

**German Research Vessel "Meteor"**  
**Cruise Leg M50/3**  
**St. John's (Canada) to Reykjavik (Island)**  
**June 21. to July 15. 2001**  
**Chief Scientist: Dr. J. Holfort**  
**Institut für Meereskunde**  
**Universität Hamburg**

**Short Cruise Report**

The RV METEOR left St. John's on June 21 and headed to 58°47,8 N 030°49,8 W, a point above the Mid-Atlantic-Ridge, arriving on June 25. From there a hydrographic section was taken towards the southern tip of Greenland. This section was a repeat of the western part of WOCE section A1E, the eastern part was occupied at the same time by RV COMMANDER JACK. Regretfully, due to problems with the CTD cable on RV COMMANDER JACK, the ships didn't meet and there is a time gap of 5 days between both parts.

This first section, the westernmost stations comprising also VEINS section 6, was finished on June 28. The hydrographic work continued with VEINS section 5, a section perpendicular to the continental shelf north of the first section. The CTD system worked very well and also showed no problems during the rest of the cruise. Station positions and section numbering are given in table 1 and shown in figure 1.

The survey of the next two sections was interrupted by mooring work. While CTD work can also be done during night and not so good weather, we needed daylight and fine weather for the mooring work. We recovered one and deployed two tube moorings at the western end of section 4. The tube could only be recovered in two pieces, but no instrument was lost. The deployment of the tubes, with a length of about 45m quite bulky, was much easier as expected. The weather was also very fine during deployment and we had a fantastic view of the Greenland coast. Along section 3 a total of eight moorings were successfully recovered and deployed.

After the mooring work we continued the hydrographic work with 3 sections perpendicular to the continental rise, connected with stations along a water depth of about 2000m. As the weather had been quite reasonable during the whole cruise, we had enough time to increase the spatial resolution of this last sections up to about 5 nautical miles between stations. Due to ice section 1 could not started as far north on the shelf as planned.

Along the CTD sections, although not at every station, water was sampled at 10 to 20 levels for analysis of CFC's. At some selected stations water samples were taken for the analysis of SF<sub>6</sub> in the overflow water, at other stations some samples were taken for the analysis of alkenones.

Continuos measurements were taken with up to two vessel mounted ADCP's. The pCO<sub>2</sub> in air and surface waters were analyzed, surface waters were filtered for the determination of alkenons and meteorological measurements were done on a routinely basis. The acquisition computer (an old 286) of the 150 Hz ADCP broke done on july 8 and could not be repaired. Also many of the data was also lost, because the hard disk couldn't be read from another computer. But the second ADCP with 75 Hz showed no problems during the whole cruise.

RV METEOR arrived in the port of Reykjavik on July 15.

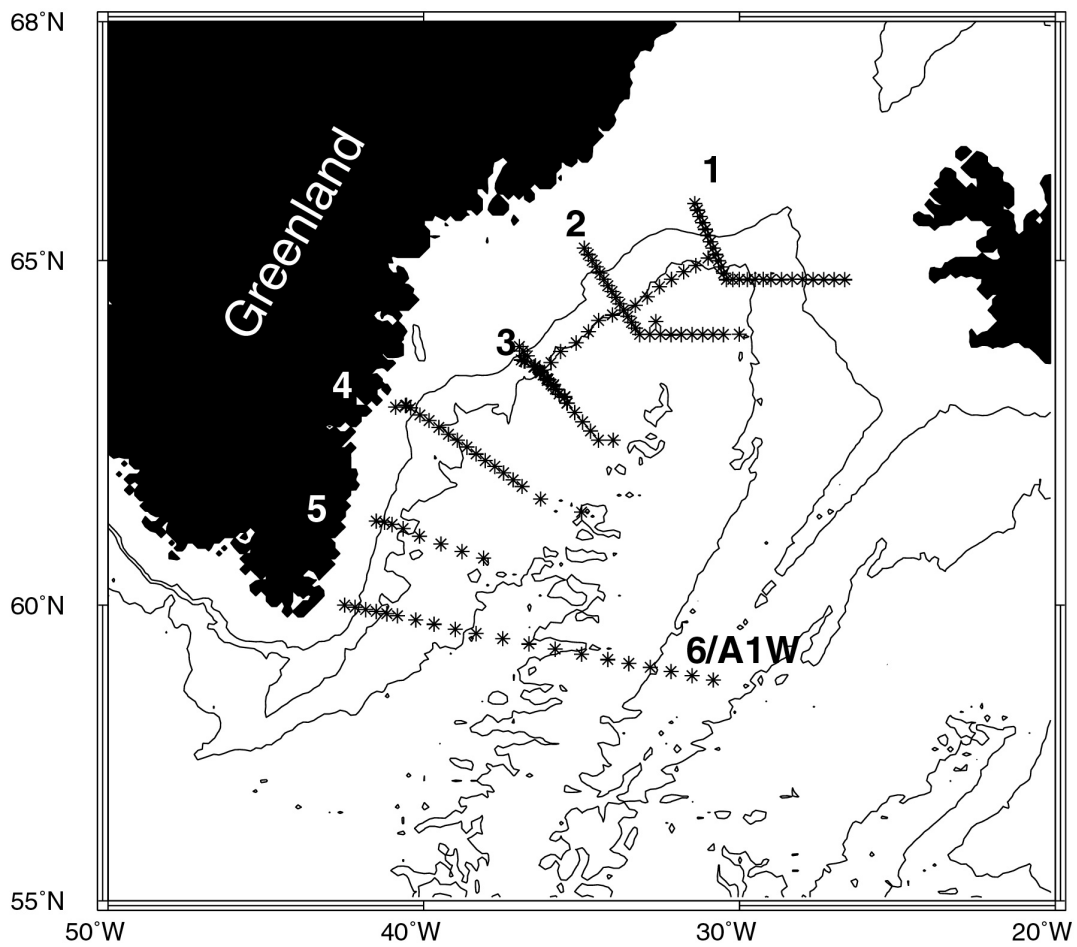


Figure D1: Positions of the stations made during M50/3 and numbers of the VEINS hydrographic sections. The mooring array is located along section 3, the tube moorings are located on the shelf at the western end of section 4. The spacing of depth isolines is 1000m.

## Participants

<i>Name</i>	<i>Speciality</i>	<i>Institute</i>
Holfort, Jürgen	Chief scientist	IfM Hamburg
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Welsch, Andreas	Moorings	IfM Hamburg

Table 1: Station list in WOCE-WHP Format

EXPO-CODE	Section Name	Stat. No.	Cast No.	Cast Type	Date mmdyyy	Time		Position			Bottom depth	Meter Wheel	Max Press.	Bottom Dist.	Comments
						UTC	Code	Latitude	Longitude	Code					
06ME50/3		161	01	ROS/CTD	062101	1220	BE	50 18.67 N	47 48.99 W	GPS	2710				
06ME50/3		161	01	ROS/CTD	062101	1318	BO	50 18.62 N	47 49.23 W	GPS	2714	2682	1500		Test Station
06ME50/3		161	01	ROS/CTD	062101	1411	EN	50 18.29 N	47 49.48 W	GPS	2715				
06ME50/3	VEINS-6	162	01	ROS/CTD	062501	1442	BE	58 47.79 N	30 49.86 W	GPS	1264				
06ME50/3	VEINS-6	162	01	ROS/CTD	062501	1507	BO	58 47.75 N	30 49.34 W	GPS	1225		1237	14	
06ME50/3	VEINS-6	162	01	ROS/CTD	062501	1545	EN	58 47.63 N	30 48.92 W	GPS	1259				
06ME50/3	VEINS-6	163	01	ROS/CTD	062501	1733	BE	58 52.02 N	31 30.00 W	GPS	1518				
06ME50/3	VEINS-6	163	01	ROS/CTD	062501	1827	BO	58 52.03 N	31 29.88 W	GPS	1513	1487	1505	14	
06ME50/3	VEINS-6	163	01	ROS/CTD	062501	1913	EN	58 52.02 N	31 29.91 W	GPS	1516				
06ME50/3	VEINS-6	164	01	ROS/CTD	062501	2145	BE	58 56.18 N	32 10.18 W	GPS	1770				
06ME50/3	VEINS-6	164	01	ROS/CTD	062501	2221	BO	58 56.04 N	32 09.56 W	GPS	1778	1751	1770	14	
06ME50/3	VEINS-6	164	01	ROS/CTD	062501	2326	EN	58 56.09 N	32 09.07 W	GPS	1627				
06ME50/3	VEINS-6	165	01	ROS/CTD	062601	0141	BE	59 00.28 N	32 49.54 W	GPS	2157				
06ME50/3	VEINS-6	165	01	ROS/CTD	062601	0223	BO	59 00.53 N	32 48.44 W	GPS	2136		2126	15	
06ME50/3	VEINS-6	165	01	ROS/CTD	062601	0312	EN	59 00.72 N	32 47.31 W	GPS	2141				
06ME50/3	VEINS-6	166	01	ROS/CTD	062601	0543	BE	59 04.04 N	33 30.06 W	GPS	2315				
06ME50/3	VEINS-6	166	01	ROS/CTD	062601	0621	BO	59 04.10 N	33 29.68 W	GPS	2329	2295	2322	14	
06ME50/3	VEINS-6	166	01	ROS/CTD	062601	0721	EN	59 04.18 N	33 29.44 W	GPS	2325				
06ME50/3	VEINS-6	167	01	ROS/CTD	062601	0926	BE	59 07.91 N	34 10.38 W	GPS	2302				
06ME50/3	VEINS-6	167	01	ROS/CTD	062601	1014	BO	59 07.82 N	34 10.38 W	GPS	2298	2268	2293	14	
06ME50/3	VEINS-6	167	01	ROS/CTD	062601	1117	EN	59 07.87 N	34 10.11 W	GPS	2281				
06ME50/3	VEINS-6	168	01	ROS/CTD	062601	1529	BE	59 13.05 N	34 59.88 W	GPS	2726				
06ME50/3	VEINS-6	168	01	ROS/CTD	062601	1621	BO	59 13.06 N	34 59.77 W	GPS	2709		2733	15	
06ME50/3	VEINS-6	168	01	ROS/CTD	062601	1724	EN	59 13.01 N	34 59.86 W	GPS	2281				
06ME50/3	VEINS-6	169	01	ROS/CTD	062601	1946	BE	59 18.01 N	35 50.08 W	GPS	3119				
06ME50/3	VEINS-6	169	01	ROS/CTD	062601	2048	BO	59 17.91 N	35 50.12 W	GPS	3120	3097	3137	14	
06ME50/3	VEINS-6	169	01	ROS/CTD	062601	2200	EN	59 17.82 N	35 50.24 W	GPS	3120				
06ME50/3	VEINS-6	170	01	ROS/CTD	062701	0025	BE	59 22.98 N	36 40.11 W	GPS	3121				
06ME50/3	VEINS-6	170	01	ROS/CTD	062701	0124	BO	59 23.04 N	36 39.86 W	GPS	3100	3101	3139	15	
06ME50/3	VEINS-6	170	01	ROS/CTD	062701	0231	EN	59 23.15 N	36 39.58 W	GPS	3120				
06ME50/3	VEINS-6	171	01	ROS/CTD	062701	0501	BE	59 27.99 N	37 29.99 W	GPS	3139				
06ME50/3	VEINS-6	171	01	ROS/CTD	062701	0608	BO	59 28.02 N	37 30.02 W	GPS	3139	3111	3154	14	
06ME50/3	VEINS-6	171	01	ROS/CTD	062701	0723	EN	59 28.11 N	37 29.93 W	GPS	3140				
06ME50/3	VEINS-6	172	01	ROS/CTD	062701	0951	BE	59 33.04 N	38 20.34 W	GPS	3060				
06ME50/3	VEINS-6	172	01	ROS/CTD	062701	1051	BO	59 33.10 N	38 20.32 W	GPS	3061	3040	3072	14	
06ME50/3	VEINS-6	172	01	ROS/CTD	062701	1204	EN	59 33.11 N	38 20.15 W	GPS	3061				
06ME50/3	VEINS-6	173	01	ROS/CTD	062701	1358	BE	59 36.98 N	38 59.98 W	GPS	2946				
06ME50/3	VEINS-6	173	01	ROS/CTD	062701	1455	BO	59 36.96 N	39 00.04 W	GPS	2944		2954	12	
06ME50/3	VEINS-6	173	01	ROS/CTD	062701	1600	EN	59 37.01 N	38 59.85 W	GPS	2947				

06ME50/3	VEINS-6	174	01	ROS/CTD	062701	1804	BE	59	42.06	N	39	40.11	W	GPS	2795			
06ME50/3	VEINS-6	174	01	ROS/CTD	062701	1900	BO	59	42.08	N	39	40.00	W	GPS	2796	2764	2800	14
06ME50/3	VEINS-6	174	01	ROS/CTD	062701	2005	EN	59	42.03	N	39	40.10	W	GPS	2798			
06ME50/3	VEINS-6	175	01	ROS/CTD	062701	2157	BE	59	45.97	N	40	15.17	W	GPS	2638			
06ME50/3	VEINS-6	175	01	ROS/CTD	062701	2246	BO	59	45.87	N	40	15.34	W	GPS	2636	2611	2636	14
06ME50/3	VEINS-6	175	01	ROS/CTD	062701	2345	EN	59	45.94	N	40	15.43	W	GPS	2638			
06ME50/3	VEINS-6	176	01	ROS/CTD	062801	0130	BE	59	49.97	N	40	50.04	W	GPS	2383			
06ME50/3	VEINS-6	176	01	ROS/CTD	062801	0215	BO	59	50.03	N	40	50.08	W	GPS	2381	2354	2376	15
06ME50/3	VEINS-6	176	01	ROS/CTD	062801	0303	EN	59	50.11	N	40	50.35	W	GPS	2375			
06ME50/3	VEINS-6	177	01	ROS/CTD	062801	0409	BE	59	51.95	N	41	09.93	W	GPS	2061			
06ME50/3	VEINS-6	177	01	ROS/CTD	062801	0449	BO	59	52.00	N	41	10.04	W	GPS	2036	2036	2049	14
06ME50/3	VEINS-6	177	01	ROS/CTD	062801	0537	EN	59	52.00	N	41	10.11	W	GPS	2059			
06ME50/3	VEINS-6	178	01	ROS/CTD	062801	0642	BE	59	53.98	N	41	30.14	W	GPS	1905			
06ME50/3	VEINS-6	178	01	ROS/CTD	062801	0723	BO	59	53.96	N	41	30.15	W	GPS	1905	1872	1892	14
06ME50/3	VEINS-6	178	01	ROS/CTD	062801	0808	EN	59	53.98	N	41	30.07	W	GPS	1906			
06ME50/3	VEINS-6	179	01	ROS/CTD	062801	0912	BE	59	55.86	N	41	50.36	W	GPS	1828			
06ME50/3	VEINS-6	179	01	ROS/CTD	062801	0949	BO	59	55.68	N	41	50.80	W	GPS	1828	1797	1812	14
06ME50/3	VEINS-6	179	01	ROS/CTD	062801	1041	EN	59	55.53	N	41	51.58	W	GPS	1827			
06ME50/3	VEINS-6	180	01	ROS/CTD	062801	1140	BE	59	58.04	N	42	10.42	W	GPS	516			
06ME50/3	VEINS-6	180	01	ROS/CTD	062801	1154	BO	59	57.98	N	42	10.72	W	GPS	485		468	14
06ME50/3	VEINS-6	180	01	ROS/CTD	062801	1211	EN	59	57.90	N	42	10.96	W	GPS	479			
06ME50/3	VEINS-6	181	01	ROS/CTD	062801	1316	BE	59	59.90	N	42	30.16	W	GPS	190			
06ME50/3	VEINS-6	181	01	ROS/CTD	062801	1323	BO	59	59.89	N	42	30.35	W	GPS	188		172	14
06ME50/3	VEINS-6	181	01	ROS/CTD	062801	1335	EN	59	59.85	N	42	30.49	W	GPS	186			
06ME50/3	VEINS-5	182	01	ROS/CTD	062901	0325	BE	60	44.00	N	38	06.20	W	GPS	2905			
06ME50/3	VEINS-5	182	01	ROS/CTD	062901	0425	BO	60	44.00	N	38	05.98	W	GPS	2903	2880	2913	14
06ME50/3	VEINS-5	182	01	ROS/CTD	062901	0527	EN	60	44.01	N	38	05.99	W	GPS	2902			
06ME50/3	VEINS-5	183	01	ROS/CTD	062901	0728	BE	60	50.01	N	38	47.28	W	GPS	2813			
06ME50/3	VEINS-5	183	01	ROS/CTD	062901	0824	BO	60	50.06	N	38	47.17	W	GPS	2813	2781	2817	14
06ME50/3	VEINS-5	183	01	ROS/CTD	062901	0927	EN	60	50.16	N	38	46.98	W	GPS	2814			
06ME50/3	VEINS-5	184	01	ROS/CTD	062901	1122	BE	60	56.92	N	39	27.07	W	GPS	2580			
06ME50/3	VEINS-5	184	01	ROS/CTD	062901	1213	BO	60	57.11	N	39	26.68	W	GPS	2584	2551	2584	14
06ME50/3	VEINS-5	184	01	ROS/CTD	062901	1312	EN	60	57.15	N	39	26.44	W	GPS	2586			
06ME50/3	VEINS-5	185	01	ROS/CTD	062901	1511	BE	61	03.98	N	40	08.06	W	GPS	2192			
06ME50/3	VEINS-5	185	01	ROS/CTD	062901	1553	BO	61	04.02	N	40	08.08	W	GPS	2188	2145	2181	14
06ME50/3	VEINS-5	185	01	ROS/CTD	062901	1643	EN	61	04.05	N	40	08.04	W	GPS	2189			
06ME50/3	VEINS-5	186	01	ROS/CTD	062901	1820	BE	61	10.99	N	40	39.29	W	GPS	1895			
06ME50/3	VEINS-5	186	01	ROS/CTD	062901	1900	BO	61	10.98	N	40	39.14	W	GPS	1896	1868	1884	14
06ME50/3	VEINS-5	186	01	ROS/CTD	062901	1939	EN	61	11.05	N	40	39.12	W	GPS	1894			
06ME50/3	VEINS-5	187	01	ROS/CTD	062901	2051	BE	61	14.94	N	41	00.03	W	GPS	1798			
06ME50/3	VEINS-5	187	01	ROS/CTD	062901	2130	BO	61	14.68	N	41	00.31	W	GPS	1803	1796	1790	14
06ME50/3	VEINS-5	187	01	ROS/CTD	062901	2214	EN	61	14.35	N	41	00.73	W	GPS	1817			
06ME50/3	VEINS-5	188	01	ROS/CTD	062901	2303	BE	61	16.87	N	41	14.58	W	GPS	1423			
06ME50/3	VEINS-5	188	01	ROS/CTD	062901	2334	BO	61	16.64	N	41	14.80	W	GPS	1451	1429	1440	14
06ME50/3	VEINS-5	188	01	ROS/CTD	063001	0006	EN	61	16.34	N	41	15.00	W	GPS	1477			

06ME50/3	VEINS-5	189	01	ROS/CTD	063001	0100	BE	61 17.97 N	41 30.30 W	GPS	236			
06ME50/3	VEINS-5	189	01	ROS/CTD	063001	0109	BO	61 17.98 N	41 30.40 W	GPS	240	219	223	14
06ME50/3	VEINS-5	189	01	ROS/CTD	063001	0121	EN	61 17.97 N	41 30.41 W	GPS	240			
06ME50/3	VEINS-4	190	01	MOR	063001	1106	BE	63 00.00 N	40 33.10 W	GPS	300			Recovery of mooring tube
06ME50/3	VEINS-4	190	01	MOR	063001	1208	EN	63 00.60 N	40 35.30 W	GPS	300			
06ME50/3	VEINS-3	191	01	ROS/CTD	070101	0104	BE	63 02.00 N	35 27.15 W	GPS	2656			
06ME50/3	VEINS-3	191	01	ROS/CTD	070101	0149	BO	63 02.01 N	35 27.18 W	GPS		2658	14	
06ME50/3	VEINS-3	191	04	ROS/CTD	070101	0527	EN	63 01.97 N	35 27.14 W	GPS				4 JOJO Profiles
06ME50/3	VEINS-3	192	01	MOR	070101	0658	BE	63 06.90 N	35 32.60 W	GPS	2590			
06ME50/3	VEINS-3	192	01	MOR	070101	0817	EN	63 07.10 N	35 32.40 W	GPS				Recovery of mooring G2
06ME50/3	VEINS-3	193	01	MOR	070101	0940	BE	63 16.70 N	35 54.00 W	GPS	2536			
06ME50/3	VEINS-3	193	01	MOR	070101	1120	EN	63 17.00 N	35 52.60 W	GPS				Recovery of mooring UK2
06ME50/3	VEINS-3	194	01	MOR	070101	1207	BE	63 21.40 N	36 05.30 W	GPS	2200			
06ME50/3	VEINS-3	194	01	MOR	070101	1322	EN	63 21.60 N	36 06.20 W	GPS				Recovery of mooring G1(FI)
06ME50/3	VEINS-3	195	01	MOR	070101	1415	BE	63 27.90 N	36 18.00 W	GPS	1998			
06ME50/3	VEINS-3	195	01	MOR	070101	1533	EN	63 28.00 N	36 19.50 W	GPS				Recovery of mooring UK1/IES
06ME50/3	VEINS-3	196	01	MOR	070101	1533	BE	63 28.00 N	36 19.50 W	GPS	1987			
06ME50/3	VEINS-3	196	01	MOR	070101	1630	EN	63 28.50 N	36 20.20 W	GPS				Recovery of mooring UK1
06ME50/3	VEINS-3	197	01	MOR	070101	1715	BE	63 32.70 N	36 31.00 W	GPS	1780			
06ME50/3	VEINS-3	197	01	MOR	070101	1816	EN	63 33.20 N	36 33.00 W	GPS				Recovery of mooring F2
06ME50/3	VEINS-3	198	01	MOR	070101	1912	BE	63 37.60 N	36 49.30 W	GPS	1598			
06ME50/3	VEINS-3	198	01	MOR	070101	2010	EN	63 38.20 N	36 49.60 W	GPS				Recovery of mooring F1(G)
06ME50/3	VEINS-4	199	01	ROS/CTD	070201	0900	BE	61 25.99 N	35 44.00 W	GPS	2911			
06ME50/3	VEINS-4	199	01	ROS/CTD	070201	0955	BO	61 26.17 N	35 44.57 W	GPS	2911	2900	2921	14
06ME50/3	VEINS-4	199	01	ROS/CTD	070201	1109	EN	61 26.37 N	35 44.56 W	GPS	2912			
06ME50/3	VEINS-4	200	01	ROS/CTD	070201	1311	BE	61 37.91 N	36 18.01 W	GPS	2800			
06ME50/3	VEINS-4	200	01	ROS/CTD	070201	1405	BO	61 38.17 N	36 18.45 W	GPS	2797	2768	2804	14
06ME50/3	VEINS-4	200	01	ROS/CTD	070201	1508	EN	61 38.43 N	36 18.27 W	GPS	2797			
06ME50/3	VEINS-4	201	01	ROS/CTD	070201	1712	BE	61 49.06 N	36 53.16 W	GPS	2684			
06ME50/3	VEINS-4	201	01	ROS/CTD	070201	1806	BO	61 49.09 N	36 53.15 W	GPS	2687	2640	2688	15
06ME50/3	VEINS-4	201	01	ROS/CTD	070201	1910	EN	61 49.04 N	36 52.95 W	GPS	2687			
06ME50/3	VEINS-4	202	01	ROS/CTD	070201	2022	BE	61 54.97 N	37 09.97 W	GPS	2625			
06ME50/3	VEINS-4	202	01	ROS/CTD	070201	2113	BO	61 55.10 N	37 10.11 W	GPS	2623	2590	2624	14
06ME50/3	VEINS-4	202	01	ROS/CTD	070201	2207	EN	61 55.23 N	37 10.69 W	GPS	2621			
06ME50/3	VEINS-4	203	01	ROS/CTD	070201	2310	BE	62 01.30 N	37 28.38 W	GPS	2561			
06ME50/3	VEINS-4	203	01	ROS/CTD	070201	2358	BO	62 01.65 N	37 29.37 W	GPS	2559	2535	2560	14
06ME50/3	VEINS-4	203	01	ROS/CTD	070301	0058	EN	62 02.07 N	37 30.50 W	GPS	2555			
06ME50/3	VEINS-4	204	01	ROS/CTD	070301	0156	BE	62 06.90 N	37 44.98 W	GPS	2526			
06ME50/3	VEINS-4	204	01	ROS/CTD	070301	0245	BO	62 06.69 N	37 45.06 W	GPS	2529	2496	2526	13
06ME50/3	VEINS-4	204	01	ROS/CTD	070301	0332	EN	62 06.84 N	37 45.28 W	GPS	2530			

06ME50/3	VEINS-4	205	01	MOR	070301	1440	BE	63	00.20	N	40	32.70	W	GPS	303				Deployment Tube04
06ME50/3	VEINS-4	206	01	MOR	070301	1638	BE	62	58.60	N	40	53.30	W	GPS	300				Deployment Tube03
06ME50/3	VEINS-4	207	01	ROS/CTD	070301	1745	BE	63	00.00	N	40	35.01	W	GPS	403				
06ME50/3	VEINS-4	207	01	ROS/CTD	070301	1800	BO	62	59.99	N	40	35.17	W	GPS	409	387	392	14	
06ME50/3	VEINS-4	207	01	ROS/CTD	070301	1811	EN	63	00.01	N	40	35.33	W	GPS	414				
06ME50/3	VEINS-4	208	01	ROS/CTD	070301	1853	BE	62	57.92	N	40	24.84	W	GPS	220				
06ME50/3	VEINS-4	208	01	ROS/CTD	070301	1903	BO	62	57.93	N	40	24.97	W	GPS	218	205	208	14	
06ME50/3	VEINS-4	208	01	ROS/CTD	070301	1912	EN	62	57.96	N	40	25.06	W	GPS	218				
06ME50/3	VEINS-4	209	01	ROS/CTD	070301	2018	BE	62	51.93	N	40	07.04	W	GPS	1698				
06ME50/3	VEINS-4	209	01	ROS/CTD	070301	2054	BO	62	52.01	N	40	07.13	W	GPS	1694	1670	1684	14	
06ME50/3	VEINS-4	209	01	ROS/CTD	070301	2134	EN	62	51.96	N	40	07.05	W	GPS	1695				
06ME50/3	VEINS-4	210	01	ROS/CTD	070301	2236	BE	62	46.95	N	39	49.17	W	GPS	1931				
06ME50/3	VEINS-4	210	01	ROS/CTD	070301	2313	BO	62	46.91	N	39	49.14	W	GPS	1932	1906	1924	14	
06ME50/3	VEINS-4	210	01	ROS/CTD	070301	2351	EN	62	46.80	N	39	49.36	W	GPS	1935				
06ME50/3	VEINS-4	211	01	ROS/CTD	070401	0100	BE	62	40.98	N	39	31.11	W	GPS	1974				
06ME50/3	VEINS-4	211	01	ROS/CTD	070401	0136	BO	62	40.95	N	39	31.10	W	GPS	1974	1932	1953	14	
06ME50/3	VEINS-4	211	01	ROS/CTD	070401	0217	EN	62	40.96	N	39	31.05	W	GPS	1976				
06ME50/3	VEINS-4	212	01	ROS/CTD	070401	0330	BE	62	35.02	N	39	13.11	W	GPS	2029				
06ME50/3	VEINS-4	212	01	ROS/CTD	070401	0405	BO	62	35.07	N	39	13.02	W	GPS	2030	1999	2019	14	
06ME50/3	VEINS-4	212	01	ROS/CTD	070401	0444	EN	62	35.08	N	39	12.95	W	GPS	2032				
06ME50/3	VEINS-4	213	01	ROS/CTD	070401	0550	BE	62	30.00	N	38	56.12	W	GPS	2166				
06ME50/3	VEINS-4	213	01	ROS/CTD	070401	0635	BO	62	30.05	N	38	56.31	W	GPS	2160	2125	2150	14	
06ME50/3	VEINS-4	213	01	ROS/CTD	070401	0725	EN	62	30.19	N	38	56.77	W	GPS	2165				
06ME50/3	VEINS-4	214	01	ROS/CTD	070401	0845	BE	62	23.98	N	38	37.97	W	GPS	2280				
06ME50/3	VEINS-4	214	01	ROS/CTD	070401	0930	BO	62	24.20	N	38	38.68	W	GPS	2269	2250	2266	14	
06ME50/3	VEINS-4	214	01	ROS/CTD	070401	1013	EN	62	24.38	N	38	38.96	W	GPS					
06ME50/3	VEINS-4	215	01	ROS/CTD	070401	1143	BE	62	17.90	N	38	20.53	W	GPS	2368				
06ME50/3	VEINS-4	215	01	ROS/CTD	070401	1228	BO	62	17.88	N	38	20.61	W	GPS	2366	2334	2365	14	
06ME50/3	VEINS-4	215	01	ROS/CTD	070401	1320	EN	62	17.84	N	38	20.58	W	GPS	2369				
06ME50/3	VEINS-4	216	01	ROS/CTD	070401	1429	BE	62	12.08	N	38	03.04	W	GPS	2491				
06ME50/3	VEINS-4	216	01	ROS/CTD	070401	1518	BO	62	12.01	N	38	02.96	W	GPS	2490	2460	2488	14	
06ME50/3	VEINS-4	216	01	ROS/CTD	070401	1608	EN	62	12.02	N	38	03.02	W	GPS	2490				
06ME50/3	VEINS-3	217	01	ROS/CTD	070501	0205	BE	63	49.97	N	36	58.15	W	GPS	357				
06ME50/3	VEINS-3	217	01	ROS/CTD	070501	0215	BO	63	50.03	N	36	58.51	W	GPS	356	334	335	14	
06ME50/3	VEINS-3	217	01	ROS/CTD	070501	0224	EN	63	50.02	N	36	58.67	W	GPS	354				
06ME50/3	VEINS-3	218	01	ROS/CTD	070501	0311	BE	63	46.01	N	36	51.15	W	GPS	629				
06ME50/3	VEINS-3	218	01	ROS/CTD	070501	0328	BO	63	46.06	N	36	51.37	W	GPS	580	568	571	14	
06ME50/3	VEINS-3	218	01	ROS/CTD	070501	0340	EN	63	46.13	N	36	51.52	W	GPS	550				
06ME50/3	VEINS-3	219	01	ROS/CTD	070501	0425	BE	63	42.03	N	36	43.13	W	GPS	1715				
06ME50/3	VEINS-3	219	01	ROS/CTD	070501	0500	BO	63	42.08	N	36	43.22	W	GPS	1711	1691	1696	14	
06ME50/3	VEINS-3	219	01	ROS/CTD	070501	0541	EN	63	42.01	N	36	43.72	W	GPS	1675				
06ME50/3	VEINS-3	220	01	ROS/CTD	070501	0654	BE	63	33.89	N	36	27.91	W	GPS	1800				
06ME50/3	VEINS-3	220	01	ROS/CTD	070501	0733	BO	63	33.83	N	36	28.09	W	GPS	1796	1766	1785	14	
06ME50/3	VEINS-3	220	01	ROS/CTD	070501	0807	EN	63	33.77	N	36	28.25	W	GPS	1792				

06ME50/3	VEINS-3	221	01	MOR	070501	0829	BE	63 32.60 N	36 29.10 W	GPS					Recovery of mooring F2/ADCP
06ME50/3	VEINS-3	221	01	MOR	070501	0928	EN	63 31.90 N	36 28.60 W	GPS					
06ME50/3	VEINS-3	222	01	ROS/CTD	070501	1010	BE	63 29.98 N	36 20.00 W	GPS	1942				
06ME50/3	VEINS-3	222	01	ROS/CTD	070501	1049	BO	63 29.95 N	36 20.13 W	GPS	1942	1909	1930	14	
06ME50/3	VEINS-3	222	01	ROS/CTD	070501	1135	EN	63 29.96 N	36 19.79 W	GPS	1949				
06ME50/3	VEINS-3	223	01	MOR	070501	1157	BE	63 28.70 N	36 18.80 W	GPS					Deployment fo mooring UK1/IES-2001
06ME50/3	VEINS-3	223	01	MOR	070501	1245	EN	63 28.69 N	36 18.81 W	GPS					
06ME50/3	VEINS-3	224	01	ROS/CTD	070501	1246	BE	63 28.69 N	36 18.76 W	GPS	1988		80		CO2
06ME50/3	VEINS-3	224	01	ROS/CTD	070501	1305	EN	63 28.74 N	36 18.97 W	GPS	1987				
06ME50/3	VEINS-3	225	01	MOR	070501	1414	BE	63 22.40 N	36 03.80 W	GPS					Deployment fo mooring G1-2001
06ME50/3	VEINS-3	225	01	MOR	070501	1502	EN	63 21.80 N	36 04.30 W	GPS					
06ME50/3	VEINS-3	226	01	MOR	070501	1547	BE	63 17.60 N	35 52.90 W	GPS					Deployment fo mooring UK2-2001
06ME50/3	VEINS-3	226	01	MOR	070501	1619	EN	63 17.00 N	35 53.10 W	GPS					
06ME50/3	VEINS-3	227	01	MOR	070501	1742	BE	63 07.50 N	35 31.50 W	GPS					Deployment fo mooring G2-2001
06ME50/3	VEINS-3	227	01	MOR	070501	1805	EN	63 07.00 N	35 31.90 W	GPS					
06ME50/3	VEINS-3	228	01	ROS/CTD	070501	2034	BE	63 25.99 N	36 13.11 W	GPS	2097				
06ME50/3	VEINS-3	228	01	ROS/CTD	070501	2115	BO	63 25.96 N	36 13.10 W	GPS	2100	2075	2097	14	
06ME50/3	VEINS-3	228	01	ROS/CTD	070501	2202	EN	63 25.93 N	36 13.53 W	GPS	2096				
06ME50/3	VEINS-3	229	01	ROS/CTD	070501	2248	BE	63 22.02 N	36 06.00 W	GPS	2201				
06ME50/3	VEINS-3	229	01	ROS/CTD	070501	2331	BO	63 21.89 N	36 06.55 W	GPS	2198	2172	2194	14	
06ME50/3	VEINS-3	229	01	ROS/CTD	070601	0015	EN	63 21.94 N	36 07.00 W	GPS	2198				
06ME50/3	VEINS-3	230	01	ROS/CTD	070601	0108	BE	63 18.09 N	35 58.13 W	GPS	2306				
06ME50/3	VEINS-3	230	01	ROS/CTD	070601	0154	BO	63 17.98 N	35 58.35 W	GPS	2306		2298	14	
06ME50/3	VEINS-3	230	01	ROS/CTD	070601	0235	EN	63 17.89 N	35 58.21 W	GPS	2310				
06ME50/3	VEINS-3	231	01	ROS/CTD	070601	0329	BE	63 14.03 N	35 49.65 W	GPS	2415				
06ME50/3	VEINS-3	231	01	ROS/CTD	070601	0414	BO	63 14.01 N	35 49.95 W	GPS	2419	2384	2413	14	
06ME50/3	VEINS-3	231	01	ROS/CTD	070601	0515	EN	63 14.00 N	35 50.09 W	GPS	2417				
06ME50/3	VEINS-3	232	01	ROS/CTD	070601	0602	BE	63 09.97 N	35 42.89 W	GPS	2511				
06ME50/3	VEINS-3	232	01	ROS/CTD	070601	0653	BO	63 10.00 N	35 42.95 W	GPS	2511	2478	2510	14	
06ME50/3	VEINS-3	232	01	ROS/CTD	070601	0742	EN	63 10.02 N	35 42.95 W	GPS	2510				
06ME50/3	VEINS-3	233	01	ROS/CTD	070601	0850	BE	63 02.01 N	35 27.98 W	GPS	2655				
06ME50/3	VEINS-3	233	01	ROS/CTD	070601	0940	BO	63 02.04 N	35 27.84 W	GPS	2654	2636	2660	14	
06ME50/3	VEINS-3	233	01	ROS/CTD	070601	1036	EN	63 01.93 N	35 27.99 W	GPS	2654				
06ME50/3	VEINS-3	234	01	ROS/CTD	070601	1233	BE	62 54.09 N	35 13.00 W	GPS	2717				
06ME50/3	VEINS-3	234	01	ROS/CTD	070601	1312	BO	62 54.27 N	35 12.27 W	GPS	2718	2700	2720	13	
06ME50/3	VEINS-3	234	01	ROS/CTD	070601	1400	EN	62 54.10 N	35 11.57 W	GPS	2719				
06ME50/3	VEINS-3	235	01	ROS/CTD	070601	1506	BE	62 45.98 N	34 58.07 W	GPS	2764				
06ME50/3	VEINS-3	235	01	ROS/CTD	070601	1559	BO	62 46.16 N	34 57.58 W	GPS	2773	2745	2775	14	
06ME50/3	VEINS-3	235	01	ROS/CTD	070601	1700	EN	62 46.30 N	34 57.68 W	GPS	2773				
06ME50/3	VEINS-3	236	01	ROS/CTD	070601	1808	BE	62 37.93 N	34 42.95 W	GPS	2806				
06ME50/3	VEINS-3	236	01	ROS/CTD	070601	1906	BO	62 38.16 N	34 42.67 W	GPS	2806	2792	2813	14	
06ME50/3	VEINS-3	236	01	ROS/CTD	070601	2002	EN	62 38.33 N	34 42.53 W	GPS	2806				



06ME50/3	VEINS-3	237	01	ROS/CTD	070601	2111	BE	62	29.91	N	34	28.00	W	GPS	2842			
06ME50/3	VEINS-3	237	01	ROS/CTD	070601	2206	BO	62	29.97	N	34	28.10	W	GPS	2842	2812	2850	14
06ME50/3	VEINS-3	237	01	ROS/CTD	070601	2311	EN	62	29.97	N	34	28.21	W	GPS	2841			
06ME50/3	VEINS-3	238	01	ROS/CTD	070701	0033	BE	62	30.03	N	33	59.95	W	GPS	2899			
06ME50/3	VEINS-3	238	01	ROS/CTD	070701	0125	BO	62	30.07	N	34	00.15	W	GPS	2920	2848	2907	16
06ME50/3	VEINS-3	238	01	ROS/CTD	070701	0224	EN	62	30.33	N	34	00.76	W	GPS	2895			
06ME50/3		239	01	ROS/CTD	070701	1030	BE	63	27.83	N	36	17.85	W	GPS	2013		100	CO2
06ME50/3		239	01	ROS/CTD	070701	1048	EN	63	27.83	N	36	18.63	W	GPS	2007			
06ME50/3	VEINS-3	239	02	MOR	070701	1101	BE	63	28.40	N	36	17.90	W	GPS				Deployment fo mooring UK1-2001
06ME50/3	VEINS-3	239	02	MOR	070701	1135	EN	63	28.90	N	36	17.90	W	GPS				
06ME50/3	VEINS-3	240	01	MOR	070701	1221	BE	63	32.80	N	36	30.10	W	GPS				Deployment fo mooring F2-2001
06ME50/3	VEINS-3	240	01	MOR	070701	1413	EN	63	33.30	N	36	30.30	W	GPS				
06ME50/3	VEINS-3	241	01	MOR	070701	1445	BE	63	37.60	N	36	47.40	W	GPS				Deployment fo mooring F1-2001
06ME50/3	VEINS-3	241	01	MOR	070701	1515	EN	63	38.30	N	36	47.70	W	GPS				
06ME50/3	VEINS-3	242	01	MOR	070701	1551	BE	63	38.70	N	36	54.70	W	GPS				Deployment fo mooring O1-2001
06ME50/3	VEINS-3	242	01	MOR	070701	1611	EN	63	39.00	N	36	54.40	W	GPS				
06ME50/3		243	01	ROS/CTD	070701	1843	BE	63	36.53	N	35	58.27	W	GPS	2040			
06ME50/3		243	01	ROS/CTD	070701	1925	BO	63	36.31	N	35	58.44	W	GPS	2039	2005	2024	14
06ME50/3		243	01	ROS/CTD	070701	2006	EN	63	36.34	N	35	58.74	W	GPS	2031			
06ME50/3		244	01	ROS/CTD	070701	2132	BE	63	45.69	N	35	39.85	W	GPS				
06ME50/3		244	01	ROS/CTD	070701	2219	BO	63	45.77	N	35	40.32	W	GPS	2144	2125	2146	14
06ME50/3		244	01	ROS/CTD	070701	2300	EN	63	45.67	N	35	40.41	W	GPS	2147			
06ME50/3		245	01	ROS/CTD	070801	0020	BE	63	52.98	N	35	10.22	W	GPS	2021			
06ME50/3		245	01	ROS/CTD	070801	0111	BO	63	53.00	N	35	10.32	W	GPS	2032	2006	2028	14
06ME50/3		245	01	ROS/CTD	070801	0147	EN	63	53.02	N	35	10.37	W	GPS	2022			
06ME50/3		246	01	ROS/CTD	070801	0314	BE	64	02.20	N	34	47.05	W	GPS	1973			
06ME50/3		246	01	ROS/CTD	070801	0354	BO	64	02.13	N	34	47.11	W	GPS	1973	1983	1977	14
06ME50/3		246	01	ROS/CTD	070801	0430	EN	64	02.08	N	34	47.05	W	GPS	1976			
06ME50/3		247	01	ROS/CTD	070801	0551	BE	64	11.40	N	34	27.43	W	GPS	1971			
06ME50/3		247	01	ROS/CTD	070801	0633	BO	64	11.28	N	34	27.86	W	GPS	1982	1985	1982	14
06ME50/3		247	01	ROS/CTD	070801	0715	EN	64	11.21	N	34	28.40	W	GPS	1984			
06ME50/3		248	01	ROS/CTD	070801	0837	BE	64	16.06	N	34	01.45	W	GPS	1974			
06ME50/3		248	01	ROS/CTD	070801	0918	BO	64	16.24	N	34	01.93	W	GPS	1972		1975	14
06ME50/3		248	01	ROS/CTD	070801	0959	EN	64	16.56	N	34	02.34	W	GPS	1963			
06ME50/3		249	01	ROS/CTD	070801	1327	BE	64	10.65	N	32	38.67	W	GPS	2478		100	CO2
06ME50/3		249	01	ROS/CTD	070801	1344	EN	64	10.69	N	32	38.80	W	GPS	2478			
06ME50/3	VEINS-2	250	01	ROS/CTD	070801	2023	BE	64	00.07	N	30	00.18	W	GPS	2076			
06ME50/3	VEINS-2	250	01	ROS/CTD	070801	2105	BO	64	00.40	N	30	00.39	W	GPS	2038	2093	2066	14
06ME50/3	VEINS-2	250	01	ROS/CTD	070801	2150	EN	64	00.71	N	30	00.82	W	GPS	2040			
06ME50/3	VEINS-2	251	01	ROS/CTD	070801	2306	BE	63	59.97	N	30	30.36	W	GPS	2500			
06ME50/3	VEINS-2	251	01	ROS/CTD	070801	2353	BO	64	00.12	N	30	30.40	W	GPS	2502	2469	2492	14
06ME50/3	VEINS-2	251	01	ROS/CTD	070901	0041	EN	64	00.17	N	30	30.42	W	GPS	2499			
06ME50/3	VEINS-2	252	01	ROS/CTD	070901	0138	BE	63	59.96	N	30	50.11	W	GPS	2686			

06ME50/3	VEINS-2	252	01	ROS/CTD	070901	0230	BO	64	00.03	N	30	49.94	W	GPS	2684	2656	2685	14
06ME50/3	VEINS-2	252	01	ROS/CTD	070901	0324	EN	64	00.08	N	30	50.21	W	GPS	2686			
06ME50/3	VEINS-2	253	01	ROS/CTD	070901	0421	BE	63	59.94	N	31	10.03	W	GPS	2717			
06ME50/3	VEINS-2	253	01	ROS/CTD	070901	0513	BO	63	59.99	N	31	10.00	W	GPS	2714	2684	2720	14
06ME50/3	VEINS-2	253	01	ROS/CTD	070901	0606	EN	64	00.00	N	31	10.05	W	GPS	2722			
06ME50/3	VEINS-2	254	01	ROS/CTD	070901	0702	BE	63	59.95	N	31	30.23	W	GPS	2744			
06ME50/3	VEINS-2	254	01	ROS/CTD	070901	0756	BO	64	00.03	N	31	30.37	W	GPS	2744	2708	2746	14
06ME50/3	VEINS-2	254	01	ROS/CTD	070901	0858	EN	63	59.89	N	31	30.58	W	GPS	2744			
06ME50/3	VEINS-2	255	01	ROS/CTD	070901	0953	BE	63	59.94	N	31	50.50	W	GPS	2732			
06ME50/3	VEINS-2	255	01	ROS/CTD	070901	1024	BO	64	00.09	N	31	51.09	W	GPS	2730	2693	2729	14
06ME50/3	VEINS-2	255	01	ROS/CTD	070901	1136	EN	64	00.28	N	31	51.48	W	GPS	2727			
06ME50/3	VEINS-2	256	01	ROS/CTD	070901	1240	BE	63	59.77	N	32	10.11	W	GPS	2713			
06ME50/3	VEINS-2	256	01	ROS/CTD	070901	1331	BO	63	59.95	N	32	10.22	W	GPS	2689	2672	2700	14
06ME50/3	VEINS-2	256	01	ROS/CTD	070901	1426	EN	64	00.20	N	32	10.53	W	GPS	2687			
06ME50/3	VEINS-2	257	01	ROS/CTD	070901	1543	BE	63	59.90	N	32	30.07	W	GPS	2644			
06ME50/3	VEINS-2	257	01	ROS/CTD	070901	1635	BO	64	00.00	N	32	30.60	W	GPS	2642	2620	2650	14
06ME50/3	VEINS-2	257	01	ROS/CTD	070901	1726	EN	64	00.16	N	32	30.90	W	GPS	2639			
06ME50/3	VEINS-2	258	01	ROS/CTD	070901	1829	BE	63	59.96	N	32	50.22	W	GPS	2542			
06ME50/3	VEINS-2	258	01	ROS/CTD	070901	1921	BO	64	00.09	N	32	50.96	W	GPS	2530	2518	2542	14
06ME50/3	VEINS-2	258	01	ROS/CTD	070901	2015	EN	64	00.13	N	32	51.70	W	GPS	2531			
06ME50/3	VEINS-2	259	01	ROS/CTD	070901	2117	BE	63	59.96	N	33	09.86	W	GPS	2443			
06ME50/3	VEINS-2	259	01	ROS/CTD	070901	2205	BO	64	00.14	N	33	10.54	W	GPS	2437	2419	2444	14
06ME50/3	VEINS-2	259	01	ROS/CTD	070901	2251	EN	64	00.34	N	33	11.36	W	GPS	2434			
06ME50/3	VEINS-2	260	01	ROS/CTD	070901	2345	BE	64	05.04	N	33	17.51	W	GPS	2348			
06ME50/3	VEINS-2	260	01	ROS/CTD	071001	0031	BO	64	05.30	N	33	18.65	W	GPS	2337	2329	2341	14
06ME50/3	VEINS-2	260	01	ROS/CTD	071001	0123	EN	64	05.66	N	33	19.50	W	GPS	2325			
06ME50/3	VEINS-2	261	01	ROS/CTD	071001	0208	BE	64	09.96	N	33	25.05	W	GPS	2228			
06ME50/3	VEINS-2	261	01	ROS/CTD	071001	0253	BO	64	10.21	N	33	25.56	W	GPS	2220	2214	2225	13
06ME50/3	VEINS-2	261	01	ROS/CTD	071001	0331	EN	64	10.30	N	33	26.02	W	GPS	2220			
06ME50/3	VEINS-2	262	01	ROS/CTD	071001	0416	BE	64	14.95	N	33	32.42	W	GPS	2085			
06ME50/3	VEINS-2	262	01	ROS/CTD	071001	0455	BO	64	15.06	N	33	32.71	W	GPS	2082	2067	2085	14
06ME50/3	VEINS-2	262	01	ROS/CTD	071001	0541	EN	64	15.07	N	33	32.96	W	GPS	2083			
06ME50/3	VEINS-2	263	01	ROS/CTD	071001	0629	BE	64	20.00	N	33	40.16	W	GPS	1928			
06ME50/3	VEINS-2	263	01	ROS/CTD	071001	0710	BO	64	20.01	N	33	40.37	W	GPS	1929	1899	1923	14
06ME50/3	VEINS-2	263	01	ROS/CTD	071001	0753	EN	64	20.07	N	33	40.57	W	GPS	1927			
06ME50/3	VEINS-2	264	01	ROS/CTD	071001	0848	BE	64	25.04	N	33	47.42	W	GPS	1772			
06ME50/3	VEINS-2	264	01	ROS/CTD	071001	0923	BO	64	25.20	N	33	47.44	W	GPS	1770	1749	1764	14
06ME50/3	VEINS-2	264	01	ROS/CTD	071001	0959	EN	64	25.23	N	33	47.28	W	GPS	1769			
06ME50/3	VEINS-2	265	01	ROS/CTD	071001	1111	BE	64	30.30	N	33	54.95	W	GPS	1599			
06ME50/3	VEINS-2	265	01	ROS/CTD	071001	1143	BO	64	30.37	N	33	54.74	W	GPS	1598	1615	1593	14
06ME50/3	VEINS-2	265	01	ROS/CTD	071001	1219	EN	64	30.48	N	33	54.08	W	GPS	1597			
06ME50/3	VEINS-2	266	01	ROS/CTD	071001	1308	BE	64	35.03	N	34	02.45	W	GPS	1424			
06ME50/3	VEINS-2	266	01	ROS/CTD	071001	1338	BO	64	35.01	N	34	02.55	W	GPS	1424	1401	1414	14
06ME50/3	VEINS-2	266	01	ROS/CTD	071001	1409	EN	64	35.01	N	34	02.54	W	GPS	1423			

06ME50/3	VEINS-2	267	01	ROS/CTD	071001	1500	BE	64	39.91	N	34	10.22	W	GPS	1244			
06ME50/3	VEINS-2	267	01	ROS/CTD	071001	1526	BO	64	39.82	N	34	11.09	W	GPS	1247	1231	1235	15
06ME50/3	VEINS-2	267	01	ROS/CTD	071001	1550	EN	64	39.80	N	34	12.67	W	GPS	1246			
06ME50/3	VEINS-2	268	01	ROS/CTD	071001	1643	BE	64	45.02	N	34	17.61	W	GPS	1116			
06ME50/3	VEINS-2	268	01	ROS/CTD	071001	1711	BO	64	44.93	N	34	18.25	W	GPS	1120	1098	1108	14
06ME50/3	VEINS-2	268	01	ROS/CTD	071001	1737	EN	64	44.82	N	34	18.94	W	GPS	1124			
06ME50/3	VEINS-2	269	01	ROS/CTD	071001	1833	BE	64	50.02	N	34	25.06	W	GPS	1047			
06ME50/3	VEINS-2	269	01	ROS/CTD	071001	1859	BO	64	50.07	N	34	25.07	W	GPS	1048	1031	1041	11
06ME50/3	VEINS-2	269	01	ROS/CTD	071001	1922	EN	64	50.03	N	34	25.03	W	GPS	1051			
06ME50/3	VEINS-2	270	01	ROS/CTD	071001	2016	BE	64	55.10	N	34	32.46	W	GPS	869			
06ME50/3	VEINS-2	270	01	ROS/CTD	071001	2040	BO	64	55.15	N	34	32.72	W	GPS	864	846	855	14
06ME50/3	VEINS-2	270	01	ROS/CTD	071001	2102	EN	64	55.13	N	34	33.00	W	GPS	863			
06ME50/3	VEINS-2	271	01	ROS/CTD	071001	2208	BE	65	00.03	N	34	40.02	W	GPS	373			
06ME50/3	VEINS-2	271	01	ROS/CTD	071001	2221	BO	65	00.00	N	34	40.29	W	GPS	376	372	374	14
06ME50/3	VEINS-2	271	01	ROS/CTD	071001	2230	EN	64	59.96	N	34	40.49	W	GPS	387			
06ME50/3	VEINS-2	272	01	ROS/CTD	071001	2316	BE	65	05.08	N	34	47.48	W	GPS	364			
06ME50/3	VEINS-2	272	01	ROS/CTD	071001	2331	BO	65	05.01	N	34	47.54	W	GPS	365	357	360	14
06ME50/3	VEINS-2	272	01	ROS/CTD	071001	2342	EN	65	05.00	N	34	47.53	W	GPS	364			
06ME50/3	VEINS-2	273	01	ROS/CTD	071101	0035	BE	65	09.96	N	34	54.91	W	GPS	282			
06ME50/3	VEINS-2	273	01	ROS/CTD	071101	0044	BO	65	10.02	N	34	54.92	W	GPS	282	272	274	14
06ME50/3	VEINS-2	273	01	ROS/CTD	071101	0053	EN	65	10.00	N	34	54.81	W	GPS	280			
06ME50/3		274	01	ROS/CTD	071101	0616	BE	64	23.96	N	33	17.97	W	GPS	1992			
06ME50/3		274	01	ROS/CTD	071101	0700	BO	64	24.10	N	33	18.29	W	GPS	1990	1969	1989	11
06ME50/3		274	01	ROS/CTD	071101	0740	EN	64	24.20	N	33	18.59	W	GPS	1985			
06ME50/3		275	01	ROS/CTD	071101	0858	BE	64	30.95	N	32	54.96	W	GPS	2086			
06ME50/3		275	01	ROS/CTD	071101	0938	BO	64	31.21	N	32	55.13	W	GPS	2081	2058	2087	5
06ME50/3		275	01	ROS/CTD	071101	1020	EN	64	31.32	N	32	55.64	W	GPS	2077			
06ME50/3		276	01	ROS/CTD	071101	1137	BE	64	38.96	N	32	31.98	W	GPS	2177			
06ME50/3		276	01	ROS/CTD	071101	1219	BO	64	39.15	N	32	32.05	W	GPS	2131	2154	2178	14
06ME50/3		276	01	ROS/CTD	071101	1257	EN	64	39.19	N	32	32.33	W	GPS	2171			
06ME50/3		277	01	ROS/CTD	071101	1409	BE	64	45.06	N	32	09.12	W	GPS	2243			
06ME50/3		277	01	ROS/CTD	071101	1454	BO	64	44.94	N	32	09.05	W	GPS	2246	2224	2248	12
06ME50/3		277	01	ROS/CTD	071101	1533	EN	64	44.86	N	32	08.87	W	GPS	2247			
06ME50/3		278	01	ROS/CTD	071101	1648	BE	64	51.04	N	31	46.01	W	GPS	2174			
06ME50/3		278	01	ROS/CTD	071101	1734	BO	64	50.88	N	31	46.28	W	GPS	2176	2155	2179	11
06ME50/3		278	01	ROS/CTD	071101	1818	EN	64	50.79	N	31	46.15	W	GPS	2178			
06ME50/3		279	01	ROS/CTD	071101	1929	BE	64	56.03	N	31	23.02	W	GPS	2065			
06ME50/3		279	01	ROS/CTD	071101	2013	BO	64	55.93	N	31	23.36	W	GPS	2071	2047	2073	11
06ME50/3		279	01	ROS/CTD	071101	2052	EN	64	55.89	N	31	23.57	W	GPS	2073			
06ME50/3		280	01	ROS/CTD	071101	2203	BE	65	02.09	N	30	59.72	W	GPS	1821			
06ME50/3		280	01	ROS/CTD	071101	2237	BO	65	02.08	N	30	59.93	W	GPS	1820	1804	1820	14
06ME50/3		280	01	ROS/CTD	071101	2317	EN	65	02.09	N	31	00.22	W	GPS	1818			
06ME50/3	VEINS-1	281	01	ROS/CTD	071201	0358	BE	65	45.05	N	31	25.07	W	GPS	367			
06ME50/3	VEINS-1	281	01	ROS/CTD	071201	0413	BO	65	45.16	N	31	25.22	W	GPS	360	343	344	23
06ME50/3	VEINS-1	281	01	ROS/CTD	071201	0422	BN	65	45.20	N	31	25.30	W	GPS	362			

06ME50/3	VEINS-1	282	01	ROS/CTD	071201	0517	BE	65	39.90	N	31	19.99	W	GPS	351				
06ME50/3	VEINS-1	282	01	ROS/CTD	071201	0533	BO	65	39.87	N	31	20.27	W	GPS	352	339	342	11	
06ME50/3	VEINS-1	282	01	ROS/CTD	071201	0543	EN	65	39.94	N	31	20.39	W	GPS	350				
06ME50/3	VEINS-1	283	01	ROS/CTD	071201	0631	BE	65	34.99	N	31	15.03	W	GPS	362				
06ME50/3	VEINS-1	283	01	ROS/CTD	071201	0646	BO	65	35.03	N	31	15.21	W	GPS	359	350	355	11	
06ME50/3	VEINS-1	283	01	ROS/CTD	071201	0658	EN	65	35.02	N	31	15.41	W	GPS	360				
06ME50/3	VEINS-1	284	01	ROS/CTD	071201	0745	BE	65	30.00	N	31	09.93	W	GPS	377				
06ME50/3	VEINS-1	284	01	ROS/CTD	071201	0800	BO	65	30.11	N	31	10.11	W	GPS	376	354	359	11	
06ME50/3	VEINS-1	284	01	ROS/CTD	071201	0809	EN	65	30.17	N	31	10.42	W	GPS	378				
06ME50/3	VEINS-1	285	01	ROS/CTD	071201	0856	BE	65	25.00	N	31	04.78	W	GPS	670				
06ME50/3	VEINS-1	285	01	ROS/CTD	071201	0914	BO	65	25.33	N	31	04.55	W	GPS	644	657	640	14	
06ME50/3	VEINS-1	285	01	ROS/CTD	071201	0930	EN	65	25.56	N	31	04.51	W	GPS	628				
06ME50/3	VEINS-1	286	01	ROS/CTD	071201	1027	BE	65	19.98	N	30	59.95	W	GPS	973				
06ME50/3	VEINS-1	286	01	ROS/CTD	071201	1047	BO	65	20.06	N	30	59.82	W	GPS	968	960	965	14	
06ME50/3	VEINS-1	286	01	ROS/CTD	071201	1111	EN	65	20.20	N	30	59.81	W	GPS	961				
06ME50/3	VEINS-1	287	01	ROS/CTD	071201	1203	BE	65	15.05	N	30	55.11	W	GPS	1240				
06ME50/3	VEINS-1	287	01	ROS/CTD	071201	1229	BO	65	15.05	N	30	55.13	W	GPS	1240	1228	1234	14	
06ME50/3	VEINS-1	287	01	ROS/CTD	071201	1258	EN	65	15.00	N	30	55.16	W	GPS	1243				
06ME50/3	VEINS-1	288	01	ROS/CTD	071201	1346	BE	65	10.00	N	30	50.02	W	GPS	1512				
06ME50/3	VEINS-1	288	01	ROS/CTD	071201	1417	BO	65	09.94	N	30	49.78	W	GPS	1515	1506	1508	13	
06ME50/3	VEINS-1	288	01	ROS/CTD	071201	1449	EN	65	09.87	N	30	49.48	W	GPS	1516				
06ME50/3	VEINS-1	289	01	ROS/CTD	071201	1535	BE	65	05.08	N	30	44.98	W	GPS	1759				
06ME50/3	VEINS-1	289	01	ROS/CTD	071201	1612	BO	65	05.03	N	30	45.34	W	GPS	1757	1739	1753	13	
06ME50/3	VEINS-1	289	01	ROS/CTD	071201	1651	EN	65	04.81	N	30	45.44	W	GPS	1763				
06ME50/3	VEINS-1	290	01	ROS/CTD	071201	1736	BE	64	59.88	N	30	39.97	W	GPS	1894				
06ME50/3	VEINS-1	290	01	ROS/CTD	071201	1817	BO	64	59.76	N	30	40.79	W	GPS	1901	1882	1898	11	
06ME50/3	VEINS-1	290	01	ROS/CTD	071201	1855	EN	64	59.74	N	30	41.19	W	GPS	1899				
06ME50/3	VEINS-1	291	01	ROS/CTD	071201	1940	BE	64	54.88	N	30	34.82	W	GPS	2035				
06ME50/3	VEINS-1	291	01	ROS/CTD	071201	2024	BO	64	54.69	N	30	35.03	W	GPS	2020	2041	2041	11	
06ME50/3	VEINS-1	291	01	ROS/CTD	071201	2112	EN	64	54.46	N	30	35.02	W	GPS	2046				
06ME50/3	VEINS-1	292	01	ROS/CTD	071201	2156	BE	64	49.86	N	30	29.93	W	GPS	2143				
06ME50/3	VEINS-1	292	01	ROS/CTD	071201	2236	BO	64	49.87	N	30	30.05	W	GPS	2144	2127	2147	14	
06ME50/3	VEINS-1	292	01	ROS/CTD	071201	2320	EN	64	49.79	N	30	30.29	W	GPS	2144				
06ME50/3	VEINS-1	293	01	ROS/CTD	071301	0010	BE	64	44.94	N	30	24.93	W	GPS	2230				
06ME50/3	VEINS-1	293	01	ROS/CTD	071301	0055	BO	64	44.94	N	30	24.79	W	GPS	2228	2236	2236	14	
06ME50/3	VEINS-1	293	01	ROS/CTD	071301	0133	EN	64	45.00	N	30	24.66	W	GPS	2227				
06ME50/3	VEINS-1	294	01	ROS/CTD	071301	0221	BE	64	45.08	N	30	12.66	W	GPS	2208				
06ME50/3	VEINS-1	294	01	ROS/CTD	071301	0303	BO	64	44.95	N	30	12.53	W	GPS	2208	2186	2214	13	
06ME50/3	VEINS-1	294	01	ROS/CTD	071301	0350	EN	64	44.99	N	30	12.64	W	GPS	2207				
06ME50/3	VEINS-1	295	01	ROS/CTD	071301	0438	BE	64	44.98	N	30	00.15	W	GPS	2184				
06ME50/3	VEINS-1	295	01	ROS/CTD	071301	0523	BO	64	44.98	N	30	00.07	W	GPS	2183	2162	2189	11	
06ME50/3	VEINS-1	295	01	ROS/CTD	071301	0610	EN	64	45.00	N	30	00.09	W	GPS	2180				
06ME50/3	VEINS-1	296	01	ROS/CTD	071301	0704	BE	64	44.94	N	29	44.94	W	GPS	2100				
06ME50/3	VEINS-1	296	01	ROS/CTD	071301	0749	BO	64	45.01	N	29	45.09	W	GPS	2114	2107	2133	18	

06ME50/3	VEINS-1	296	01	ROS/CTD	071301	0834	EN	64	45.09	N	29	45.10	W	GPS	2114			
06ME50/3	VEINS-1	297	01	ROS/CTD	071301	0934	BE	64	44.98	N	29	30.13	W	GPS	1843			
06ME50/3	VEINS-1	297	01	ROS/CTD	071301	1011	BO	64	45.00	N	29	30.36	W	GPS	1843	1830	1851	14
06ME50/3	VEINS-1	297	01	ROS/CTD	071301	1045	EN	64	45.08	N	29	30.52	W	GPS	1847			
06ME50/3	VEINS-1	298	01	ROS/CTD	071301	1152	BE	64	44.96	N	29	14.89	W	GPS	1405			
06ME50/3	VEINS-1	298	01	ROS/CTD	071301	1220	BO	64	45.00	N	29	15.03	W	GPS	1384	1416	1429	14
06ME50/3	VEINS-1	298	01	ROS/CTD	071301	1253	EN	64	45.03	N	29	15.02	W	GPS	1383			
06ME50/3	VEINS-1	299	01	ROS/CTD	071301	1348	BE	64	44.93	N	29	00.13	W	GPS	1064			
06ME50/3	VEINS-1	299	01	ROS/CTD	071301	1413	BO	64	44.76	N	29	00.10	W	GPS	1066	1079	1088	12
06ME50/3	VEINS-1	299	01	ROS/CTD	071301	1438	EN	64	44.65	N	29	00.19	W	GPS	1062			
06ME50/3	VEINS-1	300	01	ROS/CTD	071301	1548	BE	64	44.93	N	28	40.09	W	GPS	1266			
06ME50/3	VEINS-1	300	01	ROS/CTD	071301	1617	BO	64	44.84	N	28	40.18	W	GPS	1266	1249	1269	13
06ME50/3	VEINS-1	300	01	ROS/CTD	071301	1644	EN	64	44.81	N	28	40.08	W	GPS	1270			
06ME50/3	VEINS-1	301	01	ROS/CTD	071301	1753	BE	64	44.99	N	28	19.97	W	GPS	1133			
06ME50/3	VEINS-1	301	01	ROS/CTD	071301	1829	BO	64	45.02	N	28	20.08	W	GPS	1136	1115	1127	11
06ME50/3	VEINS-1	301	01	ROS/CTD	071301	1843	EN	64	45.01	N	28	19.96	W	GPS	1130			
06ME50/3	VEINS-1	302	01	ROS/CTD	071301	1953	BE	64	45.02	N	27	59.97	W	GPS	1022			
06ME50/3	VEINS-1	302	01	ROS/CTD	071301	2017	BO	64	45.02	N	28	00.00	W	GPS	1023	1010	1017	11
06ME50/3	VEINS-1	302	01	ROS/CTD	071301	2040	EN	64	45.03	N	27	59.93	W	GPS	1021			
06ME50/3	VEINS-1	303	01	ROS/CTD	071301	2147	BE	64	44.95	N	27	39.87	W	GPS	800			
06ME50/3	VEINS-1	303	01	ROS/CTD	071301	2206	BO	64	44.95	N	27	39.96	W	GPS	804	768	795	14
06ME50/3	VEINS-1	303	01	ROS/CTD	071301	2220	EN	64	44.98	N	27	39.88	W	GPS	799			
06ME50/3	VEINS-1	304	01	ROS/CTD	071301	2330	BE	64	44.86	N	27	19.84	W	GPS	545			
06ME50/3	VEINS-1	304	01	ROS/CTD	071301	2346	BO	64	44.76	N	27	19.95	W	GPS	546	539	540	14
06ME50/3	VEINS-1	304	01	ROS/CTD	071301	2356	EN	64	44.73	N	27	19.96	W	GPS	547			
06ME50/3	VEINS-1	305	01	ROS/CTD	071401	0109	BE	64	44.93	N	27	00.24	W	GPS	283			
06ME50/3	VEINS-1	305	01	ROS/CTD	071401	0120	BO	64	44.87	N	27	00.13	W	GPS	281	273	275	12
06ME50/3	VEINS-1	305	01	ROS/CTD	071401	0126	EN	64	44.88	N	27	00.04	W	GPS	281			
06ME50/3	VEINS-1	306	01	ROS/CTD	071401	0231	BE	64	44.88	N	26	39.99	W	GPS	249			
06ME50/3	VEINS-1	306	01	ROS/CTD	071401	0242	BO	64	44.76	N	26	40.13	W	GPS	249	240	240	14
06ME50/3	VEINS-1	306	01	ROS/CTD	071401	0248	EN	64	44.75	N	26	40.20	W	GPS	248			