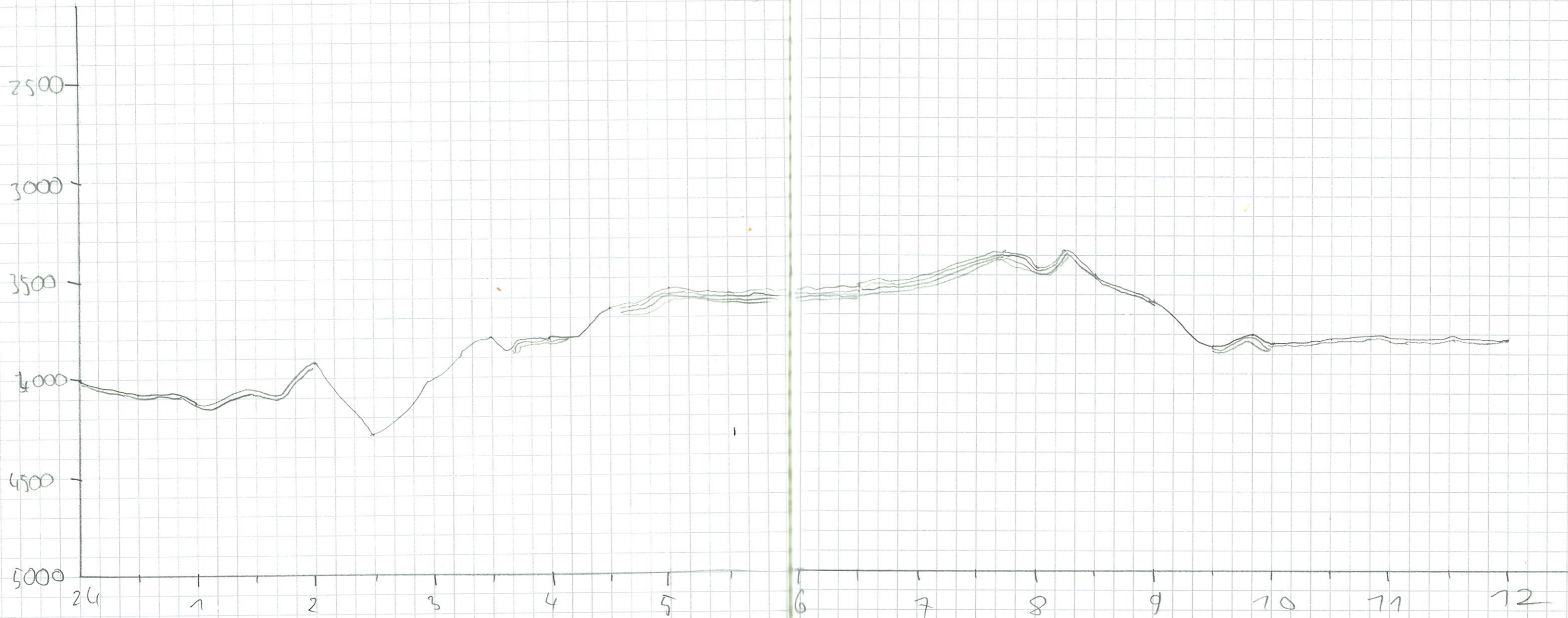


Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS
11.05.05	14:00	54° 40.575 S	42° 08.985 W	10.0	177	3779	3768
	14:30	54° 45.745 S	42° 08.997 W	10.9	181	3953	3971
	15:00	54° 51.017 S	42° 08.997 W	10.7	179	3893	3884
	15:30	54° 56.239 S	42° 08.020 W	10.5	178	3459	3484
	16:00	55° 01.563 S	42° 08.004 W	10.7	178	3223	3227
	16:30	55° 06.803 S	42° 08.996 W	10.6	178	3369	3382
	17:00	55° 12.138 S	42° 08.013 W	10.2	179	3319	3325
	17:30	55° 17.273 S	42° 08.028 W	10.1	177	3478	3488
	18:00	55° 22.345 S	42° 08.955 W	10.2	177	3334	3344
	18:30	55° 27.485 S	42° 08.990 W	10.1	177	3330	3345
	19:00	55° 32.557 S	42° 08.013 W	10.4	170	3491	3525
	19:30	55° 37.649 S	42° 08.969 W	10.0	180	3577	3529
	20:00	55° 42.625 S	42° 08.998 W	10.0	180	3394	3440
	20:30	55° 47.106 S	42° 08.988 W	10.2	180	3693	3702
	21:00	55° 52.986 S	42° 08.994 W	10.4	186	3727	3739
	21:30	55° 58.747 S	42° 09.011 W	10.4	178	3635	3654
	22:00	56° 03.283 S	42° 08.983 W	10.7	180	3616	3626
	22:30	56° 08.490 S	42° 08.998 W	10.3	182	3739	3755
23:00	56° 13.556 S	42° 09.006 W	10.0	180	3755	3770	
23:30	56° 18.729 S	42° 08.994 W	10.2	181	4008	4019	
12.05.05	24:00	56° 23.429 S	42° 09.004 W	9.8	181	3994	4009
	01:00	56° 28.483 S	42° 09.002 W	10.1	179	4071	4087
	01:30	56° 33.627 S	42° 09.014 W	10.2	179	4121	4138
	02:00	56° 38.800 S	42° 09.002 W	10.6	177	3975	3994

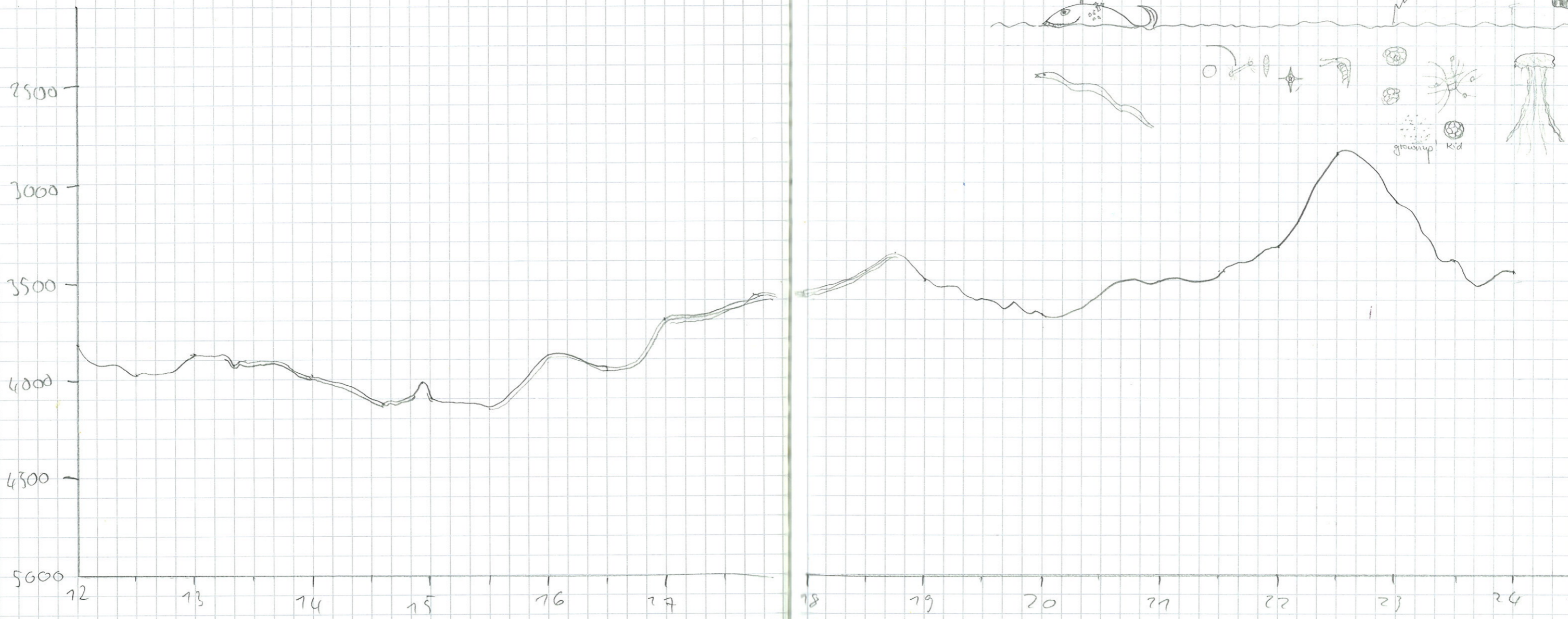
Freq.	Pulse	D.Range	Sens. Operet. Mod.	Aux	MBS	PAR	PAR PS3	Meta	Pulse Train length	Watch keeper	Remarks
4	2	5000	Par-Pilot	✓	✓	✓	✓	✓	Min.	P.G.	
4	4	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		
4	2	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		
4	2	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		
4	2	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		
4	2	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		
4	2	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		
4	2	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		
4	2	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		
4	2	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		
4	2	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		
4	2	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		
4	2	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		
4	2	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		
4	2	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		
4	2	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		
4	2	5000	PAR-Pilot	✓	✓	✓	✓	✓	Min.		



Date 128	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D Range	seis. operet. Mod.	AUX	NBS	PAR	PAR PSS	Metel	Pulse train length	Watch Keeper	Remarks
12.05.05	2:00	56° 44.098 S	42° 08.987 W	11.3	179	3929	3943	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	2:30	56° 49.530 S	42° 09.000 W	11.3	181	4237.8	4250	4	2	-h-	-h-	x	x	x	x	x	-h-	P.G.	
	3:00	56° 55.099 S	42° 09.028 W	11.	178	4042	4063	4	2	-h-	-h-	x	x	x	x	x	-h-		
	3:30	57° 00.676 S	42° 09.030 W	10.8	180	3802	3817	4	"	"	"	x	x	x	x	x	-h-		
	4:00	57° 06.017 S	42° 09.980 W	10.8	180	3803	3818	4	"	"	"	x	x	x	x	x	-h-		
	4:30	57° 11.205 S	42° 09.998 W	10.3	180	3617	3691	4	"	"	"	x	x	x	x	x	-h-		
	5:00	57° 16.247 S	42° 09.004 W	10.6	178	3516	3534	4	"	"	"	x	x	x	x	x	-h-		
	5:30	57° 21.470 S	42° 09.021 W	9.9	173	3382	3402	4	"	"	"	x	x	x	x	x	-h-		
	6:00	57° 26.456 S	42° 09.010 W	8.8	180	3371	3390	4	2	"	"	x	x	x	x	x	-h-		
	6:30	57° 30.333 S	42° 09.39 W	9.2	102	3353	3377	4	2	"	"	x	x	x	x	x	-h-		
	7:00	57° 28.826 S	42° 09.90 W	7.3	359	3373	3392	4	2	"	"	x	x	x	x	x	-h-		
	7:30		42° 09.90 W					4	2	"	"	x	x	x	x	x	-h-		
	8:00	57° 20.28 S	42° 09.84 W	8.6	355	3457	3470	4	2	"	"	x	x	x	x	x	-h-		
	8:30	57° 15.930 S	42° 09.25 W	8.9	2.6	3504	3509	4	2	"	"	x	x	x	x	x	-h-		
	9:00	57° 11.750 S	42° 09.00 W	8.4	4.5	3626	3636	4	2	"	"	x	x	x	x	x	-h-		
	09:30	57° 07.559 S	42° 09.91 W	8.7	3.7	3857	3870	4	2	"	"	x	x	x	x	x	-h-		
	10:00	57° 03.482 S	42° 09.01 W	7.9	358	3830	3846	4	2	"	"	x	x	x	x	x	-h-		
	10:30	57° 05.474 S	42° 09.65 W	7.8	359	3837	3853	4	2	"	"	x	x	x	x	x	-h-		
	11:00	56° 58.690 S	42° 09.330 W	6.5	179	3835.1	-	4	2	"	"	x	x	x	x	x	-h-		
	11:30	56° 58.284 S	42° 02.988 W	7.6	4.5	3835	3849	4	2	-h-	-h-	x	x	x	x	x	-h-		
	12:00	56° 54.088 S	42° 03.015 W	7.4	2.0	3851	3867	4	2	-h-	-h-	x	x	x	x	x	-h-	P.G.	
	12:30	56° 50.641 S	42° 02.891 W	4.7	344	3965	3992	4	2	-h-	-h-	x	x	x	x	x	-h-		
	13:00	56° 46.788 S	42° 02.988 W	8.1	356	3873	3890	4	2	-h-	-h-	x	x	x	x	x	-h-		
	13:30	56° 42.722 S	42° 02.997 W	8.5	359	3882	3898	4	2	-h-	-h-	x	x	x	x	x	-h-		

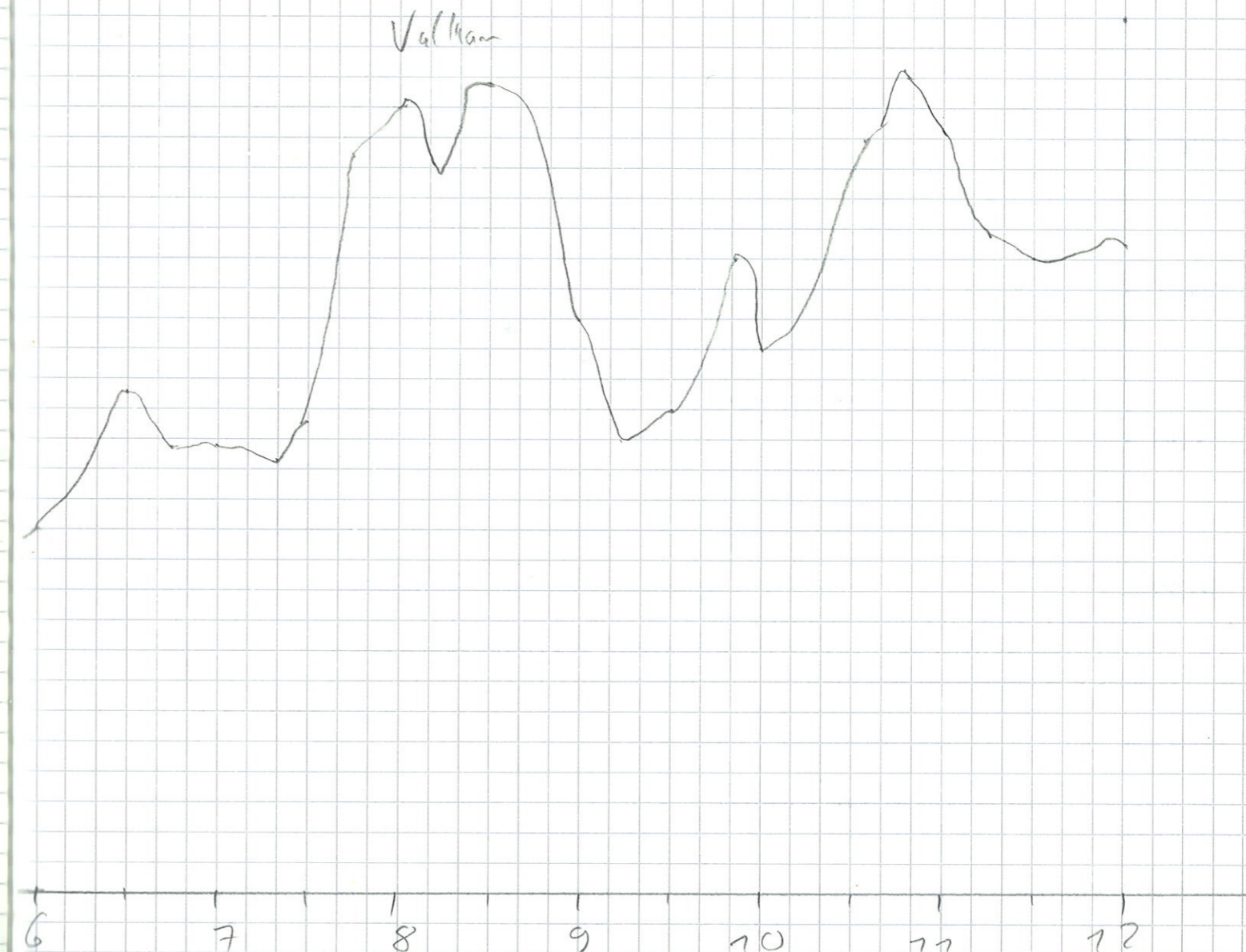
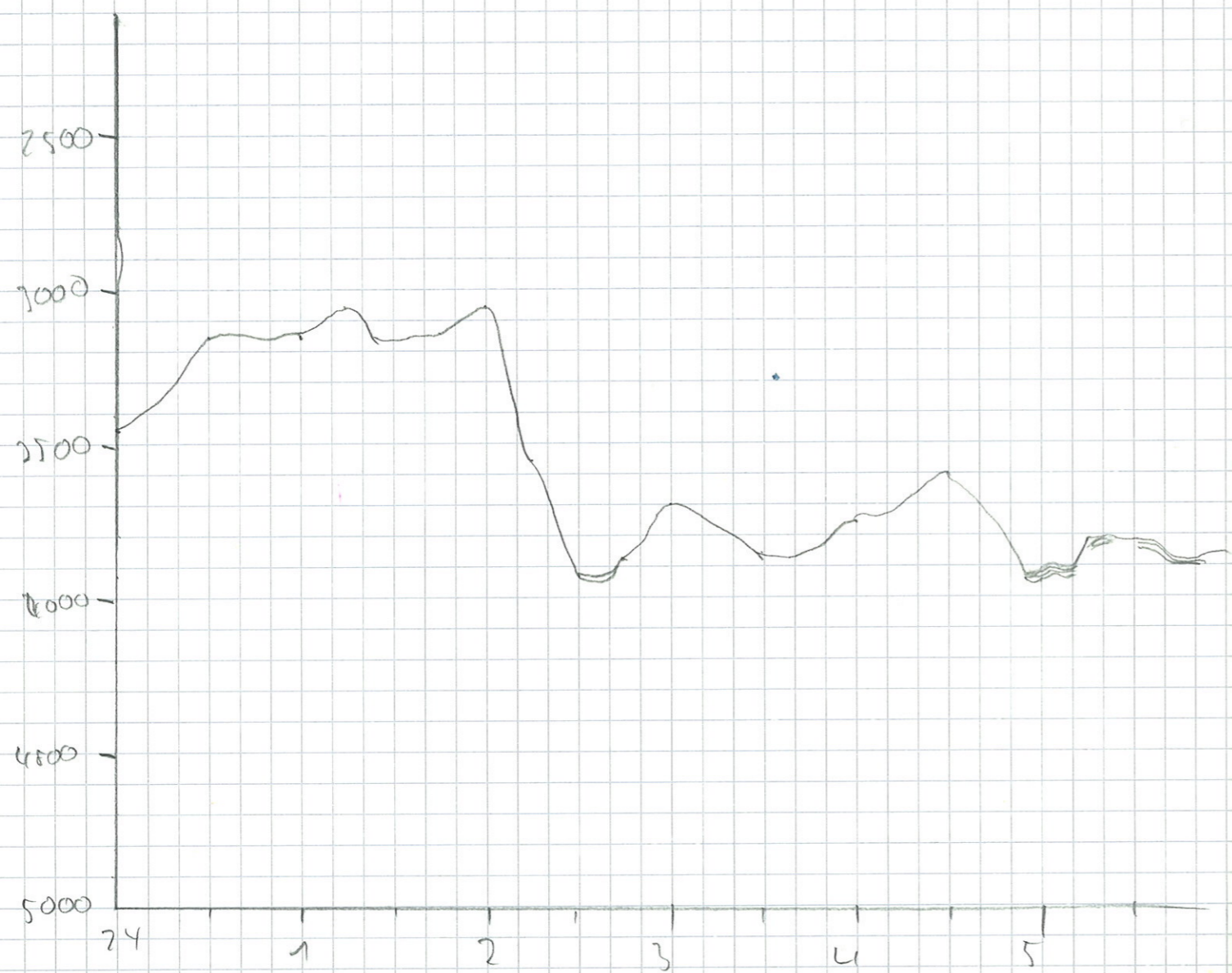
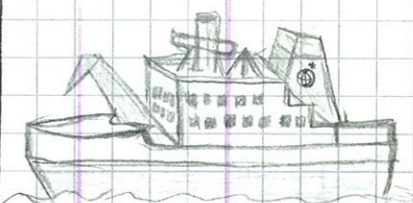


Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq	Pulse	D. Range	Sens. Operat. Mod.	AUX	MBS	PAR	PAR PSS	Meta	Pulse Trans. remout	Watch Keeper	Remarks
12.05.05	14:00	56° 38.661 S	42° 03.021 W	8.2	388	3975	3997	4	2	5000	Bar Pilot	x	x	x	x	x	Min.		
	14:30	56° 34.490 S	42° 02.992 W	8.5	358	4072	4088	4	2	"	"	x	x	x	x	x	"	P.G.	
	15:00	56° 30.287 S	42° 02.982 W	8.9	1.1	4112	4129	4	2	"	"	x	x	x	x	x	"		
	15:30	56° 25.969 S	42° 02.964 W	8.9	258	4141	4151	4	2	"	"	x	x	x	x	x	"		
	16:00	56° 21.625 S	42° 02.986 W	8.6	355	3887	3903	4	2	"	"	x	x	x	x	x	"		
	16:30	56° 17.600 S	42° 02.000 W	8.5	5.6	3940	3967	4	2	"	"	x	x	x	x	x	"		
	17:00	56° 13.107 S	42° 02.007 W	8.4	3207	3726	3727	4	2	"	"	x	x	x	x	x	"		
	17:30	56° 09.180 S	42° 02.986 W	8.2	357	3732	3747	4	2	"	"	x	x	x	x	x	"		
	18:00	56° 05.094 S	42° 02.993 W	8.2	0.6	3569	3578	4	2	"	"	x	x	x	x	x	"		
	18:30	56° 01.250 S	42° 02.994 W	8.0	0.3	3443	3458	4	2	"	"	x	x	x	x	x	"		
	19:00	55° 57.559 S	42° 02.003 W	7.9	0.3	3491	3509	4	2	"	"	x	x	x	x	x	"		
	19:30	55° 53.407 S	42° 2.001 W	8.7	0.3	3626	3650	4	2	"	"	x	x	x	x	x	"		
	20:00	55° 49.440 S	42° 2.979 W	7.6	2.8	3684	3703	4	2	"	"	x	x	x	x	x	"		
	20:30	55° 45.782 S	42° 3.145 W	5.0	3.68	3606	3610	4	2	"	"	x	x	x	x	x	"		
	21:00	55° 42.210 S	42° 2.965 W	8.5	358	3609	3627	4	2	"	"	x	x	x	x	x	"		
	21:30	55° 38.077 S	42° 2.984 W	8.2	358	3552	3564	4	2	"	"	x	x	x	x	x	"		
	22:00	55° 34.033 S	42° 2.990 W	8.1	358	3304	3369	4	2	"	"	x	x	x	x	x	"		
	22:30	55° 30.005 S	42° 02.981 W	8.7	357	2839	2852	4	2	"	"	x	x	x	x	x	"		
	23:00	55° 25.964 S	42° 2.994 W	8.2	356	3070	3106	4	2	"	"	x	x	x	x	x	"		
	23:30	55° 21.968 S	42° 02.979 W	8.4	1.6	3425	3431	4	2	"	"	x	x	x	x	x	"		
13.05.05	24:00	55° 17.719 S	42° 02.979 W	8.7	358	3456	3476	4	2	"	"	x	x	x	x	x	"	P.G.	
	24:30	55° 13.315 S	42° 03.009 W	8.8	359	3444	3463	4	2	"	"	x	x	x	x	x	"		
	1:00	55° 08.980 S	42° 02.993 W	9.0	359	3443	3458	4	2	"	"	x	x	x	x	x	"		
	1:30	55° 04.587 S	42° 03.020 W	9.1	357	3476	3488	4	2	"	"	x	x	x	x	x	"		

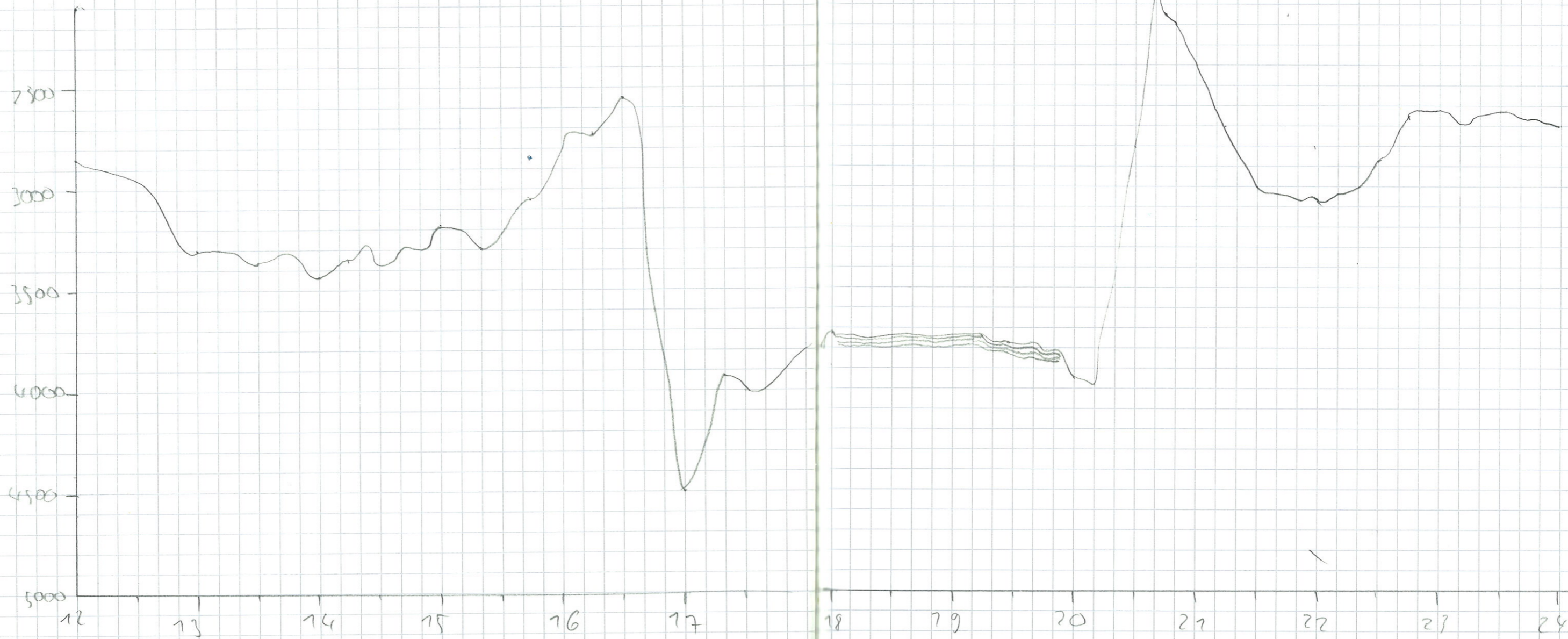


Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth MS	Freq.	Pulse	D. Range	Sens. operat. Mod.	AUX	NBS	PAR	PAR PSS	Metd	Pulse Fresh length	Watch Keeper	Remarks
13.05.05	2:00	55° 00.246	S 42° 03.005 W	8.9	356	3005	3060	4	2	5000	Par-Pild	x	x	-	x	x	Min		
	2:30	54° 55.791	S 42° 02.999 W	8.8	358	3925	3938	4	2	4m	h-	x	x	-	x	x	h-	P.G	
	3:00	54° 51.333	S 42° 02.950 W	8.6	25	3683	3702	4	2	h-	h-	x	x	-	x	x	h-		
	3:30	54° 46.703	S 41° 03.003 W	9.5	70	3910	3961	4	2	h-	h-	x	x	-	x	x	h-		
	4:00	54° 42.052	S 42° 02.995 W	9.5	358	3740	3762	4	2	h-	h-	x	x	-	x	x	h-		
	4:30	54° 40.178	S 41° 00.719 W	9.0	215	3629	-	4	2	h-	h-	x	x	-	x	x	h-		
	5:00							4	2	h-	h-	x	x	-	x	x	h-		
	5:30	54° 48.483	S 42° 13.332 W	21.5	216	3724	-	4	2	h-	h-	x	x	-	x	x	h-		
	6:00	54° 52.401	S 42° 18.066 W	10.2	216	3870	-	4	2	h-	h-	x	x	-	x	x	h-		
	6:30																		
	7:00	55° 00.402	S 42° 27.795 W	9.9	213	3525	-	4	2	h-	h-	x	x	-	x	x	h-		
	7:30	55° 4.287	S 42° 32.625 W	5.3	215	3368	-												
	8:00	55° 5.863	S 42° 34.706 W	3.8	213	2395	-												
	8:30	55° 6.828	S 41° 36.030 W	2.4	212	2349	-												
	9:00	55° 8.450	S 42° 38.205 W	2.4	212	3136	-												
	9:30	55° 11.919	S 42° 42.200 W	9.7	193	3378	-												
	10:00	55° 16.561	S 42° 44.520 W	9.6	198	3259	-												
	10:30	55° 21.340	S 42° 46.561 W	10.7	199	2680	-												
	11:00	55° 26.249	S 42° 49.306 W	10.7	197	2767	-												
	11:30	55° 31.225	S 42° 51.771 W	10.1	199	2899	-												
	12:00	55° 36.346	S 42° 54.315 W	10.5	193	2852	2865	4	2	h-	h-	x	x	-	x	x	h-		
	12:30	55° 41.508	S 42° 56.886 W	10.0	196	3002	3008	4	2	h-	h-	x	x	-	x	x	h-		
	13:00	55° 46.614	S 42° 59.402 W	10.4	195	3294	3309	4	2	h-	h-	x	x	-	x	x	h-		
	13:30	55° 51.444	S 43° 01.853 W	9.7	195	3330	3334	4	2	h-	h-	x	x	-	x	x	h-		

Hydroscop doesn't use
→ no MS depth
04.50 m. duration



Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D. Range	Sensor operat. modus	AUX	NBS	PAR	PAR PSS	Meto	Pulse train length	Watch keeper	Remarks	
13.05.05	14:00	55° 56.546 S	43° 04.405 W	10.1	196	3395	3393	4	2	5000	Par-Pilot	x	x	x	x	x	Min			
	14:30	56° 01.538 S	43° 06.919 W	10.9	195	3291.5	3328.0	4	2	5000	"	x	x	x	x	x	"	P.G.		
	15:00	56° 06.479 S	43° 09.410 W	11.1	184	3181	3198	4	2	"	"	x	x	x	x	x	"			
	15:30							4	2	"	"	x	x	x	x	x	"			
	16:00	56° 16.333 S	43° 14.382 W	10.5	198	2751	2798	4	2	"	"	x	x	x	x	x	"			
	16:30	56° 21.029 S	43° 16.755 W	10.7	193	2535	2547	4	2	"	"	x	x	x	x	x	"			
	17:00	56° 25.792 S	43° 19.180 W	10.0	199	2494	4500	4	2	"	"	x	x	x	x	x	"			
	17:30	56° 30.682 S	43° 21.658 W	9.8	197	4013	4024	4	2	"	"	x	x	x	x	x	"			
	18:00	56° 35.414 S	43° 24.069 W	10.3	195	4393	3761	4	2	"	"	x	x	x	x	x	"			
	18:30	56° 40.743 S	43° 26.529 W	9.7	192	3784	3802	4	2	"	"	x	x	x	x	x	"			
	19:00	56° 45.033 S	43° 28.990 W	9.5	199	3748	3766	4	2	"	"	x	x	x	x	x	"			
	19:30	56° 49.666 S	43° 31.267 W	9.4	198	3792	3796	4	2	"	"	x	x	x	x	x	"			
	20:00	56° 54.050 S	43° 33.676 W	9.6	196	3957	5963	4	2	"	"	x	x	x	x	x	"			
	20:30	56° 58.674 S	43° 35.974 W	9.8	196	2800	2807	4	2	"	"	x	x	x	x	x	"			
	21:00	57° 03.229 S	43° 38.344 W	9.9	196	2164	2176	4	2	"	"	x	x	x	x	x	"			
	21:30	57° 07.906 S	43° 40.762 W	10.0	195	2951	2964	4	2	"	"	x	x	x	x	x	"			
	22:00	57° 12.684 S	43° 43.249 W	9.9	200	3069	3087	4	2	"	"	x	x	x	x	x	"			
	22:30	57° 17.462 S	43° 45.771 W	10.1	195	2929	2951	4	2	"	"	x	x	x	x	x	"			
	23:00	57° 21.705 S	43° 50.655 W	9.9	215	2610	2625	4	2	"	"	x	x	x	x	x	"			
	23:30	57° 25.809 S	43° 55.770 W	10.3	209	2559	2572	4	2	"	"	x	x	x	x	x	"			
	14.05.05	24:00	57° 29.936 S	44° 00.946 W	9.8	210	2619	2633	4	2	"	"	x	x	x	x	x	"		
		24:30	57° 32.916 S	44° 04.135 W	9.3	244	2809	2823	4	2	"	"	x	x	x	x	x	"	P.G.	
		1:00	57° 34.888 S	44° 04.943 W	9.3	241	2893	2906	4	2	"	"	x	x	x	x	x	"		
1:30		57° 36.920 S	44° 22.893 W	9.8	245	2960	2975	4	2	"	"	x	x	x	x	x	"			



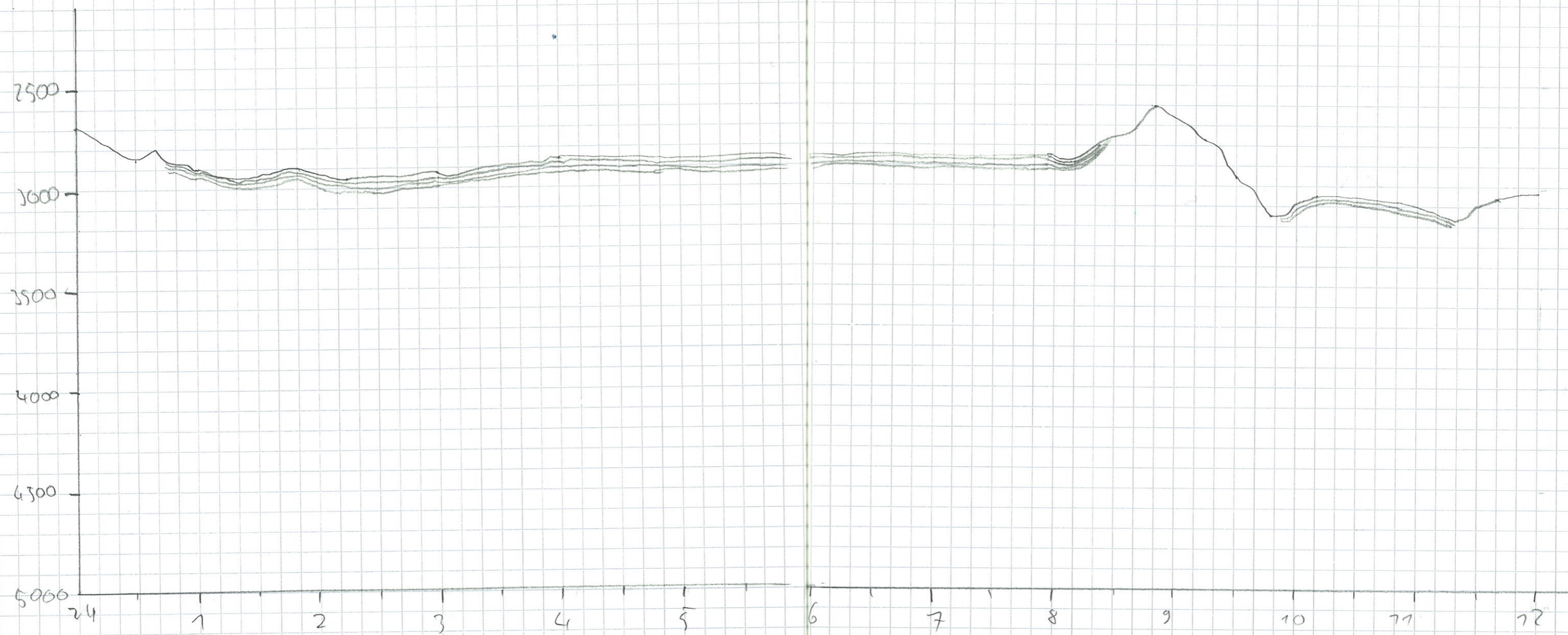
00.09 - Par state switched off

Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D.Range	Sens. Operat. Mod.	AUX	NBS	PAR	PAR PSS	Metz	Pulse Length	Watch keeper	Remarks
14.05.05	2:00	57° 38.977 S	44° 31.010 W	9.1	246	2946	2961	4	2	Par-Pilot	5000	x	x	x	x	x	Min		
	2:30	57° 41.436 S	44° 32.281 W	9.6	139	2952	2956	4	2	5000	Par-Pilot	x	x	x	x	x	Min	P.G	
	3:00	57° 45.777 S	44° 26.937 W	9.5	747	2936	2936	hr	hr	hr	hr	x	x	x	x	x	"		
	3:30	57° 49.628 S	44° 21.605 W	9.5	145	2893	2895	4	4	4	4	x	x	x	x	x	"		
	4:00																		
	4:30																		
	5:00																		
	5:30																		
	6:00																		
	6:30																		
	7:00																		
	7:30																		
	8:00	57° 57.677 S	44° 09.402 W	9.4	115	2878	2876	4	2	5000	Par-Pilot	x	x	x	x	x	Min		
	8:30	57° 59.993 S	44° 01.579 W	10.0	120	2807	2806	4	4	"	"	x	x	x	x	x	"		
	9:00	58° 02.526 S	43° 53.752 W	9.7	111	2685	2687	4	4	"	"	x	x	x	x	x	"		
	9:30	58° 05.113 S	43° 45.160 W	9.8	121	2973	2986	4	4	"	"	x	x	x	x	x	"		
	10:00	58° 07.762 S	43° 37.208 W	10.4	118	3059	3073	4	4	"	"	x	x	x	x	x	"		
	10:30	58° 10.329 S	43° 29.793 W	9.4	122	3074	3089	4	4	"	"	x	x	x	x	x	"		
	11:00	58° 12.917 S	43° 21.860 W	10.3	127	3119	3133	4	2	Par-Pilot	5000	x	x	x	x	x	Min		
	11:30	58° 16.241 S	43° 14.041 W	8.8	180	3099	3072	4	2	hr	hr	x	x	x	x	x	hr	P.G	
	12:00	58° 20.784 S	43° 07.022 W	9.2	180	3042	3030	4	2	Par-Pilot	5000	x	x	x	x	x	hr		
	12:30	58° 25.310 S	43° 16.994 W	9.2	186	3168	3180	4	2	hr	hr	x	x	x	x	x	hr		
	13:00	58° 29.938 S	43° 17.011 W	9.7	177	3114	3128	4	2	hr	hr	x	x	x	x	x	hr		
	13:30	58° 34.380 S	43° 07.009 W	8.8	180	2934	2958	4	hr	hr	hr	x	x	x	x	x	hr		

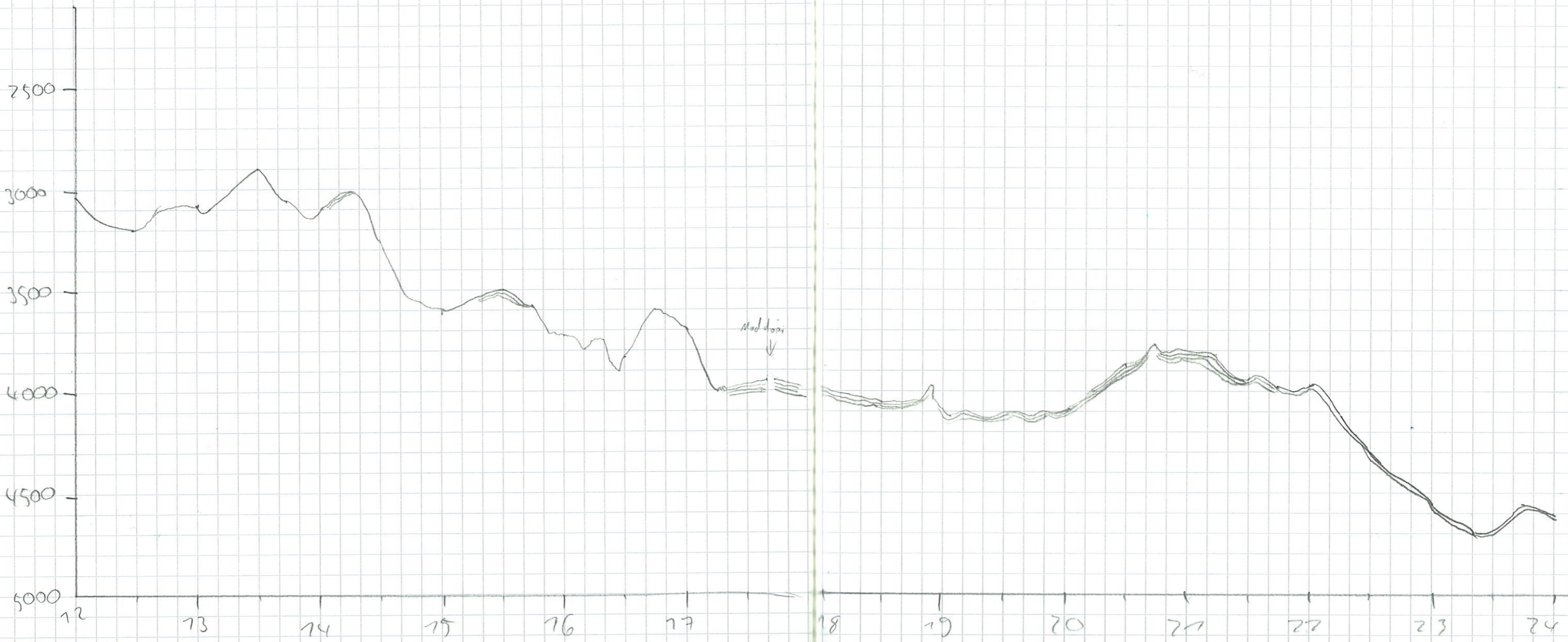
Boat

at 4.25 station

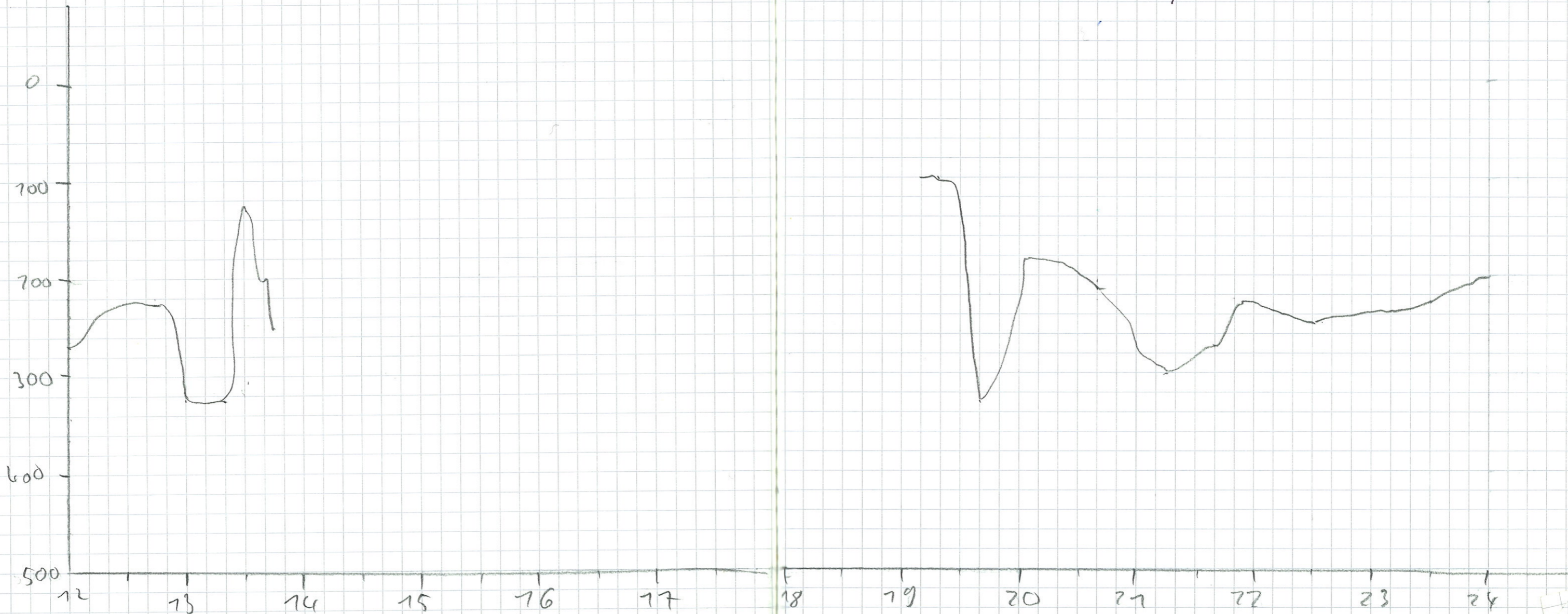
Station End
7.49 UTC



Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth MS	Freq.	Pulse	D. Range	Sens. operat. mod.	AUX	NRBS	PAR	PAE PSS	Meta	Pulse train length	Watch keeper	Remarks
14.05.05	14:00	58° 39.074 S	43° 17.008 W	8.9	180	3106	3119	4	2	5000	Par-Pilot	x	x	x	x	x	Min.		
	14:30	58° 43.563 S	43° 17.006 W	9.5	179	3220	3231	4	2	5000	tr	x	x	x	x	x	tr	PG.	
	15:00	58° 48.204 S	43° 16.983 W	8.7	180	3618	3625	4	2	"	"	x	x	x	x	x	tr		
	15:30	58° 52.555 S	43° 17.004 W	9.1	178	3495	3511	"	"	"	"	x	x	x	x	x	"		
	16:00	58° 57.211 S	43° 16.998 W	9.3	178	3707	3747	4	2	"	"	x	x	x	x	x	"		
	16:30	59° 01.665 S	43° 16.989 W	9.2	179	3105	3236	4	2	"	"	x	x	x	x	x	"		
	17:00	59° 06.073 S	43° 17.001 W	9.2	180	3727	3781	"	"	"	"	x	x	x	x	x	"		
	17:30	59° 10.598 S	43° 16.992 W	9.0	182	3967	3986	"	"	"	"	x	x	x	x	x	"		
	18:00	59° 14.929 S	43° 16.991 W	9.0	183	4003	4070	"	"	"	"	x	x	x	x	x	"		17.40 Structure → 1740 D1112, E
	18:30	59° 19.409 S	43° 16.991 W	9.1	179	4048	4065	"	"	"	"	x	x	x	x	x	"		
	19:00	59° 23.007 S	43° 17.004 W	9.1	178	4075	4087	"	"	"	"	x	x	x	x	x	"		
	19:30	59° 26.650 S	43° 22.460 W	9.1	241	4124	4147	"	"	"	"	x	x	x	x	x	"		
	20:00	59° 28.968 S	43° 30.084 W	9.2	238	4121	4131	"	"	"	"	x	x	x	x	x	"		
	20:30	59° 31.327 S	43° 37.982 W	9.1	239	3877	3907	"	"	"	"	x	x	x	x	x	"		
	21:00	59° 33.727 S	43° 45.824 W	9.1	241	3922	3941	"	"	"	"	x	x	x	x	x	"		
	21:30	59° 36.070 S	43° 53.617 W	9.3	238	3938	3949	"	"	"	"	x	x	x	x	x	"		
	22:00	59° 38.740 S	44° 02.127 W	9.0	194	4074	4034	"	"	"	"	x	x	x	x	x	"		
	22:30	59° 43.217 S	44° 11.113 W	9.0	186	4339	4348	"	"	4000	"	x	x	x	x	x	Mod		
	23:00	59° 47.944 S	44° 21.237 W	9.0	185	4852	4869	"	"	"	"	x	x	x	x	x	"		
	23:30	59° 50.937 S	44° 05.375 W	6.9	282	4697	4680	4	2	"	"	x	x	x	x	x	"		
15.05.05	24:00	59° 49.244 S	44° 03.397 W	6.3	132	4627	4608	4	2	"	"	x	x	x	x	x	"	PG.	
	24:30	59° 51.288 S	43° 59.996 W	6.7	60.9	4651	4624	4	2	"	"	x	x	x	x	x	"		
	1:00	59° 49.751 S	44° 02.499 W	6.2	222	4631	4649	4	2	"	"	x	x	x	x	x	"		
	1:30	59° 53.905 S	44° 03.470 W	9.5	181	4725	4739	4	2	"	"	x	x	x	x	x	"		



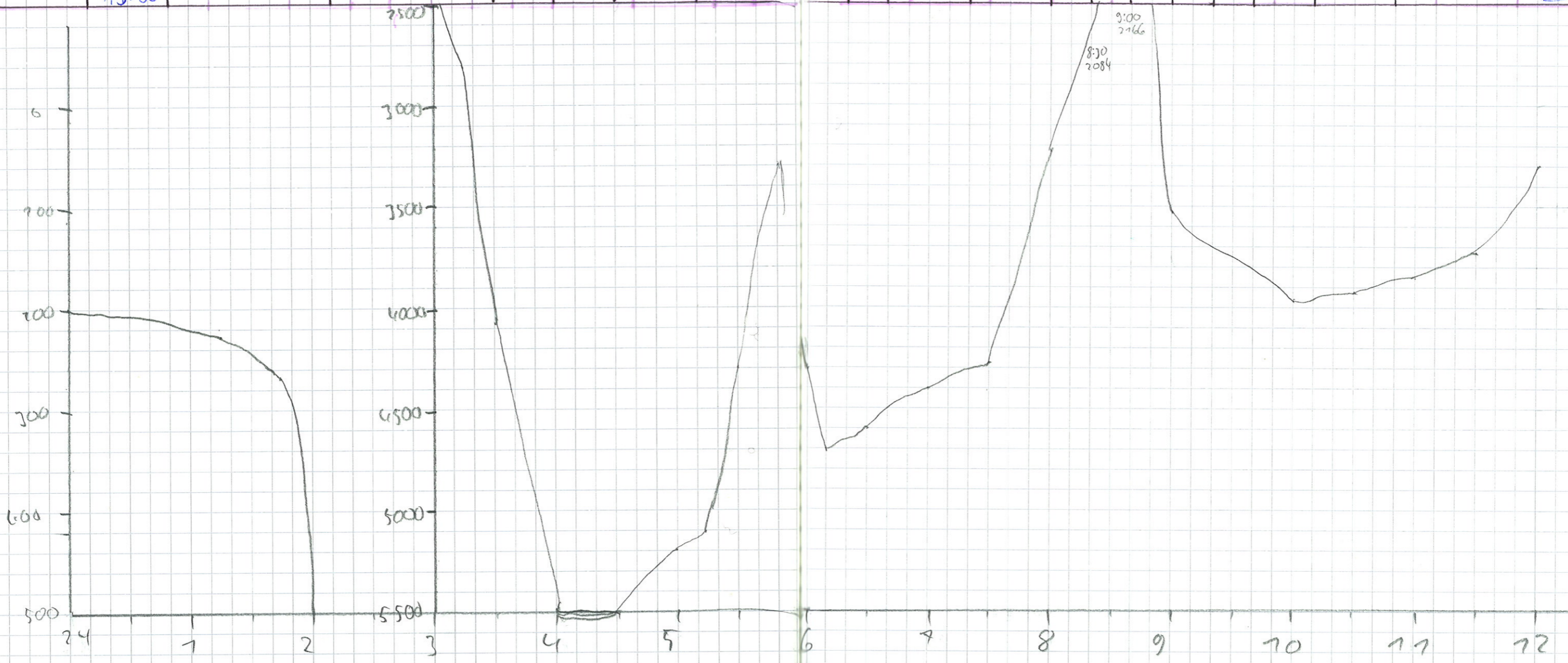
Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq.	Pulse	D. Range	Sensor Operet. Mod.	AUX	NBS	PAR	PAR PSS	Meti	Pulse train length	Watch Keeper	Remarks	
142																				143
15.05.05	14:00																			13.47 - Signy Isl.
	14:30																			
	15:00																			
	15:30																			
	16:00																			
	16:30																			
	17:00																			
	17:30																			
	18:00																			
	18:30																			
	19:00	60° 42.247 S	45° 32.507 W	7.9	176	139	135	4	2	500	PAR	x	x	x	x	-	Min	Boh	18.53 - Station End	
	19:30	60° 45.015 S	45° 29.770 W	8.9	173	338	344	4	2	500	4	x	x	x	x	x	-			
	20:00	60° 48.374 S	45° 27.767 W	9.0	136	189	190	4	2	500	2	x	x	x	x	x	-			
	20:30	60° 51.464 S	45° 17.987 W	8.9	99	2	237	4	2	500	2	x	x	x	x	x	-			
	21:00	60° 53.368 S	45° 11.389 W	7.1	139	1	138	4	2	500	2	x	x	x	x	x	-			
	21:30	60° 54.949 S	45° 2.574 W	9.5	86	306	247	4	2	500	2	x	x	x	x	x	-			
	22:00	60° 54.679 S	44° 57.012 W	9.4	77	237	239	4	2	500	2	x	x	x	x	x	-			
	22:30	60° 54.133 S	44° 43.140 W	10.1	32	253	254	4	2	500	2	x	x	x	x	x	-			
	23:00	60° 53.758 S	44° 33.737 W	9.1	70.1	280.5	282.2	4	2	500	2	x	x	x	x	x	-			
	23:30	60° 52.424 S	44° 24.106 W	8.4	71.3	226	226	4	2	500	2	x	x	x	x	x	Min			
16.05.05	24:00	60° 52.860 S	44° 12.000 W	8.3	88.9	206	206	4	2	nr	2	x	x	x	x	x	-	P.G.		
	24:30	60° 51.687 S	44° 02.315 W	10.4	69	213.4	212.6	4	2	nr	2	x	x	x	x	x	-			
	1:00	60° 50.374 S	43° 51.311 W	10.5	63.3	202.9	222.4	4	2	nr	2	x	x	x	x	x	-			
	1:30	60° 45.724 S	43° 45.806 W	10.4	28.0	255	254	4	2	nr	2	x	x	x	x	x	-			



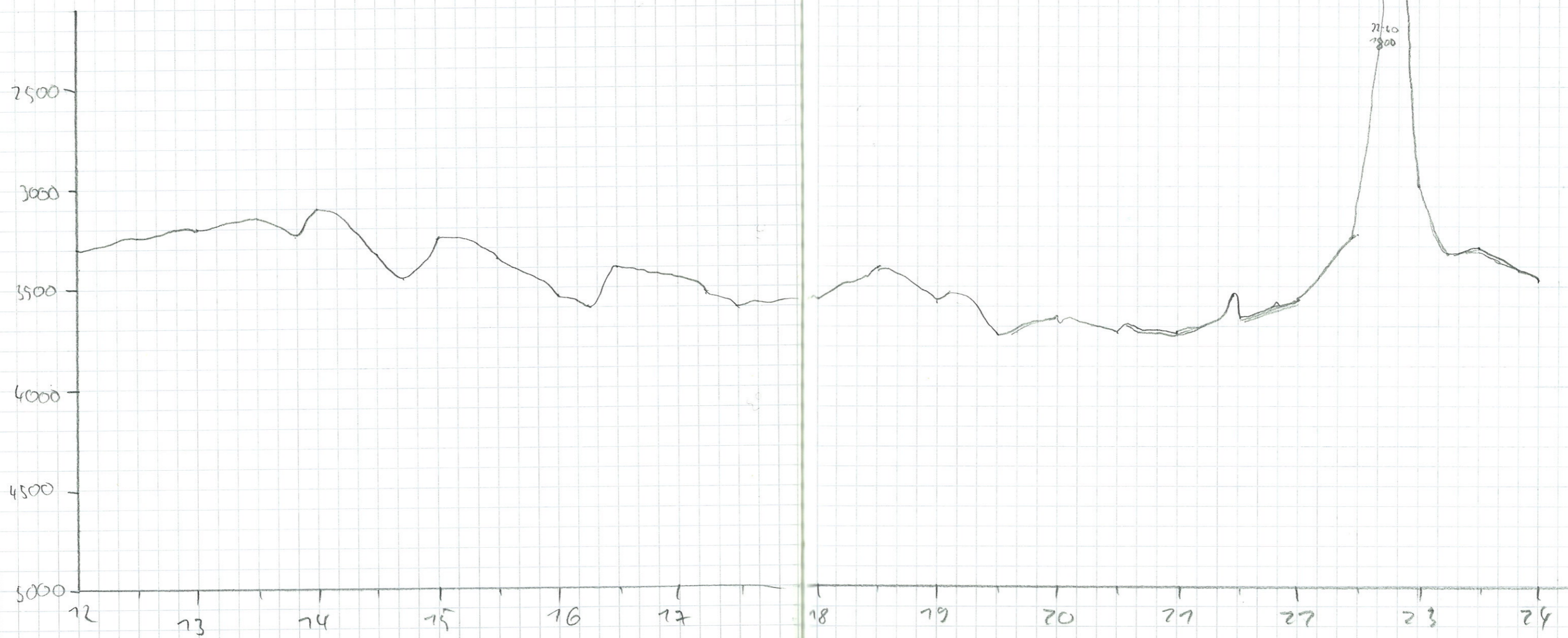
Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth KS	Freq.	Pulse	D. Range	Sensor operat. mod.	AUX	NBS	PAR	PAR PSS	Metd	Pulse train length	Watch keeper	Remarks
16.05.05	2:00	60° 41.012 S	43° 40.776 W	10.9	29.3	615.3	606	4	2	1000	PAR	x	x	x	x	x	4		
	2:30	60° 36.148 S	43° 36.284 W	10.4	26.9	1832.4	1821	4	2	5000	Br-Pilot	x	x	x	x	x	4	P.g.	
	3:00	60° 31.710 S	43° 31.956 W	8.9	31.0	2258	2285	4	2	5000	-w-	x	x	x	x	x	4		2:32-2000-NBS-PAR
	3:30																		
	4:00																		
	4:30																		
	5:00																		
	5:30	60° 05.153 S	43° 08.170 W	14.3	32	4400	4430	4	2	"	"	x	x	x	x	x	"		
	6:00	59° 59.637 S	42° 58.826 W	14.6	51	4260	4130	4	2	"	"	x	x	x	x	x	"		
	6:30	59° 53.145 S	42° 57.159 W	14.4	26	4589	4612	4	2	"	"	x	x	x	x	x	"		
	7:00	59° 46.715 S	42° 45.490 W	14.5	27	4379	4408	4	2	"	"	x	x	x	x	x	"		
	7:30	59° 40.745 S	42° 39.028 W	14.4	29	4307	4276	4	2	"	"	x	x	x	x	x	"		
	8:00	59° 33.729 S	42° 34.425 W	14.4	14	3229	3239	4	2	"	"	x	x	x	x	x	"		
	8:30	59° 26.668 S	42° 31.726 W	14.5	10	2013	2084	4	2	"	"	x	x	x	x	x	"		
	9:00	59° 19.563 S	42° 28.912 W	14.5	11	2149	2177	4	2	"	"	x	x	x	x	x	"		
	9:30	59° 12.583 S	42° 26.172 W	14.7	11	3031	3071	4	2	"	"	x	x	x	x	x	"		
	10:00	59° 5.658 S	42° 22.787 W	14.3	23	3977	3986	4	2	"	"	x	x	x	x	x	"		
	10:30	58° 59.057 S	42° 16.795 W	14.5	27	3929	3948	4	2	"	"	x	x	x	x	x	"		
	11:00	58° 52.540 S	42° 10.871 W	14.7	23	3856	3876	4	2	"	"	x	x	x	x	x	"		
	11:30	58° 45.793 S	42° 04.600 W	14.8	23.6	3712	3726	4	2	"	"	x	x	x	x	x	"		
	12:00	58° 39.231 S	42° 58.861 W	14.4	24.7	3300	330.7	4	2	"	"	x	x	x	x	x	"	P.g.	12:57 Program restart.
	12:30	58° 32.740 S	41° 53.047 W	14.1	26	3237	3249	4	2	"	"	x	x	x	x	x	"		
	13:00																		
	13:30																		

2:32-2000-NBS-PAR
 2:38-1000-PAR
 2:43-2000-NBS-PAR
 2:53-5000-PAR-PILOT

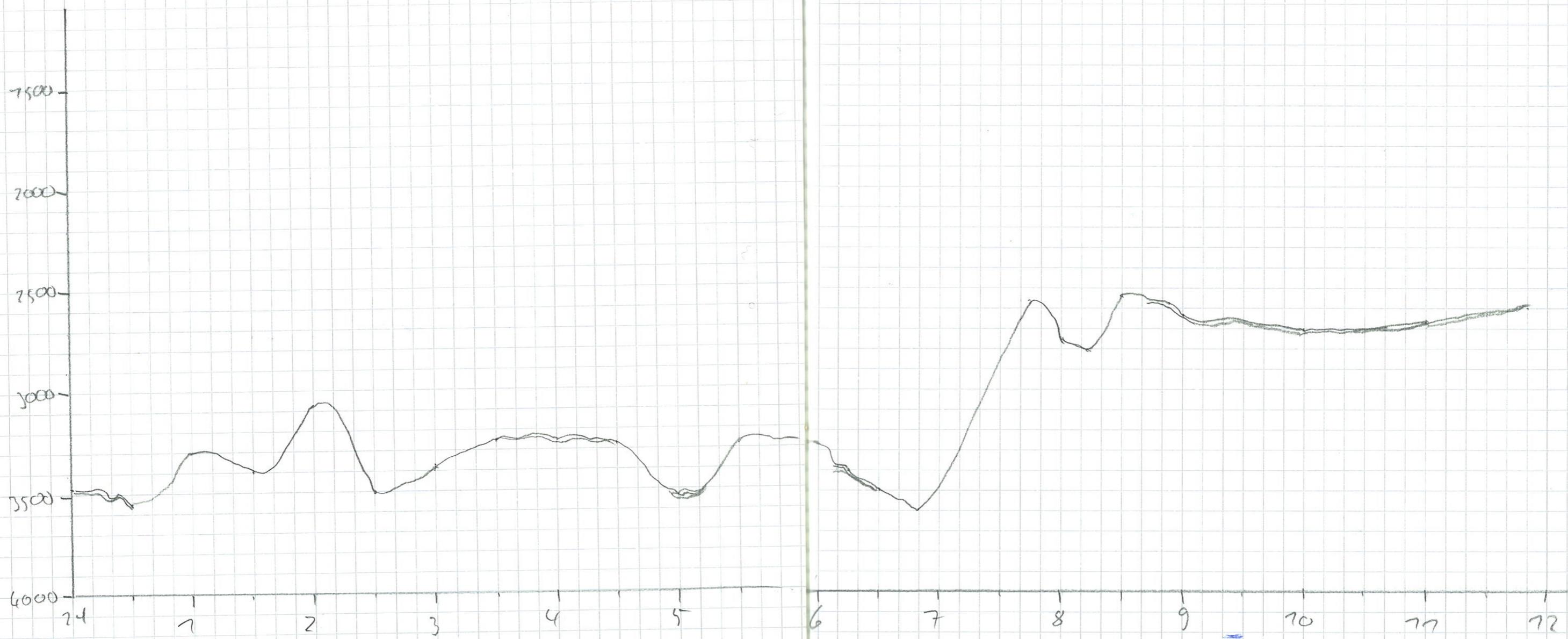
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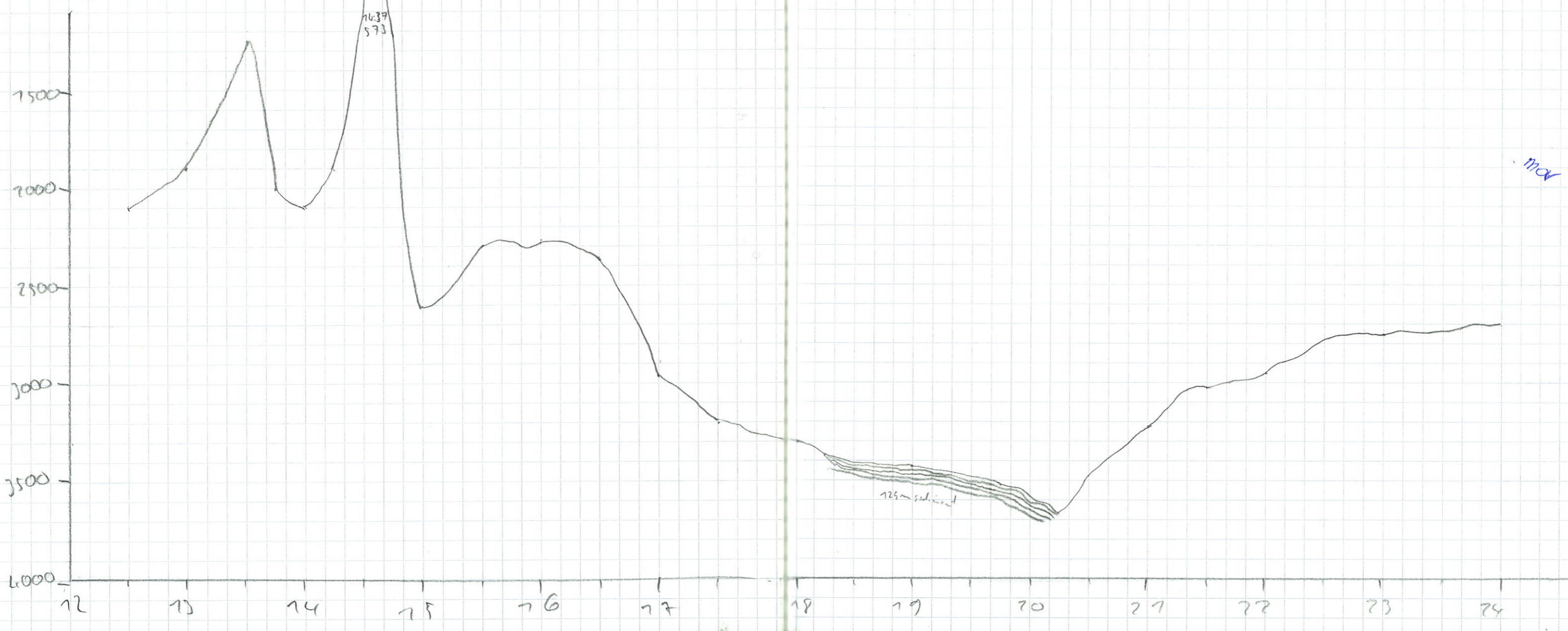
Date	Time	Lat/Long	Speed	Course	Depth PS	Depth US	Freq.	Pulse	D. Range	Sensor Operat. Mod.	AUX	RBS	PAD	PAR PS3	Meta	Pulse Train Length	Watch keeper	Remarks	
16.05.05	14:00	58° 13.403 S 41° 36.004 W	14.3	23.3	3095	3106	4	2	5000	Par-Pilot	x	x	x	x	x	4			
	14:30	58° 06.884 S 41° 30.299 W	14.3	18.1	3325	3332	4	2	"	"	x	x	x	x	x	4			
	15:00	58° 00.549 S 41° 24.811 W	14.4	36	3251	3273	4	2	"	"	x	x	x	x	x	4		P.G.	
	15:30	57° 53.577 S 41° 23.997 W	14.5	0.4	3357	3365	4	2	"	"	x	x	x	x	x	4			
	16:00	57° 46.155 S 41° 23.990 W	14.6	359	3539	3544	4	2	"	"	x	x	x	x	x	4			
	16:30	57° 39.026 S 41° 23.990 W	14.4	359	3476	3470	4	2	"	"	x	x	x	x	x	4			
	17:00	57° 31.700 S 41° 23.995 W	14.7	78	3478	3443	4	2	"	"	x	x	x	x	x	4			
	17:30	57° 24.702 S 41° 23.994 W	14.1	115	3607	3615	4	2	"	"	x	x	x	x	x	4			
	18:00	57° 17.655 S 41° 23.974 W	14.0	0.4	3567	3566	4	2	"	"	x	x	x	x	x	4			
	18:30	57° 10.695 S 41° 23.993 W	13.9	0.5	3471	3472	4	2	"	"	x	x	x	x	x	4			
	19:00	57° 3.678 S 41° 23.976 W	13.9	7.8	3527	3542	4	2	"	"	x	x	x	x	x	4			
	19:30	56° 57.770 S 41° 24.004 W	14.4	358	3724	3737	4	2	"	"	x	x	x	x	x	4			
	20:00	56° 49.861 S 41° 24.099 W	14.9	0.3	3663	3658	4	2	"	"	x	x	x	x	x	4			
	20:30	56° 42.681 S 41° 24.002 W	14.7	358	3739	3757	4	2	"	"	x	x	x	x	x	4			
	21:00	56° 35.298 S 41° 24.071 W	14.4	0.7	3747	3759	4	2	"	"	x	x	x	x	x	4			
	21:30	56° 28.065 S 41° 23.973 W	14.2	0.2	3650	3696	4	2	"	"	x	x	x	x	x	4			
	22:00	56° 20.931 S 41° 23.987 W	14.1	0.2	3550	3568	4	2	"	"	x	x	x	x	x	4			
	22:30	56° 13.893 S 41° 24.003 W	14.4	0.6	3238	3257	4	2	"	"	x	x	x	x	x	4			
	23:00	56° 6.841 S 41° 24.064 W	14.7	2.7	2954	3025	4	2	"	"	x	x	x	x	x	4			
	23:30	55° 59.802 S 41° 24.008 W	14.0	2.5	3301	3315	4	2	"	"	x	x	x	x	x	4			
	17.05.05	24:00	55° 52.831 S 41° 24.000 W	14.1	1.5	3492	3480	4	2	"	"	x	x	x	x	x	4		
		24:30	55° 45.811 S 41° 23.993 W	13.8	2.0	3562	3549	4	2	"	"	x	x	x	x	x	4		P.G.
		1:00	55° 38.858 S 41° 23.995 W	13.7	1.0	3325	3307	4	2	"	"	x	x	x	x	x	4		
1:30	55° 31.892 S 41° 23.996 W	14.1	1.9	3406	3395	4	2	"	"	x	x	x	x	x	4				



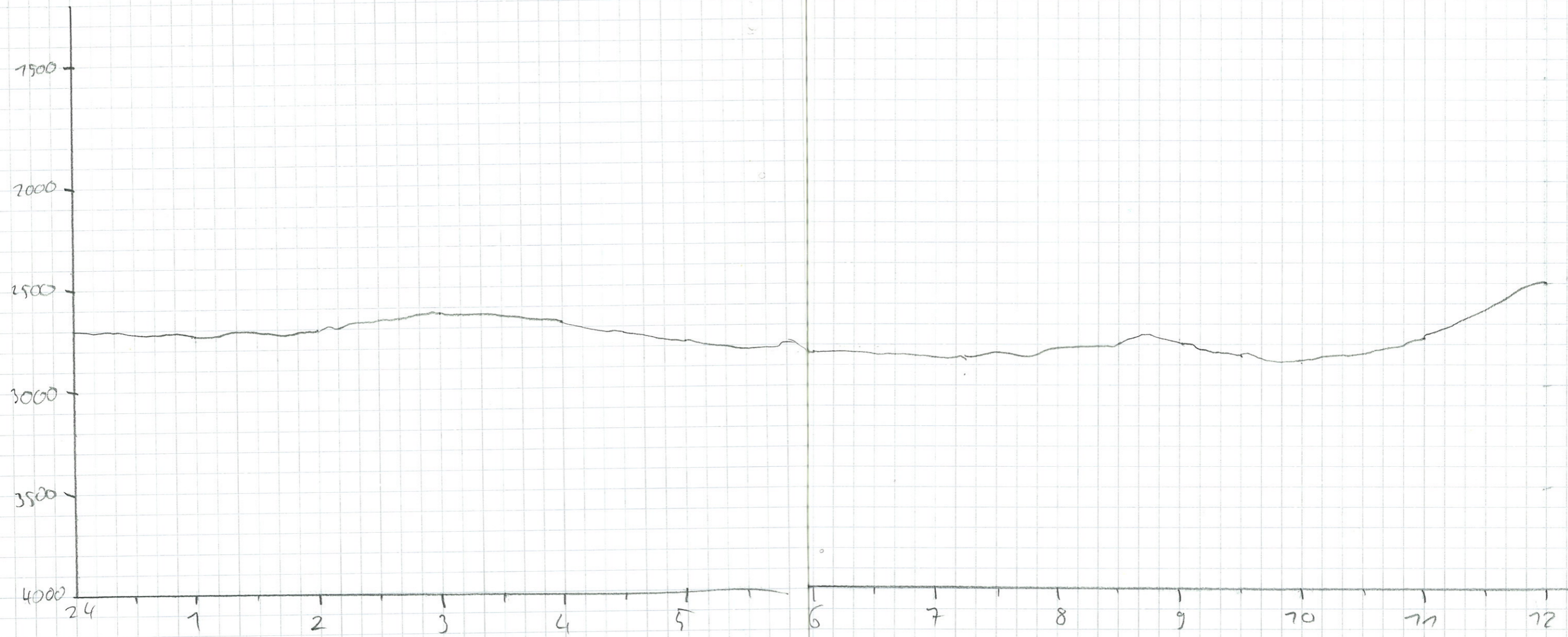
Date	Time	Latitude	Longitude	Speed	Course	Depth #S	Depth #S	Freq.	Pulse	Rem's Operat Mod.	D. Range	AUX	MBS	PAR	PAR PS3	Meta	Pulse train length	Watch keeper	Remarks
17.05.05	2:00	55° 24.869 S	41° 24.001 W	14.1	359	3065	3077	4	2	Par-Pilot	5000	x	x	x	x	x	Min		
	2:30	55° 17.890 S	41° 24.000 W	14.0	359	3602	3585	L	L	L	L	x	x	x	x	x	L	P.G.	
	3:00	55° 10.917 S	41° 24.000 W	13.8	1.9	3395	3375.7	T	T	T	T	x	x	x	x	x	T		
	3:30	55° 03.651 S	41° 23.999 W	14.0	0.8	3244	3255	C	2	PAR Pilot	5000	x	x	x	x	x	10m		
	4:00	54° 57.511 S	41° 23.999 W	14.0	1.4	3255	3266	C	2	"	"	x	x	x	x	x	"		
	4:30	54° 50.557 S	41° 24.001 W	14.6	387	3270	3308	C	2	"	"	x	x	x	x	x	"		
	5:00	54° 43.361 S	41° 24.011 W	14.6	359	3549	3564	C	2	"	"	x	x	x	x	x	"		
	5:30	54° 37.606 S	41° 24.032 W	14.8	305	3265	3282	C	2	"	"	x	x	x	x	x	"		
	6:00	54° 32.063 S	41° 27.074 W	13.8	309	3347	3367	C	2	"	"	x	x	x	x	x	"		
	6:30	54° 28.642 S	41° 46.067 W	13.0	307	3503	3519	C	2	"	"	x	x	x	x	x	"		
	7:00	54° 24.764 S	41° 54.743 W	12.5	377	3577	3602	C	2	"	"	x	x	x	x	x	"		
	7:30	54° 19.700 S	42° 03.379 W	12.2	376	3741	3871	C	2	"	"	x	x	x	x	x	"		
	8:00	54° 15.705 S	42° 12.097 W	12.5	377	2769	2767	C	2	"	"	x	x	x	x	x	"		
	8:30	54° 10.708 S	42° 20.706 W	13.2	311.377	2550	2624	C	2	"	"	x	x	x	x	x	"		
	9:00	54° 6.218 S	42° 29.106 W	13.5	313	2626	2671	C	2	"	"	x	x	x	x	x	"		
	9:30	53° 57.717 S	42° 46.788 W	14.0	313	2696	2708	C	2	"	"	x	x	x	x	x	"		
	10:00	53° 52.477 S	42° 55.652 W	14.7	313	2708	2696	C	2	"	"	x	x	x	x	x	"		
	10:30	53° 52.477 S	42° 55.652 W	14.3	312	2726	2772	C	2	"	"	x	x	x	x	x	"		
	11:00	53° 42.925 S	43° 13.865 W	14.1	312	2578	2588	C	2	"	"	x	x	x	x	x	"		
	12:00	53° 33.408 S	43° 31.451 W	14.1	313	2081	2088	C	2	"	"	x	x	x	x	x	"	P.G.	12.30 program restarted
	12:30	53° 33.408 S	43° 31.851 W	14.1	313	2081	2088	C	2	"	"	x	x	x	x	x	"		(11.00 program studied)
	13:00	53° 28.764 S	43° 40.733 W	14.7	309	1888	1871	C	2	"	"	x	x	x	x	x	"		no data between 11.51-12.00
	13:30	53° 23.920 S	43° 49.926 W	14.7	317	1403	1382	C	2	"	"	x	x	x	x	x	"		



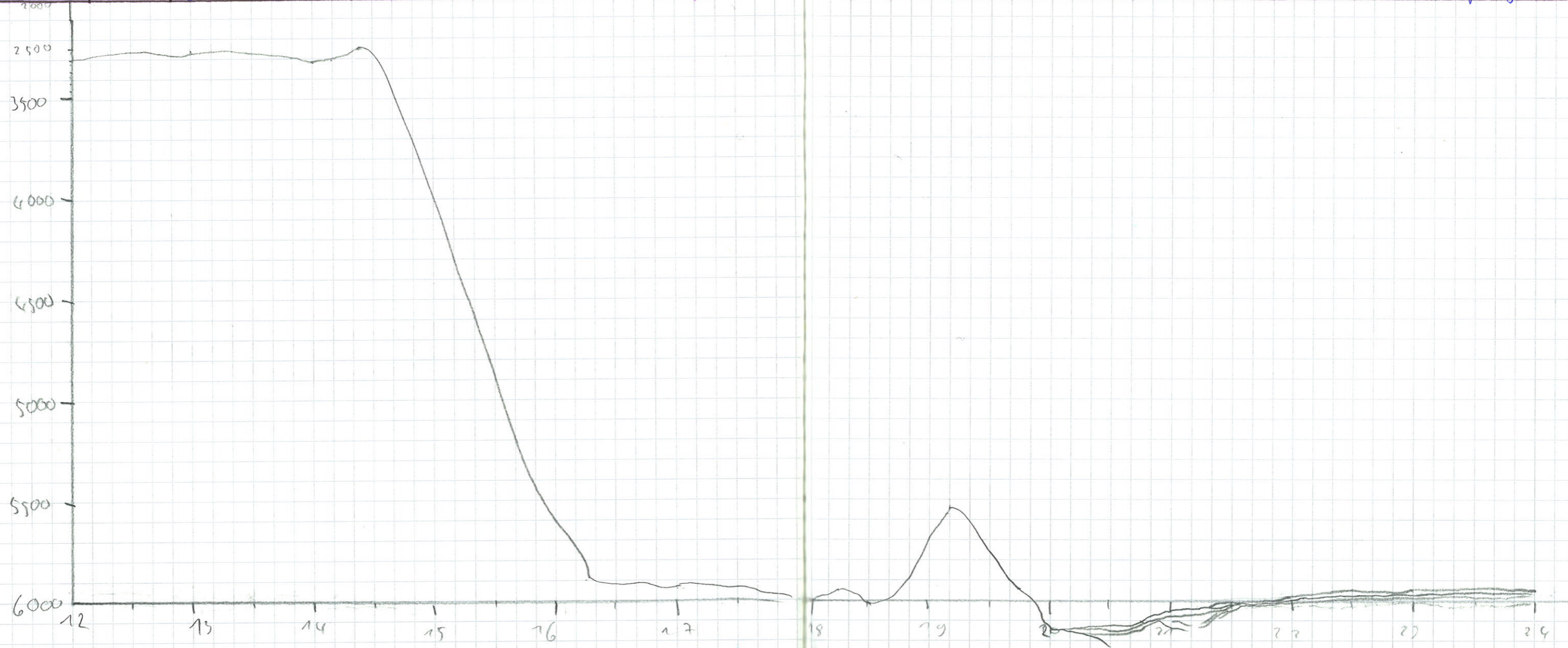
Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth MS	Req.	Pulse	D. Range	Trans. operat. mod.	AUX	NBS	PAR	PAR PSS	Meta	Pulse trans. length	Watch keeper	Remarks
17.05.05	14:00	53° 19.119 S	43° 58.991 W	14.1	312	2051	2111	4	2	5000	Par-Pilot	x	x	x	x	x	Min.		
	14:30	53° 14.355 S	44° 07.972 W	14.4	309	2085	2151	4	2	"	"	x	x	x	x	x	"	P.G.	14.31 PAR - 1000m
	15:00	53° 09.518 S	44° 17.018 W	14.5	313	2067	2014	4	2	"	"	x	x	x	x	x	"		
	15:30	53° 04.814 S	44° 25.771 W	14.2	308	2201	2306	4	2	"	"	x	x	x	x	x	"		
	16:00	53° 00.153 S	44° 34.540 W	13.8	312	2274	2370	4	2	"	"	x	x	x	x	x	"		
	16:30	52° 55.467 S	44° 43.333 W	14.3	311	2380	2365	4	2	"	"	x	x	x	x	x	"		
	17:00	52° 50.764 S	44° 52.092 W	14.2	312	2972	2904	4	2	"	"	x	x	x	x	x	"		
	17:30	52° 46.023 S	45° 0.893 W	14.7	309	2200	3211	4	2	"	"	x	x	x	x	x	"		
	18:00	52° 41.395 S	45° 9.537 W	14.0	312	3373	3322	4	2	"	"	x	x	x	x	x	"		
	18:30	52° 36.705 S	45° 18.227 W	14.5	313	3378	3398	4	2	"	"	x	x	x	x	x	"		
	19:00	52° 31.920 S	45° 27.092 W	14.3	309	3421	3438	4	2	"	"	x	x	x	x	x	"		
	19:30	52° 27.074 S	45° 36.091 W	14.7	310	3474	3505	4	2	"	"	x	x	x	x	x	"		
	20:00	52° 22.200 S	45° 45.086 W	14.5	310	3605	3613	4	2	"	"	x	x	x	x	x	"		
	20:30	52° 17.385 S	45° 53.945 W	14.5	309	3421	3486	4	2	"	"	x	x	x	x	x	"		
	21:00	52° 12.629 S	46° 2.699 W	14.2	309	3206	3224	4	2	"	"	x	x	x	x	x	"		
21:30	52° 08.039 S	46° 11.142 W	14.0	311	3032	3042	4	2	"	"	x	x	x	x	x	"			
22:00	52° 3.694 S	46° 19.656 W	13.7	310	2994	2969	4	2	"	"	x	x	x	x	x	"			
22:30	51° 59.618 S	46° 27.615 W	13.6	310	2829	2843	4	2	"	"	x	x	x	x	x	"			
23:00	51° 54.498 S	46° 35.941 W	13.5	309	2757	2762	4	2	"	"	x	x	x	x	x	"			
23:30	51° 49.922 S	46° 44.218 W	14.0	312	2709	2721	4	2	"	"	x	x	x	x	x	"			
18.05.05	24:00	51° 45.252 S	46° 5.770 W	14.1	310	2708	2721	4	2	"	"	x	x	x	x	x	"		
	24:30	51° 45.315 S	46° 52.632 W	14.2	310	2725	2710	4	2	"	"	x	x	x	x	x	"		
	1:00	51° 35.055 S	47° 10.161 W	15.0	309	2719	2735	4	2	"	"	x	x	x	x	x	"		
	1:30	51° 30.764 S	47° 19.050 W	14.7	313	2716	2725	4	2	"	"	x	x	x	x	x	"		



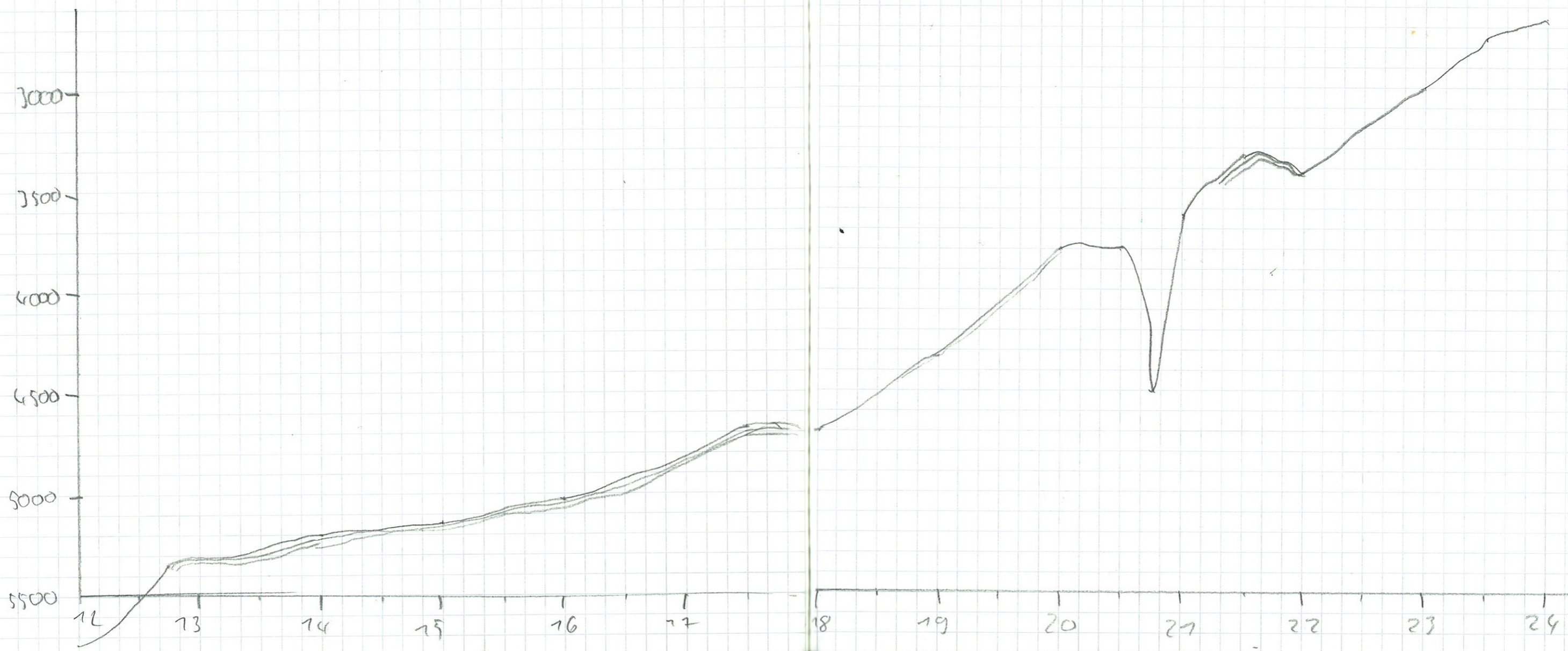
Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq	Pulse	D. Range	Sens. operat. mod.	AVX	NBS	PAR	PAR PS3	Met	Pulle mark receipt	Watch keeper	Remarks
18.05.05	2:00	51° 25.750 S	47° 28.109 W	15	312	2703	2715	4	2	5000	Par-Pilot	x	x	x	x	x	Mit.		
	2:30	51° 20.746 S	47° 37.086 W	15.1	311	2670	2678	4	2	—	—	x	x	x	x	x	—	P.G.	
	3:00	51° 15.867 S	47° 45.914 W	14.7	311	2620	2630	4	2	—	—	x	x	x	x	x	—		
	3:30	51° 10.310 S	47° 54.664 W	14.7	301	2637	2646	4	2	—	—	x	x	x	x	x	—		
	4:00	51° 06.155 S	48° 00.417 W	16	280	2680	2690	4	2	—	—	x	x	x	x	x	—		
	4:30	51° 02.528 S	48° 09.770 W	14.8	311	2715	2740	4	2	—	—	x	x	x	x	x	—		
	5:00	50° 57.602 S	48° 11.543 W	14.9	313	2710	2788	4	2	—	—	x	x	x	x	x	—		
	5:30	50° 52.617 S	48° 27.293 W	14.8	309	2825	2840	4	2	—	—	x	x	x	x	x	—		
	6:00	50° 47.779 S	48° 36.021 W	14.5	310	2831	2843	4	2	—	—	x	x	x	x	x	—		
	6:30	50° 42.971 S	48° 44.580 W	14.5	310	2837	2843	4	2	—	—	x	x	x	x	x	—		
	7:00	50° 38.232 S	48° 52.821 W	14.2	313	2830	2844	4	2	—	—	x	x	x	x	x	—		
	7:30	50° 33.525 S	49° 01.225 W	13.9	310	2832	2843	4	2	—	—	x	x	x	x	x	—		
	8:00	50° 28.879 S	49° 09.607 W	14.7	311	2813	2826	4	2	—	—	x	x	x	x	x	—		
	8:30	50° 24.243 S	49° 12.560 W	14.7	313	2787	2804	4	2	—	—	x	x	x	x	x	—		
	9:00	50° 19.600 S	49° 25.730 W	14.0	313	2777	2792	4	2	—	—	x	x	x	x	x	—		
	9:30	50° 15.050 S	49° 37.715 W	13.4	313	2863	2877	4	2	—	—	x	x	x	x	x	—		
	10:00	50° 10.517 S	49° 41.604 W	13.7	312	2855	2857	4	2	—	—	x	x	x	x	x	—		
	10:30	50° 06.084 S	49° 49.375 W	13.3	311	2869	2859	4	2	—	—	x	x	x	x	x	—		
	11:00	50° 01.684 S	49° 57.073 W	12.0	312	2786	2774	4	2	—	—	x	x	x	x	x	—		
	11:30	49° 57.268 S	50° 04.590 W	12.4	313	2672	2659	4	2	—	—	x	x	x	x	x	—		
	12:00	49° 52.931 S	50° 11.914 W	13.2	312	2509	2523	4	2	—	—	x	x	x	x	x	—	P.G.	
	12:30	49° 48.496 S	50° 18.335 W	13.2	309	2503	2513	4	2	—	—	x	x	x	x	x	—		
	13:00	49° 44.523 S	50° 26.012 W	11.3	313	2543	2543	4	2	—	—	x	x	x	x	x	—		
	13:30	49° 40.597 S	50° 32.526 W	10.6	310	2584	2596	4	2	—	—	x	x	x	x	x	—		



Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth HS	Freq	Pulse	D. Range	Sens operat wood.	AUX	NBS	PAR	PAR PS3	Meta	Pulle +rein length	Watch weeper	Remarks
18.05.05	14:00	49° 36.680	S 50° 39.086	W 11.9	315	2604	2615	4	2	5000	Par-Pilot	x	x	x	x	x	Min.		
	14:30	49° 32.980	S 50° 45.267	W 11.7	316	2566	2572	4	2	"	"	x	x	x	x	x	"	P.G.	
	15:00	49° 29.176	S 50° 51.553	W 10.4	313	2647	2657	4	2	"	"	x	x	x	x	x	"		
	15:30	49° 25.541	S 50° 57.608	W 11.4	315	4818	4824	4	2	"	"	x	x	x	x	x	"		
	16:00	49° 21.690	S 51° 03.910	W 10.1	312	5868	5873	4	2	"	"	x	x	x	x	x	"		
	16:30	49° 18.433	S 51° 09.422	W 9.4	308	5957	5970	4	2	"	"	x	x	x	x	x	"		
	17:00																		
	17:30																		
	18:00																		
	18:30																		
	19:00	49° 0.293	S 51° 34.396	W 9.8	315	6122	5919	4	2	10000	"	x	x	x	x	x	Mod		
	19:30	48° 56.685	S 51° 45.377	W 10.9	313	5747	5804	4	2	10000	"	x	x	x	x	x	"		
	20:00	48° 52.955	S 51° 57.492	W 10.7	312	6144	6161	4	2	10000	"	x	x	x	x	x	"		
	20:30	48° 49.758	S 51° 57.660	W 11.7	314	6147	6153	4	2	"	"	x	x	x	x	x	"		
	21:00	48° 45.219	S 52° 4.785	W 11.3	315	6066	6096	4	2	"	"	x	x	x	x	x	"		
	21:30	48° 41.377	S 52° 10.467	W 11.8	311	6035	6058	4	2	"	"	x	x	x	x	x	"		
	22:00	48° 37.309	S 52° 17.118	W 12.1	308	5983	6008	4	2	"	"	x	x	x	x	x	"		
	22:30	48° 33.718	S 52° 23.939	W 12.1	309	5977	5991	4	2	"	"	x	x	x	x	x	"		
	23:00	48° 29.966	S 52° 30.607	W 12.1	317	5965	5990	4	2	7000	"	x	x	x	x	x	"		
	23:30	48° 29.873	S 52° 37.386	W 12.8	306	5962	5982	4	2	"	"	x	x	x	x	x	"		
19.05.05	24:00	48° 20.520	S 52° 44.507	W 13.0	316	5962	5988	4	2	"	"	x	x	x	x	x	"	P.G.	
	24:30	48° 16.238	S 52° 51.478	W 13.0	311	5970	5994	4	2	"	"	x	x	x	x	x	"		
	1:00	48° 11.450	S 52° 58.102	W 12.4	317	5982	6005	4	2	"	"	x	x	x	x	x	"		
	1:30	48° 07.616	S 53° 05.466	W 12.9	310	5977	6003	4	2	"	"	x	x	x	x	x	"		1:35 Perfect Gradient



Date	Time	Latitude	Longitude	Speed	Course	Depth PS	Depth W	Freq.	Pulse	D. Range	Sens. Operat. Mod.	AUX	NBS	PAR	PAR PSS	Meta	Power Transmitt. length	Watch keeper	Remarks
19.05.05	14:00	46° 13. 171 S	56° 07. 359 W	13.5	311	5201	5218	4	2	7000	Par-Pilot	x	x	x	x	x	Mod		
	14:30	46° 08. 665 S	56° 14. 428 W	13.5	313 2	5134	5158	4	2	11-	11-	x	x	x	x	x	11-	P.G.	
	15:00	46° 06. 235 S	56° 21. 249 W	13.1	309	5122	5143	4	4	11-	11-	x	x	x	x	x	11-		
	15:30	45° 59. 694 S	56° 21. 361 W	12.6	307	5088	5113	4	4	11-	11-	x	x	x	x	x	11-		
	16:00																		
	16:30	45° 51. 142 S	56° 41. 670 W	13.1	312	4952	4976	4	4	11-	11-	x	x	x	x	x	11-		
	17:00	45° 46. 745 S	56° 48. 418 W	13.1	310	4841	4870	4	4	11-	11-	x	x	x	x	x	11-		
	17:30																		
	18:00																		
	18:30																		
	19:00	45° 29. 350 S	57° 16. 700 W	14.0	311	4307	4312	4	2	5000	11-	x	x	x	x	x	11-		
	19:30	45° 27. 924 S	57° 23. 778 W	13.7	313	4020	4045	4	2	5	11-	x	x	x	x	x	11-		
	20:00	45° 19. 152 S	57° 30. 714 W	13.7	310	3988	3988	4	2	5	11-	x	x	x	x	x	11-		
	20:30	45° 16. 565 S	57° 38. 052 W	13.7	310	3840	3848	4	2	5	11-	x	x	x	x	x	11-		
	21:00	45° 10. 050 S	57° 46. 944 W	13.7	315	3621	3640	4	2	5	11-	x	x	x	x	x	11-		
	21:30	45° 04. 466 S	57° 48. 752 W	12.7	336	3552	3571	4	2	5	11-	x	x	x	x	x	11-		
	22:00	44° 59. 074 S	57° 52. 473 W	12.3	337	3434	3465	4	2	5	11-	x	x	x	x	x	11-		
	22:30	44° 53. 935 S	57° 55. 873 W	10.1	332	3520	3499	4	2	5	11-	x	x	x	x	x	11-		
	23:00	44° 49. 389 S	57° 58. 944 W	10.2	331	3138	2963	4	2	5	11-	x	x	x	x	x	11-		
	23:30	44° 44. 915 S	58° 01. 979 W	9.8	335	2731	2750	4	2	5	11-	x	x	x	x	x	11-		
20.05.05	24:00	44° 40. 523 S	58° 04. 947 W	11.1	343	2616	2604	4	2	11-	11-	x	x	x	x	x	11-		
	24:30	44° 36. 248 S	58° 07. 786 W	9.8	334	2403	2418	4	2	11-	11-	x	x	x	x	x	11-	P.G.	
	1:00	44° 31. 884 S	58° 10. 728 W	8.5	337	2373	2387	4	2	11-	11-	x	x	x	x	x	11-		
	1:30	44° 27. 615 S	58° 13. 608 W	9.8	336	2444	2454	4	2	11-	11-	x	x	x	x	x	11-		



Date	Time	Latitude	Longitude	Speed	Course	Depth	Temp	PS	Temp	Temp	D.Range	Sens. Operat	AUX	MBS	PAR	PAB	Meta	Pulse train length	Pulse train length	Remarks
20.05.05	2:00	44° 23.116 S	58° 16.605 W	8.2	344	2235	2245				5000	Par-Pilot	x	x	x	x	x	Min		
	2:30	44° 18.849 S	58° 18.460 W	11.0	337	2202	2217				u	-	x	x	x	x	x		P.g	
	3:00	44° 14.217 S	58° 22.481 W	10.6	336	2190	2201				u	u	x	x	x	x	x			
	3:30	44° 09.894 S	58° 25.432 W	10.8	338	2147	2144				u	u	x	x	x	x	x			
	4:00	44° 05.282 S	58° 28.498 W	10.4	330	2690	2775				u	u	x	x	x	x	x			
	4:30	44° 00.779 S	58° 31.577 W	10.7	337	1834	1804				u	u	x	x	x	x	x			
	5:00																			
	5:30																			
	6:00																			
	6:30																			
	7:00	43° 06.657 S	58° 47.500 W	11.7	334	1739	1881				u	u	x	x	x	x	x			
	7:30	43° 07.474 S	58° 50.958 W	12.8	332	1675	1682				u	u	x	x	x	x	x			
	8:00	43° 26.139 S	58° 54.420 W	12.6	337	1987	1982				u	u	x	x	x	x	x			
	8:30	43° 20.717 S	58° 58.066 W	11.8	330	1326	1333				u	u	x	x	x	x	x			
	9:00	43° 15.749 S	59° 01.700 W	11.9	330	1221	1227				2000	PAR	x	x	x	x	x			
	9:30	43° 07.725 S	59° 05.232 W	13.0	337	867	815				1000		x	x	x	x	x			10:07 -> D.Range 200m
	10:00	43° 06.061 S	59° 08.967 W	12.4	337	747	784				500		x	x	x	x	x			
	10:30	42° 58.812 S	59° 12.417 W	10.5	335	730	730				200		x	x	x	x	x			
	11:00	42° 53.712 S	59° 15.722 W	10.7	334	108	108				200		x	x	x	x	x			
	11:30	42° 49.208 S	59° 19.313 W	10.0	323	111	105						x	x	x	x	x			
	12:00	42° 44.163 S	59° 21.948 W	10.1	335	137	104						x	x	x	x	x			
	12:30	42° 39.313 S	59° 25.129 W	9.9	327	102	113						x	x	x	x	x			
	13:00												x	x	x	x	x			
	13:30												x	x	x	x	x			

