

Zimbra

yzhang@mbari.org

Re: CTD values from Tethys - deployment 102 (MBTS)

From : Brian Kieft <bkieft@mbari.org>

Mon, Oct 26, 2015 04:04 PM

Subject : Re: CTD values from Tethys - deployment 102 (MBTS)**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>, Brent Jones <bjones@mbari.org>, Tim Pennington <peti@mbari.org>**Reply To :** Brian Kieft <bkieft@mbari.org>

Tethys post-deployment 102 MBTS

Tank:

Last Acquired CTD Sample				
Timestamp (PST8PDT)	Salinity (psu)	Temperature (C)	Pressure (dbar)	Sigma-t (kg/m ³)
Mon 26 Oct 2015 15:30:10	34.7084	20.1679	0.717	24.4963

Tethys:

0.56,20.17554,47.16683,34.2458*1A
0.57,20.17450,47.16051,34.2415*1E
0.56,20.17450,47.15803,34.2394*1D
0.56,20.17218,47.15863,34.2418*12
0.56,20.17529,47.15557,34.2368*1D
0.56,20.17370,47.15738,34.2396*1D
0.56,20.17349,47.16167,34.2432*11
0.57,20.17416,47.16578,34.2460*10
0.57,20.17370,47.17155,34.2511*1A
0.56,20.17407,47.17665,34.2550*1D
0.57,20.17627,47.18003,34.2559*1C
0.57,20.17547,47.17974,34.2563*16
0.56,20.17523,47.17921,34.2561*17
0.56,20.17319,47.17728,34.2562*1C
0.57,20.17374,47.17154,34.2511*1F
0.56,20.17459,47.16714,34.2468*1A
0.56,20.17419,47.16097,34.2421*1F
0.57,20.17499,47.15436,34.2361*19
0.57,20.17389,47.14726,34.2312*18
0.57,20.17410,47.14118,34.2260*10
0.57,20.17523,47.13584,34.2208*19

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>, "Brent Jones" <bjones@mbari.org>**Sent:** Friday, October 23, 2015 12:32:18 PM

Subject: Re: CTD values from Tethys - deployment 102 (MBTS)

Tethys pre-deployment 102 MBTS

Tank:

Last Acquired CTD Sample				
Timestamp (PST8PDT)	Salinity (psu)	Temperature (C)	Pressure (dbar)	Sigma-t (kg/m ³)
Fri 23 Oct 2015 12:30:09	34.6998	20.1949	0.747	24.4826

Tethys:

0.49,20.20361,46.11988,33.3730*19
0.49,20.20398,46.11967,33.3725*1A
0.48,20.20447,46.12330,33.3751*16
0.49,20.20648,46.11307,33.3652*1F
0.49,20.20581,46.12108,33.3722*11
0.49,20.20685,46.12100,33.3713*1C
0.49,20.20691,46.11215,33.3641*1B
0.49,20.20785,46.10783,33.3599*12
0.49,20.20657,46.12955,33.3785*14
0.50,20.20657,46.11085,33.3633*17
0.48,20.20441,46.12763,33.3786*18
0.49,20.20715,46.12824,33.3770*1E
0.49,20.20599,46.12207,33.3729*1F
0.50,20.20615,46.11301,33.3654*1F
0.49,20.20819,46.11443,33.3649*18
0.49,20.20749,46.13250,33.3801*16
0.49,20.20718,46.11499,33.3662*18
0.49,20.20599,46.10849,33.3619*1F
0.49,20.20364,46.11904,33.3723*1A
0.49,20.20499,46.11485,33.3678*14
0.49,20.20523,46.11782,33.3700*1E

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: Wednesday, October 14, 2015 2:25:11 PM

Subject: Re: CTD values from Tethys - deployment 100

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" <yzzhang@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

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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: 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