

Readme for CTD Data obtained onboard the R/V Mirai

March 10, 2017

<< System Information >>

< Underwater unit >

SBE9plus (S/N 09P21746-0575, Sea-Bird Electronics, Inc.)

Pressure sensor:

Digiquartz pressure sensor (S/N 0575_79492)

Calibrated Date: 07 Apr. 2015

Temperature sensors:

Primary: SBE03-04/F (S/N 031464, Sea-Bird Electronics, Inc.)

Calibrated Date: 01 May 2015

Secondary: SBE03Plus (S/N 03P4421, Sea-Bird Electronics, Inc.)

Calibrated Date: 29 Oct. 2014

Conductivity sensors:

Primary: SBE04C (S/N 043036, Sea-Bird Electronics, Inc.)

Calibrated Date: 06 May 2015

Secondary: SBE04-04/0 (S/N 041206, Sea-Bird Electronics, Inc.)

Calibrated Date: 17 Sept. 2015

Dissolved Oxygen sensor:

Primary: SBE43 (S/N 430330, Sea-Bird Electronics, Inc.)

Calibrated Date: 21 Jul. 2015

Secondary: SBE43 (S/N 432211, Sea-Bird Electronics, Inc.)

Calibrated Date: 26 Feb. 2015

Fluorescence:

Chlorophyll Fluorometer (S/N 3618, Seapoint Sensors, Inc.)

Gain setting: 10X, 0-15 µg/l

Calibrated Date: None

Offset: 0.000

Photosynthetically Active Radiation:

PAR sensor (S/N 049, Satlantic Inc.)

Calibrated Date: 22 Jan. 2009

Altimeter:

Benthos PSA-916T (S/N 1157, Teledyne Benthos, Inc.)

Carousel water sampler:

SBE32 (S/N 3271515-0924, Sea-Bird Electronics, Inc.)

Submersible Pump:

Primary: SBE5T (S/N 054595, Sea-Bird Electronics, Inc.)

Secondary: SBE5T (S/N 053118, Sea-Bird Electronics, Inc.)

< Deck unit >

SBE11plus (S/N 11P54451-0872, Sea-Bird Electronics, Inc.)

<< Quality Control >>

Corrections were applied based on the sampled water analyses for salinity, dissolved oxygen, and fluorescence.

Details can be found in the MR15-04 Cruise Report (Sections 5.16 - 5.18).

QC information is flagged as [1] Not calibrated, [2] Acceptable measurement, and [3] Bad measurement.

<< Data Format >>

“*.wct” file contains the final products of CTD profiles as ASCII after applying corrections based on sampled water analyses.

Parameters stored are;

pressure (dbar), depth (m), temperature (degree-C), salinity, conductivity (S/m), dissolved oxygen (micro mol/kg), dissolved oxygen (voltage), fluorescence (mg/cum), PAR/irradiance, potential temperature (degree-C), and density (kg/m³).

<< Cast Information >>

Station No.	Cast No.	Date(UTC)	Time(UTC)		BottomPosition		Depth (m)	CTD Filename
		(mmddyy)	Start	End	Latitude	Longitude		
L01	1	112015	23:41	00:39	06-05.29S	100-57.50E	5364.0	L01M001
L02	1	112115	02:10	02:49	06-00.11S	101-00.18E	5590.0	L02M001
L03	1	112115	04:05	04:26	05-55.06S	101-02.75E	5922.0	L03M001
L04	1	112115	05:39	06:00	05-50.28S	101-05.07E	6130.0	L04M001
L05	1	112115	07:07	07:51	05-45.17S	101-07.82E	6042.0	L05M001
L06	1	112115	09:06	09:29	05-40.21S	101-10.09E	5373.0	L06M001
L07	1	112115	10:35	10:58	05-35.22S	101-12.63E	4219.0	L07M001
L08	1	112115	12:05	12:42	05-30.19S	101-15.04E	3104.0	L08M001
L09	1	112115	13:59	14:25	05-25.13S	101-17.80E	3628.0	L09M001
L10	1	112115	15:38	16:03	05-20.20S	101-20.11E	3299.0	L10M001
L11	1	112115	17:24	18:00	05-15.04S	101-22.58E	2719.0	L11M001
L12	1	112115	19:15	19:36	05-10.10S	101-25.13E	2858.0	L12M001
L13	1	112115	20:43	21:05	05-05.03S	101-27.37E	2271.0	L13M001
L14	1	112115	22:12	22:53	05-00.15S	101-30.17E	1311.0	L14M001
L15	1	112215	00:03	00:24	04-55.12S	101-32.55E	1012.0	L15M001
L16	1	112215	01:30	01:52	04-50.03S	101-35.25E	929.0	L16M001
L17	1	112215	03:20	04:02	04-45.19S	101-37.72E	814.0	L17M001
L18	1	112215	05:24	05:45	04-40.02S	101-40.26E	1000.0	L18M001
L19	1	112215	06:54	07:15	04-35.03S	101-42.69E	1219.0	L19M001
L20	1	112215	08:24	09:01	04-30.03S	101-45.15E	1284.0	L20M001
L21	1	112215	10:14	10:39	04-25.08S	101-47.60E	1448.0	L21M001

L22	1	112215	11:50	12:11	04-19.96S	101-49.98E	1367.0	L22M001
L23	1	112215	13:23	14:00	04-14.98S	101-52.56E	1139.0	L23M001
L24	1	112215	15:11	15:32	04-10.05S	101-54.96E	875.0	L24M001
L25	1	112215	16:43	17:01	04-04.97S	101-57.64E	394.0	L25M001
L26	1	112215	18:08	18:32	03-59.86S	101-59.91E	217.0	L26M001
STN	1	112315	05:37	06:09	04-04.14S	101-53.92E	677.0	STNM001
STN	2	112315	08:37	08:49	04-04.83S	101-54.25E	758.0	STNM002
STN	3	112315	11:39	12:07	04-05.00S	101-55.92E	553.0	STNM003
STN	4	112315	14:39	14:54	04-04.90S	101-53.23E	766.0	STNM004
STN	5	112315	17:38	18:04	04-02.82S	101-53.34E	705.0	STNM005
STN	6	112315	20:41	20:54	04-03.97S	101-53.02E	745.0	STNM006
STN	7	112315	23:40	00:25	04-04.38S	101-52.80E	772.0	STNM007
STN	8	112415	02:40	02:54	04-02.56S	101-53.07E	732.0	STNM008
STN	9	112415	05:42	06:08	04-03.50S	101-53.07E	742.0	STNM009
STN	10	112415	08:37	08:49	04-03.26S	101-53.48E	690.0	STNM010
STN	11	112415	11:40	12:06	04-04.00S	101-53.16E	738.0	STNM011
STN	12	112415	14:39	14:51	04-03.05S	101-53.04E	713.0	STNM012
STN	13	112415	17:38	18:03	04-02.63S	101-53.87E	676.0	STNM013
STN	14	112415	20:41	20:54	04-03.68S	101-52.72E	780.0	STNM014
STN	15	112415	23:39	00:22	04-04.30S	101-53.04E	753.0	STNM015
STN	16	112515	02:40	02:55	04-03.46S	101-53.71E	674.0	STNM016
STN	17	112515	05:40	06:13	04-03.10S	101-54.55E	600.0	STNM017
STN	18	112515	08:37	08:50	04-03.45S	101-54.10E	646.0	STNM018
STN	19	112515	11:38	12:05	04-04.15S	101-52.80E	771.0	STNM019
STN	20	112515	14:35	14:48	04-04.23S	101-53.36E	731.0	STNM020
STN	21	112515	17:37	18:03	04-03.22S	101-53.21E	708.0	STNM021
STN	22	112515	20:41	20:54	04-03.93S	101-54.61E	632.0	STNM022
STN	23	112515	23:39	00:34	04-04.17S	101-52.99E	754.0	STNM023
STN	24	112615	02:41	02:53	04-03.80S	101-54.02E	669.0	STNM024
STN	25	112615	05:40	06:13	04-03.29S	101-54.37E	617.0	STNM025
STN	26	112615	08:37	08:49	04-04.06S	101-54.11E	659.0	STNM026
STN	27	112615	11:38	12:04	04-04.14S	101-53.38E	725.0	STNM027
STN	28	112615	14:38	14:51	04-03.20S	101-54.37E	618.0	STNM028
STN	29	112615	17:35	18:00	04-03.21S	101-54.44E	613.0	STNM029
STN	30	112615	20:41	20:53	04-04.06S	101-54.24E	654.0	STNM030
STN	31	112615	23:45	00:24	04-04.44S	101-53.47E	739.0	STNM031
STN	32	112715	02:41	02:54	04-05.22S	101-54.33E	691.0	STNM032
STN	33	112715	05:39	06:04	04-05.01S	101-54.42E	690.0	STNM033
STN	34	112715	08:37	08:49	04-04.03S	101-54.13E	659.0	STNM034
STN	35	112715	11:40	12:07	04-03.97S	101-53.30E	722.0	STNM035
STN	36	112715	14:41	14:53	04-02.97S	101-55.19E	543.0	STNM036
STN	37	112715	17:38	18:02	04-02.76S	101-54.46E	628.0	STNM037
STN	38	112715	20:42	20:55	04-03.65S	101-54.06E	655.0	STNM038
STN	39	112715	23:40	00:22	04-04.24S	101-53.33E	734.0	STNM039
STN	40	112815	02:39	02:51	04-03.51S	101-54.18E	643.0	STNM040
STN	41	112815	05:40	06:12	04-04.32S	101-53.73E	704.0	STNM041

STN	42	112815	08:37	08:49	04-03.30S	101-53.40E	696.0	STNM042
STN	43	112815	11:41	12:07	04-03.51S	101-52.99E	750.0	STNM043
STN	44	112815	14:40	14:52	04-02.49S	101-53.75E	648.0	STNM044
STN	45	112815	18:02	18:26	04-05.25S	101-54.40E	682.0	STNM045
STN	46	112815	20:42	20:55	04-03.09S	101-55.67E	509.0	STNM046
STN	47	112815	23:39	00:16	04-04.17S	101-53.27E	735.0	STNM047
STN	48	112915	02:42	02:54	04-03.02S	101-53.77E	656.0	STNM048
STN	49	112915	05:40	06:11	04-04.49S	101-53.57E	749.0	STNM049
STN	50	112915	08:38	08:50	04-03.57S	101-53.52E	692.0	STNM050
STN	51	112915	11:38	12:02	04-04.16S	101-53.32E	732.0	STNM051
STN	52	112915	14:42	14:52	04-04.56S	101-53.43E	780.0	STNM052
STN	53	112915	17:37	18:03	04-03.02S	101-53.99E	639.0	STNM053
STN	54	112915	20:40	20:53	04-03.64S	101-54.69E	615.0	STNM054
STN	55	112915	23:41	00:24	04-04.09S	101-52.98E	754.0	STNM055
STN	56	113015	02:42	02:52	04-03.50S	101-53.46E	696.0	STNM056
STN	57	113015	05:39	06:06	04-04.23S	101-53.53E	717.0	STNM057
STN	58	113015	08:38	08:50	04-04.71S	101-53.49E	760.0	STNM058
STN	59	113015	11:37	12:02	04-04.04S	101-53.77E	687.0	STNM059
STN	60	113015	14:41	14:52	04-05.39S	101-54.03E	730.0	STNM060
STN	61	113015	17:38	18:05	04-04.26S	101-53.47E	723.0	STNM061
STN	62	113015	20:41	20:54	04-04.95S	101-53.16E	772.0	STNM062
STN	63	113015	23:40	00:19	04-04.19S	101-52.92E	759.0	STNM063
STN	64	120115	02:40	02:51	04-03.26S	101-53.84E	660.0	STNM064
STN	65	120115	05:40	06:12	04-03.32S	101-53.60E	681.0	STNM065
STN	66	120115	08:38	08:51	04-03.98S	101-53.42E	714.0	STNM066
STN	67	120115	11:37	12:02	04-04.05S	101-52.90E	760.0	STNM067
STN	68	120115	14:34	14:46	04-04.36S	101-53.89E	712.0	STNM068
STN	69	120115	17:40	18:08	04-02.87S	101-53.55E	687.0	STNM069
STN	70	120115	20:42	20:55	04-03.78S	101-53.83E	691.0	STNM070
STN	71	120115	23:39	00:16	04-04.19S	101-54.12E	671.0	STNM071
STN	72	120215	02:41	02:52	04-03.34S	101-54.19E	635.0	STNM072
STN	73	120215	05:39	06:09	04-03.04S	101-54.83E	579.0	STNM073
STN	74	120215	08:37	08:50	04-03.19S	101-53.02E	721.0	STNM074
STN	75	120215	11:40	12:04	04-03.76S	101-53.15E	737.0	STNM075
STN	76	120215	14:39	14:50	04-04.00S	101-54.19E	653.0	STNM076
STN	77	120215	17:42	18:09	04-02.85S	101-53.99E	673.0	STNM077
STN	78	120215	20:40	20:53	04-03.74S	101-54.22E	657.0	STNM078
STN	79	120215	23:39	00:26	04-04.26S	101-52.78E	770.0	STNM079
STN	80	120315	02:47	02:58	04-02.98S	101-54.28E	628.0	STNM080
STN	81	120315	05:39	06:04	04-04.58S	101-53.74E	743.0	STNM081
STN	82	120315	08:40	08:53	04-03.15S	101-54.50E	607.0	STNM082
STN	83	120315	11:38	12:05	04-03.89S	101-53.47E	705.0	STNM083
STN	84	120315	14:39	14:50	04-03.07S	101-53.37E	685.0	STNM084
STN	85	120315	17:41	18:07	04-02.14S	101-54.10E	618.0	STNM085
STN	86	120315	20:41	20:54	04-03.82S	101-55.55E	546.0	STNM086
STN	87	120315	23:39	00:19	04-03.80S	101-53.57E	698.0	STNM087

STN	88	120415	02:42	02:52	04-02.52S	101-53.64E	683.0	STNM088
STN	89	120415	05:40	06:13	04-02.65S	101-54.70E	600.0	STNM089
STN	90	120415	08:39	08:52	04-04.23S	101-53.64E	703.0	STNM090
STN	91	120415	11:40	12:07	04-03.91S	101-53.41E	715.0	STNM091
STN	92	120415	14:37	14:48	04-04.98S	101-54.06E	785.0	STNM092
STN	93	120415	17:39	18:06	04-03.23S	101-53.59E	680.0	STNM093
STN	94	120415	20:40	20:52	04-04.31S	101-53.71E	711.0	STNM094
STN	95	120415	23:39	00:16	04-03.45S	101-53.37E	707.0	STNM095
STN	96	120515	02:39	02:50	04-04.55S	101-52.90E	789.0	STNM096
STN	97	120515	05:39	06:05	04-04.09S	101-52.69E	770.0	STNM097
STN	98	120515	08:38	08:51	04-03.69S	101-53.78E	675.0	STNM098
STN	99	120515	11:38	12:03	04-03.82S	101-53.62E	697.0	STNM099
STN	100	120515	14:34	14:46	04-04.22S	101-53.66E	703.0	STNM100
STN	101	120515	17:38	18:04	04-05.22S	101-53.91E	762.0	STNM101
STN	102	120515	20:40	20:52	04-04.19S	101-54.72E	621.0	STNM102
STN	103	120515	23:39	00:20	04-04.09S	101-53.32E	727.0	STNM103
STN	104	120615	02:39	02:50	04-04.55S	101-54.03E	686.0	STNM104
STN	105	120615	05:38	06:03	04-04.65S	101-53.54E	769.0	STNM105
STN	106	120615	08:38	08:50	04-03.57S	101-53.99E	658.0	STNM106
STN	107	120615	11:38	12:03	04-04.12S	101-53.19E	738.0	STNM107
STN	108	120615	14:38	14:50	04-03.91S	101-53.68E	698.0	STNM108
STN	109	120615	17:39	18:05	04-04.71S	101-53.47E	766.0	STNM109
STN	110	120615	20:39	20:52	04-03.89S	101-53.88E	678.0	STNM110
STN	111	120615	23:40	00:18	04-04.26S	101-53.26E	744.0	STNM111
STN	112	120715	02:40	02:52	04-04.12S	101-54.21E	662.0	STNM112
STN	113	120715	05:40	06:11	04-03.89S	101-53.23E	729.0	STNM113
STN	114	120715	08:38	08:50	04-05.08S	101-52.93E	797.0	STNM114
STN	115	120715	11:38	12:02	04-04.42S	101-53.15E	769.0	STNM115
STN	116	120715	14:38	14:49	04-03.89S	101-53.27E	727.0	STNM116
STN	117	120715	17:37	18:03	04-04.85S	101-53.11E	807.0	STNM117
STN	118	120715	20:38	20:50	04-03.78S	101-54.86E	603.0	STNM118
STN	119	120715	23:39	00:12	04-04.41S	101-52.98E	764.0	STNM119
STN	120	120815	02:40	02:51	04-05.17S	101-53.49E	815.0	STNM120
STN	121	120815	05:39	06:10	04-04.08S	101-53.61E	703.0	STNM121
STN	122	120815	08:37	08:50	04-05.09S	101-53.69E	812.0	STNM122
STN	123	120815	11:37	12:01	04-04.17S	101-53.00E	757.0	STNM123
STN	124	120815	14:39	14:51	04-04.13S	101-53.59E	711.0	STNM124
STN	125	120815	17:37	18:03	04-04.31S	101-53.12E	749.0	STNM125
STN	126	120815	20:40	20:52	04-03.45S	101-53.72E	674.0	STNM126
STN	127	120815	23:39	00:12	04-04.19S	101-53.22E	739.0	STNM127
STN	128	120915	02:40	02:51	04-03.17S	101-53.26E	701.0	STNM128
STN	129	120915	05:39	06:11	04-05.39S	101-53.39E	833.0	STNM129
STN	130	120915	08:37	08:50	04-05.04S	101-53.13E	771.0	STNM130
STN	131	120915	11:38	12:06	04-04.09S	101-53.27E	732.0	STNM131
STN	132	120915	14:37	14:48	04-04.77S	101-53.54E	739.0	STNM132
STN	133	120915	17:37	18:02	04-03.66S	101-54.15E	653.0	STNM133

STN	134	120915	20:40	20:52	04-03.18S	101-54.21E	628.0	STNM134
STN	135	120915	23:39	00:19	04-04.34S	101-52.96E	757.0	STNM135
STN	136	121015	02:39	02:50	04-04.86S	101-52.80E	846.0	STNM136
STN	137	121015	05:39	06:09	04-04.16S	101-52.87E	767.0	STNM137
STN	138	121015	08:37	08:50	04-03.64S	101-52.73E	781.0	STNM138
STN	139	121015	11:40	12:02	04-04.13S	101-52.89E	761.0	STNM139
STN	140	121015	14:36	14:47	04-03.04S	101-53.98E	641.0	STNM140
STN	141	121015	17:37	18:03	04-02.79S	101-53.79E	704.0	STNM141
STN	142	121015	20:40	20:53	04-03.12S	101-53.43E	682.0	STNM142
STN	143	121015	23:38	00:12	04-04.16S	101-52.82E	766.0	STNM143
STN	144	121115	02:41	02:52	04-02.92S	101-53.30E	695.0	STNM144
STN	145	121115	05:38	06:08	04-04.02S	101-52.72E	769.0	STNM145
STN	146	121115	08:37	08:49	04-04.78S	101-52.77E	834.0	STNM146
STN	147	121115	11:38	12:02	04-04.03S	101-53.30E	729.0	STNM147
STN	148	121115	14:32	14:44	04-02.86S	101-53.23E	711.0	STNM148
STN	149	121115	17:37	18:06	04-03.78S	101-53.87E	684.0	STNM149
STN	150	121115	20:39	20:52	04-02.77S	101-54.51E	628.0	STNM150
STN	151	121115	23:40	00:19	04-04.06S	101-53.34E	725.0	STNM151
STN	152	121215	02:40	02:51	04-03.30S	101-54.58E	610.0	STNM152
STN	153	121215	05:38	06:02	04-03.22S	101-53.86E	658.0	STNM153
STN	154	121215	08:38	08:50	04-03.88S	101-53.72E	693.0	STNM154
STN	155	121215	11:37	12:03	04-04.06S	101-53.40E	719.0	STNM155
STN	156	121215	14:39	14:50	04-04.23S	101-53.55E	718.0	STNM156
STN	157	121215	17:37	18:02	04-03.25S	101-53.28E	706.0	STNM157
STN	158	121215	20:39	20:52	04-03.29S	101-53.81E	662.0	STNM158
STN	159	121215	23:39	00:16	04-03.34S	101-53.94E	657.0	STNM159
STN	160	121315	02:39	03:21	04-03.44S	101-53.78E	669.0	STNM160
STN	161	121315	05:39	06:08	04-03.60S	101-54.22E	642.0	STNM161
STN	162	121315	08:42	08:53	04-03.16S	101-54.22E	624.0	STNM162
STN	163	121315	11:40	12:04	04-03.64S	101-53.81E	672.0	STNM163
STN	164	121315	14:37	14:49	04-04.01S	101-53.67E	696.0	STNM164
STN	165	121315	17:38	18:04	04-03.44S	101-53.72E	674.0	STNM165
STN	166	121315	20:40	20:52	04-03.71S	101-53.70E	683.0	STNM166
STN	167	121315	23:39	00:12	04-03.82S	101-53.99E	670.0	STNM167
STN	168	121415	02:40	02:51	04-03.24S	101-53.90E	654.0	STNM168
STN	169	121415	05:38	06:06	04-02.77S	101-54.25E	654.0	STNM169
STN	170	121415	08:37	08:48	04-03.23S	101-53.72E	668.0	STNM170
STN	171	121415	11:33	11:57	04-03.38S	101-53.61E	684.0	STNM171
STN	172	121415	14:37	14:49	04-02.37S	101-53.45E	653.0	STNM172
STN	173	121415	17:38	18:03	04-03.22S	101-53.21E	709.0	STNM173
STN	174	121415	20:39	20:52	04-04.01S	101-53.07E	746.0	STNM174
STN	175	121415	23:40	00:19	04-03.36S	101-53.19E	733.0	STNM175
STN	176	121515	02:39	02:50	04-02.85S	101-54.47E	640.0	STNM176
STN	177	121515	05:39	06:06	04-02.85S	101-53.71E	691.0	STNM177
STN	178	121515	08:39	08:49	04-04.37S	101-53.67E	716.0	STNM178
STN	179	121515	11:26	11:50	04-03.30S	101-53.89E	657.0	STNM179

STN	180	121515	14:38	14:50	04-03.63S	101-55.87E	513.0	STNM180
STN	181	121515	17:35	18:01	04-05.23S	101-54.45E	679.0	STNM181
STN	182	121515	20:37	20:49	04-04.25S	101-53.62E	708.0	STNM182
STN	183	121515	23:36	00:11	04-03.42S	101-53.84E	664.0	STNM183
STN	184	121615	02:35	02:47	04-03.37S	101-53.59E	685.0	STNM184
STN	185	121615	05:37	06:05	04-04.26S	101-54.57E	637.0	STNM185
STN	186	121615	08:37	08:48	04-03.82S	101-54.17E	655.0	STNM186
STN	187	121615	11:38	12:04	04-04.03S	101-53.87E	677.0	STNM187
STN	188	121615	14:32	14:43	04-03.59S	101-53.26E	718.0	STNM188
STN	189	121615	17:38	18:04	04-03.44S	101-54.57E	610.0	STNM189
STN	190	121615	20:41	20:53	04-03.87S	101-53.90E	675.0	STNM190
STN	191	121615	23:39	00:15	04-03.68S	101-53.61E	690.0	STNM191
STN	192	121715	02:39	02:51	04-03.69S	101-53.67E	686.0	STNM192
STN	193	121715	05:36	06:04	04-03.36S	101-53.76E	671.0	STNM193
STN	194	121715	08:39	08:50	04-03.65S	101-53.08E	739.0	STNM194
STN	195	121715	11:37	12:04	04-03.98S	101-53.43E	715.0	STNM195