

Zimbra

yzhang@mbari.org

Re: CTD values from Tethys - deployment 100**From :** Brian Kieft <bkieft@mbari.org>

Wed, Oct 14, 2015 02:25 PM

Subject : Re: CTD values from Tethys - deployment 100

To : Brett Hobson <hobson@mbari.org>, Michael Jordan Stanway <mjstanway@mbari.org>, Yanwu Zhang <yzhang@mbari.org>, Francisco Chavez <chfr@mbari.org>, Monique Messié <monique@mbari.org>, Jason Smith <jsmith@mbari.org>

Reply To : Brian Kieft <bkieft@mbari.org>

Tethys post-deployment 101 - MBTS sampling mission

There is an apparent A/D issue with Tethys' CTD. It seemed okay in the pre-deployment data I sent out (bottom) but starting with the first mission in the ocean, things began going out of range. In the example below, depth is even noisy. We'll be looking into the issue.

Tank:

Last Acquired CTD Sample				
Timestamp (PST8PDT)	Salinity (psu)	Temperature (C)	Pressure (dbar)	Sigma-t (kg/m ³)
Wed 14 Oct 2015 13:30:10	34.6967	20.2493	0.738	24.4658

Tethys:

12.18,20.27576,22.04315,14.7432*01
42.01,20.27374,22.03955,14.7365*04
57.49,20.27249,22.03906,14.7341*03
63.06,20.27206,22.05334,14.7438*00
60.47,20.27167,22.04788,14.7403*08
39.65,20.27600,22.04371,14.7391*0C
41.59,20.27252,22.04819,14.7433*05
33.82,20.27215,22.03501,14.7351*05
24.96,20.27270,22.03800,14.7385*00
16.65,20.27341,22.05983,14.7555*09
9.68,20.27365,22.21638,14.8710*19
4.98,20.27386,22.90460,15.3760*1E
2.57,20.27392,24.29937,16.4037*14
1.71,20.27487,26.27737,17.8724*1A
1.48,20.27753,28.29707,19.3853*13
1.41,20.27560,31.06997,21.4873*14
1.39,20.27563,33.89078,23.6506*1A
1.36,20.27377,37.00411,26.0687*11
1.35,20.27594,40.42621,28.7587*14
1.33,20.27536,44.06975,31.6639*1F
1.32,20.27676,48.39792,35.1654*16
1.30,20.27621,52.99382,38.9464*16
1.28,20.27685,58.18679,43.2933*1B
1.27,20.27713,63.47147,47.8003*16
1.28,20.27753,67.80788,51.5616*1F

1.25,20.27743,73.17136,56.2943*14
1.25,20.27771,75.68981,58.5470*1B
1.23,20.27786,76.67794,59.4363*16
1.22,20.27768,77.02006,59.7453*1E
1.22,20.27814,77.26328,59.9643*1E
1.21,20.27804,77.36342,60.0549*1B
1.20,20.27750,77.46871,60.1509*1D
1.19,20.27786,77.49711,60.1760*17
1.19,20.27789,77.48562,60.1656*1B

From: "Brian Kieft" <bkieft@mbari.org>

To: "Brett Hobson" <hobson@mbari.org>, "Michael Jordan Stanway" <mjstanway@mbari.org>, "Yanwu Zhang" <yzhang@mbari.org>, "Francisco Chavez" <chfr@mbari.org>, "Monique Messié" <monique@mbari.org>, "Jason Smith" <jsmith@mbari.org>

Sent: Friday, October 9, 2015 3:43:02 PM

Subject: Re: CTD values from Tethys - deployment 100

Tethys post-deployment 100

Tank:

Last Acquired CTD Sample				
Timestamp (PST8PDT)	Salinity (psu)	Temperature (C)	Pressure (dbar)	Sigma-t (kg/m ³)
Fri 09 Oct 2015 15:30:09	34.6966	20.2668	0.723	24.4611

Tethys:

0.35,20.26968,47.58052,34.5058*1D
0.35,20.26892,47.58052,34.5064*16
0.35,20.26944,47.58132,34.5066*19
0.32,20.26898,47.58277,34.5082*16
0.34,20.26898,47.58203,34.5076*18
0.35,20.26880,47.58330,34.5087*1F
0.35,20.26913,47.58295,34.5082*1F
0.34,20.26874,47.58284,34.5084*18
0.35,20.26916,47.58315,34.5083*12
0.35,20.26846,47.57987,34.5062*17
0.35,20.26849,47.57598,34.5030*1D
0.35,20.26764,47.57112,34.4998*11
0.35,20.27014,47.56929,34.4962*14
0.36,20.26715,47.57002,34.4993*1F
0.34,20.26480,47.57063,34.5017*11
0.34,20.26745,47.57178,34.5005*13
0.34,20.26291,47.57313,34.5053*13
0.34,20.26160,47.57324,34.5065*1F
0.38,20.26196,47.57551,34.5080*15
0.35,20.26303,47.57473,34.5065*1C
0.34,20.26266,47.57505,34.5071*1A
0.35,20.26160,47.57561,34.5084*16
0.35,20.26547,47.57344,34.5034*1D
0.34,20.26425,47.57320,34.5042*1A
0.35,20.26523,47.57275,34.5031*19

0.34,20.26681,47.57260,34.5017*13
0.35,20.26828,47.57053,34.4988*13
0.35,20.26672,47.56953,34.4992*11
0.35,20.26785,47.56958,34.4984*14
0.36,20.26782,47.56985,34.4986*12
0.34,20.26773,47.56965,34.4985*13
0.35,20.26721,47.56932,34.4987*15
0.35,20.26803,47.56945,34.4981*1C
0.35,20.26846,47.56853,34.4970*15
0.35,20.26871,47.56893,34.4971*1C
0.34,20.26822,47.56927,34.4978*1C
0.34,20.26944,47.56985,34.4973*1E
0.35,20.26861,47.56901,34.4973*15
0.35,20.26861,47.56997,34.4980*16
0.34,20.26791,47.57000,34.4986*17
0.36,20.26791,47.56990,34.4986*14
0.35,20.26883,47.57017,34.4980*1A
0.35,20.26868,47.57039,34.4983*10
0.36,20.26907,47.56975,34.4975*12
0.35,20.26852,47.57057,34.4986*14
0.35,20.26834,47.56972,34.4981*1C
0.35,20.26892,47.57122,34.4988*15
0.35,20.26831,47.57065,34.4989*1F

From: "Brian Kieft" <bkieft@mbari.org>

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Sent: Wednesday, October 7, 2015 8:41:03 AM

Subject: CTD values from Tethys - deployment 100

Tethys combined pre-deployment 100 MBTS / post-deployment 99 CANON

Tank:

Last Acquired CTD Sample				
Timestamp (PST8PDT)	Salinity (psu)	Temperature (C)	Pressure (dbar)	Sigma-t (kg/m ³)
Wed 07 Oct 2015 08:30:09	34.7056	20.2328	0.761	24.4770

Tethys:

0.65,20.27060,46.87352,33.9306*1B
0.66,20.27054,46.87490,33.9317*16
0.66,20.27161,46.87817,33.9335*12
0.65,20.27161,46.88022,33.9352*11
0.65,20.27310,46.88026,33.9340*12
0.65,20.27038,46.88437,33.9396*14
0.65,20.27060,46.88558,33.9404*1D
0.65,20.27014,46.89414,33.9477*12
0.65,20.27182,46.90163,33.9524*16
0.66,20.26990,46.92308,33.9714*13

0.65,20.27014,46.90188,33.9540*1F
0.64,20.27273,46.90403,33.9536*1A
0.65,20.27020,46.90564,33.9570*1D
0.65,20.27051,46.90868,33.9592*16
0.66,20.26840,46.91263,33.9641*11
0.66,20.27045,46.91037,33.9606*1D
0.65,20.27121,46.90428,33.9550*16
0.65,20.27048,46.91006,33.9603*14
0.66,20.26907,46.91681,33.9669*11
