



PARASOUND
ARK VII/3
EKAHA - EKAHA - EKAHA

Datum	Uhrzeit	Länge	Breite	Speed	Wendehöhe	Druck		Rechenwert		Bemerkung	
						Range	Scale	Frequenz	Pulse		
01.08.51	20 ³⁰	70° 19.245	20° 30.390	10.1	192,5	1000	2000	4	4	Digitalisierung gestartet U.B.	
	20 ⁴⁵	20° 33.58	70° 21.26	10,0		1000	2000	4	4		
	21 ⁰⁰	20° 37.27	70° 23.38	10,0	277,3 14,7	1000	2000	4	4		
	21 ¹⁵	20° 40.53	70° 25.55	9,5	209,2	1000	2000	4	4		→ Neustart: Kunststoff
	21 ³⁰	20° 44.10	70° 27.73	10.1	213	1000	2000	4	4		Kunststoff
	21 ⁴⁵	20° 47.50	70° 30.15	10,0	209	1000	2000	4	4		mit zurücksetzen
	22 ⁰⁰	20° 51.13	70° 32.67	9,9	183	1000	2000	4	4		(Datenwerte konnte nicht komplett lesen)
	22 ¹⁵	20° 55.29	70° 36.42	10.1	172	1000	2000	4	4		Karte (diff. Karte später (bestenfalls))
	22 ³⁰	20° 57.34	70° 36.86	10.2	180	1000	2000	4	4		} plötzl. am nach sine Programme abgefragt
	22 ⁴⁵	29° 00.31	70° 38.17	10.1	215	1000	2000	4	4		
23 ⁰⁰	29° 04.57	70° 41.34	10.3	266	1000	200	4	4			
23 ¹⁵	29° 07.30	70° 43.79	10.1	262	1000	200	4	4			
23 ³⁰	29° 10.62	70° 45.92	10.2	230	1000	200	4	4	23 ³⁰ läuft nicht		
23 ⁴⁵	29° 14.52	70° 48.08	10.2	190	1000	200	4	4	} Bee "RR.C. nach der Testphase Karte Esigal 1940 → Drucker ausgefragt (unten belad.) Programme wieder auf den geladenen Drucker durchgefragt		
0.2.48.51	0 ⁰⁰	29° 20.66	70° 42.24	10,0	130	1000	200	4		4	
	0 ¹⁵	29° 23.17	70° 51.74	10,1	183 158	1000	200	4		4	
	0 ³⁰	29° 25.46	70° 54.25	10.1		1000	200	4		4	
	0 ⁴⁵	29° 28.30	70° 56.37	10,4	167	1000	200	4		4	
	1 ⁰⁰	29° 30.70	70° 58.09	10.5	168	1000	200	4	4		

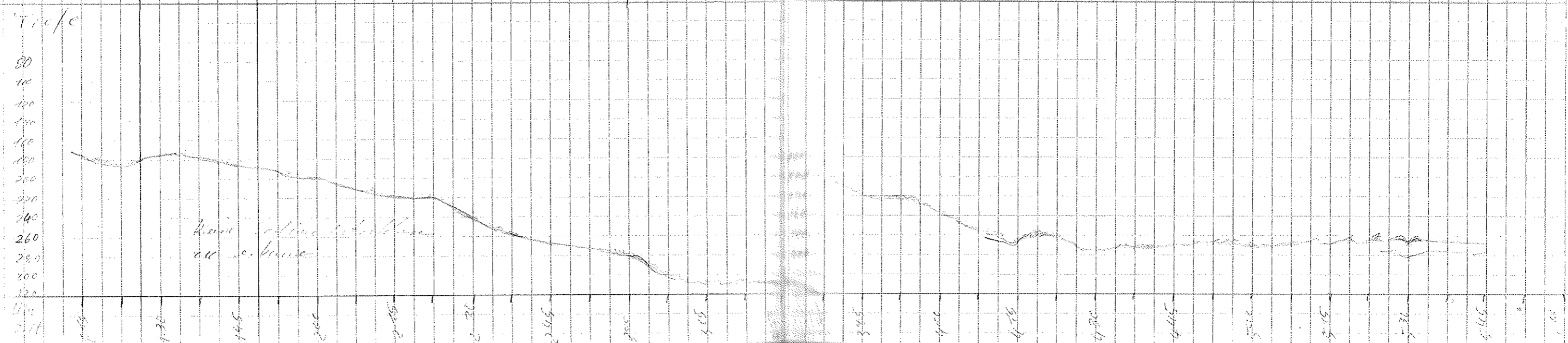
Datum	Wzeit	Länge	Breite	Speed	Wasser-tiefe	Range	Scale	Frequenz	Reitse	Wackgänger	Bemerkungen
02.08.31	1:15	21° 33.304	71° 01.436	10.1	175	1000	200	4	4		
	1:30	21° 36.637	71° 03.759	10.3	177	1000	200	4	4		
	1:45	21° 38.92	71° 06.08	10.6	188	1000	200	4	4		
	2:00	21° 44.6	71° 09.96	10.4	200	1000	200	4	4		
	2:15	21° 47.55	71° 11.03	10.4	220	1000	200	4	4		
	2:30	21° 50.51	71° 13.10	10.2	250	1000	200	4	4		
	2:45	21° 53.64	71° 15.42	10.3	172	1000	200	4	4		
	3:00	21° 54.03	71° 17.68	10.3	283	1000	200	4	4		
	3:15	22° 01.13	71° 20.47	10.6	371	1000	200	4	4		
	3:30	22° 02.48	71° 21.68	10.6	310	1000	200	4	4		
	3:45	22° 07.36	71° 24.76	10.7	343	1000	200	4	4		
	4:00	22° 10.39	71° 27.19	10.6	352	1000	200	4	4		
	4:15	22° 14.39	71° 29.43	10.5	385	1000	200	4	4		
	4:30	22° 18.38	71° 32.08	10.5	334	1000	200	4	4		
	4:45	22° 21.75	71° 34.32	10.5	392	1000	200	4	4		
	5:00	22° 21.62	71° 36.55	10.8	333	1000	200	4	4		
	5:15	22° 28.34	71° 38.35	10.5	382	1000	200	4	4		
	5:30	22° 32.87	71° 41.26	10.4	385	1000	200	4	4		
	5:45	22° 36.26	71° 43.52	10.3	391	1000	200	4	4		

Program beendet
Fehler, keine Reaktion
auf Startton
zählt die Scherle
nicht hoch
das ist das geht
nicht

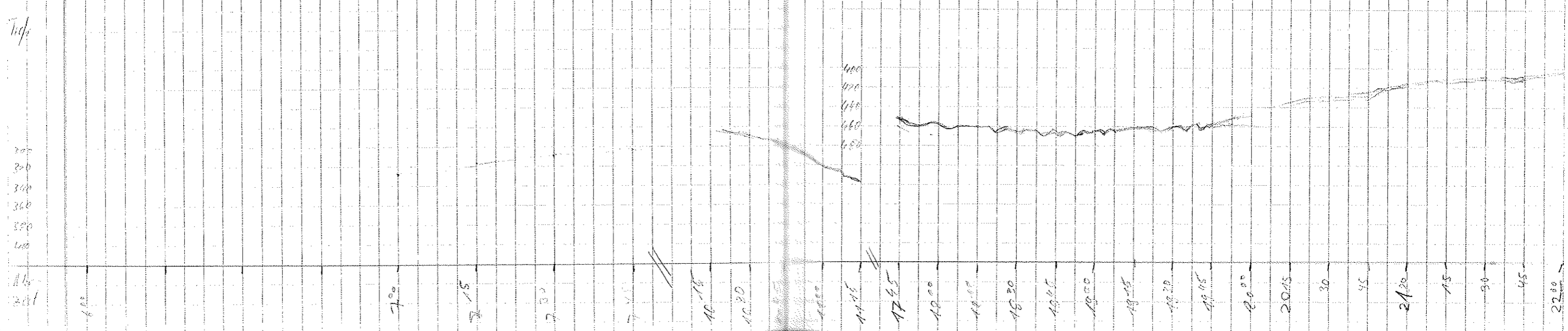
output:
→ Data auf E

Wackgänger

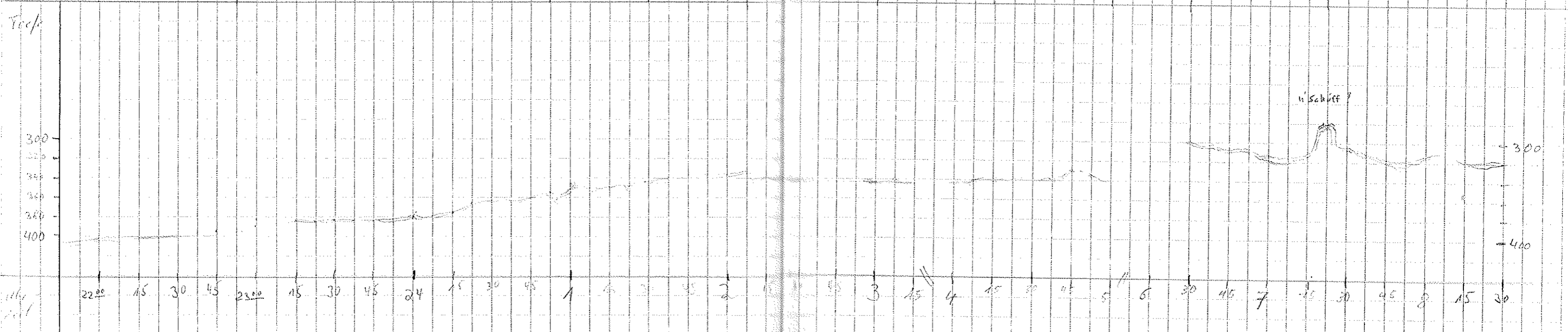
Program beendet
schlechtes Ergebnis
Reaktion auf Beginn
(Autostart)



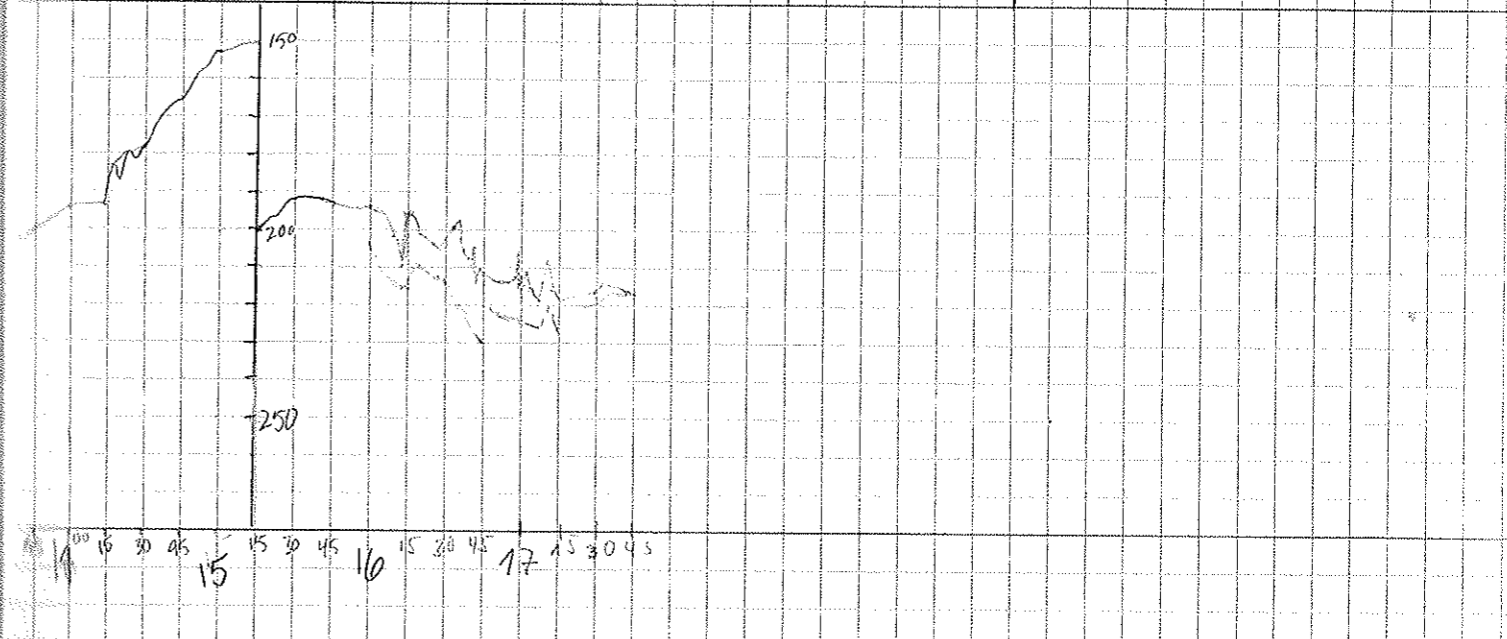
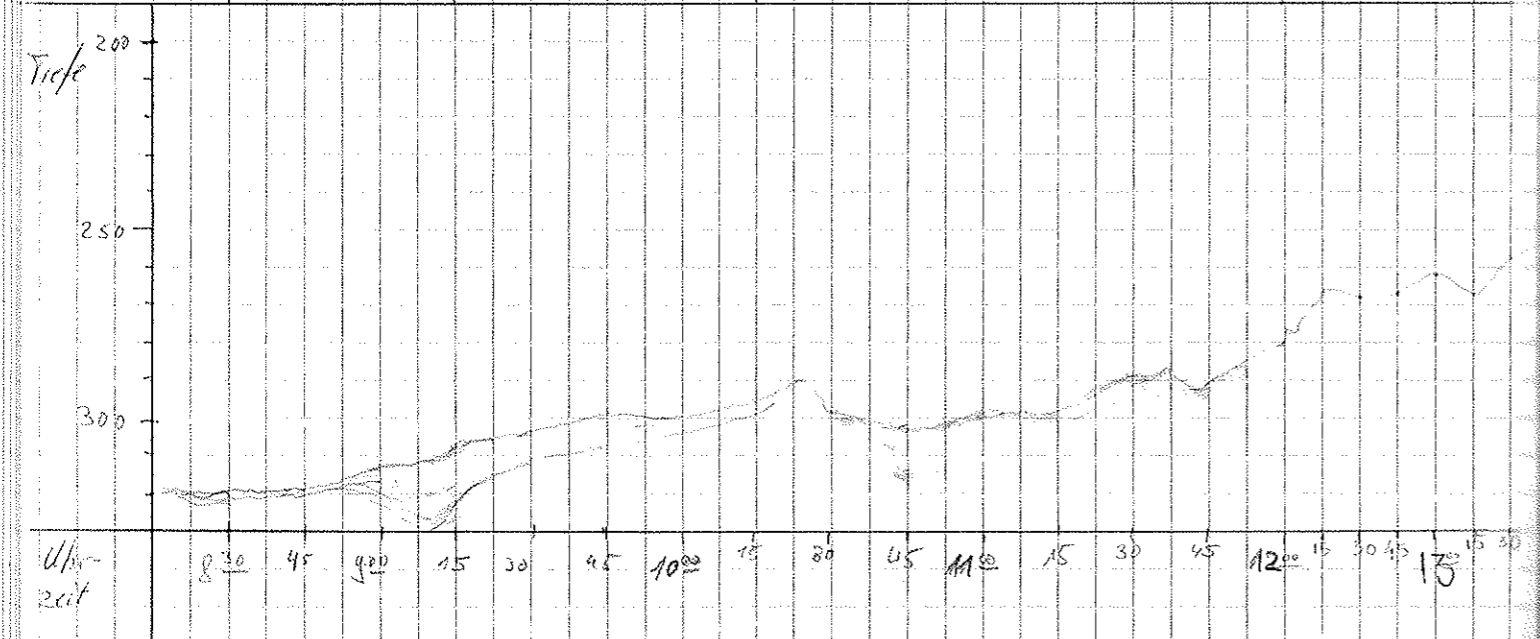
Datum	Uhrzeit	Latitude	Longitude	Speed	Wassertiefe	Range	Scale	Desc	Recount	Frequenz	Puls	Wachgänger	Bemerkungen
02.02.98	6 ⁰⁰	28° 40.05	71° 46.03	10.9	387	1000	200			4	4		Absturz, kein Pilot
	7 ⁰⁰	22° 54.743	71° 56.220	11.1	329	1000	200			4	4	Freibühne	Start mit anderen Booten auf 6:1
	7 ¹⁴	22° 58.669	71° 58.336	11.3	311	1000	200			4	4		
	7 ³⁰	23° 03.244	72° 01.938	11.2	310	1000	300			4	4		
	7 ⁴⁵	23° 07.237	72° 03.441	10.9	306	1000	200			4	4		
	10 ¹⁵	23° 49.30	72° 27.32	10.9	282	1000	200			4	4		Absturz
	10 ³⁰	23° 47.68	72° 29.47	10.8	294	1000	200			4	4		
	10 ⁴⁵	23° 51.33	72° 31.83	11.6	311	1000	200			4	4	Bogen	
	11 ⁰⁰	23° 55.50	72° 33.30	10.5	328	1000	200			4	4		
	11 ¹⁵	23° 58.89	72° 36.72	10.7	334	1000	200			4	4		
	11 ⁴⁴	24° 06.447	72° 41.400	10.4	360	1000	200			4	4		Absturz, Retowabsturz
	11 ⁵⁴	24° 08.159	72° 42.517	10.6	373	1000	200			4	4		Programmabsturz
	17 ⁴⁸	25° 42.93	73° 39.47	10.6	450	1000	200			4	4	Bogen	
	18 ⁰⁰	25° 47.13	73° 43.05	10.3	439	1000	200			4	4		
	18 ¹⁵	25° 51.40	73° 44.58	10.7	439	1000	300			4	4		
	18 ³⁰	25° 56.32	73° 46.70	11.1	465	1000	200			4	4		
	18 ⁴⁵	25° 59.64	73° 49.48	11.3	462	1000	200			4	4		
	19 ⁰⁰	26° 03.51	73° 51.80	11.0	466	1000	200			4	4		
	19 ¹⁵	26° 07.66	73° 54.27	11.1	452	1000	200			4	4		
	19 ³⁰	26° 11.93	73° 56.87	11.0	457	1000	300			4	4		
	19 ⁴⁵	26° 15.30	73° 59.20	10.8	456	1000	200			4	4		
	20 ⁰⁰	26° 18.59	74° 00.83	10.9	449	1000	200			4	4		
	20 ²⁰	26° 25.63	74° 05.01 N	10.8	428	1000	200			4	4	Neuauflage	20.17 Programmabsturz
	20 ³⁰	26° 28.54	74° 06.61	10.6	428	1000	200			4	4		unvollständiger Neustart
	20 ⁴⁵	26° 33.04	74° 09.05	10.9	423	1000	200			4	4		
	21 ⁰⁰	26° 37.48	74° 11.44	11.0	418	1000	200			4	4		
	21 ¹⁸	26° 42.82	74° 14.44	11.1	415	1000	300			4	4		21.19 Total absturz-Rechner ausfallen
	21 ³⁰	26° 46.21	74° 16.48	11.0	412	"	"			"	"		
	21 ⁴⁵	26° 50.12	74° 18.53	11.0	408	"	"			"	"		
	22 ⁰⁰	26° 54.18	74° 21.45	10.7	402	"	"			"	"		



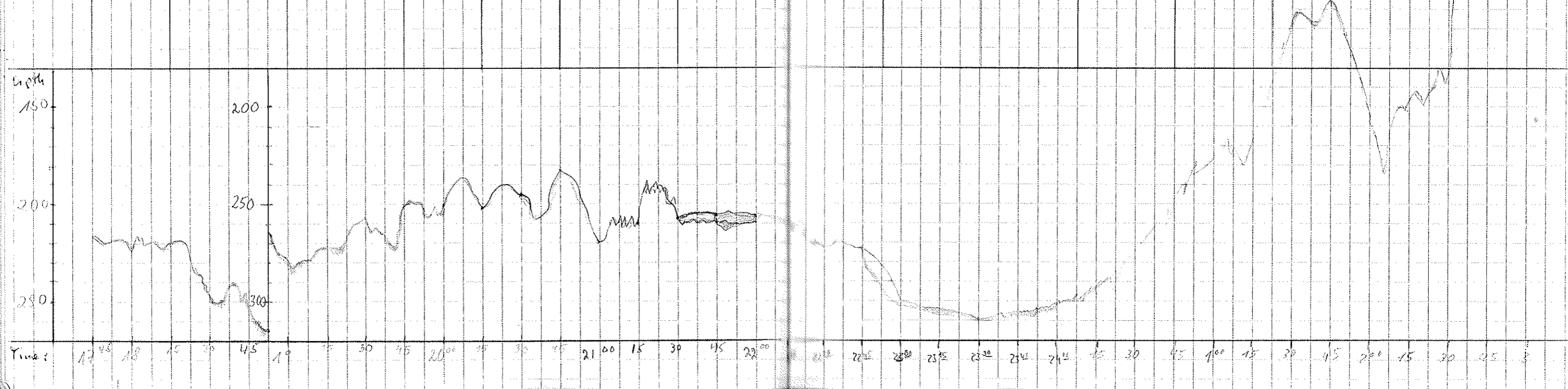
Datum	Uhrzeit	Breite	Länge	Speed	Einrichtung		Range	Scale	Parascout		Wahrgenommen	Bemerkung
					Wassertiefe	15-20			Frequenz	Pulse		
02.08.91	22:00	74° 21.45 N.	26° 54.15 E	10.7	402 m	15-20	1000	200	4	4	Wahrgenommen	Bemerkung
	22:05											
	22:15	74° 23.88	26° 58.71	10.8	400	15	"	"	"	"		Abstand + Neustart
	22:30	74° 26.20	27° 03.04	10.5	397	10	"	"	"	"		Wann kein Headlog (Course?)
	22:45	74° 28.67	27° 07.70	10.7	396	10	"	"	"	"		
	23:00	74° 31.06	27° 11.19	10.7	391	10	"	"	"	"		Wahrgenommen
	23:15	74° 33.49	27° 14.73	10.9	385	10	"	"	"	"		
	23:30	74° 35.93	27° 18.24	10.9	387	10	"	"	"	"		
	23:45	74° 38.38	27° 21.79	10.7	385	10	"	"	"	"		Abstand 23 ⁴³ , Reibungspass
03.08.91	0:00	74° 41.72	27° 25.23	10.7	382	10	"	"	"	"		0:02 Biese Behälterdecke auf
	0:15	74° 43.12	27° 33.73	10.8	374	10	"	"	"	"		Start für Kurs, Fingerring
	0:30	74° 45.56	27° 38.26	11.5	363	5-11	"	"	"	"		misst
	0:45	74° 47.99	27° 42.78	10.7	361	5-11	"	"	"	"		Reibung 0 ³² Reibungspass
	1:00	74° 50.30	27° 47.03	10.8	357	"	"	"	"	"		
	1:15	74° 52.71	27° 51.57	10.9	351	"	"	"	"	"		1:23 Abstand, Automatisch
	1:30	74° 55.11	27° 56.13	10.9	343	"	"	"	"	"		
	1:45	74° 57.58	28° 00.70	11.1	339	"	"	"	"	"		1:50 1 ⁵⁰ auf Reibungspass
	2:00	75° 00.04	28° 05.30	11.0	339	"	"	"	"	"		am Deso geschaltet
	2:15	75° 02.49	28° 09.85	10.9	338	"	"	"	"	"		2:20 Abstand, Reibungspass
	2:30	75° 04.89	28° 14.31	10.8	341	"	"	"	"	"		
	2:45	75° 07.28	28° 18.76	10.8	341	"	"	"	"	"		Begeben
	3:00	75° 09.74	28° 23.31	10.7	345	"	"	"	"	"		
	3:15	75° 11.11	28° 27.87	10.7	346	"	"	"	"	"		
	4:00	75° 13.21	28° 40.38	10.6	347	"	"	"	"	"		Abstand 3 ⁴⁴
	4:15	75° 15.15	28° 46.54	10.7	347	"	"	"	"	"		Reibung 3 ⁵⁰ Reibungspass
	4:30	75° 17.15	28° 50.77	10.7	347	"	"	"	"	"		
	4:45	75° 19.10	28° 54.98	11.0	329	"	"	"	"	"		Deso auch Ext geschaltet
	5:00	75° 21.10	28° 59.20	11.0	329	"	"	"	"	"		Start für Reibungspass bis 5:00
	6:30	75° 29.16	28° 57.36	10.5	342	"	"	"	"	"		Abstand 5 ⁰⁰
	6:45	75° 43.57	29° 27.86	10.7	308	"	"	"	"	"		Reibungspass APP 501
	7:00	75° 48.77	29° 36.98	11.0	345	"	"	"	"	"		Wahrgenommen 16:30
	7:15	75° 50.69	29° 41.68	10.5	347	"	"	"	"	"		
	7:30	75° 52.75	29° 44.86	10.7	307	"	"	"	"	"		2:43 Abstand 1 ³⁰ aufpas
	7:50	75° 56.33	29° 52.85	11.0	320	"	"	"	"	"		Wahrgenommen
	8:00	75° 57.38	29° 56.04	11.1	318	10	"	"	"	"		
	8:15	76° 00.58	29° 59.57	10.7	320	10	"	"	"	"		
	8:30	76° 03.06	30° 00.46	10.5	321	10	"	"	"	"		



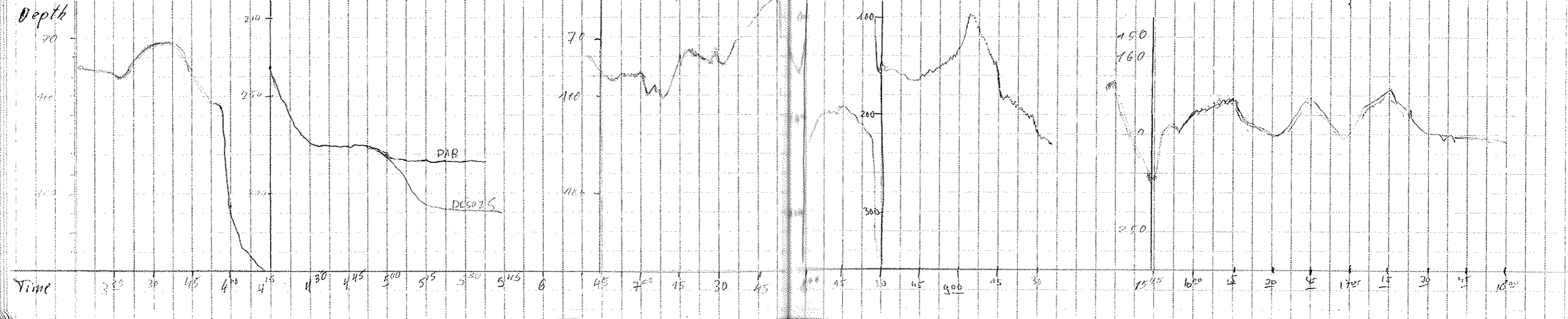
Datum	Uhrzeit	Breite	Länge	Speed	Eindringung		Deso		Parasound		Wachgänger	Bemerkung
					Wassertiefe	↓	Range	Scale	Frequenz	Pulse		
3.8.51	8:30	76° 03.06 N	30° 00.46 E	10.3	321	10	1000	200	4	4	Nowatzk	
	8:45	76° 05.65	30° 01.16	10.5	317	10	"	"	"	"	"	
	9:00	76° 08.21	30° 01.75	10.4	312	15	"	"	"	"	"	ng ¹⁰ autom. Neustart
	9:15	76° 10.80	30° 02.36	10.4	307	20-25	"	"	"	"	"	
	9:30	76° 13.30	30° 02.30	10.3	303	10-15	"	"	"	"	"	
	9:45	76° 15.95	30° 03.45	10.2	298	10	"	"	"	"	"	
	10:00	76° 18.85	30° 03.30	10.2	301	10	"	"	"	"	"	
	10:15	76° 21.20	30° 04.16	10.4	298	10	"	"	"	"	"	
	10:30	76° 23.64	30° 04.59	10.2	298	10	"	"	"	"	"	
	10:45	76° 26.24	30° 04.79	10.3	302	20	"	"	"	"	"	
	11:00	76° 28.77	30° 05.16	10.3	297	10	"	"	"	"	"	
	11:15	76° 31.34	30° 05.62	10.5	296	10	"	"	"	"	"	Rechner aus/am wegen hang up
	11:30	76° 34.25	30° 06.09	10.3	288	10	"	"	"	"	"	
	11:45	76° 36.51	30° 06.51	10.5	290	10-15	"	"	"	"	"	
	12:00	76° 39.01	30° 07.24	10.2	280	5	"	"	"	"	BERGSTEN	
	12:15	76° 42.17	30° 08.21	10.3	266	5	"	"	"	"	"	
	12:30	76° 44.19	30° 08.87	10.3	269	5-10	"	"	"	"	"	
	12:45	76° 46.69	30° 09.57	10.3	267	5	"	"	"	"	"	
	13:00	76° 49.32	30° 10.29	10.2	262	10	"	"	"	"	"	
	13:15	76° 51.78	30° 10.88	10.3	267	10	"	"	"	"	"	
	13:30	76° 54.46	30° 11.58	10.6	258	5-10	"	"	"	"	"	
	13:45	76° 56.94	30° 12.28	10.8	250	15	"	"	"	"	"	
	14:00	76° 59.52	30° 12.93	10.1	244	15	"	"	"	"	"	
	14:15	77° 02.16	30° 13.58	10.0	244	15	"	"	"	"	BRASS	
	14:30	77° 04.02	30° 14.27	10.0	228	15	"	"	"	"	"	
	14:45	77° 07.10	30° 15.18	10.2	215	10	"	"	"	"	"	
	15:00	77° 09.71	30° 16.31	10.4	203	15-20	"	"	"	"	"	
	15:15	77° 12.30	30° 17.24	10.5	200	15	"	"	"	"	"	
	15:30	77° 14.84	30° 17.91	10.2	192	10	"	"	"	"	"	
	15:45	77° 17.40	30° 18.45	10.5	194	5-10	"	"	"	"	"	
	16:00	77° 20.00	30° 18.68	10.6	194	5-10	"	"	"	"	FREDERICKS	
	16:15	77° 22.54	30° 19.52	10.2	194	5-10	"	"	"	"	"	
	16:30	77° 25.16	30° 19.85	10.4	196	10	"	"	"	"	"	
	16:45	77° 27.92	30° 20.11	10.3	212	20	"	"	"	"	"	16 ⁴⁹ Moskwa, W. Borns...
	17:00	77° 30.23	30° 20.43	10.3	212	10-15	"	"	"	"	"	
	17:15	77° 32.96	30° 21.12	10.2	219	5-10	"	"	"	"	"	
	17:30	77° 35.29	30° 22.15	10.1	217	5	"	"	"	"	"	



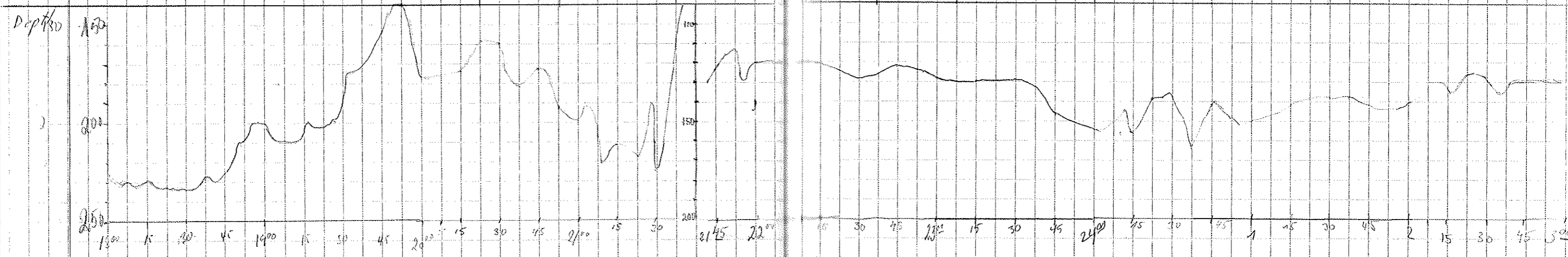
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Deso		Parasound		Name	Comments	
								Range	Scale	Frequency	# of Pulse			
03.08.91	17 ⁴⁶	77° 32.06 N	30° 23.39 E	10.2	4.7	217	5	1000	200	4	4	FREDERIC	17 ³⁶ H300, R300, ans, tom	
	18 ⁰⁰	77° 40.20	30° 24.14	M.1	4.3	223	5	"	"	"	"	"	"	
	18 ¹⁵	77° 42.75	30° 24.83	9.9	1.7	216	"	"	"	"	"	GARD	"	
	18 ³⁰	77° 45.14	30° 25.01	9.7	0.4	248	"	"	"	"	"	"	"	
	18 ⁴⁵	77° 47.63	30° 25.60	9.9	3.4	257	"	"	"	"	"	"	"	
	19 ⁰⁰	77° 50.06	30° 26.19	10.0	3.7	277	"	"	"	"	"	"	"	"
	19 ¹⁵	77° 52.46	30° 26.94	9.8	3.8	277	"	"	"	"	"	"	"	"
	19 ³⁰	77° 54.85	30° 27.66	9.8	3.8	257	"	"	"	"	"	"	"	"
	19 ⁴⁵	77° 57.33	30° 28.46	9.5	4.4	250	"	"	"	"	"	"	"	"
	20 ⁰⁰	77° 59.68	30° 29.20	9.7	1.8	250	"	"	"	"	"	"	"	"
	20 ¹⁵	78° 02.09	30° 31.33	9.8	13.6	251	6	"	"	"	"	"	Jodrey	"
	20 ³⁰	78° 04.45	30° 34.03	9.8	12.7	246	"	"	"	"	"	"	"	"
	20 ⁴⁵	78° 06.80	30° 36.64	9.7	13.1	232	"	"	"	"	"	"	"	"
	21 ⁰⁰	78° 09.17	30° 39.29	9.7	15.2	270	10	"	"	"	"	"	"	"
	21 ¹⁵	78° 11.48	30° 42.23	9.8	14.6	260	6	"	"	"	"	"	"	"
	21 ³⁰	78° 13.78	30° 45.13	9.7	14.1	259	10	"	"	"	"	"	"	"
	21 ⁴⁵	78° 16.22	30° 47.99	9.9	13.9	257	15	"	"	"	"	"	"	"
	22 ⁰⁰	78° 18.58	30° 50.82	9.8	13.4	256	5	"	"	"	"	"	"	"
	22 ¹⁵	79° 20.99 N	30° 53.30 E	9.6	11.5	250	10	"	"	"	"	"	"	Selbeck
	22 ³⁰	79° 23.22	30° 55.77	10.3	11.0	274	8	"	"	"	"	"	"	"
22 ⁴⁵	79° 25.63	30° 58.21	9.7	12.5	274	5	"	"	"	"	"	"	"	
23 ⁰⁰	79° 28.04	31° 01.10	10.1	13.5	298	10	"	"	"	"	"	"	"	
23 ¹⁵	79° 30.43	31° 03.99	9.8	14.0	304	8	"	"	"	"	"	"	"	
23 ³⁰	79° 32.85	31° 06.98	9.8	15.0	309	9	"	"	"	"	"	"	"	
23 ⁴⁵	79° 35.23	31° 09.62	9.6	17.8	306	6	"	"	"	"	"	"	"	
24 ⁰⁰	79° 37.62	31° 12.40	9.9	13.0	302	10	"	"	"	"	"	"	"	
04.08.91	00 ¹⁵	79° 40.01	31° 15.68	9.3	20.4	287	7-10	"	"	"	"	"	"	ARK 002
	01 ⁰⁰	79° 46.84	31° 20.23	10.1	4.6	225	5-10	"	"	"	"	"	"	Backup 00 ³⁰ / start coast
	01 ¹⁵	79° 48.18	31° 21.27	10.0	5.1	245	"	"	"	"	"	"	"	off / Header ka with
	01 ³⁰							"	"	"	"	"	"	glace accide
	02 ⁰⁰	79° 56.66	31° 27.85	10.1	2.9	225	5-10	"	"	"	"	"	"	then 25 ⁰⁰ check 10?
EIS	02 ¹⁵	79° 58.04	31° 38.37	10.0	6.4	224	5	"	"	"	"	"	"	245 ⁰⁰ after mid of
	02 ³⁰	79° 01.47	31° 41.33	9.9	13.6	183	5	"	"	"	"	"	"	abrupt
	02 ⁴⁵	79° 04.41	31° 44.46	10.4	3.6	180	5	"	"	"	"	"	"	"
	03 ⁰⁰	79° 06.36	31° 43.60	7.4	35.5	85	5	"	"	"	"	"	"	"



Date	Time	Latitude	Longitude	Speed	Course	Waterdepth	Penetration	Range	Scale	Parascand Frequency	Parascand # of Pulse	Altimeter	Comments
02.02.91	03:45	79°08.35	31°42.29 E	10.4	358.6	87	5	1000	200	4	4	Bergman	
	03:50	79°10.79	31°42.43	7.8	257.8	77	5	1000	"	"	"	"	
	03:45	79°12.72	31°40.94	10.4	373.6	98	5	"	"	"	"	"	
	04:10	79°15.34	31°37.5	31 10.7	346.2	157	8	"	"	"	"	"	
	04:15	79°17.93	31°34.2	10.8	317.1	234	14	1000	200	4	4	MORAN	
	04:30	79°21.5	31°30.5	10.3	362.6	275	18	1400	200	4	4	"	Computer restart @ 4:20
	04:45	79°25.00	31°27.04	10.1	341.7	276	16	1000	200	4	4	"	Back on @ 4:39
	05:00	79°24.81	31°25.22	9.8	343.8	283	12	1000	200	4	4	"	Ship began hitting small ice bits @ 4:45
	05:15	79°26.68	31°22.68	9.8	343.3	283	8	1000	200	4	4	"	
	05:30	79°28.63	31°19.45	8.3	352.3	283	4	1000	200	4	4	"	
	05:45	79°30.87	31°15.88										Computer restart @ 5:45
	06:45	79°39.44	31°04.70	10.0	338.8	82	5	"	"	"	"	Bergman	Tiefenbestimmung
	07:00	79°41.63	31°00.07	9.7	349.9	93	5	"	"	"	"	"	ausgewählte Parascand
	07:15	79°44.11	31°55.78	9.9	348.9	79	3	"	"	"	"	"	an 2.000m
	07:30	79°46.32	31°52.88	8.7	248.4	80	2	"	"	"	"	"	
	07:45	79°48.54	31°48.42	9.8	344.2	50	1	"	"	"	"	"	
	08:00	79°50.93	30°44.57	8.5	343.4	70	5	"	"	"	"	Newcastle	Programmstart 8:00
	8:25	79°54.63	30°57.55	8.7	342.0	74	5	"	"	"	"	"	Newstart 8:25
	8:30	79°55.37	30°56.34	8.9	347.0	143	5	"	"	"	"	"	
	8:46	79°57.64	30°51.48	8.2	347.8	165	5	"	"	"	"	"	
	9:00	79°59.38	30°29.72	8.4	19.7	130	5	"	"	"	"	"	
	9:15	80°01.41	30°29.12	8.2	332.1	174	5	"	"	"	"	"	
	9:30	80°01.00	30°22.28	8.5	330.5	228	10	"	"	"	"	"	
	9:45	80°05.37	30°17.15	0.6	68.8	259		"	"	"	"	"	Station / Späherung aus
	10:00											Kasens	Station
	11:30												Station
	14:30	80°14.47	30°25.25	6.8	350.5	187	5	"	"	"	"	Bergman	Station beendet
	15:35	80°15.70	30°23.08	8.0	353.5	277	10	"	"	"	"	"	Programmierung
	16:00	80°16.68	30°22.82	9.1	45.8	180	10	"	"	"	"	"	HD Kraft verloren
	16:15	80°18.08	30°25.57	3.6	328.4	182	5	"	"	"	"	"	Langsam ab
	16:30	80°18.85	30°22.84	2.6	19.7	199	2	"	"	"	"	Thiede	Vertikale mit gest. Lit
	16:45	80°19.86	30°23.91	5.8	308.8	179	10	"	"	"	"	Bergman	
	17:00	80°20.50	30°20.56	3.3	258.7	175	10	"	"	"	"	Thiede	
	17:15	80°21.10	30°24.71	9.6	92.2	171	5	"	"	"	"	Thiede	
	17:30	80°21.20	30°30.29	8.7	80.8	182	5	"	"	"	"	Thiede	17:30 Station → 18:20
	17:45	80°22.76	30°43.53	11.1	48.8	201	1	"	"	"	"	Thiede	17:30 → 18:00
	18:00	80°24.24	30°49.68	4.4	19.1	219	5	"	"	"	"	Thiede	
	18:15	80°25.33	30°54.34	10.3	353.5	237	5	"	"	"	"	Verden	
	18:30	80°25.45	30°54.94	1.4	190.3	274	5	"	"	"	"	Verden	



Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Dose Range	Dose Scale	Precursor Frequency	Precursor # of Pulses	Name	Comments
040891	18 45	80 20 04	30 52 34	10.9	17.8	235	4	1000	200	1 Hz	1	Vorren	
"	19 00	80 27 21	30 54 28	6.2	318.8	202	4	"	"	"	"	Vorren	
"	19 15	80 28 58	30 57 74	5.3	33.2	208	4	"	"	"	"	Vorren	
"	19 30	80 29 54	30 58 42	8.6	328.3	179	3	"	"	"	"	Vorren	Changed depth range to 80-280
"	19 45	80 30 75	31 00 87	6.6	53.7	156	4	"	"	"	"	Vorren	Seem to be relatively hard
"	20 00	80 32 35	30 56 35	9.6	348.9	174	3	"	"	"	"	Vorren	bottom from 1800-2600
"	20 15	80 33 72	30 57 57	7.5	351.6	173	4	"	"	"	"	Bergsten	Reset PSSystem UB 2040-2050
"	20 30	80 35 24	30 54 13	4.1	336.9	160	5	"	"	"	"	"	ARK 803
"	20 45					172		"	"	"	"	"	Backup made by U. Bergsten
"	21 00	80 38 63	30 49 64	6.9	343.6	201	5	"	"	"	"	"	Reset PSSystem 2053 U.B.
"	21 15	80 40 32	30 51 11	5.5	24.0	212	5	"	"	"	"	"	Reset PSSystem 2122-2137 U.B.
"	21 30	80 43 57	30 54 53	9.4	354.6	138	5	"	"	"	"	"	
"	21 45	80 44 72	30 52 84	11.3	336.6	125	5	"	"	"	"	"	
"	22 00	80 46 40	30 53 03	0.2	160.7	120	5	"	"	"	"	"	
"	22 15	80 46 75	30 55 38	4.1	18.7	124	5	"	"	"	"	"	
"	22 30	80 47 40	30 54 72	1.2	356.9	128	5	"	"	"	"	BERGMAN	
"	22 45	80 48 79	30 57 28	9.2	015.2	121	5	"	"	"	"	"	
"	23 00	80 49 86	30 58 00	6.2	327.1	129	5	"	"	"	"	"	
"	23 15	80 50 51	30 53 69	5.6	359.8	130	5	"	"	"	"	"	
"	23 30	80 52 82	30 55 46	10.2	350.7	130	5	"	"	"	"	"	
"	23 45	80 54 29	30 55 90	2.7	070.7	148	5	"	"	"	"	"	Change Scale to 120-320
050891	00 00	80 54 53	30 55 38	5.0	290.7	154	5	"	"	"	"	"	
"	00 15	80 55 65	30 54 67	1.1	304.2	156	10	"	"	"	"	FREEDMAN	
"	00 30	80 55 94	30 47 63	4.2	336.6	139	10	"	"	"	"	"	
"	00 45	80 56 67	30 47 42	2.4	322.1	142	5 (1)	"	"	"	"	"	Z. T. Rasmussen
"	01 00	80 57 20	30 46 89	4.3	59.1	149	5	"	"	"	"	"	
"	01 15	80 57 74	30 46 00	7.0	332.1	135	5	"	"	"	"	"	
"	01 30	80 59 45	30 44 19	6.6	11.1	129	5	"	"	"	"	"	
"	01 45	81 00 09	30 44 24	0.3	3.9	131	5	"	"	"	"	"	
"	02 00	81 00 11	30 46 98	0.8	122.7	130	5	"	"	"	"	"	Station 142
"	02 15	81 00 04	30 47 82	0.6	115.5	133		"	"	"	"	GARD	
"	02 30	81 00 26	30 47 98	0.5	313.8	127		"	"	"	"	"	
"	02 45	81 00 09	30 47 29	0.2	40.3	130		"	"	"	"	"	
"	03 00	81 00 15	30 47 42	0.1	349.8	130		"	"	"	"	"	



Time

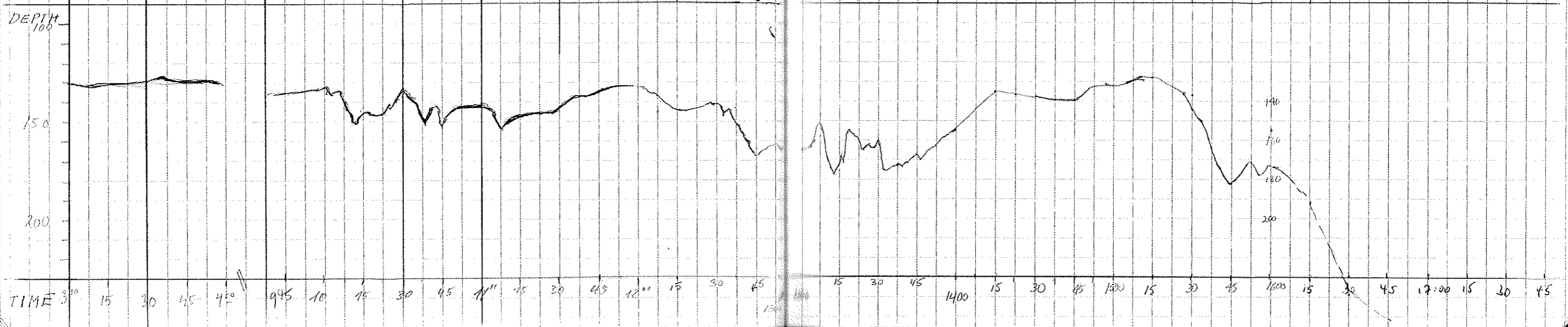
DATE	TIME	LATITUDE	LONGITUDE	SPEED	COURSE	WATER DEPTH	PENETRATION	RANGE	DESO SCALE	DESO FREQUENCY	DESO # of PULSE	NAME	COMMENTS
050891	03 15	81°00' 19 N	30°47' 62 E	0.2	44.6	130m	5	1000	200	4	4	WARD	
	03 30	81°00' 22	30°42' 75	0.2	24.4	129		"	"	"	"	"	
	03 45	81°00' 26	30°47' 96	0.1	63.8	129		"	"	"	"	"	
	09 00	81°00' 28	30°48' 24	0.2	51.1	129		"	"	"	"	"	
	08 45	80°55' 72	30°49' 74	3.2	100.5	125	5-70	"	"	"	"	"	
	10 00	81°00' 15	30°53' 86	4.8	29.3	140	10	"	"	"	"	"	
	10 15	81°01' 58	30°49' 39	5.3	332.0	146	5-10	"	"	"	"	"	
	11 30	81°02' 43	30°41' 58	6.0	313.9	147	5-10	"	"	"	"	"	
	10 45	81°03' 14	30°42' 98	2.6	16.6	154	5-20	"	"	"	"	"	
	11 00	81°01' 30	30°45' 33	4.8	55.6	147	"	"	"	"	"	"	
	11 15	81°04' 20	30°49' 30	3.0	64.3	145	"	"	"	"	"	"	
	11 30	81°04' 89	30°51' 57	2.5	35.8	145	"	"	"	"	"	"	
	11 45	81°05' 99	30°51' 57	2.9	27.5	136	"	"	"	"	"	"	
	12 00	81°07' 05	30°53' 36	5.2	27.4	131	"	"	"	"	"	"	
	12 15	81°08' 09	30°52' 11	2.2	300.1	147	5-6	1000	200	4	4	MORAW	
	12 30	81°08' 18	30°47' 03	3.3	264.4	141	8-10	1000	200	4	4	"	
	12 45	81°08' 89	30°44' 07	3.7	16.5	148	6-8	1000	200	4	4	"	
	13 00	81°09' 93	30°41' 91	4.2	308.4	105	6	1000	200	4	4	"	
	13 15	81°10' 62	30°36' 11	4.4	343.0	171	4-8	1000	200	4	4	"	
	13 30	81°11' 59	30°33' 15	5.8	322.0	160	4-8	1000	200	4	4	"	
	13 45	81°12' 46	30°28' 55	5.9	337.4	167	6-8	1000	200	4	4	"	
	14 00	81°13' 15	30°23' 36	4.6	304.0	155	6-8	1000	200	4	4	"	
	14 15	81°13' 87	30°18' 61 E	4.7	351.2	135	5-6	1000	200	4	4	MOSNER	
	14 30	81°14' 62	30°13' 55	5.6	286.7	138	5	1000	200	4	4	"	
	14 45	81°15' 46	30°10' 07	2.5	324.	139	5	1000	200	4	4	"	
	15 00	81°16' 39	30°08' 81	6.0	354.6	132	5-6	1000	200	4	4	"	
	15 15	81°17' 10	30°09' 22	4.6	342.5	128	6-7	1000	200	4	4	"	
	15 30	81°17' 25	30°04' 11	4.2	244.3	142	6-7	1000	200	4	4	"	
	15 45	81°18' 46	29°59' 24	3.9	14.0	182m		1000	200	4	4	"	
	16 00	81°19' 456	30°02' 286 E	4.8	19.1	166		1000	200	4	4	"	
	16:15	81°20' 681 N	30°04' 090 E	4.7	0	192	5	100	200	4	4	Kassens	
	16:30	81°21' 640	30°00' 194 E	4.4	340	239	5	1000	200	4	4	Kassens	
	16:45	81°22' 665	29°56' 949 E	4.8	332.8	259	5	1000	200	4	4	"	
	17:00												

ARK 809
Station 1 Bausicherung
Frequenztest 145 angefallen

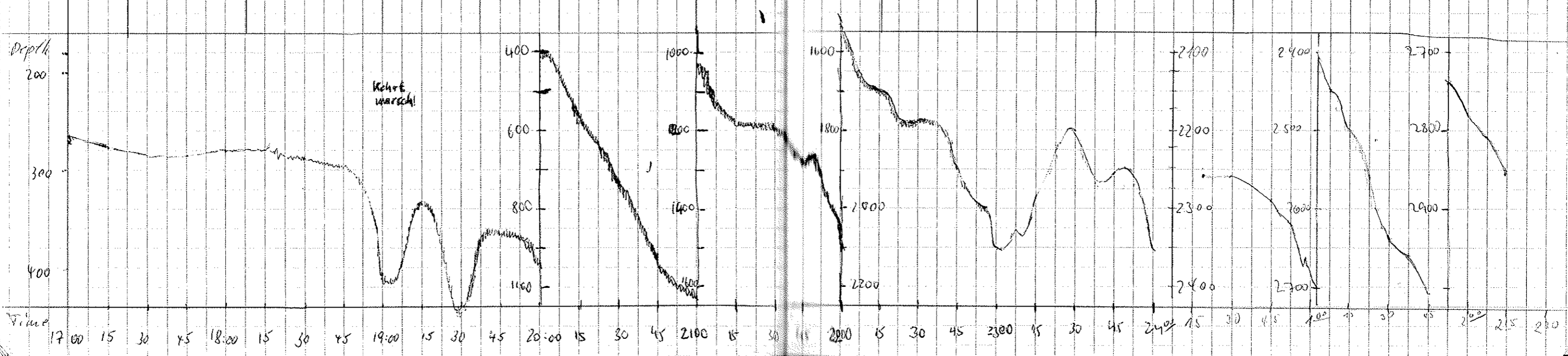
3^{er} Station beendet

Prüfung beendet

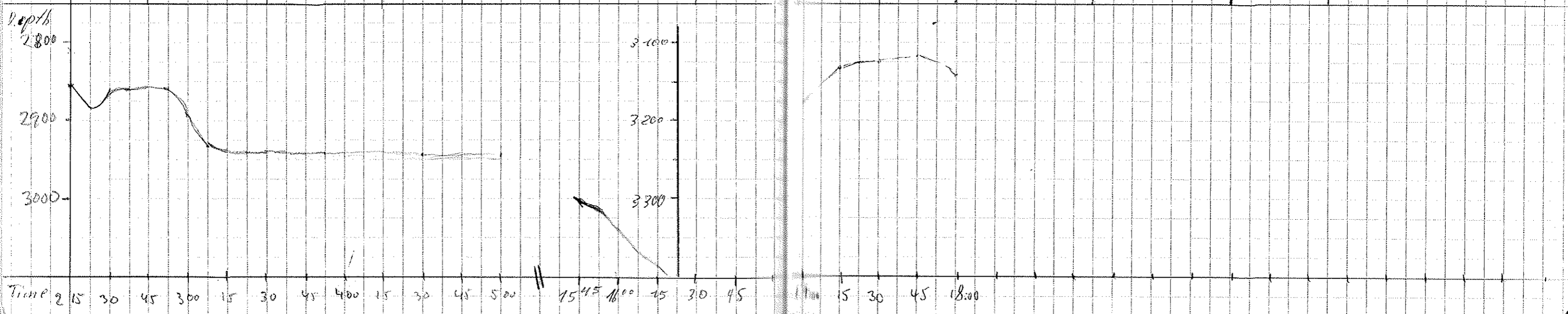
POLAR BEAR ON PORT SIDE
Charged phase 120-320 m



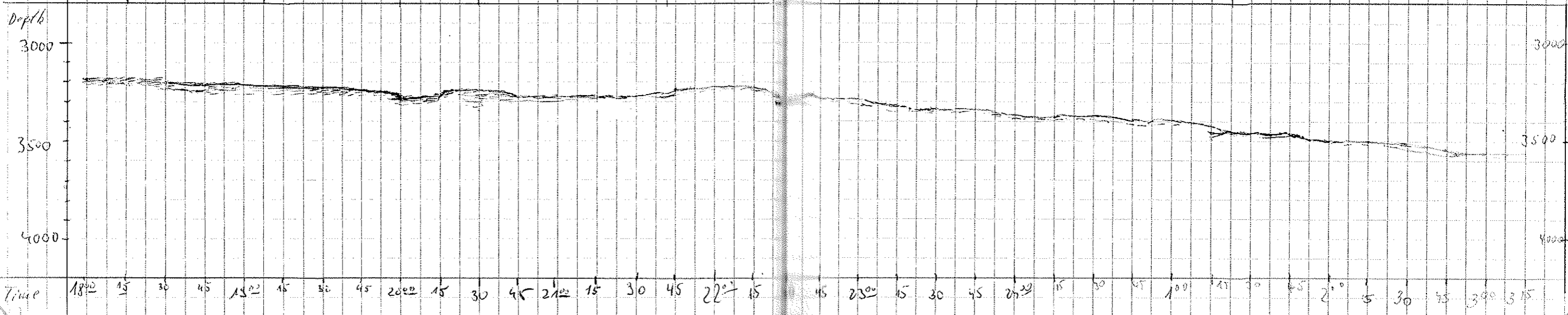
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
5.8.91	17:00	81° 23.491	29° 52.485 E	5.1	316.5	266	5	1000	200	4	4	Kassens	} Dickes Eis Rammfolgt!
	17:15	81° 24.508	29° 49.282 E	4.6	317.8	277	5	1000	200	4	4	Kassens	
	17:30	81° 24.890	29° 46.859 E	0.5	92.4	284	5	1000	200	4	x	"	
	17:45	81° 24.915	29° 47.555 E	1.0	33.5	284	5	1000	200	4	x	"	
	18:00	81° 24.987	29° 48.300 E	1.1	138.2	279	0	1000	200	4	4	"	
	18:15	81° 25.348	29° 48.639 E	7.3	4.3	230	0-5	1000	200	4	4	Bojmann	
	18:30	81° 25.84	29° 43.85	5.0	10.1	287	"	1000	200	4	4	Nowack	
	18:45	81° 24.51	29° 26.84	4.8	23.0	297							
	19:00	81° 27.78	29° 52.31	0.8	87.8	416	20						
	19:15	81° 27.24	29° 56.6	5.4	117.2	328	5						
	19:30	81° 27.77	29° 55.3	4.5	287.7	435	10						
	19:45	81° 27.53	29° 45.0	3.3	277	356							
	20:00	81° 28.03	29° 40.5	4.3	235.6	402							
	20:05	81° 29.03	29° 35.2	3.2	352.7	567	10					Spelholz	
	20:30	81° 29.8	29° 39.3	2.9	95.7	744	10					"	
	20:45	81° 30.6	29° 44.5	7.8	60.3	920	10					"	
	21:00	81° 31.4	29° 49.1	6.1	51.7	1039	20	5000				"	
	21:05	81° 32.0	29° 51.5	7	278.6	1184	20	"				"	
	21:30	81° 32.0	29° 52.6	2.6	73.2	1187	20	"				"	
	21:45	81° 32.7	29° 57.11	7.4	53.6	1284	20	"				"	
	22:00	81° 33.8	29° 57.3	6.3	6.7	1483	20	"				"	
	22:15	81° 34.67	29° 57.35	2.1	35.2	1658	20	"				Spelholz	
	22:30	81° 35.008	29° 58.535	4	68.7	1768	20	"				Stein	
	22:45	81° 35.58	30° 02.85	5.6	63.3	1925						"	
	23:00	81° 36.05	30° 04.68	2.6	289.4	2118						"	
	23:15	81° 36.65	30° 02.99	4.5	258.4	1967						"	
	23:30	81° 35.27	29° 53.88	4.7	293.6	1801	20					"	
	23:45	81° 36.05	29° 55.63	7.3	118.2	1911						"	
6.8.91	24:00	81° 36.53	30° 01.57	0.7	23.0	2158						Stein	
	0:20	81° 36.86	30° 02.28	0.3	50.6	2257			200	4	4	FREDERICUS	
	0:30	81° 36.86	30° 02.86	0.2	12.8	2258	20					"	
	0:45	81° 37.07	30° 02.52	7.5	753.5	2226	20					"	
	1:00	81° 38.16	30° 01.12	5.7	33.4	2372	20					"	
	1:15	81° 39.07	30° 03.42	3.8	28.9	2498	20					"	
	1:30	81° 40.23	30° 06.22	5.7	334.0	2636						BACKMAN	
	1:45	81° 41.13	30° 06.60	3.2	354.0	2716							
	2:00	81° 42.08	30° 02.92	2.8	353.4	2779							



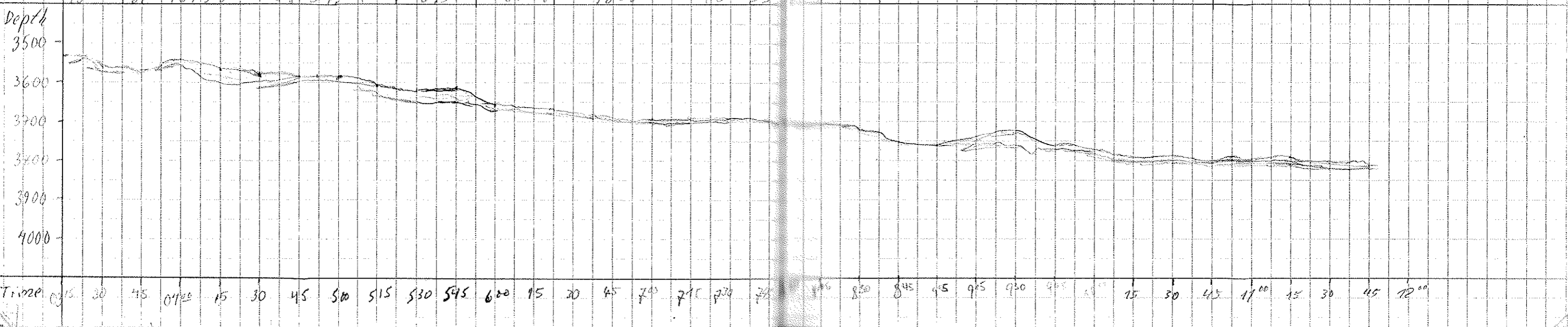
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Depth Range	Depth Scale	Parasound Frequency	Parasound # of Pulse	Name	Comments
6.8.91	2:15	81° 43, 16	30° 03, 26	4.2	9.1	2858		5000	200	4	4	BACKMAN	
	2:30	81° 43, 87	29° 59, 15	5.3	289.4	2859		"	"	"	"	"	
	2:45	81° 44, 09	29° 52, 24	3.4	282.9	2855		"	"	"	"	"	
	3:00	81° 44, 36	29° 47, 98	4.4	27.3	2898		"	"	"	"	"	Stop 30
	3:15	81° 45, 17	29° 50, 86	0.3	345.4	2938		"	"	"	"	"	↓
	3:30	81° 45, 20	29° 51, 24	0.2	143.8	2939		"	"	"	"	"	
	3:45	81° 45, 21	29° 51, 60	0.2	66.3	2940		"	"	"	"	"	
	4:00	81° 45, 22	29° 51, 99	0.2	70.1	2941		"	"	"	"	"	
	4:30	81° 45, 25	29° 52, 82	0.1	157.2	2942		"	"	"	"	Johnson	on station
	05:00	81° 45, 28	29° 53, 73	0.3	57.6	2940		"	"	"	"	"	
	05:30	81° 45, 31	29° 54, 68	0.3	70.9	2946		"	"	"	"	"	
	05:39	81° 35, 42	29° 54, 94	.3	80.1	2948		"	"	"	"	"	Box core on Bottom
	06:00	81° 35, 42	29° 55, 63	.1	93.7	2949		"	"	"	"	Bergman	Box core on bottom 10/2900m (wind)
	06:39	81° 45, 39	29° 55, 83	0.4	341.3	2953		"	"	"	"	"	
	07:00	81° 45, 38	29° 56, 28	0.6	35.5	2952		"	"	"	"	"	
	07:30	81° 45, 38	29° 57, 08	0.2	97.9	2953		"	"	"	"	"	Multicorer
	08:00	81° 45, 38	29° 57, 54	0.1	118.0	2953		"	"	"	"	"	
	08:30	81° 45, 35	29° 58, 15	0.3	137.8	2954		"	"	"	"	"	
	09:00	81° 45, 34	29° 58, 66	0.2	113.4	2956		"	"	"	"	"	
	09:30	81° 45, 32	29° 58, 13	0.3	72.0	2958		"	"	"	"	"	
	10:00	81° 45, 31	29° 58, 63	0.1	148.2	2958		"	"	"	"	"	
	10:30	81° 45, 31	29° 58, 97	0.2	76.7	2957		"	100	"	"	"	Piston core on bottom
	11:00	81° 45, 33	30° 00, 27	0.2	91.9	2960		"	100	"	"	"	
	11:30	81° 45, 34	30° 00, 65	0.1	40.8	2963		"	100	"	"	"	
	12:00	81° 45, 37	30° 00, 97	0.1	67.4	2966		"	100	"	"	"	
	13:00	81° 45, 45	30° 01, 58	0.7	13.5	2976		"	100	"	"	"	
	13:30	81° 45, 50	30° 01, 88	0.1	78.0	2981		"	100	"	"	"	
	14:00	81° 45, 55	30° 02, 41	0.2	68.1	2987		"	100	"	"	"	Long Piston core on bottom 13:58
	14:30	81° 45, 60	30° 02, 33	0.2	63.0	2989		"	100	"	"	"	Frequency
	15:00	81° 45, 64	30° 02, 57	0.3	84.9	3001		"	200	"	"	"	Station broadcast
	15:30	81° 45, 63	30° 03, 84	0.2	125.3	2930		"	200	"	"	"	
	15:45	81° 45, 91	30° 02, 99	3.3	46.8	2928		"	200	"	"	"	
	16:00	81° 46, 36	30° 05, 60	3.3	36.9	3003		"	200	"	"	"	
	16:15	81° 46, 95	30° 08, 73	4.8	29.7	3084		"	200	"	"	"	
	16:30												
	17:00	81° 49, 48	30° 22, 12	7.9	45.4	3175	10	"	"	4	4	FREDERICKS	13:16:55 Bank of Norway
	17:16	81° 49, 872	30° 30, 038E	4.5	10.1	3129		"	"	4	4	Kasrens	APV 205
	17:32	81° 50, 535	30° 33, 649E	6	35.8	3125	5	"	"	4	4	"	
	17:45	81° 50, 648	30° 34, 439E	0.1	74.7	3117	10	"	"	4	4	"	
	18:00	81° 50, 938	30° 34, 213E	3.5	323.4	3080		"	"			"	



Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
6.8.91	18 ¹⁵	81°51.42N	30°33.1E	4.3	324.7	3189	10	5000	200	4	4	Nowaczyk	
	18 ³⁰	81°51.36	30°31.5E	4.6	304.5	3195	20						
	18 ⁴⁵	81°52.46	30°28.6	0.2	105.2	3202	15						Einleiten von dirjen + steuern
	19 ⁰⁰	81°52.44	30°28.9	6.3	333.2	3207	10						Ausleiten von dirjen + steuern
	19 ¹⁵	81°53.50	30°30.53	2.3	108.1	3207	10						
	19 ³⁰	81°54.02	30°30.4	4.8	3.4	3212	10						
	19 ⁴⁵	81°55.10	30°30.0	2.7	352.5	3230	10						
	20 ⁰⁰	81°55.86	30°30.0	6.4	62.9	3236	10						
	20 ¹⁵	81°56.86	30°42.1	5.1	357.1	3239	10						
	20 ³⁰	81°57.84	30°41.7	0.4	342.8	3239	30-70						
	20 ⁴⁵	81°57.85	30°35.4	1.8	219.8	3242	15						
	21 ⁰⁰	81°58.00	30°37.5	1.5	286.8	3253	20						
	21 ¹⁵	81°58.25	30°35.1	7.6	353.4	3261	20						
	21 ³⁰	81°59.66	30°37.42	5.1	68.5	3271	20						
	21 ⁴⁵	82°00.63	30°44.38	1.7	38.6	3254	20						
	22 ⁰⁰	81°01.49	30°43.65	3.4	348.3	3259	20						
	22 ¹⁵	82°02.72	30°45.47	5.7	8.9	3259	10					Stein	
	22 ³⁰	82°03.96	30°41.38	8.6	41.0	3288	20						
	22 ⁴⁵	82°04.82	30°41.38	0.1	18.8	3288	20						2240-2250 Schiff steht
	23 ⁰⁰	82°05.13	30°41.23	5.9	338.2	3293	20						
	23 ¹⁵	82°06.68	30°37.63	10.2	338.9	3312	20						
	23 ³⁰	82°06.43	30°37.20	3.6	162.5	3315	20						2318-2328 Schiff steht
	23 ³⁷												
	23 ⁵⁹												
	24 ⁰⁰	2nd forecast gesetzt	Neustart										
	24 ⁰⁰	82°07.44	30°33.07	2.1	375.7	3333	20					Stein	Einrichtung nicht tief, alle Messungen sauber, geschicktes Echo Reimmfahrt
7.8.91	24 ¹⁵	82°08.06	30°25.32	0.2	313.3	3361	15-20					FREDERIKUS	
	24 ³⁰	82°08.08	30°23.92	6.6	300.2	3360	15-20						
	24 ⁴⁵	82°08.70	30°19.44	4.7	146.1	3383	15-20						
	24 ⁵⁵	82°09.15	30°11.89	6.2	312.7	3395	15-20						
	25 ¹⁵	82°09.48	30°11.37	8.1	274.5	3422	10						
	25 ³⁰	82°10.85	30°10.50	7.4	5.5	3440	10-15						
	25 ⁴⁵	82°12.14	30°07.96	6.9	325.4	3468	15-20						
	26 ⁰⁰	82°13.13	30°02.64	7.7	24.3	3494	15						
	26 ¹⁵	82°13.58	30°03.80	6.0	10.1	3500						WARD	
	26 ³⁰	82°17.85	30°02.26	6.3	311.9	3511							
	26 ⁴⁵	82°16.05	29°53.33	5.2	353.2	3530							
	27 ⁰⁰	82°17.28	29°56.44	6.4	8.0	3549							
	27 ¹⁵	82°18.17	29°58.90	6.9	62.3	3541							



Date	Time	Latitude	Longitude	Speed	Course	Waterdepth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
7.8.91	03 30	82° 19.20	29° 59.79	7.0	348.9	3555		5000	200	4	4	GARD	
	3 45	82° 19.94	29° 59.17	1.0	348.8	3573		"	"	"	"	"	
	4 00	82° 20.76	30° 01.66	4.8	357.7	3548		"	"	"	"	"	
	4 15	82° 21.44	30° 04.05	2.9	1.7	3560	20	"	"	"	"	Jodrey	
	4 30	82° 22.64	30° 02.89	.8	27.9	3576	15	"	"	"	"	"	
	4 45	82° 23.17	30° 02.82	5.4	12.0	3583	10	"	"	"	"	"	
	5 00	82° 24.04	30° 06.17	6.1	34.9	3585	10	"	"	"	"	"	
	5 15	82° 25.10	30° 06.42	7.3	8.7	3605	5	"	"	"	"	"	
	5 30	82° 26.24	30° 00.15	5.9	343.9	3638		"	"	"	"	"	
	5 45	82° 27.23	30° 02.75	5.4	349.5	3638	15	"	"	"	"	"	
	6 00	82° 27.26	29° 59.11	3.5	305.1	3655	10	"	"	"	"	"	
	6 15	82° 28.66	29° 53.77	8.1	276.4	3674	10	"	"	"	"	Stimbe, b	
	6 30	82° 29.08	29° 49.10	2.7	43.5	3684	20	"	"	"	"	"	
	6 45	82° 29.74	29° 55.60	5.0	87.9	3682	18	"	"	"	"	"	
	7 00	82° 30.50	29° 58.23	4.4	30.6	3697	20	"	"	"	"	"	
	7 15	82° 31.64	29° 57.79	7.5	222	3692	20	"	"	"	"	"	
	7 30	82° 32.84	30° 02.44	7.8	81	3697	18	"	"	"	"	"	
	7 45	82° 33.83	30° 12.62	6.0	69	3697	5	"	"	"	"	"	
	8 00	82° 34.56	30° 14.52	4.7	310.9	3697	20	"	"	"	"	"	
	8 15	82° 35.56	30° 08.92	7.5	295.1	3718	20	"	"	"	"	"	
	8 30	82° 36.906	30° 06.36	1.1	216.2	3733	20	"	"	"	"	"	
	8 45	82° 37.69	29° 59.59	8.4	354.3	3754	20	"	"	"	"	"	
	9 05	82° 39.63	30° 04.23	2.7	61.4	3758	15	"	"	"	"	"	
	9 15	82° 39.59	30° 06.48	5.1	14.7	3751	15	"	"	"	"	"	
	9 30	82° 40.43	30° 01.88	10.8	314.8	3751	25	"	"	"	"	"	
	9 45	82° 41.69	29° 58.16	4.4	192.7	3659	40	"	"	"	"	"	
	10 00	82° 42.03	29° 54.37	6.3	336.5	3726	40	"	"	"	"	"	
	10 15	82° 42.35	29° 59.50	6.8	346.9	3778	40	"	"	"	"	"	
	10 30	82° 42.30	29° 52.60	4.2	272.3	3789	40	"	"	"	"	"	
	10 45	82° 43.35	29° 45.86	0.8	285.6	3794	25	"	"	"	"	"	
	11 00	82° 43.60	29° 48.35	8.0	28.9	3793	10-15	"	"	"	"	"	
	11 15	82° 44.32	29° 50.77	5.5	75.5	3793	15-25	"	"	"	"	"	
	11 30	82° 45.45	29° 31.20	3.4	77.3	3803	25-30	"	"	"	"	"	
	11 45	82° 46.50	29° 53.42	3.5	172.4	3810	10	"	100	"	"	"	
	11 52	82° 46.48	29° 53.26	2.6	147.9	24.0	10	"	100	"	"	"	
	12 30	82° 46.50	29° 53.54	0.1	144.6	3809	10	"	100	"	"	"	Station
	13 00	82° 46.53	29° 53.39	0.1	162.0	3810	10	"	100	"	"	"	
	13 30	82° 46.55	29° 54.10	0.4	246.8	3810	10	"	100	"	"	"	
	14 00	82° 46.56	29° 55.30	0.2	117.1	3810	10-15	"	"	"	"	"	
	14 30	82° 46.56	29° 56.01	0.0	48.1	3808	10-15	"	"	"	"	"	
	15 00	82° 46.58	29° 57.01	0.3	98.9	3805	20-25	"	"	"	"	"	



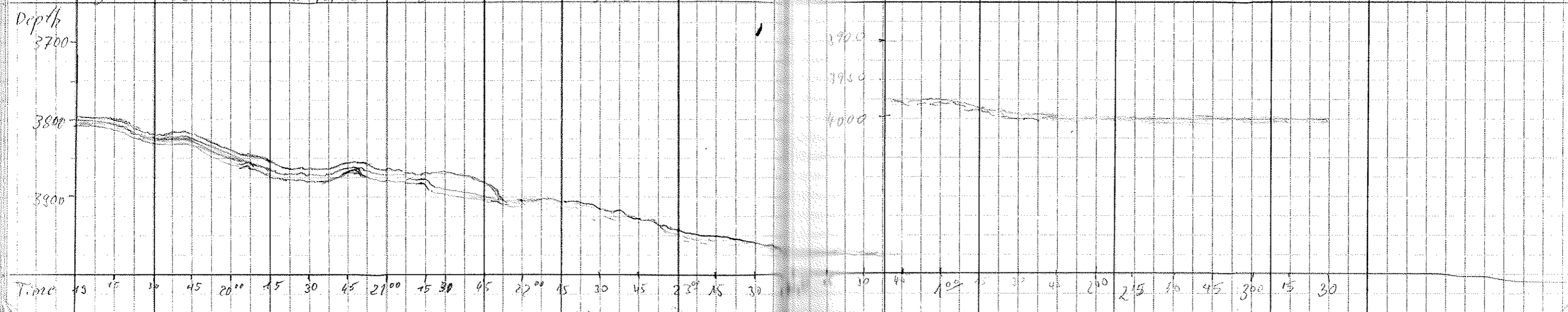
↓ Rolle 2

Deso
Papierwechsel
Kurs auf dem Markt
Vertrieb, Deso
an/aus. Alles ok.
2 Programme. Neustart
im 8.10

Beigmann
V. S. 2

Station

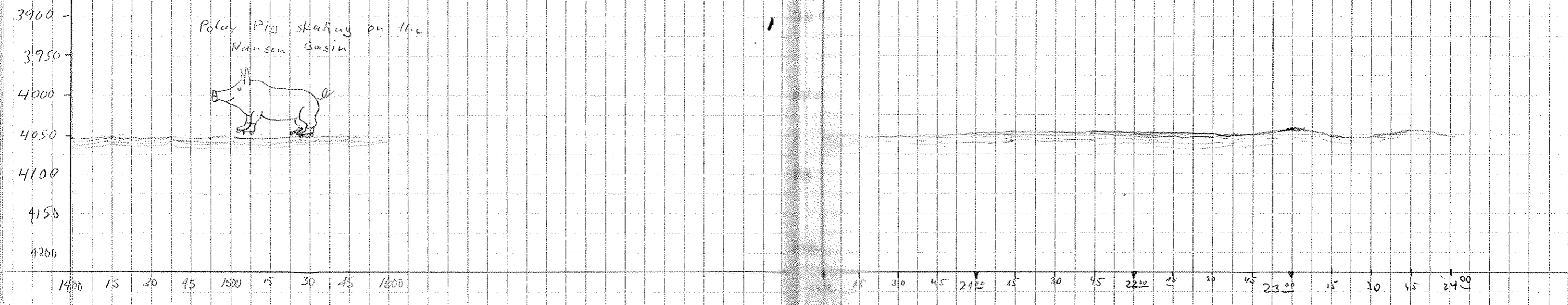
Date	Time	Latitude	Longitude	Speed	Course	Waterdepth	Range	Scale	Frequency	# of Pulses	Name	Comments
07.08.97	15:30	82° 46.50	29° 58.16	0.7	352.3	3804	20	100	"	"	Bergmann	
	16:00	82° 46.45	29° 59.23	0.3	125.3	3802	20-25	"	"	"	"	
	16:30	82° 46.37	30° 00.16	0.4	144.6	3798	20-25	"	"	"	"	
	17:00	82° 46.28	30° 01.03	0.3	143.5	3798	20-25	"	"	"	"	
	17:30	82° 46.20	30° 01.74	0.3	143.3	3796	20-25	"	"	"	"	
	18:05	82° 46.08	30° 02.5	0.2	140.1	3793	20-25	"	"	"	"	
	18:45	82° 45.93	30° 03.17	0.2	138.3	3790	"	"	"	"	Spielvogel	1900 Station beendet
	19:00	82° 45.86	30° 03.33	0.2	136.5	3790	20	"	"	"	"	
	19:15	82° 46.76	30° 03.27	5.4	346.4	3798	10-20	5000	200	"	"	
	19:30	82° 47.70	30° 00.55	3.2	235.8	3818	10-20	"	"	"	"	
	19:45	82° 48.52	30° 06.58	5.7	47.6	3821	20-25	"	"	"	Bergmann	
	20:00	82° 49.80	30° 03.02	3.8	358.4	3831	15-20	"	"	"	"	
	20:15	82° 51.22	30° 02.31	9.9	10.4	3851	15-25	"	"	"	Bergmann	
	20:30	82° 52.37	30° 02.02	6.4	295.7	3863	15-25	"	"	"	"	
	20:45	82° 52.66	30° 07.16	0.8	165.8	3855	15-25	"	"	"	"	
	21:00	82° 53.81	30° 06.79	3.7	9.2	3860	15-25	"	"	"	"	
	21:15	82° 54.53	30° 08.28	5.2	352.2	3862	15-25	"	"	"	"	
	21:30	82° 55.57	30° 09.10	9.2	333.4	3869	25-35	"	"	"	Spielvogel	
	21:42	82° 56.85	30° 08.27	2.6	350.7	3887	25-30	"	"	"	Bergmann	
	22:00	82° 57.72	30° 07.09	4.1	321.5	3806	15-25	"	"	"	"	
	22:15	82° 58.28	30° 02.79	7.9	3.7	3904	15-25	"	"	"	Stein	
	22:30	83° 00.19	29° 57.74	9.0	330.7	3916	15-25	"	"	"	"	
	22:45	83° 01.43	29° 52.21	8.3	352.5	3932	20	"	"	"	"	
	23:00	83° 02.82	29° 52.29	11.6	345.9	3942	15-25	"	"	"	"	
	23:15	83° 04.28	29° 51.39	5.8	339.0	3950	25	"	"	"	"	
	23:30	83° 05.82	29° 44.94	8.0	333.2	3963	15	"	"	"	"	
	23:45	83° 06.72	29° 47.52	4.5	305.9	3969	15	"	"	"	"	
	23:56	83° 07.13	29° 50.59	7.6	44.2	3928	15	"	"	"	FRUBER	Bauk... ..
8.8.97	0:30	83° 08.64	29° 44.93	.2	329.7	3975	15-20	"	"	"	"	
	0:45	83° 08.58	29° 45.00	1.1	328.1	3975	"	"	"	"	"	
	1:00	83° 09.05	29° 44.48	8.5	327.7	3977	"	"	"	"	"	
	1:15	83° 09.90	29° 33.10	3.3	276.3	3982	"	"	"	"	"	
	1:30	83° 10.64	29° 31.06	4.2	58.1	3985	20	"	"	"	"	
	1:45	83° 11.32	29° 38.96	5.6	28.3	3985	25	"	"	"	"	
	2:00	83° 12.30	29° 40.58	1.5	5.3	3988	20	"	"	"	GARD	
	2:15	83° 13.27	29° 38.59	3.8	316.6	3991	15-20	"	"	"	"	
	2:30	83° 13.16	29° 36.09	8.6	30.6	3996	15-20	"	"	"	"	
	2:45	83° 14.17	29° 45.28	8.5	79.0	3992	15-20	"	"	"	"	
	3:00	83° 15.14	29° 52.10	5.2	350.3	3990	15-20	"	"	"	"	
	3:15	83° 16.76	29° 49.90	5.7	320.3	3996	"	"	"	"	"	
	3:30	83° 17.27	29° 46.36	5.7	0.6	3995	"	"	"	"	"	



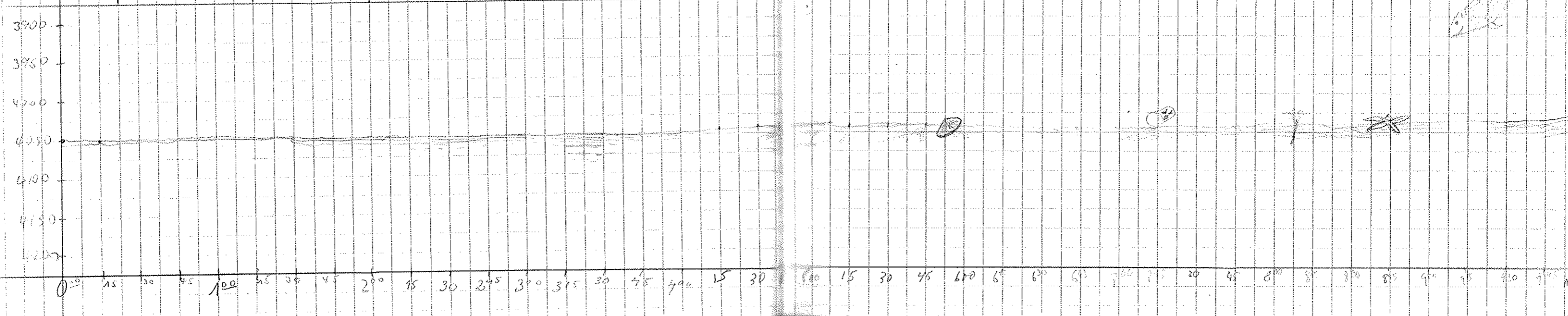
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Depth	Frequency	# of Pulses	Name	Comments
08.08.91	03:45	83° 17.84	29° 42.47	8.6	294.5	3998	15-20	5000	200	40	1	GARD	
	04:00	83° 18.96	29° 53.01	12.1	335.2	4005	"	"	"	"	"		
	04:15	83° 21.17	29° 32.37	3.7	335.8	4003	25	"	"	"	"	Godrey	
	04:30	83° 21.35	29° 30.86	0.6	316.5	4001	20	"	"	"	"		
	04:45	83° 21.61	29° 27.81	6.2	346.7	4004	20	"	"	"	"		
	05:00	83° 23.06	29° 26.87	4.4	47.8	4010	15	"	"	"	"		
	05:15	83° 23.74	29° 22.57	1.5	337.5	4021	10	"	"	"	"		
	05:30	83° 24.20	29° 27.01	6.3	53.9	4118	10	"	"	"	"		
	05:45	83° 25.89	29° 31.73	1.7	35.9	4026	15	"	"	"	"	Godrey	
	06:00	83° 26.91	29° 36.35	3.7	51.7	4027	25	"	"	"	4	Subant	
	06:15	83° 28.64	29° 36.38	10.4	832.8	4087	25	"	"	"	"		
	06:30	83° 30.19	29° 38.01	7.0	344	4040	25	"	"	"	"		
	06:45	83° 31.21	29° 35.39	2.0	304.9	4044	30	"	"	"	"		
	07:00	83° 31.696	29° 26.50	5.6	290.1	4043	30	"	"	"	"		
	07:15	83° 32.111	29° 21.15	0.9	259.2	4049	25	"	"	"	"		
	07:30	83° 32.27	29° 20.81	5.5	53	4040	20	"	"	"	"		
	07:45	83° 32.58	29° 21.93	2.6	33.3	4050	25	"	"	"	"		
	08:00	83° 34.29	29° 23.32	5.9	345.8	4051	20	"	"	"	"	Be-guacum	
	08:15	83° 35.81	29° 24.44	4.3	43.2	4051	20-25	"	"	"	"		
	08:30	83° 37.42	29° 22.93	6.6	27.1	4054	20-25	"	"	"	"		
	08:45	83° 38.09	29° 26.76	3.0	72.5	4054	20-25	"	"	"	"		
	09:00	83° 38.76	29° 32.76	6.0	20.4	4054	20-30	"	"	"	"		
	09:15	83° 39.07	29° 33.44	4.5	350.4	4054	25-35	"	"	"	"		
	09:30	83° 40.78	29° 30.94	2.8	357.9	4054	25-35	"	"	"	"		
	09:45	83° 40.18	29° 38.65	0.1	261.3	4054	25-35	"	"	"	"		
	10:00	83° 40.75	29° 38.57	0.2	199.2	4054	4	"	"	"	"		
	10:15	83° 40.79	29° 42.04	7.2	30.0	4054	5	"	"	"	"	Kran	
	10:30	83° 41.73	29° 44.64	9.3	55.4	4054	7	"	"	"	"		
	10:45	83° 43.17	29° 49.90	5.6	51.3	4055	5	"	"	"	"		
	11:00	83° 45.04	29° 57.14	9.2	17.2	4055	5	"	"	"	"		
	11:15	83° 46.64	30° 12.67	8.7	36.0	4054	5	"	"	"	"		
	11:30	83° 48.29	30° 15.45	11.0	293.1	4054	5	"	"	"	"		
	11:45	83° 49.14	30° 19.69	4.6	81.3	4054	5	"	"	"	"		
	12:00	83° 50.07	30° 19.17	3.6	344.4	4055	5	"	"	"	"	Godrey	
	12:15	83° 50.61	30° 12.91	2.7	328.7	4056	20-25	"	"	"	"		
	12:30	83° 51.55	30° 12.92	7.9	31.9	4056	20-25	"	"	"	"		
	12:45	83° 52.05	30° 12.87	1.4	153.9	4056	25-30	"	"	"	"	Man-lita	
	13:00	83° 52.84	30° 17.50	7.7	348.8	4055	30-35	"	"	"	"		
	13:15	83° 53.19	30° 22.37	3.5	55.4	4056	30-35	"	"	"	"		
	13:30	83° 53.69	30° 24.58	3.5	41.6	4052	25-30	"	"	"	"		
	13:45	83° 54.40	30° 25.77	6.3	293.7	4054	25-30	"	"	"	"		



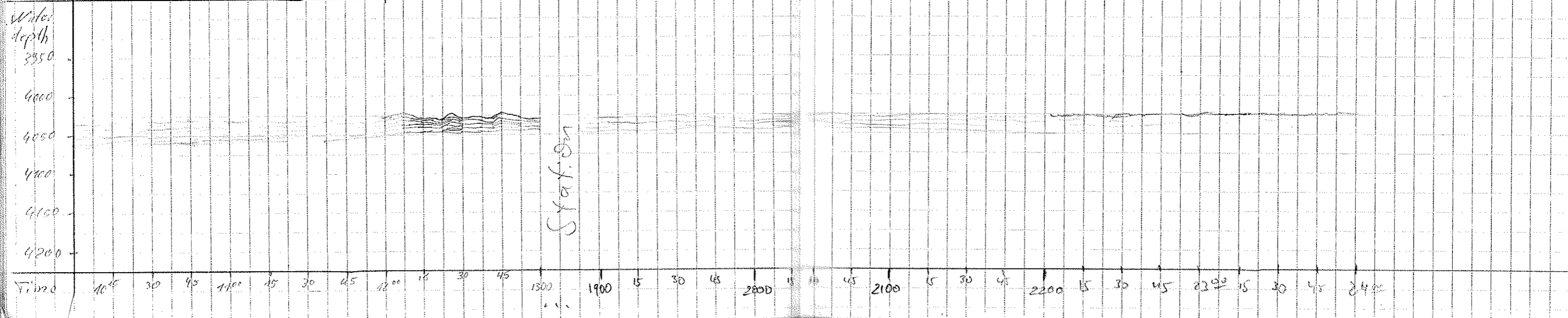
Date	Time	Lat. Tude	Longitude	Speed	Course	Water depth	Penetration	DESCO Range	DESCO Scale	Parasound Frequency	Parasound # of Pulses	Name	Comments
08.08.91	1400	83°55.05 N	30°23.40 E	0.8	49.6	4055	25-30	5000	200	4	4	Mushner	
	1415	83°55.81	30°22.83	4.8	357.6	4056	25-30	5000	200	4	4	MUSHNER	
	1430	83°56.70	30°25.33	0.7	190.1	4055	25-30	5000	200	4	4	"	
	1445	83°56.603	30°29.06	1.6	336.4	4054	25-30	5000	200	4	4	"	
	1450	83°57.27	30°25.16	4.4	342.0	4055	25-30	5000	200	4	4	"	
	1515	83°57.73	30°27.62	4.3	56.2	4054	25-30	5000	200	4	4	"	
	1530	83°58.20	30°29.64	4.0	118.4	4054	25-30	5000	200	4	4	"	
	1545	83°58.53	30°25.19	1.8	323.6	4056	25-30	5000	200	4	4	"	
	1600												
	1615	83°59.369	30°27.095										
	1635	83°59.39	30°28.06	3.4	33.3	4054	25-30	"	"	"	4		Station, registration off
	1726										"		registration on/sea
	1745	83°59.47	30°29.06	0.2	29.2	"	25-30	"	"	"	"		Fahrt wieder aufgenommen
	1800	83°59.38	30°28.8	0.2	134.5	4054	25-30	"	"	"	"		
	1845	83°59.26	30°28.5	0.1	205.7	4054	25-30	"	"	4	1	Nowaczyk	stop station
	1900	83°59.21	30°28.36	0.2	191.2	"	"	"	"	4	1		
	1950	83°59.07	30°27.9	0.2	190.0	4054	25-30	"	"	4	1		
	2000	83°59.05	30°27.9	0.1	190.6	"	"	"	"	"	1		
3.8.31	840	83°57.66	30°22.5	0.2	204.0	4055	30	"	"	4	1		ARK 207
	1920	83°57.42	30°27.1	0.0	256.1	4055	"	"	"	4	1		Bauschildung
	1935	83°56.75	30°16.97	0.0		4056	30	"	"	4	1		10 th work station
	1950	83°56.4	30°16.6	0.2	180.3	4056	30	"	"	4	1	Nowaczyk	Alle 300 S wird t.
	1915	83°56.3	30°15.8	0.2	211.3	4056	30	"	"	4	1		Seismogramm geschribt
	2015	83°53.18	30°15.04	3.0	28.3	4056	"	"	"	4	4	Berg	1340 Forderungst
	2030	83°56.9	30°24.1	3.3	42.3	4055	25	5000	200	4	4	Nowaczyk	20 th bounded
	2045	83°57.5	30°31.3	7.1	56.1	4053	25	5000	200	4	4		Station Ende
	2100	83°58.3	30°43.2	6.8	43.0	4049	25	1	1	4	4		
	2115	83°59.2	30°44.1	6.4	353.4	4048	25	1	1	4	4		
	2130	84°00.2	30°55.0	7.5	73.8	4053	25	1	1	4	4		
	2145	84°01.2	31°01.4	8.4	31.1	4054	25	1	1	4	4		
	2200	84°02.2	31°10.7	4.4	50.5	4055	25	1	1	4	4		
	2215	84°03.8	31°15.1	6.8	11.0	4052	25	1	1	4	4		
	2230	84°04.7	31°26.4	1.5	37.1	4056	25-30	1	1	4	4		
	2245	84°05.65	31°30.56	6.6	11.6	4054	25-30	"	"	4	4	Stein	
	2300	84°07.06	31°35.61	3.8	42.3	4032	30	"	"	4	4		
	2315	84°07.23	31°47.05	6.9	71.3	4054	25-30	"	"	4	4		
	2330	84°07.63	31°58.56	4.9	24.7	4054	25-30	"	"	4	4		
	2345	84°08.42	32°06.50	2.2	11.0	4034	25-30	"	"	4	4		
	2400	84°09.25	32°17.18	4.5	329.9	4052	25-30	"	"	4	4	Stein	



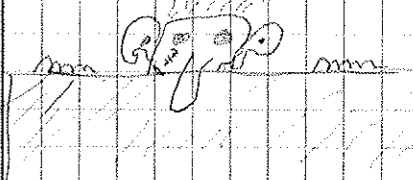
DATE	TIME	LATITUDE	LONGITUDE	SPEED	COURSE	WATERDEPTH	PENETRATION	RANGE	DESO	SCALE	PARASOUND FREQUENCY	# OF PULSES	NAME	COMMENTS
10.8.91	0 15	84° 10.26 N	32° 21.55 E	3.4	50.4	4052	25-30	5000		200	4	4	FREDECHIS	
	0 30	84° 10.77	32° 31.71	5.1	37.1	4051	25	"		"	"	"		
	0 45	84° 11.11	32° 34.02	5.1	34.3	4050	25	"		"	"	"		
	1 00	84° 13.45	32° 43.45	9.4	25.7	4049	20	"		"	"	"		
	1 15	84° 14.71	32° 49.22	7.2	5.1	4050	20-25	"		"	"	"		
	1 30	84° 15.77	32° 49.56	4.7	33.9	4051	25-30	"		"	"	"		
	1 45	84° 16.39	32° 56.98	6.4	31.7	4050	25-30	"		"	"	"		
	2 00	84° 17.54	33° 02.10	3.9	312.3	4051	"	"		"	"	"	GARD	
	2 15	84° 18.37	33° 58.63	5.4	47.4	4048	"	"		"	"	"	"	
	2 30	84° 19.43	33° 06.97	5.3	41.1	4050	"	"		"	"	"	"	
	2 45	84° 19.99	33° 15.46	4.2	76.9	4046	"	"		"	"	"	"	
	3 00	84° 20.93	33° 21.86	5.2	360.0	4049	"	"		"	"	"	"	
	3 15	84° 21.78	33° 26.19	7.1	77.7	4053	"	"		"	"	"	"	
	3 30	84° 22.63	33° 37.92	7.0	61.7	4048	30-35?	"		"	"	"	"	
	3 45	84° 23.53	33° 40.69	7.3	55.5	4047	25-30	"		"	"	"	"	
	4 00	84° 24.20	33° 48.72	3.5	57.8	4047	20-25	"		"	"	"	"	
	4 15	84° 24.93	34° 00.57	5.1	49.2	4047	20	"		"	"	"	godrey	
	4 30	84° 25.89	34° 11.51	7.0	36.4	4045	20-25	"		"	"	"	"	
	4 45	84° 26.44	34° 19.91	7.9	26.3	4046	25	"		"	"	"	"	
	5 00	84° 27.42	34° 26.12	6.2	69.8	4045	25	"		"	"	"	"	
	5 15	84° 28.17	34° 37.80	5.5	7.1	4040	15	"		"	"	"	"	
	5 30	84° 29.60	34° 43.24	5.8	32.8	4042	25	"		"	"	"	"	
	5 45	84° 30.77	34° 51.07	4.6	69.0	4043	25	"		"	"	"	"	
	6 00	84° 32.45	34° 56.45	5.9	82.9	4043	24-27	"		"	"	"	debut	
	6 15	84° 33.89	35° 08.66	8.0	20.4	4042	25	"		"	"	"	"	
	6 30	84° 34.97	35° 19.73	5.4	31.3	4042	20	"		"	"	"	"	
	6 45	84° 35.27	35° 28.84	5.3	25.5	4041	20	"		"	"	"	"	
	7 00	84° 35.95	35° 41.07	7.6	32.8	4040	30	"		"	"	"	"	
	7 15	84° 37.50	35° 48.55	8.7	11.2	4039	22	"		"	"	"	"	
	7 30	84° 38.62	36° 00.72	5.6	27.8	4036	20	"		"	"	"	"	
	7 45	84° 39.39	36° 11.49	11.3	47.5	4037	20	"		"	"	"	"	
	8 00	84° 40.62	36° 23.86	5.2	107.9	4037	20	"		"	"	"	"	
	8 15	84° 40.44	36° 28.56	2.0	40.2	4034	30	"		"	"	"	Ward	
	8 30	84° 41.55	36° 35.02	4.7	55.5	4036	30	"		"	"	"	"	
	8 45	84° 41.98	36° 43.70	4.3	20.7	4034	30	"		"	"	"	"	
	9 00	84° 42.98	36° 49.14	11.7	55.3	4032	30	"		"	"	"	"	
	9 15	84° 43.79	36° 59.63	8.3	74.1	4032	30	"		"	"	"	"	
	9 30	84° 43.87	37° 03.73	0.8	50.4	4031	30	"		"	"	"	"	
	9 45	84° 44.63	37° 13.99	4.8	84.5	4029	30	"		"	"	"	"	
	10 00	84° 44.88	37° 21.04	5.1	22.1	4025	30	"		"	"	"	"	

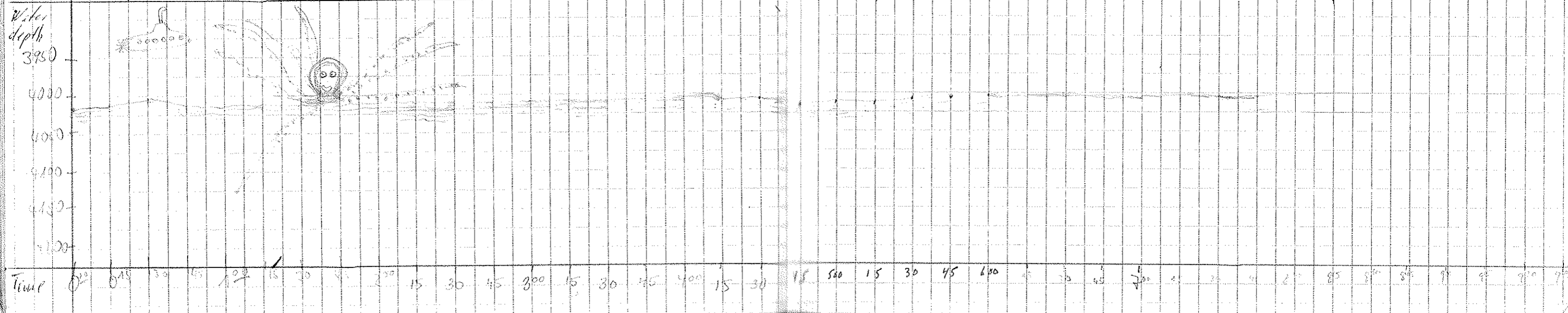


Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Period Frequency	Range # of pulses	Name	Comments
10 08	10:15	84° 45.74 N	37° 27.70 E	4.1	14.5	4032	20-25	5000	200	4	4	Bergmann	
	10:30	84° 46.80	37° 32.93	2.4	62.4	4030	20-25	"	"	"	"	"	
	10:45	84° 47.19	37° 41.92	9.1	16.6	4029	"	"	"	"	"	"	
	11:00	84° 48.63	37° 39.26	2.8	350.3	4030	"	"	"	"	"	"	
	11:15	84° 49.85	37° 37.72	4.3	50.6	4031	"	"	"	"	"	"	
	11:30	84° 50.93	37° 40.47	3.2	42.9	4030	"	"	"	"	"	"	
	11:45	84° 51.23	37° 48.59	4.6	78.3	4030	"	"	"	"	"	"	
	12:00	84° 51.52	37° 59.77	0.7	1.0	4030	"	"	"	"	"	"	
	12:15	84° 51.875	38° 07.387	1.0	85.0	4029	22-28 m	5000	200	4	4	MORAN	
	12:30	84° 52.590	38° 06.601	0.4	10.6	4029	22-28 m	5000	200	4	4	"	
	12:45	84° 53.066	38° 05.203	0.5	33.3	4023	22-28 m	5000	200	4	4	"	Stopped @ 12:36 and
	13:00	84° 53.029	37° 57.881	1.3	239.8	4029	22-28 m	5000	200	4	4	"	backed up
	13:20	84° 53.0	37° 57.3 E	0.2	128.9	4029	20-30 m	5000	50	4	4	Nowaczyk	on station @ 1300
	13:48	84° 52.74	37° 55.73	0.1	225.1	4029	"	"	"	"	"	"	changed data storage interval to 300
	18:00	84° 52.59	37° 53.17	0.3	204.6	4029	"	"	"	"	"	"	Spelling
	18:15	84° 52.58	37° 52.58	0.2	222.6	4029	"	"	"	"	"	"	"
	18:25	84° 52.6 N	37° 52.6	0.1	253.7	4029	"	"	200	4	4	Nowaczyk	
	18:45	84° 52.57 N	37° 52.15	0.2	74.3	4029	"	"	"	"	"	"	Spelling
	19:00	84° 52.97 N	37° 49.67	0.3	358.3	4029	"	"	"	"	"	"	Station broadcast 1847
	19:15	84° 53.94 N	37° 55.00	0.1	27.2	4025	"	"	"	"	"	"	"
	19:30	84° 53.16 N	37° 58.47	0.1	331.2	4028	"	"	"	"	"	"	"
	19:45	84° 53.29 N	37° 56.08	2.8	331.7	4029	"	"	"	"	"	"	"
	20:00	84° 53.28 N	38° 04.82	6.2	49.7	4028	"	"	"	"	"	"	"
	20:15	84° 53.15 N	38° 11.64	2.4	61.0	4028	"	"	"	"	"	"	"
	20:30	84° 53.60 N	38° 17.27 E	1.4	86.1	4025	"	"	"	"	"	"	"
	20:45	84° 53.19 N	38° 26.49 E	3.8	97.6	4026	"	"	"	"	"	"	"
	21:00	84° 53.89 N	38° 36.51	5.6	47.8	4027	"	"	"	"	"	"	"
	21:15	84° 53.55 N	38° 44.56 E	5.9	72.1	"	"	"	"	"	"	"	"
	21:30	84° 53.72 N	38° 48.66 E	6.6	17.1	4024	"	"	"	"	"	"	Spelling
	21:45	84° 53.87 N	38° 47.40	4.8	347.9	4026	"	"	"	"	"	"	"
	22:00	85° 00.44 N	38° 47.21	5.1	54.6	"	"	"	"	"	"	"	"
	22:15	85° 01.54 N	38° 57.62	7.4	13.3	4025	"	"	"	"	"	"	STAS
	22:30	85° 02.42	39° 06.48	7.8	24.1	4025	"	"	"	"	"	"	"
	22:45	85° 03.29	39° 11.62	4.9	23.3	4025	"	"	"	"	"	"	"
	23:00	85° 04.13	39° 27.15	8.0	58.8	4025	"	"	"	"	"	"	"
	23:15	85° 04.73	39° 29.09	4.3	75.6	4024	"	"	"	"	"	"	"
	23:30	85° 05.40	39° 40.51	7.6	41.1	4021	"	"	"	"	"	"	"
	23:45	85° 06.28	39° 49.93	6.2	36.2	4024	"	"	"	"	"	"	"
	00:00	85° 07.25	40° 00.96	3.1	77.3	4021	"	"	"	"	"	"	"



Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Dist. Range	Dist. Scale	Waveband Frequency	Dist. # of Pulses	Name	Comments
11.8.91	0:15	85° 07.89	42° 27.42	5.3	66.7	4002	25-30	500	200	"	"	FREDERICKS	
	0:30	85° 08.38	40° 21.81	3.3	66.8	4003	25-30	"	"	"	"	"	
	0:45	85° 08.54	40° 26.00	3.8	246	4019	"	"	"	"	"	"	
	1:00	85° 08.64	40° 26.15	4.0	372.1	4019	"	"	"	"	"	"	
	1:15	85° 09.86	40° 26.06	5.6	345.3	4017	"	"	"	"	"	"	
	1:30	85° 11.02	40° 25.77	5.0	358.4	4017	"	"	"	"	"	"	
	1:45	85° 12.19	40° 25.29	3.4	33.1	4017	"	"	"	"	"	"	
	2:00	85° 12.95	40° 37.38	4.0	55.6	4076	20	"	"	"	"	GARD	
	2:15	85° 13.42	40° 20.39	0.1	190.0	4075	20-25	"	"	"	"	"	
	2:30	85° 13.47	40° 40.89	1.8	357.9	4077	25-30	"	"	"	"	"	
	2:45	85° 13.73	40° 40.72	0.1	179.8	4075	"	"	"	"	"	"	
	3:00	85° 13.87	40° 40.62	3.3	143.5	4075	"	"	"	"	"	"	
	3:15	85° 13.95	40° 39.89	1.7	352.0	4075	"	"	"	"	"	"	
	3:30	85° 14.91	40° 50.00	6.3	44.8	4075	"	"	"	"	"	"	
	3:45	85° 15.50	40° 57.84	6.7	39.7	4075	"	"	"	"	"	"	
	4:00	85° 16.53	41° 08.81	6.6	77.0	4072	"	"	"	"	"	"	
	4:15	85° 17.75	41° 20.55	41.0	350.8	4074	"	"	"	"	"	"	
	4:30	85° 19.44	41° 30.25	4.8	30.2	40110	"	"	"	"	"	"	
	4:45	85° 19.48	41° 43.81	8.7	45.2	4008	20-25	"	"	"	"	"	
	5:00	85° 20.32	41° 52.72	5.1	23.9	4121	20	"	"	"	"	"	
	5:15	85° 20.33	42° 04.12	3.3	33.8	4011	20-25	"	"	"	"	"	
	5:30	85° 21.25	42° 11.77	8.4	53.2	4011	15	"	"	"	"	"	
	5:45	85° 21.85	42° 33.63	9.1	96.2	4009	20	"	"	"	"	"	
	6:00	85° 21.97	42° 52.62	9.3	72.9	4007	15-20	"	"	"	"	"	
	6:15	85° 24.85	42° 05.64	5.9	0.2	4008	25	"	"	"	"	Schubert	
	6:30	85° 25.16	43° 02.64	3.3	85.8	4007	15-20	"	"	"	"	"	
	6:45	85° 25.17	43° 11.72	2.2	51.2	4007	20	"	"	"	"	"	
	7:00	85° 26.09	43° 33.63	4.7	40.9	4007	15	"	"	"	"	"	
	7:15	85° 26.42	43° 42.43	10.7	32	4005	20	"	"	"	"	"	
	7:30	85° 26.73	43° 56.60	3.6	322.3	3976	20	"	"	"	"	W. S. ...	
	7:45	85° 26.70	44° 05.65	7.2	81.3	4004	20	"	"	"	"	"	
	8:00	85° 26.61	44° 11.75	4.9	265.3	4005	20	"	"	"	"	"	
	8:15	85° 27.09	44° 20.49	0.2	41.4	4006	"	"	"	"	"	"	
	8:30	85° 27.20	44° 30.13	0.1	17.8	4002	"	"	"	"	"	"	
	8:45	85° 27.53	44° 30.37	0.1	252.8	4001	"	"	"	"	"	"	
	9:00	85° 27.22	44° 29.94	0.2	300.6	4001	"	"	"	"	"	"	
	9:15	"	"	"	"	"	"	"	"	"	"	"	
	9:30	"	"	"	"	"	"	500	50	4	1	"	
	11:24	85° 27.12	44° 27.02	0.2	253.7	4004	"	"	50	3.5	1	Re-generates	
	12:43	85° 27.05	44° 25.90	0.1	227.7	4004	"	"	50	3	1	"	
	13:19	85° 27.01	44° 25.58	0.1	200.8	"	"	"	"	4.5	1	"	

30/1/2011

 Risk fish, called
 where
 Backup run 6400hz at
 ARK 602



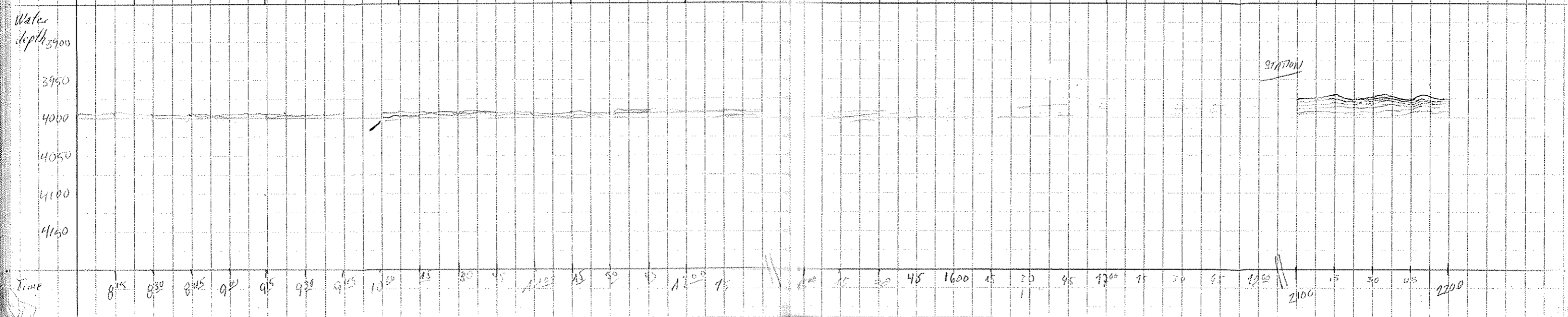
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Beam Range	Scale	Parasound Frequency	Parasound # of Pulses	Hour	Comments
11.8.51	15 15	85° 26.8	44° 24.3	0.3	134.8	4005	25-30	5000	50	4	1	NRV	
	22 30	85° 26.80	44° 27.66	0.8	289.5	4005	25-30	5000	200	4	4	Bergman	SEA-KODS code 2239
	22 45	85° 26.73	44° 24.76	0.6	67.7	4006	20	5000	200	4	4	Stein	
	23 00	85° 27.26	44° 34.22	4.1	190.0	4004	25	"	"	"	"	"	
	23 15	85° 27.29	44° 34.28	0.3	52.2	4004	25	"	"	"	"	"	
	23 30	85° 27.79	44° 34.2	0.1	9.4	4004	25	"	"	"	"	"	
	23 45	85° 27.31	44° 33.81	0.2	0.5	4002	25	"	"	"	"	"	
	24 00	85° 28.82	44° 39.92	6.7	55.9	4004	25	"	"	"	"	Stein	
12.8.51	24 15	85° 29.49	44° 51.51	4.1	42.7	3999	25	"	"	"	"	Thomson	Deliver 5000 m/hour for 600
	00 30	85° 29.62	44° 36.59	1.0	105.4	4003	40	"	"	"	"	"	
	00 45	85° 29.40	44° 39.35	2.8	14.8	4001	25	"	"	"	"	"	
	01 00	85° 29.34	44° 00.20	3.8	43.7	4000	40	"	"	"	"	"	
	01 15	85° 29.41	44° 59.79	0.4	324.8	4003	25	"	"	"	"	"	
	01 30	85° 29.63	45° 01.53	0.6	215.5	3992	40	"	"	"	"	"	
	01 45	85° 30.04	45° 16.19	5.1	49.8	4001	30	"	"	"	"	"	
	02 00	85° 30.28	45° 13.50	0.2	75.5	3994	30	"	"	"	"	"	
	02 15	85° 30.28	45° 19.75	3.8	76.5	4002	25	"	"	"	"	Vonck	
	02 30	85° 30.29	45° 21.49	1.3	209.3	4002	25	"	"	"	"	"	
	02 45	85° 30.28	45° 21.59	5.9	242.5	4001	25	"	"	"	"	"	
	03 00	85° 30.28	45° 22.88	2.1	75.6	4002	25	"	"	"	"	"	
	03 15	85° 30.24	45° 22.91	2.0	71.0	4001	25	"	"	"	"	"	
	03 30	85° 30.75	45° 34.91	5.4	70.2	4001	25	"	"	"	"	"	
	03 45	85° 31.73	45° 43.13	4.1	344.2	3999	20	"	"	"	"	"	Rec'd - lower level
	04 00	85° 32.32	45° 43.22	7.7	76.7	3993	20	"	"	"	"	Bergman	stand out 600
	04 15	85° 33.24	45° 58.85	1.1	89.6	4000	20	"	"	"	"	"	
	04 30	85° 33.33	46° 08.69	9.9	27.3	4000	20	"	"	"	"	"	
	04 45	85° 34.60	46° 23.45	2.9	80.7	4000	20	"	"	"	"	"	
	05 00	85° 34.77	46° 35.98	0.3	69.4	3999	"	"	"	"	"	"	
	05 15	85° 34.95	46° 45.37	3.9	36.7	4000	"	"	"	"	"	"	
	05 30	85° 35.70	47° 07.41	5.0	44.8	3993	"	"	"	"	"	"	
	05 45	85° 35.30	47° 08.58	0.8	38.6	4989	"	"	"	"	"	"	
	06 00	85° 36.21	47° 26.28	7.0	53.3	3997	"	"	"	"	"	"	
	6 15	85° 36.88	47° 31.93	3.9	5.1	3993	15	"	"	"	"	GARD	
	6 30	85° 37.79	47° 40.78	5.4	65.2	3992	"	"	"	"	"	"	
	6 45	85° 38.36	47° 51.57	5.4	54.5	3991	"	"	"	"	"	"	
	7 00	85° 39.20	48° 04.11	9.4	48.6	3991	"	"	"	"	"	"	
	7 15	85° 39.49	48° 22.04	5.1	80.8	3987	"	"	"	"	"	"	
	7 30	85° 39.79	48° 28.54	2.6	111.2	3991	20	"	"	"	"	"	
	7 45	85° 40.04	48° 33.58	7.6	55.1	3987	20	"	"	"	"	"	
	8 00	85° 40.78	48° 56.82	5.8	94.0	3985	20	"	"	"	"	BRASS	
	8 15	85° 41.21	48° 57.13	2.4	14.5	3987	25	"	"	"	"	"	

3900
3950
4000
4050
4100
4150

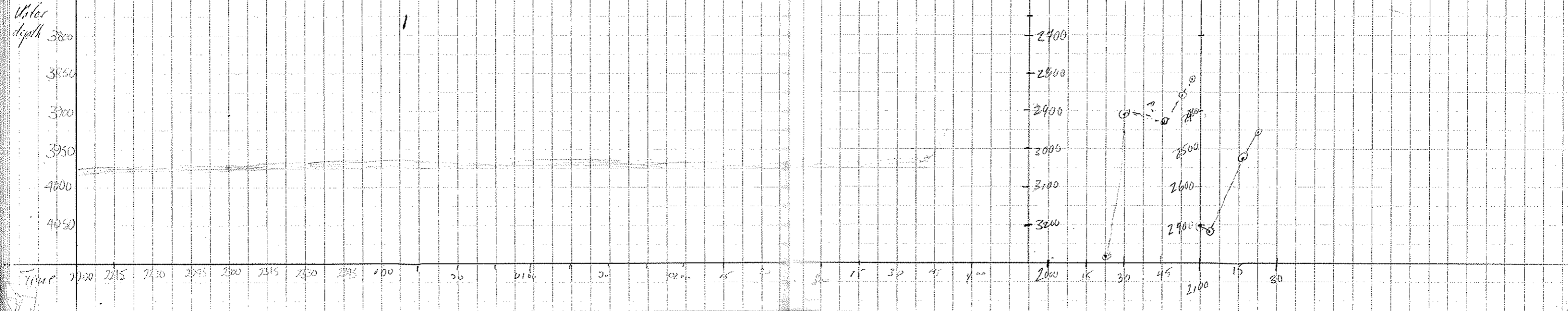
NRV

2300 15 30 45 2400 15 30 45 0900 15 30 45 30 45 500 15 30 45 600 15 30 45 700 15 30 45 800 8¹⁵

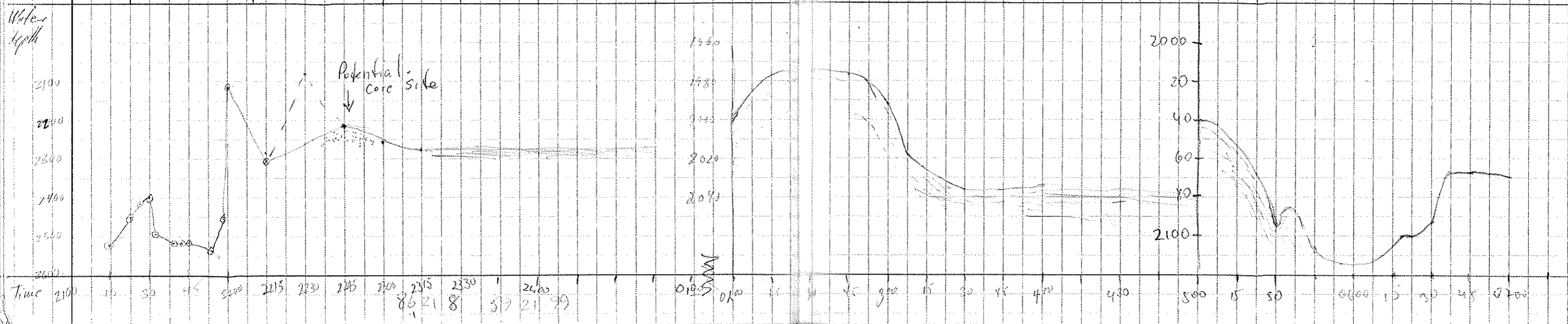
Date	Time	Lat	Long	Speed	Course	Waterdepth	Penetration	Dist Range	Dist Scale	Parasound Frequency	Parasound # of Pulses	Name	Comments
12.8.91	8:30	85° 42' 02	148° 53' 30	2.6	345.3	3990	15	5000	200	4	4	BRASS	PATCHY SIGNAL
"	8:45	85° 42' 41	48° 52' 37	2.7	337.7	3984	25	"	"	"	"	"	SIGNAL IMPROVED
"	9:00	85° 43' 18	48° 56' 47	3.5	047.6	3990	20	"	"	"	"	"	
"	9:15	85° 42' 69	49° 58' 07	4.9	131.3	3990	20	"	"	"	"	"	
"	9:30	85° 42' 76	49° 15' 24	5.7	041.8	3986	20	"	"	"	"	"	
"	9:45	85° 42' 91	49° 18' 26	4.9	107.0	3986	25	"	"	"	"	"	
"	10:00	85° 42' 84	49° 21' 22	5.7	091.9	3985	25	"	"	"	"	"	
"	10:15	85° 43' 31	49° 38' 20	2.9	99.5	3984	25	"	"	"	"	FREDERICKS	
"	10:30	85° 43' 33	49° 45' 20	3.6	105.5	3986	30	"	"	"	"	"	
"	10:45	85° 43' 59	49° 52' 04	5.1	38.2	3985	30	"	"	"	"	"	
"	11:00	85° 44' 42	50° 02' 12	4.7	11.4	3983	30	"	"	"	"	"	
"	11:15	85° 45' 71	50° 00' 93	5.5	8.2	3985	30	"	"	"	"	"	
"	11:30	85° 46' 27	50° 14' 39	4.8	77.3	3983	30	"	"	"	"	"	
"	11:45	85° 46' 87	50° 25' 12	6.9	47.9	3980	30	"	"	"	"	"	
"	12:00	85° 47' 36	50° 42' 27	4.4	82.2	3982	30	"	"	"	"	"	
"	12:15	85° 47' 71	50° 49' 51	0.7	279.0	3981	25	"	"	"	"	GARD	
"	12:30	85° 47' 72	50° 49' 52	0.2	125.8	3981	"	"	"	"	"	"	Station
"	12:45	85° 47' 71	50° 43' 52	0.2	255.5	3981	"	"	"	4	1	Bergmann	
"	13:00	85° 47' 69	50° 43' 69	0.0	233.2	3981	"	"	"	"	"	"	Paper für Desa was
"	13:15	85° 48' 10	50° 56' 85	5.4	33.6	3980	"	"	"	4	4	"	ungelegt Rolle 3 ↓
"	13:30	85° 48' 41	51° 04' 42	4.7	20.3	3980	"	"	"	"	"	"	Station 17:50
"	13:45	85° 49' 15	51° 11' 00	1.4	34.1	3980	"	"	"	"	"	"	Let me out.
"	14:00	85° 51' 27	51° 14' 10	6.8	18.3	3979	"	"	"	"	"	Jodrey	
"	14:15	85° 52' 04	51° 24' 28	6.3	39.6	3979	"	"	"	"	"	"	
"	14:30	85° 52' 5 N	51° 33' 3 E	2.3	66.3	3978	"	"	"	4	4	"	Scotty, beam mich nach Hause?
"	14:45	85° 52' 73	51° 43' 04	2.7	56.8	3974	"	"	"	4	1	"	
"	15:00	85° 53' 46	51° 48' 47	3.2	23.3	3974	"	"	"	"	"	"	
"	15:15	85° 54' 5	51° 47' 9	5.6	310.2	3978	"	"	"	4	4	"	
"	15:30	85° 55' 53	51° 57' 34	3.4	65.1	3979	20	"	"	"	"	Schubert	
"	15:45	85° 55' 76	52° 07' 54	4.0	24.7	3978	22	"	"	"	"	"	
"	16:00	85° 55' 93	52° 20' 60	2.2	78.2	3978	20	"	"	"	"	"	
"	16:15	85° 56' 05	52° 21' 14	0.3	222.1	3978	20	"	"	"	1	Bergmann	Station 17:50
"	16:30	85° 55' 36	52° 18' 58	0.2	289.2	3976	20-25	"	"	"	1	"	
"	16:45	85° 55' 36	52° 18' 36	0.2	275.6	3976	"	"	"	"	4	"	
"	17:00	85° 55' 36	52° 18' 36	0.4	284.6	3976	"	"	"	"	"	Bergmann	Station 17:50
"	17:15	85° 56' 64	52° 24' 66	6.4	25.1	3976	22	5000	200	4	4	MORAN	
"	17:30	85° 57' 13	52° 37' 07	2.2	43.1	3973	22	5000	200	4	4	"	
"	17:45	85° 57' 57	52° 41' 57	6.6	55.4	3971	22	5000	200	4	4	"	
"	18:00	85° 58' 43	52° 59' 45	8.9	21.3	3974	22	5000	200	4	4	"	



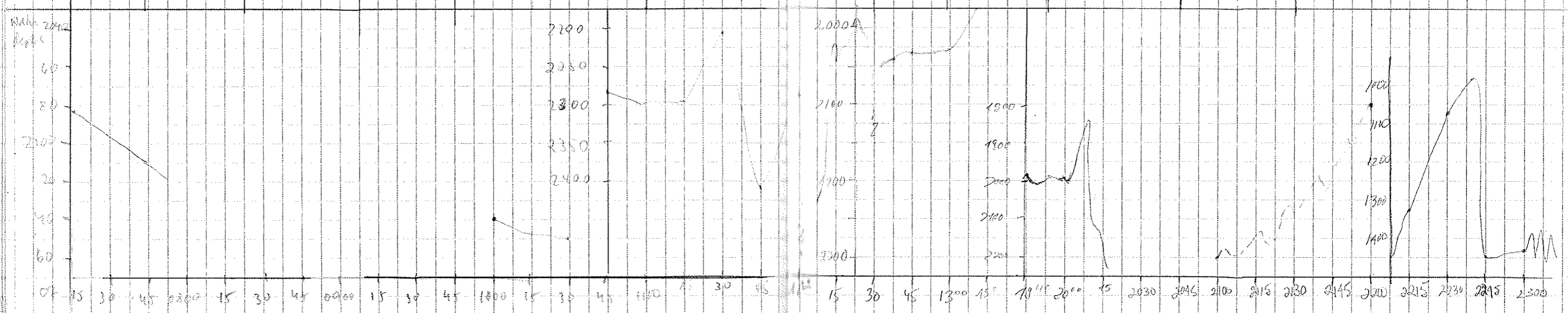
Date	Time	Latitude	Longitude	Speed	Course	Waterdepth	Penetration	Disto Range	Disto Scale	Parameter Frequency	Parameter # of Pulses	Name	Comments
12.8.91	2215	85°59.33' N	53°11.62' E	1.5	39.3	3972	20-25 m	5000	200	4	4	MOSHER	
	2230	85°59.53	53°12.31' E	5.7	129.9	3973	20-25 m	5000	200	4	4	"	
	2245	85°58.88	53°17.03	7.9	169.5	3974	20-25 m	5000	200	4	4	"	
	2300	85°58.23	53°22.88	12.8	330.7	3975	20-25	5000	200	4	4	"	
	2315	85°57.87	53°30.68	11.4	93.6	3973	20-25	5000	200	4	4	"	
	2330	85°57.67	53°38.03	3.3	90.6	3969	20-25	5000	200	4	4	"	
	2345	85°58.73	53°52.74	8.7	11.0	3972	20-25	5000	200	4	4	"	
13.8.91	00:00	85°59.82	54°01.81	4.3	22.9	3970	20	"	"	"	"	Threat	
	00:15	86°00.42	54°10.89	5.6	79.2	3971	30	"	"	"	"	Threat	? 1/2 m/s bottom?
	00:30	86°00.20	54°24.31	3.4	116.1	3971	20	"	"	"	"	Threat	Bottomed school 2000-3000 m
	00:45	85°59.74	54°37.73	4.1	116.3	3970	30	"	"	"	"	Threat	otto
	01:00	85°59.51	54°47.04	1.8	102.0	3969	30	"	"	"	"	Threat	
	01:15	86°00.15	55°01.13	5.1	83.2	3968	30	"	"	"	"	Threat	
	01:30	85°59.82	55°14.03	2.5	94.8	3968	30	"	"	"	"	Threat	
	01:45	85°59.67	55°18.64	4.1	123.8	3967	30	"	"	"	"	Threat	
	02:00	85°59.17	55°22.29	2.3	302.6	3967	30	"	"	"	"	Threat	
	02:15	85°59.06	55°34.55	5.4	92.2	3965	20	"	"	"	"	Voyen	
	02:30	86°00.06	55°43.27	4.5	11.2	3966	25	"	"	"	"	Voyen	Table 6422 at 0233.
	02:45					3963	25	"	"	"	"	Voyen	called Blue Bergman
	03:00					3965	25	"	"	"	"	Voyen	Bergman box 0250. 1000m
	03:15	86°02.96	56°09.22	7.9		3965	25	"	"	"	"	Voyen	Edge 300
	03:30	86°03.10	56°19.65	2.1	65.2	3964	20-30	"	"	"	"	Bergman	Edge 300
	03:45	86°03.10	56°33.33	6.0	40.1	3964		"	"	"	"	"	
	04:00	86°03.83	56°50.42	4.7	61.1	3985		"	"	"	"	"	
	04:15												
	06:42	86°11.37	58°59.56	0.7	24.0	3905		"	"	"	"	"	See comments
	07:33	86°15.16	59°21.63	3.8	27.9	2979		"	"	"	"	"	Back again a depth
	07:44	86°15.348	59°19.667	3.3	15.7	2860		"	"	"	"	"	Plain 1 station 700
	08:13	86°14.167	59°19.60	3.3	171.7	2737		"	"	"	"	BRASS	UNDERWAY SLOPING BOTTOM NO SIGNAL
	08:19	86°14.48	59°12.50	8.5	61.8	3046	30	"	"	"	"	"	Station 900
	10:20									5.5	8	NOY	weirdly returns signal but
	11:00	86°14.6	59°13.8	0.2	104.1	3047	?	5000	100	5.5	8		Bergman!
	11:15	86°14.54	59°14.15	0.1	88.3	3047		"	"	"	"		
	11:30	86°14.56	59°14.99	0.1	112.2	3047		"	"	"	"		
	12:35	86°14.6	59°15.7	0.1	100.1	3053		"	"	5.5	8		
	13:00	86°14.5	59°16.4	0.1	115.4	3069	?	5000	100	5.5	8		
	13:30	86°14.5	59°17.3	0.1	103.0	3079	?	"	"	"	"		
	19:47	86°14.24	59°28.52	0.1	147.3	3216	?	"	200	5.5	8	Bergman	
	20:20	86°14.32	59°26.87	2.4	55.9	3265		"	"	4	21	MORAN	End station - no signal - steep seafloor
	20:30	86°14.84	59°32.72	0.7	77.4	2912		5000	200	4	4		
	20:45	86°15.322	59°35.00	3.2	154	2941		5000	200	4	4		



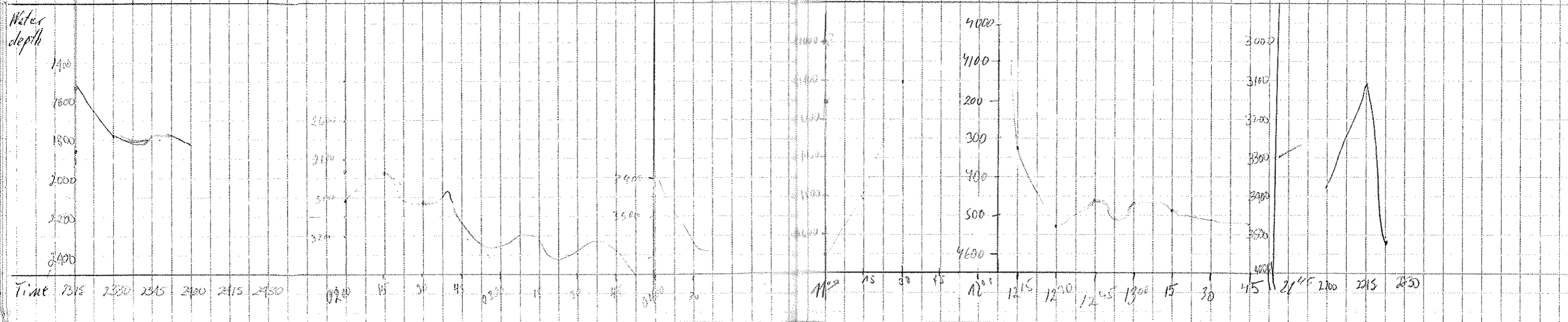
Date	Time	Latitude	Longitude	Speed	Course	Waterdepth	Penetration	DLR Range	Drop Scale	Parasound Frequency	Receiv. Channel # of Pulses	Name	Comments
13 Aug	21:30	86°17.50N	59°30.33E	6.0	344	2401	N/A	5000	500	5.5	#5	MORAN	very noisy signal we are now receiving the seabed & the subbottom
	21:45	86°18.48N	59°28.95E	3.3	14.4	2509	20?	5000	500	5.5	5	MORAN	
	22:00	86°19.32	59°22.54E	4.5	223.6	2105	very little	5000	500	5.5	5	"	
	22:15	86°19.60	59°14.99	7.0	344.5	2307	1-10m?	5000	500	5.5	5	MOSHER	
13 Aug	22:30	86°20.44	59°11.65	3.6	298.0	2085	1-10m	5000	500	5.5	5	MOSHER	NBS in LAB ON 2241 - changed seab to 200m ← slowing ship picked core site are going to return to it
	22:45	86°21.39	59°18.25	7.4	18.9	2220 (HYDRO SEWER)	20m	5000	200	5.5	5	"	
	23:00	86°22.23	59°24.14	6.2	327.2	2255	25m	5000	200	5.5	5	"	
	23:15	86°21.97N	59°21.23	6.7	231.7	2270	20-25m	5000	200	5.5	5	"	
	23:33	86°21.10N	59°12.90	.6	300.8	2112	10-15m	5000	200	5.5	5	"	
	23:36	86°20.42	59°10.47	.7	323.9	2108	20m	5000	200	5.5	5	"	
	23:52	86°20.27	59°09.80	1.4	126.6	1975	none	5000	200	5.5	5	"	
	24:00	86°20.25	59°10.11	.1	108.1	2004	20-25m	5000	200	5.5	5	"	
14 Aug	00:15	86°20.26	59°10.39	.1	270.9	2004	30	"	"	"	"	Therole	
	00:30	86°20.26	59°10.61	0.1	83.6	2006	"	"	"	"	"	"	
	01:00	86°20.24	59°11.54	.1	179.0	2004	"	"	"	"	"	"	
	01:15	86°20.22	59°11.97	.1	119.8	2004	"	"	"	"	"	"	
	01:30	86°20.20	59°12.40	.2	31.5	2004	"	"	"	"	"	"	
	01:45	86°20.18	59°12.95	.2	203.7	2004	"	"	"	"	"	"	
	02:00	86°20.16	59°13.50	.3	92.6	2004	"	"	"	"	"	"	
	02:15	86°20.14	59°13.95	0.2	121.3	1975	"	"	"	"	"	Vorew	
	02:30	86°20.12	59°14.45	0.2	112.8	1974	"	"	"	"	"	Vorew	
	02:45	86°20.09	59°15.04	0.2	88.2	1975	"	"	"	"	"	Vorew	
	03:00	86°20.06	59°15.40	0.2	139.6	1991	"	"	"	"	"	Vorew	
	03:15	86°20.04	59°15.80	0.2	134.6	2019	15	"	"	"	"	Vorew	
	03:30	86°20.02	59°16.29	0.2	108.5	2036	15	"	"	"	"	Vorew	
	03:45	86°20.00	59°16.73	0.2	107.5	2034	15	"	"	"	"	Vorew	
	04:00	86°19.98	59°17.13	0.2	122.5	2033	15	"	"	"	"	Vorew	
	04:30	86°19.94	59°17.84	.1	161.1	2035	20-30m	"	"	"	"	Spiller	
	04:45	86°19.92	59°18.08	.1	120.3	2037	40	"	"	"	"	Spiller	
	05:00	86°19.92	59°18.42	.5	67.2	2040	"	"	"	"	"	Spiller	
	05:30	86°19.88	59°18.83	.1	152.8	2085	"	"	"	"	"	"	
	05:45	86°19.87	59°18.99	.1	105.0	2110	"	"	"	"	"	"	
	06:00	86°19.87	59°19.27	.1	171.8	2116	"	"	"	"	"	BICKMAN	
	06:18	86°19.86	59°19.86	.2	118.4	2101	"	"	"	"	"	"	
	06:30	86°19.87	59°19.55	1.2	300.3	2093	?	"	"	"	"	"	
	06:45	86°19.87	59°19.33	.2	344.7	2073	?	"	"	"	"	"	
	07:00	86°19.87	59°19.61	.1	119.4	2074	?	"	"	"	"	"	



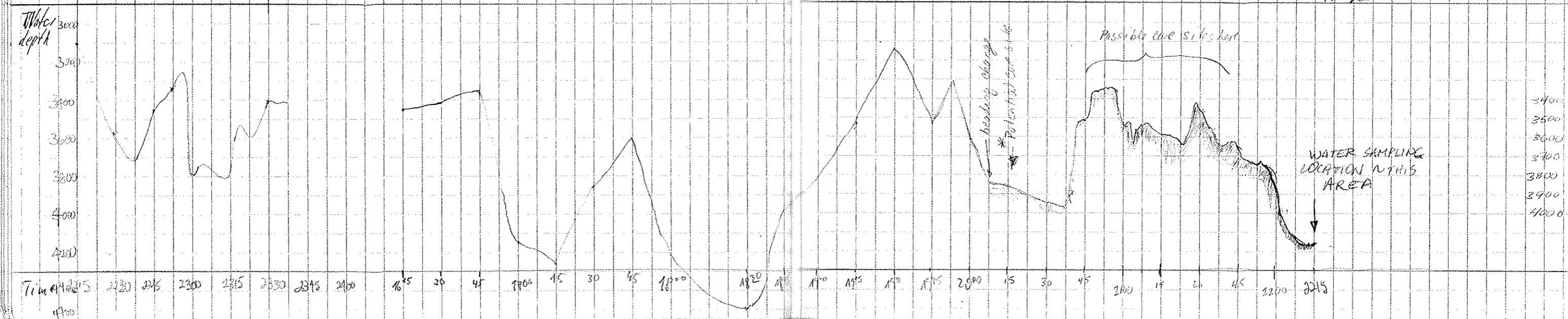
Date	Time	Latitude	Longitude	Speed	Course	Water Depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
14 Aug	0715	86° 19.87	59° 19.82	0.1	153	2083						BACKMAN	
	0745	86° 19.87	59° 20.35	0.1	179	2110						"	
	0800	86° 19.87	59° 20.63	0.1		2118						"	ON STATION
	10 ⁰³ 10 ¹⁶	86° 19.92	59° 23.63	0.2	174.6	2141						TRONICKS	Frequency test Stations made 1075
	10 ³⁰	86° 19.81	59° 21.28	0.2	173.1	2160		5000	200	5.5	8	"	
	10 ⁴⁵	86° 20.05	59° 25.43	0.4	0.0	2213		"	"	"	"	"	
	11 ¹⁷	86° 21.28	59° 28.38	9.6	28.7	2290		"	"	"	"	"	
	11 ¹⁸	86° 21.90	59° 30.57	8.1	299.4	2391		"	"	"	"	"	
	11 ³¹	86° 22.62	59° 34.05	4.0	80.9	2205		"	"	"	"	"	
	11 ⁴⁵	86° 23.32	59° 37.49	5.2	352.9	2417	30	"	"	"	"	"	
	11 ⁵⁰	86° 24.68	59° 40.34	5.8	44.7	2280	40	"	"	"	"	"	
	1215	86° 25.99	59° 45.35	3.2	28.7	2240 ?		"	"	"	"	GARD	Water depth indications vary wildly within seconds!
	1230	86° 26.69	59° 50.72	9.7	4.8	2110 ?		"	"	"	"	"	
	1245	86° 26.96	59° 53.36	4.7	222.2	2033 ?		"	"	"	"	"	STATION STOP 1255
	1255	86° 26.98	59° 54.83			2033		"	"	"	"	"	
	1405	86° 26.48	60° 03.50	0.3	142.0	1817	40	5000	200	5.5	8	Bergman	
	1636	86° 26.39	60° 04.12	0.2	123.5	1830	15-20	5000	200	5.5	4	"	1728 Westward on bottom
	1722	86° 26.27	60° 06.24	0.8	128.6	1836	15-25	"	"	"	4	"	
	1754	86° 26.21	60° 06.94	0.2	129.6	1860	15-25	"	"	"	6	"	
	1842	86° 26.08	60° 08.86	0.3	126.1	1869	15-25	"	"	"		Frequency test	
	1945	86° 26.03	60° 08.89	4.4	112.3	1984	"	"	"	"	8	"	
	2000	86° 25.86	60° 11.73	4.4	275.7	1998	"	"	"	"	4	"	
	2017	86° 27.23	60° 23.38	4.8	20.0	2194		"	"	"	11	"	
	2030	86° 28.09	60° 27.63	3.3	23.5	2261		"	"	"	11	"	
	2100	86° 29.3	60° 16.1	3.3	335.3	2204	?	"	"	5.5	8	"	
	2200	86° 33.96	59° 59.32	6.1	27.3	1803 (HS)	?	"	"	5.5	8	MOSNER	
	2215	86° 34.63	60° 06.15E	1.7	45.3	1329	10?	5000	200	5.5	8	"	
	2230	86° 35.82	60° 05.97	5.0	4.4	1077	5-10m	5000	200	5.5	8	"	
	2245	86° 36.42	60° 05.42E	3.8	6.3	1319? (HAB)	?	"	"	"	11	"	
	2300	86° 36.47	60° 05.55	1.61	134.3	1433m	?	5000	200	5.5	8	"	Ship is going back & forth in ice to create this bottom pattern



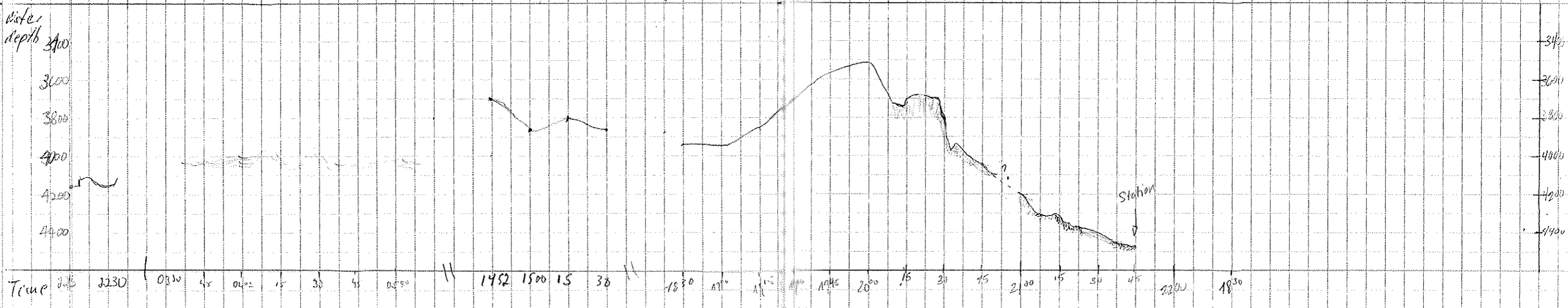
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Depth Range	Depth Scale	Frequency	# of Pulses	Name	Comments
14 Aug 91	2315	86° 36.58	60° 03.67	4.0	323	1522	?	500-6	200	5.5	8	MOSHER	
	2330	86° 38.18	60° 04.56	4.1	4.5	1785	?	5000	200	5.5	8	"	
	2347	86° 39.44	60° 05.82	4.7	350.4	1784	8-10m	"	"	"	"	"	
	2400	86° 40.22	60° 05.18	5.9	336.3	1784	10m	"	"	"	"	"	WIND TOPOGRAPHY
15 Aug 91	00.15	86° 41.09	59° 51.7	5.0	31.5	1784	?	"	"	"	"	J. Thiele	
	00.30	86° 41.83	59° 53.33	5.7	3.7	1784	?	"	"	"	"	"	
	00.45	86° 42.85	59° 48.04	3.0	102.6	1784	?	"	"	"	"	"	
	01.00	86° 42.83	59° 49.06	3.1	70.4	2911	?	"	"	"	"	"	
	01.15	86° 43.80	59° 54.50	6.2	334.4	2974	?	"	"	"	"	"	
	01.30	86° 44.43	59° 51.61	5.9	62.2	2904	?	"	"	"	"	"	
	01.45	86° 45.35	59° 42.15	4.9	32.8	2826	?	"	"	"	"	"	Flat die bottom, Radar
	02.00	86° 46.34	59° 43.40	6.2	22.7	3006	?	"	"	6	"	"	
	0215	86° 48.13	59° 46.57	4.9	358.	2886	?	"	"	"	"	Vernon	
	0230	86° 48.36	59° 46.25	0.6	314.7	3036	20m?	"	"	"	"	"	
	0245	86° 49.87	59° 41.77	4.7	21.7	3207	?	"	"	"	"	"	
	03.00	86° 50.45	59° 41.60	5.8	1.5	3214	?	"	"	"	"	"	
	0315	86° 52.12	59° 41.22	4.2	356.7	3304	?	"	"	"	"	"	
	0330	86° 53.00	59° 41.37	3.2	249.8	3304	?	"	"	"	"	"	
	0345	86° 52.06	59° 42.20	3.6	125.8	3493	?	"	"	"	"	"	
	04.00	86° 51.36	59° 43.09	4.4	218.8	3467	?	"	"	"	"	"	
	04.15	86° 51.73	59° 38.43	0.3	218.8	3509	?	"	"	"	"	Bergmann	Station 4 th
	04.45	86° 51.63	59° 40.90	0.8	123.4	3548	?	"	"	"	"	"	
	05.30	86° 51.63	59° 41.40	0.4	117.3	3605	?	"	"	"	"	"	
	11.00	86° 51.29	59° 49.16	5	196.7	3653	15 20	"	"	"	"	FRUSTRATION	10 th Station recorded
	11.10	86° 51.79	59° 43.61	3.41	34.7	3540	?	"	"	"	"	"	
	11.30	86° 52.92	59° 44.62	4.6	58.4	3405	?	"	"	"	"	"	
	1215	86° 36.70	59° 29.37	7.4	326.9	4325	?	"	"	"	"	"	
	1230	86° 57.28	59° 20.27	3.3	328.0	4526	?	"	"	"	"	"	
	1245	86° 58.21	59° 18.64	6.8	335.8	4454	?	"	"	"	"	"	
	1300	86° 58.12	59° 09.96	7.9	724.0	4460	?	"	"	"	"	"	
	1315	86° 57.66	59° 20.23	4.6	794.8	4486	?	"	"	"	"	"	
	1330	86° 56.75	59° 02.55	0.3	146.7	4517	?	"	"	"	"	"	
	1345	86° 56.70	59° 02.12	0.2	189.4	4525	?	"	"	"	"	"	
	1350	86° 56.67	59° 02.11	0.1	167.0	4512	?	"	"	"	"	"	STATION BREAK 1330
	14.00	86° 56.43	59° 02.41	0.1	164.2	4418	?	"	"	"	"	"	
	21.00	86° 55.78	59° 10.78	0.4	149.6	4339	?	"	"	Frequency lost	"	"	Station break 2130
	22.00	86° 58.67	59° 00.48	9.2	218.6	3774	?	"	"	"	"	MOSHER	
	22.18	86° 53.84	58° 40.09	7.1	250.3	3117	?	5000	200	5.5	8	MOSHER	STEEP BOTTOM - NO RECORD



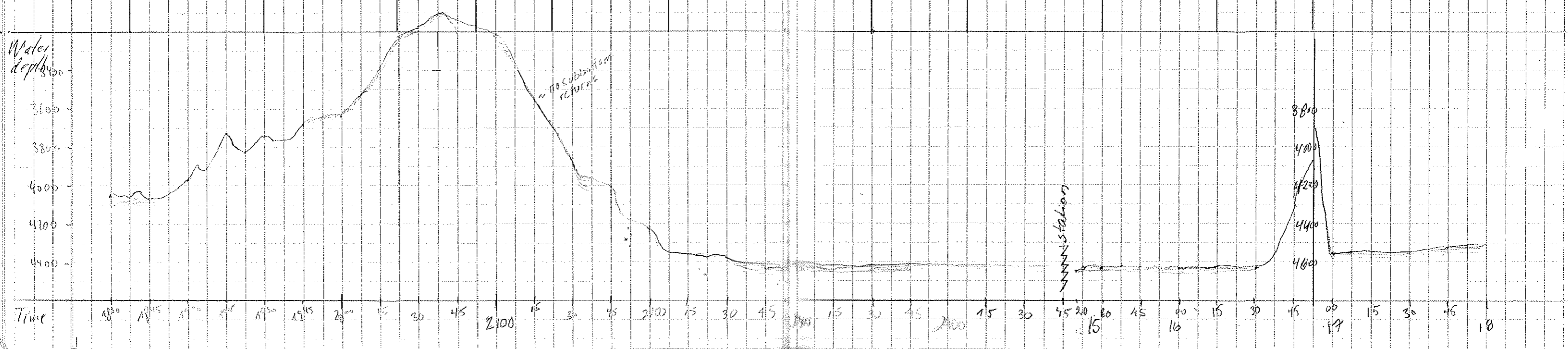
Date	Time	Latitude	Longitude	Speed	Course	Waterdepth	Penetration	Para Range	Para Scale	Para sound Frequency	Para sound # of Pals	Name	Comments
Aug 15/91	22:30	86°53.06	58°07.42	2.7	212	3581 m	?	5000	200	5.5	8	MOSHER	Very steep walls of Median Valley
	22:45	86°52.73	57°48.53	5.2	249	3449 m	non steady	"	"	5.5	"	"	
	23:00	86°53.19	57°27.04	4.3	261.5	3702	0	"	"	"	"	"	
	23:15	86°52.58	57°15.47	6.9	237	3380.3	0	"	"	"	"	"	
	23:30	86°51.71	57°02.02	10.6	188.7	3340.3	0	"	"	"	"	"	
	23:45	86°51.37	57°01	1.9	57	3353	0	"	"	"	"	"	
	24:00	86°51.47	56°47.64	6.6	193.9	3705	?	"	"	"	"	J. Tomida	0° 20' Station
Aug 16	00:15	86°51.32	56°43.72	6	288.1	3722	"	"	"	"	"	"	
	00:30	86°51.28	56°42.84	4.4	160.8	3727	"	"	"	"	"	"	
	1:05	86°51.12	56°40.94	0.2	128.7	3722	00:30	"	"	"	8	Bayman	Station made 16 09
	9:23	86°50.57	56°55.04	.1	140.3	3370		"	"	"	4		
	13:30	86°50.35	57°03.16	0.7	107.3	3496	15 20	"	"	"	6	Bayman	
	14:24	86°50.33	57°04.65	.1	66.0	3500	20	"	"	"	4		
	16:08	86°50.33	57°07.67	0.3	33.7	3501	20	"	"	"	8	Bayman	
	16:15	86°50.57	57°07.63	4.8	342.5	3463	+	"	"	"		Schiller	
	16:30	86°51.87	57°00.51	4.3	330	3408	30	"	"	"			
	16:45	86°52.52	56°50.58	6.8	325	3350	-	"	"	"			
	17:00	86°53.74	56°54.87	4.4	8.1	4155	-	"	"	"			
	17:15	86°55.21	56°57.34	5.6	7.6	4270	-	"	"	"			
	17:30	86°55.92	56°45.29	6.0	125.7	3854	-	"	"	"			
	17:45	86°57.21	56°50.89	1.5	35.8	3595	-	"	"	"			
	18:00	86°59.03	56°52.25	5.5	355	4264	-	"	"	"			
	18:30	87°02.11	56°42.83	7.6	342.	4174	-	"	"	"		Wander	
	18:45	87°04.05	56°45.87	4.6	44.5	3963	-	"	"	"			
	19:00	87°05.24	56°50.72	8.2	117.8	3836	-	"	"	"			
	19:15	87°06.73	57°09.09	4.7	348.5	3572	20	"	"	"			
	19:30	87°08.07	56°53.51	6.6	320.	3131	20	"	"	"			
	19:45	87°09.55	56°46.58	8.9	70.4	3533	20	"	"	"			
	20:00	87°10.99	56°52.34	2.8	355.8	3671	30	"	"	"			
	20:15	87°11.62 N	56°45.85	4.1	68.6	3838	32	5000	200	5.5	8	MOSHER	* POSSIBLE CORE SITE: 87°11.727 56°50.270 small, but flat ridge heading changed @ ~ 20:18 heading changed @ ~ 20:39 increased speed to 12 knots @ 21:25! very little ice around (relatively)
	20:30	87°11.90 N	57°08.86 E	5.9	50.4	3924	24	"	"	"	"	"	
	20:45	87°12.732 N	57°11.092 E	0.5	332	3918	19.7	"	"	"	"	"	
	21:00	87°14.079 N	56°59.63 E	3.5	21.5	3530	~ 25	"	"	"	"	"	
	21:15	87°15.045 N	56°58.50 E	3.4	13.2	3577	~ 40	"	"	"	"	"	
	21:30	87°16.419 N	56°46.04 E	9.8	332.6	3468	~ 40	"	"	"	"	"	
	21:45	87°18.06 N	56°36.35 E	4.5	333.6	3634	~ 40	"	"	"	"	"	
	22:00	87°19.56 N	56°18.00 E	9.7	345.2	3870	~ 40	"	"	"	"	"	
	22:15	87°20.73	55°59.70	3.7	350.9	4166	~ 15-20	"	"	"	"	MOSHER	



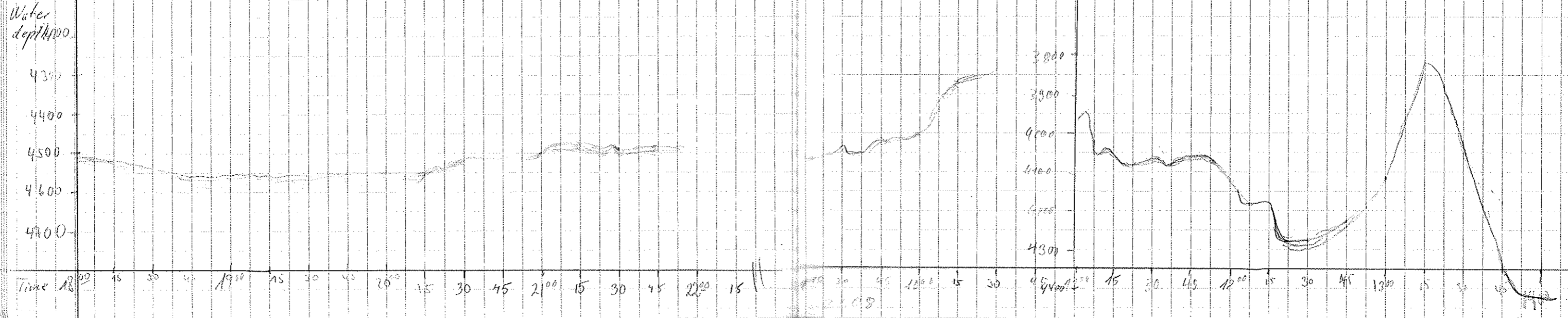
Date	Time	Latitude	Longitude	Speed	Course	Waterdepth	Penetration	Dist Range	Dist Scale	Frequency	# of Poles	Name	Comments
Aug 16/91	2235	87° 20.42	55° 51.16	9.8	168	4178	15 m	5000	200	5.3	8	MOSHER	TURNING ONTO SITE
	2245	87° 20.157	55° 48.27	0.3	260.7	4132	15 m	"	"	"	"	"	THRUSTER ARE ON
	2300	87° 20.110	55° 44.63	0.6	256.1	4125	20-25m	"	"	"	"	"	ON STATION 2300
Aug 17	0330	87° 20.28	56° 03.92	4.5	16.7	4007	20	"	"	"	7	Thred	ATTED STATION
	0345	87° 21.40	55° 52.79	5.0	45.2	4082	30	"	"	"	"	"	
	0400	87° 22.97	55° 54.58	7.1	50.5	4035	30	"	"	"	"	"	6th Pos. 2.0
	0426	87° 25.42	55° 46.62	9.5	19.4	4104	20	"	"	"	"	"	
	0430	87° 26.74	55° 53.03	9.3	14.6	3980	20	"	"	"	"	"	
	0445	87° 28.25	56° 14.15	9.3	19.4	3844	20-30	"	"	"	"	"	
	0500	87° 29.83	56° 08.32	8.2	354.7	3806	"	"	"	"	"	"	
	0515	87° 31.09	55° 49.74	4.2	212	3926	"	"	"	"	"	"	
	0525	87° 30.66	55° 54.78	4	165.5	3856	"	"	"	"	"	"	Att Station
	0503	87° 30.66	55° 57.47	0	-	3847	"	"	"	"	"	"	"
	0735	87° 30.77	55° 58.87	0.2	75.7	3847	15-20	"	"	5	9	Boyer	
	0742	87° 30.91	55° 06.27	0.2	60.2	3814	15-20	"	"	5.5	8	"	
	1300	87° 31.11N	56° 22.2 E	0.2	87.3	3706	15-20	5000	100	5.5	2	NOY	
	1452	87° 31.14	56° 24.93	0.3	301.6	3702	"	"	"	"	8	MOSHER	LEAVING STATION 1452
	1500	87° 31.33	56° 10.93	5.5	294.1	3853	3	"	"	"	"	Jodrey	
	1515	87° 31.06	55° 54.85	2.6	204.9	3805	7	"	200	"	"	"	
	1530	87° 30.26	55° 54.70	1.2	338.1	3888	20	"	200	"	"	"	
	1742	87° 30.16	56° 00.55	0.2	158.7	3852	15-25	"	100	"	"	Station Ende	on station 1530
	1802	87° 30.17	56° 01.74	0.2	51.7	3862	"	"	200	"	"	"	
	1845	87° 30.20	56° 02.15	0.8	94.5	3855	10	"	"	"	"	Kroner	
	1900	87° 30.08	56° 05.09	0.2	104.3	3852	"	"	"	"	"	"	
	1915	87° 29.78	56° 31.58	10.0	72.0	3834	"	"	"	"	"	"	
	1930	87° 30.32	56° 55.71	2.4	53.0	3704	"	"	"	"	"	"	
	1945	87° 31.06	57° 12.15	8.3	74.5	3482	"	"	"	"	"	"	
	2000	87° 31.23	57° 42.96	3.0	119.4	3510	"	"	"	"	"	"	
	2015	87° 31.839	57° 54.535	8.2	15.6	3700	~60	5000	200	5.5	8	MORAN	
	2030	87° 31.058	58° 13.503E	3.1	77.6	3818	~40	5000	200	"	"	"	
	2045	87° 31.447	58° 31.312E	5.2	44.2	4038	~20	"	"	"	"	"	
	2100	87° 32.171N	58° 54.320E	7.4	34.6	4225	~25	"	"	"	"	"	
	2115	87° 32.620N	59° 24.470E	3.8	106.4	4331	~15-20	"	"	"	"	"	
	2130	87° 33.27N	59° 54.58 E	4.2	005.1	4393	30	"	"	"	"	"	
	2145	87° 34.299N	60° 09.009E	0.3	373.8	4401	~40	"	"	"	"	"	on station @ 2145
19.08	0142	87° 34.37N	60° 20.15	0.1	89.0	4459	20-25	"	100	"	"	Boyer	
	1602	87° 36.25N	61° 04.27	0.2	37.5	4107	25-30	"	200	4	4	"	Station Ende
	1803	87° 36.57N	61° 09.74	0.2	43.2	4077	25-30	"	200	Frequency	"	"	
	1830	87° 36.70N	61° 10.64	2.0	82.9	4079	20	"	"	"	"	Wander	



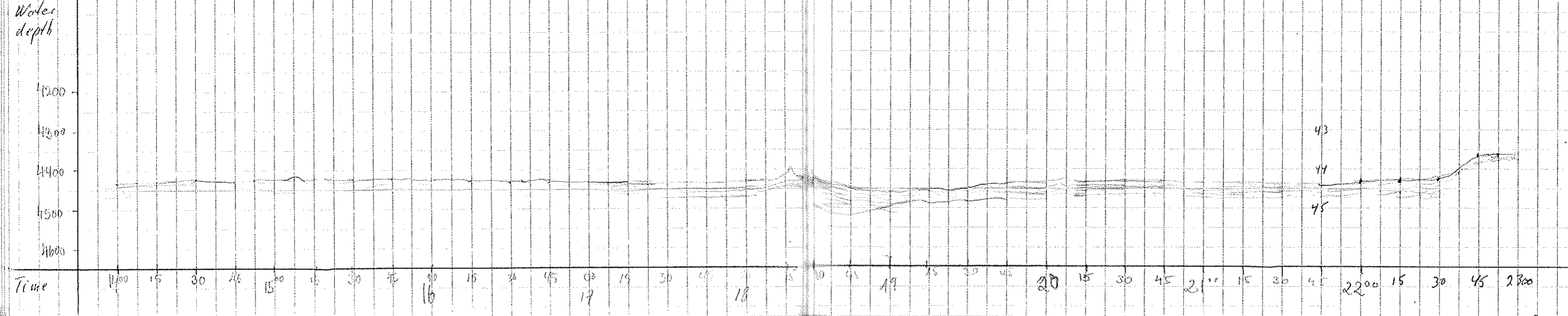
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Dist. Range	Dist. Scale	Parasound Frequency	Parasound # of Pulses	Name	Comments
18.8.91	18:45	87° 36.74	67° 14.84	2.7	77.0	4075	20	5000	200	4	4	USC Jrc	
	19:00	87° 36.75	67° 44.78	5.2	65.9	3984	20	-	-	5.5	8		
	19:20	87° 37.72	62° 21.61	7.8	85.2	3825	20	-	-	-	-		
	19:30	87° 37.41	62° 35.81	3.5	123.5	3740	20	-	-	-	-		
	19:45	87° 37.32	62° 41.88	1.1	71.5	3683	?	-	-	-	-		
	20:00	87° 37.78	62° 54.06	3.1	65.6	3631	-	-	-	-	-		
	20:15	87° 38.02 N	63° 29.651 E	3.9	103.7	3380	< 20	"	"	"	"	MORAN	
	20:30	87° 37.748 N	63° 54.30 E	2.3	64.0	3198	20-25	"	"	"	"	"	
	20:45	87° 37.500	64° 38.195 E	6.6	96.2	3153	20	"	"	"	"	"	
	21:00	87° 37.458	65° 14.309 E	4.4	72.2	3207	~ 20	"	"	"	"	"	
	21:15	87° 37.754	65° 53.470	2.2	86.2	3654	no signal, duras	"	"	"	"	"	
	21:30	87° 37.434	66° 02.11 E	7.1	72.6	3884	20	"	"	"	"	"	poor signal from 2115-2123 GMT
	21:45	87° 37.388	66° 28.79 E	6.8	74.0	4006	10-15	"	"	"	"	"	
	22:00	87° 36.48	67° 0	9.9	99.6	4120.7	-	"	"	"	"	MOSHER	NO SIGNAL
	22:15	87° 36.20	67° 16.166	2.9	104.9	4343.8	10 m	"	"	"	"	MOSHER	
	22:30	87° 36.43	67° 15.66	1.6	95.8	4388	10-15 m	"	"	"	"	"	PARASOUND NOT WORKING
	22:45	87° 36.45	67° 20.31	0.9	90.2	4422	20-40 m	"	"	"	"	"	CORRECT DEPTH STILL ON
	23:15	87° 36.58	67° 26.09	0.4	60.7	4419	30-40 m	"	"	"	"	MOSHER	4305
	23:30	87° 36.597	67° 23.48	3.4	275	4422	30 m	"	"	"	"	"	DEPTH STILL INCORRECT
	23:45	87° 36.63	67° 24.89	3.4	85.8	4413	30-40	"	"	"	"	MOSHER	
	24:00	87° 35.90	67° 51.45	5.6	120.9	4399	45-50 m	"	"	"	"	"	
19.8.91	0:15	87° 35.1 N	68° 20.8 E	7.6	114.0	4427	50 m	5000	200	4	4	Nawczyk	sehr gute Untergrundreflexionen! Station 045 Uhr
	0:30	87°						"	"	"	"	"	
	0:45	87° 35.00	68° 55.28	0.6	98.1	4428	~ 50 m	"	"	4	1	"	
	1:00	87° 35.0	68° 58.1	0.6	98.8	4428	> 50 m	5000	100	4	1	"	
	2:00	87° 35.1	68° 58.3	0.1	62.7	4428	60 m	5000	100	4	1	"	
	3:45	87° 35.29	69° 03.30	0.1	37.4	4428	60 m	6000	100	4	1	Bogaran	55° Backup ARK 8:10
	15:20	87° 36.84	69° 58.52	0.9	20.2	4429	60 m	"	1	"	1	"	1000 Parasound abgelesen
	15:30	87° 36.34	69° 58.15	3.2	218.5	4429	60 m	5000	200	4	"	BERGSTEIN	Es war ein Fehler
	15:45	87° 35.29	69° 53.65	6.1	170.5	4422	55	"	"	"	"	"	Verteiler gemacht 11:00 Uhr
	16:00	87° 34.28	69° 51.84	4.2	219.1	4428	~ 50 m	"	"	"	"	"	Stationen 15:20
	16:15	87° 32.92	69° 38.59	5.1	192.1	4424	50 m	"	"	"	"	BRASS	
	16:30	87° 31.50	69° 40.36	6.1	185.8	4427	50 m	"	"	"	"	"	
	16:45	87° 30.33	69° 30.31	5.4	208.1	4098	0	"	"	"	"	"	Travelling up slope fast. No reflection
	17:00	87° 28.97	69° 24.95	4.4	166.5	4558	35 m	"	"	"	"	"	Returned to flat bottom but 150 m deeper
	17:15	87° 27.92	69° 19.10	6.0	175.6	4557	40 m	"	"	"	"	"	
	17:30	87° 26.87	69° 07.95	3.2	025.5	4550	~ 45 m	"	"	"	"	"	strong signal to 45 m
	17:45	87° 26.20	69° 03.64	1.4	214.9	4504	45 m	"	"	"	"	"	
	18:00	87° 25.42	68° 55.99	2.7	221.8	4506	45 m	"	"	"	"	"	



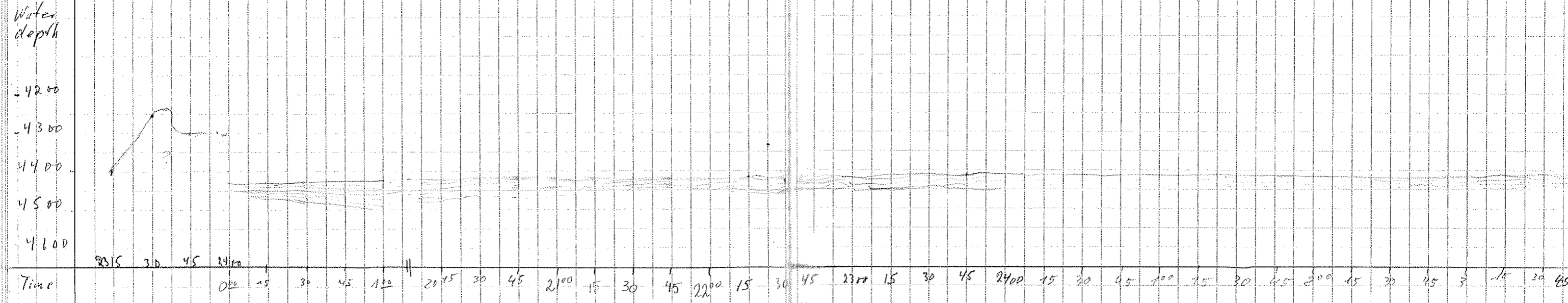
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
19.8.71	18:45	87° 24.21	68° 51.07	7.0	219.4	4554	30	5000	200	5.5	8	FREDERIKS	
	18:50	87° 23.73	68° 35.60	5.1	228.4	4546	15-10	"	"	"	"	"	
	18:55	87° 22.94	68° 35.67	7.8	222.8	4558	20	"	"	"	"	"	
	19:00	87° 21.96	68° 47.76	10.8	144.2	4557	40	"	"	"	"	"	
	19:05	87° 21.15	68° 48.06	3.4	178.4	4558	30-40	"	"	"	"	"	
	19:30	87° 20.60	68° 44.65	1.0	183.8	4558	40	"	"	"	"	"	
	19:45	87° 20.29	68° 43.40	3.3	144.8	4558	"	"	"	"	"	"	
	20:00	87° 20.16	68° 42.09	6.0	220.1	4554	"	"	"	"	4	GARD	
	20:15	87° 19.96	68° 26.44	8.3	228.6	4556	"	"	"	"	"	"	
	20:30	87° 18.70	68° 29.58	6.0	168.8	4518	15	"	"	"	"	"	
	20:50	87° 18.31	68° 31.77	5.0	335.7	4533	"	"	"	"	"	"	
	21:05	87° 18.62	68° 24.64	8.2	260.1	7504	"	"	"	"	"	"	
	21:15	87° 18.70	68° 18.63	2.3	185.5	4477	20	"	"	"	"	"	
	21:30	87° 17.81	68° 22.62	6.0	167.5	4477	"	"	"	"	"	"	
	21:45	87° 17.15	68° 12.74	6.2	212.6	4483	"	"	"	"	"	"	
	22:00	87° 17.08	68° 11.27	3.5	200.0	4483	20	"	"	"	"	"	
	22:21	87° 15.13	68° 47.86	6.7	166.7	3905	"	"	"	"	"	"	Bottom gone
	22:30	87° 14.79	67° 48.81	8.2	163.0	3955	20	"	"	"	"	"	Bottom Back
	22:45	87° 14.53	67° 51.94	2.2	42.7	4002	20	"	"	"	"	"	Station 2245 Ends 7:10
20.08.	07:30	87° 15.53	68° 17.74	0.7	277.1	4334	10-20	"	"	4	"	Bejmann	Station 0745
	07:45	87° 15.55	68° 16.77	0.3	252.8	4335	15-25	"	100	4	"	"	
	08:25	87° 15.32	68° 17.67	0.3	59.0	4344	25-50	"	"	"	"	"	
	16:40	87° 16.17	68° 52.61	0.2	48.0	4469	~15	"	"	4	"	"	
	17:20	87° 16.26	68° 53.53	0.6	328.7	4472	~75	"	"	"	"	"	
	21:38	4:45											
21.08	5:20	87° 16.116N	69° 11.550E	3.7	332	4557	~60						Anfahrt auf Station
	5:37	87° 18.287N	69° 12.606E	0	336	4522/4552B	60						Station
	6:05	87° 18.3 N	69° 13.0 E	0.3	73.2	4558	30-40	5000	200	5.5	2	Nowaczyk	* Bogstrahle ist an
	9:10	87° 18				4554	"	5000	200	"	4	Bejmann	Stationenende 9:45
	9:20	87° 17 47	69° 47 38	8.7	133.9	4537	10-15	"	"	4	8	"	
	9:45	87° 12 23	70° 20 26	8.8	20.6	4579	"	"	"	4	6	"	
	10:00	87° 16 62	70° 48 83	9.7	80.0	4450	"	"	"	5.5	8	"	
	10:15	87° 16 96	71° 10 37	.8	85.2	4319	40	"	"	"	"	J. Thiede	
	10:30	87° 16 74	71° 13 39	.4	310.0	4353	40	"	"	"	"	"	
	10:45	87° 16 75	71° 13 22	1.9	304.7	4351	"	"	"	"	"	"	
	11:50	87° 13.47	72° 23.81	5.3	54.6	4070	20	"	"	"	"	Bejmann	Bottom 11:30 ARK 8:11
	12:00	87° 13.90	72° 27.10	4.9	74.3	4088	20	"	"	"	"	"	
	12:15	87° 20 13	73° 01.30	5.5	58.2	4168	20	"	"	"	"	Vorcu	
	12:30	87° 20 90	73° 26 41	5.0	44.2	4151	35	"	"	"	"	"	



Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Piers	Name	Comments
21-02	12:45	87° 21' 22	73° 50' 09	7.5	25.2	4132	25	5000	200	5.5	8	VORON	
"	13:00	87° 22' 24	74° 09' 00	8.8	96.5	4128	?	"	"	"	"	"	
"	13:16	87° 22' 28	74° 33' 11	6.0	104.5	3811	15	"	"	"	"	"	No. 1325 Storage off at 1325.
"	13:38	87° 23' 21	75° 01' 21	6.0	71.7	4154	?	"	"	"	"	"	
"	13:47	87° 23' 20	75° 29' 39	2.9	32.6	4142	?	"	"	"	"	"	Storage on 1350
"	14:00	87° 24' 41	75° 53' 41	8.0	41.4	4434	50	"	"	"	"	"	
"	14:10	87° 25' 11	75° 47' 25	14.7	83.2	4429	50	"	"	"	"	BERGSTEN	
"	14:30	87° 25' 31	75° 59' 60	0.9	56.6	4429	40	"	"	"	"	"	
"	14:45	87° 25' 69	76° 19' 27	4.3	86.7	4430	?	"	"	"	"	"	
"	15:00	87° 25' 77	76° 47' 23	6.3	79.4	4426	50	"	"	"	"	"	
"	15:15	87° 26' 31	77° 13' 83	6.0	58.3	4425	25	"	"	"	"	"	
"	15:30	87° 26' 49	77° 34' 31	6.1	30.2	4431	30	"	"	"	"	"	
"	15:45	87° 27' 29	77° 55' 40	4.6	63.0	4429	35	"	"	"	"	"	
"	16:00	87° 27' 24	78° 12' 38	3.5	226.5	4438	45	"	"	"	"	"	
"	16:15	87° 28' 37	78° 33' 12	10.4	063.6	4434	45	"	"	"	"	BRASS	STRONG REFLECTOR AT 60 M
"	16:30	87° 28' 83	78° 59' 38	4.9	030.5	4434	45	"	"	"	"	"	
"	16:45	87° 29' 31	79° 18' 65	2.5	074.1	4433	60	"	"	"	"	"	
"	17:00	87° 29' 74	79° 31' 74	2.8	039.6	4433	60	"	"	"	"	"	
"	17:15	87° 29' 75	79° 54' 20	0.1	175.8	4431	60	"	"	"	"	"	Station 17:15
"	17:50	87° 29' 75	80° 12' 48	5.5	88.9	4429	4	"	"	"	6	"	Station made 17:45
"	18:00	87° 29' 89	80° 41' 07	8.0	75.7	4427	11	"	"	"	"	FREDERICKS	
"	18:14	87° 29' 90	81° 17' 03	1.3	92.6	4419	30-40	"	"	"	"	"	
"	18:30	87° 29' 87	81° 48' 09	3.0	154.0	4420	4	"	"	"	"	"	
"	18:45	87° 29' 43	81° 59' 66	6.1	77.0	4426	40-50	"	"	"	"	"	
"	19:00	87° 29' 43	82° 26' 97	8.5	181.0	4430	60	"	"	"	"	"	
"	19:15	87° 29' 97	83° 00' 53	8	129.2	4429	50	"	"	"	"	"	
"	19:30	87° 28' 82	83° 06' 59	7.2	139.7	4426	50	"	"	"	"	"	
"	19:45	87° 28' 59	83° 41' 78	.3	374.6	4421	50	"	"	"	"	"	
"	20:00	87° 28' 62	83° 19' 83	6.7	92.0	4425	50	"	"	"	"	GRID	
"	20:15	87° 28' 93	83° 43' 25	1.2	194.8	4423	"	"	"	"	"	"	
"	20:30	87° 28' 71	83° 58' 31	7.9	149.7	4426	"	"	"	"	"	"	
"	20:45	87° 28' 59	84° 18' 57	2.5	21.1	4424	"	"	"	"	"	"	
"	21:00	87° 28' 72	84° 30' 00	6.2	83.2	4427	"	"	"	"	"	"	
"	21:15	87° 29' 08	84° 48' 73	0.5	193.3	4428	"	"	"	"	"	"	
"	21:30	87° 29' 06	84° 50' 31	2.7	89.7	4426	"	"	"	"	"	"	
"	21:45	87° 29' 39	85° 27' 46	6.8	52.4	4428	"	"	"	"	"	"	
"	22:00	87° 29' 80	85° 44' 49	2.5	94.2	4427	"	"	"	"	"	Jedrey	
"	22:15	87° 30' 05	86° 10' 63	6.7	129.5	4428	"	"	"	"	"	"	
"	22:30	87° 29' 76	86° 39' 10	6.1	94.6	4426	55	"	"	"	"	"	
"	22:45	87° 29' 84	87° 16' 37	1.2	145.2	4356	23	"	"	"	"	"	
"	23:00	87° 30' 14	87° 22' 60	2.9	124.6	4354	20	"	"	"	"	"	



Date	Time	Latitude	Longitude	Speed	Course	Waterdepth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
21.8	2315	87° 29' 47"	87° 41' 11"	1.8	89.0	4402	30 m	5000	200	5.5	6	Jodrey	
"	2334	87° 29' 30"	88° 15' 54"	6.5	161.6	4251	"	"	"	"	"	"	Bottom gone
"	2345	87° 29' 55"	88° 17' 40"	6.4	150.2	4307	40	"	"	"	"	"	Bottom Back
22.8	000	87° 29.6 N	88° 43.5 E	0.6	174.	4308	40	5000	200	4	6	Nowaczyk	
"	015	87° 29.6	88° 58.7	3.0	83.2	4422	60 m	5000	200	4	4	"	
"	030	87° 30.3	88° 27.6	5.3	49.1	4425	60 m	5000	200	4	4	"	
"	045	87° 30.4	88° 43.2	4.3	139.1	4426	60-70m	5000	200	4	4	"	
"	100	87° 30.1	88° 57.4	0.3	96.2	4424	70m	5000	200	4	1	"	02 Stations begin
"	020	87° 29.3	90° 53.6	0.3	117.2	4427	~80m	5000	200	4	1	Nowaczyk	2nd Station
"	1331	87° 29' 05"	91° 26' 44"	0.3	54.6	4427	80m	"	"	"	1	Varren	"
"	1418	87° 29' 10"	91° 57' 73"	0.4	278.1	4426	~80m	"	"	Frequency lost	1	Bergmann	
"	1450	87° 29' 16"	91° 54' 75"	0.1	153.5	4426	"	"	"	4	4	"	Stations made 20.03
"	2045	87° 29' 25"	91° 58' 07"	3.8	230.5	4426	60m	"	"	5.5	6	"	
"	2050	87° 29' 22"	91° 58' 34"	1.4	50.8	4426	"	"	"	"	"	"	
"	2045	87° 29' 45"	92° 19' 63"	0.7	91.0	4426	"	"	"	"	"	GARD	
"	2100	87° 29' 53"	92° 26' 58"	5.5	98.9	4425	"	"	"	"	"	"	
"	2115	87° 29' 46"	92° 43' 78"	8.6	108.2	4424	50	"	"	"	"	"	
"	2130	87° 29' 52"	93° 00' 93"	5.9	93.4	4421	"	"	"	"	"	"	
"	2145	87° 29' 73"	93° 17' 53"	4.0	76.7	4424	"	"	"	"	"	"	
"	2200	87° 29' 50"	93° 30' 90"	5.3	61.7	4423	45	"	"	"	"	Jodrey	
"	2215	87° 30' 02"	93° 53' 73"	7.3	99.8	4425	50	"	"	"	"	"	
"	2230	87° 29' 94"	94° 10' 33"	3.3	281.6	4425	55	"	"	"	"	"	
"	2245	87° 30' 27"	94° 24' 51"	9.4	98.2	4425	55	"	"	"	"	"	
"	2300	87° 30' 25"	94° 36' 44"	3.2	102.5	4425	"	"	"	"	"	"	Back up 23.00
"	2315	87° 30' 60"	95° 28' 46"	3.7	54.5	4426	50	"	"	"	"	"	APR 8-2
"	2400	87° 30' 83"	95° 51' 53"	.5	307.8	4418	50	"	"	"	"	"	
23.08	0016	87° 30' 57"	96° 03' 00"	2.5	71.5	4428	"	"	"	"	"	Nowaczyk	
"	0030	87° 30' 72"	96° 16' 10"	2.1	52.9	4421	"	"	"	"	"	"	
"	0046	87° 30' 08"	96° 45' 85"	3.0	117.4	4422	"	"	"	"	"	"	
"	0100	87° 30' 03"	96° 47' 24"	0.6	223.1	4424	"	"	"	"	"	"	
"	0116	87° 30' 70"	96° 54' 24"	3.8	117.3	4424	"	"	"	"	"	"	
"	0130	87° 30' 43"	96° 59' 87"	4.6	267.8	4424	"	"	"	"	"	"	
"	0146	87° 30' 50"	97° 17' 15"	1.2	117.7	4403	"	"	"	"	"	"	
"	0200	87° 30' 51"	97° 22' 22"	0.8	244.7	4381	"	"	"	"	"	Bergmann	
"	0215	87° 30' 28"	97° 27' 74"	2.3	84.0	4405	"	"	"	"	"	"	
"	0230	87° 30' 23"	97° 25' 58"	3.1	125.6	4408	"	"	"	"	"	"	
"	0245	87° 29' 35"	97° 54' 46"	3.7	708.9	4423	"	"	"	"	"	"	
"	0300	87° 29' 78"	98° 07' 27"	1.7	102.8	4422	"	"	"	"	"	"	
"	0315	87° 29' 38"	98° 22' 73"	4.8	134.4	4418	"	"	"	"	"	"	Dorche. bal. angeschoben
"	0330	87° 29' 13"	98° 23' 86"	0.7	207.4	4424	"	"	"	"	"	"	Raumfahrt
"	0345	87° 29' 12"	98° 25' 69"	2.7	136.8	4424	"	"	"	"	"	"	



Handwritten notes and a small sketch of a profile or measurement.

Back up 23.00
APR 8-2

Dorche. bal. angeschoben
Raumfahrt

Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
23.8	0400	87° 28.99	98° 50.39	3.8	96.5	4413	50	5000	200	5.5	6	GARD	
"	415	87° 28.77	99° 04.21	3.0	265.0	4423	"	"	"	"	"	"	
"	430	87° 28.77	99° 06.70	4.3	63.6	4414	"	"	"	"	"	"	
"	445	87° 29.18	99° 13.66	1.6	221.9	4404	"	"	"	"	"	"	
"	500	87° 29.36	99° 19.77	0.2	230.3	4421	"	"	"	"	"	"	
"	515	87° 30.07	99° 10.57	3.1	97.2	4407	"	"	"	"	"	"	
"	530	87° 29.86	99° 52.11	5.9	59.5	4423	"	"	"	"	"	"	
"	545	87° 29.80	100° 10.76	4.5	152.4	4422	"	"	"	"	"	"	
"	600	87° 29.19	100° 22.33	0.2	71.3	4422	"	"	"	"	"	"	
"	615	87° 29.24	100° 25.38	0.2	354.3	4422	"	"	"	"	"	"	
"	630	87° 28.92	100° 36.23	3.7	157.6	4417	"	"	"	"	"	"	
"	645	87° 28.36	100° 38.39	4.4	109.3	4425	"	"	"	"	"	"	
"	702	87° 29.48	101° 01.38	9.7	42.0	4421	"	"	"	"	"	"	
"	715	87° 30.01	101° 16.81	1.0	59.8	4421	"	"	"	"	"	"	
"	730	87° 30.14	101° 22.42	3.9	86.4	4420	"	"	"	"	"	"	
"	745	87° 30.63	101° 26.62	4.6	63.2	4421	"	"	"	"	"	"	
"	800	87° 31.06	101° 51.90	4.6	359.6	4417	"	"	"	"	"	"	
"	800	87° 31.00	102° 04.21	3.6	45.3	4417	"	"	"	"	"	"	
"	900	87° 31.00	102° 57.97	5.1	63.8	4410	30	"	"	"	"	"	
"	915	87° 31.55	103° 00.67	0.9	40.7	4011	30	"	"	"	"	"	
"	930	87° 32.12	103° 10.65	2.9	213.5	4415	30	"	"	"	"	"	
"	945	87° 32.98	103° 23.99	0.7	81.2	4413	40	"	"	"	"	"	
"	1200	87° 33.4	103° 27.4	0.2		4415	40	"	"	4	"	"	
"	1332	87° 33.8	103° 31.2	0.3	19.5	4415	50	"	"	"	"	"	
24.08	0742	87° 39.37	104° 06.09	0.3	348.5	4417	60	"	"	"	"	"	
"	0842	87° 40.07	104° 03.24	0.4	347.1	4410	60	"	"	Frequency lost	"	"	
"	1110	87° 40.39	104° 05.32	1.7	471.5	4411	50	"	"	5.5	6	"	
"	1130	87° 39.80	104° 27.26	7.2	82.0	4410	"	"	"	"	"	"	
"	1145	87° 40.43	104° 43.19	4.9	277.5	4409	40	"	"	"	"	"	
"	1200	87° 40.39	105° 05.69	5.3	47.1	4408	"	"	"	"	"	"	
"	1205	87° 40.44	105° 26.68	4.1	109.3	4405	"	"	"	"	"	"	
"	1220	87° 40.48	105° 28.96	0.3	320.1	4395	40	"	"	"	"	"	
"	1242	87° 40.57	105° 30.14	1.3	89.3	4395	40	"	"	"	"	"	
"	1300	87° 40.60	105° 30.46	0.5	341.0	4396	40	"	"	"	"	"	
"	1315	87° 40.78	105° 28.42	2.6	86.5	4406	40	"	"	"	"	"	
"	1332	87° 40.84	105° 31.98	0.8	312.	4406	40	"	"	"	"	"	
"	1345	87° 40.52	105° 46.64	1.8	281.6	4406	35	"	"	"	"	"	
"	1400	87° 40.41	106° 05.60	4.7	53.9	4398	"	"	"	"	"	"	
"	1415	87° 40.61	106° 08.27	0.6	66.7	4407	"	"	4	"	"	"	GARD

Spielberg

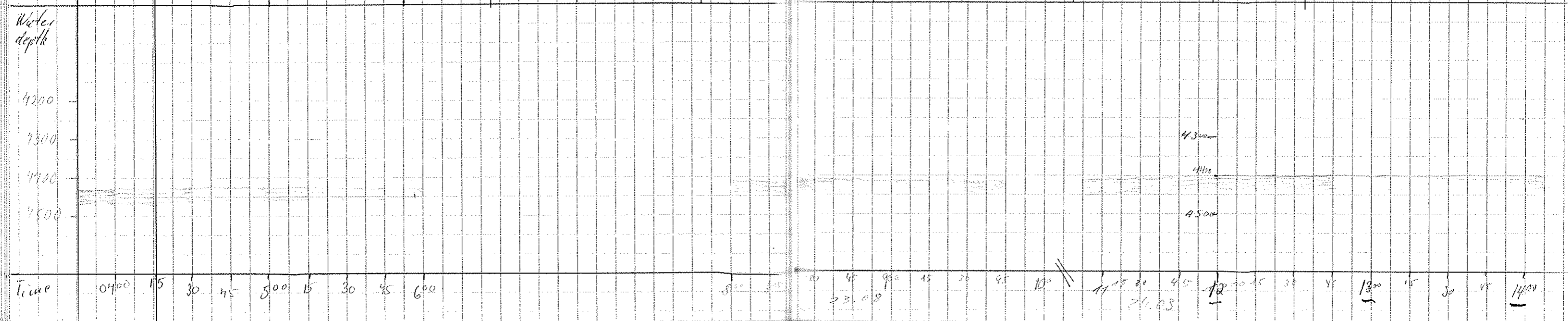
Bequerra

Varren

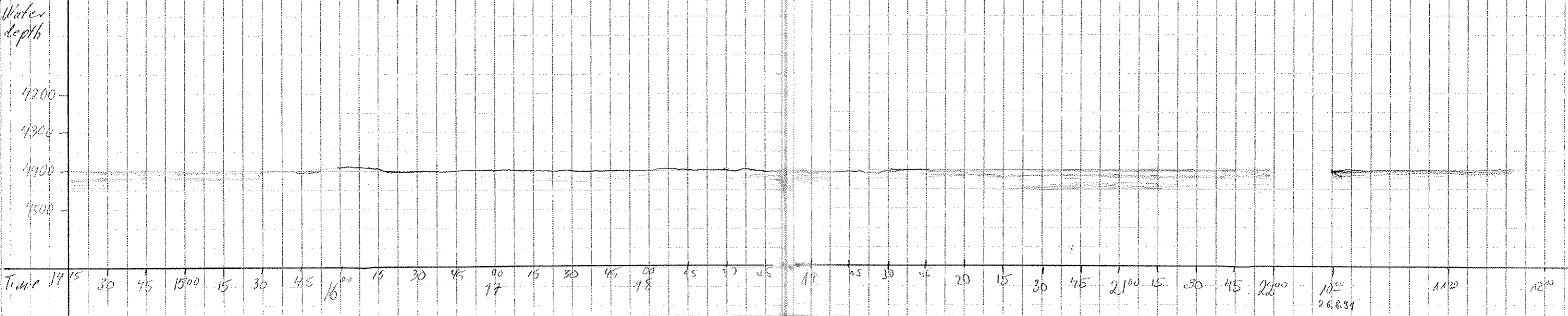
Varren

946 Station-beginn
 Drucker hat ungerade
 Klause Slope bewahrt
 1300m Druckwasser betriebe
 bereit Alle 300s wird
 ungerade
 Stationen 11.05

Many stops and running

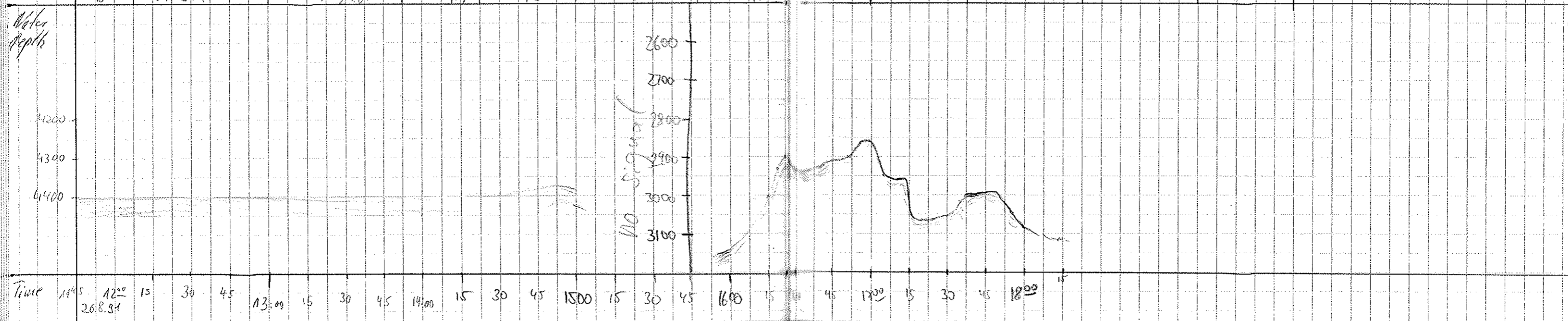


Date	Time	Latitude	Longitude	Speed	Course	Waterdepth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
24.8	14.30	87° 40.50	106° 46.66	0.5	6.3	4397	40	5000	200?	5.5	6	GARD	
"	14.45	87° 40.78	106° 28.88	7.3	59.5	4405	"	"	"	"	"	"	
"	15.00	87° 40.65	106° 38.22	7.4	251.3	4405	"	"	"	"	"	"	
"	15.15	87° 40.79	106° 41.26	4.7	62.6	4404	"	"	"	"	"	"	
"	15.30	87° 40.95	106° 47.92	0.6	57.1	4395	"	"	"	"	"	"	
"	15.45	87° 41.04	106° 47.89	0.6	321.5	4404	35	"	"	"	"	BERGSTEN	
"	16.05	87° 41.18	106° 46.65	4.1	277.3	4378	35	"	"	"	4	"	Newark PS 1600 US.
"	16.15	87° 41.23	106° 46.87	5.5	079.9	4402	40	"	"	"	"	BRASS	
"	16.30	87° 41.35	106° 45.05	2.4	070.4	4404	40	"	"	"	6	"	
"	16.45	87° 41.49	106° 47.17	5.3	081.6	4401	60	"	"	"	"	"	
"	17.00	87° 41.71	107° 01.57	3.2	075.6	4402	60	"	"	"	"	"	
"	17.15	87° 41.55	107° 17.32	2.0	139.1	4401	60	"	"	"	"	"	
"	17.30	87° 41.32	107° 22.15	2.8	087.9	4402	60	"	"	"	"	"	
"	17.45	87° 41.44	107° 22.67	5.1	201.8	4404	60	"	"	"	"	"	
"	18.00	87° 41.15	107° 18.15	4.6	220.9	4403	60	"	"	"	"	FRIEDRICKS	
"	18.15	87° 40.72	107° 23.13	3	7.9	4399	60	"	"	"	"	"	
"	18.30	87° 40.74	107° 25.80	1.1	200.0	4400	50	"	"	"	"	"	
"	18.45	87° 40.76	107° 27.30	9	88.2	4401	60	"	"	"	"	"	
"	19.00	87° 40.03	107° 41.52	5.3	205.2	4403	50	"	"	"	"	"	
"	19.15	87° 39.60	107° 50.33	7	331.2	4403	50	"	"	"	"	"	
"	19.30	87° 40.00	108° 6.74	10.2	45.4	4402	60	"	"	"	"	"	
"	19.45	87° 40.46	108° 10.58	8	26.6	4401	60	"	"	"	"	"	
"	20.00	87° 40.77	108° 17.75	7.4	63.9	4401	"	"	"	"	"	GARD	
"	20.15	87° 41.06	108° 30.56	3.6	99.6	4398	"	"	"	"	"	"	
"	20.30	87° 41.09	108° 32.29	2.0	277.2	4398	"	"	"	"	"	"	
"	20.45	87° 41.34	108° 39.50	5.0	221.4	4400	"	"	"	"	"	"	
"	21.00	87° 41.68	108° 51.58	3.2	118.2	4396	"	"	"	"	"	"	
"	21.15	87° 41.55	108° 59.76	7.7	42.2	4398	"	"	"	"	"	"	
"	21.30	87° 42.45	109° 02.28	3.3	88.2	4392	"	"	"	"	"	"	
"	21.45	87° 42.73	109° 16.77	5.2	287.2	4397	"	"	"	"	"	"	
"	22.00	87° 42.83	109° 14.53	6.6	112.3	4393	"	"	"	"	"	"	
"	22.15	87° 42.82	109° 22.34	8.5	121.1	4396	"	"	"	"	"	Jodrey	on station
"	22.30	87° 42.56	109° 24.85	6	61.5	4396	"	"	"	"	"	"	
25.08	10.00	87° 45.68	108° 52.68	0.2	289.0	4395	40-50	"	"	4	1	Boguslav	
	14.30	87° 46.78	108° 33.90	0.2	289.6	4396	50	"	"	4	1	"	Reckup 1330
26.8.81	10.00	87° 47.86	107° 44.2	0.9	135.2	4397	~50m	5000	100!	4	1	Nowaczyk	ARK 0-13
	10.55	87° 47.7	107° 39.2 E	3.0	345.1	4397	50	5000	200	4	4	1	Frequency second station
	11.45	87° 48.1	107° 39.8	0.7	101.8	4397	50	5000	200	4	4	1	Newark PS
	11.30	87° 47.9	108° 04.0 E	6.3	199.4	4396	50	5000	200	4	4	1	
	11.45	87° 47.8	108° 38.3 E	3.1	60.4	4395	50	5000	200	4	4	1	

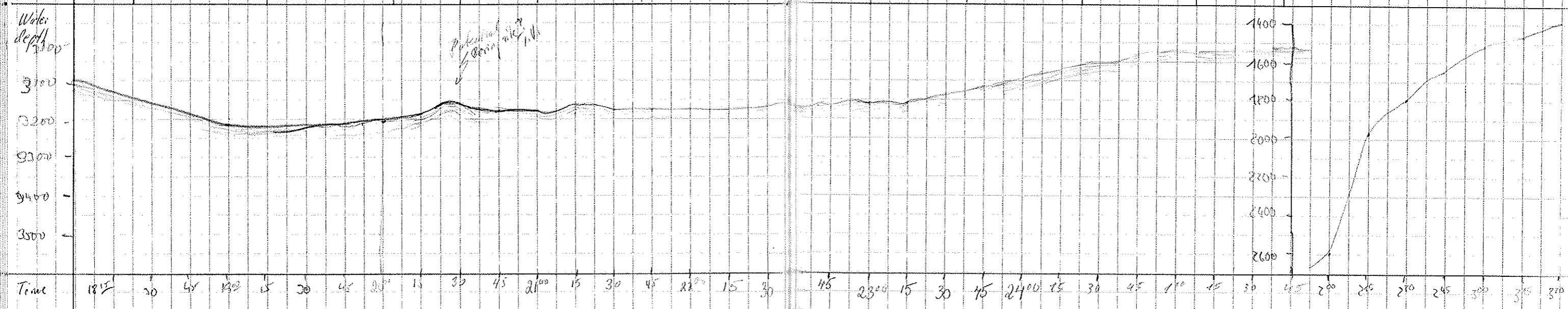


Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
26.8.31	11:45	87° 47.8' N	108° 38.5' E	3.1	60.4	4345	50	5000	200	4	1	Nowaczyk	Scotty, beam with mech. Horse!
	12:00	87° 48.152' N	109° 50.14' E	5.6	94	4392	50	"	"	"	"	Kassas	
	12:15	87° 48.152' N	109° 35.814' E	7.5	92.0	4424 HS	40	"	"	"	"	Kassas	
	12:30	87° 48.521' N	110° 03.196' E	5.4	35.0	4352	50	"	"	"	"	"	
	12:45	87° 49.676' N	110° 21.083' E	5.4	57.7	4343	50	"	"	"	"	"	
	13:00	87° 49.365' N	110° 46.214' E	1.8	31	4378	50	"	"	"	"	"	
	13:15	87° 50.771' N	110° 49.830' E	4.2	311	4356	"	"	"	"	"	"	
	13:30	87° 51.052' N	110° 51.453' E	4.7	86	4358	"	"	"	"	"	"	
	13:45	87° 51.108' N	111° 14.203' E	2.6	89	4388	160	"	"	"	"	"	
	14:00	87° 50.90' N	111° 45.91' E	5.6	96	4374	"	"	"	"	"	Spillings	
	14:15	87° 51.00' N	112° 07.91' E	5.4	61.4	4374	"	"	"	"	"	"	
	14:30	87° 51.50' N	112° 31.44' E	5.3	59.7	4388	"	"	"	"	"	"	
	14:45	87° 51.77' N	112° 58.82' E	1.3	79.1	4382	"	"	"	"	"	"	
	15:00	87° 51.84' N	113° 13.81' E	3.2	126.4	43	"	"	"	"	"	"	
	15:30	87° 51.72	113 52.65	6.0	96.9	3774	—	"	"	"	"	"	
	15:45	87° 52.26	114 19.82	4.2	39.7	3102	—	"	"	"	"	"	
	16:00	87° 52.81	114 48.29	7.7	35.8	3203	20-30	"	"	5.5	8	"	
	16:15	87° 54.05	115° 03.12	4.5	31.4	3004	"	"	"	"	"	Jain	
	16:20	87° 54.35	115° 06.81	5.8	44.1	2920	30	"	"	"	"	"	
	16:25	87° 54.61	115° 08.64	2.3	38.0	2897	30	"	"	"	"	"	
	16:30	87° 54.75	115° 02.33	4.4	3.2	2928	30-40	"	"	"	"	"	
	16:35	87° 55.12	115° 00.72	0.6	8.7	2923	40	"	"	"	"	"	
	16:40	87° 55.13	115° 00.68	0.6	14.4	2922	40	"	"	"	"	"	
	16:45	87° 55.20	115° 05.09	3.6	49.5	2910	30	"	"	"	"	"	
	16:50	87° 55.22	115° 14.69	3.5	77.5	2902	30	"	"	"	"	"	
	16:55	87° 55.68	115° 28.71	7.6	55.0	2856	30	"	"	"	"	"	
	17:00	87° 55.79	115° 31.79	4.3	66.2	2856	30	"	"	"	"	"	
	17:05	87° 55.96	115° 42.97	3.2	73.5	2946	—	"	"	"	"	"	
	17:10	87° 56.18	115° 58.97	4.3	84.5	2956	20-30	"	"	"	"	"	
	17:15	87° 56.42	116° 03.76	4.3	21.5	3056	20	"	"	"	"	"	
	17:20	87° 56.71	116° 08.16	4.7	56.8	3063	20-30	"	"	"	"	"	
	17:25	87° 56.94	116° 15.5	5.2	54.3	3064	30	"	"	"	"	"	
	17:30	87° 57.07	116° 27.61	1.2	77.6	3053	30-40	"	"	"	"	"	
	17:35	87° 57.31	116° 36.76	5.3	37.3	3011	30	"	"	"	"	"	
	17:40	87° 57.49	116° 39.44	5.4	44.2	3004	30	"	"	"	"	"	
	17:45	87° 57.65	116° 48.72	3.3	80.9	2996	20-30	"	"	"	"	"	
	17:50	87° 57.65	116° 55.47	4.1	106.6	3005	30	"	"	"	"	"	
	17:55	87° 57.66	117° 05.69	3.3	57.2	3046	40	"	"	"	"	"	
	18:00	87° 58.01	117° 14.49	4.4	42.2	3080	30	"	"	"	"	"	
	18:05	87° 58.55	117° 29.21	4.7	78.2	3135	40	"	"	"	"	J. Theod.	

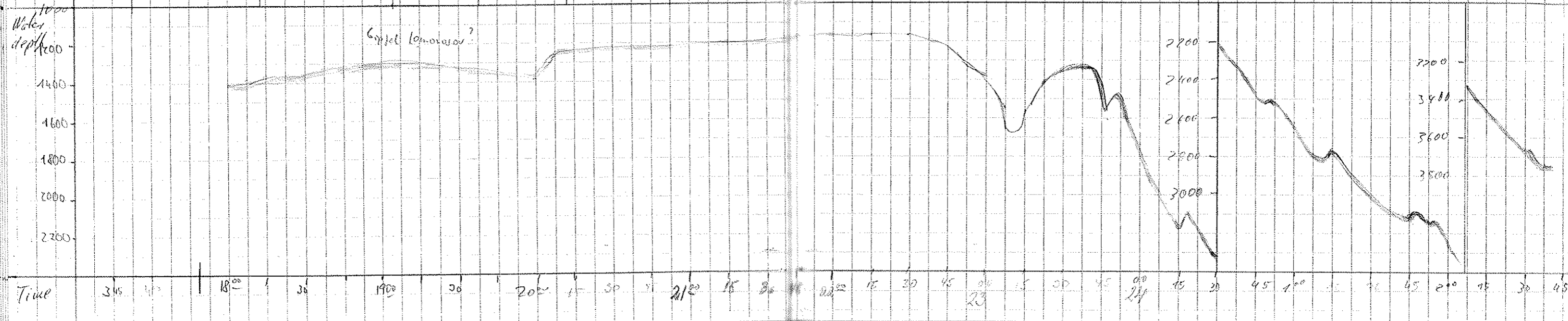
Seamount/Plateau
 → excellent station for Juniper for
 geologic sections !!!
 (Rudy's Seamount)



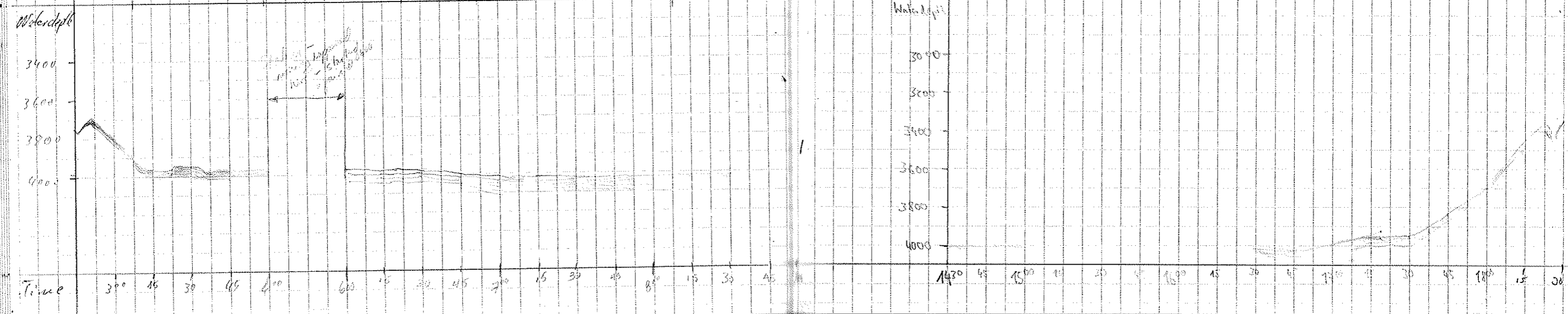
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
26.89	18 ³⁰	87 51.29	118 00.34 E	6.4	43	3177	40	5000	200	5.5	8	J. Thied	Rate #5 at 18 ³⁰
	18 ⁴⁵	87 53.02	118 25.49	2.9	39	3197	"	"	"	"	"	"	
	19 ⁰⁰	88 00.87	119 00.80	7.6	89.3	3214	"	"	"	"	"	"	
	19 ¹⁵	88 01.07	119 12.28	2.1	60.5	3210	"	"	"	"	"	"	
	19 ³⁰	88 01.55	119 26.14	3.3	69.8	3213	"	"	"	"	6	"	
	19 ⁴⁵	88 01.73	119 51.80	1.0	121.9	3215	"	"	"	40	11	"	inj for Gerard
	20 ⁰⁰	88 01.17	120 15.27	8.0	81.5	3208	"	"	"	40	5	"	
	20 ¹⁵	88 02 35	120 45.95	5.5	85.3	3198	50	"	"	"	5	T. Verne	
	20 ³⁰	88 02 28	121 21.97	9.0	71.5	3196	40	"	"	"	"	"	
	20 ⁴⁵	88 02 40	121 32.80	5.9	30.0	3158	50	"	"	"	"	"	
	21 ⁰⁰	88 03 26	122 25.42	6.6	61.8	3164	30	"	"	"	"	"	
	21 ¹⁵	88 03 27	122 50.43	7.1	70.6	3160	"	"	"	"	"	"	
	21 ³⁰	88 03 37	123 02.25	4.6	89.1	3178	"	"	"	"	"	"	
	21 ⁴⁵	88 03 40	123 54.79	6.3	118.6	3173	"	"	"	"	"	"	
	22 ⁰⁰	88 03 60	124 14.65	6.4	142.8	3178	"	"	"	"	"	GARD	
	22 ¹⁵	88 02 93	124 50.12	8.7	135.9	3185	"	"	"	"	"	"	
	22 ³⁰	88 03 38	125 18.82	5.4	73.0	3175	"	"	"	"	"	"	
	23 ¹²	88 02 23	126 55.33	5.5	86.3	3157	"	"	"	5.5	4	"	27 ³⁵ disc fall (charge)
	23 ²⁰	88 02 19	127 17.43	6.1	69.9	3141	40	"	"	"	8	"	
	23 ⁴⁵	88 02 32	127 55.63	2.9	125.2	3113	40	"	"	"	"	"	
	0 ⁰⁰	88 01 88	128 27.44	3.7	105.8	3086	30	"	"	"	"	"	
27.8	0 ¹⁵	88 02 14	129 05.72	2.2	77.9	3062	40	"	"	"	"	"	
	0 ³⁰	88 02 27	129 19.12	3.4	327.7	3053	30-40	"	"	41	"	Bergue	
	0 ⁴⁵	88 02 07	129 46.62	2.8	59.1	3033	"	"	"	"	8	"	
	1 ⁰⁰	88 02 46	130 20.32	7.1	87.8	3030	"	"	"	"	"	"	
	1 ¹⁰	88 02 79	130 29.27	7.5	84.8	3022	"	"	"	"	"	"	
	1 ³⁰	88 02 13	130 45.25	4.0	126.5	3019	"	"	"	"	"	"	
	1 ⁴⁵	88 01 64	131 18.27	4.0	80.6	3035	"	"	"	"	"	"	Ken. Bachmayer
	2 ⁰⁰	88 02 20	131 47.27	2.5	99.3	2560	"	"	"	"	4	"	
	2 ¹⁵	88 02 10	132 43.28	4.1	145	2971	"	"	"	"	"	Reibert	
	2 ³⁰	88 01 29	132 54.95	6.1	107.2	1007	"	"	"	"	"	"	
	2 ⁴⁵	88 01 24	133 15.04	0.8	47.0	1679	"	"	"	"	"	"	
	3 ⁰⁰	88 01 45	133 34.29	2.0	74.9	1512	45	"	"	"	"	"	
	3 ¹⁵	88 02 30	133 56.95	3.6	86.8	1475	35	"	"	"	"	"	
	3 ³⁰	88 02 54.8	134 35.58	7.5	91.9	1396	45	"	"	"	"	"	



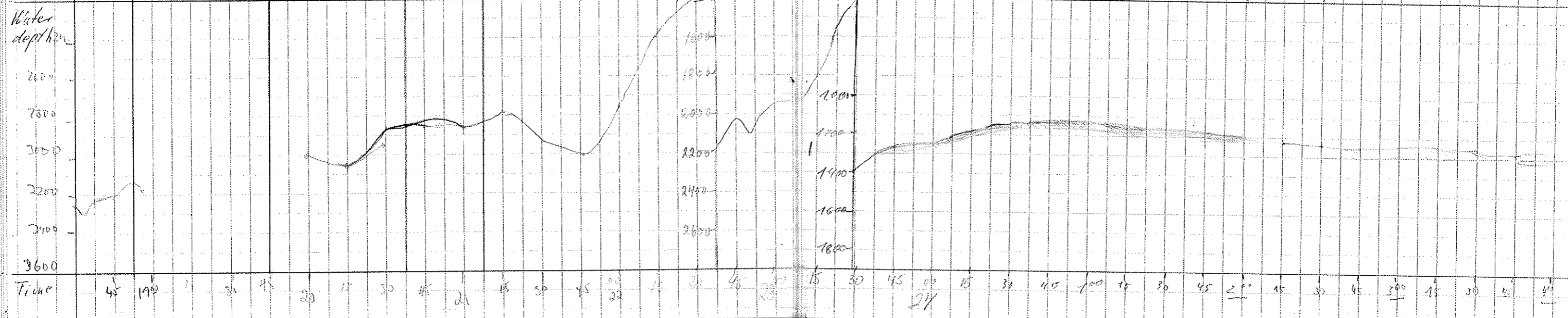
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
27.8	3:45	88°02'08"	134°08'11"	7.2	85.1	1380	48	5000	200	5.5	8	St. best	Station 3:46
	12:32	88°02'08"	134°31'48"	0.1	278.3	1409	100	"	100	4	1	Boqueman	
	16:25	88°02'33"	134°19'05"	0.7	357.6	1437	4	"	"	Frequency test		"	Ende Station: 17:55
27.8	18:00	88°02'47"	134°26'25"	3.7	98.9	1408	20	1000	200	4.0	4	Thick	W. pl.
	18:15	88°02'47"	135°01'41"	6.4	46.1	1382	20	1000	200	4.0	4	"	"
	18:20	88°02'59"	135°15'38"	1.9	86.5	1376	20	"	"	"	"	"	"
	18:45	88°03'02"	135°49'15"	5.8	75.2	1350	20	"	"	"	"	"	See station, frequency plot on
	19:00	88°03'14"	136°17'09"	5.1	158.7	1334	20	"	"	"	"	"	Station 20:00
	19:15	88°01'58"	137°13'26"	5.8	76.7	1214	20	"	"	"	"	"	"
	19:20	88°01'02"	137°59'17"	6.2	18.9	1288	"	"	"	"	"	"	"
	19:45	88°03'20"	137°51'25"	6.5	36.8	1292	"	"	"	"	"	"	"
	20:00	88°03'08"	138°42'29"	6.1	79.6	1250	"	"	"	"	"	"	"
	20:15	88°02'57"	139°20'21"	5.1	104.6	1231	"	"	"	"	"	T. Vorren	"
	20:30	88°02'00"	140°06'34"	5.0	77.6	1229	20	"	"	"	"	"	"
	20:45	88°03'12"	140°43'23"	3.5	103.6	1216	20	"	"	"	"	"	"
	21:00	88°03'37"	141°04'29"	4.6	5.8	1210	"	"	"	"	"	"	"
	21:15	88°03'53"	141°39'53"	6.0	80.3	1198	"	"	"	"	"	"	"
	21:20	88°03'58"	142°17'20"	4.8	110.5	1186	"	"	"	"	"	"	"
	21:45	88°03'57"	142°54'09"	7.4	104.1	1185	"	"	"	"	"	"	"
	22:00	88°03'08"	143°21'29"	2.7	118.5	1180	30	"	"	"	"	"	"
	22:15	88°02'03"	143°36'02"	6.0	117.2	1170	"	"	"	"	"	"	BECAUSE
	22:30	88°02'25"	144°05'03"	3.4	54.6	1177	25	"	"	"	"	"	"
	22:45	88°02'30"	144°34'88"	4.5	59.8	1222	2.5	"	"	"	"	"	"
	23:00	88°02'02"	145°06'56"	4.1	111.3	1375	0.5	"	"	"	"	"	(Very steep and deep, and loss of 200
	23:15	88°02'10"	145°50'01"	4.4	45.4	1564	0-5	"	"	"	"	"	penetration. No record on
	23:30	88°03'13"	145°38'02"	3.0	4.7	1377	15	"	"	"	"	"	paper on Deso. due to
	23:45	88°05'23"	145°58'93"	8.6	78.6	1408	5	"	"	"	"	"	Rolle 6 J
	24:00	88°04'05"	146°47'31"	8.4	119.4	1774	"	"	"	"	"	"	"
28.08	0:15	88°04'09"	147°27'26"	5.6	22.4	2044	10	"	"	"	"	Boqueman	"
	0:30	88°05'19"	148°05'57"	7.0	119.7	2233	"	"	"	"	"	"	"
	0:45	88°05'55"	148°46'54"	6.5	53.1	2534	"	"	"	"	"	"	"
	0:59	88°05'42"	149°38'01"	7.4	116.0	2730	"	"	"	"	"	"	"
	0:15	88°09'15"	150°12'29"	5.9	83.3	2759	"	"	"	"	"	"	"
	0:30	88°04'05"	150°50'26"	1.6	82.2	2954	2	"	"	"	"	"	"
	0:45	88°05'27"	151°19'58"	4.5	37.7	3131	20	"	"	"	"	"	"
	0:59	88°05'14"	152°03'06"	7.0	134.0	3230	20	"	"	"	"	"	"
	0:15	88°04'55"	152°33'40"	5.3	126.7	3420	"	"	"	"	"	"	"
	0:30	88°04'01"	153°07'07"	4.8	143.3	3674	"	"	"	"	"	"	"
	0:45	88°03'06"	153°28'09"	3.6	27.0	3766	"	"	"	"	"	"	"



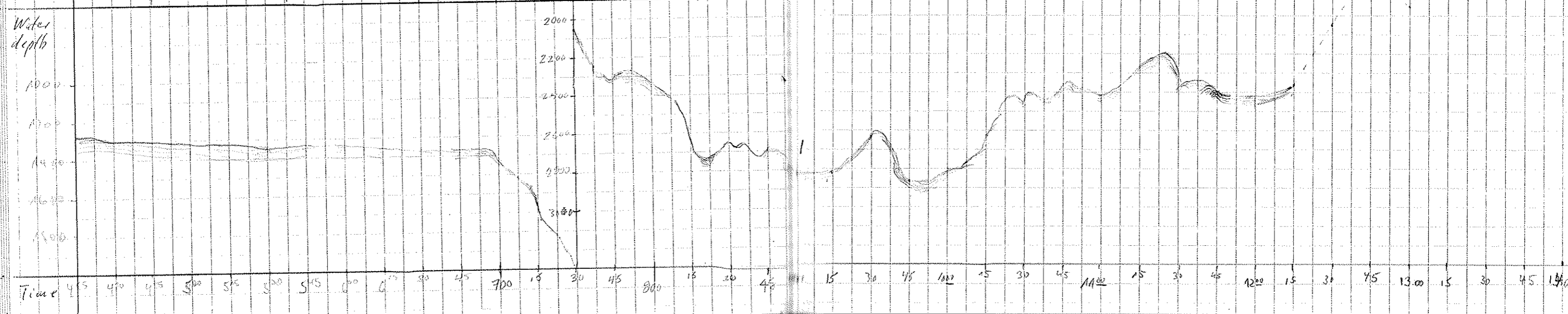
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	RANGE Scale	SCALE Range	Frequency	# of Pulses	Name	Comments
28.08	0200	88° 04. 24	153° 02. 34	7.2	88.6	38.47	20+	5000	200	4	4	Bargmann	
	03 15	88° 04. 87	154° 33. 60	6.3	121.5	37.86	40	"	"	"	"	"	
	03 30	88° 04. 85	155° 03. 93	2.4	107.7	37.58	"	"	"	"	"	"	Backup 0330 ARK 875
	04 06	88° 04. 97	155° 31. 69	0.7	28.6	37.21	"	"	"	"	1	"	Station 355
	06 10	88° 04. 415	153° 00. 816	5.8	123.1	39.27	20 m	5000	200	4	1	MOSHER	Mounted on watch and we were
	06 15	88° 04. 49	156° 47. 318	7.9	129.5	39.96	30-45m	5000	200	4	4	"	not on station any longer. The
	06 30	88° 04. 124	156° 19. 872	5.3	101.1	39.99	45 m	5000	200	4	4	"	station chosen 0330 was not
	06 45	88° 03. 648	157° 01. 718	5.8	103.4	4001	40-60m	5000	200	4	4	"	appropriate for 24 overgrouping,
	07 00	88° 03. 596	157° 38. 742	6.4	102.4	4003	60 m	5000	200	4	4	"	so we started using again.
	07 15	88° 04. 392	158° 32. 175	8.0	51.6	4005	40	5000	200	4	4	"	"
	07 20	88° 04. 861	159° 20. 619	6.3	134.	4006	40	5000	200	4	4	"	"
	07 45	88° 03. 73 N	159° 33. 47 E	7.8	156.4	4008	60+	5000	200	4	4	"	"
	0800	88° 01. 86 N	159° 40. 26 E	6.4	188.6	4008	60+	5000	200	4	4	MOSHER	
	0815	88° 00. 54 N	159° 09. 38 E	3.1	260.6	4009	60+	5000	200	"	"	"	
	0830	88° 00. 15 N	158° 32. 75 E	6.0	259.5	4010	60+	"	"	"	"	"	
	0835	88° 00. 10 N	158° 30. 9	0.6	248	4010	60+	"	"	"	"	"	COMING ON TO STATION
	09 00	88° 00. 12	158° 30. 3 E	0.3	86.5	4010	"	5000	200	5.5	4	Newark	
	10 30	88° 00. 08	158° 33. 0	0.4	86.0	4010	"	5000	100	4	1	"	
29.08	09 10	88° 01. 02	158° 24. 70	0.2	92.2	4003	60-70	"	100	4	1	Bargmann	
	10 24	88° 01. 64	159° 45. 28	0.6	65.7	4008	50-60	"	"	4	1	"	
	14 30	88° 01. 96	159° 54. 28	3.4	258.1	4009	"	"	"	4	4	Spelling	Station End
	45	88° 01. 80	159° 39. 39	5.5	253.1	4008	"	"	"	"	"	"	
	1500	88° 01. 78 N	159° 01. 57	3.8	267.6	"	"	"	"	"	"	"	
	15 19	88° 01. 50 N	158° 12. 01	6.7	275.5	4007	"	"	"	"	"	"	
	30	88° 01. 49 N	157° 41. 37	4.8	261.8	4006	"	"	"	"	"	"	
	45	88° 01. 38 N	157° 21. 09 E	4.1	262.5	4005	"	"	"	"	"	"	
	16 02	88° 00. 82 N	156° 28. 02 E	5.7	245.3	4002	"	"	"	"	"	"	
	16 15	88° 00. 33	155° 42. 64	4.1	237.	4000	50	"	"	"	"	"	
	16 30	87° 59. 85	155° 15. 22	8.5	261	3999	50	"	"	"	"	"	
	16 45	87° 59. 13	154° 35. 71	9.2	259	3998	50	"	"	"	"	"	
	17 00												
	17 22	87° 57. 29	155° 21. 20	5.8	252	3971	40	"	"	"	"	"	Backup ARK 876
	17 30	87° 57. 46	155° 14. 82	5.6	224.4	3966	30	"	"	"	"	"	
	17 45	87° 57. 109	155° 35. 21	8.3	245.3	3825	30	"	"	"	"	"	
	18 10	87° 57. 18	151° 57. 71	6.0	280	3712	20	"	"	"	"	"	
	18 15	87° 56. 69	151° 21. 19	8.4	246	3493	20	"	"	"	6	J. Dick	
	18 30	87° 55. 95	150° 34. 88	7.2	274	0261	"	"	200	"	"	"	
	18 45	87° 55. 80	150° 16. 63	5.2	293	3272	"	"	200	"	"	"	



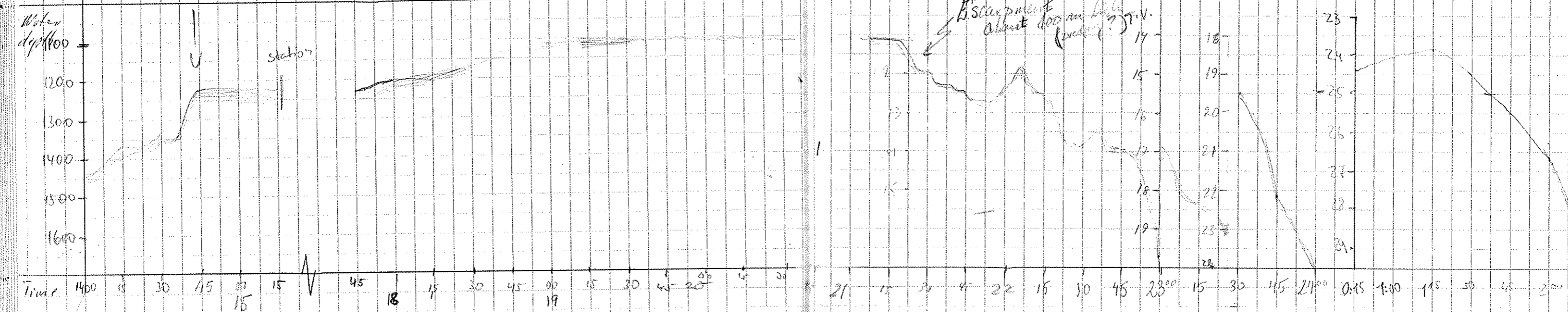
Date	TIME	LATITUDE	LONGITUDE	Speed	Course	Waterdth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
29.8.	19 02	87 55 72	149 36 60	6.0	238	3004	40	5000	200	6	6	J. Zora	
	19 10	87 55 89	149 03 17	4.9	275	2782	20	"	"	"	"	"	
	19 30	87 55 70	148 42 41	2.9	230	2668	"	"	"	"	"	"	STOP IN GEOMNIES
	19 45	87 55 28	148 49 38	1.9	147	2880	"	"	"	"	"	"	TURNING IN LARGE LANE
	20 00	87 54 12	149 09 24	2.6	125	2966	"	"	"	"	"	T. Voron	
	20 15	87 54 54	149 21 86	1.8	158	3053	30	"	"	"	"	"	
	20 30	87 53 41	149 19	2.3	159	2949	40	"	"	"	"	"	
	20 45	87 53 44	149 30	2.1	122	2850	40	"	"	"	"	"	
	21 01	87 53 19	149 38	1.1	080.9	2837	"	"	"	"	"	"	
	21 18	87 52 99	149 39	1.4	832	2981	30	"	"	"	"	"	
	21 34	87 53 80	149 26 57	4.2	343	2933	"	"	"	"	"	"	
	21 47	87 53 43	149 15 50	4.7	317	3004	"	"	"	"	"	"	
	22 00	87 55 86	148 52 62	6.6	328	2753	40	"	"	"	"	"	
	22 15	87 56 92	148 31 84	6.9	292.6	2409	30	"	"	"	"	"	
	22 30	87 56 78	147 49 52	6.9	289	2196	25	"	"	"	"	"	
	22 45	87 56 03	147 35 94	8.0	187.0	2032	20	"	"	"	"	"	
	23 00	87 55 40	147 12 68	3.6	245	1951	"	"	"	"	"	"	
	23 15	87 55 02	146 37 92	8.8	312	1801	"	"	"	"	"	"	
	23 30	87 55 48	146 58 69	6.8	282	1405	20	"	"	"	"	"	
	23 45	87 54 67	145 38 43	5.0	130	1236	25	"	"	"	"	"	
	24 00	87 53 96	145 19 66	3.8	343	1207	45	"	"	"	"	"	
30.8	00 15	87 59 30	145 03 44	5.1	338.3	1780	30	"	"	"	"	"	Good reflectors, possible covering
	00 30	87 55 49	144 36 50	7.1	276.4	1756	40	"	"	"	"	"	
	00 45	87 55 86	144 01 24	4.8	267.3	1447	20	"	"	"	"	"	
31.8/1	01 00	87 55 52	143 22 26	5.7	269.3	1435	"	"	"	"	"	"	Best sailing station for
	01 15	87 55 78	142 56 06	9.4	3.0	1744	"	"	"	"	"	"	Abol "Beta" not for
	01 30	87 56 97	142 43 60	8.5	334.9	1753	"	"	"	"	"	"	"Asparagus impletocus"
	01 45	87 57 49	142 06 72	4.4	253.1	1472	30	"	"	"	"	"	
	02 00	87 57 38	141 35 43	5.5	286	1192	"	"	"	"	"	"	
	02 15	87 57 75	140 50 86	7.8	322.6	1213	30	"	"	"	"	"	
	02 30	87 57 59	140 04 68	6.3	244	1228	30	"	"	"	"	"	
	02 45	87 56 60	139 46 08	4.3	226	1240	30	"	"	"	"	"	
	03 00	87 55 39	139 21 62	5.6	143	1242	40	"	"	"	"	"	
	03 15	87 55 10	139 11 38	8.5	210	1237	30	"	"	"	"	"	
	03 30	87 55 01	138 35 31	7.1	301	1259	"	"	"	"	"	"	
	03 45	87 55 39	138 02 66	6.7	253	1281	"	"	"	"	"	"	
	04 00	87 55 43	137 35 67	7.1	324	1301	30	"	"	"	"	"	
	04 15	87 55 59.7	137 27 91	2.1	278	1306	"	"	"	"	"	"	
	04 30	87 55 68	137 23 83	1.0	28	1307	"	"	"	"	"	"	
	04 45	87 55 93	137 32 35	0.2	72	1306	"	"	"	"	"	"	



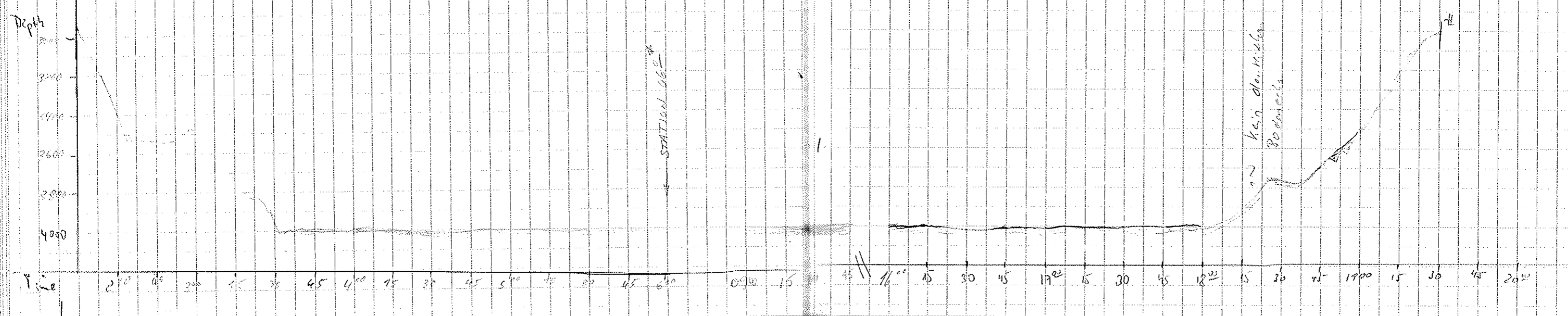
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comment
30.8.	05:00	87° 55.07	137° 15.47	4.5	214	1315	30						
	05:15	87° 53.71	136° 56.09	4.6	172	1320	-						
	05:30	87° 52.79	136° 27.09	4.1	205	1332	-						
	05:45	87° 51.40	136° 04.02	7.1	186	1315	-						
	06:00	87° 50.76' N	135° 37.26' E	6.2	288	1327	~40	5000	200	4	4	Morand	fairly good penetration - Had lynx reflectors - box was set.
	06:15	87° 50.09' N	135° 03.1' E	4.9	249	1340	>40	"	"	"	"	"	"
	06:20	87° 49.59' N	134° 24.1' E	4.6	236	1361	>40	"	"	"	"	"	"
	06:45	87° 49.75' N	134° 07.1' E	6.7	198.6	1364	~40	"	"	"	"	"	"
	07:00	87° 47.41' N	133° 35.1' E	5.5	267.2	1456	~10	"	"	4	4	"	starting to get off of the edge -
	07:15	87° 47.10' N	132° 59.1' E	7.4	273	1472	45	"	"	4	4	"	last oil subbottom reflector @ 0707
	07:30	87° 47.00' N	132° 19.1' E	4.0	281	2054	45	5000	"	"	"	"	last scatter reflector @ 0718
	07:45	87° 46.05' N	131° 37.1' E	9.3	269	2313	~10	5000	"	"	"	"	scatter reflector back @ 0730
	08:00	87° 46.30' N	131° 10.1' E	7.2	291	2330	20	5000	"	"	"	"	subbottom back @ 0742
	08:15	87° 45.39' N	130° 46.1' E	6.0	220	2630	N/A	"	"	"	"	"	last scatter reflector @ 0809
	08:30	87° 45.01' N	130° 21.1' E	8.8	274	2639	no scatter	"	"	"	"	"	scatter & subbottom back @ 0817/0825
	08:39	87° 44.95' N	129° 51.43	5.8	247	2675		"	"	"	"	"	* TURNING POINT OF GEOPHY'S SURVEY
	08:45	87° 44.51' N	129° 51.78	6.5	278	2681	Scattered bot	5000	200	4	4	MORAND	
	09:00	87° 45.67	130° 09.77	7	313.9	2834	20	"	"	"	"	"	Podrey
	09:15	87° 45.67	130° 08.00	2.0	99.8	2832	23	"	"	"	"	"	"
	09:30	87° 44.78	130° 08.24	3.8	229.9	2611	10	"	"	"	"	"	steep hill no record.
	09:45	87° 44.48	129° 36.76	6.4	288.2	2856	40	"	"	"	"	"	"
	10:00	87° 44.51' N	129° 33.5' E	1.6	113.7	2882	~30	5000	200	4	4	Nowaczyk	
	10:15	87° 44.38'	130° 04.7	4.6	112.6	2622	-	"	"	"	"	"	steep slope & astrine Diffractions hyperbolic
	10:30	87° 44.05' N	130° 33.5' E	4.1	175.6	2453	-	"	"	"	"	"	"
	10:45	87° 43.58' N	131° 08.2' E	7.0	82.5	2350	30	"	"	"	"	"	good penetration but bathymetry is not flat
	11:00	87° 44.78' N	131° 23.1' E	5.6	72.1	2449	50	"	"	4	4	"	"
	11:15	87° 44.22' N	131° 52.6' E	7.5	152.2	2258	50	"	"	"	"	"	"
	11:30	87° 43.36' N	132° 10.6' E	5.2	131.5	2302	50	"	"	"	"	"	"
	11:45	87° 42.68' N	132° 19.4' E	8.0	155.2	2406	50	"	"	4	4	"	good coring station
	12:00	87° 41.80' N	132° 35.1' E	8.3	143.2	2416	50	"	"	4	4	"	"
	12:15	87° 42.012' N	132° 44.919' E	9.0	37.3	2350	50	"	"	4	4	Kassens	steep slope
	12:33	87° 43.253' N	133° 16.568' E	5	100.4	2032	-	"	"	4	4	"	"
	12:45	87° 43.2' N	133° 40.07' E	5	186.6	1744	-	"	"	4	4	"	"
	13:00	87° 41.956' N	133° 50.768' E	7	108	1966	-	"	"	4	4	"	"
	13:15	87° 41.993' N	134° 27.64' E	6.3	90.1	1657	-	"	"	4	4	"	"
	13:31	87° 42.609' N	135° 01.949' E	6.1	86.6	1655	-	"	"	4	4	"	"
	13:45	87° 42.697' N	135° 33.628' E	4.4	81	1453	30	"	"	4	4	"	"
	14:00	87° 42.586' N	136° 10.871' E	3.9	83	1459	30	"	"	4	4	"	"



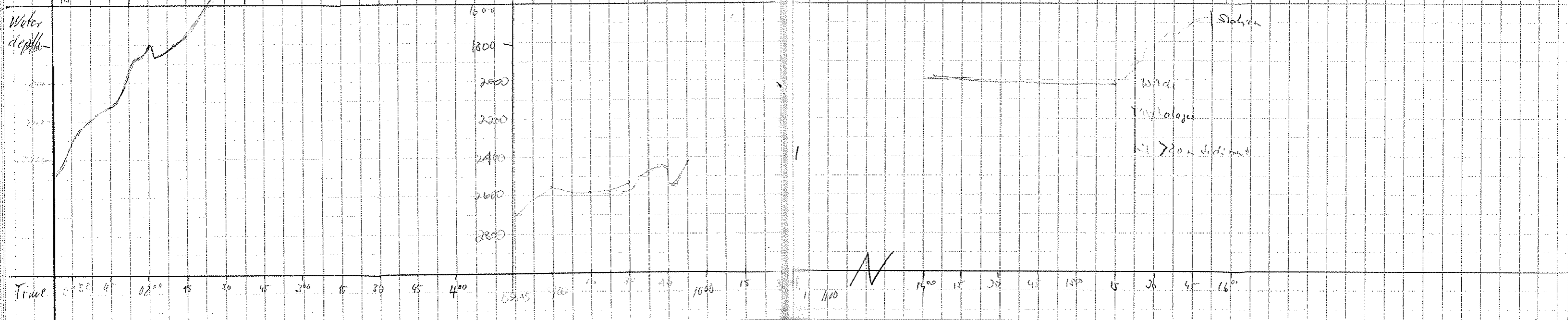
Date	Time	Lat. (N)	Long. (E)	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of pulses	Name	Comment
30.8	14:15	87° 43.04 N	136° 45.65 E	5.5	84	1360	-	5000	200	4	8	Wash	
"	30	87° 42.93	137° 14.17 E	7.6	98.7	1336	20	"	"	"	"	Sprellage	
"	14:45	87° 42.75	137° 48.08	8.8	68	1220	20	"	"	"	"	Bergström	
"	15:00	87° 43.82	138° 06.44	2.4	810	1222	40-50	"	"	"	"	Spidway	
"	15:15	87° 44.48	138° 03.51	3.3	313.6	1228	"	"	"	"	"	"	15 ²⁰ on Station
"	17:38	87° 45.07	138° 12.78	7.9	54.8	1227	30-40	"	"	"	4	"	Station board
"	17:45	87° 45.08	138° 20.21	4.6	117.0	1225	30-40	"	"	"	"	"	
"	18:00	87° 44.45	138° 51.03	6.5	94.9	1203	40	"	"	"	"	J. Reed	
"	18:15	87° 43.86	139° 26.66	5.3	121.4	1172	20	4000	200	4	4	"	
"	18:30	87° 43.08	139° 58.78	7.5	125	1153	40	"	"	"	"	"	
"	18:45	87° 42.37	140° 41.81	9.0	121	1134	"	"	"	"	"	"	
"	19:00	87° 41.75	141° 12.45	5.6	151	1123	"	"	"	"	"	"	
"	19:15	87° 40.85	141° 37.00	5.0	151	1113	"	"	"	"	"	"	
"	19:30	87° 40.20	142° 04.33	5.8	136	1107	"	"	"	"	"	"	
"	19:45	87° 39.74	142° 37.02	7.6	107	1100	"	"	"	"	"	"	
"	20:00	87° 49.36	143° 08.91	3.0	74.4	1077	"	"	"	"	"	"	
"	20:15	87° 39.81	143° 41.21	8.1	76.4	1073	"	"	"	"	"	"	
"	20:30	87° 39.58	145° 17.24	7.3	141.0	1056	30	"	"	"	"	T. Vance	Backup 20:35 ARK 817
"	21:00	87° 39.02	145° 31.42	9.5	90.5	1090	"	"	"	"	"	"	Ok Feb 2102
"	21:15	87° 38.80	145° 53.38	6.4	154.4	1192	"	"	"	"	"	"	
"	21:30	87° 37.90	146° 16.80	6.2	185.4	1260	"	"	"	"	"	"	
"	21:45	87° 37.07	146° 38.08	3.1	210.7	1251	20	"	"	"	"	"	
"	22:15	87° 36.43	146° 55.91	9.8	50.1	1255	"	"	"	"	"	GARD	
"	22:30	87° 37.17	147° 20.09	4.7	141.7	1385	"	"	"	"	"	"	
"	23:00	87° 35.73	147° 54.81	4.9	99.6	1670	"	"	"	"	"	"	
"	23:15	87° 36.09	148° 26.76	4.8	103.4	1870	"	"	"	"	"	"	
"	23:30	87° 35.65	148° 48.22	4.6	115.8	1954	"	"	"	"	"	"	
"	23:45	87° 35.76	149° 16.45	6.4	80.9	2210	"	"	"	"	"	"	
"	24:00	87° 35.57	149° 40.59	7.3	86.9	2405	30	"	"	"	"	"	
31.8	0:15	87° 35.29	150° 00.42	0.5	67.4	2440	-	"	"	"	"	"	0:13 Station Kanouch Fehler
"	0:30	87° 35.29	150° 05.98	3.1	129	2404	-	"	"	"	"	"	0:44 profiling
"	0:45	87° 35.14	150° 16.66	5.9	120.5	2379	-	"	"	"	"	"	
"	1:00	87° 34.68	150° 51.64	7.2	85.8	2454	-	"	"	"	"	"	
"	1:15	87° 34.68	151° 23.38	8.0	97.1	2541	-	"	"	"	"	"	
"	1:30	87° 34.70	151° 50.84	1.1	91.4	2667	20	"	"	"	"	"	
"	1:45	87° 34.21	152° 03.32	5.8	62.1	2954	"	"	"	5.5	6	Bergmann	



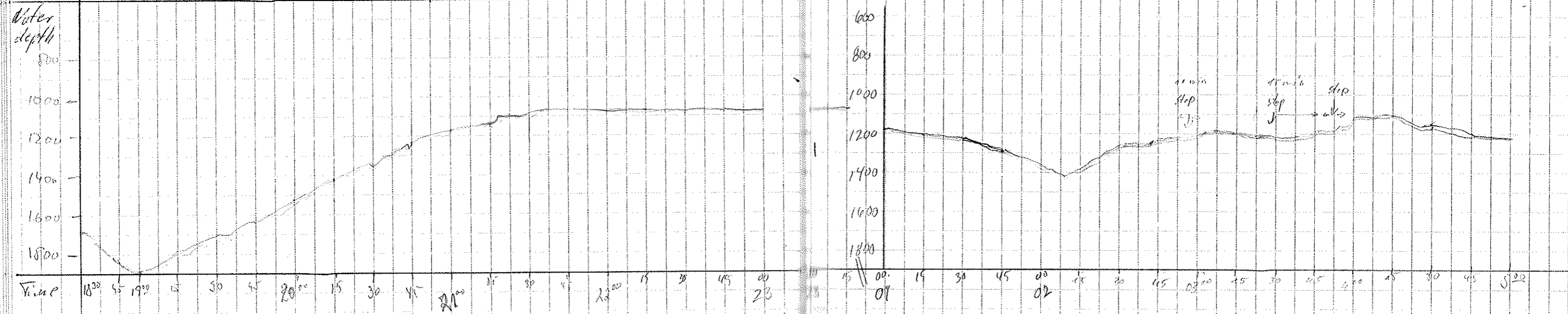
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of pulses	Name	Comment
31.8	02:30	87° 37.48	152° 13.90	6.2	43.1	3548	?	5000	200	4	4	Borghmann	RS: Subsea Wüstelife
	02:45	87° 37.75	152° 51.62	4.2	108.9	3505		"	"	"	"	"	"
	03:00	87° 37.25	153° 18.90	5.3	55.8	2471		"	"	55	6	"	Kei: Bodo-sjundida 47-77
	03:15	87° 37.22	153° 17.57	5.6	358.6	3735	20	"	"	4	"	"	"
	03:30	87° 38.60	153° 47.77	6.7	110.9	3957	"	"	"	"	"	"	"
	03:45	87° 38.72	154° 20.76	4.2	187.2	3999	"	"	"	"	"	"	"
	04:00	87° 39.50	154° 35.90	8.1	39.1	4004	30-110	"	"	"	"	"	"
	04:15	87° 39.56	155° 02.	9.3	87.7	4004	"	"	"	"	"	"	"
	04:30	87° 38.27	155° 20.52	9.1	133.6	4005	"	"	"	"	"	"	"
	04:45	87° 38.01	155° 40.38	6.2	154.6	4005	30-50	"	"	"	"	"	"
	05:00	87° 36.88	155° 57.03	4.9	149.9	4002	"	"	"	"	"	"	"
	05:15	87° 36.99	156° 36.76	7.8	108.8	4007	"	"	"	"	"	"	"
	05:30	87° 36.73	157° 10.44	2.1	116.9	4006	"	"	"	"	"	"	"
	05:45	87° 36.31	157° 31.46	5.5	57.4	"	"	"	"	"	"	"	"
	06:00	87° 35.67	158° 02.20	5.6	32.7	4006	"	"	"	"	"	"	"
	06:15	87° 35.57	158° 09.72	0.3	12.8	4006	450	"	"	"	"	MORAN	ON STATION
	07:00	87° 37.67	157° 57.84	3.9	248	4006	45m	"	"	"	"	MOSHER	UNDERWAY
	09:15	87° 37.54	157° 47.37	6.0	289.9	4006	45m	"	"	"	"	"	"
	09:30	87° 37.50	157° 20.64	7.0	305.5	4004	45m	"	"	"	"	"	"
	09:45	87° 38.01	156° 48.51	3.0	244.1	4008	45m	"	"	"	"	MOSHER	"
	10:00	87° 37.69N	156° 29.10E	3.2	225.2	4005	45m	"	"	55	8	MOSHER	COMING ON TO PC STATION
	10:15	87° 37.25 N	156° 37.9 E	0.2	343.6	4005	50m	5000	100	4	4	Newark	"
	10:25	87° 37.25 N	156° 38.6 E	0.3	7.8	4005	60m	5000	100	4	1	"	"
	14:30	87° 38.55	157° 16.03	0.6	47.2	4006	60m	"	"	Frequentest	"	Borghmann	15' 46" Station End
	16:00	87° 39.37	157° 25.87	0.6	46.9	4006	"	"	200	4	4	"	"
	16:15	87° 39.26	157° 10.86	7.5	250.1	4006	40-50m	"	"	"	"	"	"
	16:30	87° 39.22	157° 39.89	3.5	255.6	4011	40-50	"	"	"	"	"	"
	16:45	87° 39.14	158° 23.49	5.7	221.3	4005	"	"	"	"	"	"	"
	17:00	87° 38.38	158° 13.88	4.7	249.8	4006	"	"	"	"	"	"	"
	17:15	87° 37.56	155° 47.35	5.7	206.1	4005	50	"	"	"	"	"	"
	17:30	87° 36.47	155° 21.20	5.8	237.8	4002	"	"	"	"	"	"	"
	17:45	87° 36.01	155° 12.69	5.6	16.7	4000	"	"	"	"	"	"	"
	18:00	87° 36.21	154° 57.23	2.7	208.6	3999	40	"	"	"	"	"	"
	18:15	87° 36.26	154° 27.48	2.1	229	3985	30	"	"	"	"	"	"
	18:30	87° 35.81	154° 07.21	7.9	240	3903	"	"	"	"	6	"	"
	18:45	87° 35.38	153° 45.33	1.3	269	3604	"	"	"	"	"	"	"
	19:00	87° 35.85	153° 28.72	4.3	257	3489	"	"	"	"	"	"	"
	19:15	87° 36.16	153° 08.72	6.4	280	3152	"	"	"	"	"	"	"
	19:30	87° 35.72	152° 53.78	1.1	33	3065	"	"	"	"	"	"	"
	19:45	87° 35.73	152° 50.48	0.7	21.5	3095	"	"	"	"	"	"	"



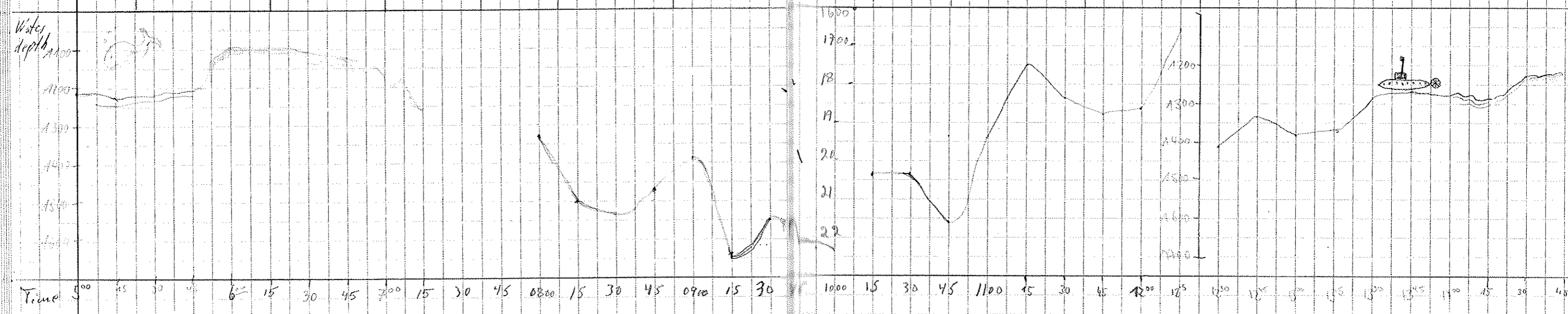
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
Aug 31	20 15	87° 35' 74"	153° 01'	0.4	77.3	3098	?	5000	200	4	6	T. Verren	On station, diffuse signal
"	20 32	87° 35' 71"	153° 03'	0.4	91.0	3116	?	"	"	"	"	"	"
"	20 46	87° 35' 74"	153° 05'	0.4	95.7	3131	?	"	"	"	"	"	"
"	21 03	87° 35' 74"	153° 08'	0.3	87.1	3145	?	"	"	"	"	"	"
"	21 19	87° 35' 77"	153° 10'	0.3	93.6	3175	?	"	"	"	"	"	"
"	21 34	87° 35' 83"	153° 12'	0.3	58.4	3190	?	"	"	"	"	"	"
"	21 45	87° 35' 74"	153° 13'	0.3	86.2	3212	?	"	"	"	"	"	"
"	22 00	87° 35' 74"	153° 15' 67"	0.3	099.7	3229	?	"	"	6	1	BRASS	ON STATION
"	22 15	87° 35' 73"	153° 17' 29"	0.3	067.1	3248	?	"	"	"	"	"	"
"	22 30	87° 35' 75"	153° 19' 36"	0.3	081.1	3278	?	"	"	"	"	"	"
"	22 45	87° 35' 75"	153° 20' 69"	0.2	358.5	3297	?	"	"	"	"	"	"
"	23 00	87° 35' 76"	153° 21' 79"	0.3	086.4	3309	?	"	"	"	"	"	"
"	23 15	87° 35' 80"	153° 22' 94"	0.2	053.0	3326	?	"	"	"	"	"	"
"	23 30	87° 35' 82"	153° 23' 70"	0.3	082.4	3334	?	"	"	"	"	"	"
"	23 45	87° 35' 84"	153° 24' 80"	0.2	039.1	3348	?	"	"	"	"	"	"
1 SEPT	24 00	87° 35' 87"	153° 25' 94"	0.2	073.4	3364	?	"	"	"	"	"	"
"	01 18	87° 36' 03"	152° 32' 73"	1.1	296.3	2977	?	"	"	"	7	Begin	4" 40m sound
"	01 30	87° 35' 81"	152° 27' 07"	1.1	277.2	2994	?	"	"	"	"	"	"
"	01 45	87° 36' 61"	152° 52' 31"	1.3	250.3	3122	?	"	"	"	6	"	"
"	02 00	87° 35' 65"	152° 16' 68"	1.3	286.8	2807	?	"	"	"	6	"	ARK 878
"	02 15	87° 35' 41"	151° 44' 24"	5.0	204.6	2777	bad signal	"	"	"	1	Scrub	Backup 02 25
"	03 00	87° 34' 25"	151° 03' 60"	0.4	46.6	2767	"	"	"	"	"	"	Station 02 50
"	03 15	87° 34' 35"	151° 07' 72"	0.3	57.4	2794	"	"	"	"	4	Begin	"
"	5 00	87° 37' 54"	151° 47' 28"	0.3	81.7	2880	40	"	"	5.5	1	BRASS	"
"	08 51	87° 34' 73"	151° 50' 08"	1.9	190.1	2691	40	5000	200	5.5	4	MOSHER	LEAVING STATION / UNDERWAY
"	09 00	87° 34' 36"	151° 36' 54"	2.8	134.6	2541	30 m	"	"	"	"	"	"
"	09 15	87° 34' 71"	151° 20' 63"	1.1	260.9	2587	Systemal 20 m	5000	200	5.5	1	"	"
"	09 30	87° 34' 70"	151° 03' 41"	2.7	288	2541	40 m system	5000	200	5.5	4	"	"
"	09 45	87° 35' 06"	150° 39' 48"	1.5	303	2517	20 m system	"	"	"	"	"	"
"	10 00	87° 35' 38"	150° 12' 31"E	5.8	262.1	2415	? (A)	5000	200	5.5	8	Nowaychik	Scattered signal
"	10 15	87° 35' 02" N	149° 33' 3"E	2.2	238.5	2291	? (B)	"	"	"	"	"	"
"	10 30	87° 34' 35" N	149° 17' 5"E	5.8	283.6	2241	? (C)	"	"	"	"	"	"
"	10 50	87° 35' 78" N	148° 46' 4"E	5.0	357.6	2016	? (D)	"	"	"	"	"	"
"	11 00	87° 36' 10" N	148° 44' 5"E	0.9	57.6	2006	? (E)	"	"	"	"	"	Station
"	11 32	87° 36' 43" N	148° 49' 7"E	0.3	118.4	2033	?	"	"	5.5	4	"	"
"	11 00	87° 36' 32" N	149° 03' 4"E	0.2	62.0	2023	?	"	"	"	"	"	Station
"	14 20	87° 36' 37" N	149° 06' 32"E	0.3	66.0	2032	40	5000	200	5.5	4	Thied	restriane Diffraction hyperion
"	15 15	87° 36' 42"	149° 08' 77"	1.5	233	2035	40	5000	200	5.5	4	"	"
"	15 30												
"	15 50	87° 36' 72"	148° 05' 40"	6.4	170	1638	20	"	"	"	"	"	sig #



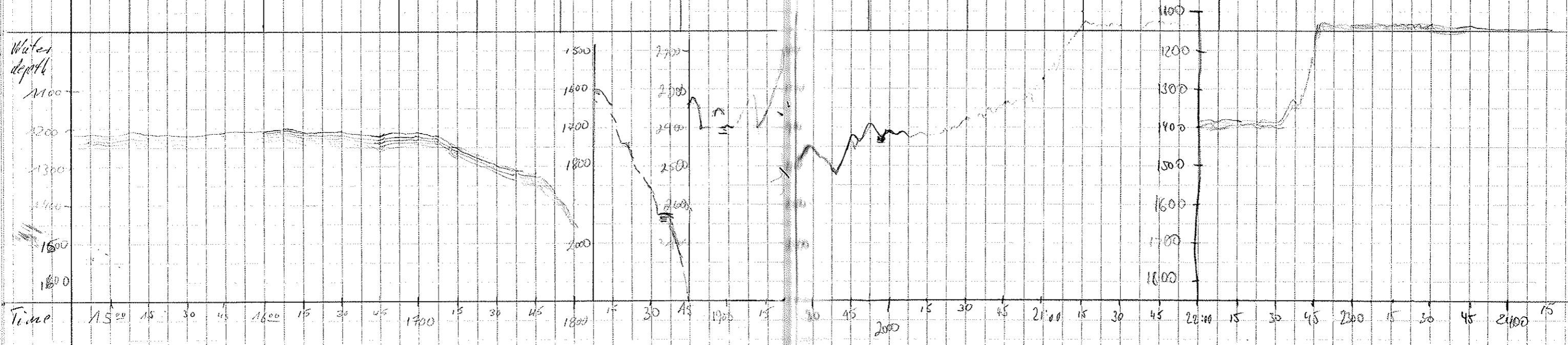
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Buoy	Scale	Frequency	# of Pulses	Misc	Comments
19.9.	18.32	87° 34' 56"	148° 17' 64"	4.4	166	16.75	20	5000	200	5.5	4	Triade	End of Station
	18.45	87° 36' 38"	148° 20' 36"	7.5	76	18.72	20	"	"	"	"	"	"
	19.50	87° 34' 55"	147° 10' 68"	.8	67	20.47	20	"	"	"	"	"	"
	19.15	87° 36' 68"	148° 34' 35"	7.7	263	17.81	20	"	"	"	"	"	"
	19.30	87° 36' 27"	148° 17' 89"	.2	144	17.12	"	"	"	"	"	"	"
	19.45	87° 35' 28"	148° 00' 52"	.9	224	16.87	"	"	"	"	"	"	"
	20.00	87° 34' 54"	147° 43' 33"	7.8	246	15.33	"	"	"	"	"	"	"
	20.15	87° 34' 77"	147° 20' 38"	5.1	342	14.23	"	"	"	"	"	T. Veron	"
	20.30	87° 34' 56"	147° 04' 49"	3.8	253	13.54	"	"	"	"	"	"	"
	20.46	87° 34' 01"	146° 36' 21"	5.4	272	12.52	20	"	"	"	"	"	"
	21.00	87° 34' 46"	146° 21' 75"	6.5	278	11.79	20	"	"	"	"	"	"
	21.10	87° 34' 14"	146° 02' 85"	4.6	277	11.46	20	"	"	"	"	"	"
	21.30	87° 33' 33"	145° 39' 81"	6.9	235	10.86	"	"	"	"	"	"	"
	21.45	87° 32' 54"	145° 18' 56"	1.5	281	10.98	30	"	"	"	"	"	"
	22.00	87° 32' 98"	144° 50' 68"	2.7	230	10.80	40	"	"	"	"	"	"
	22.15	87° 33' 04"	144° 30' 90"	3.7	240	10.79	40	"	"	"	"	BRASS	"
	22.30	87° 32' 73"	144° 10' 60"	3.8	269	10.76	40	"	"	"	"	"	"
	22.45	87° 31' 72"	144° 03' 30"	4.5	281	10.73	"	"	"	"	"	"	"
	23.00	87° 31' 30"	143° 40' 04"	5.1	253	10.77	30	"	"	"	"	"	"
	23.15	87° 30' 71"	143° 27' 22"	2.1	266	10.76	"	"	"	"	"	"	"
	23.30	87° 30' 70"	143° 29' 20"	-	-	10.70	"	"	"	"	"	"	ON STATION
	01.15	87° 31' 15"	143° 28' 53"	0.6	30.8	10.26	20-24	"	200	4	1	Barquon	"
3/9/91	16.46	87° 37' 25"	145° 36' 54"	0.4	39.1	10.93	20-30	"	150	Frequency test	4	BRASS	UNDERWAY AT 0100
	01.00	87° 31' 81"	146° 35' 58"	0.3	073	11.74	20-30	"	200	5.5	4	"	End of Station 0200
	01.15	87° 31' 60"	146° 50' 91"	6.1	078	12.11	30	"	"	"	"	"	Es wird Seemilch gefolgt
	01.30	87° 31' 82"	146° 59' 11"	0.6	045	12.30	30	"	"	"	"	"	"
	01.45	87° 32' 105"	147° 18' 97"	7.0	023	12.96	30	"	"	"	"	"	"
	02.00	87° 33' 15"	147° 26' 14"	4.4	357.7	13.34	20-30	"	"	4	6	Barquon	"
	02.15	87° 33' 22"	147° 08' 29"	8.2	225.0	12.52	"	"	"	"	"	"	"
	02.30	87° 35' 26"	146° 57' 06"	5.4	306.7	12.77	"	"	"	"	"	"	"
	02.45	87° 35' 25"	146° 36' 18"	5.2	279.0	12.25	"	"	"	"	"	"	"
	03.00	87° 35' 22"	146° 37' 86"	0.3	225.5	12.23	"	"	"	"	"	"	"
	03.15	87° 35' 44"	146° 22' 78"	"	"	"	"	"	"	"	"	"	"
	03.30	87° 35' 50"	146° 25' 15"	0.5	71.8	7.05	"	"	"	"	"	"	Steamer wurde eingeholt
	03.45	87° 35' 68"	146° 20' 11"	1.4	275.4	11.86	"	"	"	"	"	"	"
	04.00	87° 35' 58"	146° 05' 05"	2.5	241.5	11.06	"	"	"	"	"	"	"
	04.15	87° 36' 33"	146° 02' 24"	1.7	15.3	11.03	40	"	"	"	"	FREQUENZ	"
	04.30	87° 37' 31"	145° 55' 60"	7.0	331.0	11.79	20-30	"	"	"	"	"	"
	04.45	87° 38' 27"	145° 53' 46"	.7	61.8	12.00	"	"	"	"	"	"	"
	05.00	87° 38' 30"	145° 57' 20"	.5	86.1	12.12	20	"	"	5.5	8	"	Schiff abgeholt 10min



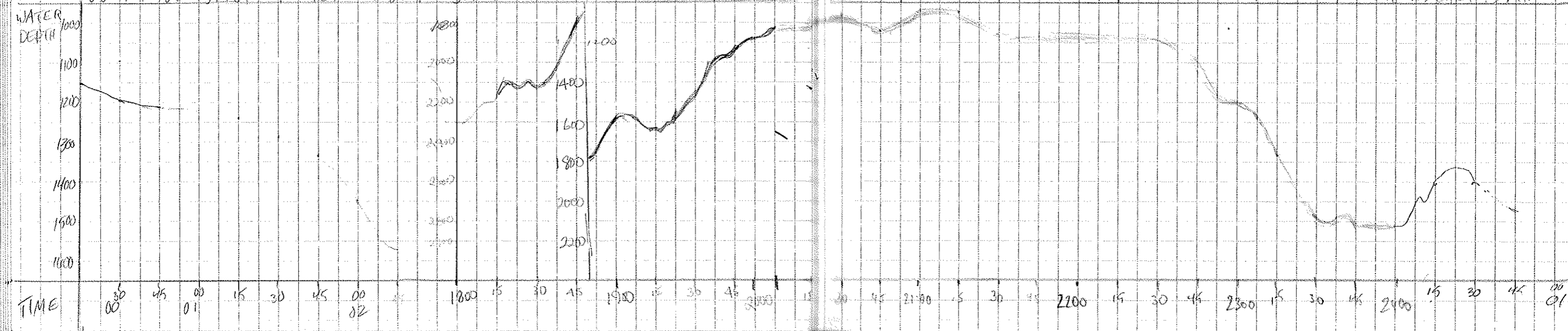
Date	Time	Latitude	Longitude	Speed	Course	Waterdepth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
3.9.91	5:25	87°38.30	146°00.50	1.8	17.0	1230	30	5000	200	4.5	4	REOLRICIS	
	5:30	87°39.36	146°02.62	5.4	7.8	1221	30	"	"	"	"	"	
	5:45	87°39.71	146°05.19	5.7	341.7	1205	30	"	"	"	"	"	
	6:00	87°40.80	145°55.31	4.5	358.5	1098	20-30	"	"	"	"	GARD	
	6:15	87°41.75	145°52.87	4.9	355.6	1098	"	"	"	"	"	"	
	6:30	87°42.54	145°48.30	2.8	335.8	2706	"	"	"	"	"	"	
	6:45	87°43.43	145°54.97	2.7	34.8	723	"	"	"	"	"	"	
	7:00	87°44.45	146°01.49	7.5	8.2	7834	"	"	"	"	"	"	~7'0, Disk full
	7:15	87°45.43	146°10.68			1310							Barhop ARK 819
	8:00	87°49.15	146°56.14	3.2	229.7	1334	"	"	"	"	"	Jodrey	
	8:15	87°49.61	146°12.61	.9	139.7	1500	"	"	"	"	"	"	
	8:30	87°49.99	146°17.74	.8	341.3	1534	"	"	"	"	"	"	
	8:45	87°50.39	146°12.64	5.1	10.3	1464	"	"	"	"	"	"	
	9:00	87°51.59	146°09.02	5.7	358.1	1396	"	"	"	"	"	"	
	9:15	87°52.49	146°12.70	1.6	151.4	1647	"	"	"	"	"	"	
	9:30	87°53.93	146°23.46	7.4	18.2	1550	"	"	"	"	"	"	
	9:38									5.5	6	"	
	9:45	87°54.52	146°20.20	4.8	349.5	1614	"	"	"	"	"	"	
	10:00	87°56.09	146°28.19	4.4	56.9	1631	"	"	"	"	"	"	
	10:15	87°57.02	146°51.69	.8	357.2	2047	50	"	"	"	"	"	
	10:30	87°57.62	146°53.31	3.6	57.2	2047	"	"	"	"	"	"	
	10:45	87°58.15	146°56.25	.9	154.9	2156	"	"	"	"	"	"	
	11:00	87°58.34	146°39.04	5.1	.9	1942	"	"	"	"	"	Schubert	10 bis von der
	11:15	87°58.80	146°16.22	7.8	344	1753	40	"	"	"	"	"	11 19 Belle J 7
	11:30	87°59.52	145°50.65	4.8	347	1837	"	"	"	"	"	"	
	11:45	87°59.63	145°51.04	3.7	152.0	1877	"	"	"	"	"	"	
	12:00	87°59.87	145°51.47	1.5	147.1	1863	"	"	"	"	"	Von der	
	12:15	88°00.43	145°47.89	3.0	318.0	1653	"	"	"	"	"	"	
	12:30	88°00.62	145°28.89	5.3	271.3	1408	"	"	"	"	"	"	
	12:45	88°01.10	145°14.24	1.1	325.8	1342	"	"	"	"	"	"	
	13:00	88°01.20	145°20.44	4.4	139.	1385	"	"	"	"	"	"	
	13:20	88°02.23	145°10.11	4.8	297.0	1371	"	"	"	"	"	"	
	13:30	88°02.65	145°57.16	5.8	337.2	1293	"	"	"	"	"	"	
	13:45	88°03.62	145°02.58	6.7	36.5	1260	"	"	"	"	"	"	
	14:00	88°04.67'N	145°13.7'E	0.6	63.3	1255	40	5000	200	5.5	4	Novorok	air gun zu Wasser
	14:30	88°04.60'N	145°32.8'E	4.5	345.5	1319	40	"	"	"	"	"	
	14:45	88°05.40'N	145°07.5'W	4.1	347.6	1231	40	"	"	"	"	"	



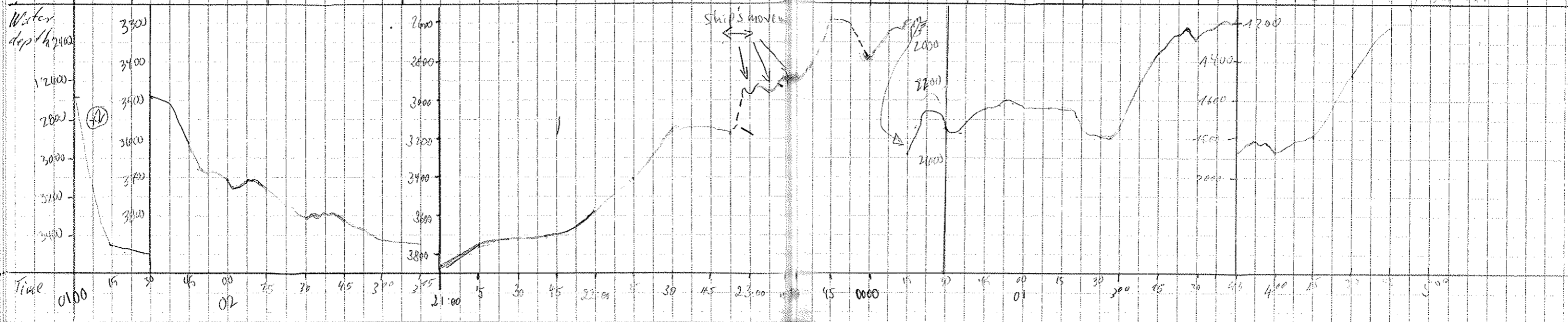
Date	Time	Lat. True	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
3.9.91	15 ⁰⁵	88° 06.81' N	144° 52.7' E	1.5	16.5	1212	40m	5000	200	4	4	NORAD	
	15 ¹⁵	88° 07.58' N	144° 44.1' E	3.6	283.4	1213	40m	"	"	"	"	"	
	15 ³⁰	88° 08.53' N	144° 28.5' E	5.7	45.4	1215	50m	"	"	"	"	"	
	15 ⁴⁵	88° 09.68' N	144° 15.4' E	0.7	330.9	1213	40m	"	"	"	"	"	
	16 ⁰⁰	88° 09.82' N	144° 12.8' E	1.7	356.8	1210	40m	5000	200	3.5	4	NORAD	
	16 ¹⁵	88° 10.1' N	144° 12.9' E	3.2	336.6	1218	40m	"	"	"	"	"	
	16 ³⁰	88° 11.0' N	144° 03.7' E	3.7	146.8	1208	44	"	"	"	"	"	
	16 ⁴⁵	88° 12.1' N	143° 55.2' E	4.2	346.1	1223	44	"	"	"	"	"	
	17 ⁰⁰	88° 12.6' N	143° 26.3' E	3.9	289.5	1213	40	"	"	"	"	"	
	17 ¹⁵	88° 13.1' N	142° 51.5' E	6.1	201.5	1247	40	"	"	"	"	"	
	17 ³⁰	88° 13.1' N	142° 20.8' E	4.2	228.7	1293	40	"	"	"	"	"	
	17 ⁴⁵	88° 14.6' N	141° 36.5' E	6.1	344.7	1322	40m	"	"	"	"	"	
	18 ⁰⁰	88° 15.6' N	141° 13.2' E	6.0	319.1	1450	25	"	"	"	"	"	
	18 ¹⁵	88° 16.29' N	140° 43.85	7.4	331.9	1630?	no record	"	"	"	"	"	
	18 ³⁰	88° 17.52' N	140° 40.83	1.4	284.3	1858	Scattered	"	"	"	"	"	
	18 ⁴⁵	88° 18.49' N	140° 53.21' E	0.5	259.7	2326	?	"	"	"	"	"	Scattered return with hypotube
	19 ⁰⁰	88° 19.25' N	141° 08.4' E	2.9	39.4	2401	Scattered	"	"	"	"	"	side of track
	19 ¹⁵	88° 20.21' N	140° 52.42	9.7	294.6	2354.8	10m scattered	"	"	"	"	"	
	19 ³⁰	88° 21.56' N	140° 32.04	5.7	312.0	2009	20m scattered	"	"	"	"	"	
	19 ⁴⁵	88° 22.82' N	140° 09.10	4.8	342.7	1979	Scattered	"	"	"	"	"	
	20 ⁰⁰	88° 23.10	139° 45.02	5.9	314.0	1961	5-10m	"	"	"	"	"	
	20 ¹⁵	88° 23.24	139° 50.01	4.1	166.5	1957	10-15m	"	"	4	6	Basman	
	20 ³⁰	88° 23.206	139° 51.01	6.2	352	1979	10	"	"	5.5	6	Kasans	
	20 ⁴⁵	88° 23.793	139° 48.02	5.1	339	1861	20	"	"	"	"	"	
	21 ⁰⁰	88° 24.852	139° 15.582E	5.1	324	1782	10	"	"	"	"	"	
	21 ¹⁵	88° 25.334 N	138° 35.411 E	10.9	285	1643	10	"	"	"	"	"	
	21 ³⁰	88° 25.196 "	137° 48.856 E	4.9	329	1343	20	"	"	"	"	"	
	21 ⁴⁵	88° 26.706 "	137° 26.68 E	6.9	348	1367	✓	"	"	"	"	"	
	22 ⁰⁰	88° 26.248 M	137° 25.92 E	0.5	7	1358	10	"	"	"	"	"	
	15	88° 26.803 N	137° 22.298 E	2.1	59	1362	20	"	"	"	"	"	
	30	88° 26.76 N	137° 30.12 E	4	43.7	1387	10	"	"	"	"	"	Spilling
	45	88° 27.11 N	137° 36.23 E	2.5	165.3	1393	10	"	"	"	"	"	
	23 ⁰⁰	88° 28.04 N	137° 06.22 E	7.2	308.4	1721	1	"	"	"	"	"	20m of scattered sed.
	15	88° 28.41 N	136° 50.47 E	3.1	323.4	1148	1	"	"	"	"	"	
	34	88° 28.62 N	136° 51.17 E	4.3	121.7	1145	1	"	"	"	"	"	
	45	88° 28.84 N	136° 53.25 E	1.3	107	1139	1	"	"	"	"	"	
	24 ⁰⁰	88° 28.89 N	136° 57.59 E	1.9	323	1139	1	"	"	"	"	"	
4/9/91	00 ¹⁵	88° 28.965 N	137° 03.47 E	1.0	81.0	1148	1	"	"	"	"	"	
	00 ³⁰	88° 29.26	137° 04.58	1.3	137	1149	20	"	"	"	"	"	BRASS



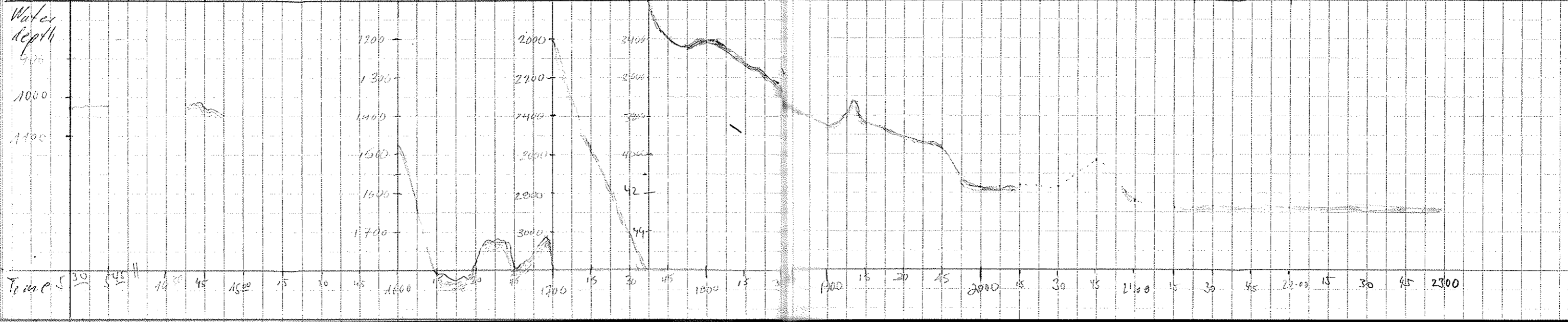
DATE	TIME	LATITUDE	LONGITUDE	SPEED	COURSE	WATER DEPTH	PENETRATION	RANGE	SCALE	FREQUENCY	# OF PULSES	NAME	COMMENTS
4/9/91	00 30	88° 29' 39	137° 08' 50	0.6	044	1194	20 m	5000	200	4	6	BRASS	
	00 45	88° 29' 48	137° 14' 37	0.9	032	1214	25 m	"	"	"	"	"	
	01 00	88° 29' 62	137° 20' 91	1.1	022	1224	"	"	"	"	"	"	
	01 15	88° 29' 77	137° 25' 45	1.2	013	1242	"	"	"	"	"	"	
	01 30	88° 29' 73	137° 33' 93	2.6	128	1270	20 m	"	"	"	"	"	
	01 45	88° 29' 67	137° 49' 36	0.5	035	1337	"	"	"	"	"	"	
	02 00	88° 29' 50	138° 13' 91	0.9	332.0	1447	"	"	"	"	"	Bequaine	2 nd on station
	02 30	88° 29' 73	138° 26' 27	0.8	60.3	1522	10 m	"	"	"	4	"	
	03 00	88° 28' 92	138° 38' 49	0.8	61.8	1532	20 m	"	"	"	"	"	
	8 20	88° 30' 81' N	140° 19.0' E	0.3	77.7	2001	?	"	"	"	4	"	Newark
	17 55	88° 32' 07' N	141° 51' 04' E	0.4	99.1	2412	20 m	5000	200	4	4	MOSHER	LEAVING STATION
	18 50	88° 31' 52' N	141° 34' 34' E	0.5	137.1	2305	20 m	"	"	"	"	"	
	18 15	88° 31' 59	141° 09' 45	5.8	323.2	2249	Scattered	"	"	"	"	"	
	18 30	88° 31' 85' N	140° 57' 17	4.3	316.6	2038	10 m	"	"	"	6	"	
	18 45	88° 31' 33	139° 54' 57	3.1	274.9	1791	10 m	"	"	"	"	"	
	19 00	88° 32' 34	139° 17	.8	200	1585	5-10 m	"	"	"	"	"	
	19 15	88° 31' 61	139° 18' 27	4.7	171	1633	5-10	"	"	"	"	"	
	19 30	88° 31' 27	138° 27' 83	6.2	255	1447	5-10	"	"	"	"	"	
	19 45	88° 31' 48	137° 41' 56	6.6	264	1216	10-15	"	"	"	"	"	
	20 00	88° 31' 58	137° 19' 64	4.8	341.5	1187	10-15	"	"	"	"	"	
	20 15	88° 31' 90	132° 08' 47	4.1	272	1110	40	"	"	"	"	"	
	20 30	88° 31' 94	136° 58' 76	3.2	328	1090	20	"	"	5	6	"	
	20 33	88° 31' 05	136° 11' 89	7.2	316	1097	20	"	"	"	"	"	
	20 45	88° 31' 18	135° 37' 1	6.9	308	1131	10	"	"	"	"	"	
	21 00	88° 34' 09	135° 54' 30	5.4	240	1035	20	"	"	"	"	"	
	21 15	88° 34' 49	135° 54' 56	0.9	336	1048	30	"	"	"	"	"	
	21 32	88° 35' 02	135° 28' 82	7.5	1.1	1147	20	"	"	"	"	"	
	21 45	88° 35' 31	135° 16' 13	3.6	39	1178	70	"	"	"	"	"	
	22 00	88° 35' 82	134° 48' 26			1232							
	15	88° 35' 68	134° 16' 96	2.9	173	1283							
	30	88° 35' 29	133° 48' 46	4.6	308								Spillage
	45	88° 35' 90	133° 12' 78	3.7	357	1315							
	23 00	88° 36' 77	132° 57' 97	4.8	90	1496	20-40						
	16	88° 37' 49	132° 39' 66	5.1	327	1777	"						
	32	88° 38' 43	131° 58' 37	8.2	345	2073	20			5.5			
	45	88° 38' 51	131° 25' 01	1.8	295	2118	"						
5/9/91	00 00	88° 38' 21	131° 08' 76	1.8	70	2127	20-40						
	00 15	88° 37' 51	130° 33' 76	6.9	218	1909	7						BRASS VERY ROUGH TOPOGRAPHY
	00 30	88° 37' 10	129° 37' 09	4.9	295	1911	7						
	00 45	88° 37' 14	129° 00' 810	3.7	296	2060	10						POOR RECORD LAST 15 MINS



Date	Time	Lat	Long	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
5/9/91	01:00	88° 38.78	128° 32.10	4.5	299	2690	?	5000	200	15.5	6	BRASS	VERY POOR RECORD
	01:15	88° 39.32	127° 50'	5.5	276	3453	?	"	"	"	"	"	"
	01:30	88° 39.53	127° 36.60	0.9	320	3494	20-30	"	"	"	"	"	BACK ON FLAT BOTTOM
	01:45	88° 40.22	127° 02.75	6.5	352	3605	20-30	"	"	"	"	"	BOTTOM FALLING
	02:00	88° 41.29	126° 54.74	6.2	282.6	2777	20-30	"	"	"	"	Barquana	
	02:15	88° 41.03	126° 45.86	4.6	9.0	3730	20-30	"	"	"	"	"	
	02:30	88° 41.84	126° 21.58	0.9	7.3	2000	20	"	"	"	"	"	
	02:45	88° 42.82	126° 30.37	5.2	349.5	3813	20	"	"	"	"	"	
	03:00	88° 43.40	126° 42.98	0.9	345.5	3871	20-30	"	"	"	"	"	
	03:15	88° 43.56	126° 45.06	0.3	38.7	3878	15-25	"	"	"	"	"	Station 0370
	12:52	88° 44.75	126° 51.67	0.2	6.2	3875	15-30	"	"	Frequency lost	"	"	Station recorded 250
	20:50	88° 45.69	127° 50.35	3.7	67.7	3887	15-30	"	"	5.5	6	Kassas	
	21:15	88° 45.087	128° 51.608	2.5	96	3761	30	"	"	"	"	Kassas	
	21:31	88° 44.96	129° 05.185E	4.3	104	3732	30	"	"	"	"	"	
	21:40	88° 44.84 N	129° 30.31 E	5.1	47.8	3706	30	"	"	"	"	"	
	21:45	88° 44.99 N	129° 43.55	4.1	68.7	3692	30	"	"	"	"	"	
	22:00	88° 45.20 N	130° 26.83	6.4	78.3	3573		"	"	"	"	"	
	22:15	88° 44.90	131° 05.04	6.2	133	3404		"	"	"	"	Spiegel	VERY POOR RECORD
	22:30	88° 45.06	131° 42.67	1.6	129	3198	20	"	"	"	"	"	"
	22:45	88° 44.96	131° 31.32	1.0	57.	3182	20(40)	"	"	"	"	"	"
	23:00	88° 44.99	132° 08.62	3.9	52.4	2975	20(40)	"	"	"	"	"	Very poor record
	15	88° 45.19	132° 15.10	6.1	78.4	2903	20	"	"	"	"	"	Ship moving back + forth
	30	88° 45.24	132° 26.67	2.2	105	2876	20	"	"	"	"	"	Very poor record
	45	88° 44.78	132° 59.80	7	89	2595	"	"	"	"	"	"	"
16.03.91	00:00	88° 45.12	133° 27.05	4.7	39	2768		"	"	"	"	"	"
	00:15	88° 45.48	134° 02.21	9.0	015	2589	20	"	"	"	"	"	"
	00:30	88° 46.76	134° 36.31	4.7	104	2461	20	"	"	"	"	BRASS	"
	00:45	88° 46.57	135° 17.64	4.9	696	2335	?	"	"	"	"	"	"
	01:00	88° 46.14	135° 29.75	0.3	347	2327	20	"	"	"	"	"	"
	01:15	88° 46.53	135° 57.97	2.4	046	2341	30	"	"	"	"	"	"
	01:30	88° 47.10	136° 39.61	0.3	242	2491	30	"	"	"	"	"	Station out 26
	02:00	88° 47.48	135° 56.56	0.7	47.8	2505	30	"	"	"	"	"	Frequency lost 20130
	02:55	88° 47.63	136° 17.55	2.5	80.2	2533	20	"	"	5.5	6	Barquana	Station out 26
	03:15	88° 48.20	137° 12.85	3.9	55.0	2049	?	"	"	"	"	"	"
	03:30	88° 48.04	137° 56.22	3.4	77.7	1883	?	"	"	"	"	"	"
	03:45	88° 48.16	138° 47.10	4.6	71.6	1878	15-20	"	"	"	"	"	"
	04:00	88° 48.55	139° 33.14	5.7	338.6	1561	15-20	"	"	"	"	"	"
	4:15	88° 48.77	140° 08.81	4.8	163.1	1796	?	"	"	"	"	FREDERICKS	"
	4:30	88° 48.13	140° 34.77	.5	703.0	1988	?	"	"	"	"	"	"
	4:45	88° 48.12	141° 25.05	7.7	42.6	1234	20	"	"	"	"	"	Bandwidth limited 5 ³



Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
6.9	5:30	88°47.86	143°06.36	2.6	103.5	1038	30	5000	200	5.5	6	FRIEDLICH	
	5:45	88°47.03	144°21.13	2.9	114.0	1025	30	"	"	"	"	"	
	5:50	88°46.87	144°28.03	4	113.6	1034	20	"	"	4	4	"	On Station
	11:00	88°47.69	143°55.0		61.8	1034	30	"	"	"	"	"	On Station
	12:58	88°47.82	143°05.84	0.8	52.8	1022	30	"	"	Frequency	"	"	Basin
	14:45	88°48.75	145°11.50	7.7	329.1	4030	10	"	"	4	6	"	1937 Station located
	15:00	88°50.31N	144°26.2'E	7.4	348.7	1046	40 m	5000	200	4	4	MORAN	heading for the South Pole
	15:15	88°51.54N	144°18.3'E	2.9	111.0	1074	45 m	5000	200	4	4	"	Oden ahead
	15:31	88°52.44N	144°12.0'E	3.8	320.6	1105	40	"	"	"	"	"	Must be AS 1535 / Eisberg station
	15:45	88°53.38N	143°49.6'E	7.0	16.1	1205	(40m)	"	"	4	4	"	"
	16:00	88°54.03N	143°46.1'E	2.5	354.4	1474	?	"	"	5.5	8	"	"
	16:12	88°54.42	143°18.45E	0.5	132.4	1814	~20	5000	200	5.5	8	MORAN	new heading to the North Pole
	16:20	88°55.6N	143°05.2E	3.3	35.9	1771	~40	"	"	5.5	8	"	changed freq to 4 and
	16:45	88°56.7N	143°04.8E	4.5	34.1	1799	40+	"	"	4	4	"	# of pulses to 4 @ 1634
	17:00	88°58.1N	142°46.1E	7.0	7.8	1991	N/A	"	"	5.5	8	"	turned storage on @
	17:15	88°59.4N	142°36.8E	5.8	350.0	2540	N/A	"	"	"	"	"	turned storage off @ 1712
	17:30	89°00.9N	142°07.7E	8.6	12.5	3004	~10	"	"	"	"	"	3000
	17:45	89°02.6N	142°40.5E	4.8	357.6	3396	~40	"	"	"	"	"	"
	18:00	89°03.82	142°37.70E	2.8	353.9	3393	~40 m	"	"	"	"	"	STORAGE ON
	18:06	89°04.31	142°40.48	3.6	332.0	3422	~40 m	"	"	4	4	"	CHANGED FREQ # pulses
	18:15	89°04.60	142°25.73	3.9	314.7	3519	Scattered 20-30m	"	"	"	"	"	"
	18:30	89°05.42	142°10.55E	6.0	21.6	3685	noisy scattered	"	"	"	"	"	"
	18:47	89°06.75	142°32.13	3.4	358.0	3785	35-20m	"	"	"	"	"	"
	19:00	89°07.13	143°23.4	4.7	41.9	3847	noisy > 10	"	"	"	"	"	"
	19:15	89°08.0	143°57.0	2.8	357.3	3821	~28	"	"	"	"	"	reduced gain
	19:30	89°08.4	144°05.9	6.6	334.1	3904	~30	"	"	11	"	"	"
	19:45	89°09.2	143°27.2	3.3	332.0	3997	~10	"	"	5	4	"	"
	20:00	89°09.84	143°17.04	6.6	353	4167	~40	"	"	"	"	"	"
	20:15	89°10.66	143°07.06	0.5	358	4177	~10	"	"	"	"	"	"
	20:30	89°11.196	142°50.48	4	19	4176	0	"	"	"	"	"	"
	20:45	89°11.41	143°14.21	5	277	4020	~15	"	"	"	6	"	"
	21:00	89°12.19	142°32.97	4.3	309	4274	~20	"	"	5.5	4	"	"
	21:15	89°13.15	141°30.77	4	14	4259	~20	"	"	"	"	"	"
	21:24	89°14.57	141°16.86	8	313	4265	40	"	"	4	8	"	"
	21:30	89°15.34	141°01.06	10.9	1.3	4259	30	"	"	"	"	"	"
	21:43	89°17.04	139°58.24	2.5	0	4269	40	"	"	"	"	"	"
	22:00	89°18.03	140°11.51	2.2	16.3	4268	40	"	"	"	"	"	"
	22:18	89°19.33	140°12.86	5.6	350	4270	4	"	"	"	"	"	"
	22:30	89°19.94	140°05.93	1.7	31	4271	5	"	"	"	"	"	"
	22:43	89°20.68	140°03.92	4.3	4.3	4274	"	"	"	"	"	"	"



Date	Time	Lat	Long	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
0609	2300	89° 02' 50" N	140° 50' 81" E	5.0	355.7	4252	30	5000	200	4	4	Spelhof	
	15	89° 02' 38" N	141° 31' 66" E	7.0	35.5	4270	"	"	"	"	"	"	
	30	89° 23' 53	142° 19' 50	.7	60.2	4270	"	"	"	"	"	"	
	45	89° 23' 60	142° 15' 14	6.7	35.6	4271	"	"	"	"	"	"	
	24 ⁰⁰	89° 24' 46	143° 07' 92	5.3	022	4309	"	"	"	"	"	BRASS	
0709	00 ¹⁵	89° 25' 49	143° 02' 25	1.7	325	4310	"	"	"	"	"	"	
	00 ³⁰	89° 27' 13	142° 21' 34	5.4	620	4304	"	"	"	"	"	"	
	00 ⁴⁵	89° 28' 00	142° 32' 19	4.9	353	4303	"	"	"	"	"	"	
	01 ⁰⁰	89° 29' 05	142° 44' 58	3.6	016	4299	"	"	"	"	"	"	
	01 ¹⁵	89° 29' 82	142° 32' 66	9.1	317	4297	30-40	"	"	"	"	"	
	01 ³⁰	89° 30' 87	142° 48' 72	3.2	029	4295	"	"	"	"	"	"	
	01 ⁴⁵	89° 31' 85	143° 14' 00	0.9	002	4290	"	"	"	"	"	"	
	02 ⁰⁰	89° 32' 30	143° 33' 37	1.3	305.0	4292	"	"	"	"	"	"	
	02 ¹⁵	89° 33' 02	142° 42' 40	5.7	29.7	4292	"	"	"	"	"	"	
	02 ³⁰	89° 33' 29	142° 03' 44	7.7	352.8	4295	"	"	"	"	"	"	
	02 ⁴⁵	89° 34' 38	142° 42' 72	3.6	5.0	4295	"	"	"	"	"	"	
	03 ⁰⁰	89° 35' 32	142° 20' 47	8.0	46.3	4290	"	"	"	"	"	"	
	03 ¹⁵	89° 37' 13	143° 05' 27	2.0	6.7	4290	"	"	"	"	"	"	
	03 ³⁰	89° 37' 68	144° 32' 38	1.4	56.9	4289	"	"	"	"	"	"	
	03 ⁴⁵	89° 38' 30	145° 29' 56	1.8	23.0	4289	"	"	"	"	"	"	
	4 ⁰⁰	89° 39' 08	146° 01' 60	5.1	5.0	4291	"	"	"	"	"	"	
	4 ¹⁵	89° 40' 15	146° 41' 59	3.8	351.2	4292	"	"	"	"	"	"	
	4 ³⁰	89° 41' 20	148° 33' 80	3.3	86.6	4291	"	"	"	"	"	"	
	4 ⁴⁵	89° 41' 49	149° 57' 84	5.9	10.4	4293	"	"	"	"	"	"	
	5 ⁰⁰	89° 42' 38	149° 55' 96	4.3	309.2	4289	"	"	"	"	"	"	
	5 ¹⁵	89° 43' 60	150° 17' 13	9.5	38.9	4285	"	"	"	"	"	"	
	5 ³⁰	89° 44' 67	153° 35' 66	2.5	38.1	4283	"	"	"	"	"	"	
	5 ⁴⁵	89° 45' 71	156° 41' 21	5.6	71.4	4278	"	"	"	"	"	"	
	6 ⁰⁰	89° 46' 72	158° 57' 72	3.7	8.7	4280	"	"	"	"	"	"	
	6 ¹⁵	89° 47' 73	160° 01' 98	3.7	21.7	4278	"	"	"	"	"	"	
	6 ³⁰	89° 48' 90	160° 37' 46	7.0	358.7	4273	"	"	"	"	"	"	
	6 ⁴⁵	89° 49' 89	160° 09' 48	2.3	323.5	4275	"	"	"	"	"	"	
	7 ⁰⁰	89° 50' 67	160° 09' 15	4.0	349.4	4276	"	"	"	"	"	"	
	7 ¹⁵	89° 51' 39	160° 54' 27	3.4	53.0	4273	"	"	"	"	"	"	
	7 ³⁰	89° 52' 20	163° 11' 54	5.0	346.5	4273	"	"	"	"	"	"	
	7 ⁴⁵	89° 53' 14	164° 56' 78	0.8	95.5	4272	"	"	"	"	"	"	
	8 ⁰⁰	89° 54' 01	167° 17' 80	2.5	345.2	4269	20	"	"	"	"	"	
	8 ¹⁵	89° 55' 18	164' 33' 58	3.4	18	4268	"	"	"	"	"	"	
	8 ³⁰	89° 55' 25	166° 33' 69	3.2	9.0	4269	"	"	"	"	"	"	
	8 ⁴⁵	89° 56' 53	174° 49' 10	4.0	355.3	4268	"	"	"	"	"	"	

BRASS

FREDARIS

GARD

Tubey

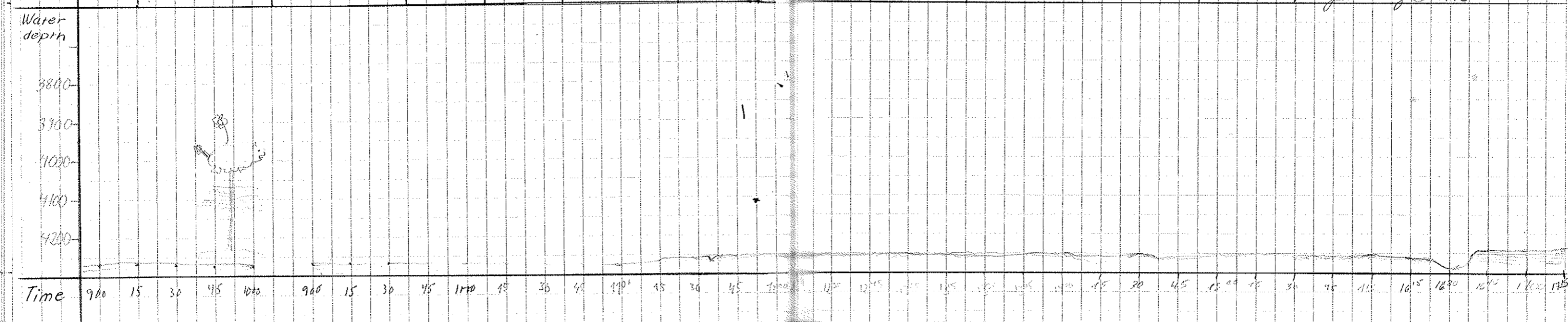
Hunting for the pole

Water depth

3400
3600
3800
4000
4200

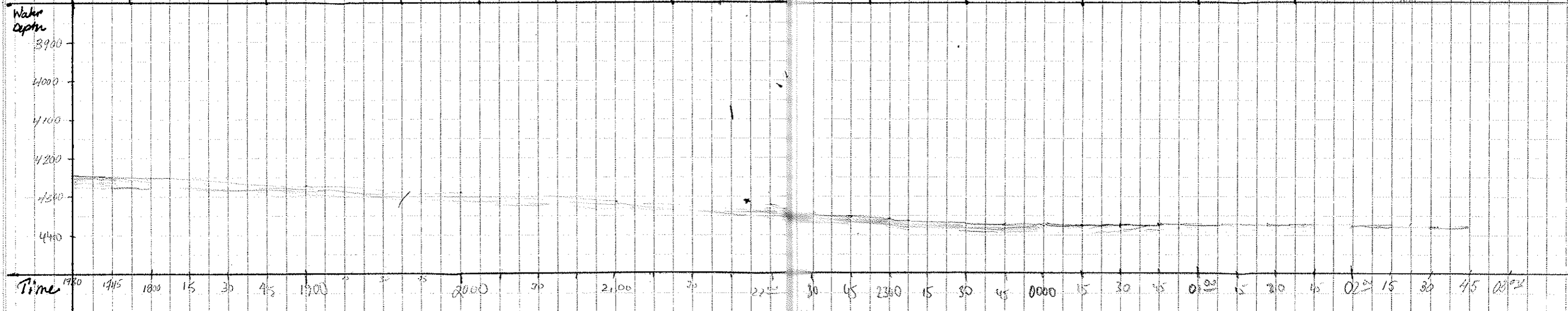
Time 2300 25 30 35 40 45 0000 15 30 45 0100 15 30 45 0200 45 30 45 0300 15 30 45 0400 15 30 45 0500 15 30 45 0600 15 30 45 0700 15 30 45 0800 15 30 45

Date	Time	Latitude	Longitude	Speed	Course	Water Depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
	0900	89° 57.21	179° 03.42	4.1	358.2	4271	20	5000	200	4	4	Jodrey	
	0915	89° 58.10	179° 50.85	1.9	11.7	4271	20	"	"	"	"	"	
	0930	89° 58.58	175° 36.62	7.2	35.7	4272	20	"	"	"	"	"	
	0945	89° 59.49	150° 07.68	5.0	9.6	4275	18	"	"	"	"	"	Backup ARK 820
	1000	90° 00.164 N!	38° 24. E	0.8	55.1	4276	15	5000	100	4	1	NW	Stakida
	1030	90° 00.59 N!	122° 48.02	0.9	76.6	4279	20	"	"	Frequency lost	4	Baguam	
8.9.91	1045	89° 56.31 N	85° 08.4 W	0.2	235.0	4263	25	5000	200	4	4	NW	Wir ziehen weiter
	915	89° 56.47	84° 20.56	0.3	61.9	4264	20	"	"	"	"	Jodrey	
	930	89° 56.36	82° 33.10	0.7	14.3	4264	20	"	"	"	"	"	
	945	89° 56.32	81° 31.99	1.0	84.0	4264	20	"	"	"	"	"	Leaving The pole
	1000	89° 56.29	67° 47.90	7.8	132.8	4264	25	"	"	"	"	"	
	1015	89° 55.27	51° 28.00	7.0	106.4	4264	20	"	"	"	"	Schubert	
	1030	89° 54.40 N	51° 52.3 W	7.1	165.4	4267	20	"	"	"	"	"	
	1045	89° 53.383	49° 01.09 W	5.7	158.5	4263	25	"	"	"	"	"	
	1100	89° 51.029	40° 36.61 W	1.9	139.6	4265	25	"	"	"	"	"	
	1115	89° 51.12	40° 33.20 W	3.0	139	4258	20	"	"	"	"	"	
	1130	89° 49.83	40° 26.71 W	1.6	180.4	4259	18	"	"	"	"	"	
	1145	89° 48.85	40° 01.91 W	3.6	159.3	4251	25	"	"	"	"	"	
	1200	89° 47.95	48° 24.64	2.0	96.8	4252	"	"	"	"	"	Kroeger	
	1215	89° 46.91	48° 01.12	5.9	117.9	4253	"	"	"	"	"	"	
	1230	89° 45.974	49° 17.89	1.7	346.5	4248	"	"	"	"	"	"	
	1245	89° 45.35	48° 49.59	4.7	146.8	4250	"	"	"	"	"	"	
	1300	89° 44.54	50° 25.48	2.4	207	4247	"	"	"	"	"	"	
	1315	89° 43.56	48° 48.55	0.5	348.6	4250	"	"	"	"	"	"	
	1330	89° 42.57	45° 21.17	2.1	250.1	4247	"	"	"	"	"	"	
	1345	89° 41.81	42° 21.37	0.4	316.3	4248	"	"	"	"	"	"	
	1400	89° 40.67	46° 20.82	3.6	285.0	4255	"	"	"	"	"	"	
	1415	89° 40.03	37° 40.59	3.8	245.3	4264	"	"	"	"	"	Baguam	
	1430	89° 38.47	39° 27.14	5.8	216.0	4267	"	"	"	"	"	"	
	1445	89° 38.77	32° 47.09	4.0	24.8	4260	"	"	"	"	"	"	
	1502	89° 37.97	33° 03.27	3.7	318.0	4261	"	"	"	"	"	"	
	1516	89° 37.63	28° 32.77	5.0	288.5	4260	"	"	"	"	"	"	
	1530	89° 37.46	28° 58.58 W	3.3	285.2	4258	"	"	"	"	"	"	
	1545	89° 37.83 N	31° 15.0 W	4.6	323.4	4257	25-30	"	"	"	4	No P	
	1600	89° 38.77 N	31° 16.3 W	7.1	333.2	4255	"	5000	200	4	4	one P	
8.9.91	1615	(89° 39.6 N)	(31° 57.2)	3.8	304.2	4258	~20	"	"	4	4	MORAN	Achtung! The positions are
	1630	(89° 39.9)	(30° 59 W)	7.2	281.6	4289	~20	"	"	4	4	"	wrong - the Indas system
	1645	(89° 32.2 N)	(20° 28.5 N)	4.6	271.4	4245	~40	"	"	4	4	"	is down. Positions entered
	1700	(89° 31.6 N)	(19° 14.6 N)	2.7	278.3	4244	~45	"	"	4	4	"	in parentheses () are
	1715	89° 31.1	17° 58.2 W	7.4	236.4	4244	~50	"	"	4	4	"	probably incorrect.

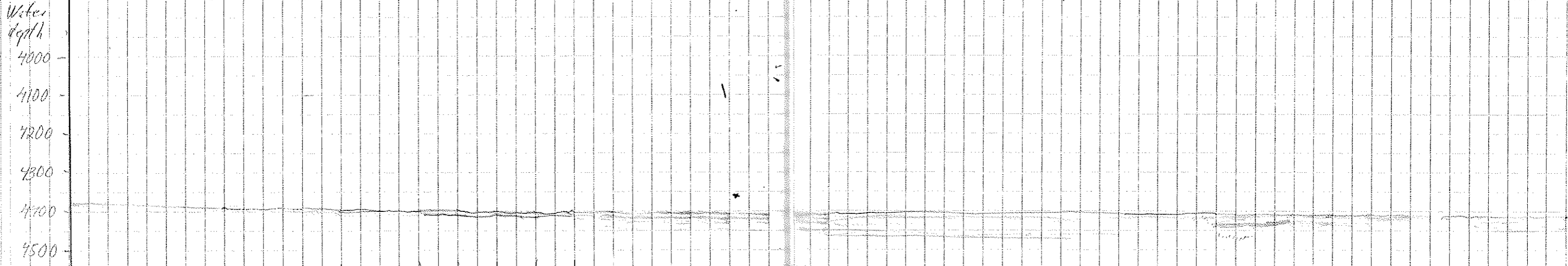


Achtung! The positions are wrong - the Indas system is down. Positions entered in parentheses () are probably incorrect. Navigation okay @ 1715

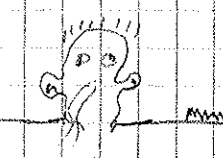
DATE	TIME	LATITUDE	LONGITUDE	SPEED	COURSE	WATER DEPTH	PENETRATION	RANGE	SCALE	FREQUENCY	# OF PULSES	NAME	COMMENT
8-9-91	1730	89° 30.5N	16° 18.5W	6.0	259.7	4247	~55	5000	200	4	4	MORAN	Navigation only
	1745	89° 29.6N	15° 26.3W	5.7	232.2	4251	~50	"	"	"	"	"	
	1800	89° 28.68N	13° 49.02W	7.2	207.8	4255	~50	"	"	"	"	MOSNER	
	1815	89° 27.93N	12° 18.803W	4.5	228	4260	~50	"	"	"	"	"	
	1830	89° 27.16N	10° 49.34W	6.6	253.4	4265	~50	"	"	"	"	"	
	1845	89° 25.66N	9° 44.99	6.6	210.3	4270	~50	"	"	"	"	"	
	1900	89° 24.64N	9° 07.38W	6.0	208.2	4273	~50	"	"	"	"	"	
	1915	89° 23.37N	8° 21.30W	4.8	146.6	4277	~50	"	"	"	"	"	
	1930	89° 22.73N	7° 11.22W	2.2	130.3	4283 m	40m	"	"	"	"	"	
	1945	89° 22.43N	6° 42.99	0.3	272.6	4287	30m	"	"	"	"	"	
	2000	89° 22.43N	5° 49.69W	2.4	125.6	4291 m	25m	"	"	"	"	"	
	2015	89° 21.73	005° 15.88 W	4.0	141.2	4295	40m	"	100	"	"	"	J.T.H. side
	2030	89° 21.01	004° 50.29 W	5.4	193.5	4298	40m	"	"	"	"	"	
	2045	89° 20.66	004° 10.14 W	4.6	139.9	4304	"	"	"	"	"	"	
	2100	89° 18.90	003° 26.07 W	1.2	132.0	4312	"	"	"	"	"	"	
	2115	89° 18.38	002° 01.64 W	1.5	173	4320	"	"	"	"	"	"	
	2130	89° 17.17	002° 02.65 W	5.2	163	4326	"	"	"	"	"	"	
	2145	89° 16.30	002° 14.67 W	4.3	82.2	4327	"	"	"	"	"	"	
	2200	89° 14.95	001° 21.62 W	2.0	79.4	4333	"	"	"	"	"	"	
	2215	89° 14.01	0° 17.51 E	1.8	75	4340	"	"	"	"	"	"	Spelling
	2230	89° 13.18	0° 45.91 E	1.4	165	4345	"	"	"	"	"	"	
	2245	89° 12.18	1° 06.59 E	1.7	319	4349	"	"	"	"	"	"	
	2300	89° 11.04	2° 22.14 E	1.8	106	4357	"	"	"	"	"	"	
	2315	89° 09.96	2° 13.04 E	1.8	121	4359	"	"	"	"	"	"	
	2330	89° 09.19	2° 46.06 E	1.5	39	4361	"	"	"	"	"	"	
	2345	89° 08.04	3° 01.27 E	1.0	208	4365	"	"	"	"	"	"	
09-03	0000	89° 07.28	2° 32.06 E	3.7	0.6	4365	"	"	"	"	"	"	
	0015	89° 07.09	3° 38.75	4.2	289.6	4368	"	"	"	"	"	"	
	0030	89° 06.22	4° 25.71 E	3.2	253	4369	30	"	"	"	"	"	
	0045	89° 05.11	4° 30.76	6.5	338.6	4371	"	"	"	"	"	"	
	0100	89° 03.64	5° 29.64	3.0	331.1	4374	"	"	"	"	"	"	
	0115	89° 03.11	6° 01.72	4.3	19.9	4376	"	"	"	"	"	"	
	0130	89° 02.41	6° 29.93	2.5	324.2	4378	"	"	"	"	"	"	
	0145	89° 01.94	7° 13.73	3.2	303.5	4380	"	"	"	"	"	"	
	0200	89° 01.30	8° 01.48 E	7.4	281.5	4382	25	"	"	"	"	"	3000-12W
	0215	89° 00.59	9° 13.25	3.2	292.5	4383	"	"	"	"	"	"	
	0230	89° 00.07	9° 42.97	3.1	278	4385	25	"	"	"	"	"	
	0239	88° 59.96	9° 39.60	0	21.4	4383	"	"	"	"	"	"	Arrival at station 02.34
	0245	88° 59.92	9° 33.11	0.5	316.0	4385	"	"	"	"	"	"	
	0300	88° 59.63	8° 00.70	0.4	10.4	4385	20-30	"	"	"	"	"	Frequency test



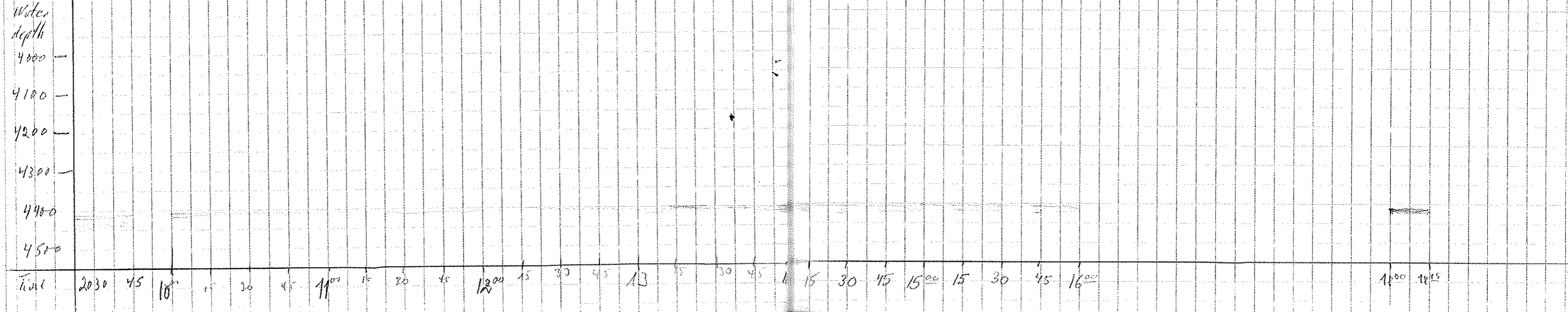
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
9.9.91	0830	88° 59 20	007° 55 60		-	438.4	20	5000	100	4	4	Thiede	
9.9.91	1045	88° 59 25	7° 57 46			438.4	50	"	"	"	"	Vance	GPS not working?
"	1100	88° 58 51	7° 57 47	5.5	62.8	438.6	30	"	"	"	"	GARD	
"	1115	88° 57 19	7° 51 11	7.7	50.4	438.8	"	"	"	"	"	"	
"	1130	88° 55 75	7° 44 98	3.7	66.4	438.8	30	"	"	"	"	"	
"	1145	88° 54 76	7° 42 22	7.2	66.4	439.2	"	"	"	"	"	Vance	
"	1200	88° 53 31	7° 37 60	4.4	49.2	439.4	"	"	"	"	"	"	
"	1215	88° 51 67	7° 34 27	7.0	40.2	439.7	30	"	"	"	"	FREARNS	
"	1230	88° 49 88	7° 56 33	6.2	48.9	439.9	30	"	"	"	"	"	
"	1245	88° 48 60	7° 41 49	4.9	88.2	440.0	30	"	"	"	"	"	
"	1300	88° 47 40	7° 00 07	6.3	81.8	440.1	30	"	"	"	"	"	
"	1315	88° 46 08	6° 07 22	6.4	83.0	440.1	30	"	"	"	"	"	
"	1330	88° 45 10	5° 14 58	3.9	72.4	440.1	30	"	"	"	"	"	
"	1345	88° 43 76	5° 47 69	6.2	8.0	440.2	30	"	"	"	"	"	
"	1400	88° 42 72	5° 28 67	5.3	10.4	440.3	30	"	"	"	"	"	
"	1415	88° 41 63	5° 50 03	2.8	30.6	440.4	40	"	"	"	"	GARD	
"	1430	88° 40 61	6° 16 67	4.3	343.6	440.4	50	"	"	"	"	"	
"	1445	88° 39 73	6° 50 29	7.2	338.8	440.5	"	"	"	"	"	"	
"	1500	88° 38 85	6° 47 01	3.5	128.0	440.5	"	"	"	"	"	"	
"	1515	88° 38 32	6° 23 41	7.7	66.8	440.4	"	"	"	"	"	"	
"	1530	88° 37 16	6° 37 26	7.8	32.7	440.6	"	"	"	"	"	"	
"	1545	88° 36 13	6° 27 20	2.4	96.6	440.6	"	"	"	"	"	"	
"	1600	88° 35 19	6° 24 47	2.2	37.4	440.7	"	"	"	"	"	"	
"	1615	88° 34 15	6° 16 07	2.9	102.7	440.7	"	"	"	"	"	Vance	
"	1630	88° 33 27	6° 22 31	2.2	97.2	440.7	"	"	"	"	"	"	
"	1645	88° 32 16	6° 39 47	4.6	104.4	440.7	"	"	"	"	"	"	
"	1700	88° 31 34	6° 58 49	6.3	102.0	440.8	"	"	"	"	"	"	
"	1715	88° 30 21	7° 56 84	4.3	90.6	440.9	"	"	"	"	"	"	
"	1730	88° 29 52	8° 27 86	4.1	102.4	440.9	"	"	"	"	"	"	
"	1745	88° 28 25	9° 00 92	3.5	113.6	440.9	"	"	"	"	"	"	
"	1800	88° 28 62	9° 28 60 E	3.7	137.6	441.0	25	"	200	"	"	Johnson	
"	1815	88° 27 79	9° 38 50	5.2	126.6	441.0	"	"	"	"	"	"	
"	1830	88° 26 70	10° 10 36 E	6.2	171.4	441.0	40	"	"	"	"	"	
"	1845	88° 25 04	10° 43 80	6.5	206.7	441.1	40	"	"	"	"	"	
"	1900	88° 23 14	10° 54 60	7.0	232	441.1	30	"	"	"	"	"	
"	1915	88° 21 72	11° 14 01	5.3	256	441.1	35	"	"	"	"	"	
"	1930	88° 20 64	10° 54 22	6.4	269	441.1	35	"	"	"	"	"	
"	1945	88° 19 47	10° 19 31	6.6	240	441.1	"	"	"	"	"	"	
"	2000	88° 18 21	10° 15 75	5.4	277.0	441.1	30	"	"	"	"	Johnson	
"	2015	88° 16 99	9° 58 87	6.6	252.0	441.1	30	"	"	"	"	"	
"	2030	88° 16 26	9° 46 30	4	353.6	441.1	20	"	"	"	"	"	



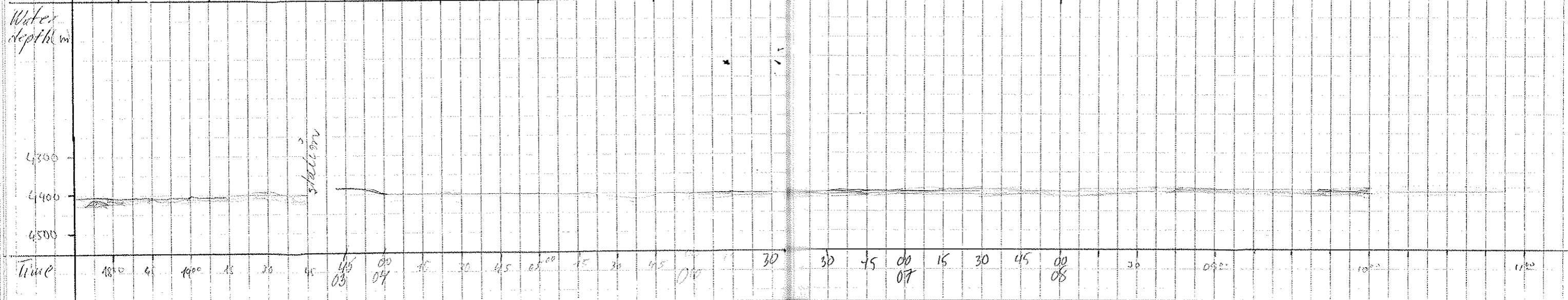
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------	------	----	----	----	------	----	----	----	------	----	----	----	------	----	----	----	------	----	----	----	------	----	----	----	------	----	----	----	------	----	----	----	------	----	----	----	------	------



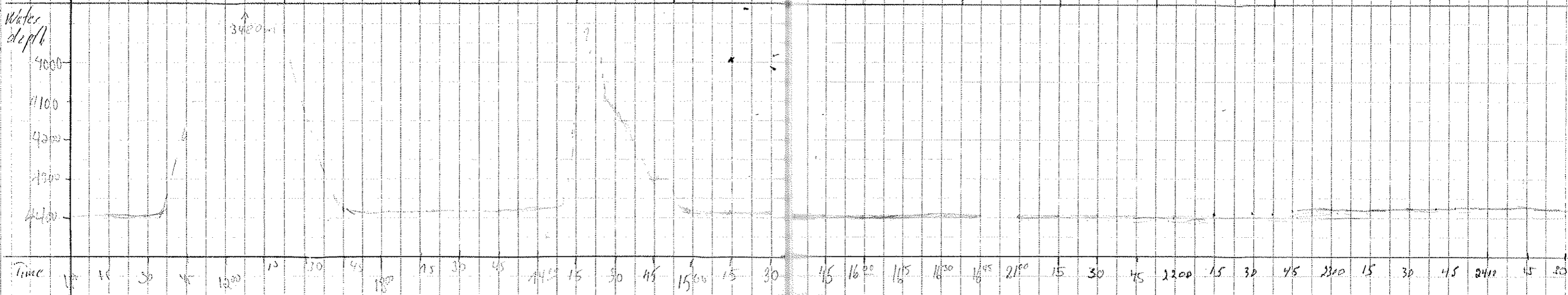
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
	20 45	88° 16.01	9° 09' 64"	3.1	56.4	4411	30	5000	100	4	4	Godney	
	21 00	88° 16.11	10° 06.65	4.7	132.0	4411	30	"	"	"	"	"	
	21 15	88° 16.20	10° 10.86	1.3	207.2	4410	30	"	"	"	"	"	ON Station
10.09.91	08 00	88 15 23	008 04 84 E	7.3	289	4409	30	"	"	"	"	Thiede	on station
	09 01	88 15 41	07 45 89	0.6	298	4409	40	"	"	Frequency test	"	Bejerman	
	09 52	88 15 48	007 31 02 E	4.2	261	4409	30	"	"	"	4	Thiede	END OF STATION
	10 00	88 15 31	007 07 42 E	6.0	206	4408	30	"	"	"	"	"	
	10 15	88 14 08	7 00 46	5.0	193	4408	"	"	"	"	"	Vonew	- Storage on
	10 30	88 13 35	7 04 99	3.2	90	4408	"	"	"	"	"	"	
	10 45	88 12 45	7 11 72	7.0	225	4408	"	"	"	"	"	"	
	11 00	88 11 22	7 17 34	5.5	44	4408	"	"	"	"	"	"	
	11 20	88 09 71	7 50 92	7.0	191	4408	"	"	"	"	"	"	
	11 32	88 08 40	8 00 66	7.2	167	4408	"	"	"	"	"	"	
	11 46	88 04 06	8 20 80	7.3	142	4408	"	"	"	"	"	"	
	12 00	88 06.13N	9 06.34 E	8.0	104.9	4408	30	"	"	"	"	FREUDERIKS	
	12 15	88 06.16	10 02.26 E	8.5	111.3	4409	"	"	"	"	"	"	
	12 30	88 04.55	10 32.39 E	6.2	194.7	4409	"	"	"	"	"	"	
	12 45	88 03.04	10 25.22 E	7.0	171.1	4409	"	"	"	"	"	"	
	13 00	88 01.39	10 24.89 E	6.5	181.6	4408	"	"	"	"	"	"	
	13 15	87 59.80	10 23.01 E	6.2	179.0	4408	"	"	"	"	"	"	
	13 30	87 58.44	10 33.63 E	7.2	135.4	4408	"	"	"	"	"	"	
	13 45	87 57.34	11 06.21 E	8.2	121.9	4408	"	"	"	"	"	"	
	14 00	87 56.42	11 00.06 E	5.8	237.9	4408	"	"	"	"	"	"	GARD
	14 15	87 55.39	10 31.97 E	6.2	221.3	4408	"	"	"	"	"	"	"
	14 30	87 54.06	10 08.34 E	6.5	209.5	4407	"	"	"	"	"	"	"
	14 45	87 52.32	9 50.63 E	6.7	200.7	4407	"	"	"	"	"	"	"
	15 00	87 51.27	9 45.29 E	5.5	179.2	4407	"	"	"	"	"	"	"
	15 15	87 49.83	9 46.42 E	6.0	151.3	4407	"	"	"	"	"	"	"
	15 30	87 48.79	9 54.83 E	7.6	176.8	4407	"	"	"	"	"	"	"
	15 45	87 47.39	10 03.02 E	3.6	169.7	4408	"	"	"	"	"	"	"
	16 00	87 46.79	10 27.28 E	4.4	98.3	4408	"	"	"	"	"	"	Vonew
	16 15	87 46.58	10 44.28 E	7.6	181.7	4408	"	"	"	"	"	"	"
	16 30	87 44.02	10 44.09 E	3.5	161.0	4407	"	"	"	"	"	"	"
	16 45	87 42.94	10 46.48 E	5.4	166.6	4408	"	"	"	"	"	"	"
	17 00	87 42.08	10 47.93 E	3.4	152.5	4408	"	"	"	"	"	"	"
	17 15	87 41.29	11 05.92 E	3.2	180.9	4408	"	"	"	"	"	"	"
	17 30	87 39.88	11 13.61 E	7.5	187.4	4408	"	"	"	"	"	"	"
	17 45	87 38.74	11 21.72 E	7.7	164.4	4408	"	"	"	"	"	"	"
	18 00	87 38.34	11 47.21 E	4.6	124.8	4409	15	5000	100	4	4	Shubert	
	18 15	87 37.13	12 03.01 E	1.7	147.7	4409	20	"	"	"	"	"	



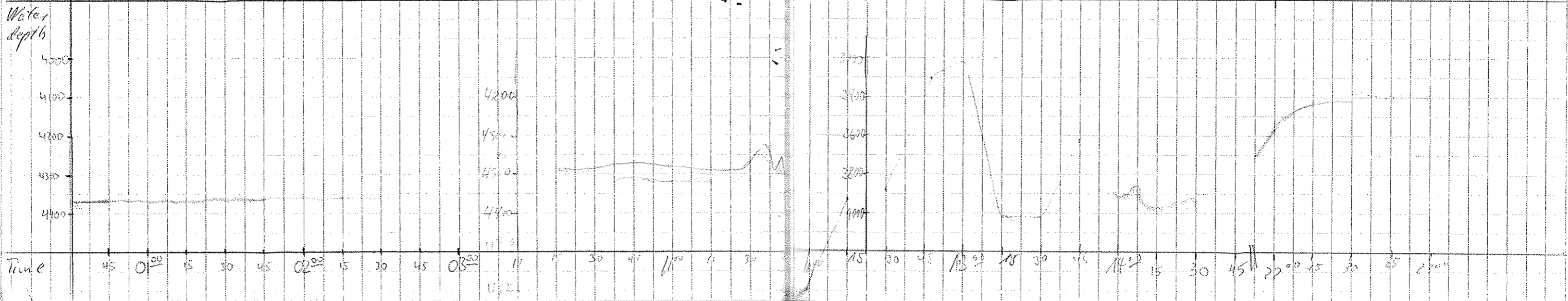
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
10.9.81	18:30	87° 36.0'	171° 20.4'	2.1	118.8	4410	25	5000	100	4	4	Leibent	
	18:45	87° 35.7'	170° 45.10'	5.6	221.6	4412	22	"	"	"	"	"	
	19:00	87° 34.05'	170° 51.47'	5.6	201.8	4408	25	"	"	"	"	"	
	19:15	87° 33.49'	170° 39.15'	2.8	257.7	4403	28	"	"	"	"	"	
	19:30	87° 32.49'	170° 21.52'	5.8	142.3	4388	30	"	"	"	"	"	
	19:45	87° 30.82'	170° 37.17'	2.1	143.3	4401	25	"	"	"	"	"	
	19:59	87° 30.42'	170° 42.00'	0.8	189.6	4407	40	"	"	"	"	"	
	20:52	87° 30.90'	171° 22.15'	0.5	307.1	4400	"	"	"	Frequency	"	"	2300 Sprickung aus Klein Signal wegen starker Störung
	02:20	87° 32' 08"	10° 59' 31"	2.5	181.	4442	-	"	200	4	4	Bergsten	Moving to Margos of ODEU
	02:50	87° 30' 81"	11° 15' 45"	0.1	72.6	4400	-	"	200	"	"	"	Staying close to ODEU
	03:45	87° 31' 01"	11° 15' 45"	1.9	42.8	4379	-	"	200	"	"	"	Leaving station 03:45
	04:50	87° 30' 85"	11° 27' 37"	2.6	158	4400	25	"	"	"	"	"	
	04:59	87° 30' 06"	11° 31' 40"	4.4	118.2	4399	30	"	"	"	"	"	
	04:50	87° 29' 64"	11° 37' 30"	0.2	220.2	4399	4	"	"	"	"	"	
	04:45	87° 28' 84"	11° 42' 55"	5.5	124.9	4398	"	"	"	"	"	"	
	05:00	87° 28' 53"	12° 05' 46"	5.9	117.3	4400	"	"	"	"	"	"	
	05:15	87° 28' 49"	12° 34' 59"	3.6	55.2	4400	"	"	"	"	"	"	
	05:30	87° 28' 10"	12° 56' 57"	5.5	100.7	4402	"	"	"	"	"	"	
	05:45	87° 26' 41"	13° 03' 06"	6.2	144.3	4400	"	"	"	"	"	"	
	06:00	87° 25' 00"	12° 54' 42"	6.6	208.5	4400	"	"	"	"	"	"	
	06:15	87° 24' 00"	12° 44' 30"	6.3	198.8	4400	"	"	"	"	"	"	BRASS
	06:30	87° 22' 16"	12° 30' 01"	6.6	240.6	4400	"	"	"	"	"	"	"
	06:45	87° 21' 84"	12° 14' 07"	6.3	233.4	4399	"	"	"	"	"	"	"
	07:00	87° 20' 99"	11° 54' 72"	5.6	252.9	4397	"	"	"	"	"	"	"
	07:15	87° 20' 03"	11° 40' 44"	5.8	263.9	4395	25	"	"	"	"	"	"
	07:30	87° 19' 70"	11° 19' 93"	1.8	248.8	4394	"	"	"	"	"	"	"
	07:45	87° 19' 15"	11° 07' 30"	5.1	217.0	4393	"	"	"	"	"	"	"
	08:00	87° 18' 16"	11° 02' 42"	6.1	203.3	4393	"	"	"	"	"	"	"
	08:15	87° 16' 83"	010° 53' 29" E	2.7	206.7	4392	"	"	"	4	4	"	
	08:30	87° 16' 16"	010° 49' 19"	1.6	192.6	4392	"	"	"	"	"	"	
	08:45	87° 15' 43"	010° 48' 79"	4.2	159.4	4392	"	"	"	"	"	"	
	09:00	87° 14' 34"	010° 58' 03"	2.6	149.1	4393	"	"	"	"	"	"	
	09:12	87° 14' 42"	010° 57' 16"	2.4	242.5	4392	"	"	"	"	"	"	
	09:30	87° 13' 47"	010° 46' 01"	2.3	120.9	4391	"	"	"	"	"	"	
	09:45	87° 13' 06"	010° 50' 82"	3.7	194.4	4391	"	"	"	"	"	"	
	10:00	87° 12' 23"	010° 50' 04"	4.6	264.8	4391	"	"	"	"	"	"	
	10:15	87° 11' 09"	010° 52' 31"	1.2	204.8	4391	"	"	"	"	"	"	
	10:30	87° 10' 60"	010° 44' 34"	4.6	200.-	4390	"	"	"	"	"	"	
	10:40	87° 09' 03"	010° 23' 84"	6.0	218	4389	"	"	"	"	"	"	
	11:00	87° 08' 16"	010° 12' 25"	6.3	201.7	4387	"	"	"	"	"	"	
	11:15	87° 08' 03"	010° 4' 94"	6.4	187.2	4388	"	"	"	"	"	"	



Date	Time	Lat	Long	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Puffs	Name	Comments
11.09.91	11:30	87° 06' 21"	016° 03' 60"	5.0	205	4066	20	6000	200	4	4	Voreau	
	11:45	87° 04' 45"	016° 06' 39"	7.2	205.8	4204	20	"	"	"	"	"	No registration, steep slope
	12:00	87° 03' 72"	9° 53' 50"	4.8	178.0	3654	20	"	"	"	"	"	
	12:15	87° 02' 79"	9° 54' 50"	5.8	266.3	3480	20	"	"	5.5	8	FREDERICKS	
	12:30	87° 01' 92"	9° 51' 14"	4.7	156.5	3881	20-30	"	"	4	4	"	pool or no registration
	12:45	87° 00' 50"	9° 54' 18"	6.4	187.8	4382	"	"	"	"	"	"	
	13:00	86° 59' 19"	9° 57' 84"	5.8	176.5	4382	"	"	"	"	"	"	
	13:15	86° 58' 15"	9° 59' 86"	3.2	170.9	4383	"	"	"	"	"	"	
	13:30	86° 56' 80"	10° 02' 78"	6.1	157.9	4383	"	"	"	"	"	"	
	13:45	86° 55' 54"	10° 07' 01"	5.9	208.3	4383	"	"	"	"	"	"	
	14:00	86° 54' 34"	9° 58' 70"	2.8	184.9	4378	"	"	"	"	"	"	
	14:15	86° 53' 26"	9° 16' 85"	7.4	228.7	4144?	"	"	"	"	"	GARD	No registration
	14:30	86° 52' 64"	9° 31' 96"	5.2	233.7	4131	10	"	"	"	"	"	poor registration
	14:45	86° 51' 65"	9° 22' 77"	2.9	164.2	4306	15	"	"	"	"	"	
	15:00	86° 50' 69"	9° 24' 98"	7.9	234.5	4375	30	"	"	"	"	"	
	15:15	86° 50' 05"	9° 19' 01"	5.5	169.9	4378	"	"	"	"	"	"	
	15:30	86° 49' 55"	9° 26' 99"	3.7	172.5	4377	40	"	"	"	"	"	
	15:45	86° 48' 79"	9° 32' 51"	4.5	168.9	4381	"	"	"	"	"	"	
	16:00	86° 47' 60"	9° 39' 27"	2.9	177.9	4384	"	"	"	"	"	"	
	16:15	86° 46' 53"	9° 48' 34"	3.7	109.3	4391	"	"	"	"	"	Voreau	
	16:30	86° 45' 69"	9° 57' 46"	3.0	155.3	4373	"	"	"	"	"	"	
	16:40	86° 45' 41"	9° 54' 95"	0.5	67.5	4393	"	"	"	"	"	"	Station!
	16:58	86° 45' 62"	10° 07' 58"	5.7	257.8	4393	20	"	"	5.5	6	Borghman	station board
	17:15	86° 44' 81"	9° 41' 33"	7.0	238.6	4392	23	"	"	"	"	Jodrey	
	17:30	86° 44' 18"	9° 37' 68"	0.9	194.8	4392	20	"	"	"	"	GARD	STOP FOR PUTTING DIAGRAMS IN WATER
	17:45	86° 44' 14"	9° 38' 42"	0.7	302.8	4322	"	"	"	"	"	"	
	18:00	86° 44' 18"	9° 37' 85"	.1	301.2	4392	"	"	"	"	"	Jodrey	
	18:15	86° 44' 29"	9° 38' 01"	1.1	6.9	4392	25	"	"	"	"	"	
	18:30	86° 44' 52"	9° 37' 02"	9.5	239.8	4391	30	"	"	"	"	"	under way
	18:45	86° 44' 57"	9° 24' 79"	6.8	303.5	4391	20	"	"	"	"	"	
	19:00	86° 44' 19"	9° 10' 23"	6.6	266.2	4387	25	"	"	"	"	"	
	19:15	86° 43' 25"	8° 56' 28"	2.6	215.7	4382	18	"	"	"	"	"	
	19:30	86° 43' 09"	8° 41' 60"	9.1	246.0	4379	20	"	"	"	"	"	
	19:45	86° 41' 87"	8° 19' 89"	7.7	270.0	4373	25	"	"	"	"	"	
	20:00	86° 42' 12"	7° 53' 20"	12.6	225.0	4368	28	"	"	"	"	"	
	15	86° 41' 13"	7° 31' 80"	1.6	234.5	4365	25	"	"	"	"	"	
	30	86° 41' 45"	7° 38' 94"	14.0	83.1	4366	25	"	"	"	"	"	Stop; Airgun defect/air out; water level 0026



Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
12.09.91	00 45	86° 42.83	07° 56.85	5.8	36.5	4369	25	3000	200	5.5	6	Geni	
	01 15	86° 42.78	07° 57.40	3.9	229.0	4369							
	01 45	86° 41.95	07° 46.00	6.0	202.5	4369							
	01 55	86° 41.04	07° 32.54	4.9	217.6	4366							
	02 01	86° 40.12	07° 18.08	6.2	242.8	4363							
	02 15	86° 39.25	07° 04.28	7.2	178	4261							BELGISTEN
	02 30	86° 37.76	06° 53.93	5.9	211	4360							
	02 45	86° 36.73	06° 53.77	5.8	116	4361							
	03 15												
	03 33	86° 25.80	07° 09.15	0.7	58.2	4362	10			4	4	Bagman	Arriving at station 2:55 Back up
	09 10	86 35 08	007 25 21 E	0	27.7	4260	11			4	4	Thick	on #
	09 25	86 35 04	007 35 04 E	0.4	247.4	4357	11			"	"	"	"
	10 15	86 34 08	007 19 00	3.9	156.7	4348	11			"	"	Varren	Departing station at 10:13
	11 30	86 33 41	007 24 25	5.7	177.0	4342	11			"	"	"	Gas blanking without 1082
	11 45	86 32 34	007 36 02	4.0	189.0	4336	30			"	"	"	
	11 50	86 30 89	007 33 18	5.8	194.8	4037	40			"	"	"	
	11 52	86 29 43	007 23 08	8.1	151.7	41344	41			"	"	"	
	11 53	86 27 80	007 01 95	6.2	157.3	4316				"	"	"	Just lost the signal because of steep slope Missing a bunch with bottoming sampling (Apparent flow deposits?)
	11 54	86 26 01	007 31 17	6.3	153.3	4310	25			"	"	"	
	12 20	86 24 54	002 39 01	6.8	160.4	4300	"			"	"	"	
	12 25	86 23.23	7° 50.82	6.6	148.1	4380	25			5.5	4	FREQUENCIES	
	12 30	86 22.59	8° 07.09	5.4	72.9	3893	?			"	8	"	
	12 39	86 21.56	8° 31.14	6.9	136.7	3304				"	4	"	
	13 00	86 20.46	8° 35.91	4.3	167.9	3235				"	4	"	Rough topography
	13 28	86 19.02	8° 48.49	6.5	116.3	4007	30			"	4	"	
	13 30	86 17.85	8° 43.17	5.2	196.7	4011	30			"	4	"	
	13 45	86 16.39	8° 44.60	6.6	142.7	3822	?			"	4	"	
	14 00	86 15.51	8° 59.41	5.4	15.1	3917	?			"	4	"	GARD
	14 15	86 14.98	9° 17.47	6.0	90.7	3977	?			4.5	4	"	
	14 30	86 15.24	9° 31.44	7.8	70.8	3979	?			5.5	4	"	
	14 43	86 15.24	9° 35.26	0.2	58.2	3856	?			"	4	"	ON STATION
	21 57	86 13.52	8° 27.89	1.0	271.8	3801	?			"	6	Bagman	
	22 00	86 13.57	8° 28.35	1.3	292.4	3703	?			"	6	"	
	22 15	86 13.68	8° 25.37	1.0	288.6	3470	?			"	8	"	
	22 30	86 13.80	8° 22.12	0.7	301.6	3428	?			"	4	"	
	22 40	86 13.84	8° 20.93	0.2	201.2	3374	?			"	4	"	
	23 00	86 13.88	8° 18.58	0.6	329.5	3368	?			"	4	"	



Station 6.5 23:50

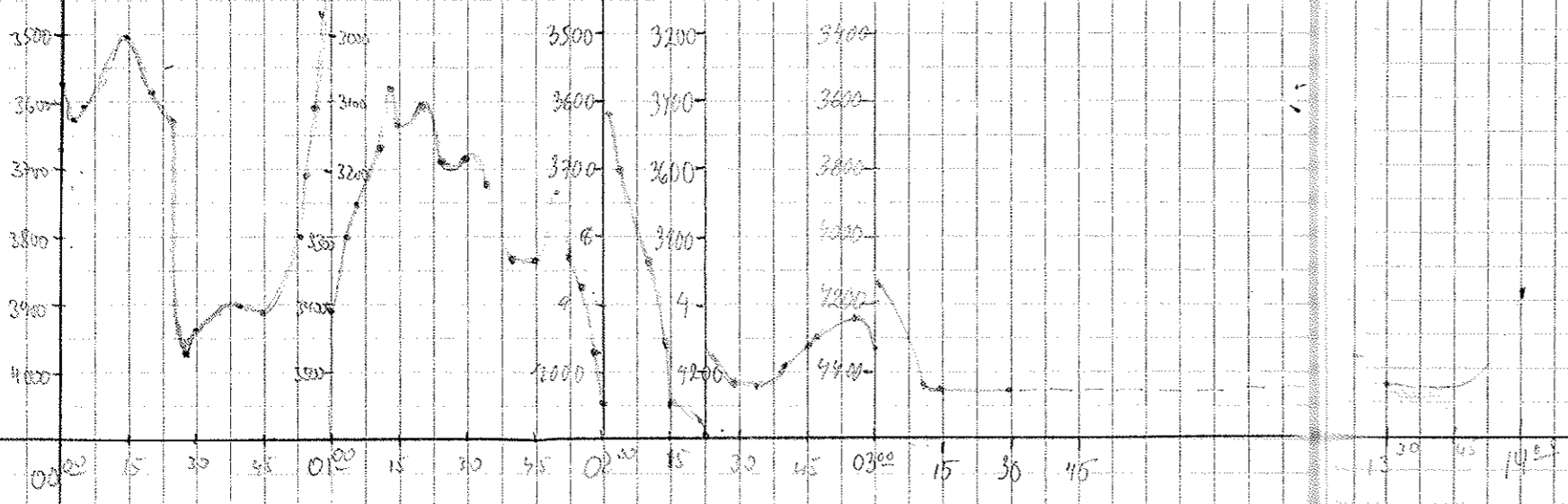
Date	Time	Lat. true	Long. true	Speed	Course	Water depth	Range	Scale	Frequency	# of Pulses	Name	Comments
13.09.51	00 ⁰⁰	86° 12.87	09° 16.06	7.3	182.8	3578	3000	200	5.5	8	Gard	
	00 ⁰³	86° 12.86	09° 14.73	4.3	230.8	3626	"	"	"	"	"	
	00 ⁰⁵	86° 12.58	9° 12.61	5.8	235.5	3602	"	"	"	"	"	
	15	86° 12.59	8° 58.69	5.0	313.5	3502	"	"	"	"	"	
	18	86° 12.82	8° 54.43	7.1	291.8	3587	"	"	"	"	"	
	20	86° 12.84	8° 52.16	5.3	295.6	3630	"	"	"	"	"	
	27	86° 12.80	8° 47.91	5.3	271.2	3975	"	"	"	"	"	
	30	86° 12.59	8° 39.02	4.5	229.6	3939	"	"	"	"	"	
	40	86° 12.15	8° 29.63	5.8	245.2	3903	"	"	"	"	"	
	45	86° 11.96	8° 21.96	4.2	241.6	3903	"	"	"	"	"	
	54	86° 11.58	8° 11.70	6.0	238.9	3807	"	"	"	"	"	
	55	86° 11.54	8° 10.48	6.2	244.	3709	"	"	"	"	"	
	56	86° 11.50	8° 09.06	6.5	247.5	3604	"	"	"	"	"	
	57	86° 11.53	8° 06.9	6.7	247.3	3465	"	"	"	"	"	
	01 ⁰⁰	86° 11.26	8° 03.26	5.9	270	3404	"	"	"	"	"	
	03	86° 11.07	7° 59.81	6.3	278.2	3300	"	"	"	"	"	
	05	86° 11.00	7° 56.94	6.4	257.3	3254	"	"	"	"	"	
	10	86° 10.54	7° 51.90	5.9	208.1	3164	"	"	"	"	"	
	12	86° 10.37	7° 49.91	6.5	234.8	3074	"	"	"	"	"	
	15	86° 10.21	7° 46.32	5.7	226.8	3135	"	"	"	"	"	
	20	86° 09.83	7° 41.83	6.0	227.8	3108	"	"	"	"	"	
	25	86° 09.21	7° 34.75	5.1	284.6	3194	"	"	"	"	"	
	30	86° 09.25	7° 26.96	5.5	308.1	3180	"	"	"	"	"	
	35	86° 09.48	7° 17.29	6.0	300.1	3237	"	"	"	"	"	
	40	86° 10.16	7° 7.20	8.0	302.3	3332	"	"	"	"	"	
	45	86° 10.30	7° 15.01	8.5	317.3	3336	"	"	"	"	"	
	50	86° 10.41	7° 10.16	5.8	292.9	3283	"	"	"	"	"	
	55	86° 10.65	7° 06.15	6.2	299.4	3322	"	"	"	"	"	
	58	86° 10.77	7° 02.57	6.9	281.9	3370	"	"	"	"	"	
	58	86° 10.81	6° 58.18	6.4	275.2	3477	"	"	"	"	"	
	02 ⁰⁰	86° 10.83	6° 55.37	6.4	273.8	3530	"	"	"	"	"	
	2 ¹⁵	86° 10.12	6° 34.46	5.6	237.1	4051	"	"	"	"	"	
	2 ³⁰	86° 09.78	6° 14.06	6.3	235.6	4225	"	"	"	"	"	
	2 ⁴⁵	86° 08.46	5° 56.47	6.5	231.2	4131	"	"	"	"	"	
	3 ⁰⁰	86° 07.70	5° 35.91	6.2	229.5	4120	"	"	"	"	"	
	3 ¹⁵	86° 08.00	5° 19.85	2.9	286.7	4453	"	"	"	"	"	
	3 ³⁰	86° 08.55	5° 07.33	8.6	310.3	4755	"	"	"	"	"	
	3 ⁴²	86° 08.95	5° 03.05	0.4	280.2	4755	"	"	"	"	"	
	13 ⁴⁸	86° 07.70	4° 46.52	3.3	26.3	4756	"	"	"	"	"	ON STATION
	13 ⁴⁵	86° 07.74	4° 54.74	6.4	357.9	4753	"	"	"	"	"	LEAVING STATION
	14 ⁰⁰	86° 10.23	4° 43.68	6.6	339.3	4779	"	"	"	"	"	GARD

step slope / rough topography
 → bad signal

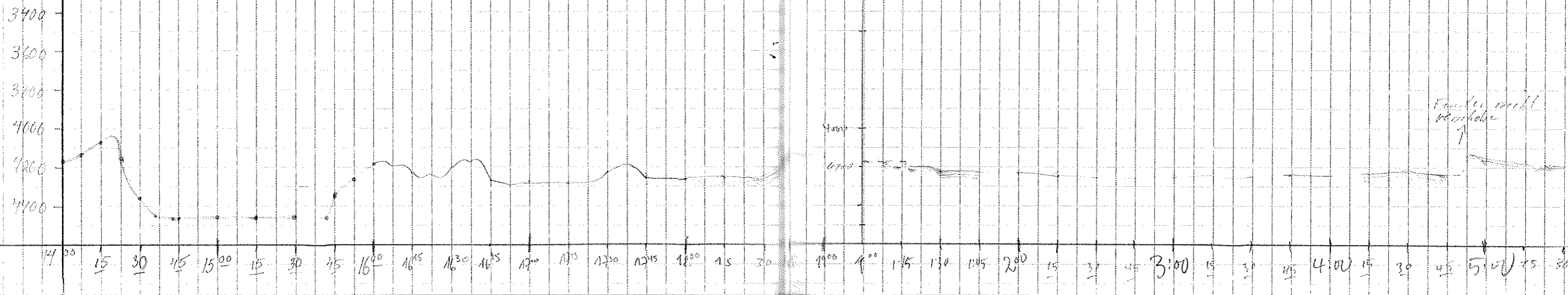
GARD

TREJAK'S

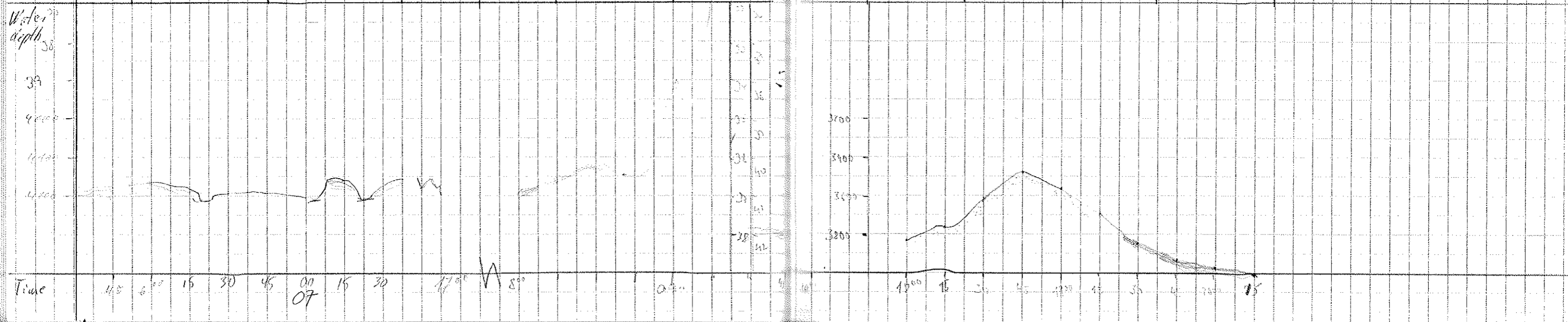
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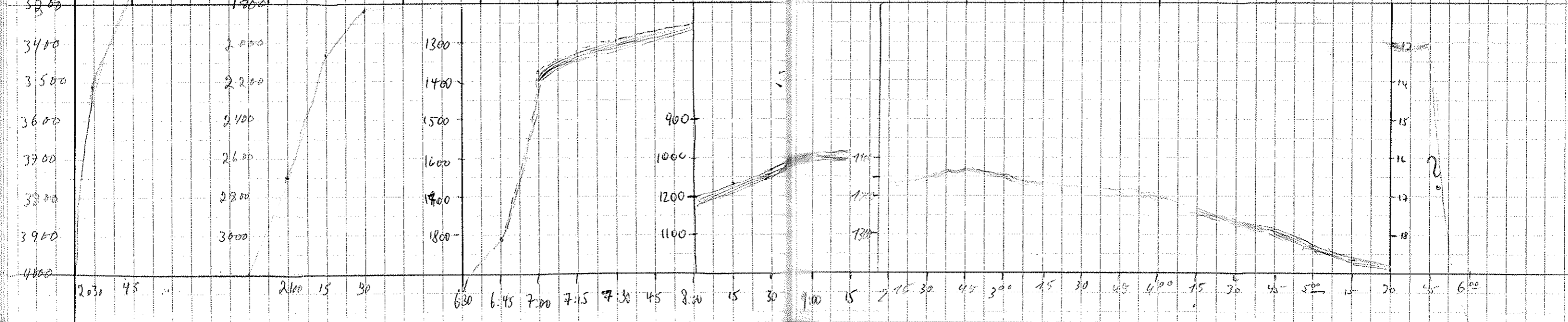
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
13.09.91	14:15	86° 09.53	4° 23.86 E	6.3	214.5	4084	40	5000	200	5.5	8	GARD	
	14:30	86° 08.52	4° 12.33	6.2	206.7	4356	20	"	"	"	"	"	
	14:45	86° 08.01	3° 58.21	4.2	298.6	4453	20-30	"	"	"	"	"	
	15:00	86° 07.14	3° 50.24	7.7	210.7	4455	40-50	"	"	4	8	"	
	15:15	86° 06.68	3° 36.28	5.5	265.8	4454	"	"	"	"	4	"	
	15:30	86° 05.85	3° 21.38	6.0	214.0	4454	"	"	"	"	11	"	
	15:45	86° 05.23	3° 07.49	5.1	275.0	4348	20	"	"	5.5	8	"	
	16:00	86° 05.02	2° 48.63	5.2	279.4	4191	20-30	"	"	"	"	"	
	16:15	86° 03.996	2° 27.62	6.7	225.1	4221	"	5000	1	4	5	Kristine	
	16:30	86° 03.32	2° 06.68	6.2	254.6	4203	"	"	"	"	5	"	
	16:45	86° 02.83	1° 44.30	6.4	253.2	4257	"	"	"	"	"	"	
	17:00	86° 01.56	1° 20.26	6.4	252.6	4263	"	"	"	"	"	"	
	17:15	86° 01.09	1° 07.31	5.3	240.1	4262	"	"	"	"	"	"	
	17:30	86° 02.29	0° 46.78	3.9	285.0	4249	"	"	"	"	"	"	
	17:45	86° 01.97	0° 33.45	5.4	174.0	4232	"	"	"	"	"	"	
	18:00	86° 00.45	0° 36.49	5.6	185	4241	30	1000	200	4	4	Schubert	
	18:15	85° 59.35	0° 29.31	6.9	230	4249	45	"	"	"	"	"	
	18:30	85° 58.64	0° 14.74	7.1	199.6	4263	35	"	"	"	"	"	
	18:45	85° 58.13	0° 17.48	1.8	247.9	4109	1	"	"	"	"	"	
	19:00	85° 57.97	0° 09.13 E	0.3	211.2	4190	1	"	"	"	"	"	1903 N.H.O.
	20:04	85° 56.03	0° 01.46 W	0.2	243.2	4044	19	"	"	Frequency test	6	Bequader	Kurs Piddler, Ode
14.09.	05:02	85° 55.32	0° 06.29 W	1.7	230.5	4097	?	"	"	5.5	6	"	
	1:15	85° 56.31 N	0° 13.52 W	3.1	48.0	4212	?	1000	200	4	6	Grobe	
	1:32	85° 56.73 N	0° 6.9' W	0.3	13.9	4235	?	"	"	"	"	"	
	1:45	85° 56.72 N	0° 7.01 W	0.2	200	4234	50?	"	"	"	"	"	
	2:00	85° 56.30	0° 06.76 W	0.3	22.3	4234	50	"	"	"	"	"	
	2:15	85° 56.22	0° 02.32 W	0.9	9.9	4253	30	"	"	"	"	"	Leaving position 2.21
	2:22	85° 57.00	0° 13.48 N	5.9	275	4263	40	"	"	"	"	"	
	2:32	85° 57.32	0° 37.12 W	6.8	270	4268	110	"	"	"	"	"	
	03:02	85° 57.08	1° 00.54 W	6.9	268	4268	30	"	"	"	"	"	
	03:15	85° 56.74	1° 20.83 W	6.2	210	4264	40	"	"	"	"	"	
	03:20	85° 55.50	1° 32.43 W	5.1	270	4261	35	"	"	"	"	"	
	03:45	85° 54.94	1° 53.83 W	6.4	231	4253	40	"	"	"	"	"	
	04:00	85° 53.83	2° 03.30 W	6.7	215	4255	35	"	"	"	"	"	
	04:15	85° 53.26	2° 21.15 W	5.4	254	4247	4	"	"	"	"	"	in dänischen Gewässern
	04:30	85° 52.72	02° 37.89 W	5.1	212.7	4241	20	"	"	4/5.5	4/5	Bequader	
	04:45	85° 51.60	02° 49.79 W	6.3	255.4	4247	40	"	"	4	4	"	
	05:00	85° 50.77	03° 10.12 W	7.0	252.4	4186	"	"	"	"	"	"	
	05:15	85° 49.30	02° 26.77	5.9	232.3	4187	"	"	"	"	"	"	
	05:30	85° 47.12	03° 39.11	6.3	227.3	4187	"	"	"	"	"	"	



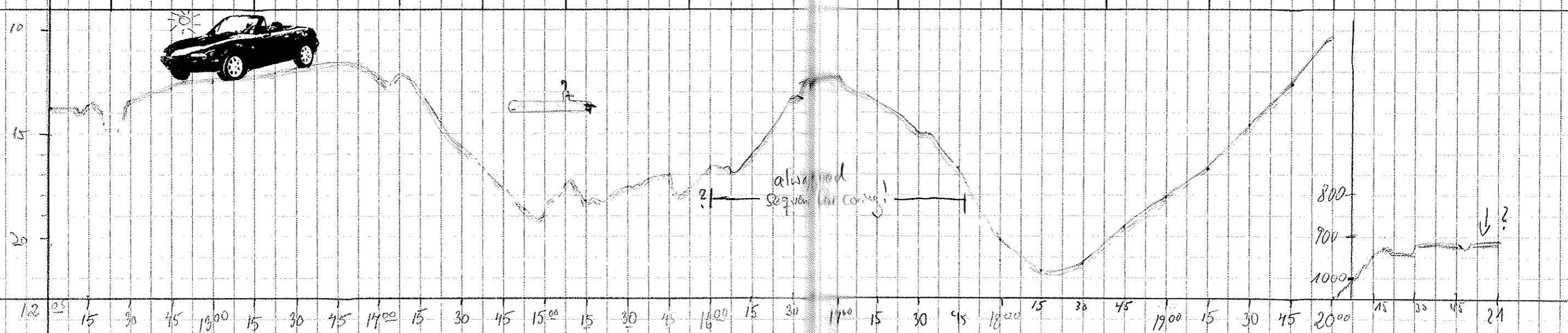
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Chart	Comments
14.08	05:45	85° 46' 07" N	040° 52' 58" W	5.5	206.6	4172	50-50	5000	200	4	4	Bergmann	
	06:00	85° 47' 50"	040° 27' 87" W	5.0	229.6	4176.1	"	"	"	"	"	"	
	06:15	85° 47' 18"	040° 21' 77" W	5.0	215.1	4179	"	"	"	"	"	"	
	06:30	85° 46' 90"	040° 39' 45" W	5.9	252.1	4196	0	"	"	"	"	"	
	06:45	85° 46' 24"	040° 53' 31" W	2.3	207.3	4197	5	"	"	"	"	"	
	07:00	85° 46' 93"	040° 32' 71" W	9.4	087.5	4210	5	"	"	"	"	"	LOOKING FOR A CORING STATION
	07:15	85° 46' 82"	040° 20' 96" W	11.5	355.9	4163	30	"	"	"	"	"	RETURNING TO STATION
	07:30	85° 47' 16"	040° 14' 72"	5.0	125.1	4161	30	"	"	"	"	"	BACK ON THE PLATEAU
	07:45	85° 46' 48"	040° 07' 01"	4.4	120.3	4152	40	"	"	"	"	"	ON STATION
	08:30	85° 46' 14"	040° 03' 35" W	5	182.1	4154	40	"	"	5.5	"	Thiele	
	8:45	85° 46' 01" N	4° 08' 51" W	4	204.4	4155	50	"	"	5.5	2	Nonacast	
	15:26	85° 49' 79"	040° 23' 58"	8.1	257.7	4152	~50	5000	100	Frequency	4	Bergmann	Station bounded 15 S
	16:50	85° 49' 21"	040° 56' 58"	5.1	205.3	4178	~20	"	"	4	4	"	Recovery / Anomalous
	17:00	85° 49' 13"	050° 12' 58"	7.9	207.9	4203	10	"	"	"	"	"	Station bounded, STORAGE-DIV.
15.08	08:20	85° 37' 00"	007° 10' 30" W	6.6	255.8	4129	30	"	200	4	4	Thiele	
	08:30	85° 36' 29"	007° 19' 39"	4.1	205.1	4063	30	"	"	"	"	"	
	08:45	85° 35' 49"	007° 29' 31"	1.5	227.1	4074	30	"	"	"	"	"	
	09:00	85° 34' 72"	007° 35' 12"	3.3	200.9	3964	10	"	"	"	"	"	
	09:15	85° 34' 66"	007° 07' 74"	4.8	220.5	3853	10	"	"	"	"	"	
	09:30	85° 35' 68"	008° 02' 84"	6.8	207.1	4196	10	"	"	"	"	"	
	09:45	85° 35' 75"	008° 06' 50"	3.1	207	4195	"	"	"	"	"	"	
	10:00	85° 35' 21"	008° 29' 72"	7.5	170.1	4199	10	"	"	"	"	"	
	10:15	85° 34' 30"	007° 38' 99"	3.9	226.5	4202	5	"	"	"	"	"	
	10:30	85° 33' 61"	008° 49' 45"	5.2	270	4179	"	"	"	"	"	"	
	11:00	85° 33' 77"	009° 00' 82"	3.2	42.9	3661	0	"	"	"	"	"	
	11:15	85° 33' 91"	009° 04' 09"	0.3	80.9	3723	?	"	"	"	"	"	
	11:30	85° 33' 92"	009° 03' 26"	0.2	198.1	3720	?	"	"	"	"	"	
	15:26	85° 33' 73"	008° 50' 79"	0.2	87.9	3839	10-20	"	"	Frequency	4	Bergmann	Station bounded 17.56
	16:00	85° 33' 48"	008° 05' 25"	1.8	289.6	2831	?	"	"	5.5	6	"	
	16:15	85° 33' 31"	009° 01' 52"	3.7	242	3777	?	"	"	"	"	Schubert	
	16:30	85° 33' 13"	009° 11' 25"	5.5	214.8	3621	20	"	"	"	"	"	
	16:45	85° 31' 94"	009° 21' 17"	6.7	194.3	3486	30	"	"	"	"	"	
	19:00	85° 30' 54"	009° 33' 45"	5.2	190.9	3589	7	"	"	"	"	"	
	19:15	85° 29' 79"	009° 41' 69"	5.6	216.8	3908	?	"	"	"	"	"	
	19:30	85° 28' 80"	009° 53' 57"	5.8	258.3	3850	25	"	"	"	"	"	
	19:45	85° 28' 21"	10° 11' 12"	6.6	257.8	3929	40	"	"	"	"	"	
	20:00	85° 27' 85"	10° 30' 31"	4.3	276.3	3981	40	"	"	"	"	"	
	20:15	85° 27' 18"	10° 47' 45"	4.9	283.5	4005	25	"	"	"	"	"	



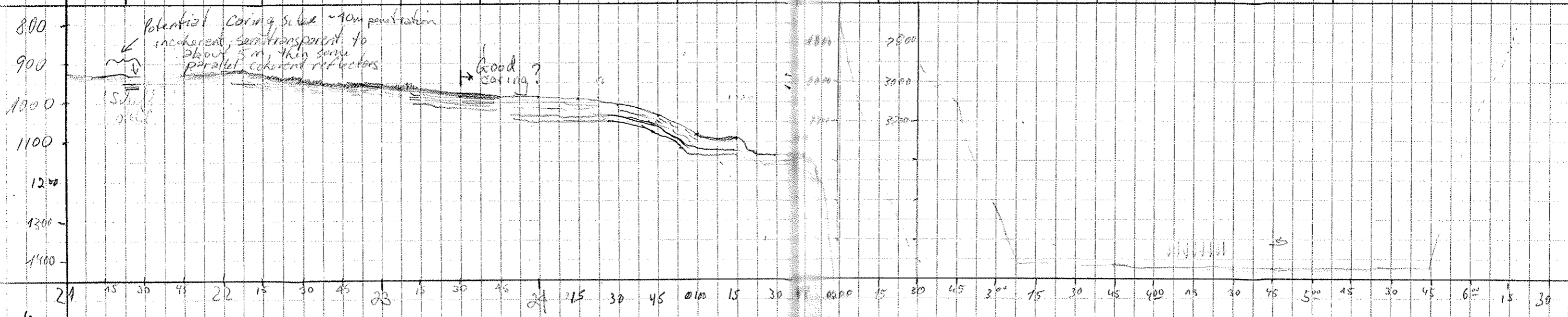
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
15.09	20:30	85° 26.96	110° 08.51	6.8	261.8	357.7		5000	200	4	4	Jolley	moving up too fast
	20:45	85° 27.02	110° 05.36	6.6	272.8	325.2		"	"	"	"	"	for any Record
	21:03	85° 26.81	110° 49.25	6.2	240.8	270.4		"	"	"	"	"	Para sound not working site
	20:10	85° 26.59	110° 52.73	1.6	237.1	242.5		"	"	"	"	"	
	20:15	85° 26.48	110° 54.37	1.1	213.7	208.6		"	"	"	"	"	
	20:30	85° 26.18	110° 54.32	.6	303.5	182.9	100	"	"	"	"	"	on station
16.9.	07:30	85° 25.81	110° 56.28	0.3	202.9	762.1	25-30	"	200	Frequency fast	4	Bequeman	
	4:40	85° 25.81' N	110° 53.32' W	0.3	121.8	1720	?	5000	200	5.5	4	WV	* Hyperbolic
	5:22	85° 25.41' N	110° 49.06' W	0.3	128.9	2125	?	"	"	"	"	"	
	6:37	85° 25.23' N	110° 47.22' W	1.3	164	2170		"	"	"	6	Kasson	
	6:46	85° 25.08' N	110° 52.09' W	6.0	290	1982		"	"	"	"	"	
	6:57:00	85° 24.40' N	120° 00.6' W	2.3	200	1373	0.20	"	"	"	"	Kasson	
	7:05	85° 23.9	120° 10.42' W	5.9	211	1360		"	"	5.5	4	"	
	7:18	85° 23.7	120° 10.82' W	6	224	1326	~10	"	"	"	"	"	
	7:30	85° 22.91	120° 23.36' W	6.6	264	1298	~5m	"	"	"	"	"	
	7:45	85° 22.51	120° 42.63' W	6.5	236	1231	20m	"	"	4	4	"	
	8:00	85° 21.32	120° 56.43	4.0	201	1200	40m	"	"	"	"	"	
	8:15	85° 20.71	130° 10.26	6.1	259	1171	1	"	"	"	"	Spillage	Restart PS 8:25
	8:30	85° 20.47	130° 27.99	5.4	276	1139	"	"	"	"	"	"	
	8:45	85° 20.46	130° 47.50	7.4	281	1106	"	"	"	"	"	"	
	9:00	85° 19.84	130° 54.67	6.8	167	1091	"	"	"	"	"	"	
	9:15	85° 19.75	130° 58.12	2.7	324	1088	"	"	"	"	"	"	9:25 on station
	20:57	85° 17.92	130° 44.07	0.3	162.6	1126	30-40m	"	"	Frequency fast	"	Bequeman	Station located 2:4
17.01	02:25	85° 16.74	130° 41.36	3.7	186.5	1133	70-90m	"	"	4	4	"	
	02:30	85° 16.71	130° 53.11	4.4	256.1	1100	20-30m	"	"	5.5	"	"	
	02:45	85° 16.89	130° 01.64	3.8	347.0	1089	"	"	"	4	"	"	
	03:00	85° 17.74	130° 58.88	5.2	340.4	1097	"	"	"	"	"	"	
	03:15	85° 18.66	130° 46.02	6.2	70.7	1126	"	"	"	"	"	"	
	03:30	85° 19.43	130° 37.46	4.9	46.2	1155	"	"	"	"	"	"	
	03:45	85° 19.02	130° 25.07	5.0	35.7	1169	30-40	"	"	"	"	"	
	04:00	85° 20.89	130° 16.55	5.8	41.3	1189	"	"	"	"	"	"	
	04:15	85° 21.54	120° 54.20	5.6	82.8	1231	"	"	"	"	"	Thied	
	04:30	85° 22.36	012° 43.95' W	5.5	49.5	1256	"	"	"	"	"	"	
	04:45	85° 22.91	012° 32.71	5.2	45.9	1277	"	"	"	"	"	"	
	05:00	85° 23.66	012° 21.80	4.4	51.5	1328	"	"	"	"	"	"	
	05:15	85° 24.46	012° 13.26	4.8	53.7	1366	"	"	"	"	"	"	
	05:30	85° 24.85	012° 00.98	4.4	54.6	1399	"	"	"	"	"	"	
	05:45	85° 25.11	011° 50.55	2.4	50.8	1204	"	"	"	"	"	"	
	06:00	85° 25.24	011° 50.20	5.2	226.7	2012	"	"	"	"	"	"	



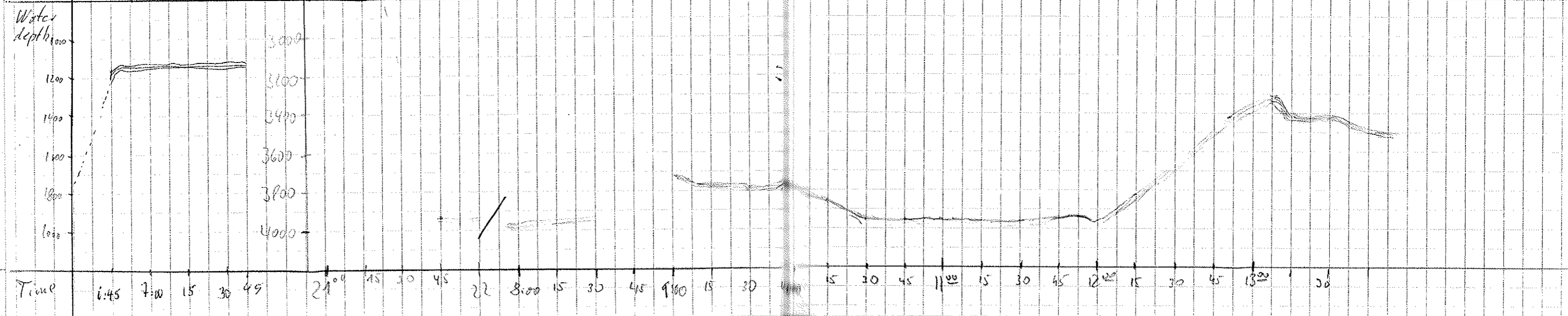
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
17.09	06:15												
	06:20	85° 25 36	012° 09 65	.9	67.7	1382	20	5000	200	4	4	TR-X	On station
	08:00												
	12:05	85° 24 99	12° 09 79	3.2	342.7	1386	"	"	"	"	4	GARD	LEAVING STATION
	12:15	85° 25 56	12° 11 34	5.3	271.5	1374	"	"	"	"	4	"	
	12:20	85° 25 34	12° 27 56	5.9	219.0	1345	"	"	"	5.5	8	"	
	12:45	85° 24 25	12° 40 98	6.2	250.3	1291	"	"	"	"	4	"	
	13:00	85° 23 91	12° 58 55	6.0	263.8	1249	30	"	"	"	4	"	
	13:15	85° 23 99	13° 16 96	6.3	297.9	1278	30	"	"	"	4	"	
	13:30	85° 23 85	13° 36 60	6.6	245.8	1190	"	"	"	"	6	"	
	13:45	85° 23 20	13° 54 53	6.7	255.7	1164	"	"	"	"	"	"	
	14:00	85° 22 80	14° 13 98	5.6	234.7	1235	20	"	"	"	"	"	
	14:15	85° 22 26	14° 27 85	5.2	223.1	1302	diffuse	"	"	"	"	"	COMPUTER ERROR, NO REGISTRATION AROUND 1340-1410
	14:30	85° 21 52	14° 41 45	1.8	295.3	1599	20	"	"	"	8	"	
	14:45	85° 22 29	14° 53 28	5.1	305.7	1755	20	"	"	"	6	"	
	15:00	85° 22 69	15° 07 57	5.1	297.2	1896	20-30	"	"	"	"	"	
	15:25	85° 22 64	15° 23 07	5.0	236.7	1780	20-30	"	"	"	8	"	
	15:30	85° 21 93	15° 38 39	6.6	246.8	1761	"	"	"	"	6	"	
	15:45	85° 21 26	15° 56 72	4.2	207.4	1700	"	"	"	"	"	"	
	16:00	85° 20 79	16° 00 89	6.7	263.9	1667	"	"	"	"	"	"	
	16:15	85° 20 70	16° 16 74	3.1	263	1608	30	"	"	"	"	"	
	16:29	85° 20 56	16° 32 07	6.1	279	1302	"	"	"	"	"	"	Bergsten
	16:45	85° 20 18	16° 45 71	2.2	244	1242	"	"	"	"	"	"	Sprellage
	17:00	85° 19 76	16° 56 50	5.9	293	1219	"	"	"	"	"	"	
	17:15	85° 20 04	17° 05 11	3.4	294	1359	"	"	"	"	"	"	
	17:30	85° 20 61	17° 17 90	5.3	260	1499	"	"	"	"	"	"	
	17:45	85° 19 72	17° 32 40	5.8	267	1668	"	"	"	"	"	"	fading record
	18:00	85° 19 92	17° 50 12	6.2	302.0	2010	20	"	"	"	"	GARD	
	18:15	85° 20 07	18° 02 41	3.8	204.4	2187	20-30	"	"	"	"	"	
	18:30	85° 19 44	18° 01 79	2.3	139.4	2136	"	"	"	"	"	"	
	18:45	85° 19 02	18° 49 97	2.6	157.3	1940	diffuse	"	"	"	"	"	
	19:00	85° 18 77	18° 45 11	0.2	112.8	1804	40	"	"	"	8	"	
	19:15	85° 18 27	19° 38 70	6.8	132.8	1625	diffuse	"	"	"	6	"	
	19:29	85° 17 35	19° 25 75	2.4	141.5	1455	30	"	"	"	"	"	
	19:45	85° 17 20	19° 16 32	6.8	123.1	1269	20	"	"	"	"	"	
	20:00	85° 16 53	19° 05 71	1.8	154.9	1040	20	"	"	"	"	FREDERICKS	
	20:15	85° 15 99	18° 53 13	6.1	134.8	947	10	"	"	"	"	"	
	20:30	85° 15 78	18° 47 25	5.3	123.8	930	15	"	"	"	"	"	
	20:45	85° 15 10	18° 39 73	4.1	157.4	928	20	"	"	"	"	"	
	21:00	85° 14 72	18° 34 44	2.9	95.2	921	25	"	"	"	"	"	



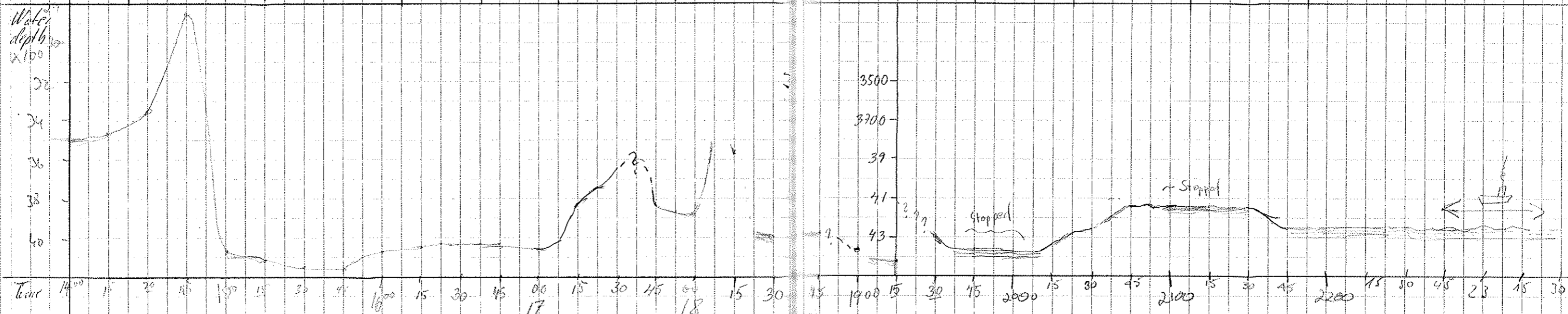
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pilcs	Name	Comments
17.9.91	21:15	85° 14.31	16° 30.08	.5	104.9	926	40	5000	200	14	4	FREDERIKS	Schiffahrt für 125
	21:30	85° 14.30	16° 29.06	.5	104.8	918	30	"	"	"	"	"	ca 120 min
	21:45	85° 14.19	16° 26.10	5.3	109.1	926	35	"	"	"	"	"	Wauson Wg. Dredge Problem
	22:00	85° 13.55	16° 18.67	2.8	118.2	924 m	30	3000	"	"	"	MOSHER	
	22:17	85° 13.36	16° 08.46	6.6	109.1	936 m	20	5000	"	"	"	"	
	22:30	85° 13.03 N	15° 59.97 W	5.0	154.2	949 m	30	5000	"	"	"	"	GOOD PENETRATION
	22:45	85° 12.44 N	15° 47.80	3.1	115.9	950	40	"	"	"	"	"	ON PAPER RECORDS
	23:00	85° 11.96	15° 44.15	1.8	153.2	949	40	"	"	"	"	"	40m, PARALLEL
	23:16	85° 10.98	15° 33.11	5.9	99.4	960	50 m	"	"	"	"	"	REFLECTORS AT DEPTH
	23:30	85° 10.71	15° 28.2 W	0.2	100.5	965	50 m	"	"	"	"	"	
	23:45	85° 10.32	15° 18.65 W	3.0	140.8	975	50-60m	"	"	"	"	"	SLOWER SWIFT SPEED
	24:00	85° 10.03	15° 12.31	5.1	111.4	984	40	"	"	"	"	J. J. New	SHOWS GOOD SUB-BOTTOM
	00:15	85° 09.58	15° 01.62	2.1	103.7	990	40	"	"	"	"	"	TO 50 m
	00:30	85° 09.43	14° 50.96	3.6	112.8	1015	45	"	"	"	"	"	
	00:45	85° 08.77	14° 39.83	6.8	129.3	1042	40	"	"	"	"	"	
	01:00	85° 07.93	14° 23.85	5.9	140.6	1083	42	"	"	"	"	"	
	01:15	85° 06.94	14° 26.43	6.1	150.7	1091	40	"	"	"	"	"	
	01:30	85° 06.64	14° 16.59	4.7	44.4	1132	23	"	"	"	"	"	
	01:45	85° 06.04	14° 09.12	5.3	174.6	1145	38	"	"	"	"	"	
	02:00	85° 05.26	14° 00.57	6.3	66.7	1203	?	"	"	5.5	5	Bergmann	
	02:15	85° 05.52	13° 57.29	3.1	112.8	2454	?	"	"	"	"	"	No records: stop ??
	02:30	85° 05.28	13° 46.84	2.4	113.8	2900	?	"	"	"	"	"	
	02:45	85° 04.92	13° 36.44	1.7	127.2	3000	?	"	"	"	"	"	
	03:00	85° 04.63	13° 29.87	0.6	110.9	3025	?	"	"	"	"	"	
	03:15	85° 04.24	13° 18.97	1.4	79.3	3935	20-30	"	"	"	"	"	Record on
	03:30	85° 04.22	13° 15.25	2.4	96.2	3937	20-30	"	"	"	"	"	
	03:45	85° 04.33	13° 05.07	6.6	88.8	3937	4	"	"	"	"	"	
	04:00	85° 03.94 N	12° 54.76 W	6.2	118.4	3940	20-30m	6000	200	4	4	No. 4	
	04:15	85° 03.34 N	12° 51.26 W	3.1	134.2	3938	?	"	"	"	"	"	
	4:30	85° 02.85 N	12° 48.90 W	2.0	168.6	3939	30-40m	"	"	"	"	"	
	4:45	85° 02.76 N	12° 50.83 W	2.2	44.5	3939	?	"	"	"	"	"	Wahf Marsch!
	5:00	85° 03.48 N	12° 55.46 W	4.6	310.5	3934	?	"	"	"	"	"	
	5:15	85° 04.09 N	13° 04.16 W	3.7	291.0	3939	?	"	"	"	"	"	
	5:30	85° 04.05 N	13° 13.37 W	0.8	293.8	3936	?	"	"	"	"	"	
	5:45	85° 04.54 N	13° 24.89 W	4.2	308.4	3800	?	"	"	5.5	8	"	Storage off: no "step sloup" reflections
	6:00	85° 04.84 N	13° 36.39 W	3.7	297.2	3296	?	"	"	"	"	"	
	6:15	85° 05.22 N	13° 47.40 W	5.3	297	2820	?	"	"	"	"	Kasson	
	6:30	85° 05.25 N	14° 00.64	2.9	309	1763	?	"	"	"	"	"	



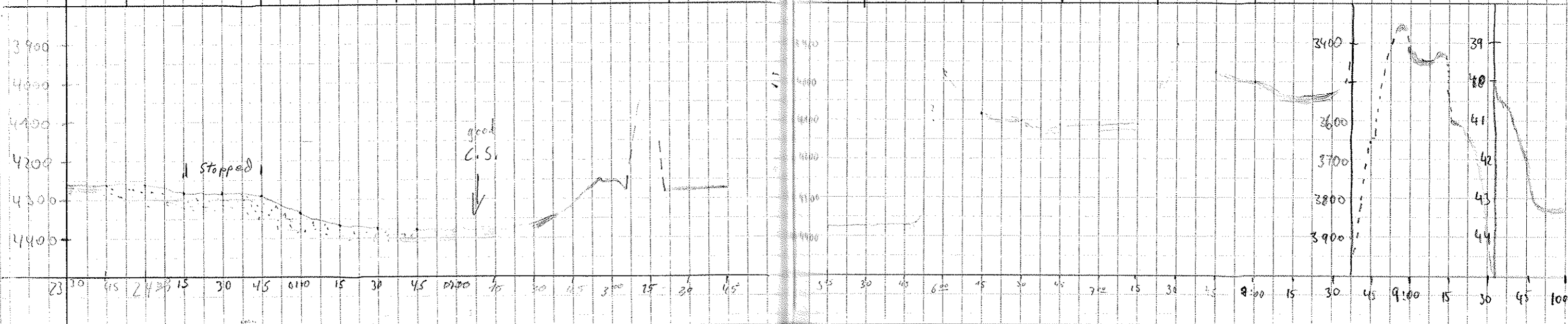
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
18.9.91	6:45	85° 05.93 N	140° 05.28 W	5.1	340	1159	2	5000	200	5.5	8	Kascons	Fehler auf Rechner
	6:50					1157	20	"	"	4	4	"	keine Aufzeichnung
	07:45	85° 06.47	141° 23.04	0.1	350	1111	40	"	"	4	4	Bergmann	Geo. für Station
	14:18	85° 05.82	149° 24.87	0.1	143.8	1111	30	"	100	Frequency	4	"	Backup 1900 A.R.K. 226
19.09.91	11:30	85° 03.84	149° 07.53	0.3	162.0	2557	?	"	500	5	6	"	Papierprotokoll Bolle 2
	21:03	85° 04.71	143° 58.23	4.3	77.7	?	?	5000	200	5.5	8	FREUDERIKS	Leaving station
	21:15	85° 04.59	143° 50.08	1.6	105.5	?	?	"	"	"	"	"	No registration
	21:30	85° 04.33	143° 36.48	5.2	77.6	?	?	"	"	"	"	"	"
	21:45	85° 04.53	143° 23.48	2.7	88.3	3935	15-20	"	"	4	4	"	Registration, Vorwärts Schweiß
	22:00	85° 04.42	143° 17.00	5.0	119.6	3937	25-30	"	"	4	4	"	"
	22:15	85° 03.60 N	143° 04.14	5.0	109.7	3938	35-40	"	"	4	4	MOSTER	"
	22:30	85° 03.25 N	143° 00.43 W	2.4	217	3938	35	"	"	"	"	"	COMING ON TO STATION
19.09.91	22:35	85° 03.15 N	143° 01.86 W	1.7	249.7	3938	11	"	"	"	"	"	ON STATION
20.09.91	7:45	85° 04.18 N	139° 10.07 W	1.2	44	3938	2-40	"	"	"	1	Kascons	"
	8:00	85° 04.17 N	139° 01.20 W	2	87	3936	"	"	"	"	4	"	"
	8:15	85° 04.25	120° 47.12	2.7	157	3936	20-30	"	"	"	4	Sprethage	"
	8:30	85° 03.81	120° 37.77	4.8	93	3926	10-20	"	"	"	"	"	no record
	8:40	85° 03.81	120° 30.52	2.3	165	3675	—	"	"	5.5	"	"	no record
	8:45	85° 03.66	120° 28.32	3.9	118	3671	—	"	"	4	"	"	no record
	9:01	85° 03.15	120° 19.57	7.3	93	3606	—	"	"	5.5	6	"	"
	9:15	85° 02.92	120° 07.91	1.1	101	3763	20-30	"	"	"	"	"	"
	9:30	85° 02.79	120° 05.11	3.8	150	3775	"	"	"	"	"	"	"
	9:45	85° 02.94	120° 01.06	2.2	104	3750	"	"	"	"	"	"	"
10:00	85° 02.53	110° 53.56	127	3795	—	"	"	"	"	"	"	"	"
	9:15	85° 03.18	110° 50.19	3.4	36.5	3834	20-30	"	"	"	"	"	"
	9:30	85° 03.68	110° 37.62	4.3	150.4	3943	40	"	"	"	"	"	"
	9:45	85° 03.26	110° 31.21	5.5	96.5	3942	30-40	"	"	"	"	"	"
11:00	85° 03.69	110° 21.11	62.5	3942	30-40	"	"	"	"	"	"	"	"
	11:16	85° 03.45	110° 09.40	4.7	98.4	3940	30	"	"	4	"	"	"
	11:32	85° 03.33	110° 04.37	2.2	263.4	3942	30	"	"	6	"	"	"
	11:50	85° 02.97	10° 57.62	1.4	117.6	3919	20-30	"	"	"	"	"	"
	11:55	85° 02.84	10° 51.78	7.2	131.3	3935	30	"	"	"	6	"	"
12:00	85° 02.71	010 49.53 W	108.4	3932	20	"	"	"	"	"	4	Thiele	"
12:15	85° 02.15	010 34.19	120.5	0659	5	"	"	"	"	"	4	"	"
12:30	85° 01.16	010 29.85	138.6	0424	70	"	"	"	"	"	6	"	"
12:45	85° 00.95	010 18.24	170.6	0442	30	"	"	"	"	"	6	"	"
13:00	85° 01.00	010 09.46	184.5	0354	?	"	"	"	"	"	11	"	"
13:15	85° 00.87	009 54.16	162.6	0432	40	"	"	"	"	"	11	"	"
13:30	85° 01.05	009 48.41	153.2	0477	70	"	"	"	"	"	4	"	"
13:45	85° 01.45	009 37.44	169.5	0485	90	"	"	"	"	"	"	"	"



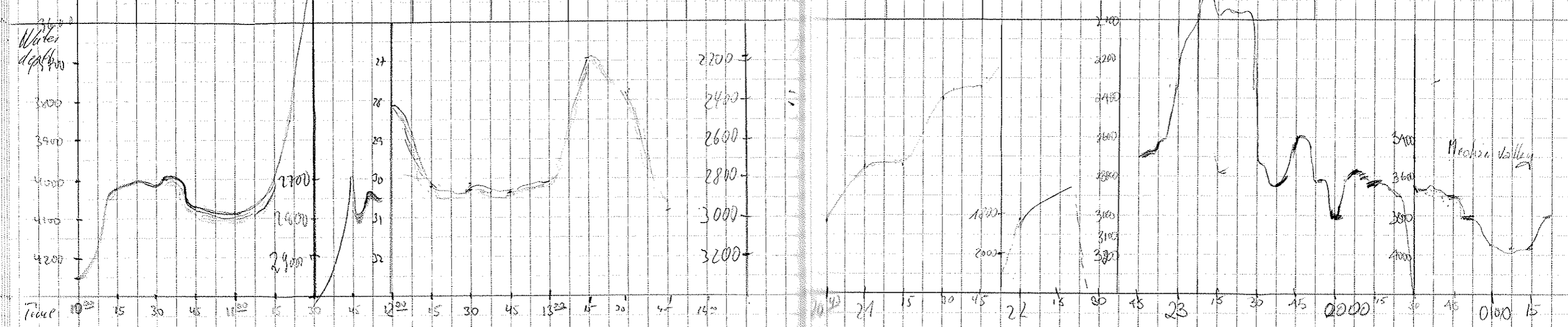
Date	Time	Lat. (N/S)	Long. (E/W)	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
20 09	14 ⁰⁰	85° 01.44	009° 37.55	4.1	812.9	3433	20	5000	2.00	4	4	Thick	Wait for OPEN
	14 ¹⁵	85° 01.10	009° 37.48	4.9	122.1	3464	"	"	"	"	"	Varren	
	14 ³⁰	85° 00.30	009° 37.35	4.9	102.2	3349	3	"	"	"	"	"	
	14 ⁴⁵	85° 00.33	009° 10.42	6.8	116.8	2927	?	"	"	"	"	"	No signal
	15 ⁰¹	84° 59.91	008° 51.91	3.7	95.4	4087	20	"	"	"	"	"	
	15 ¹⁵	84° 58.21	008° 43.02	6.3	115.5	4120	10	"	"	"	"	"	
	15 ³⁰	84° 57.10	008° 34.79	8.2	152.3	4154	45	"	"	"	"	"	Very hard bottom
	15 ⁴⁵	84° 58.60	008° 30.15	2.3	122.4	4154	1	"	"	"	"	"	
	16 ⁰⁰	84° 58.54	008° 22.04	6.0	78.1	4073	2	"	"	"	"	"	
	16 ¹⁵	84° 58.73	8° 07.13 W	2.1	86	4042	50 m	"	"	"	"	Burgstein	PS Restart 16 ¹⁵
	16 ³⁰	84° 58.49	7° 58.53 W	5.1	98	4041	45 m	"	"	"	"	"	good record of coring
	16 ⁴⁵	84° 58.36	7° 45.03 W	2.6	84	4042	40	"	"	"	"	"	"
	17 ⁰⁰	84° 58.57	7° 32.15 W	6.0	138	4041	40	"	"	"	"	"	"
	17 ¹⁵	84° 58.35	7° 21.84 W	1.1	94	3820	-	"	"	"	"	"	no record
	17 ³⁰	84° 58.02	7° 15.12 W	5.1	167	3750	?	"	"	5.5	4	"	poor record
	17 ⁴⁵	84° 57.33	7° 04.66 W	6.2	131	3825	30	"	"	"	"	"	
	18 ⁰⁰	84° 56.48	6° 50.14	6.6	118	3880	20	"	"	"	"	"	
	18 ¹⁵	84° 55.72	6° 34.57	5.5	114.2	3554	15-20	"	"	4	"	GARD	
	18 ³⁰	84° 54.40	6° 30.92	6.7	178.3	4000	20	"	"	"	"	"	false water depth ~ 18 ²⁰
	18 ⁴⁵	84° 53.06	6° 29.77	5.6	209.0	3992	no registration	"	"	5.5	"	"	
	19 ⁰⁰	84° 51.64	6° 38.74	6.9	237.3	4065	40-50	"	"	"	8	"	NOISY DATA
	19 ¹⁵	84° 50.88	6° 41.23	0.9	183.3	4111	30	"	"	4.5	4	"	
	19 ³⁰	84° 49.92	6° 37.58	6.4	139.8	4272	poor registration	"	"	4	8	"	NOISY DATA
	19 ⁴⁵	84° 48.92	6° 30.38	0.4	163.6	4373	40	"	"	4	4	"	
	20 ⁰⁰	84° 48.86 N	6° 29.93 W	0.2	2.5	4373	40	"	"	"	4	MOSHER	
	20 ¹⁵	84° 48.68 N	6° 34.46 W	3.4	265	4334	20-30	"	"	"	"	"	
	20 ³⁰	84° 48.62 N	6° 49.07 W	6.7	248.7	4257	5-10 m	"	"	"	"	"	scattered, incoherent
	20 ⁴⁵	84° 47.73 N	7° 03.72 W	6.8	208.7	4132	10 m	"	"	"	"	"	sub bottom
	21 ⁰⁰	84° 47.11 N	7° 03.34 W	1.2	186.8	4140	15 m	"	"	"	"	"	
	21 ¹⁵	84° 47.07 N	7° 03.47 W	0.2	4.6	4138	30 m	"	"	"	"	"	STOPPED
	21 ³⁰	84° 46.59	7° 00.68 W	0.1	159.7	4137	10 m	"	"	"	"	"	STOPPED
	21 ⁴⁵	84° 45.83 N	6° 56.31 W	4.5	171.9	4258	20-25	"	"	"	"	"	
	22 ⁰⁰	84° 45.70	6° 55.64	1.1	328.3	4261	~ 40 m	"	"	"	"	FREDERICKS	schiff nicht sichtbar
	22 ¹⁵	84° 45.73	6° 55.96	2	307.9	4260	"	"	"	"	"	"	Schiff steigt immer mehr
	22 ³⁰	84° 45.75	6° 56.39	2	313.5	4252	"	"	"	"	"	"	"
	22 ⁴⁵	84° 45.52	6° 54.81	1	215.2	4262	"	"	"	"	"	"	"
	23 ⁰⁰	84° 45.56	6° 55.52	2.0	167.9	4264	"	"	"	"	"	"	vorwärts & rückwärts
	23 ¹⁶	84° 45.70	6° 56.72	2	153.9	4260	"	"	"	"	"	"	"
	23 ³⁰	84° 45.62	6° 55.79	6	127.9	4263	"	"	"	"	"	"	"



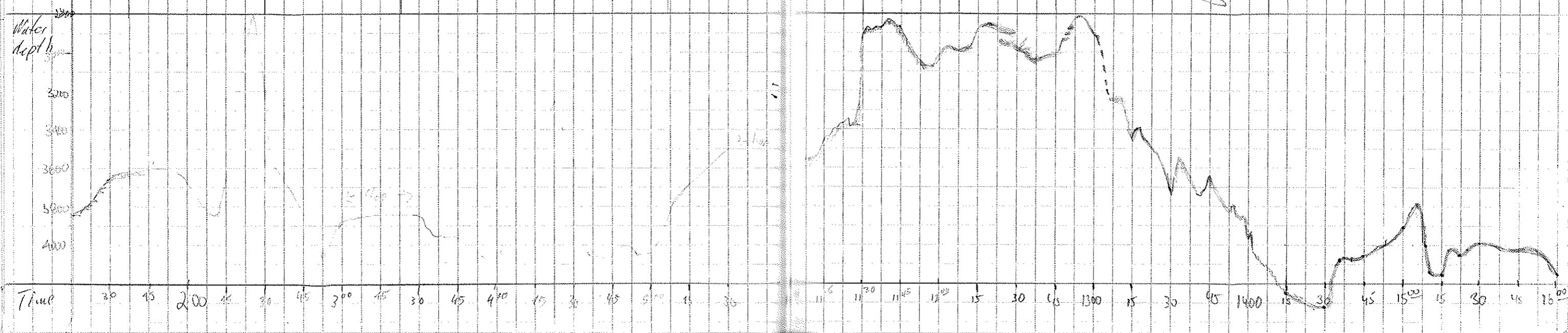
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of pulses	Name	Comments
20.9.	23:45	84° 45.69	6° 56.72	1.2	291.3	4263	35-40	5000	200	4	4	FREDERICKS	
	24:00	84° 45.63	6° 56.20	0.9	343.0	4262	40	"	"	"	"	Todrey	
21.09	00:15	84° 45.02	6° 52.50	6.1	176.0	4279	38	"	"	"	"	"	
	00:19											"	
	00:45	84° 44.88	6° 53.12	.3	327.8	4284	40	"	"	"	"	"	→ Stopped for 1/2 hour while
	01:00	84° 43.85	6° 56.05	5.3	203.2	4341	40	"	"	"	"	"	→ Deck makes repairs,
	01:15	84° 42.93	6° 52.31	1.6	140.8	4367	36	"	"	"	"	"	moving again, at 00:45
	01:30	84° 41.92	6° 44.88	4.2	142.2	4370	38-40	"	"	"	"	"	
	01:45	84° 41.10	6° 45.49	0.5	256.8	4370	38-40	"	"	"	"	"	
	02:00	84° 40.13	06° 46.07 W	0.9	221.2	4369	~40m	"	"	"	"	Reparations	
	02:10	84° 40.83	06° 47.79	6.7	149.1	4368	~40m	"	"	"	"	"	
	02:30	84° 39.88	06° 40.58	1.4	209	4363	"	"	"	"	"	"	
	02:45	84° 38.58	06° 44.07	5.4	152.0	4318	"	"	"	"	"	"	
	03:00	84° 37.76	06° 37.13	0.6	143.0	4259	25m	"	"	"	"	"	
	03:15	84° 37.28	06° 36.26	7.4	209.3	4254	"	"	"	"	"	"	
	03:30	84° 37.44	06° 47.46	3.4	324.1	4267	15m	"	"	"	"	"	
	03:45	84° 37.94	06° 42.77 W	0.4	343.0	4266	"	"	"	"	"	"	
22.9.81	05:10	84° 42.18' N	06° 28.17' W	0.7	49.1	4373	30m	5000	200	4	4	Nowacki	3rd Pass and subsequent ON STATION Backup ARK 827 geht los!
	5:15	84° 42.26' N	6° 27.05' W	3.4	79.5	4374	"	"	"	"	"	"	
	5:20	84° 41.89' N	6° 20.16' W	6.8	119.0	4374	"	"	"	"	"	"	
	5:45	84° 41.05' N	6° 07.54' W	8.5	128.1	4373	"	"	"	"	"	"	
	6:03	84° 39.75' N	5° 57.63' W	8.8	118.4	3975	"	"	"	5.5	8	"	26.00 Richter Newbr.
	6:15	84° 39.06' N	5° 48.6' W	9.3	38	4080	~20	"	"	"	"	Klassen	
	6:32	84° 38.68' N	5° 45.3' W	4.6	100	4101	~20	"	"	"	"	"	
	6:45	84° 38.4' N	5° 39.0' W	3.2	48.4	4111	~50m	"	"	4	4	Klassen	
	7:00	84° 37.4' N	5° 27.2' W	7	161	4111	~50m	"	"	"	"	"	
	7:15	84° 36.3' N	5° 17.2' W	6.9	200	4110	~50m	"	"	"	"	"	
	7:22	84° 34.6' N	5° 10.6' W	6.7	50	3900	~70m	"	"	5.5	6	"	
	7:46	84° 33.6' N	5° 10.8' W	4.1	213	3976	~10	"	"	"	"	"	
	8:00	84° 32.3' N	5° 13.0' W	7.2	165	4304	~20m	"	"	5.5	6	"	
	8:18	84° 30.44' N	5° 06.25' W	6.3	148	4041	20-30m	"	"	"	"	Spiegelberg	
	8:30	84° 29.93' N	4° 56.11' W	2.9	127	4032	"	"	"	"	"	"	
	8:45	84° 29.46' N	4° 47.57' W	6.7	151	3654	"	"	"	"	"	"	steep slope
	09:00	84° 28.92' N	4° 38.57' W	4.8	81	3423	0-30m	"	"	"	"	"	
	15	84° 29.81' N	4° 26.26' W	7.2	78	3485	"	"	"	"	"	"	
	30	84° 29.26' N	4° 10.59' W	5.8	117	3913	"	"	"	"	"	"	steep slope
	45	84° 28.69' N	3° 54.66' W	7.0	108	4199	"	"	"	"	"	"	
	10:03	84° 28.04' N	3° 38.06' W	5.4	132	4255	30	"	"	"	"	"	



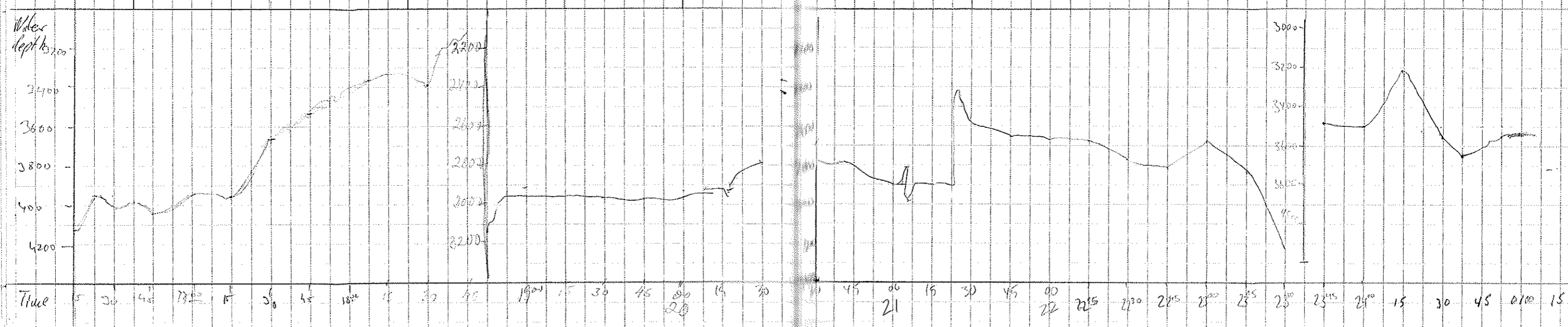
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
22.09.	10:15	84° 26.95	28° 31.69	2.2	210.9	4026	20-30	5000	250	5.5	6	Grober	
	30	84° 26.71	28° 31.39	6.0	142.8	4011	80-40	"	"	"	"	"	
	45	84° 24.64	28° 28.46	6.4	155.8	4075	20-30	"	"	"	"	"	
	11:00	84° 23.1' N	30° 27.47' W	6.9	184	4094	"	"	"	"	4?	Grober	
	11:17	84° 21.2	30° 27.2' W	6.3	141	3800	"	"	"	"	"	"	
	11:34	84° 20.4	30° 10.6' W	7	123	2700	"	"	"	"	"	"	
	11:46	84° 20' N	30° 1.85' W	4.6	128	2786	20	"	"	"	"	"	
	12:00	84° 19.5	002 54.48	7.0	141.4	2015	20	5000	200	4	4	Thred	
	12:16	84° 18.57	002 49.57	5.6	171.5	3028	30	"	"	"	"	"	
	12:30	84° 17.87	002 47.28	4.5	162.2	3025	20	"	"	"	"	"	
	12:45	84° 16.61	002 40.66	7.2	153.5	3042	20	"	"	"	"	"	
	13:01	84° 15.12	002 34.96	6.1	133.3	3009	20	"	"	"	"	"	
	13:15	84° 14.24	002 43.43	2.8	252.2	2672	20	"	"	"	"	"	
	13:30	84° 14.10	002 42.82	1.2	354.4	2771	20	"	"	"	"	"	
	13:45	84° 15.07	002 35.63	5.2	301.3	3079	15	"	"	"	"	"	
	14:00	84° 15.60	002 24.76	.6	32.4	3074	15	"	100	4	1	"	ON STATION
	14:15	84° 15.64	002 24.12	0.8	98.2	3071	15	"	"	4	1	Voron	
	14:29	84° 15.24	002 53.48	0.4	32.2	3085	15	"	100	4	"	"	
	14:42	84° 15.31	02 37.59	1.0	220.2	3068	~ 15	"	100	4	"	Boquann	Colifound water
	15:32	84° 15.95	002 38.53	0.4	286.2	3056	~ 15	"	"	"	"	Voron	
	16:19	84° 16.36	02 37.57	0.3	47.3	3077	~ 15	"	"	Frequency	4	Boquann	
	20:43	84° 16.95	2° 29.29 W	2.9	249.0	3031	?	"	"	"	4	FREDERICKS	LEWING STATION
	21:01	84° 16.12	2° 14.32	7.8	137.7	2767	20	"	"	5.5	8	"	Rough topography
	21:15	84° 15.13	2° 13.87	7.3	177.8	2769	11	"	"	"	"	"	
	21:30	84° 14.37	2° 09.80	10.9	168.4	2404	?	"	"	"	"	"	
	21:46	84° 12.95	2° 11.57	4.5	162.2	2348	?	"	"	"	"	"	
	22:00	84° 12.55	2° 05.06	1.1	89.3	1813	"	"	"	"	"	"	
	22:45	84° 11.398 N	1° 49.115 W	5.1	75.5	2695	10	"	"	5.5	8	MOSNER	
	23:00	84° 10.93 N	1° 35.63 W	5.0	110.7	2140	10 scatter	"	"	"	"	"	
	23:15	84° 10.36 N	1° 23.74 W	3.3	146.0	1986	5-10m	"	"	"	"	"	
	23:30	84° 09.53	1° 12.21 W	5.7	139.5	2419(?)	-	"	"	"	"	"	
23:0911	23:46	84° 08.14 N	1° 05.63 W	6.5	108.5	2604	-	"	"	"	"	"	
	24:00	84° 07.56	0° 53.40 W	6.5	113.1	2934	-	"	"	"	"	"	
	00:15	84° 06.67 N	0° 43.74 W	6.2	126.1	2809	10m	"	"	"	"	"	
	00:30	84° 06.20 N	0° 34.96 W	3.6	122.1	3651 (MS)	-	"	"	"	"	"	in Median Valley
	00:45	84° 05.58	0° 27.33 W	2.1	139.4	3703	Scattered	"	"	"	"	"	
	01:00	84° 05.07	0° 20.12 W	6.2	98.9	3944	"	"	"	"	"	"	
	01:15	84° 05.02	0° 14.60	5.3	126.5	3954	"	"	"	"	"	"	



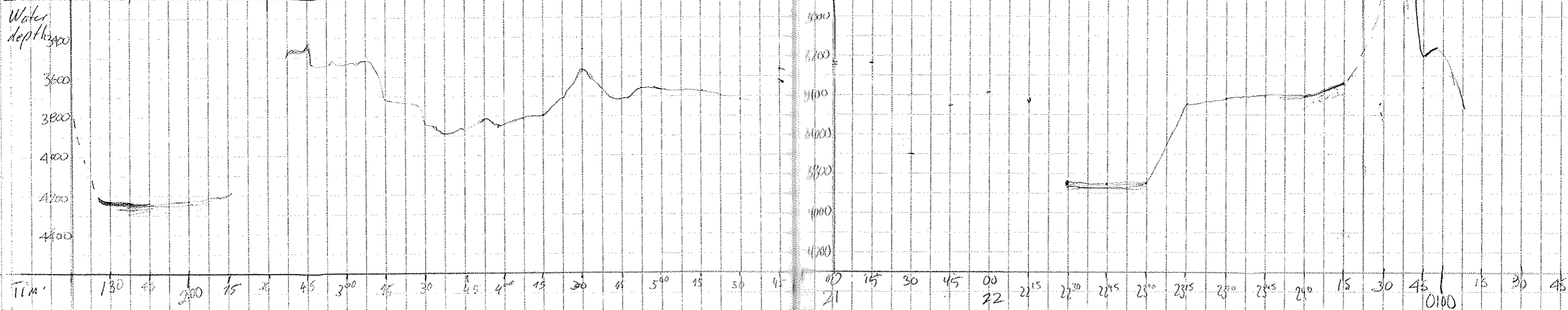
Date	Time	Lat. / Long.	Speed	Course	Wind	Temp	Pressure	Range	Scale	Frequency	# of Pulses	Name	Comments
23.07.91	0130	84° 03.56	5.2	119.3	3642	Scattered	5000	200	5.5	8	MOSHER	in Median Valley	
	0145	84° 02.98	2.7	170.4	3641	"	"	"	"	"	"	"	
	0200	84° 01.36	3.4	134.7	3636	"	"	"	"	"	"	Bergmann	
	0215	84° 01.80	6.2	151.7	3609	"	"	"	"	"	"	"	
	0230	83° 59.86	2.9	252.9	3889	"	"	"	"	"	"	"	
	0245	83° 59.58	4.8	254.9	3879	"	"	"	"	"	"	"	
	0300	83° 59.37	3.5	253.9	3866	"	"	"	"	"	"	"	
	0316	83° 58.38	1.0	246.2	3844	"	"	"	"	"	"	"	
	0332	83° 58.76	0.4	220.5	3850	"	"	"	"	"	"	"	
	0345	83° 57.99	2.2	216.2	3855	"	"	"	"	"	"	"	
	0400	83° 57.36	1.7	193.2	4009	"	"	"	"	"	"	"	
	0430	83° 57.09	5.1	350.1	3928	"	"	"	"	"	"	"	
	0445	83° 58.44	6.4	0.0	4236	"	"	"	"	"	"	"	
	0500	83° 58.62	4.4	70.2	4727	"	"	"	"	"	"	"	
	0515	83° 59.62	2.0	191	3895	"	"	"	"	"	"	"	
	0530	83° 59.50	0.1	2.5	3604	"	"	"	"	"	"	"	
	0545	84° 00.31' N	0.5	38.4	3683	"	500	200	"	"	"	Newman	
	1107	84° 02.1' N	7.6	43.7	3457	~30m	5000	200	5.5	8	MORAN	Leaving station.	
	1115	84° 03.5' N	5.2	67.6	3447	~30m	"	"	"	"	"	"	
	1130	84° 03.1' N	3.8	90.6	2902	<10°	"	"	"	"	"	"	
	1145	84° 02.63	7.2	105.2	2868	35-40	"	"	"	"	"	"	
	1200	84° 02.7' N	6.4	37.2	3006	~20	"	"	"	"	"	"	
	15	84° 03.20'	8.0	87.5	2859	30-40	"	"	"	"	"	"	
	30	84° 03.27'	5.0	33.0	2991	"	"	"	"	"	"	"	
	45	84° 04.13' N	3.6	28.0	2999	"	"	"	"	"	"	"	
	13:00	84° 05.07' N	6.7	256	2910	"	"	"	"	"	"	"	
	15	84° 05.87	6.5	294	3430	~20	"	"	"	"	"	"	
	30	84° 06.52	7.4	281	3709	"	"	"	"	"	"	"	
	45	84° 07.41' N	8.4	53	3662	30-40	"	"	"	"	"	"	
	14:00	84° 08.88' N	6.4	19	3979	"	"	"	"	"	"	"	
	14:15	84° 10.4' N	4.6	324	4234	"	"	"	"	"	"	"	
	30	84° 11.8	7.3	340	4266	"	"	"	"	"	"	"	
	45	84° 13.03	6.5	66.2	4018	"	"	"	"	"	"	"	
	15:00	84° 13.73	7.6	129.1	3904	"	"	"	"	"	"	"	
	10	84° 12.74	7.7	97.1	4156	"	"	"	"	"	"	"	
	15	84° 12.64	4.2	92.9	4173	"	"	"	"	"	"	"	
	30	84° 13.50	1.0	57.9	3945	"	"	"	"	"	"	"	
	40	84° 13.43	2.0	60.2	4014	"	"	"	"	"	"	"	
	47	84° 13.27	2.2	29.5	4016	"	"	"	"	"	"	"	
	16:00	84° 13.10	6.2	206.0	4155	"	"	"	"	"	"	"	



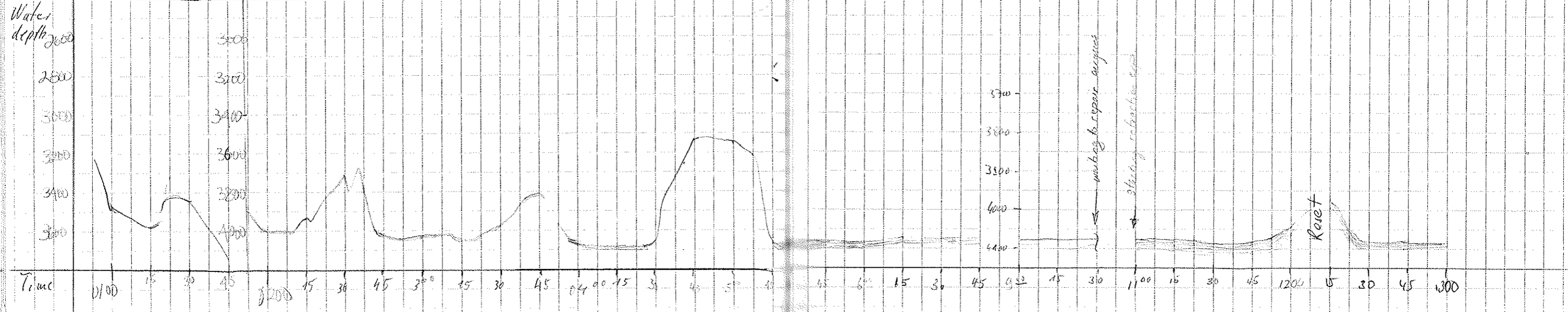
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
23.09.	16:15	84° 11' 74"	000 34 82 E	5.7	204.7	4100	?	5000	200	15.5	8	Ther...	
	16:25	84° 10' 54"	000 48 02 E	4.3	254	4015	20	"	"	"	"	"	
	16:45	84° 10' 12"	000 36 03 E	5.4	285	4032	20	"	"	"	"	"	
	17:00	84° 09' 27"	000 27 36 E	4.6	187	3964	"	"	"	"	"	"	
	17:15	84° 08' 26"	000 19 00 E	6.1	211.3	3938	"	"	"	"	"	"	
	17:30	84° 07' 46"	000 26 32 E	2.7	253	3669	"	"	"	"	"	"	
	17:45	84° 06' 24"	000 32 29 E	7.9	189.7	3525	"	"	"	"	"	"	
	18:00	84° 05' 13"	000 30 49 E	4	188.2	3360	"	"	"	"	"	"	
	18:15	84° 05' 23"	00° 30' 94 E	0.5	128	3349	40	"	"	"	"	Bergs...	
	18:30	84° 04' 11"	0° 30' 90 E	6.3	188	3376	?	"	"	"	"	"	
	18:45	84° 03' 05"	0° 26' 34 E	4.2	115	3154	?	"	"	"	"	"	
	19:00	84° 02' 52"	0° 28' 72 E	0.8	229	2959	40	"	"	"	"	"	Empty...
	19:15	84° 02' 58"	0° 29' 24 E	0.3	33	2954	7	"	"	"	"	"	
	19:30	84° 02' 52"	0° 29' 32 E	0.3	64	2956	30	"	"	"	"	"	
	19:45	84° 02' 10"	0° 30' 89 E	0.2	111	2968	20	"	"	"	"	"	
	20:00	84° 02' 74"	0° 30' 72 E	0.2	33	2965	?	"	"	"	"	"	
	20:15	84° 03' 02"	0° 30' 83 E	3.5	068.9	2913	20	"	"	"	"	BRASS	UNDER WAY
	20:30	84° 03' 53"	0° 48' 64 E	4.2	066.1	2787	20	"	"	"	"	"	
	20:45	84° 04' 16"	0° 58' 44 E	6.5	073.9	2785	30	"	"	"	"	"	
	21:00	84° 04' 11"	1° 13' 92 E	6.7	100.5	2902	20	"	"	"	"	"	
	21:15	84° 03' 51"	1° 28' 39 E	6.6	126.3	2909	"	"	"	"	"	"	
	21:30	84° 02' 61"	1° 41' 22 E	5.1	113.6	2577	"	"	"	"	"	"	
	21:45	84° 01' 42"	1° 47' 01 E	3.6	181.6	2654	"	"	"	"	"	"	
	22:00	84° 01' 10"	1° 44' 98 E	0.5	0164.9	2671	"	"	"	"	"	"	
	22:15	84° 00' 57"	1° 43' 20	0.3	147.5	2680	"	"	"	"	"	Water Sec	
	22:30	84° 00' 24"	1° 48' 86	5.1	156.3	2783	"	"	"	"	"	"	
	22:45	83° 59' 26"	1° 59' 69	5.6	185.3	2803	"	"	"	"	"	"	
	23:00	83° 58' 83"	2° 15' 89	4.3	127.6	2694	"	"	"	"	"	"	
	23:15	83° 58' 74"	2° 17' 68	3.9	100.3	2820	"	"	"	"	"	"	
	23:30	83° 57' 74"	2° 25' 14	5.9	147.0	3204	"	"	"	"	"	"	
	23:45	83° 56' 82"	2° 31' 16	3.7	131.3	3492	"	"	"	"	"	"	
	24:00	83° 55' 46"	2° 34' 60	6.7	119.0	3494	"	"	"	"	"	Tod Key	over Hill & dale slope post record
24.09	00:15	83° 55' 32"	2° 46' 32	6.9	101.4	3204							
	00:30	83° 55' 13"	3° 01' 07	5.5	142.0	3552	30-3						
	00:45	83° 54' 35"	3° 09' 95	2.5	103.5	3654	20						
	01:00	83° 53' 78"	3° 22' 55	6.9	123.1	3554							
	01:15	83° 52' 66 N	3° 30' 96 E	2.3	201.1	3957	No return	"	"	"	"	MOSHER	No Bottom return?



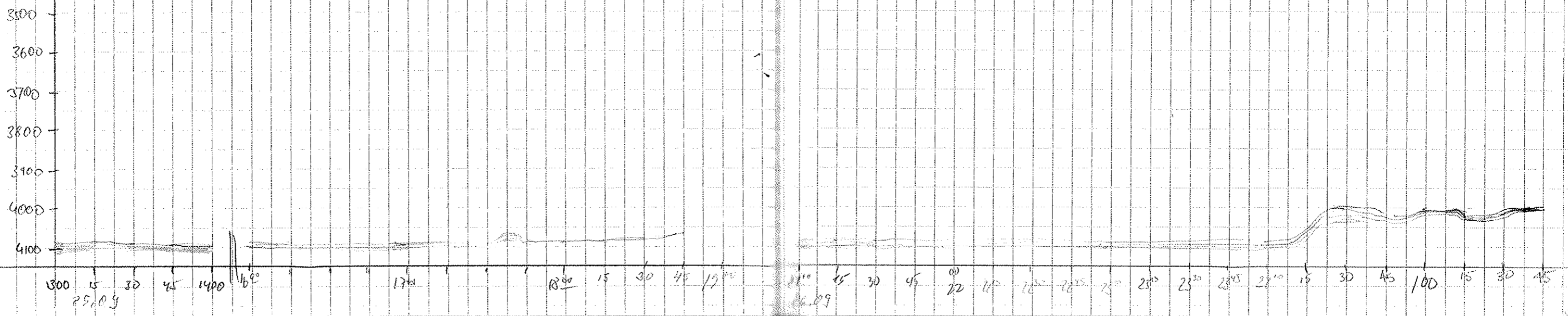
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
24.9.91	0130	83° 51.39	3° 35.36	5.9	191.6	4235	30 m	5000	200	5.5	8	MOSHER	143
	0145	83° 49.99	3° 32.15	6.1	195	4237	30 m	"	"	"	11	"	
	0200	83° 48.52	3° 30.200	6.0	176.5	4234	30 m	"	"	4.0	4	"	change frequency & no. of pulses
	0215	83° 47.30 N	3° 28.80 E	5.6	122.4	4238	30 m	"	"	"	4	Bergmann	
	0230	83° 47.39	3° 41.55	5.6	69.1	3754	"	"	"	"	9	"	
	0245	83° 46.88	3° 51.48	7.1	95.4	3933	"	"	"	"	6	"	
	0300	83° 45.56	3° 56.83	5.0	128.7	3565	"	"	"	"	4	"	
	0315	83° 44.90	4° 03.25	4.0	177	3730	"	"	"	"	4	"	
	0330	83° 43.92	4° 08.72	6.5	197.4	3840	"	"	"	5.5	4	"	
	0345	83° 42.96	4° 12.82	4.6	131.0	3876	"	"	"	"	4	"	
	0400	83° 41.30	4° 15.28	4.3	162.9	3850	"	"	"	4	4	"	
	0415	83° 40.97	4° 19.09	6.1	219.3	3799	"	"	"	"	4	Schubert	
	0430	83° 40.02	4° 24.45	3.3	451.9	3566	"	"	"	"	4	"	
	0445	83° 38.41	4° 26.15	6.8	183	3688	"	"	"	"	4	"	
	0500	83° 37.65	4° 29.87	0.2	137	3659	"	"	"	"	4	"	
	0515	83° 37.70	4° 29.76	0.5	83.3	3673	"	"	"	"	4	"	Arrived in
	0530	83° 38.17	4° 33.28	2.8	33.3	3720	"	"	"	"	4	"	Station 548
	0545	83° 38.20	4° 35.00	1.4	118	3723	"	"	"	"	4	"	
	0600											Kassens	
	0615											"	
	0630	83° 38.4	4° 35.9	1	7	20.4					4	Kassens	
	0645	83° 38.46 N	4° 38.04 E	0.1	81.5	3724	25	1000	200/50	4	4	Nowaczyk	
	0700	83° 38.68 N	4° 43.7 E	0.2	122.2	3542	60	1000	200	4	4	"	
	0715	83° 38.27	4° 52.78	0.7	255.6	2395	60	5000	200	4	4	Bergmann	Barbar ARK 828
	0730	83° 38.32	4° 53.72	3.3	215.3	3223	60	"	"	5.5	8	BRASS	ALL NOISE
	0745	83° 36.90	4° 47.14	10.5	198.9	3231	60	"	"	"	4	"	"
	0800	83° 35.37	4° 52.49	7.0	148.2	3700	60	"	"	"	4	"	"
	0815	83° 34.82	4° 47.98	5.0	245.0	3454	60	"	"	"	4	"	"
	0830	83° 34.90	4° 48.57	0.1	179.5	3386	60	"	"	"	4	"	"
	0845	83° 34.91	4° 48.72	0.1	93.4	3421	60	"	"	"	4	Kassens	
	0900	83° 34.57	4° 49.29	4.9	138.4	3547	60	"	"	"	4	"	
	0915	83° 34.09	4° 59.85	7.5	116.7	3866	20	"	"	4	5	"	
	0930	83° 33.49	5° 09.57	5.8	137.2	3862	20	"	"	4	4	"	
	0945	83° 32.63	5° 11.24	0.7	171.2	3451	60	"	"	5.5	8	"	
	1000	83° 32.579	5° 11.31	0.1	18.7	3436	60	"	"	"	4	"	
	1015	83° 32.60	5° 11.63	0.2	90.8	3417	60	"	"	"	4	"	
25/9/91	0100	83° 32.60	05° 11.90	0.2	108.1	3407	60	5000	200	5.5	8	MOSHER	Stopped - stuck for 2 min
	0015	83° 32.30	05° 11.65	2.4	190.9	3340	504 silica	"	"	"	4	"	
	0030	83° 31.75	05° 16.46 E	4.1	138.6	2790	2	"	"	"	4	"	
	0045	83° 30.97 N	5° 27.62 E	5.5	178.8	3210	NULL	"	"	"	4	"	



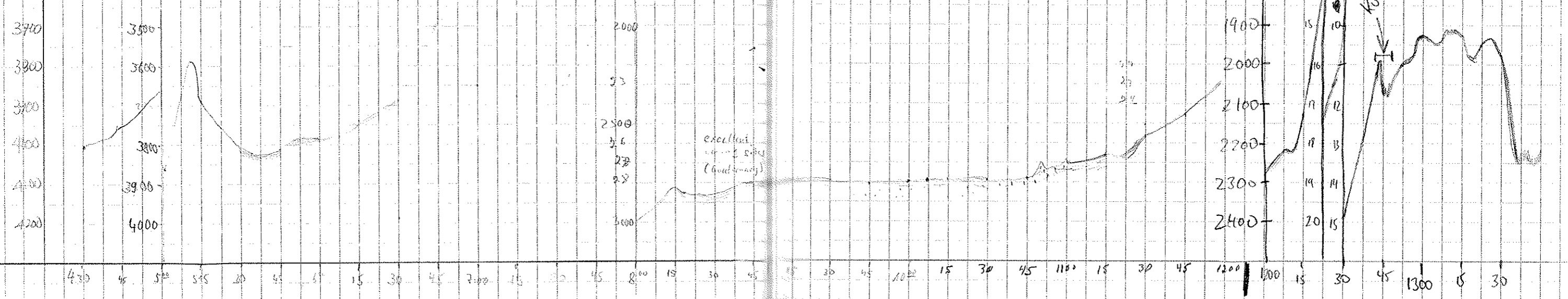
Date	Time	Lat/Lon	Longitude	Speed	Course	Water depth	Retractor	Buoy	Scale	Frequency	# of Pulses	Name	Comments	
25/9/91	0100	83° 30.87' N	05° 39.57' E	5.3	89.8	3547	7-10m	5000	200	5.5	4	MOSTER		
	0115	83° 30.35' N	05° 50.85' E	6.1	94.3	3573	10-15m	"	"	4	4	"		
	0130	83° 30.06' N	06° 04.26' E	6.0	112.4	3460	30m	"	"	"	11	"		
	0147	83° 29.25' N	06° 19.52' E	4.5	116.2	3752	40-50m	"	"	"	11	"		
	0202	83° 28.50' N	06° 29.11' E	5.0	115.6	3758	20m	"	"	"	11	"		
	0216	83° 27.85' N	06° 36.77' E	6.1	129.3	3891	/	5000	200	4	11	Ragnarsen		
	0230	83° 27.04' N	06° 44.77' E	6.5	121.9	3729	/	"	4	11	11	"		
	0245	83° 26.21' N	06° 56.07' E	6.9	75.1	4010	20m	"	4	11	11	"		
	0300	83° 26.68' N	07° 09.09' E	6.4	58.6	4036	"	"	4	11	11	"		
	0315	83° 26.73' N	07° 20.82' E	7.1	106.2	4045	"	"	4	11	11	"		
	0330	83° 26.49' N	07° 24.32' E	5.8	105.2	3876	15	"	4	11	4	"		
	0345	83° 25.83' N	07° 46.65' E	6.4	141.1	3807	15	"	4	11	11	"		
	0400	83° 24.52' N	07° 55.25' E	6.6	145.9	4087	20-25	"	4	11	11	"		
	0415	83° 23.23' N	08° 02.35' E	5.2	196.5	4087	30	"	"	11	"	Schindler		
	4:30	83° 21.99' N	08° 05.18' E	7.0	112.9	4063	/	"	"	"	"	"		
	4:45	83° 21.66' N	08° 18.62' E	4.5	95.2	3514	/	"	"	"	"	"		
	5:00	83° 21.56' N	08° 23.13' E	1.7	108.2	3551	/	"	"	"	"	"		
	5:15	83° 21.15' N	08° 30.77' E	7.6	112.2	4083	/	"	"	"	"	"		
	5:30	83° 19.91' N	08° 37.46' E	4.1	166.8	4087	40	"	"	"	"	"		
	5:45	83° 18.82' N	08° 40.72' E	6.4	188	4086	40	"	"	"	"	"		
	6:00	83° 17.35' N	08° 43.67' E	7.0	184.5	4085	40	"	"	"	"	"		
	6:15	83° 15.8' N	8° 40.4' E	2.9	227	4087	40	"	"	4	4	Kassens		
	6:30	83° 15.7' N	8° 34.3' E	2.3	315	4086	40	"	"	"	"	"		
	6:45	83° 15.7' N	8° 34.8' E	1		4085	40	"	"	"	"	"		
	8:00	83° 15.84' N	8° 31.71' E	0.0	213.1	4084	30-40	5000	50	5.5	2	Nonameyk	Station (for retractor set up)	
	9:05	83° 15.74' N	8° 34.59' E	1.7	145.5	4084	30-40	5000	200	4	11	"	handing for SW (in circles!)	
	9:20	83° 15.36' N	8° 33.57' E	1.3	211.5	4083	"	"	"	"	"	"		
	9:30	83° 15.25' N	8° 35.64' E	4.0	21.4	4083	"	"	"	"	"	"		
	9:45	83° 14.52' N	8° 31.25' E	1.1	176.7	4083	"	"	"	"	"	"	around and around and around and around	
	10:00	83° 15.22' N	8° 33.03' E	4.4	352.2	4083	"	"	"	"	"	"		
	10:15	83° 15.46' N	8° 34.52' E	0.5	192.7	4085	30-40	5000	200	4	4	MORAN	waiting for oxygen to be repaired. - they are broken!	
	10:30	83° 15.20' N	8° 32.18' E	0.2	152.3	4085	"	"	"	"	"	"		
	10:45	83° 15.21' N	8° 33.18' E	0.3	179.4	4083	"	"	"	"	"	"	underway @ 10:53	
	11:00	83° 14.45' N	8° 30.23' E	5.6	214.7	4083	"	"	"	"	"	"		
	11:15	83° 13.18' N	8° 23.01' E	5.5	211.2	4087	~40	"	"	"	"	"		
	11:30	83° 11.96' N	8° 22.26' E	6.5	161.6	4087	~40	"	"	"	"	"		
	11:45	83° 10.6' N	8° 21.4' E	5.8	155.1	4082	~40	"	"	11	"	"		
	12:00	83° 09.43' N	8° 24.74' E	5.0	261	4060	~20	"	6	"	"	Spiechage	Reset 12:08	
	12:17	83° 08.15' N	8° 13.20' E	6.5	218	3976	/	"	"	"	6	"	"	
	12:30	83° 07.29' N	8° 08.72' E	6.6	245	4083	30-40	"	"	"	"	"		
	12:45	83° 06.67' N	7° 59.79' E	5.2	203	4083	"	"	"	"	"	"		



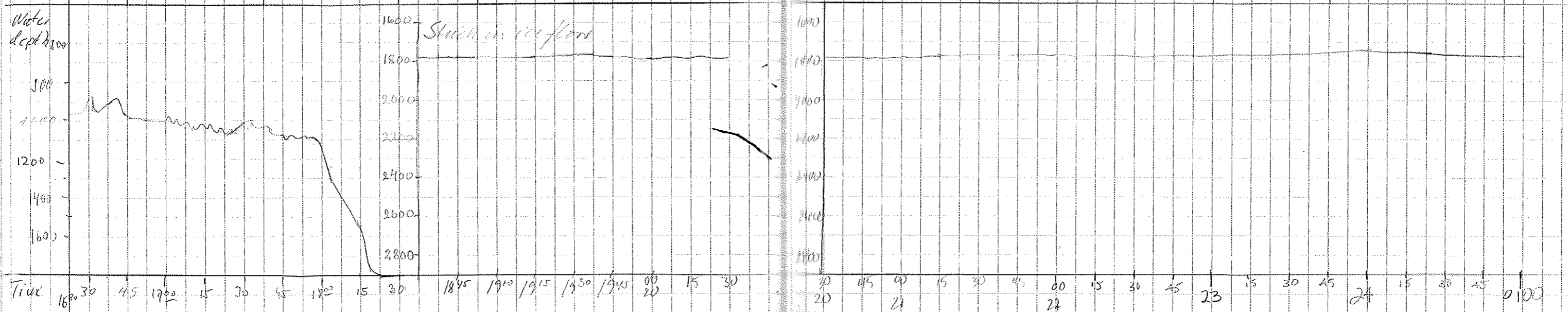
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
250991	13:00	83°05.72'N	7°51.42'E	7.6	233	4088	20-40	5006	200	4	6	Spielholz	
	15	83°05.21	7°47.49	6.6	255	4086	"	"	"	"	"	"	
	30	83°04.75	7°34.19	7.1	240	4088	"	"	"	"	"	"	
	45	83°03.68	7°34.94	4.0	168	4091	"	"	"	"	"	"	
		83°02.23	7°36.02	5.5	189	4090	"	"	"	"	"	"	
	13:44	82°02.17	07°36.75	0.5	257.7	"	"	"	"	"	"	Bergmann	Rain sound an land da Teile (Stücke in Profile) welch gezeichnet wurden kurze Station wenn die Korallen zu reparieren (Seismik) 16° streif nach verbaute Kehlmetall wird später weitergeführt Fehler kann nicht beheben weil...
	16.15	83 04.67	007 39.31	5.3	96.2	4089	"	"	"	"	"	Thule	
	16.30	83 05.00	007 46.51	.7	20.2	4088	"	"	"	"	"	"	
	16.45	83 05.34	007 52.92	5.4	102.7	4088	"	"	"	"	"	"	
	17.02	83 06.31	008 01.21	7.5	44.4	4085	"	"	"	"	"	"	
	17.15	83 06.87	008 11.45	6.1	31.6	4087	"	"	"	"	"	"	
	17.30	83 07.98	008 21.62	8.8	69.4	4081	"	"	"	"	"	"	
	17.45	83 09.01	008 29.15	6.0	16.4	4086	"	"	"	"	"	"	
	18.00	83 10.04	008 27.68	6.7	333.4	4082	"	"	"	"	"	"	
	18.15	83°12.34	08°21.82 E:	6.2	32	4086	40	"	"	4	4	Bergsten	
	18.30	83°13.36	08°31.34 E:	5.9	38	4084	40	"	"	"	"	"	
	18.45	83°14.54	8°36.00 E:	2.3	8	4076	25	"	"	"	"	"	
	18.55	83°14.77	8°36.19 E:	0.6	28	4076	2	"	"	"	"	"	On station 185E
26.08	19.00	83° 13.09	08° 21.70 :	0.2	176.2	4089	40	"	"	Frequency	"	Bergmann	
	21.07	83° 10.60	08° 49.41 E	6.0	62.1	4055	"	"	"	4	4	Bergmann	heading station 209E
	21.15	83° 10.77	08° 50.43 E	6.7	110.4	4086	"	"	"	"	"	BRASS	
	21.30	83° 09.98	09° 02.35 E	4.5	109.0	4088	"	"	"	"	"	"	
	21.45	83° 08.82	09° 11.09 E	5.7	123.8	4087	"	"	"	"	"	"	
	22.00	83° 08.23	09° 11.16	0.2	231.7	4087	"	"	"	"	"	"	V.S. etc
	22.15	83° 07.33	09° 15.91	1.7	128.1	4087	"	"	"	"	"	"	
	22.30	83° 07.01	09° 23.34	3.7	133.4	4085	"	"	"	"	"	"	
	22.45	83° 06.54	09° 27.41	0.3	228.7	4085	"	"	"	"	"	"	
	23.00	83° 06.50	09° 27.32	0.2	219.7	4085	"	"	"	"	"	"	
	23.15	83° 06.44	09° 27.27	0.2	154.2	4085	"	"	"	"	"	"	
	23.30	83° 06.38	09° 27.27	0.3	167.2	4085	"	"	"	"	"	"	
	23.45	83° 05.53	09° 33.50	5.1	81.8	4089	"	"	"	"	"	"	
	24.00	83° 05.32N	09° 44.07 E	6.2	110.0	4077	20-40	5000	200	4	4	MOSHER	
	0032	83° 04.06	09° 56.38	0.4	173.6	3996	20m	"	"	"	"	"	
	0045	83° 03.9N	9° 52.44	3.5	140.8	4007	10m	"	"	"	"	"	
	0103	83° 03.51N	10° 01.69	0.4	123.9	3972	15m	"	"	"	"	"	1 mile to station coming on to station
	0115	83° 03.31	10° 04.40	3.9	128.5	4001	5m	"	"	"	"	"	
	0130	83° 02.87	10° 07.63	1.2	132.0	3996	10m	"	"	"	"	"	on station again!!
	0137	83° 02.84	10° 07.63	.3	203.1	3995	10-20m	"	"	"	"	"	ON STATION



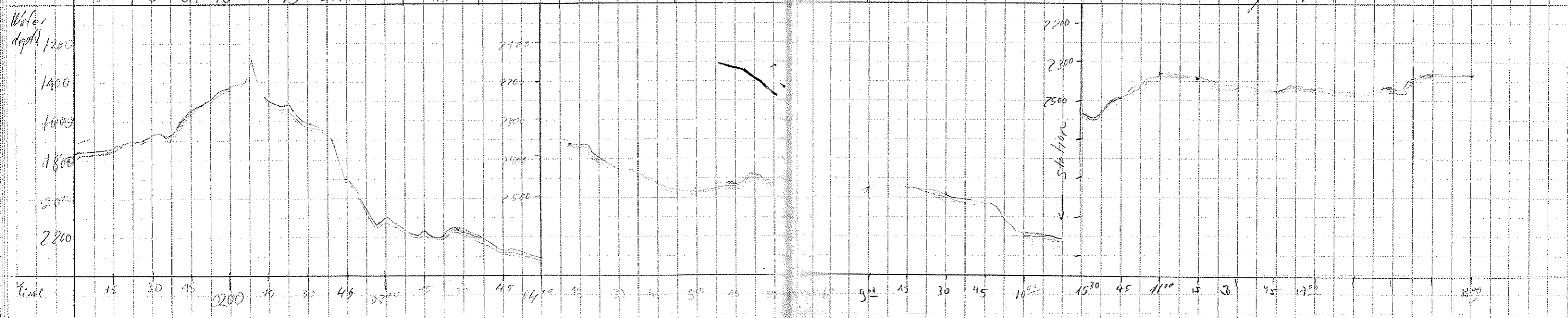
Date	Time	Latitude	Longitude	Speed	Course	Waterdepth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
27.9.91	8:15	82° 20.4' N	10° 30.2' E	0.3	248.1	3614	2	5000	200	5.5	5	Neuwerk	
	8:20	82° 10.8' N	10° 30.5' E	0.3	248.1	3554	3	"	"	"	"	"	
28.9.91	4:22	82° 51.21	9° 32.11	1.4	281.6	4004	30	"	200	4	4	Schubert	
	4:45	82° 52.37	9° 31.57	4.9	109.1	2944	1	"	"	"	"	"	
	5:00	82° 53.13	9° 42.14	6.2	128.9	3245	1	"	"	"	"	"	
	5:15	82° 58.02	10° 00.79	6.5	83.7	3627	1	"	"	"	"	"	
	5:30	82° 57.37	10° 17.96	6.5	145.8	3830	35	"	"	"	"	"	
	5:45	82° 56.26	10° 22.14	6.1	165.3	3811	20	"	"	"	"	"	
	6:00	82° 55.39	10° 29.15	6.5	109.1	3782	20	"	"	"	"	"	
	6:15	82° 55.14	10° 37.2	6.5	102	3726	220	"	"	"	"	"	Kassens
	6:30	82° 54.7	10° 50.3	6.6	146	3697	220	"	"	"	"	"	"
	6:45	82° 53.8	10° 58.9	6.3	156	3480	25	"	"	5.5	6	"	"
	7:00	82° 52.7	11° 03.6	1.2	136	3450	-	"	"	"	"	"	"
	7:15	82° 52.2	11° 11.5	4	96	3272	-	"	"	"	"	"	"
	7:30	82° 52.2	11° 23.0	5.7	92	3272	-	"	"	"	"	"	"
	7:45	82° 51.7	11° 32.7	6.5	158	3495	-	"	"	"	"	"	"
	8:00	82° 50.4' N	11° 41.1' E	6.2	115.3	2967	?	"	"	5.5	8	Neuwerk	
	8:20	82° 50.6' N	11° 52.8' E	6.8	110.0	2853	20m	"	"	4	4	"	
	8:30	82° 50.2' N	11° 53.5' E	5.7	145.3	2832	30m	"	"	"	"	"	
	8:45	82° 48.3' N	12° 06.0' E	5.8	144.5	2756	40m	"	"	"	"	"	excellent coring sites
	9:00	82° 47.3' N	12° 14.4' E	5.5	87.3	2758	30	"	"	"	"	"	Beaufort ARK 828
	9:15	82° 47.5' N	12° 16.7' E	0.4	232.3	2804	30	"	"	"	"	"	NAV 415 2705 and 01816
	9:30	82° 47.0' N	12° 18.7' E	5.6	183.8	2754	"	"	"	"	"	"	Neustart PARADIGMA 3.48
	9:45	82° 46.3' N	12° 15.5' E	0.4	264.7	2802	"	"	"	"	"	"	
	10:00	82° 46.39	12° 18.25	7.3	151.7	2799	25	"	"	"	"	Jodney	
	10:15	82° 46.14	12° 18.82	1.5	290.0	2798	30	"	"	"	"	"	Thick ice heavy
	10:30	82° 46.09	12° 18.21	4.8	135.9	2796	30	"	"	"	"	"	going. Start & Stop
	10:45	82° 06.43	12° 17.54	11.0	150.5	2794	25	"	"	"	"	"	Backing up!
	11:00	82° 44.83	12° 38.24	3.9	80.2	2693	-	"	"	"	"	"	
	11:15	82° 44.67	12° 35.70	1.8	98.6	2655	40	"	"	"	"	"	
	11:30	82° 44.24	12° 46.92	6.3	94.9	2580	35	"	"	"	"	"	and where were you at
	11:45	82° 44.10	12° 59.09	5.1	94.2	2459	40	"	"	"	"	"	10:00!
	12:00	82° 43.52	13° 08.6	6.2	122.3	2270	20	"	"	"	"	"	
	15	82° 42.56	13° 20.46	6.8	133	2120	20	"	"	"	"	MOSIER	
	30	82° 41.38	13° 14.90	6.8	196	1480	20	"	"	5.5	"	Sprethox	
	45	82° 40.51	13° 17.27	6.5	63	1158	10-20	"	"	"	"	"	
	1:00	82° 39.58	13° 21.99	4.8	195	1030	"	"	"	"	"	"	
	15	82° 39.11	13° 19.49	3.0	61	1022	10	"	"	4.5	"	"	
	30	82° 40.28	13° 2.04	4.8	305	1072	"	"	"	4.4	"	"	
	45	82° 40.86	13° 12.82	4.7	231	1329	20-40	"	"	5.5	"	"	
	16:20	82° 39.22	13° 09.40	2.0	144.3	982	5	"	"	4	"	"	



Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of P. Cores	Name	Comments
28.9	16 39	82° 39' 03"	13° 06' 17"	6.5	117.5	353		1000	510-2040	14	4	Bergmann	
	16 45	82° 38' 88"	13° 13' 32"	5.0	117.6	389	5	5000	200	"	4	"	
	17 00	82° 38' 85"	13° 21' 95"	1.1	125.8	996	10	5000	200	"	"	Thiele	
	17 15	82° 38' 45"	13° 01' 15"	8.1	78.1	1014	5	"	"	"	"	"	
	17 30	82° 38' 18"	13° 41' 26"	6.6	137.4	1017	10	"	"	"	"	"	
	17 45	82° 37' 29"	13° 51' 29"	6.6	128.8	1036	5	"	"	"	"	"	
	18 00	82° 36' 13"	13° 58' 41" E	7.4	110	712.4	10	"	"	"	"	Bergsten	Stop to take up steamer
	18 15	82° 34' 96"	14° 07' 58" E	6.7	136	1536	5	"	"	"	"	"	"
	18 30	82° 34' 57"	14° 10' 07" E	0.2	275	1778	5	"	"	"	"	"	"
	18 45	82° 34' 61"	14° 07' 73" E	1.3	296	1795	5	"	"	"	"	"	"
	19 00	82° 34' 60"	14° 09' 03" E	2.4	301	1793	5	"	"	"	"	"	Stuck in ice front
	19 15	82° 34' 62"	14° 08' 46" E	1.8	301	1792	5	"	"	"	"	"	"
	19 30	82° 34' 62"	14° 08' 10" E	0.8	305	1792	5	"	"	"	"	"	"
	19 45	82° 34' 62"	14° 08' 10" E	1.4	307	1792	5	"	"	"	"	"	"
	20 00	82° 34' 65"	14° 07' 51" E	1.2	305	1790	5	"	"	"	"	BRASS	STILL STUCK
	20 15	82° 34' 63"	14° 07' 43"	2.0	314	1793	5	"	"	"	"	"	"
	20 30	82° 34' 60"	14° 07' 19"	0.6	304	1792	5	"	"	"	"	"	"
	20 45	82° 34' 61"	14° 06' 94"	1.4	132.6	1791	5	"	"	"	"	"	"
	21 00	82° 34' 65"	14° 06' 38"	3.9	136.0	1791	5	"	"	"	"	"	"
	21 15	82° 34' 28"	14° 07' 09"	8.2	166.3	1786	5	"	"	"	"	"	"
	21 30	82° 33' 46"	14° 03' 98"	0.9	165.2	1769	5	"	"	"	"	"	UNDER WAY = 21:12
	21 45	82° 33' 44"	14° 03' 63"	0.7	56.1	1769	5	"	"	"	"	"	"
	22 00	82° 33' 22"	14° 02' 90"	1.8	33.2	1765	5	"	"	"	"	"	"
	22 15	82° 33' 23"	14° 02' 18"	1.8	29.9	1764	5	"	"	"	"	"	"
	22 30	82° 33' 19"	14° 02' 05"	0.2	205.7	1764	5	"	"	"	"	"	"
	22 45	82° 33' 17"	14° 01' 85"	0.3	209.6	1763	5	"	"	"	"	"	"
	23 00	82° 33' 15"	14° 01' 71"	0.6	71.8	1762	5	"	"	"	"	"	"
	23 15	82° 33' 1	14° 01' 56"	0.5	23.5	1762	5	"	"	"	"	"	"
	23 30	82° 33' 04"	14° 01' 33"	0.7	27.1	1760	5	"	"	"	"	"	"
	23 45	82° 32' 77"	14° 01' 06"	0.7	24.6	1760	5	"	"	"	"	"	"
29/9/91	24 00	82° 32' 88" N	14° 00' 76" E	1.8	205.1	1759	5	5000	200	4	4	MOSNER	"STUCK" - moving slowly
	00 17	82° 32' 72"	14° 00' 15" E	2.0	204.7	1758	5	"	"	"	"	"	"
	00 33	82° 32' 45"	14° 00' 67" E	0.5	204.8	1757	5	"	"	"	"	"	"
	00 45	82° 32' 79"	14° 00' 37"	0.4	234	1756	5	"	"	"	"	"	"
	01 00	82° 32' 64"	13° 59' 98"	3.2	358	1756	5	"	"	"	"	"	"



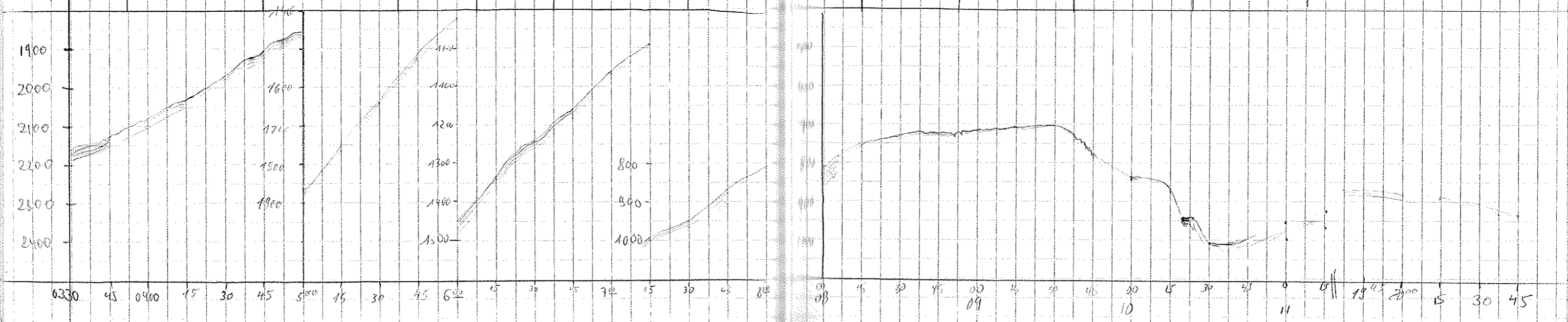
Date	Time	Lat. / Long.	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
29/9/91	0115	82° 32.03'N 13° 52.82'E	8.8	193.8	1248.9	15-10 m	5000	200	4	4	Mosher	Proceeding (0110)
	0130	82° 30.43'N 14° 05.74'E	6.4	118.7	1685	"	"	"	"	"	"	
	0150	82° 28.36'N 14° 19.26	8.9	184.4	1524	"	"	"	"	"	"	
	0200	82° 26.59	14.4	135.2	1458	20-30 m	"	"	"	"	Bergmann	
	0215	82° 25.40	15.1	142.6	1494	40 m	"	"	"	"	"	
	0231	82° 22.42	9.0	133.8	1686	"	"	"	"	"	"	
	0245	82° 20.05	14.9	189.7	1858	10 m	"	"	"	"	"	Falsch Name nach Beobachtung
	0300	82° 17.22	9.9	202.0	2109	20-30 m	"	"	"	"	"	
	0315	82° 15.88	3.5	164.9	2201	30-40 m	"	"	"	"	"	
	0330	82° 14.92	5.9	181.5	2162	30-40 m	"	"	"	"	"	
	0345	82° 13.74	6.2	149.6	2277	"	"	"	"	"	"	
	0400	82° 13.25	3.3	133.1	2307	"	"	"	"	"	"	
	0415	82° 11.65	3.0	152.1	2362	30	"	"	"	"	Schubert	
	0430	82° 10.31	7.4	155.3	2426	30	"	"	"	"	"	
	0445	82° 09.086	5.9	150	2459	35	"	"	"	"	"	
	0500	82° 07.86	8.1	147.9	2472	30	"	"	"	"	"	
	0515	82° 06.04	4.8	128.3	2464	30	"	"	"	"	"	
	0530	82° 05.25	0.6	290.2	2459	/	"	"	"	"	"	
	0545	82° 05.16	1.2	117.7	2430	/	"	"	"	"	"	
	0615	82° 02.77'N 15° 44.55'E	6.9	115.5	2620	40	"	"	"	"	Kecens	Vorwärts, rückwärts, schräg links und 1 und 2
	0715	82° 01.4'N 15° 40.4'E	0.4	252.0	2584	40	5000	50	4	1	Nomaczyk	
	0805	82° 01.3'N 15° 38.4'E	0.5	255.2	2542	40	5000	100	4	4	1	
	0835	82° 01.1'N 15° 38.4'E	0.4	"	"	"	5000	200	4	4	1	
	0910	82° 01.2'N 15° 35.6'E	2.1	285	2484	"	5000	200	5.5	4	1	
	0920	82° 01.2'N 15° 38.8'E	2.1	93.6	2478	"	5000	200	5.5	4	1	
	0930	82° 01.5'N 15° 35.2'E	4.5	354.6	2513	30	"	"	4	4		
	1000	82° 02.7'N 15° 48.1'E	10.0	8.1	2627	40	6000	200	4	4	1	
	1015	82° 04.0'N 15° 51.2'E	5.2	325.2	2600	40	5000	200	4	4	Morant	coming onto station
	1020	82° 04.3'N 15° 53.7'E	1.5	64.8	2408	"	"	"	"	"	"	on station
	1224	82° 04.04'N 15° 47.83'E	0.3	244.6	2512	40	"	"	Frequency test	4	Bergmann	14-15 Barbap
	1520	82° 03.76	2.2	116.2	2480	"	"	"	"	4	"	ARK 830
	1545	82° 01.51	8.3	172.2	2485	"	"	"	"	"	Geri	Station beendet
	1600	82° 00.75	5.9	196.1	2378	"	"	"	"	"	Thede	
	1615	81° 59.73	3.4	127.4	2396	"	"	"	"	"	"	
	1630	81° 59.42	3.1	198.3	2438	"	"	"	"	"	"	
	1645	81° 58.70	3.6	311.3	2473	"	"	"	"	"	"	
	1700	81° 58.26	3.4	29.1	2455	"	"	"	"	"	"	
	1715	81° 58.29	0.2	214.2	2554	"	"	"	"	"	"	
	1730	81° 58.03	6.7	282.7	2418	"	"	"	"	"	"	
	1745	81° 57.97	3.4	217.4	2371	"	"	"	"	"	"	
	1800	81° 57.40	7.1	212	2344	"	"	"	"	"	Bergsten	



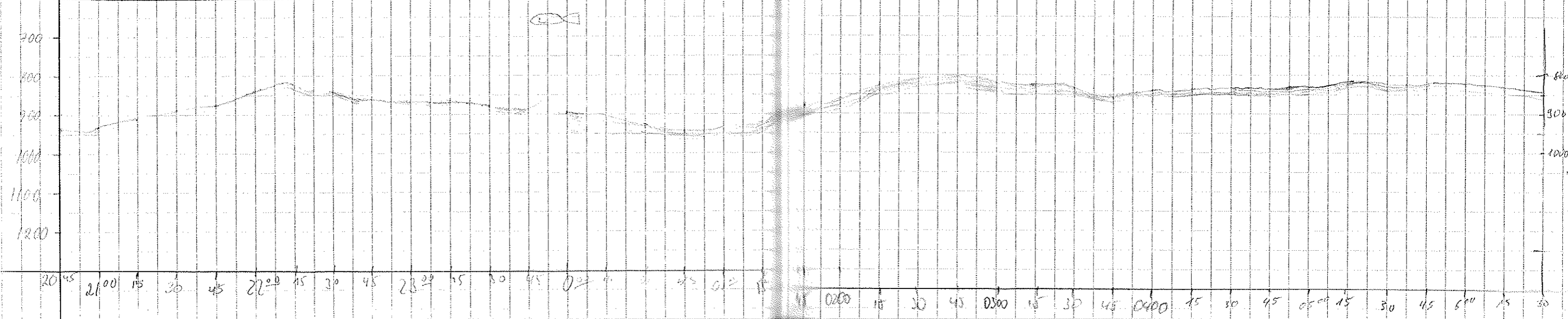
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
29.09.91	18 ¹⁵	81° 56.32	15° 00.25 E	8.5	147	2357	40	5000	200	4	4	Bergsten	
"	18 ³⁰	81° 55.25	14° 55.41	4.8	74	2324	40	"	"	"	"	"	
"	18 ⁴⁵	81° 54.11	14° 53.09	9.7	186	2274	35	"	"	"	"	"	
"	19 ⁰⁰	81° 52.87	14° 44.15	7.7	263	2103	35	"	"	"	"	"	
"	19 ¹⁶	81° 51.65	14° 23.83	7.7	814	2071	40	"	"	"	"	"	
"	19 ³⁰	81° 50.35	14° 16.45	7.7	222	2061	35	"	"	"	"	"	
"	19 ⁴⁵	81° 48.58	14° 03.42 E	10.9	223	2044	40	"	"	"	"	"	BRASS
"	20 ⁰⁰	81° 46.71	14° 08.08 E	9.1	089.5	2148	20	"	"	"	"	"	
"	20 ¹⁵	81° 45.34	14° 08.27 E	11.0	192.0	2269	20	"	"	"	"	"	
"	20 ³⁰	81° 43.60	14° 10.45 E	8.0	189.0	2301	5	"	"	"	"	"	
"	20 ⁴⁵	81° 41.73	14° 04.04 E	8.0	182.9	2372	5	"	"	"	"	"	
"	21 ⁰⁰	81° 40.55	14° 13.54 E	8.6	144.0	2412	1	"	"	"	"	"	
"	21 ¹⁵	81° 39.71	14° 21.55 E	8.0	119.4	2402	5	"	"	"	"	"	
"	21 ³⁰	81° 38.33	14° 25.05 E	4.4	320.9	2448	"	"	"	"	"	"	
"	21 ⁴⁵	81° 38.30	14° 24.92 E	5.2	158.3	2469	0	"	"	"	"	"	
"	22 ⁰⁰	81° 37.99	14° 20.57 E	7.0	129.3	2171	5	"	"	"	"	"	
"	22 ¹⁵	81° 37.3	14° 35.07	3.2	157.3	2550	"	"	"	"	"	"	
"	22 ³⁰	81° 37.3	14° 35.11	6.4	188.1	2551	"	"	"	"	"	"	
"	22 ⁴⁵	81° 35.07	14° 35.53	10.7	135.7	2582	"	"	"	"	"	"	
"	23 ⁰⁰	81° 33.59	14° 43.02	8.1	131.1	2628	"	"	"	"	"	"	
"	23 ¹⁵	81° 32.76	14° 53.46	5.6	121.7	2650	"	"	"	"	"	"	
"	23 ³⁰	81° 31.81	15° 06.11	11.0	93.3	2793	"	"	"	"	"	"	
"	23 ⁴⁵	81° 30.32	15° 05.23	10.0	816.1	2519	"	"	"	"	"	"	
30.09.91	00 ⁰⁰	81° 27.96	14° 59.21	7.1	215.2	2466	< 20m	5000	200	5.5	8	MORAN	Paper change - roll # 11
"	00 ¹⁵	81° 26.95	14° 59.96	3.9	181.3	2400	< 20m	"	"	5.5	8	"	rough sea floor
"	00 ³⁰	81° 26.09	14° 54.99	8.5	250.2	2403	20-25	"	"	"	"	"	
"	00 ⁴⁵	81° 24.95	14° 40.81	8.5	144.4	2324	N20	"	"	"	"	"	small "step" gully" here.
"	01 ⁰⁰	81° 23.40	14° 43.07	9.9	216.9	2274	N20	"	"	"	"	"	
"	01 ¹⁵	81° 21.23	14° 36.18	8.2	174.1	2216	N20	"	"	"	"	"	
"	01 ³⁰	81° 19.34	14° 31.15	10.3	221.9	1935	N10	"	"	"	"	"	
"	01 ⁴⁵	81° 17.56 N	14° 17.71 E	10.3	214.0	2281	210	"	"	"	"	"	poor data start
"	02 ⁰⁰	81° 15.77	14° 07.48	10.8	221	2242	10	"	"	4	4	Spillway	Down from here
"	15	81° 13.91	13° 56.79	9.1	226	2219	"	"	"	"	"	"	
"	30	81° 12.15	13° 44.53	10.1	227	2202	"	"	"	"	"	"	
"	45	81° 10.38	13° 32.04	10.7	227	2221	"	"	"	"	"	"	
"	03 ⁰⁰	81° 08.65	13° 19.76	10.4	227	2212	~40	"	"	"	"	"	good sequ. for coring
"	15	81° 06.85	13° 07.74	10.4	225	2193	"	"	"	"	"	"	
"	30	81° 05.00	12° 56.06	10.2	224	2159	"	"	"	"	"	"	



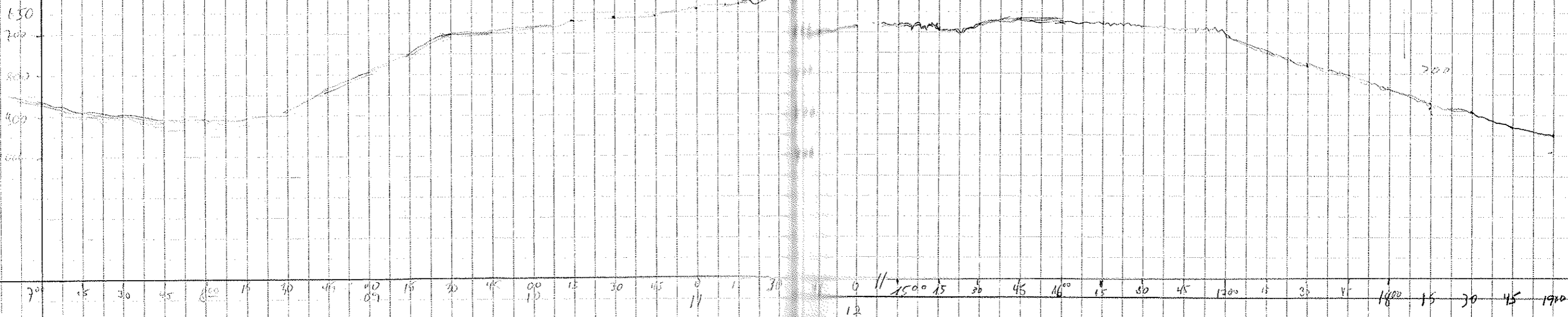
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
30.09.91	03:45	81°03'15"	12°44'50"	10.8	227	2123	~40	5000	200	4	4	Speilholz	
	04:00	81°01'30"	12°32'17"	10.8	225	2082	47	"	"	4	"	"	
	04:15	80°59'27"	12°22'31"	10.6	212.1	2032	"	"	"	4	"	Ba-guram	
	04:30	80°57'08"	12°11'11"	10.6	211.3	1968	"	"	"	4	4	"	2x Control x da Punkte
	04:45	80°55'04"	12°02'72"	10.5	226.2	1904	"	"	"	4	4	"	schlechte Affen der
	05:00	80°53'17"	11°52'05"	10.7	225.1	1860	"	"	"	4	4	"	Dat
	05:15	80°50'61"	11°52'76"	10.3	166.0	1750	70-90	"	"	"	4	"	"
	05:30	80°48'49"	11°54'05"	10.4	188.9	1649	30-40	"	"	"	4	"	"
	05:45	80°45'55"	11°52'63"	10.2	197.1	1526	"	"	"	"	4	"	"
	06:00	80°43'45" N	11°51'56" E	9.9	176.8	1436	41m	"	"	"	4	"	Nowozgk
	06:15	80°40'38" N	11°55'33" E	10.1	162.4	1337	30-40m	"	"	"	"	"	"
	06:30	80°38'35" N	11°45'37" E	10.2	237.1	1254	30-40m	"	"	"	"	"	"
	06:45	80°38'00" N	11°32'51" E	9.8	235.1	1165	30-40m	"	"	"	"	"	"
	07:00	80°36'44" N	11°18'17" E	10.5	231.0	1067	30-40m	"	"	"	"	"	"
	07:15	80°34'58" N	11°06'32" E	9.9	230.1	946	"	5000	"	"	"	"	Umschalten von Modus 5 auf 1
	07:30	80°33'55" N	10°54'47" E	10.3	238.6	850	40m	1000	200	4	4	"	Switch from Mode 5 to 1
	07:45	80°32'22" N	10°39'34" E	10.6	245.3	803	40m	1000	200	4	4	"	remember to shift the window
	08:00	80°31'24"	10°27'17" E	10.9	248.4	805	50m	1000	200	4	4	BRASS	at the DE5025 too!
	08:15	80°29'99"	10°12'00"	10.9	243.3	751	50	"	"	4	"	"	
	08:30	80°28'82"	09°57'70"	10.5	243.9	729	20	"	"	"	"	"	
	08:45	80°27'79"	09°44'73"	10.0	233.5	744	20	"	"	"	"	"	
	09:00	80°25'85"	09°29'54"	10.7	227.1	730	10	"	"	"	"	"	
	09:15	80°24'42"	09°20'39"	10.2	224.3	710	10	"	"	"	"	"	
	09:30	80°23'27"	09°09'11"	8.1	289.3	702	10	"	"	"	"	"	
	09:45	80°24'77"	08°58'33"	9.0	322.7	789	10	"	"	"	"	"	
	10:00	80°26'06"	08°52'71"	5.1	289.6	852	15	"	"	"	"	"	
	10:15	80°26'42"	08°49'20"	7.2	307.2	877	15	"	"	"	"	Manchester	
	10:30	80°27'77"	08°38'03"	5.2	323.2	1011	30	5000	"	"	"	"	changed to Mode 4 from Mode 1
	10:45	80°28'50"	08°28'32"	5.3	322.1	996	40	"	"	"	"	"	
	11:00	80°28'66"	08°20'42"	4.1	247.2	950	35	"	"	"	"	"	
	11:15	80°28'54"	08°13'72"	3.1	265.2	926	30	"	"	"	"	"	Back from 4 to 1
	11:20	80°28'48"	08°12'28"	0.6				"	"	"	"	"	- on station
	17:42	80°27'54"	8°00'82" E	1.0	318.9	865		1000	200	4	4	FREDERICKS	14:30 Backup ARK 837
	20:00	80°28'58"	8°00'16"	3.9	7.4	878		"	"	4	"	"	Stationsende 17:45
	20:15	80°29'11"	8°02'17" E	4.3	90.0	897	30	"	"	"	"	GARD	
	20:30	80°29'07"	8°02'43"	4.0	91.6	907	30-40	"	"	"	"	"	
	20:45	80°29'00"	8°13'40"	4.5	93.9	929	40	"	"	"	"	"	



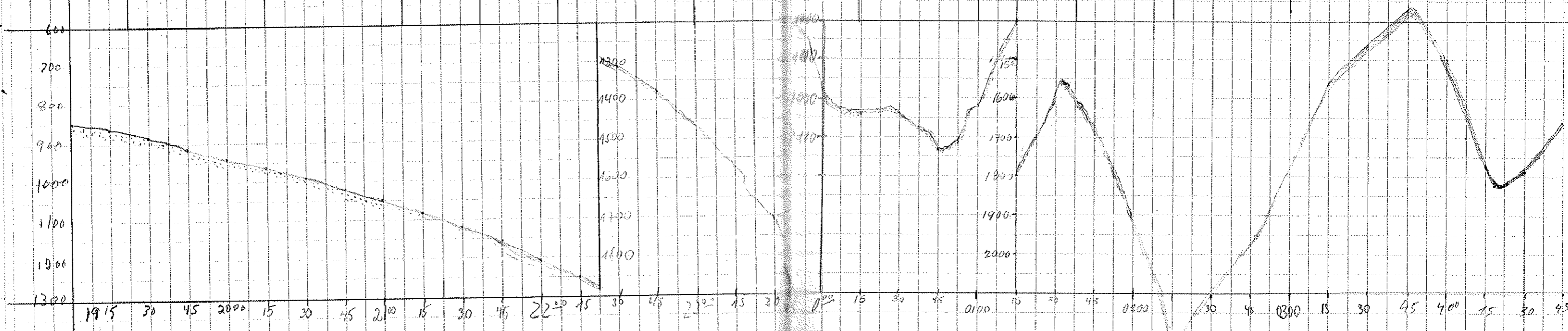
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
30.09.91	21 ⁰⁰	80° 28.26	7° 17.66	3.5	193.3	928	30-40	1000	200	4	4	GARD	
"	21 ¹⁵	80° 27.36	7° 18.64	3.0	192.6	912	30	"	"	"	"	"	
"	21 ³⁰	80° 26.97	7° 19.28	4.6	283.8	890	"	"	"	"	"	"	
"	21 ⁴⁵	80° 26.99	7° 19.18	4.2	270.3	866	20	"	"	"	"	"	
"	22 ⁰⁰	80° 27.01	7° 57.60	3.6	284.5	835	20	"	"	"	"	FRIEDRICH	
"	22 ¹⁵	80° 27.34	7° 54.70	3.1	27.3	848	15-20	"	"	"	"	"	
"	22 ³⁰	80° 28.27	7° 54.94	3.6	5.7	856	20	"	"	"	"	"	
"	22 ⁴⁵	80° 29.05	7° 54.90	4.4	6.5	863	20	"	"	"	"	"	
"	23 ⁰⁰	80° 29.63	7° 55.11	2.8	7.5	871	20	"	"	"	"	"	
"	23 ¹⁵	80° 29.90	7° 54.78	2.3	14.3	877	20	"	"	"	"	"	
"	23 ³⁰	80° 30.06	7° 56.69	3.2	104.9	887	20	"	"	"	"	"	
"	23 ⁴⁵	80° 29.93	8° 01.37	5.5	75.3	903	25	"	"	"	"	"	Why do we have ice?
"	24 ⁰⁰	80° 29.96	8° 05.51	1.0	76.0	920	40	"	"	4	4	MORAN	Why do we have ice?
1.10.91	00 ¹⁵	80° 29.99	8° 08.9	1.4	81.9	944	40	"	"	"	"	"	Aber sonst geht's uns gut?
"	00 ³⁰	80° 30.11	8° 13.01	3.1	84.8	944	40	"	"	"	"	"	Oh, diese Probleme!
"	01 ⁰⁰	80° 29.46	8° 19.12	3.9	91.6	939	40	"	"	"	"	"	
"	01 ¹⁵	80° 27.14	8° 19.01	3.9	188.3	929	40	"	"	"	"	"	
"	01 ³⁰	80° 26.11	8° 18.77	5.8	204.8	894	40	"	"	"	"	"	
"	01 ⁴⁵	80° 26.11	8° 20.			874	40	"	"	"	"	"	recal system
"	02 ⁰⁰	80° 26.12	8° 04.76	4.9	268	856	30	"	"	"	"	Spelling	
"	02 ¹⁵	80° 26.09	7° 58.53	5.8	271	823		"	"	"	"	"	
"	02 ³⁰	80° 26.08	7° 52.71	2.9	257	806		"	"	"	"	"	
"	02 ⁴⁵	80° 26.47	7° 49.92	2.1	6	800		"	"	"	"	"	
"	03 ⁰⁰	80° 27.62	7° 50.07	5.5	356	819		"	"	"	"	"	
"	15	80° 28.54	7° 49.76	3.6	357	828		"	"	"	"	"	
"	30	80° 29.52	7° 49.87	4.5	74	840		"	"	"	"	"	
"	45	80° 30.48	7° 50.65	5.0	5	853		"	"	"	"	"	
"	04 ⁰⁰	80° 31.67	07° 49.79	4.1	274.7	846		"	"	"	"	Belgmann	
"	04 ¹⁵	80° 32.57	07° 49.75	1.9	348.9	844		"	"	"	"	"	
"	04 ³⁰	80° 33.44	07° 49.39	2.6	1.2	838		"	"	"	"	"	
"	04 ⁴⁵	80° 34.24	07° 50.18	2.7	356.7	835		"	"	"	"	"	
"	05 ⁰⁰	80° 34.70	07° 49.62	0.4	306.0	837		"	"	"	"	"	
"	05 ¹⁵	80° 34.82	07° 47.53	1.3	268.6	824		"	"	"	"	"	
"	05 ³⁰	80° 35.34	07° 47.77	3.5	30.4	826		"	"	"	"	"	
"	05 ⁴⁵	80° 35.68	07° 49.20	2.8	288.2	824		"	"	"	"	"	Hydroscop abgehandelt
"	06 ⁰⁰	80° 35.63	07° 50.01	1.9	131.8	827		"	"	"	"	"	
"	6 ¹⁵	80° 35.44'N	7° 50.29'E	1.2	174.5	830	20-30	1000	200	4	4	Nowayk	
"	6 ³⁰	80° 35.21'N	7° 51.41'E	1.5	121.7	831		"	"	"	"	"	
"	6 ⁴⁵	80° 34.16'N	7° 52.12'E	5.4	173.4	846		"	"	"	"	"	



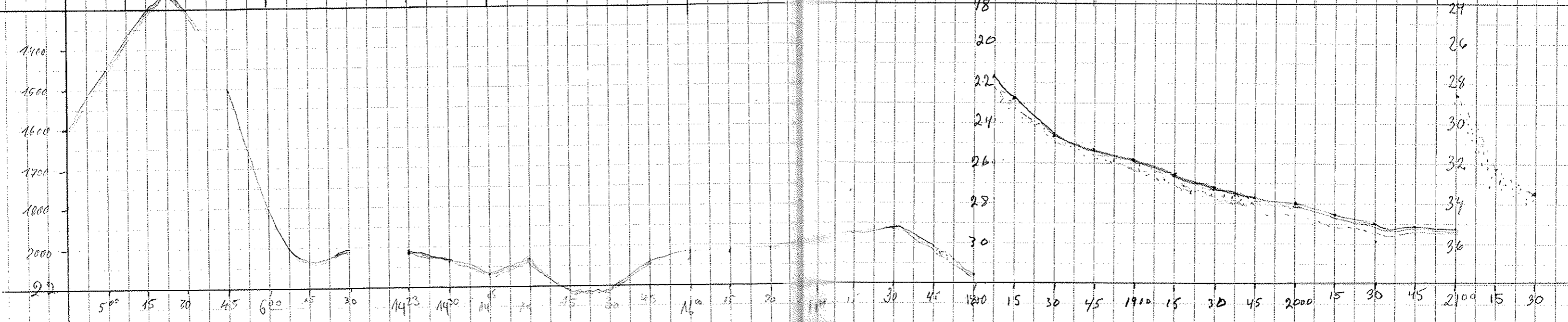
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Packages	Name	Comments
11/10/91	7:02	80° 32.42' N	75° 55.73' E	6.7	140.8	845	20-30 m	1000	2.00	4	4	Newman	
	7:15	80° 31.86' N	8° 00.56' E	6.0	143.1	886	"	"	"	"	"	"	
	7:30	80° 30.85' N	8° 04.71' E	4.3	157.2	897	30m	"	"	"	"	"	
	7:45	80° 29.75' N	8° 08.05' E	3.7	148.7	912	40m	"	"	"	"	"	
	8:00	80° 28.76' N	8° 12.34' E	6.0	140.2	815	40m	1000	100	4	4	"	
	08:15	80° 27.09' N	08° 15.44' E	7.2	173.4	912	"	"	"	"	"	BRASS	
	08:30	80° 25.82' N	08° 15.70' E	5.7	181.2	886	30	"	"	"	"	"	
	08:45	80° 24.75' N	08° 16.06' E	5.8	180.5	845	20	"	"	"	"	"	
	09:00	80° 23.36' N	08° 17.76' E	4.9	167.2	796	"	"	"	"	"	"	
	09:15	80° 22.11' N	08° 18.94' E	7.1	170.2	750	"	"	"	"	"	"	ICE EDGE, SWALBARD TO THE SE
	09:30	80° 20.80' N	08° 18.06' E	6.8	254.9	712	"	"	"	"	"	"	
	09:45	80° 20.48' N	08° 11.15' E	6.1	248.3	701	"	"	"	"	"	"	
	10:00	80° 19.97' N	08° 00.39' E	6.1	254.8	688	"	"	"	"	"	"	
	10:15	80° 19.59' N	07° 52.59' E	6.9	255.3	673	20	"	"	"	"	Manchester	
	10:30	80° 19.18' N	07° 43.86' E	6.2	254.4	659	8	"	"	"	"	"	
	10:45	80° 18.79' N	07° 35.21' E	6.4	255.4	653	15	"	"	"	"	"	
	11:00	80° 18.38' N	07° 26.31' E	6.0	252.3	645	15	"	"	"	"	"	
	11:15	80° 17.90' N	07° 17.63' E	6.2	250.4	636	15	"	"	"	"	"	
	11:30	80° 17.40' N	07° 09.07' E	6.3	251.8	609	5	"	"	"	"	"	
	11:45	80° 16.98' N	07° 00.14' E	6.4	255.8	599	10	"	"	"	"	"	
	12:00	80° 16.66' N	06° 52.41' E	3.0	261.6	590	6	"	"	"	"	"	
	12:15	80° 16.58' N	06° 48.63' E	2.6	275.0	578	4	"	"	"	"	"	
	12:41	80° 16.2' N	06° 40.44' E	3.1	284	513	25	"	"	"	"	Schubert	Station
	14:53	80° 17.35' N	06° 34.25' E	1.1	326.9	572	25	"	"	"	"	Requena	Station
	15:00	80° 17.56' N	06° 38.07' E	8.5	75.3	570	25	"	"	"	"	"	
	15:15	80° 17.44' N	06° 50.75' E	9.5	58.8	582	25	"	"	"	"	"	
	15:30	80° 16.83' N	06° 50.0' E	5.6	243.1	576	"	"	"	"	"	"	
	15:45	80° 16.39' N	06° 43.99' E	4.9	247.5	567	"	"	"	"	"	"	
	16:00	80° 15.89' N	06° 36.31' E	5.3	242.8	570	"	"	"	"	"	"	
	16:15	80° 15.43' N	06° 29.04' E	4.6	249.2	571	"	"	"	"	"	Vanna	
	16:30	80° 14.98' N	06° 22.36' E	5.0	243.4	576	"	"	"	"	"	Vanna	
	16:45	80° 14.52' N	06° 15.57' E	4.9	243.6	572	"	"	"	"	"	"	
	17:00	80° 14.09' N	06° 09.10' E	4.8	242.4	599	"	"	"	"	"	"	
	17:20	80° 13.42' N	06° 00.20' E	5.1	246.9	651	"	"	"	"	"	"	
	17:30	80° 13.09' N	05° 51.07' E	5.1	247.3	670	"	"	"	"	"	"	
	17:45	80° 12.67' N	05° 46.30' E	4.2	245.8	701	"	"	"	"	"	"	
	18:00	80° 12.16' N	05° 42.74' E	5.0	245.6	735	"	"	"	"	"	"	
	18:15	80° 11.40' N	05° 38.52' E	5.0	187.6	771	15	"	"	"	"	Jodrey	
	18:30	80° 10.26' N	05° 37.25' E	4.8	187.4	796	15	"	"	"	"	"	
	18:45	80° 09.03' N	05° 36.31' E	5.0	189.1	826	7	"	"	"	"	"	
	19:00	80° 07.84' N	05° 35.57' E	4.9	184.8	850	9	"	"	"	"	"	



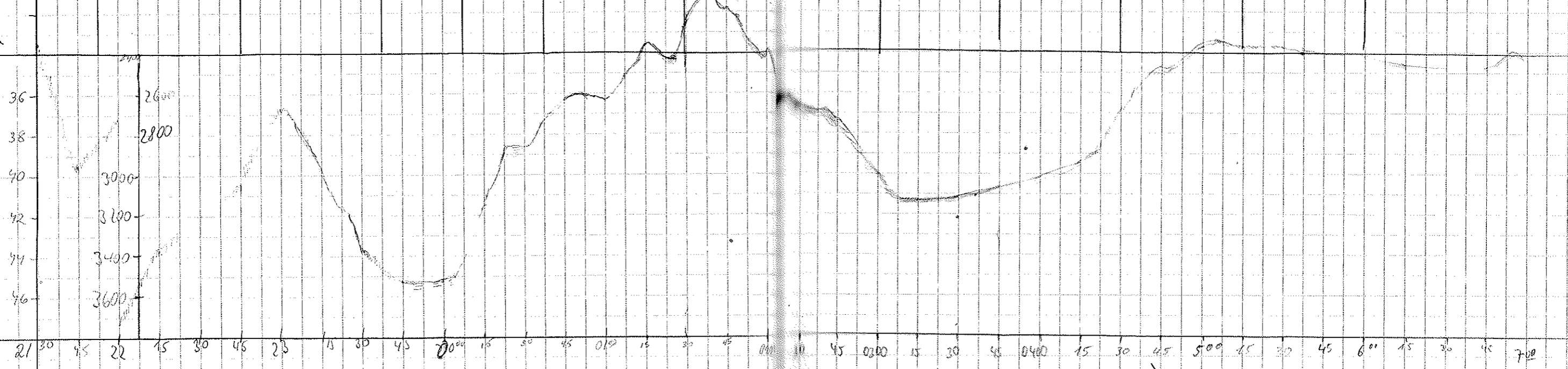
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency # of Pulses	Range	Comments
	1915	80° 06. 62	5° 34. 89	5.2	184.5	862	9	1000	200	4	8	Todkey
	1930	80° 05. 37	5° 33. 89	4.8	187.2	829	8	"	"	"	"	"
	1945	80° 04. 17	5° 32. 86	5.0	189.4	917	10	"	"	"	"	"
	2000	80° 02. 96	5° 31. 88 E	5.7	188.0	942	15	"	"	"	"	GARD
	2015	80° 01. 78	5° 31. 03 E	5.7	184.7	964	10	"	"	"	"	"
	2030	80° 00. 55	5° 30. 08 E	5.0	188.8	990	15	"	"	"	6	"
	2045	79° 59. 29	5° 28. 77 E	5.0	190.2	1017	15	"	"	"	"	"
	2100	79° 58. 11	5° 28. 02 E	13.0	199.7	1048	15	5000	"	"	"	"
	2115	79° 56. 97	5° 26. 87 E	5.7	197.5	1079	20	"	"	"	4	"
	2130	79° 55. 68	5° 25. 52 E	5.2	188.9	1115	20	"	"	"	"	"
	2145	79° 54. 33	5° 24. 22 E	5.5	191.5	1155	20	"	"	"	"	"
	2200	79° 52. 97	5° 22. 64	5.7	186.6	1207	20	"	"	"	"	FRENERICH
	2215	79° 51. 74	5° 21. 84	4.9	190.1	1201	20	"	"	"	"	"
	2230	79° 50. 44	5° 20. 64	5.2	189.3	1340	15	"	"	"	"	"
	2245	79° 49. 12	5° 19. 47	5.7	189.1	1378	10-15	"	"	"	6	"
	2300	79° 47. 78	5° 18. 39	5.4	188.6	1466	"	"	"	"	4	"
	2315	79° 46. 44	5° 17. 13	5.4	189.4	1574	"	"	"	"	8	"
	2330	79° 45. 08	5° 15. 83	5.8	188.6	1711	10	"	"	"	4	"
	2345	79° 43. 91	5° 15. 07	3.7	150.1	1835	10	"	"	"	4	"
2.10.91	0000	79° 42. 81	5° 19. 05	4.7	153.1	1979	15	"	"	"	6	"
	0015	79° 41. 65	5° 22. 69	5.9	147.4	2033	15-20	5000	200	4	6	MORAN
	0030	79° 40. 64	5° 25. 98	4.5	150.7	2046	15-20	"	"	"	"	"
	0045	79° 39. 80	5° 29. 06	4.9	148.1	2128	10-20	"	"	"	"	"
	0100	79° 38. 43	5° 34. 09	10.2	156.9	2035	10-20	"	"	"	"	changed heading to East @ 0100
	0115	79° 38. 05	5° 45. 72	9.1	92.0	1794	10-20	"	"	"	"	"
	0130	79° 38. 01	5° 52. 10	9.0	91.5	1568	10-15	"	"	"	"	changed heading to South @ 0130
	0145	79° 36. 32	5° 58. 09	8.8	207.0	1683	"	"	"	"	"	changed heading to West
	0200	79° 36. 31	5° 44. 41	11.5	269.0	1955	"	"	"	"	"	2 nd Backup ARK 832
	0230	79° 34. 46	5° 50. 82	9.3	89.9	1939	10-20	"	"	5.5	"	2 nd Backup Sec. det
	0300	79° 34. 48	5° 38. 65	8.9	90	1777	"	"	"	4	"	"
	0315	79° 34. 74	6° 09. 33	7.5	356	1556	5	"	"	"	"	"
	0330	79° 36. 94	6° 08. 84	9.0	359	1457	30	"	"	"	"	"
	0345	79° 39. 22	6° 08. 27	8.9	337	1367	"	"	"	"	"	"
	0400	79° 53. 57	05° 56. 53 E	10.4	273.1	1574	20	"	"	4	4	Barmann
	0415	79° 53. 54	05° 40. 82	11.0	268.9	7796	10	"	"	4	4	"
	0430	79° 40. 82	05° 39. 26	8.6	343.1	7791	"	"	"	4	4	"
	0446	79° 40. 83	05° 45. 72	7.9	30.5	7602	"	"	"	4	4	"



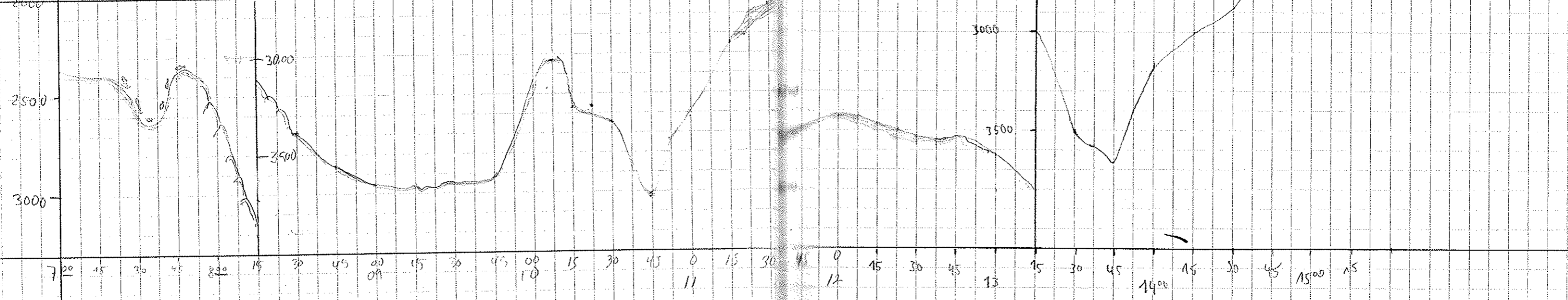
Date	Time	Latitude	Longitude	Speed	Course	Waterdepth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
02 10 11	15 00	79° 41.00' N	25° 55.09' E	8.3	89.4	1454	10-20	5000	200	4	4	Bergmann	
	05 15	79° 41.04'	26° 06.73'	7.9	82.6	1306	"	"	"	"	"	"	
	05 30	79° 42.36'	26° 00.3'	10.5	763.9	1297	20-30	"	"	"	"	"	
	05 45	79° 42.25'	25° 46.71'	11.3	270.4	1593	10-20	"	"	4	4	"	
	6 00	79° 42.33' N	25° 31.20' E	11.4	272.8	1809	20	"	"	"	"	Nowaczyk	Versammlung 603 Richtung WSW
	6 15	79° 41.27' N	25° 21.07' E	5.3	287.5	2093	"	"	"	"	"	"	
	6 30	79° 41.63' N	25° 23.17' E	1.3	228.0	2028	"	"	"	5.5/4	4	"	Station
	6 45	79° 41.44' N	25° 21.23' E	0.7	274.2	2076	"	"	"	4	4	"	
	7 20	79° 41.57' N	25° 22.58' E	1.5	328	2048	"	"	"	4	8	"	1250 Scheff areal verbott - 1300
	7 46	79° 42.10' N	25° 16.82' E	1.1	337.6	2082	4	"	"	Frequent fast	4	Bergmann	
	14 23	79° 43.01'	25° 12.61'	5.3	143.0	2029	"	5000	200	"	"	König	
	14 30	79° 42.74'	25° 13.82'	3.0	139.1	2046	"	"	"	"	"	"	
	14 45	79° 41.97'	25° 19.45'	3.8	128.5	2073	"	"	"	"	"	"	
	15 00	79° 41.00'	25° 24.47'	5.1	138.6	2041	"	"	"	"	"	"	
	15 15	79° 39.94'	25° 28.21'	5.1	147.8	2110	"	"	"	"	"	"	
	15 30	79° 38.83'	25° 31.81'	5.2	152.5	2128	"	"	"	5.5	8	"	
	15 45	79° 37.6	25° 35.75'	4.8	148.6	2046	"	"	"	4	4	"	
	16 00	79° 36.68'	25° 38.96'	5.1	149.1	2035	20	"	"	"	"	Verein	
	16 15	79° 35.61'	25° 42.82'	4.9	145.9	2025	"	"	"	"	"	"	
	16 21	79° 34.42'	25° 46.95'	5.3	145.5	2018	35	"	"	"	"	"	
	16 40	79° 33.12'	25° 51.53'	4.6	144.5	1991	"	"	"	"	"	"	
	17 00	79° 32.48'	25° 54.02'	5.2	147.5	1975	"	"	"	"	"	"	
	17 16	79° 31.27'	25° 57.60'	5.2	157.2	1952	40	"	"	"	"	"	
	17 30	79° 30.28'	25° 59.62'	4.8	170.	1930	"	"	"	"	"	"	Course change
	17 45	79° 30.03'	25° 53.17'	4.9	207.2	2019	"	"	"	"	"	"	
	18 00	79° 30.01'	25° 46.17'	5.1	269.9	2154	25	"	"	"	"	"	
	18 15	79° 29.92'	25° 39.98'	4.5	265.3	2286	20	"	"	"	"	Jodrey	
	18 36	79° 29.94'	25° 30.68'	4.3	270.7	2465	20	"	"	"	"	"	
	18 45	79° 29.95'	25° 26.88'	5.3	270.9	2531	30	"	"	"	"	"	
	19 00	79° 29.28'	25° 19.58'	5.9	263.0	2592	20	"	"	"	"	"	
	19 15	79° 29.97'	25° 12.81'	5.2	269.3	2665	40	"	"	"	"	"	HP 3852 Error; Rechner-Warmst
	19 30	79° 29.94'	25° 05.95'	4.8	267.3	2711	30	"	"	"	"	"	Pendelgen-Neustadt
	19 45	79° 29.97'	25° 59.15'	5.2	271.6	2768	10	"	"	"	"	"	
	20 00	79° 29.98'	24° 52.31'	4.9	269.3	2798	20	"	"	"	"	"	no registration for a while!
	20 15	79° 30.00'	24° 45.31'	5.7	271.3	2827	15	"	"	"	"	GARD	
	20 30	79° 29.98'	24° 38.77'	5.7	267.2	2848	40	"	"	"	"	"	
	20 45	79° 29.99'	24° 31.81'	4.8	276.4	2855	"	"	"	"	"	"	Cont. x
	21 00	79° 30.02'	24° 24.67'	5.3	270.4	2858	35	"	"	"	"	"	
	21 15	79° 30.02'	24° 17.34'	5.5	269.3	3227	"	"	"	"	"	"	
	21 30	79° 30.00'	24° 10.06'	5.4	271.3	3346?	"	"	"	5.5	8	"	



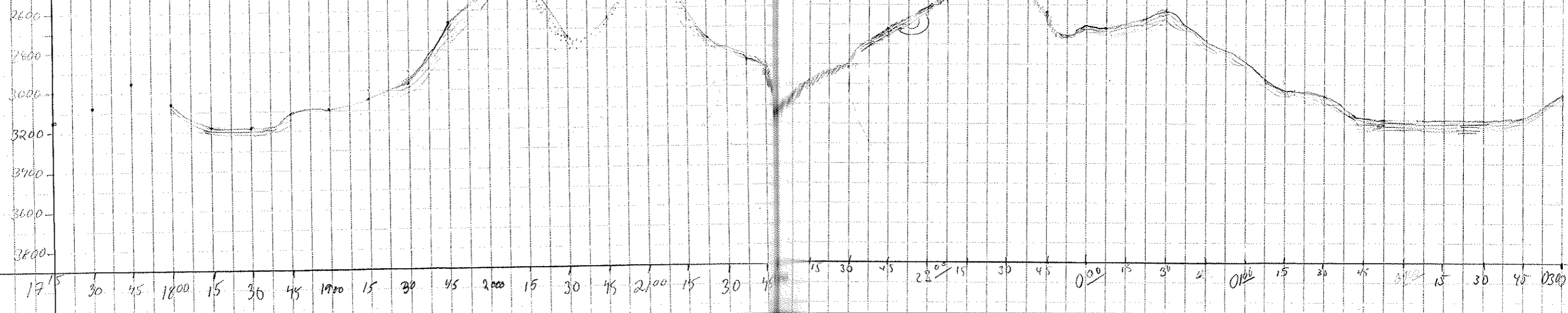
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
02.10.91	21:45	79° 30.01	4° 02.49	5.4	271.2	3954	25	5000	200	4	4	Jodrey	
	22:00	79° 30.00	3° 55.02	5.4	267.8	3730	?	"	"	"	"	FREDERICKS	
	22:15	79° 29.96	03 48.27	5.3	265.6	3384	?	"	"	5.5	8	Bergmann	
	22:30	79° 29.92	02 41.16	5.2	268.3	3202	?	"	"	"	"	"	
	22:45	79° 29.94	3° 33.37	5.6	272.0	3019	?	"	"	"	"	FREDERICKS	
	23:00	79° 29.98	3° 26.14	5.7	272.1	2673	?	"	"	"	"	"	
	23:15	79° 29.99	03° 19.08	5.2	269.9	2983	"	"	"	"	"	"	
	23:30	79° 29.96	03° 11.83	5.8	270.5	3382	"	"	"	"	"	"	
	23:45	79° 30.00	3° 03.84	5.5	272.0	3525	"	"	"	"	"	"	
03.10.91	00:00	79° 30.02 N	2° 56.85 E	5.3	270.6	3524	25-30	"	"	5.5	8	MORAN	side echoes
	00:15	79° 30.01 N	2° 49.65 E	5.2	269.8	3191	115	"	"	"	"	"	very poor penetration
	00:30	79° 29.98 N	2° 42.47 E	5.4	270.3	2840	120	"	"	4	4	"	
	00:45	79° 29.97 N	2° 34.68 E	5.2	269.3	2624	120	"	"	5.5	8	"	poor record/penetration
	01:00	79° 29.99 N	2° 27.55 E	4.8	272.9	2616	20-30	"	"	5.5	8	"	
	01:15	79° 29.98 N	2° 20.86 E	5.0	260.5	2343	10	"	"	4	8	"	better penetration
	01:30	79° 29.97 N	2° 13.67 E	5.2	269.6	2295	poor	"	"	4	8	"	too skip for signal
	01:45	79° 30.00 N	2° 06.23 E	5.4	271.2	2174	poor	"	"	5.5	8	"	" " " "
	02:00	79° 30.01 N	1° 58.75 E	5.2	270.1	2387	220	"	"	"	"	"	
	02:15	79° 30.02	1° 52.04	5.2	272	2617	40-60	"	"	"	"	Spridhagen	
	02:30	79° 30.02	1° 45.25	5.0	269	2579	"	"	"	"	"	"	
	02:45	79° 30.02	1° 38.23	5.0	268	2731	"	"	"	"	"	"	
	03:00	79° 29.94	1° 31.60	5.0	272	3002	"	"	"	"	"	"	
	03:15	79° 30.06	1° 30.07	5.1	.2	3115	30	"	"	"	"	"	
	03:30	79° 32.21	1° 30.05	5.3	.01	3103	"	"	"	"	"	"	
	03:45	79° 33.50	1° 30.00	5.2	1	3063	"	"	"	"	"	"	
	04:00	79° 39.84 N	01° 29.93 E	5.0	0.1	3007	3000	"	"	4	"	Bergmann	
	04:15	79° 36.09	01° 30.02	5.2	358.2	2350	"	"	"	"	"	"	Cont'd x 0927
	04:30	79° 37.28	01° 29.84	5.4	358.7	2669	"	"	"	5.5	"	"	Cont'd x 0940
	04:45	79° 38.61	01° 29.57	5.2	357.6	2483	20-30	"	"	4	"	"	
	05:00	79° 39.80	01° 29.29	5.4	356.8	2349	"	"	"	"	"	"	
	05:15	79° 40.72	01° 29.43	4.8	11.0	2347	"	"	"	"	"	"	
	05:30	79° 41.02	01° 29.50	0.7	33.9	2375	"	"	"	5.5	"	"	Stomach with aigebolt
	05:45	79° 41.30	01° 29.35	1.9	349.9	2399	"	"	"	"	"	"	(T.D. Southward)
	06:00	79° 41.56 N	1° 28.76 E	1.0	247.7	2422	"	5000	200	5.5	8	Nowaczyk	get water!
	6:15	79° 41.63 N	1° 27.34 E	1.1	271.1	2455	"	"	"	"	"	"	
	6:30	79° 41.85 N	1° 26.77 E	1.3	354.0	3570	"	"	"	"	"	"	
	6:45	79° 42.00 N	1° 26.42 E	3.6	112.1	2463	"	"	"	"	"	"	
	7:00	79° 41.44 N	1° 30.60 E	5.5	321.8	2367	"	"	"	"	"	"	



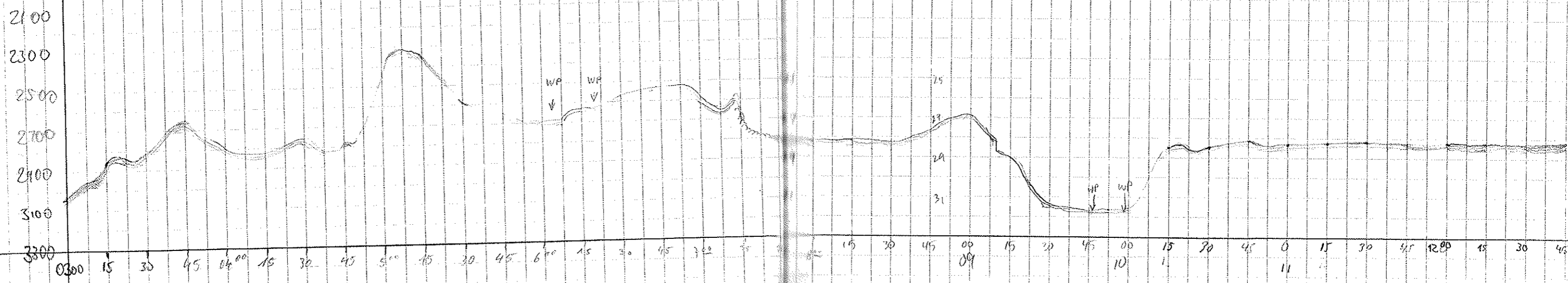
Date	Time	Latitude	Longitude	Speed	Course	Waterdepth	Penetration	Range	Scale	Frequency	# of Pikes	Name	Comments	165
3.10.51	7:22	79° 41.44' N	103° 00.60' E	5.5	321.8	2387	~30m	5000	200	6.5	8	Nowak 27K		
	7:25	79° 43.53' N	103° 03.03' E	5.5	0.4	2395	"	"	"	4	4	"		
	7:30	79° 45.66' N	102° 57.71' E	5.5	353.3	2672	"	"	"	4	8	"		
	7:45	79° 47.88' N	102° 59.39' E	8.7	1.5	23.68	20m	"	"	4	"	"		
	08:00	79° 50.19	01° 30' 02" E	8.9	001.0	2540	"	"	"	4	"	BRASS		
	08:15	79° 50.73	01° 40' 16" E	9.0	089.5	3126	"	"	"	4	"	"		
	08:30	79° 50.75	01° 50' 57" E	9.0	088.1	3394	40	"	"	4	"	"		
	08:45	79° 50.73	02° 03' 27" E	9.2	092.0	3570	50	"	"	4	"	"		
	09:00	79° 51.30	02° 14' 01" E	9.3	357.7	3665	30	"	"	4	"	"	CHANGE COURSE 08:55	
	09:15	79° 53.37	02° 13' 25" E	7.2	268.7	3688	20	"	"	4	"	"	CHANGE COURSE 09:12	
	09:30	79° 53.30	02° 00' 27" E	8.5	2106.6	3695	30	"	"	4	"	"	"	
	09:45	79° 53.44	01° 46' 60" E	9.6	279.5	3605	"	"	"	4	"	"	"	
	10:00	79° 53.42	01° 33' 81" E	9.5	2102.7	3120	40	"	"	4	"	"	"	
	10:15	79° 54.95 N	01° 30' 41" E	9.2	358.2	3283	40	"	"	4	"	Manchester		
	10:30	79° 56.14 N	01° 35' 47" E	9.9	99.5	3547	35	"	"	4	"	London		
	10:45	79° 55.69 N	01° 48' 99" E	9.1	88.1	3717	35	"	"	4	"	Manchester		
	11:00					3300	40	"	"	4	"	"		
	11:15					2854	40	"	"	4	"	"		
	11:30					2752	40	"	"	4	"	"		
	11:45	79° 57.64 N	02° 40' 55" E	9.4	68.7	2697	40	"	"	4	"	"		
	12:00	79° 58.45 N	02° 52' 83" E	9.2	68.1	2621	40	"	"	4	"	"		
	12:15	79° 58.59 N	02° 44' 15" E	9.9	270.6	2668	40	"	"	4	"	Schubert		
	12:30	79° 58.57 N	02° 30' 11" E	9.7	262.1	2727	40	"	"	4	"	"		
	12:45	79° 58.59 N	02° 17' 30" E	9.2	270.8	2728	35	"	"	4	"	"		
	13:00	79° 58.63 N	02° 04' 03.9" E	9.5	269.1	2816	30	"	"	4	"	"		
	13:15	79° 58.58 N	01° 50' 09.2" E	8.9	269.4	2996	25	"	"	4	"	"		
	13:30	79° 58.60 N	01° 36' 91" E	9.4	270.4	3370	1	"	"	4	"	"	Storage of/on	
	13:45	79° 58.61 N	01° 24' 83" E	9.0	268.2	3655	1	"	"	4	"	"		
	14:00	79° 58.59 N	01° 17' 80" E	9.4	975.9	3219	1	"	"	4	"	"		
	14:15	79° 55.35	01° 17' 55" E	9.2	178.4	3006	1	"	"	4	"	W. P. ...		
	14:30	79° 52.95	01° 17' 54" E	9.5	180.8	2884	1	"	"	4	"	"		
	14:45	79° 51.12	01° 24' 17" E	9.5	179.8	2510	1	"	"	4	"	"		
	15:00	79° 49.12	01° 17' 33" E	9.0	175.6	2314	1	"	"	4	"	"		
	15:18	79° 46.55	01° 17' 53" E	8.7	179.2	2527	1	"	"	4	"	"		
	15:30	79° 41.91	01° 17' 49" E	9.1	181.0	2648	1	"	"	4	"	"		
	15:45	79° 42.04	01° 17' 74" E	9.5	177.8	2562	1	"	"	4	"	"		
	16:00	79° 40.03	01° 17' 96" E	9.8	179.4	2580	30	5000	200	4	4	Varren		
	16:15	79° 37.35	01° 18' 04" E	9.5	180.6	2734	30	"	"	4	4	"		
	16:30	79° 35.36	01° 18' 12" E	9.0	178. -	2517	30	"	"	4	4	"		
	16:45	79° 32.75	01° 17' 99" E	9.1	175.2	2057	30	"	"	4	4	"		
	17:00	79° 30.37	01° 18' 20" E	10.0	180.4	3141	45	"	"	4	4	"		



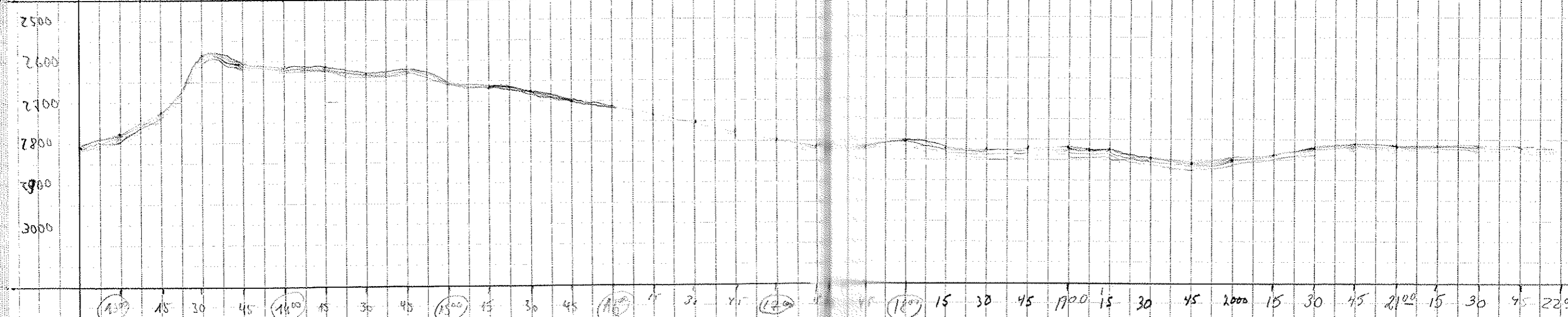
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Prediction	Range	Scale	Frequency	# of Pulses	Name	Comments
3.03.91	17 15	79° 28' 62"	01° 18' 99"	16.6	45.2	3187	41	5000	1	11	4	VORSE	
"	17 30	79° 28' 59"	01° 30' 62"	8.7	80.8	3088	"	"	"	"	"	"	
"	17 45	79° 27' 27"	01° 36' 37"	9.7	171.5	2978	"	"	200	5.5	8	GARD	
"	18 00	79° 26' 53"	1° 28' 48"	9.8	269.0	3067	40	"	"	"	"	GARD	
"	18 15	79° 26' 52"	1° 16' 17"	9.2	270.8	3188	30	"	"	4.5	4	"	
"	18 30	79° 26' 68"	1° 04' 54"	7.3	355.1	3187	40	"	"	4.0	"	"	
"	18 45	79° 28' 25"	1° 04' 48"	9.7	0.4	3107	20	"	"	5.5	6	"	
"	19 00	79° 31' 29"	1° 04' 69"	9.4	0.3	3101	30	"	"	4.5	1	Jodrey	
"	19 15	79° 33' 75"	1° 04' 62"	9.2	359	3046	35	"	"	"	"	"	
"	19 30	79° 35' 92"	1° 04' 48"	9.2	0.0	2969	35	"	"	"	4	"	
"	19 45	79° 38' 28"	1° 04' 61"	9.5	1.2	2656	35	"	"	"	"	"	
"	20 00	79° 40' 61"	1° 04' 79"	14.1	359.6	2477	23	"	"	5.5	8	"	I can see The End from Here.
"	20 15	79° 43' 00"	1° 04' 72"	8.0	359.3	2489	diffuse	"	"	"	"	GARD	
"	20 30	79° 45' 55"	1° 03' 78"	8.9	356.7	2719	"	"	"	"	"	"	
"	20 45	79° 47' 51"	1° 03' 93"	9.3	4.1	2640	"	"	"	4.5	4	"	
"	21 00	79° 48' 79"	1° 04' 94"	8.6	21.7	2245	20	"	"	4	4	"	
"	21 15	79° 51' 88"	1° 07' 71"	9.4	378.5	2975	20-40	"	"	5.5	8	"	
"	21 30	79° 54' 14"	1° 04' 51"	9.4	355.2	2745	20	"	"	4.5	6	"	
"	21 45	79° 56' 45"	1° 05' 36"	9.7	3.7	2821	20	"	"	4	4	"	
"	22 00	79° 58' 66"	1° 05' 85"	8.7	26.2	3167	20	"	"	5.5	8	FREDERICKS	
"	22 15	79° 58' 65"	0° 59' 27"	9.3	268.8	2987	20	"	"	"	"	"	
"	22 30	79° 58' 51"	0° 53' 81"	7.9	180.2	2905	20	"	"	"	"	"	
"	22 45	79° 56' 20"	0° 53' 58"	9.2	182.3	2713	25	"	"	"	"	"	
"	23 00	79° 53' 91"	0° 53' 63"	9.6	179.4	2640	20	"	"	"	"	"	
"	23 15	79° 51' 65"	0° 54' 95"	9.3	179.3	2370	25	"	"	4	"	"	
"	23 30	79° 49' 34"	0° 53' 58"	9.3	186.0	2344	20	"	"	"	"	"	
"	23 45	79° 47' 05"	0° 53' 28"	9.3	179.1	2644	25	"	"	5.5	8	"	
4.10.	00 00	79° 44' 70"	0° 53' 15"	9.6	181.2	2721	25	"	"	4	4	"	
"	00 15	79° 42' 29"	0° 52' 73"	9.4	178.9	2600	20	"	"	4	4	MORAN	
"	00 30	79° 40' 10"	0° 53' 02"	9.4	179.4	2606	20-25	"	"	"	"	"	
"	00 45	79° 37' 60"	0° 53' 07"	9.6	181.9	2861	11	"	"	"	"	"	
"	01 00	79° 35' 37"	0° 52' 16"	9.7	178.1	2962	"	"	"	"	"	"	
"	01 15	79° 32' 32"	0° 52' 88"	9.5	180.9	3022	"	"	"	"	"	"	
"	01 30	79° 30' 60"	0° 52' 12"	9.4	178.4	3077	"	"	"	"	"	"	
"	01 45	79° 28' 31"	0° 52' 05"	9.6	179.3	3181	20-40	"	"	"	"	"	SHEET!
"	02 00	79° 26' 41"	0° 54' 30"	4.7	347.4	3120	40	"	"	"	"	"	
"	15	79° 26' 50"	0° 43' 24"	9.6	268	3189	50	"	"	"	"	Sprallage	
"	30	79° 26' 80"	0° 39' 54"	7.9	1.2	3188	"	"	"	"	"	"	
"	45	79° 28' 92"	0° 39' 58"	9.2	.9	3172	"	"	"	"	"	"	
24	03 00	79° 31' 31"	0° 39' 50"	9.2	1.2	3038	"	"	"	"	"	"	



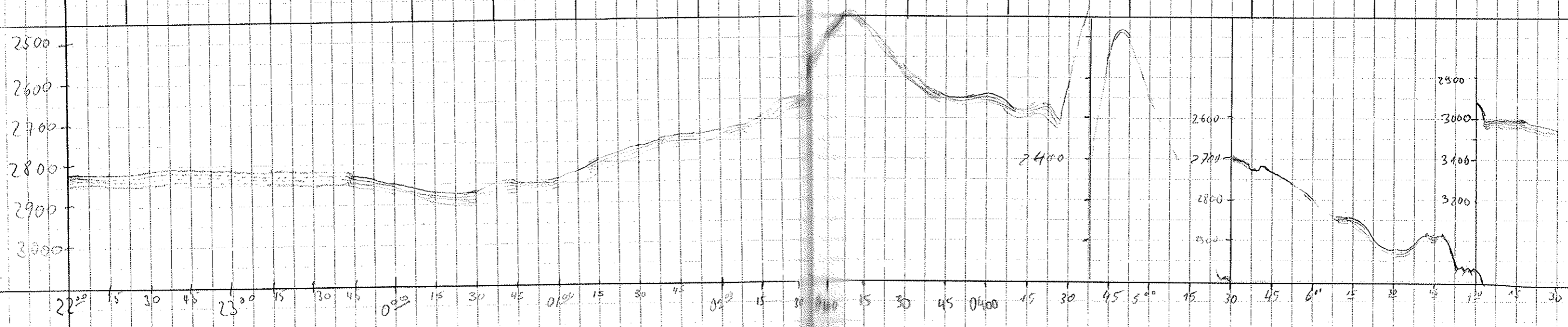
Date	Time	Lat/Lon	Speed	Course	Waterdepth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
04.10.91	03:15	79°33.62' N	9.8	6	2860	30	5000	200	4	4	Sprelling	
	30	79°35' 86	8.8	358	2801	40-50	"	"	"	"	"	
	45	79°38' 10	8.4	7	2681	40	"	"	"	"	"	
04:01		79°40' 65' N	9.0	359.3	2736	"	"	"	"	"	"	
04:15		79°42' 60	10.1	358.0	2809	"	"	"	"	"	Bergmann	
04:31		79°45' 39	9.3	2.1	2723	"	"	"	"	"	"	
04:45		79°47' 45	9.2	359.4	2790	"	"	"	"	"	"	
05:00		79°49' 33	9.5	358.0	2455	7	"	"	8	5.5	"	
05:15		79°52' 19	9.5	353.2	2376	20-20	"	"	4	4	"	
05:30		79°54' 45	9.6	0.2	2592	20	"	"	8	5.5	"	
05:45		79°56' 30	9.4	353.2	2646	40m	"	"	4	4	"	Control x
06:00		79°58' 45	7.4	291.5	2656	"	"	"	4	4	"	
06:15		79°58.60' N	7.6	207.3	2624	20/40m	5000	200	4	4	Nowaczyk	
06:30		79°57.41' N	8.2	173.3	2577	30m	"	"	"	"	"	
06:45		79°55.11' N	8.7	181.2	2534	40m	"	"	"	"	"	
07:00		79°52.85' N	8.2	179.7	2576	30m	"	"	"	"	"	
07:15		79°50.36' N	8.5	185.2	2658	47m	"	"	"	"	"	
07:30		79°48.60' N	8.3	183.8	2794	40m	"	"	"	"	"	
07:45		79°46.17' N	8.4	174.7	2826	50m	"	"	"	"	"	
08:00		79°43.35' N	8.0	175.5	2827	50m	"	"	"	"	"	Disk full → Backup
08:15		79°41.41	6.7	177.6	2816	30m	"	"	"	"	"	
08:30		79°39.03	9.0	182.1	2826	40m	"	"	"	"	BRASS	
08:45		79°36.61	9.8	177.7	2761	20m	"	"	"	"	"	
09:00		79°34.32	10.0	80.0	2698	"	"	"	"	"	"	
09:15		79°31.84	8.6	181.7	2884	0	"	"	"	"	"	
09:30		79°29.32	9.1	185.2	3121	40	"	"	5.5/4	8/4	"	
09:45		79°27.13	9.1	178.0	3174	"	"	"	4.0	"	"	
10:00		79°26.55	7.6	270.9	3171	4	"	"	"	"	"	
10:15		79°26.51' N	9.3	265.7	2895	40	"	"	"	"	"	CHANGE COURSE 09:50
10:30		79°27.50' N	9.3	354	2855	35	"	"	"	"	"	readjusted gain
10:45		79°29.83' N	9.2	358.9	2814	35	"	"	"	"	"	
11:00		79°32.19' N	9.1	360.0	2825	20	"	"	"	"	"	
11:15		79°34.37' N	8.9	0.9	2825	10	"	"	"	"	"	
11:30		79°36.62' N	9.3	1.5	2824	30	"	"	"	"	"	
11:45		79°38.90' N	9.0	359.7	2828	35	"	"	"	"	"	
12:00		79°41.17	9.0	1.1	2826	35	"	"	"	"	"	
12:15		79°43.67	9.2	359.8	2826	35	"	"	"	"	"	
12:30		79°45.65	9.2	0.9	2826	40	"	"	"	"	"	
12:45		79°48.00	9.1	4.4	2816	40	"	"	"	"	"	Rock # 11 ↓ Rock # 12



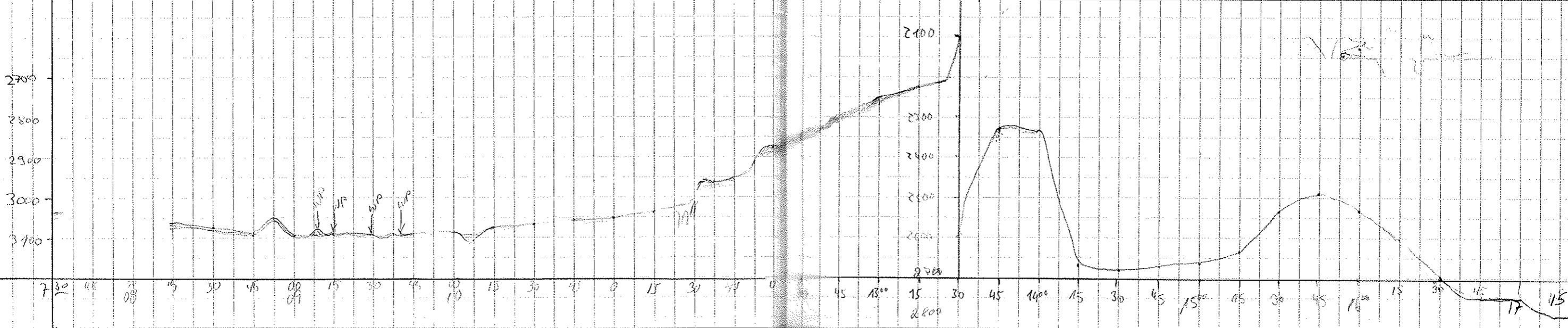
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
4.10.91	12:05	79° 48' 00" N	0° 10' 25" E	10.1	44	2816	40	5000	200	4	4	Johann	
	13:00	79° 50' 26"	0° 10' 33"	8.2	73	2771	"	"	"	"	"	"	
	13:25	79° 51' 55"	0° 10' 31"	6.0	359.0	2723	25	"	"	"	"	"	
	13:20	79° 53' 6"	0° 10' 40"	9.4	22	2599	25	"	"	5.5	"	"	
	13:45	79° 55' 8"	0° 10' 34"	7.7	17	2605	25	"	"	4	"	"	
	14:00	79° 56' 00"	0° 10' 36"	4.0	350.0	2614	"	"	"	"	"	"	
	14:15	79° 59' 38"	0° 10' 38"	2.8	354.5	2625	"	"	"	"	"	"	
	14:30	79° 58' 55"	0° 07' 9"	5.2	271.5	2632	"	"	"	"	"	"	
	14:45	79° 58' 6.5"	0° 00' 39" W	6.4	271.4	2632	"	"	"	"	"	"	
	15:00	79° 58' 39"	0° 04' 23" W	1.0	188.6	2652	"	"	"	"	"	"	
	15:15	79° 57' 8.4"	0° 04' 20" W	5.5	178.9	2657	"	"	"	"	"	"	
	15:30	79° 56' 26"	0° 04' 46" W	2.4	212.8	2676	"	"	"	"	"	"	
	15:45	79° 55' 17"	0° 04' 31"	4.2	175.8	2700	"	"	"	"	"	"	
	16:00	79° 54' 22"	0° 04' 6.3"	2.8	195.9	2715	"	"	"	"	"	"	
	16:15	79° 54' 09"	0° 05' 21"	6.2	171.0	2725	"	"	"	"	"	"	Vorm
	16:30	79° 52' 32"	0° 04' 32"	6.9	183.2	2730	"	"	"	"	"	"	"
	16:45	79° 50' 23"	0° 04' 10"	7.6	175.6	2735	"	"	"	"	"	"	"
	17:00	79° 48' 21"	0° 04' 31"	6.0	181.9	2749	30	"	"	"	"	"	"
	17:15	79° 46' 48"	0° 04' 9"	7.0	177.5	2810	25	"	"	"	"	"	"
	17:30	79° 44' 40"	0° 05' 9"	7.6	174.0	2818	30	"	"	"	"	"	"
	17:45	79° 42' 48"	0° 05' 54"	7.5	171.3	2822	"	"	"	"	"	"	"
	18:00	79° 40' 30"	0° 04' 8.7"	8.1	179.9	2815	30	"	"	"	"	"	Johann
	18:15	79° 38' 25"	0° 04' 9.3"	8.2	181.8	2825	30	"	"	"	"	"	"
	18:30	79° 36' 34"	0° 04' 6.0"	9.0	182.5	2824	35	"	"	"	"	"	"
	18:45	79° 34' 27"	0° 04' 2.7"	9.5	184.9	2821	30	"	"	"	"	"	"
	19:00	79° 31' 9.6"	0° 05' 0.1"	9.4	182.1	2818	30	"	"	"	"	"	"
	19:15	79° 29' 5.2"	0° 05' 3.8"	9.1	181.8	2826	30	"	"	"	"	"	"
	19:30	79° 27' 30"	0° 05' 4.0"	9.2	180.5	2849	30	"	"	"	"	"	"
	19:45	79° 26' 4.0"	0° 07' 5.7"	9.1	263.3	2859	30	"	"	"	"	"	"
	20:00	79° 26' 5.1"	0° 19' 5.8"	8.8	268.9	2898	30	"	"	"	"	"	GARD
	20:15	79° 27' 6.2"	0° 18' 7.0"	9.4	358.2	2838	30	"	"	"	"	"	"
	20:30	79° 30' 0.6"	0° 19' 5.0"	9.8	354.2	2818	30	"	"	"	"	"	"
	20:45	79° 32' 4.1"	0° 19' 9.9"	9.5	2.1	2814	30	"	"	"	"	"	"
	21:00	79° 34' 2.8"	0° 20' 0.0"	9.4	359.0	2820	30	"	"	"	"	"	"
	21:15	79° 34' 1.7"	0° 19' 8.1"	9.2	0.3	2822	30	"	"	"	"	"	"
	21:30	79° 38' 2.0"	0° 22' 3.2"	4.1	270.4	2821	30	"	"	"	"	"	"
	21:45	79° 38' 3.1"	0° 25' 8.2"	5.2	207.4	2820	30	"	"	"	"	"	"
	22:00	79° 37' 3.6"	0° 27' 9.2" W	2.9	173.8	2819	25	"	"	"	"	"	FREDERICKS



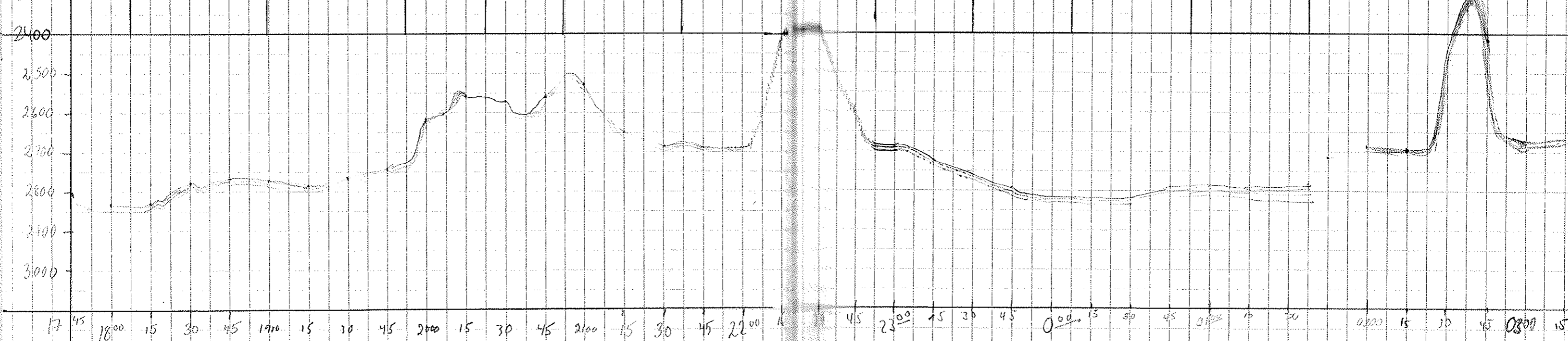
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
4.10.	22 ²⁵	79°35.72' N	0°34.71' W	9.1	274.7	2819	30	5000	200	4	4	FREDERICKS	
	22 ³⁰	79°33.51	0°33.81	8.9	175.6	2810	30	"	"	"	"	"	
	22 ⁴⁵	79°31.41	0°33.44	7.7	181.0	2804	25	"	"	"	"	"	
	23 ⁰⁰	79°29.07	0°33.84	9.6	183.4	2808	25	"	"	"	"	"	
	23 ¹⁵	79°26.84	0°34.02	9.6	179.8	2809	20	"	"	"	"	"	
	23 ³⁰	79°24.67	0°35.52	9.7	188.7	2809	20	"	"	"	"	"	
	23 ⁴⁵	79°24.10	0°34.00	7.5	96.1	2821	25	"	"	"	"	"	
5.10.	00 ⁰⁰	79°25.94	0°32.61' W	8.6	88.3	2851	25-30	"	"	4	4	MORAN	
	00 ¹⁵	79°24.12	0°14.94' W	5.9	183.2	2867	"	"	"	"	"	"	making course change.
	00 ³⁰	79°21.98	0°14.94' W	8.5	179.6	2857	25	"	"	"	"	"	
	00 ⁴⁵	79°19.70	0°14.81' W	9.8	180.3	2854	25	"	"	"	"	"	
	01 ⁰⁰	79°17.41	0°14.99' W	8.9	181.8	2837	30-40	"	"	"	"	"	
	01 ¹⁵	79°15.89	0°15.27' W	8.5	178.1	2795	30-40	"	"	"	"	"	
	01 ³⁰	79°12.87	0°14.90' W	8.8	177.3	2760	"	"	"	"	"	"	
	01 ⁴⁵	79°10.59	0°14.33' W	9.2	179.5	2741	"	"	"	"	"	"	
	02 ⁰⁰	79°08.51	0°15.13	9.1	184	2726	"	"	"	"	"	Spethberg	
	15	79°06.8	0°15.61	9.4	181	2691	"	"	"	"	"	"	
	30	79°03.87	0°15.07	9.7	177	2651	"	"	"	"	"	"	
	45	79°01.56	0°14.66	9.1	179	2592	"	"	"	"	"	"	
	03 ⁰⁰	78°59.23	0°14.99	9.5	181	2492	"	"	"	"	"	"	
	15	78°56.89	0°14.91	9.2	180	2467	"	"	"	"	"	"	
		78°54.60	0°14.92	9.2	180	2574	"	"	"	"	"	"	
		78°52.23	0°14.98	9.3	182	2650	"	"	"	"	"	"	
	04 ⁰⁰	78°49.98' N	00°15.06' W	8.5	180.3	2647	"	"	"	"	"	"	
	04 ¹⁶	78°47.37	00°14.59	9.7	181.1	2664	"	"	"	"	"	Beignacien	
	04 ³⁰	78°45.25	00°14.72	8.9	180.5	2602	"	"	"	"	"	"	
	04 ⁴⁵	78°42.92	00°14.30	9.3	182.0	2125	2/20	"	"	5.5/14	8	"	
	05 ⁰⁰	78°40.57	00°14.35	9.3	180.4	2248	2/20	"	"	5.5/14	4	"	
	05 ¹⁶	78°38.06	00°15.06	9.1	178.8	2491	?	"	"	4	4	"	
	05 ³⁰	78°35.84	00°14.89	9.2	182.6	2702	20-30	"	"	5.5/14	8/4	"	
	05 ⁴⁵	78°33.44	00°15.37	8.2	179.5	2726	4	"	"	4	4	"	extreme heater. Re/Vektor
	06 ⁰⁰	78°31.32	00°15.25	8.2	180.0	2738	20	"	"	4	4	"	Tju! Forschung is part in the Arctic!
	6 ¹⁵	78°28.94' N	0°14.93' W	9.7	177.8	2851	40m	100	200	4	4	Nowaczyk	
	6 ³⁰	78°26.63' N	0°14.95' W	8.2	180.5	2924	1	1	1	1	1	1	
	6 ⁴⁵	78°24.25' N	0°15.15' W	9.0	181.5	2887	1	1	1	1	1	1	
	7 ⁰⁰	78°22.07' N	0°15.12' W	9.5	177.5	2971	1	1	1	1	1	1	
	7 ²⁰	78°19.08' N	0°15.07' W	8.5	180.2	3025	1	1	1	1	1	1	
	7 ³⁰	78°17.48' N	0°14.83' W	8.5	178.3	3036	1	1	1	1	1	1	



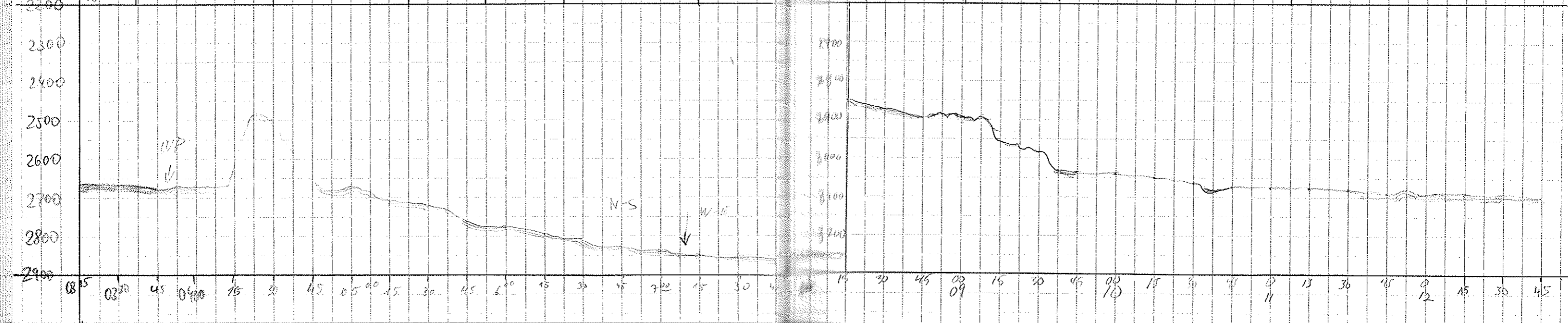
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Piles	Name	Comments
5.10.51	7:30	78° 17.45' N	0° 14.93' W	8.5	178.3	3036	40m	5000	200	4	4	Novoznyk	7:35 Disk full → Backup
	7:45	78° 15.18' N	0° 14.83' W	8.2	181.2	3043							
	8:00												
	08:15	78° 10.24	00° 14.82 W	9.10	179.5	3064	40					BRASS	
	08:30	78° 08.13	00° 14.84 W	9.7	180.5	3076	30						
	08:45	78° 05.66	00° 15.32 W	10.1	182.5	3092	20						
	09:00	78° 03.53	00° 15.12 W	9.3	177.5	3095	30						
	09:15	78° 02.06	00° 14.57 W	5.7	272.3	3083	11						COURSE CHANGE 09:09
	09:30	78° 01.94	00° 25.32 W	9.8	266.0	3092	11						COURSE CHANGE 09:31
	09:45	78° 02.69	00° 28.45 W	10.4	359.4	3087	35						
	10:00	78° 05.32	00° 28.41 W	10.5	359.4	3083	35					Mandel	
	10:15	78° 07.96	00° 28.72	10.7	359.7	3074	35						
	10:30	78° 10.59	00° 28.92	10.4	1.2	3062	40						
	10:45	78° 13.05	00° 28.48	9.7	359.8	3057	40						
	11:00	78° 15.55	00° 28.54	9.6	359.5	3051	35						
	11:15	78° 17.95	00° 28.65	9.7	0.6	3039	35						
	11:30	78° 20.42	00° 28.28	9.9	1.0	3004	30						Strange bottom during last 10 min
	11:45	78° 22.98	00° 28.69	10.0	358	2956	30						
	12:00	78° 25.44	00° 28.42 W	10.1	7.6	2879	25					Schubert	
	12:15	78° 28.32	00° 28.033 W	10.1	359.8	2870	20						
	12:30	78° 30.37	00° 27.71	9.5	3.4	2842	25						
	12:45	78° 32.83	00° 26.25	9.5	3.7	2807	25						
	13:00	78° 34.97	00° 25.94	9.4	357.6	2757	25						Relaxation
	13:15	78° 37.44	00° 26.10	9.5	359.4	2721	40						
	13:30	78° 39.95	00° 26.10	9.7	0	2595	15						
	13:45	78° 42.28	00° 26.00	9.5	2.8	2323	15						
	14:00	78° 44.58	00° 26.67 W	9.7	352.5	2358	20					Kristine	
	14:15	78° 47.03	00° 26.79	9.2	355.2	2676	5						
	14:30	78° 49.57	00° 27.79	9.9	356.9	2689	1						
	14:45	78° 51.78	00° 28.10	10.2	358.2	2673	1						
	15:00	78° 54.37	00° 28.01	10.3	4.0	2662	1						
	15:15	78° 56.92	00° 28.25	9.4	356.8	2638	1						
	15:30	78° 59.21	00° 28.29	9.2	1.4	2538	1						
	15:45	79° 01.55	00° 28.29	9.2	0.1	2492	1						
	16:00	79° 03.75	00° 28.38	9.5	357.9	2539	20					Vorona	
	16:15	79° 06.15	00° 29.02	10.0	352.4	2605	15						
	16:30	79° 08.61	00° 29.43	9.4	7.1	2721	1						
	16:45	79° 10.87	00° 28.83	9.8	362.4	2250	20						
	17:00	79° 13.85	00° 28.8	9.5	1.2	2755	25						
	17:15	79° 15.89	00° 28.72	10.0	358.9	2798	30						
	17:30	79° 18.40	00° 28.57	10.1	0.3	2809	1						



Date	Time	Latitude	Longitude	Speed	Course	Waterdepth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
5-10-91	17:45	79° 20.71	0° 28.81	9.9	360	2838	30	600	200	4.1	11	Vargus	
	18:00	79° 23.26	0° 28.90	9.6	353.7	2835	30	"	"	"	11	Todley	
	18:15	79° 23.95	0° 30.30	8.5	268.5	2831	30	"	"	"	11	"	
	18:30	79° 24.07	0° 41.83	6.9	348.1	2781	30	"	"	"	11	GARD	
	18:45	79° 22.63	0° 40.55	9.2	183.2	2772	30	"	"	"	11	"	
	19:00	79° 20.22	0° 40.91	10.2	182.9	2772	30	"	"	"	11	Todley	
	19:15	79° 17.82	0° 41.03	10.1	180.1	2779	30	"	"	"	11	"	
	19:30	79° 15.40	0° 41.27	9.5	179.5	2768	30	"	"	"	11	"	
	19:45	79° 13.08	0° 41.06	9.2	179.4	2746	25	"	"	16	11	"	
	20:00	79° 10.62	0° 41.14	9.9	181.0	2633	20	"	"	14	11	"	
	20:15	79° 08.17	0° 41.28	10.3	178.7	2553	20	"	"	14	11	"	
	20:30	79° 05.66	0° 40.74	10.1	176.9	2620	35	"	"	16	11	"	
	20:45	79° 03.02	0° 40.58	10.6	180.0	2560	30	"	"	16	11	"	
	21:00	79° 00.41	0° 40.80	10.5	182.7	2532	15	"	"	"	11	GARD	
	21:15	78° 57.75	0° 41.06	10.4	180.1	2651	20-30	"	"	"	11	"	
	21:30	78° 55.22	0° 40.95	9.9	177.8	2680	"	"	"	"	11	"	
	21:45	78° 52.85	0° 40.86	9.6	179.2	2679	20	"	"	"	11	"	
	22:00	78° 50.36	0° 40.77 W	10.0	178.2	2687	20	"	"	"	11	FREDERICKS	
	22:15	78° 47.89	0° 38.48	10.3	162.9	2420	?	"	"	5.5	8	"	
	22:30	78° 45.43	0° 37.78	8.5	184.9	2391	20	"	"	"	11	"	
	22:46	78° 43.37	0° 37.99	7.1	183.4	2595	3	"	"	"	11	"	
	23:00	78° 41.81	0° 38.44	7.2	180.2	2692	20	"	"	"	11	"	
	23:15	78° 39.96	0° 39.01	7.7	183.9	2729	20	"	"	4	4	"	
	23:30	78° 37.38	0° 39.93	6.3	184.6	2755	20	"	"	4	4	"	
	23:45	78° 36.58	0° 40.39	6.6	185.6	2795	15	"	"	4	4	"	
6-10-91	00:00	78° 35.08	0° 40.27 W	5.6	273.5	2818	15-20	"	"	4	4	MORAN	course change
	00:15	78° 34.93	0° 50.09 W	5.9	270.6	2820	20-25	"	"	"	11	"	
	00:30	78° 34.24	0° 51.75 W	6.2	2.5	2809	20-25	"	"	"	11	"	
	00:45	78° 37.16	0° 51.49 W	4.5	4.3	2804	20-25	"	"	"	11	"	
	01:00	78° 38.03	0° 51.19 W	5.7	5.6	2797	20-25	"	"	"	11	"	
	01:15	78° 39.54	0° 51.01 W	6.4	354.1	2800	20-25	"	"	"	11	"	
	01:32	78° 40.96	0° 50.99 W	4.8	0	2768	20-25	"	"	"	11	"	
	01:48	78° 42.66	0° 50.98 W	6.7	35.5	2721	"	"	"	"	11	"	
	02:02	78° 43.79	0° 50.84	6.0	357	2683	"	"	"	"	11	Spelling	
	15	78° 45.03	0° 50.21	8.6	6.5	2697	"	"	5.5	5	5	Spelling	
	30	78° 47.32	0° 49.92	9.5	357	2694	40-50	"	"	5.5	5	"	
	45	78° 48.93	0° 50.86	9.6	347	2425	30	"	"	5.5	5	"	
	03:00	78° 50.76	0° 50.95	9.6	360	2669	30	"	"	5.5	5	"	
2300	03:15	78° 53.53	0° 51.09	9.9	360	2661	"	"	"	5.5	5	"	

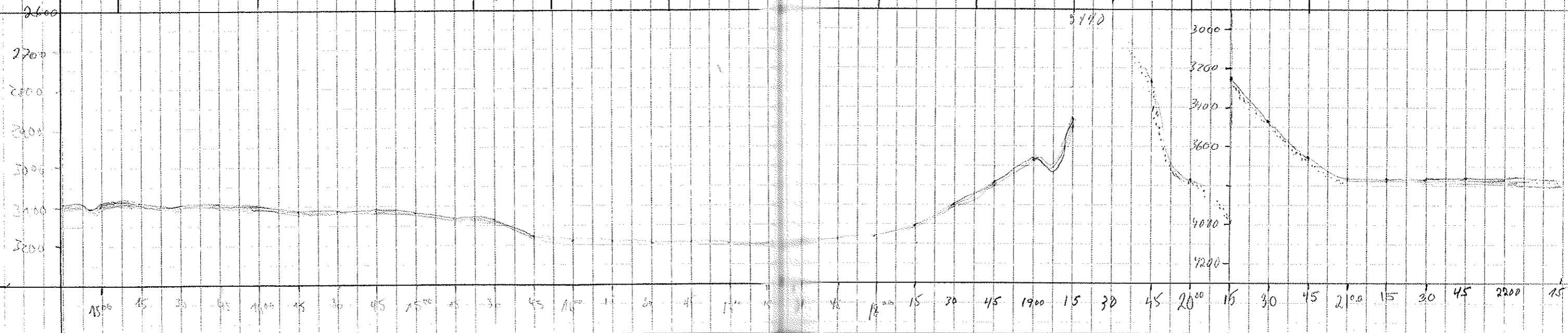


Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
06.10.91	0330	78° 54.80	0° 57.01' W	7.7	266	2663	30	006	200	4	4	Spielholz	
		78° 54.99	1° 03.88' W	8.8	278	2672	4	u	u	u	u		
	0400	78° 53.74	01° 04.07	9.8	178.9	2662	u	u	u	u	u		Nach Hause!
	0415	78° 51.22	01° 03.86	9.5	180.2	2651	30/11	u	u	u	u	Bergmann	abba schlotnickst
	0430	78° 49.57	01° 03.37	5.6	168.8	2579	20	u	u	4.5.5	4/8		Backup ARK 836
	0505	78° 46.06	01° 03.94	7.3	183.7	2687	20-70	u	u	u	8		430-500
	0515	78° 44.83	01° 04.13	6.2	177.5	2775	u	u	u	u	8		
	0530	78° 43.46	01° 04.03	7.9	172.8	2778	u	u	u	u	4		
	0545	78° 42.32	01° 03.97	4.6	178.3	2760	u	u	u	u	u		
	0600	78° 41.72	01° 03.86	5.8	178.3	2774	4	u	u	u	u		
	0615	78° 39.30 N	01° 03.86 W	7.7	1810	2788	30	000	200	4	4	Nowacki	
	0630	78° 37.58 N	01° 04.27 W	4.8	176.9	2817	30m	1	1	1	1		
	0645	78° 36.06 N	01° 04.34 W	7.9	175.3	2834	1	1	1	1	1		
	0700	78° 33.93 N	01° 04.12 W	5.3	177.5	2844	1	1	1	1	1		
	0715	78° 32.40 N	01° 04.33 W	4.0	215.6	2853	1	1	1	1	1		
	0730	78° 30.26 N	01° 02.93 W	7.9	85.2	2855	1	1	1	1	1		
	0745	78° 32.43 N	00° 56.77 W	7.6	88.4	2865	1	1	1	1	1		
	0800	78° 32.44 N	00° 46.44 W	10.0	91.6	2844	1	1	1	1	1		
	0815	78° 31.95	00° 41.68 W	9.5	178.6	2850	u	u	u	u	u	BRASS	
	0830	78° 29.62	00° 40.98 W	10.2	176.7	2872	u	u	u	u	u		
	0845	78° 27.19	00° 41.01 W	9.9	182.1	2900	5	u	u	u	u		
	0900	78° 24.64	00° 41.26 W	9.8	180.1	2895	10	u	u	u	u		
	0915	78° 22.44	00° 41.20 W	9.4	177.6	2966	u	u	u	u	u		
	0930	78° 20.07	00° 40.52 W	9.2	176.7	2988	u	u	u	u	u		
	0945	78° 17.71	00° 39.78 W	9.1	175.4	3040	30	u	u	u	u		
	1000	78° 15.21	00° 40.53	9.5	184.8	3045	30	u	u	u	u		
	1015	78° 12.85	00° 41.84	9.8	185.5	3052	30	u	u	u	u		
	1030	78° 10.47	00° 40.90	9.3	178.1	3062	30	u	u	u	u		
	1045	78° 08.12	00° 41.11	8.3	179.3	3075	30	u	u	u	u		
	1100	78° 05.85	00° 40.94	9.0	178.2	3073	30	u	u	u	u		
	1115	78° 03.78	00° 41.03	9.0	182.7	3075	30	u	u	u	u		
	1130	78° 01.57	00° 41.95	9.3	185.3	3080	30	u	u	u	u		
	1145	77 59.24	00° 44.87	9.4	194.9	3092	30	u	u	u	u		
	1200	77 57.08	00° 47.61	9.7	194.0	3093	30	u	u	u	u		
	1215	77 54.52	00° 56.39	9.4	192.4	3089	20	u	u	u	u		
	1230	77 52.28	00° 53.10	9.5	194.7	3092	20	u	u	u	u		
	1245	77 49.69	01° 06.18	4.6	195	3096							

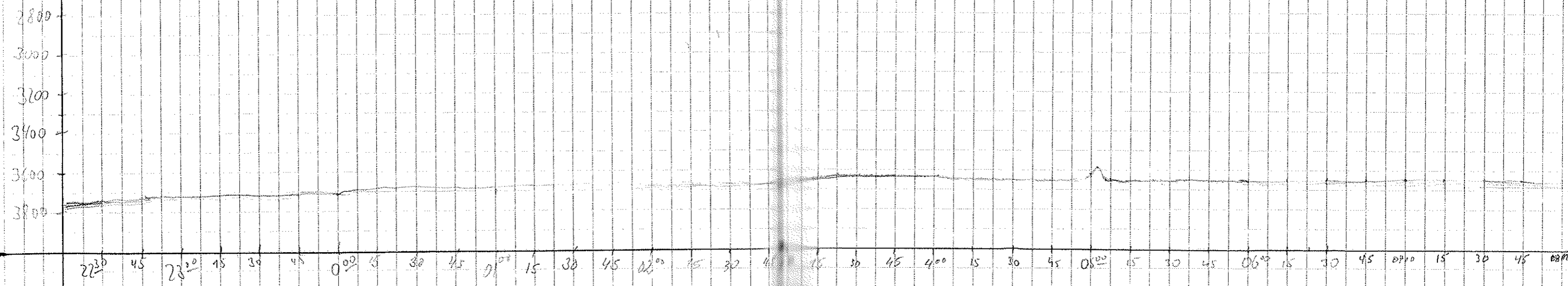


Date	Time	Latitude	Longitude	Speed	Course	Wind depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
16.10	13 ⁰⁸	77° 46.65 N	09° 59.94 W	11.8	195	3089	20	5000	200	4	4	Schubert	
	13 ¹⁵	77° 45.99	10° 02.09	9.7	195.3	3088	15	"	"	"	"	"	
	13 ²⁸	77° 42.62	10° 05.42	9.5	195.5	3093	20	"	"	"	"	"	
	13 ⁴⁵	77° 39.98	10° 08.69	12.1	193.9	3088	20	"	"	"	"	"	
	14 ⁰⁰	77° 37.62	10° 11.51	9.9	195.64	3084	20	"	"	"	"	"	
	14 ¹⁵	77° 35.02	10° 14.79	9.8	196.4	3116	-	"	"	"	"	"	Venera
	14 ³⁰	77° 32.67	10° 17.53	10.0	194.4	3114	-	"	"	"	"	"	"
	14 ⁴⁵	77° 30.11	10° 20.18	10.1	194.9	3105	-	"	"	"	"	"	"
	15 ⁰⁰	77° 27.72	10° 23.22	10.1	194.9	3106	-	"	"	"	"	"	"
	15 ¹⁵	77° 25.34	10° 26.23	9.9	194.0	3104	-	"	"	"	"	"	"
	15 ³⁰	77° 22.94	10° 28.79	9.8	196.0	3137	-	"	"	"	"	"	"
	15 ⁴⁵	77° 20.71	10° 31.70	10.1	194.6	3125	-	"	"	"	"	"	"
	16 ⁰⁰	77° 18.41	10° 34.84	9.6	195.7	3172	30	"	"	"	"	"	Venera
	16 ¹⁵	77° 16.03	10° 37.33	9.7	194.1	3181	-	"	"	"	"	"	"
	16 ³⁰	77° 13.60	10° 40.00	9.9	195.4	3186	25	"	"	"	"	"	"
	16 ⁴⁵	77° 11.28	10° 42.11	10.7	197.2	3188	10	"	"	"	"	"	"
	17 ⁰⁰	77° 08.91	10° 44.44	10.2	198.3	3188	10	"	"	"	"	"	"
	17 ¹⁵	77° 06.46	10° 47.01	10.3	194.9	3192	10	"	"	"	"	"	"
	17 ³⁰	77° 04.83	10° 50.53	10.6	193.5	3194	10	"	"	"	"	"	"
	17 ⁴⁵	77° 01.53	10° 54.05	9.8	196.7	3153	10	"	"	"	"	"	"
	18 ⁰⁰	76° 59.14	10° 56.71	10.1	196.5	3172	10	"	"	"	"	"	GARD
	18 ¹⁵	76° 56.75	10° 59.61	10.0	195.0	3142	10	"	"	"	"	"	"
	18 ³⁰	76° 54.29	11° 02.51	10.2	193.4	3100	20	"	"	"	"	"	Jodrey
	18 ⁴⁵	76° 51.86	11° 05.05	10.0	193.2	3048	20	"	"	"	"	"	"
	19 ⁰⁰	76° 49.33	11° 08.23	10.2	195.9	2979	15	"	"	"	"	"	"
	19 ¹⁵	76° 46.84	11° 10.85	10.4	192.8	2873	2.5	"	"	"	"	"	"
	19 ³⁰	76° 44.26	11° 13.79	10.0	196.0	2574	-	"	"	"	"	"	"
	19 ⁴⁵	76° 41.88	11° 16.81	10.7	194.5	2791	25	"	"	5.5	8	"	GARD
	20 ⁰⁰	76° 39.40	11° 19.59	10.6	195.6	3089	10	"	"	4	4	"	"
	20 ¹⁵	76° 36.92	11° 22.53	9.9	195.5	3248	20	"	"	"	"	"	"
	20 ³⁰	76° 34.45	11° 25.22	10.7	195.7	3722	10	"	"	"	"	"	"
	20 ⁴⁵	76° 32.05	11° 27.87	9.7	193.2	3665	15	"	"	"	"	"	"
	21 ⁰⁰	76° 29.57	11° 30.60	10.3	194.7	3764	20	"	"	"	"	"	"
	21 ¹⁵	76° 27.20	11° 33.30	9.8	196.6	3764	15	"	"	"	"	"	"
	21 ³⁰	76° 24.82	11° 36.99	10.3	193.3	3763	10	"	"	"	"	"	"
	21 ⁴⁵	76° 22.34	11° 40.33	10.1	191.4	3763	18	"	"	"	"	"	Jodrey
	22 ⁰⁰	76° 19.90	11° 43.92	10.3	195.6	3765	18	10	"	"	"	"	"
	22 ¹⁵	76° 17.32	11° 47.98 W	10.3	195.1	3769	15	"	"	4	4	"	FROBERTAS

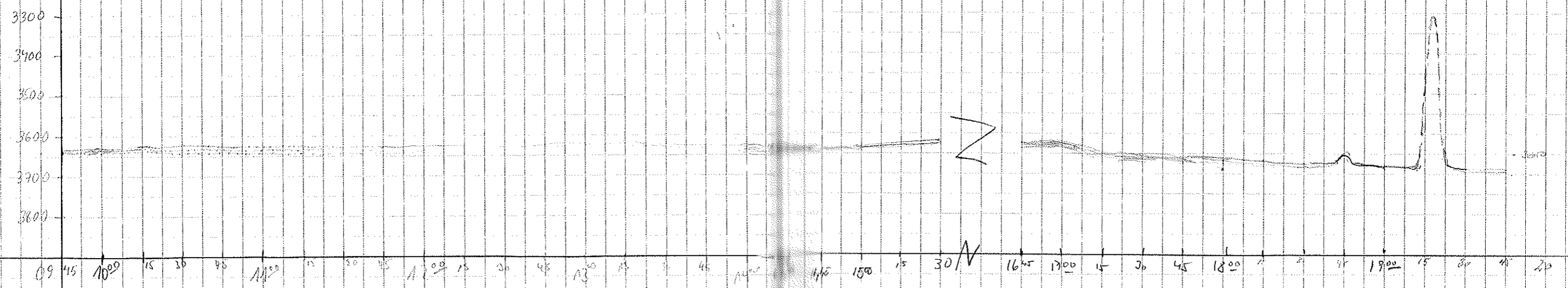
steep slope pool
Records.



Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
06.10	2230	76°17.88 N	2°46.81 W	10.3	195.0	3767	10	5000	200	4	4	FREDEBERG	
	2244	76°12.44	2°49.57	10.3	195.3	3761	10	"	"	"	"	"	
	2300	76°10.03	2°52.17	10.2	194.3	3751	10	"	"	"	"	"	
	2315	76°07.50	2°54.87	10.2	194.6	3744	10-15	"	"	"	"	"	
	2330	76°04.94	2°57.63	10.5	195.94	3737	20	"	"	"	"	"	
	2345	76°02.47	3°00.38	10.4	194.6	3727	20	"	"	"	"	"	
07.10	0000	76°00.11	3°03.09 W	10.4	196	3696	30	"	"	"	"	Bergsten	Rechart 0615
	0015	75°57.22	3°06.37 W	10.3	195	3689	30	"	"	"	"	"	
	0030	75°55.11	3°08.63 W	10.6	194	3691	30	"	"	"	"	"	
	0045	75°52.62	3°11.33 W	10.2	196	3693	30	"	"	"	"	"	
	0100	75°50.23	3°13.96 W	10.3	195	3694	20	"	"	"	"	"	
	0115	75°47.69	3°16.43 W	10.1	193	3688	20	"	"	"	"	"	
	0130	75°45.14	3°19.19 W	10.2	194	3679	20	"	"	"	"	"	
	0145	75°42.74	3°21.63 W	10.4	195	3669	25	"	"	"	"	"	
	0200	75°40.29	3°24.39 W	10.5	196	3679	25	"	"	"	"	"	
	0215	75°37.81	03°26.99	10.4	193	3682	20-30	"	"	"	"	Bergmann	
	0230	75°35.19	03°29.40	10.2	194	3685	"	"	"	"	"	"	
	0245	75°32.82	03°31.88	10.2	199	3681	"	"	"	"	"	"	
	0300	75°30.82	03°34.68	10.0	195	3678	"	"	"	"	"	"	
	0315	75°27.29	03°37.30	10.9	195	3669	"	"	"	"	"	"	
	0330	75°25.46	03°39.38	10.3	195	3666	"	"	"	"	"	"	
	0345	75°23.89	03°42.45	11.0	195	3663	"	"	"	"	"	"	
	0400	75°20.48	03°45.02	10.4	195	3661	"	"	"	"	"	"	
	0415	75°18.05	03°47.65	10.5	195.4	3653	"	"	"	"	"	"	
	0430	75°15.63	03°50.09	10.4	195.4	3652	"	"	"	"	"	"	
	0445	75°13.20	03°52.51	9.7	193.6	3650	"	"	"	"	"	"	
	0500	75°10.54	03°55.16	9.7	192.8	3615	"	"	"	"	"	"	
	0515	75°08.18	03°57.52	10.2	193.1	3647	"	"	"	"	"	"	
	0530	75°05.96	03°59.87	10.3	196.5	3638	"	"	"	"	"	"	
	0545	75°03.49	04°02.21	10.0	192.0	3674	"	"	"	"	"	"	
	0600	75°01.22	04°05.67	7.6	230.7	3644	"	"	"	"	"	"	
	0615	75°00.41	4°08.47	4.4	346.1	3643	20	"	"	"	"	"	
	0630	75°00.52	4°08.85	1.2	7.1	3643	20	"	"	"	"	"	
	0645	75°00.64	4°09.03	1.5	262.3	3643	20	"	"	"	"	"	
	0700	75°00.82	4°09.11	1.8	26.0	3642	20	"	"	"	"	"	
	0715	75°01.02	4°09.00	1.0	228.9	3642	20	"	"	"	"	"	
	0730	75°01.05	4°09.30	1.3	257.5	3642	20	"	"	"	"	"	
	0745	75°01.18	4°09.21	1.4	198.8	3642	20	"	"	"	"	"	
	0800	75°01.11	4°07.15	3.1	6.7	3644	20	"	"	"	"	"	
	815	75°01.82	4°06.79	2.7	60.0	3643	"	"	"	3.5	"	"	
	830	75°01.89	4°03.92	3.5	127.9	3645	"	"	"	4	"	"	

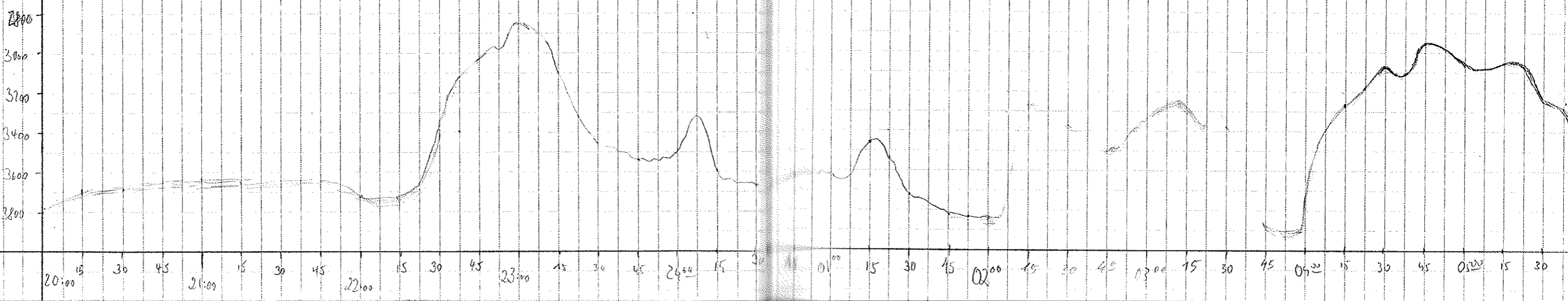


Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
07.10.91	08 45	75° 01.32	4° 01.09	7.6	186.4	3648	15	5000	200	3.5	4	GARD	
	9 36	75° 00.78	4° 09.02	3.2	94	3643	15	"	"	4	4	"	DATENSCHLEPPUNG bis 9 ³⁰ ARKOS
	9 45	75° 01.19	4° 08.57	0.2	200.2	3643	"	"	"	"	"	"	
	10 00	75° 01.44 N	4° 08.62 W.	4	409.	3643	"	"	"	"	"	FREDERICKS	
	10 15	75° 01.21	4° 09.00	1.0	186.5	3643	15-20	"	"	"	"	"	
	10 32	75° 01.32	4° 08.24	1.6	45.9	3640	"	"	"	"	"	"	
	10 45	75° 01.47	4° 07.54	1.7	53.0	3644	"	"	"	"	"	"	
	11 02	75° 01.64	4° 06.80	1.3	52.9	3644	"	"	"	"	"	"	
	11 15	75° 01.79	4° 06.26	0.4	36.5	3644	"	"	"	"	"	"	
	11 37	75° 01.97	4° 05.46	1.7	46.6	3644	"	"	"	"	"	"	
	11 45	75° 02.02	4° 05.23	1.0	45.9	3645	"	"	"	"	"	"	
	12 00	75° 02.06	4° 04.41	2.9	151.2	3645	"	"	"	"	"	"	W. J. J. J.
	12 15	75° 01.55	4° 04.49	1.4	199.8	3646	"	"	"	"	"	"	
	12 30	75° 01.03	4° 04.33	1.8	191.4	3646	"	"	"	"	"	"	
	12 45	75° 00.59	4° 04.58	2.8	196.2	3647	"	"	"	"	"	"	
	13 00	75° 00.25	4° 05.91	1.6	266.0	3645	"	"	"	"	"	"	
	13 15	75° 00.41	4° 07.70	1.3	254.8	3645	"	"	"	"	"	"	
	13 30	75° 00.62	4° 09.50	3.4	309.0	3648	"	"	"	"	"	"	
	13 45	75° 01.06	4° 11.78	2.0	299.0	3641	"	"	"	"	"	"	
	14 00	75° 01.467	4° 11.138	2.7	284.4	3639	15-20	5000	200	4	4	A. J. J.	
	14 15	75° 01.841	4° 16.593	3.0	299.3	3636	"	"	"	"	"	"	
	14 30	75° 02.184	4° 18.915	3.8	306.6	3633	"	"	"	"	"	"	
	14 45	75° 02.627	4° 21.421	3.1	306.2	3630	15	"	"	"	"	"	
	15 00	75° 03.039	4° 24.023	3.8	309.1	3628	"	"	"	"	"	"	
	15 15	75 03.43	4° 26.498	4.1	304.4	3625	"	"	"	"	"	"	MORAN
	15 30	75° 03.75	4° 28.91 W	2.6	290.5	3623	"	"	"	"	"	"	MOSIER
	15 45	75 03.34	4 28.36	9.3	155	3623	"	"	"	"	"	"	"
	16 00	75° 01.91	4° 23.42 W	8.0	97.8	3629	"	"	"	"	"	"	"
	16 45	75 00.71	004 05 01 W	7.0	23.9	3645	20	5000	200	4	4	Threda	
	17 00	75° 00.18	3° 59.12	8.6	122	3649	"	"	"	"	"	"	"
	17 15	74 53.09	003 52 54	9.1	126	3654	"	"	"	"	"	"	"
	17 30	74 57.75	003 44 30	8.0	123.9	3655	"	"	"	"	"	"	"
	17 45	74 56.63	003 35 25	8.7	121.2	3661	"	"	"	"	"	"	"
	18 02	74 55.34	003	Feldw. Programm									
	18 15	74 54.24	003 24 02	8.1	123.6	3668	15	5000	200	4	4	V. J. J.	
	18 30	74 53.05	003 18 05	7.6	125.8	3672	20	"	"	"	"	"	"
	18 45	74 51.10	003 11 30	8.9	122.0	3653	15	"	"	"	"	"	"
	19 00	74 50.48	003 09 20	8.2	124.3	3655	"	"	"	"	"	"	"
	19 15	74 49.13	002 55 64	8.6	125.9	3318	"	"	"	"	"	"	"
	19 31	74 48.17	002 50 39	8.9	125.5	3687	15	"	"	"	8	"	"
	19 45	74 46.85	002 42 27	9.1	124.2	3688	"	"	"	"	"	"	"



Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Remarks
07.10.91	20:22	74° 45.85	002 37.12	8.7	119.7	3640	15	0006	200	4	4	Vorrek Kassens	
	20:15	74° 44.6	2° 29.16	8.4	123	3647	10						
	20:30	74° 43.2	2° 21.2	8.7	123	3648	10						
	20:45	74° 42.1	2° 15.2	8	123	3639	10						
	21:00	74° 40.8	2° 02.2	10.3	123	3627	30						
	21:15	74° 39.5	1° 59.9	10.2	124	3630	20						
	21:30												
	21:45	74° 37.02	1° 46.5	8.5	125	3632	20						
	22:00	74° 35.30	1° 30.51 W	8.0	125	3727	20					Schubert	
	22:15	74° 34.42	1° 32.94	8.6	124.9	3725	30						
	22:30	74° 33.38	1° 26.84	8.5	123.2	3392	-						
	22:45	74° 32.20	1° 19.99	8.7	123.7	3029	-			5.5			
	22:55	74° 31.05	1° 13.43	8.5	121.5	2814	-			5.5			
	23:15	74° 29.97	1° 06.78	8.6	121.7	2100	-			5.5			
	23:30	74° 28.94	1° 00.91 W	7.1	121.1	3450	-						
	23:45	74° 27.93	0° 55.23	8.3	122	3530	-						
	24:00	74° 27.04	0° 50.19 W	6.2	119	3510	?			4	4	Bergstein	
08.10	00:15	74° 26.19	0° 44.46 W	6.8	122	3627	25						
	00:30	74° 25.31	0° 39.44 W	5.7	126	3672	30						
	00:45	74° 24.35	0° 34.96 W	7.6	122	3630	25						
	01:00	74° 23.44	0° 29.03 W	7.0	122	3603	25						
	01:15	74° 22.47	0° 23.71 W	7.0	122	3466	25						
	01:30	74° 21.57	0° 18.84 W	5.2	124	3615	40						
	01:45	74° 20.78	0° 14.37 W	6.0	125	3813	?						
	02:00	74° 19.93	0° 09.41 W	8.2	122	3833	40						
	02:15	74° 18.84	0° 03.37 W	5.7	126	3257	-				6/4	Bergstein	
	02:30	74° 17.90	0° 01.68	5.6	122.3	3397	30-40						
	02:45	74° 17.00	0° 06.71	6.6	120.2	3508	u						
	03:00	74° 16.13	0° 11.86	6.9	124.1	3365	u						
	03:15	74° 15.23	0° 17.66	7.9	121.3	3255	50-60						
	03:30	74° 14.02	0° 23.57	7.9	123.8	3397	?						
	03:45	74° 12.78	0° 29.32	6.7	125.2	3804	?						
	04:00	74° 12.27	0° 33.71	6.6	123.3	3704	?						
	04:15	74° 11.15	0° 39.29	6.6	123.4	3268	?					Sters	
	04:30	74° 10.16	0° 45.30	6.4	123	3065	?						
	04:45	74° 09.19	0° 50.70	6.1	125	2952	?						
	05:00	74° 08.27	0° 55.70	7.9	122	3085	?						
	05:15	74° 07.19	1° 01.67	8.0	125	3024	40						
	05:30	74° 05.95	1° 08.33	7.9	122	3235	?						
	05:45	74° 04.95	1° 13.90	7.6	127	3391	30-40						

Rolle 13 ↓



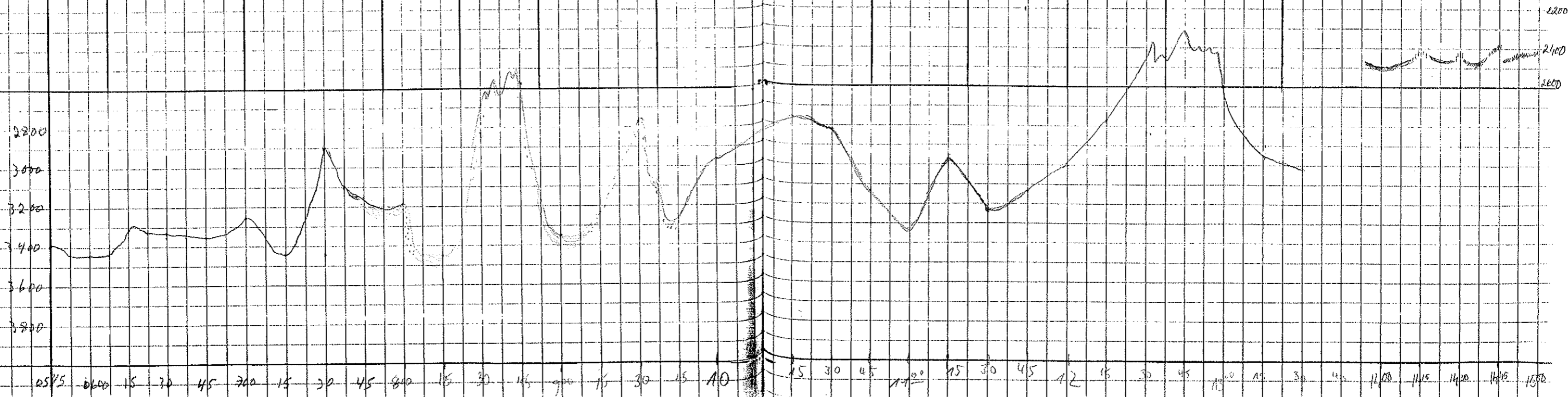
Date	Time	Latitude	Longitude	Speed	Course	Water depth	Distortion	Range	Scale	Frequency	# of Pulses	Name	Comments
08/10/91	0600	74° 04.12	1° 19.18	6.9	117.3	3446	60	5000	200	4	8	Jodrey	
	0615	74° 03.25	1° 24.95	7.9	120.8	3313	60	"	"	"	"	"	
	0630	74° 02.20	1° 30.67	8.3	124.3	3342	40	"	"	"	"	"	
	0645	74° 01.12	1° 36.59	8.1	124.3	3355	60	"	"	"	"	"	
	0700	74° 00.00	1° 41.69	7.2	122.5	3269	60	"	"	"	"	"	
	0715	73° 58.95	1° 47.54	8.0	124.7	3447	60	"	"	"	"	"	
	0730	73° 57.80	1° 53.36	7.9	123.9	2895		"	"	"	"	"	Poor Record
	0745	73° 56.68	1° 59.39	7.7	121.5	3161	50	"	"	"	"	"	Slope
	0800	73° 55.60	2° 05.29	8.1	121.1	3190	60	"	"	"	"	"	
	0815	73° 54.54	2° 11.16	8.4	121.4	3454	50	"	"	4	4	GARD	
	830	73° 53.50	2° 16.92	7.7	123.2	2829	diffuse	"	"	5.5	8	"	
	845	73° 52.50	2° 22.37	7.1	126.9	2685	"	"	"	"	"	"	
	900	73° 51.46	2° 28.06	8.6	123.2	3354	"	"	"	4.5	4	"	
	915	73° 50.41	2° 33.90	7.8	124.9	3223	"	"	"	"	6	"	
	930	73° 49.32	2° 39.62	7.3	121.6	2782	"	"	"	3.5	8	"	
	945	73° 48.29	2° 45.51	8.1	122.4	3286	"	"	"	4	4	"	
	1003	73° 46.92	2° 52.22 E	7.4	122.9	2988	2	"	"	5.5	5	FREDE RIGGS	
	1016	73° 46.23	2° 57.98	7.9	121.9	2755	2	"	"	"	4	"	
	1031	73° 44.90	3° 03.68	7.6	126.5	2873	2	"	"	"	4	"	
	1046	73° 43.77	3° 09.68	8.9	124.5	3138	2	"	"	"	4	"	
	1102	73° 42.75	3° 15.41	8.1	124.1	3333	2	"	"	"	4	"	
	1116	73° 41.52	3° 22.77	8.4	124.8	2942	2	"	"	"	4	"	
	1130	73° 40.40	3° 28.10	8.5	121.5	3220	2	"	"	"	4	"	
	1144	73° 39.33	3° 43.11	8.4	127.7	3129	2	"	"	"	4	"	
	1200	73° 38.11	3° 40.47	8.9	125.3	3103	2	"	"	"	4	"	K. S. etc
	1215	73° 36.89	3° 46.72	8.3	124.2	2724	2	"	"	"	4	"	
	1230	73° 35.61	3° 53.58	8.8	127.8	2478	2	"	"	"	4	"	
	1245	73° 34.39	4° 00.17	8.3	123.8	2328	2	"	"	"	4	"	
	1300	73° 33.39	4° 05.31	8.6	123.8	2663	2	"	"	"	4	"	
	1315	73° 31.83	4° 13.62	8.3	122.4	3049	2	"	"	"	4	"	
	1330	73° 31.02	4° 18.19	8.8	118.5	3005	2	"	"	"	4	"	
	1345	73° 29.86	4° 24.94	8.6	115.3	2669	2	"	"	"	4	"	
	1400	73° 28.580	4° 31.355	8.5	127.2	2404	0	5000	200	5.5	8	A. ZIF	
	1415	73° 27.301	4° 37.527	8.8	122.6	2372	0	"	"	"	"	"	
	1430	73° 26.198	4° 43.607	9.1	122.4	2375	10	"	"	"	"	"	
	1445	73° 24.980	4° 50.626	9.3	123.6	2307	0	"	"	"	"	"	

Poor Record
Slope

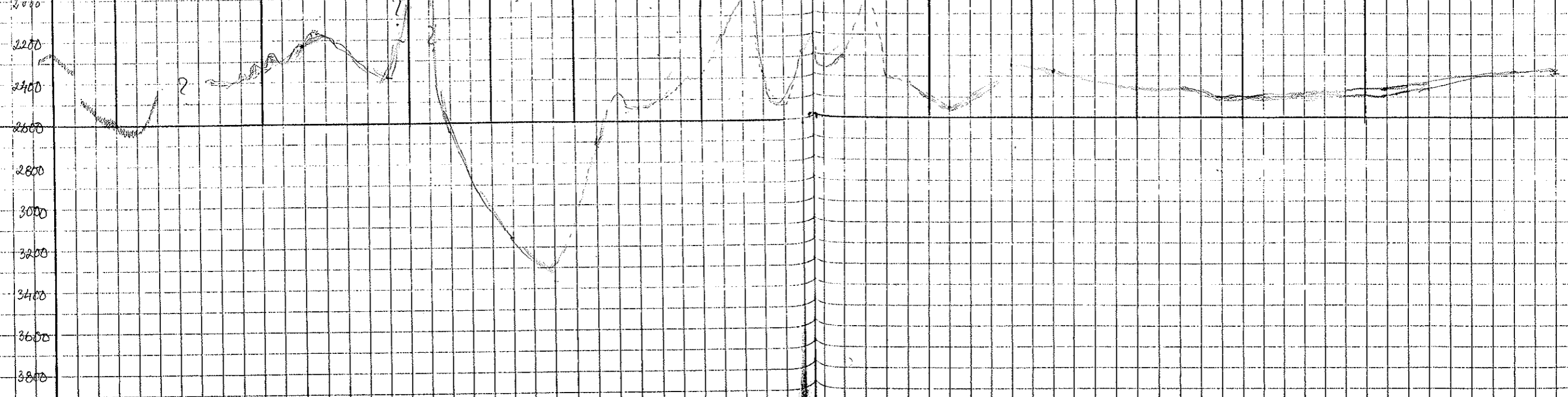
FREDE RIGGS

K. S. etc

A. ZIF



Date	Time	Lat. Long.	Latitude	Longitude	Speed	Course	Water depth	Direction	Range	Scale	Frequency	# of Pulses	Name	Comments
08.10.91	1500	73° 23' 74.8 N	4° 57' 11.5 E	8.3	122.8	23211	40	5000	200	5.5	8	A. LIF	15 40 Barbup ARK 830 16 10 brandt	
	1515	73° 22' 65.5	5° 03' 11.9	8.9	122.3	2569	30	-	-	-	-	-		
	1530	73° 21' 48.6	5° 09' 4.4	8.6	121.5	2625	20	-	-	-	-	-		
	1620	73 17 60 N	005 29 53 E	8.2	124.1	2293	20	"	"	"	"	"		Thick
	1630	73 16 64 N	005 34 32 E	8.5	125.1	2273	20	"	"	"	"	"		"
	1645	73 15 53	005 40 26	8.4	122.8	2237	20	"	"	"	"	"		"
	1700	73 14 29	005 46 98	8.6	122.2	2397	20	"	"	4	8	"		"
	1718	73 12 85	05° 59' 15	8.5	122	1876	20	"	"	4	8	"		"
	1732	73 11 75	006 00 17	9.1	120.7	2670	20	"	"	"	"	"		"
	1745	73 10 71	006 05 48	8.9	121.5	2164	10	"	"	"	"	"		"
	1800	73 09 66	006 12 05	9.1	125.4	3360	"	"	"	"	"	"		"
	1818	73 08 02	006 19 75	8.6	123.7	2203	"	"	"	"	"	"		Vortex
	1830	73 07 09	006 27 90	8.6	120.6	2538	"	"	"	"	"	"		"
	1845	73 05 89	006 31 41	8.9	123.5	2411	"	"	"	"	"	"		"
	1900	73 04 07	006 37 76	8.6	122.2	2036	"	"	"	"	"	"		"
	1915	73 03 51	006 43 59	8.2	124.8	2396	"	"	"	"	"	"		"
	1930	73 02 32	006 49 28	8.7	124.2	2175	"	"	"	"	"	"		"
	1946	73 00 43	006 57 11	9.3	127.0	2303	"	"	"	"	"	"		"
	2001	72 59 73	007 03 12	9.0	124.3	2419	"	"	"	"	"	"		"
	2015	72 58 6 N	7° 08.7 E	9.3	124	2550	20	"	"	4	4	"		Kassens
2033	72 56 19	7° 17.5 E	9.2	124	2471	20	"	"	"	"	"	"		
2046	72 55 7	7° 23.7 E	10.6	127	2221	220	"	"	"	"	"	"		
2100	72 54 4	7° 30.6 E	10.3	122	2254	215	"	"	"	"	"	"		
2130	72 51.8	7° 43.2 E	8.6	121	2459	210	"	"	"	"	"	"		
2145	72 50.7	7° 50.8 E	9	112	2456	220	"	"	"	"	"	"		
2200	72 49 19	7° 56.05 E	9.3	124.6	2563	18	"	"	"	"	"	"	Schubert	
2215	72 48 52	8° 02.17 E	8.3	124.2	2442	18	"	"	"	"	"	"	"	
2230	72 47 03	8° 08.69 E	9.2	123.5	2484	18	"	"	"	"	"	"	"	
2245	72 45 20	8° 15.32 E	9.6	126.5	2479	25	"	"	"	"	"	"	"	
2300	72 44 36	8° 21.72 E	9.1	122.0	2459	25	"	"	"	"	"	"	"	
2315	72 43 15	8° 28.13 E	9.7	119.6	2446	25	"	"	"	"	"	"	"	
2330	72 41 25	8° 35.11 E	8.6	122.9	2436	25	"	"	"	"	"	"	"	
2345	72 40 63	8° 41.59 E	9.6	124	2421	25	"	"	"	"	"	"	Pingsten double reflector	
2359	72 39 47	8° 48.28 E	9.0	124	2405	20	"	"	"	"	"	"	"	



1500 1515 1530 1545 16 17 30 45 1700 30 45 1800 1 30 4 19 1 45 2000 15 30 45 2100 30 45 2200 15 30 45 2300 15 30 45 2400

Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
08.10.91	0015	72° 37.87	8° 55.33 E	9.7	123	2392	15	5000	200	4	4	Bergsten	
	0030	72° 36.77	9° 01.11 E	9.9	125	2372	30	"	"	"	"	"	double reflectors
	0045	72° 35.50	9° 07.46 E	9.7	125	2360	1	"	"	"	"	"	"
	0100	72° 34.21	9° 13.86	9.4	124	2347	20	"	"	"	"	"	"
	0115	72° 32.76	9° 20.72	9.5	124	2336	30	"	"	"	"	"	"
	0130	72° 31.38	09° 28.03	10.3	124	2328	30	"	"	"	"	Reguana	
	0145	72° 30.75	09° 34.13	9.9	123	2322	4	"	"	"	"	"	
	0200	72° 29.74	09° 41.68	9.8	123	2305	4	"	"	"	"	"	
	0215	72° 28.30	09° 48.91	10.7	124	2286	4	"	"	"	"	"	
	0230	72° 25.92	09° 59.75	9.5	125	2276	4	"	"	"	"	"	
	0245	72° 24.62	10° 02.28	10.7	123	2260	4	"	"	"	"	"	
	0300	72° 23.27	10° 09.13	9.5	125	2245	4	"	"	"	"	"	
	0315	72° 21.89	10° 15.89	9.3	124	2236	20	"	"	"	"	"	
	0330	72° 20.52	10° 22.72	10.0	124	2218	20	"	"	"	"	"	
	0345	72° 19.06	10° 30.25	10.0	126	2204	20-30	"	"	"	"	"	
	0400	72° 17.83	10° 36.65	9.8	123	2196	20	"	"	"	"	"	
	0415	72° 15.87	10° 46.09	10.1	122	2167	30	"	"	"	"	"	
	0430	72° 14.9	10° 50.7	9.9	123	2164	20	"	"	"	"	"	
	0445	72° 13.63	10° 56.99	10.1	124	2156	20-30	"	"	"	"	"	
	0500	72° 12.50	11° 04.24	10.3	124	2137	1	"	"	"	"	"	
	0515	72° 10.87	11° 10.83	10.2	123.6	2124	25	"	"	"	"	Tedley	
	0530	72° 09.48	11° 17.87	9.9	124.0	2120	20	"	"	"	"	"	
	0545	72° 08.05	11° 24.83	10.1	123.7	2104	20	"	"	"	"	"	
	0600	72° 06.70	11° 31.35	10.4	124.4	2091	25	"	"	"	"	"	
	0615	72° 05.33	11° 37.99	9.2	119.4	2075	20	"	"	"	"	"	
	0630	72° 03.94	11° 45.11	9.9	121.0	2053	25	"	"	"	"	"	
Local time (0800)	0645	72° 02.59	11° 51.80	10.6	127.4	2035	30	"	"	"	"	"	
	0700	72° 01.24	11° 58.13	10.1	122.1	2014	30	"	"	"	"	GARD	
	0715	71° 59.88	12° 04.98	10.4	123.7	1995	30	"	"	"	"	"	
	0730	71° 58.53	12° 11.81	9.0	121.7	1971	4	"	"	"	"	"	
	0745	71° 57.30	12° 18.08	9.8	120.2	1949	4	"	"	"	"	"	
	0800	71° 55.92	12° 24.70	9.4	125.8	1928	4	"	"	"	"	"	
	0815	71° 54.54	12° 31.14	9.2	126.3	1920	30	"	"	"	"	"	
	0830	71° 53.24	12° 37.52	9.4	118.8	1890	4	"	"	"	"	"	
	0845	71° 52.05	12° 44.84	10.1	126.3	1863	4	"	"	"	"	"	
	0900	71° 50.56	12° 51.32	10.2	128.0	1830	4	"	"	"	"	"	
	0915	71° 48.09 N	12° 59.72 E	10.4	122.0	1852	4	"	"	"	"	Fredericks	
	0930	71° 47.56	13° 04.89	9.1	129.2	1820	15	"	"	"	"	"	
	1000	71° 44.92	13° 18.12	9.6	122.6	1892	10	"	"	"	"	"	



0015 30 45 0100 15 30 45 0200 15 30 45 0300 15 30 45 0400 15 30 45 0500 15 30 45 0600 15 30 45 0700 15 30 45 0800 15 30 45 0900 15 30 45 1000

Date	Time	Latitude	Longitude	Speed	Course	Water depth	Penetration	Range	Scale	Frequency	# of Pulses	Name	Comments
9. 10.	10.15	71° 43. 52	13° 25. 09	10.4	122.3	1874	5-10	5000	200	4	4	FREDERICKS	
	10.30	71° 42. 17	13° 31. 43	10.0	122.4	1856	5-10	"	"	"	"	"	
	10.45	71° 40. 78	13° 37. 90	10.0	124.9	1757	20	"	"	"	"	"	
	11.00	71° 39. 36	13° 45. 00	10.3	119.5	1708	-	"	"	"	"	Vancouver	
	11.16	71° 37. 89	13° 52. 37	9.8	123.1	1679	-	"	"	"	"	"	
	11.30	71° 36. 33	13° 58. 54	9.6	122.6	1666	-	"	"	"	"	"	
	11.45	71° 35. 26	14° 04. 89	10.7	124.6	1657	-	"	"	"	"	"	
	12.00	71° 33. 77	14° 11. 36	9.8	125.5	1651	-	"	"	"	"	"	
	12.15	71° 32. 06	14° 19. 14	10.3	120.3	1637	-	"	"	"	"	"	
	12.30	71° 30. 74	14° 25. 73	10.9	119.4	1613	-	"	"	"	"	"	
	12.45	71° 29. 48	14° 32. 51	10.8	121.7	1590	30	"	"	"	"	"	
	13.00	71° 28. 006	14° 39. 831	11.0	124.7	1579	30	5000	200	4	4	A.A.F	
	13.15	71° 26. 481	14° 47. 318	11.3	123.8	1556	20	"	"	"	"	"	
	13.30	71° 24. 897	14° 54. 536	10.9	127.2	1533	20	"	"	"	"	"	DATA REDUCTION 40%
	13.45	71° 23. 296	15° 01. 168	11.0	122.3	1561	20	"	"	"	"	"	
	14.00	71° 21. 763	15° 08. 630	11.5	123.8	1559	25	"	"	"	"	"	
	14.15	71° 20. 225	15° 15. 942	11.4	122.2	1570	30	"	"	"	"	"	
	14.30	71° 18. 625	15° 23. 634	11.7	120.8	1583	30	"	"	"	"	"	Backup 25 40 APR 8 3 J 15 05 recorded
	14.45					1590	30	"	"	"	"	"	
	15.00	71° 14. 72	15° 42. 14	12.1	122	1628	30	"	"	"	"	"	
	15.15	71° 13. 97	15° 45. 72	12.9	124	1659	"	"	"	"	"	"	
	15.30	71° 12. 37	15° 53. 27	12.2	123	1636	"	"	"	"	"	"	
	15.45	71° 10. 97	15° 59. 77	10.1	123	1614	"	"	"	"	"	"	
	16.00	71° 08. 52	16° 07. 05	12.1	122	1579	20	"	"	"	"	"	
	16.15	71° 08. 07	16° 13. 90	11.5	126	1457	30	"	"	"	"	"	
	16.30	71° 06. 58	16° 20. 67	12.6	123	1430	10	"	"	"	"	"	
	16.45	71° 05. 12	16° 27. 42	9.9	123	1282	20-30	"	"	"	"	"	
	17.00	71° 03. 72	16° 33. 87	10.3	120	1134	10	"	"	"	"	"	
	17.15	71° 02. 35	16° 40. 51	10.7	122	1067	20	"	"	"	"	"	
	17.30	71° 00. 95	16° 46. 95	10.1	124	1041	20	"	"	"	"	"	
	17.45	70° 59. 57	16° 53. 35	9.1	124.1	836	15	"	"	"	"	"	
	18.00	70° 58. 28	16° 57. 72	9.4	124.5	702	"	"	"	"	"	"	
	18.15	70° 56. 98	17° 05. 57	9.7	121.3	574	"	"	"	"	"	"	
	18.30	70° 55. 54	17° 12. 18	9.6	126	415	"	"	"	"	"	"	
	18.45	70° 54. 05	17° 18. 99	9.5	112	325	"	"	"	"	"	"	
	19.00	70° 53. 00	17° 24. 13	9.4	125.5	308	"	"	"	"	"	"	
600	19.15	70° 51. 62	17° 29. 81	10.6	128	232	10	"	"	"	"	"	
	19.30	70° 50. 13	17° 36. 24	9.8	120	223	"	"	"	"	"	"	
800	19.45	70° 48. 75	17° 42. 96	10.8	125	227	"	"	"	"	"	"	
	20.00	70° 47. 38	17° 49. 48	9.9	122	238	"	"	"	"	"	"	

