



Sea-Bird Scientific
 13431 NE 20th Street
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 USA

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 seabird@seabird.com
 www.seabird.com

SENSOR SERIAL NUMBER: 0305
 CALIBRATION DATE: 17-Aug-21

SBE 9plus PRESSURE CALIBRATION DATA
 10000 psia S/N 51408

DIGIQUARTZ COEFFICIENTS:

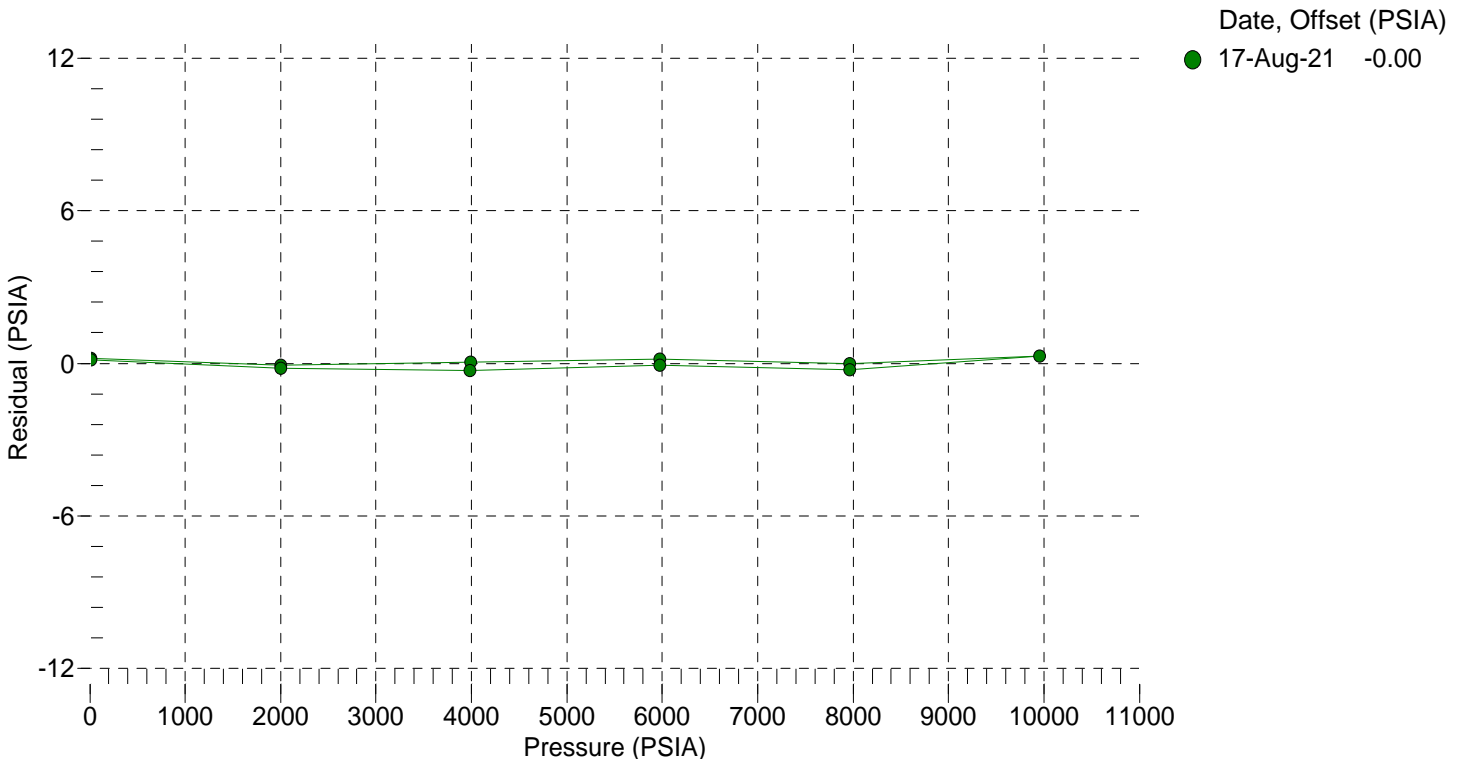
C1 = -4.891282e+004
 C2 = -2.198764e-002
 C3 = 1.462880e-002
 D1 = 3.911900e-002
 D2 = 0.000000e+000
 T1 = 3.018820e+001
 T2 = -2.313350e-004
 T3 = 3.644090e-006
 T4 = 2.939240e-009
 T5 = 0.000000e+000

AD590M, AD590B, SLOPE AND OFFSET:

AD590M = 1.28041e-002
 AD590B = -9.98995e+000
 Slope = 0.99993
 Offset = -1.7498 (dbars)

PRESSURE (PSIA)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT TEMPERATURE (°C)	INSTRUMENT PRESSURE (PSIA)	CORRECTED PRESSURE (PSIA)	RESIDUAL (PSIA)
14.494	33134.95	21.6	17.228	14.690	0.196
2001.341	33799.97	21.7	2003.946	2001.275	-0.066
3988.691	34450.42	21.7	3991.550	3988.747	0.056
5976.125	35086.85	21.8	5979.236	5976.301	0.176
7963.431	35709.88	21.8	7966.497	7963.429	-0.002
9951.028	36320.57	21.8	9954.511	9951.310	0.282
7963.410	35709.80	21.9	7966.221	7963.153	-0.257
5975.782	35086.68	21.9	5978.647	5975.711	-0.071
3987.804	34450.06	22.1	3990.328	3987.525	-0.279
2001.359	33799.98	22.2	2003.844	2001.174	-0.185
14.495	33134.97	22.2	17.180	14.642	0.147

Residual (PSIA) = corrected instrument pressure - reference pressure





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SENSOR SERIAL NUMBER: 1482
 CALIBRATION DATE: 03-Jul-21

SBE 3 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

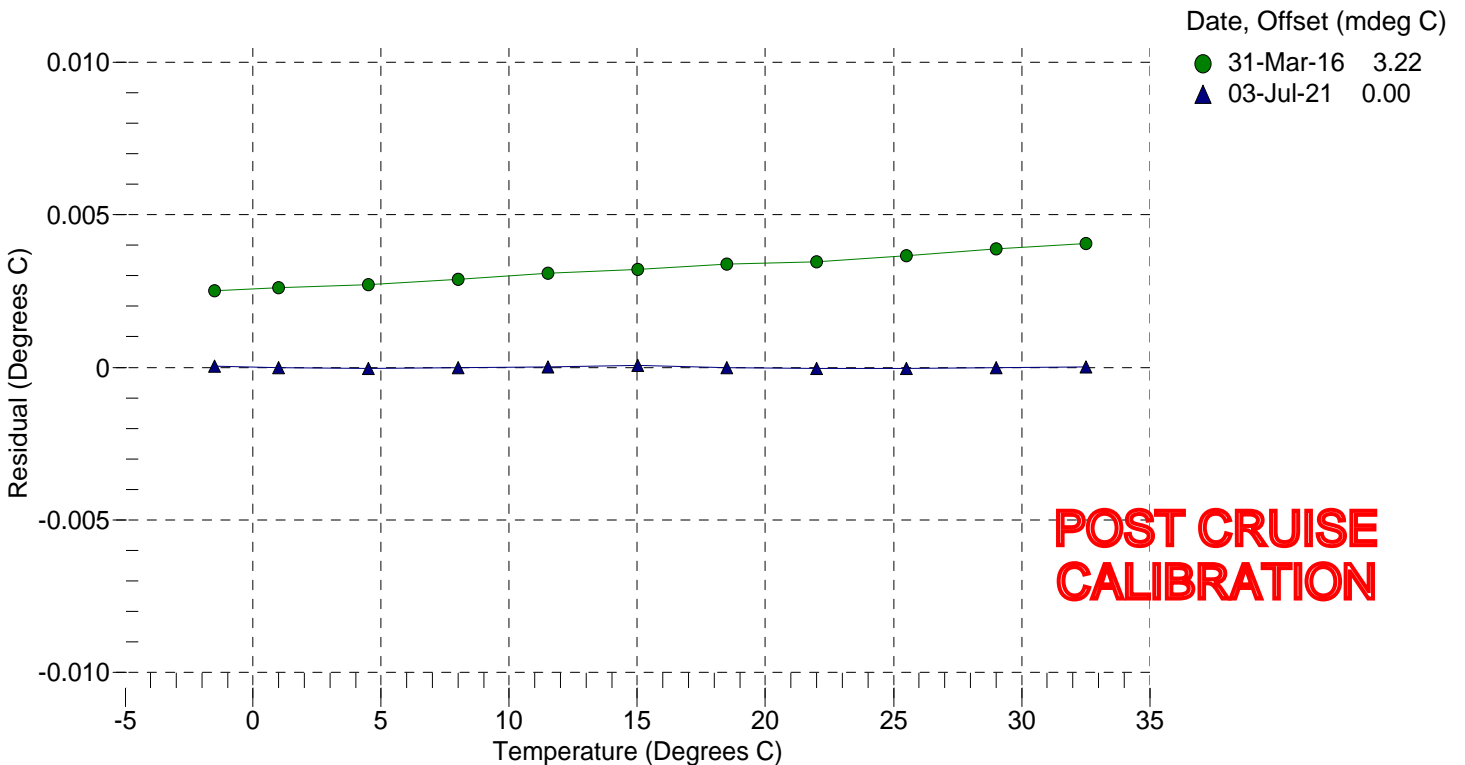
g = 4.84153801e-003
 h = 6.75151053e-004
 i = 2.64713465e-005
 j = 2.11291268e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	6239.145	-1.5000	0.00003
1.0000	6598.998	1.0000	-0.00002
4.5000	7127.603	4.5000	-0.00003
8.0000	7685.878	8.0000	-0.00001
11.5000	8274.602	11.5000	0.00002
15.0000	8894.540	15.0001	0.00007
18.5000	9546.395	18.5000	-0.00001
22.0000	10230.913	22.0000	-0.00003
25.5000	10948.771	25.5000	-0.00003
28.9999	11700.599	28.9999	-0.00001
32.5000	12487.087	32.5000	0.00002

f = Instrument Output (Hz)

$$\text{Temperature ITS-90 (°C)} = 1 / \{g + h[\ln(f_0 / f)] + i[\ln^2(f_0 / f)] + j[\ln^3(f_0 / f)]\} - 273.15$$

$$\text{Residual (°C)} = \text{instrument temperature} - \text{bath temperature}$$





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SENSOR SERIAL NUMBER: 1510
 CALIBRATION DATE: 07-Jul-21

SBE 3 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

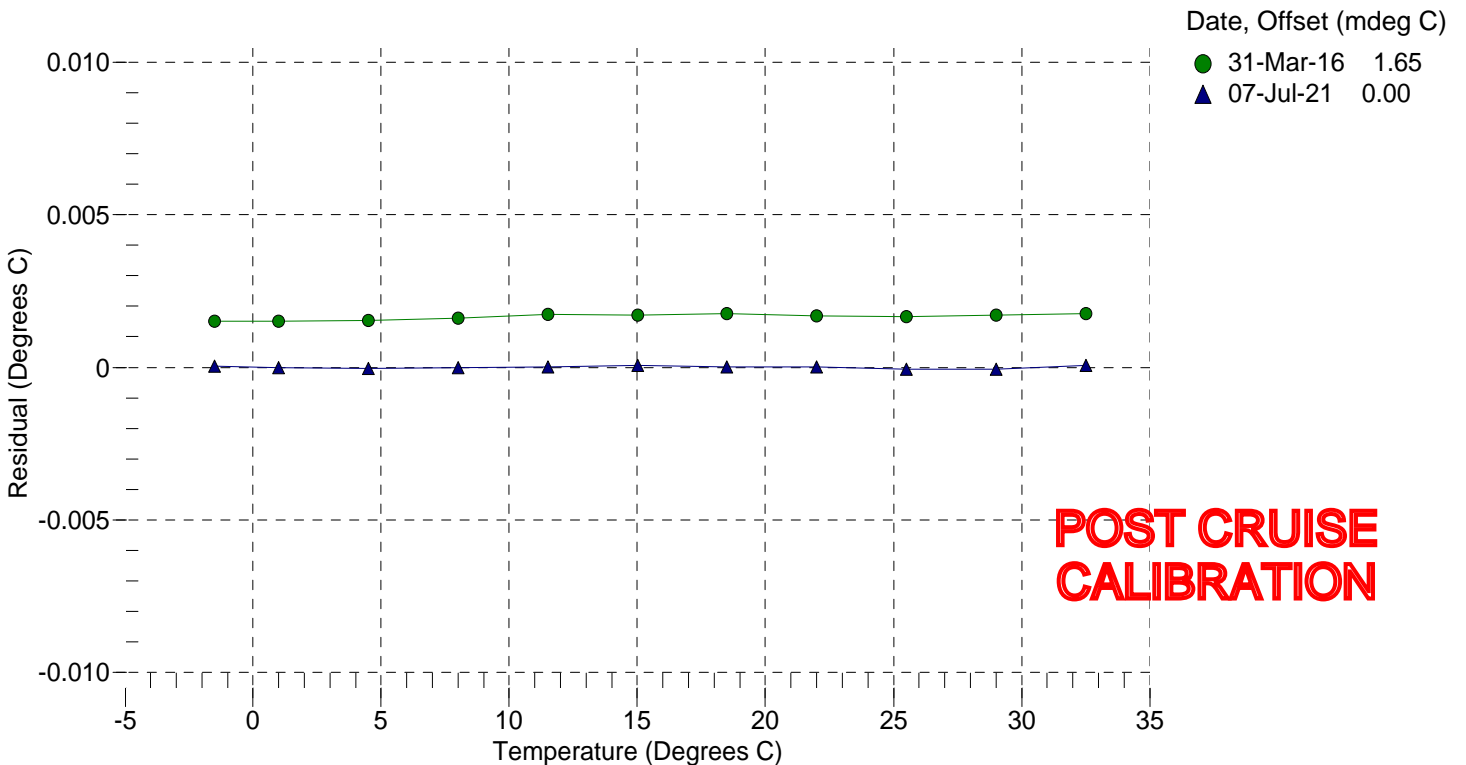
g = 4.84477501e-003
 h = 6.75615504e-004
 i = 2.63863103e-005
 j = 2.10398865e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	6261.606	-1.5000	0.00004
1.0000	6622.391	1.0000	-0.00002
4.5000	7152.322	4.5000	-0.00004
8.0000	7711.944	8.0000	-0.00002
11.5000	8302.031	11.5000	0.00001
15.0000	8923.346	15.0001	0.00007
18.5000	9576.591	18.5000	0.00001
22.0000	10262.506	22.0000	0.00001
25.5000	10981.743	25.4999	-0.00006
29.0000	11734.980	28.9999	-0.00006
32.5000	12522.856	32.5001	0.00006

f = Instrument Output (Hz)

$$\text{Temperature ITS-90 (°C)} = 1 / \{g + h[\ln(f_0 / f)] + i[\ln^2(f_0 / f)] + j[\ln^3(f_0 / f)]\} - 273.15$$

$$\text{Residual (°C)} = \text{instrument temperature} - \text{bath temperature}$$





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SENSOR SERIAL NUMBER: 4519
 CALIBRATION DATE: 30-Jun-21

SBE 3 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

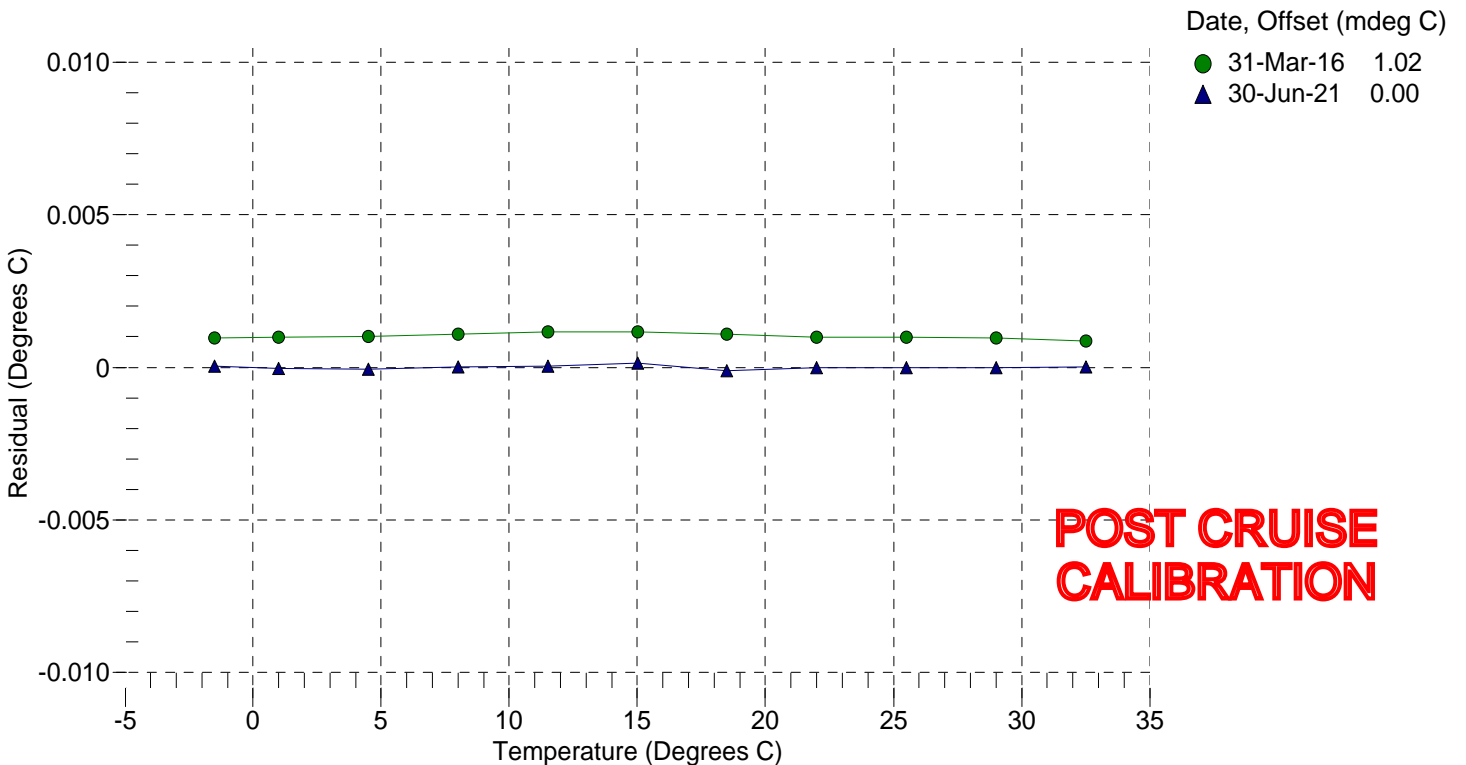
g = 4.32420457e-003
 h = 6.32367942e-004
 i = 2.02499197e-005
 j = 1.72429227e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2854.490	-1.5000	0.00004
1.0000	3020.234	1.0000	-0.00004
4.5000	3263.824	4.4999	-0.00006
8.0000	3521.240	8.0000	0.00000
11.5000	3792.855	11.5000	0.00003
15.0000	4079.050	15.0001	0.00014
18.5000	4380.150	18.4999	-0.00010
22.0000	4696.565	22.0000	-0.00002
25.5000	5028.601	25.5000	-0.00000
29.0000	5376.590	29.0000	-0.00001
32.5000	5740.856	32.5000	0.00002

f = Instrument Output (Hz)

$$\text{Temperature ITS-90 (°C)} = 1 / \{g + h[\ln(f_0 / f)] + i[\ln^2(f_0 / f)] + j[\ln^3(f_0 / f)]\} - 273.15$$

$$\text{Residual (°C)} = \text{instrument temperature} - \text{bath temperature}$$





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SENSOR SERIAL NUMBER: 1194
 CALIBRATION DATE: 15-Jul-21

SBE 4 CONDUCTIVITY CALIBRATION DATA
 PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -3.97879506e+000
 h = 5.17525925e-001
 i = 5.41932421e-004
 j = 1.93389068e-006

CPcor = -9.5700e-008 (nominal)
 CTcor = 3.2500e-006 (nominal)

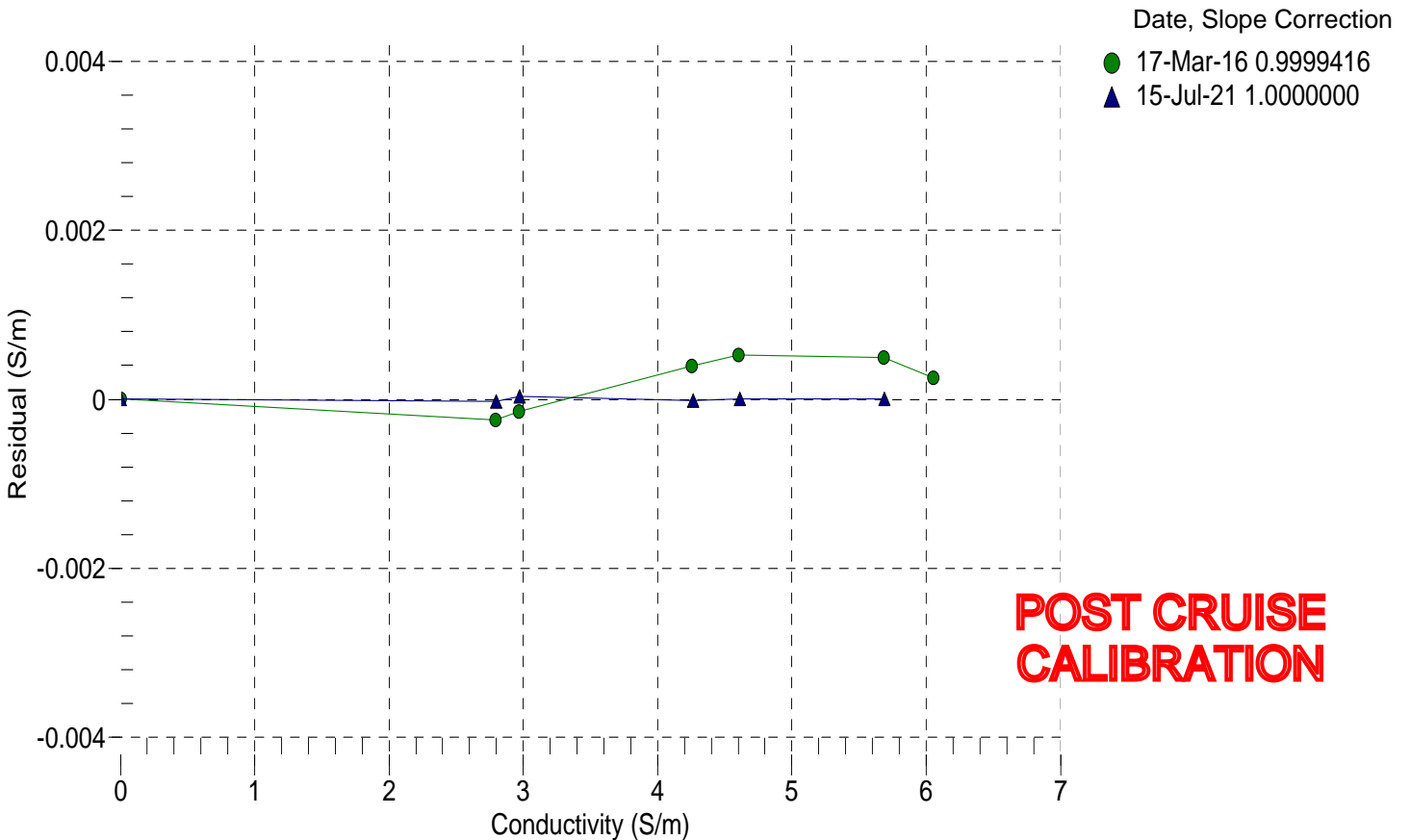
BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (kHz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
0.0000	0.0000	0.00000	2.76869	0.00000	0.00000
-1.0000	34.7479	2.79958	7.82730	2.79955	-0.00003
1.0000	34.7494	2.97079	8.03332	2.97082	0.00003
14.9999	34.7506	4.26440	9.44351	4.26439	-0.00001
18.5001	34.7491	4.61043	9.78590	4.61043	0.00000
29.0001	34.7413	5.69143	10.78463	5.69143	0.00000
32.5001	34.7213	6.06131	11.10645	6.06252	0.00122

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars); δ = CTcor; ϵ = CPcor;

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity





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SENSOR SERIAL NUMBER: 1195
 CALIBRATION DATE: 15-Jul-21

SBE 4 CONDUCTIVITY CALIBRATION DATA
 PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -3.92956218e+000 CPcor = -9.5700e-008 (nominal)
 h = 4.92266617e-001 CTcor = 3.2500e-006 (nominal)
 i = 2.16358815e-004
 j = 1.80374122e-005

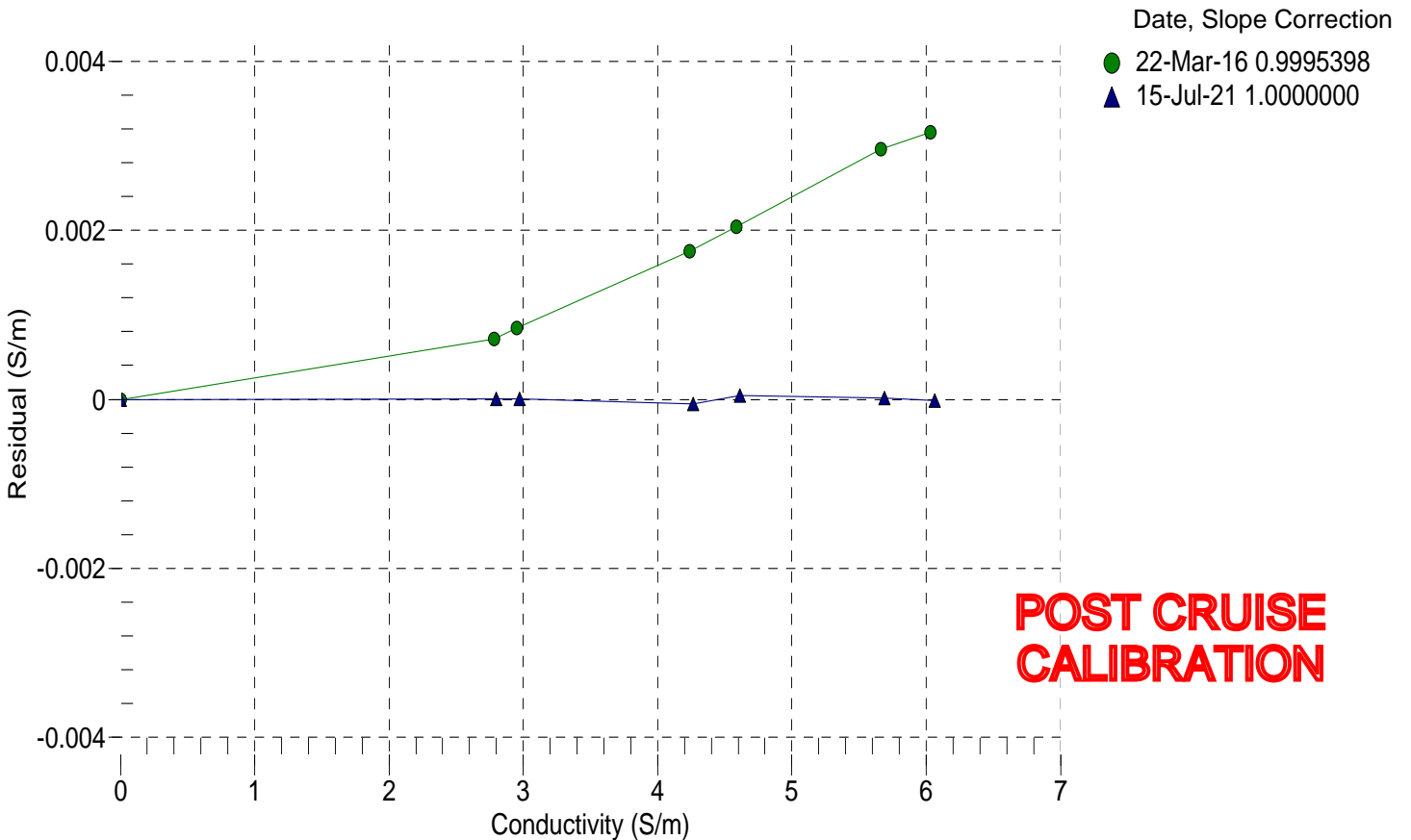
BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (kHz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
0.0000	0.0000	0.00000	2.82318	0.00000	0.00000
-1.0000	34.7479	2.79958	8.02956	2.79958	0.00001
1.0000	34.7494	2.97079	8.24118	2.97080	0.00000
14.9999	34.7506	4.26440	9.68972	4.26434	-0.00005
18.5001	34.7491	4.61043	10.04135	4.61047	0.00004
29.0001	34.7413	5.69143	11.06641	5.69144	0.00002
32.5001	34.7213	6.06131	11.39551	6.06129	-0.00002

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars); δ = CTcor; ε = CPcor;

Conductivity (S/m) = (g + h * f² + i * f³ + j * f⁴) / 10 (1 + δ * t + ε * p)

Residual (Siemens/meter) = instrument conductivity - bath conductivity





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SENSOR SERIAL NUMBER: 3115
 CALIBRATION DATE: 08-Jul-21

SBE 4 CONDUCTIVITY CALIBRATION DATA
 PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.03718002e+001 CPcor = -9.5700e-008 (nominal)
 h = 1.26301204e+000 CTcor = 3.2500e-006 (nominal)
 i = 2.97303947e-004
 j = 4.53000262e-005

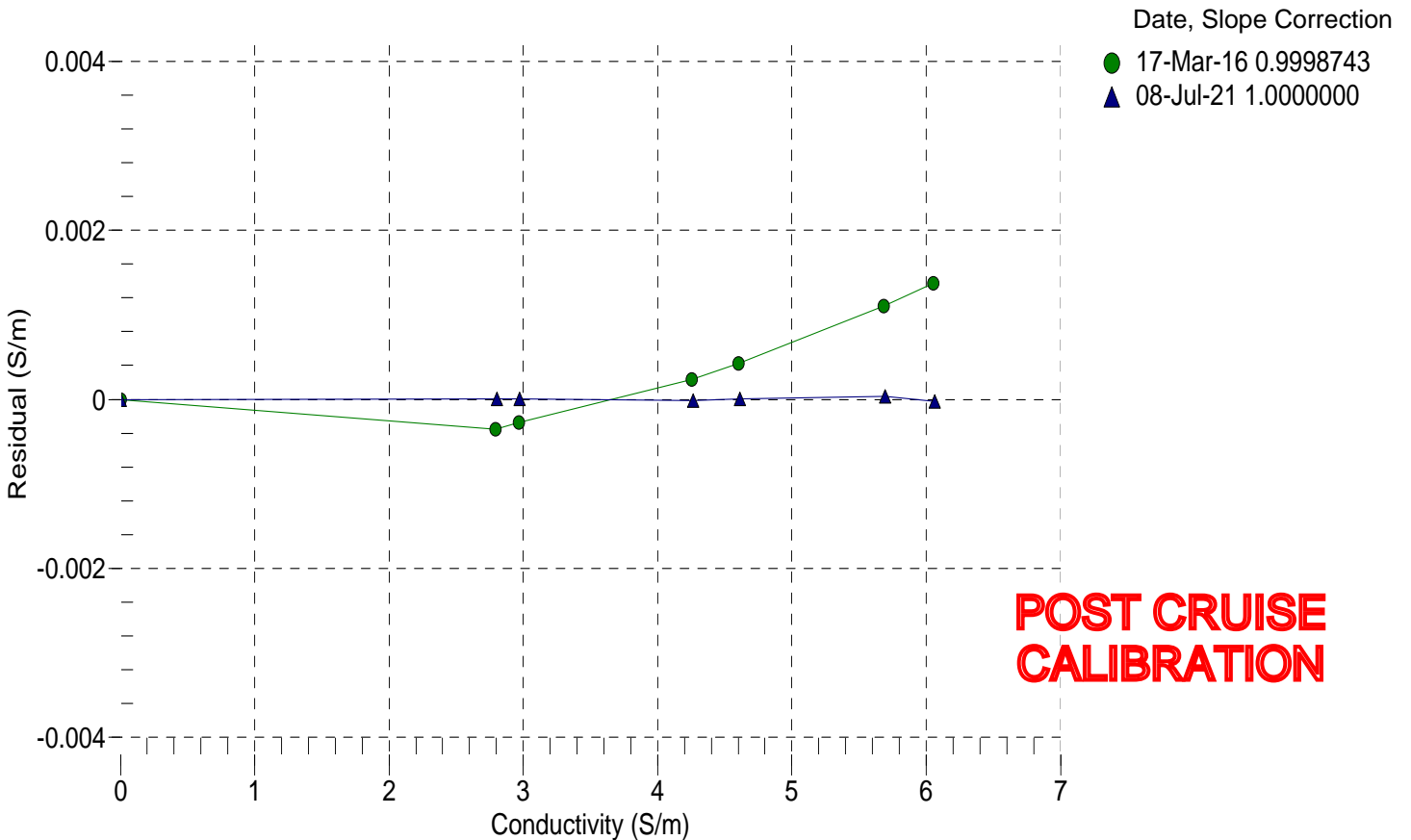
BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (kHz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
0.0000	0.0000	0.00000	2.86426	0.00000	0.00000
-1.0000	34.7776	2.80175	5.50661	2.80175	0.00001
1.0000	34.7780	2.97300	5.62789	2.97300	0.00000
15.0000	34.7785	4.26747	6.47107	4.26745	-0.00002
18.5000	34.7776	4.61379	6.67853	4.61379	0.00000
29.0001	34.7698	5.69557	7.28829	5.69560	0.00003
32.5000	34.7524	6.06611	7.48561	6.06609	-0.00002

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars); δ = CTcor; ε = CPcor;

Conductivity (S/m) = (g + h * f² + i * f³ + j * f⁴) / 10 (1 + δ * t + ε * p)

Residual (Siemens/meter) = instrument conductivity - bath conductivity





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SENSOR SERIAL NUMBER: 0846
 CALIBRATION DATE: 03-Jul-21

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS: A = -6.1501e-003
 Soc = 0.4755 B = 2.2838e-004
 Voffset = -0.5172 C = -2.9689e-006
 Tau20 = 1.30 E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS
 D1 = 1.92634e-4 H1 = -3.300000e-2
 D2 = -4.64803e-2 H2 = 5.00000e+3
 H3 = 1.45000e+3

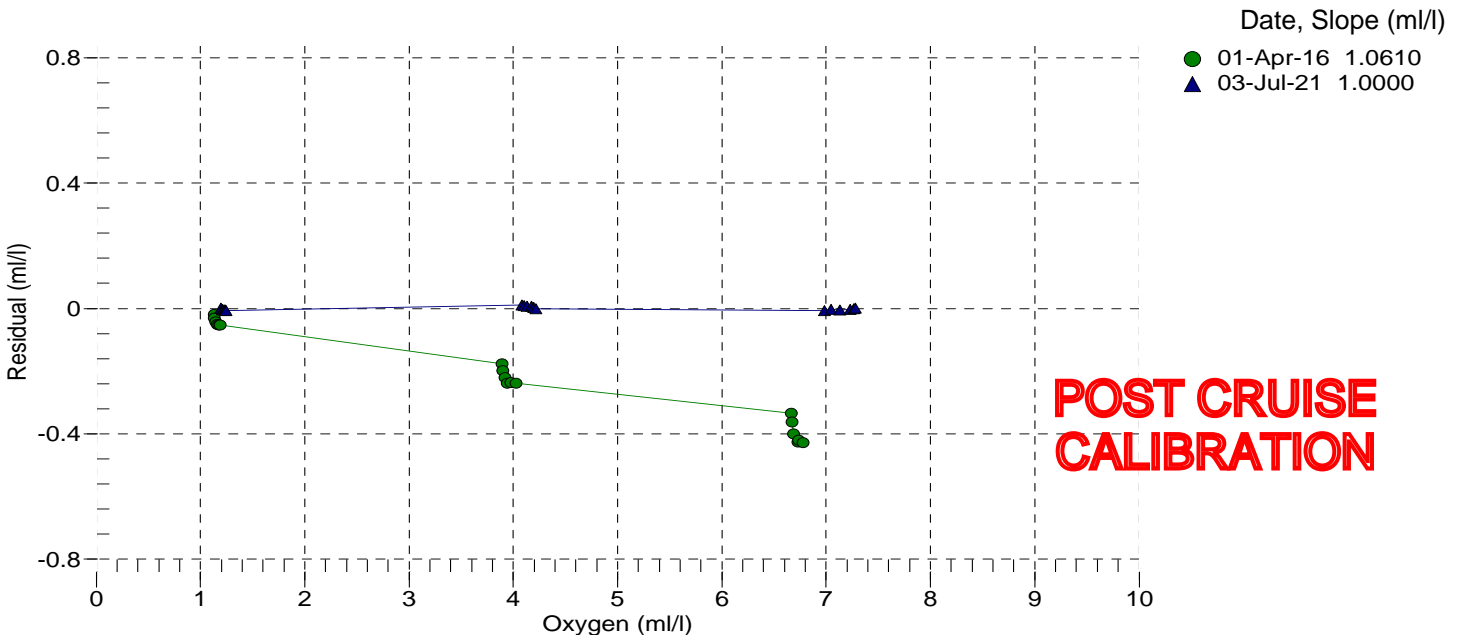
BATH OXYGEN (ml/l)	BATH TEMPERATURE (° C)	BATH SALINITY (PSU)	INSTRUMENT OUTPUT (volts)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
1.20	2.00	0.00	0.781	1.20	0.00
1.21	6.00	0.00	0.817	1.20	-0.00
1.21	12.00	0.00	0.871	1.21	-0.01
1.23	20.00	0.00	0.945	1.22	-0.01
1.24	26.00	0.00	1.003	1.23	-0.01
1.25	30.00	0.00	1.041	1.24	-0.01
4.09	2.00	0.00	1.418	4.10	0.01
4.11	6.00	0.00	1.541	4.11	0.01
4.13	12.00	0.00	1.728	4.14	0.01
4.17	20.00	0.00	1.979	4.18	0.01
4.19	26.00	0.00	2.167	4.20	0.00
4.22	30.00	0.00	2.299	4.22	-0.00
6.99	2.00	0.00	2.051	6.98	-0.01
7.05	6.00	0.00	2.269	7.04	-0.00
7.13	12.00	0.00	2.601	7.13	-0.00
7.23	20.00	0.00	3.047	7.23	-0.00
7.27	26.00	0.00	3.374	7.27	-0.00
7.28	30.00	0.00	3.595	7.28	0.00

V = instrument output (volts); T = temperature (°C); S = salinity (PSU); K = temperature (°K)

Oxsol(T,S) = oxygen saturation (ml/l); P = pressure (dbar)

Oxygen (ml/l) = Soc * (V + Voffset) * (1.0 + A * T + B * T² + C * T³) * Oxsol(T,S) * exp(E * P / K)

Residual (ml/l) = instrument oxygen - bath oxygen





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SENSOR SERIAL NUMBER: 1497
 CALIBRATION DATE: 08-Jul-21

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
 Soc = 0.4697
 Voffset = -0.4762
 Tau20 = 1.51

A = -5.7578e-003
 B = 2.2616e-004
 C = -2.9013e-006
 E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS
 D1 = 1.92634e-4
 D2 = -4.64803e-2
 H1 = -3.300000e-2
 H2 = 5.00000e+3
 H3 = 1.45000e+3

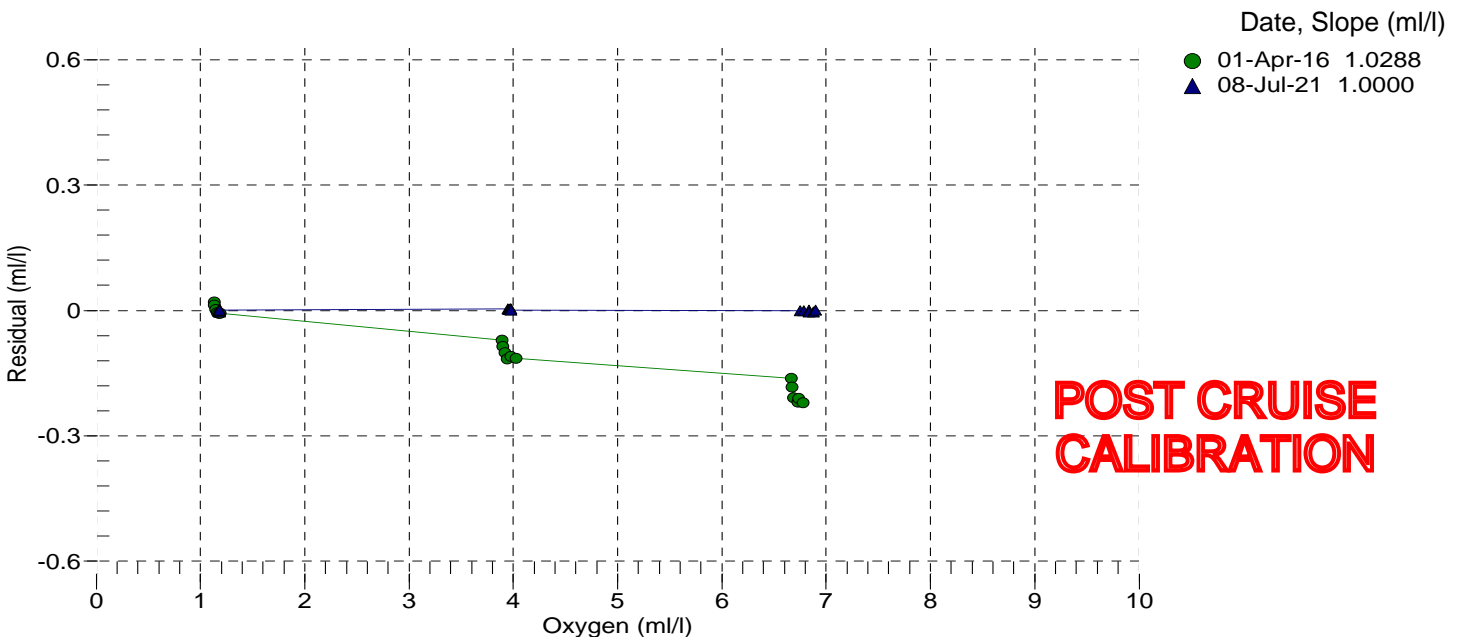
BATH OXYGEN (ml/l)	BATH TEMPERATURE (° C)	BATH SALINITY (PSU)	INSTRUMENT OUTPUT (volts)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
1.18	6.00	0.00	0.772	1.18	-0.00
1.18	12.00	0.00	0.823	1.18	-0.00
1.18	2.00	0.00	0.738	1.18	-0.00
1.18	30.00	0.00	0.977	1.18	0.00
1.18	20.00	0.00	0.891	1.18	-0.00
1.18	26.00	0.00	0.942	1.18	0.00
3.95	30.00	0.00	2.147	3.95	0.00
3.96	2.00	0.00	1.357	3.96	0.00
3.96	6.00	0.00	1.472	3.97	0.00
3.97	12.00	0.00	1.646	3.97	0.00
3.97	26.00	0.00	2.043	3.98	0.00
3.98	20.00	0.00	1.875	3.98	0.00
6.75	2.00	0.00	1.977	6.75	-0.00
6.78	6.00	0.00	2.180	6.78	-0.00
6.83	12.00	0.00	2.490	6.83	0.00
6.84	30.00	0.00	3.363	6.83	-0.00
6.88	20.00	0.00	2.892	6.87	-0.00
6.90	26.00	0.00	3.193	6.90	0.00

V = instrument output (volts); T = temperature (°C); S = salinity (PSU); K = temperature (°K)

Oxsol(T,S) = oxygen saturation (ml/l); P = pressure (dbar)

Oxygen (ml/l) = Soc * (V + Voffset) * (1.0 + A * T + B * T² + C * T³) * Oxsol(T,S) * exp(E * P / K)

Residual (ml/l) = instrument oxygen - bath oxygen





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SERVICE REPORT

Service Request
Date
Sales Order

1005513197
 20-AUG-2021
 201465178

CUSTOMER INFORMATION

Name: CICESE RESEARCH CENTER
 Account : 40280419
 JUAN LENERO
 LENERO@CICESE.MX
 52-646-1750565

PO Number:

Bill To Address

CARRETERA ENSENADA TIJUANA #3918
 ZONA PLAYITAS
 BAJA CALIFORNIA
 ENSENADA,22860,MX

Ship To Address

(BAJA FORWARDERS)
 8662 SIEMPRE VIVA ROAD
 SAN DIEGO,CA,92154,US

PRODUCT INFORMATION

Item: 03P.LEGACY
Item Description: (LEGACY) SBE 03Plus Temperature Sensor
Serial: 03P4519

Special Notes

Services Requested:
 CAL_3

No problems found.

Services Performed:
 Performed initial diagnostic evaluation.
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_3	SBE 3 Temperature sensor calibration; 11 points -1 to 31deg.C	1

Unbilled Items

Item	Item Description	Qty



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SERVICE REPORT

Service Request
Date
Sales Order

1005513197
 20-AUG-2021
 201465178

PRODUCT INFORMATION

Item: 04C.LEGACY
Item Description: (LEGACY) SBE 04C Conductivity Sensor
Serial: 043115

Special Notes

Services Requested:
 CAL_4C

No problems found.

Services Performed:
 Performed initial diagnostic evaluation.
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_4C	SBE 4C Conductivity Calibration for CTD sensors (includes 6-point 35 PSU post deployment cal., and C&P with 6-point 35 PSU re-cal, if necessary)	1

Unbilled Items

Item	Item Description	Qty



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20-AUG-2021

201465178

SERVICE REPORT

Service Request

Date

Sales Order

PRODUCT INFORMATION

Item: 43.LEGACY

Item Description: (LEGACY) SBE 43 Oxygen Sensor

Serial: 430846

Special Notes

Services Requested:

CAL_43

No problems found.

Services Performed:

Performed initial diagnostic evaluation.

Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_43	SBE 43 dissolved oxygen sensor calibration	1

Unbilled Items

Item	Item Description	Qty



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20-AUG-2021

201465178

SERVICE REPORT

Service Request

Date

Sales Order

PRODUCT INFORMATION

Item: 09P.LEGACY
Item Description: (LEGACY) SBE 09Plus CTD
Serial: 09P7308-0305

Special Notes

Services Requested:
 CONCERT9B

During final test, one 17086 cable was found to be intermittent and was replaced.

Services Performed:
 Performed initial diagnostic evaluation.
 Replaced the O-rings.
 Performed a hydrostatic pressure test.
 Performed pressure calibration.
 Replaced (1) TC interface cable.
 Performed complete system check and full diagnostic evaluation.

Item	Item Description	Qty
CONCERT9B	Confirm and recertify SBE 9plus. Includes opening main housing, replacing end cap "piston" o-rings and making minor internal repairs or modifications. Complete external inspection. Test all functions and input channel responses. Replace anodes if necessary. Cross-check pressure sensor (room temperature comparison to SBE reference Digiquartz giving new slope/offset coefficients). Hydrostatic pressure test and water bath check following closure. Cost of sensor calibrations, major repairs or modifications is extra.	1
17087	SBE 3 (Temp) or SBE 4 (Cond) to SBE 9plus/25 interface cable, RMG-3FS to RMG-3FS, 0.8 m (DN 30566)	1

Unbilled Items

Item	Item Description	Qty
30044	SEACAT ANODE, 1" DIA., G1050	3



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SERVICE REPORT

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Sales Order

1005513197
 20-AUG-2021
 201465178

PRODUCT INFORMATION

Item: 43.LEGACY
Item Description: (LEGACY) SBE 43 Oxygen Sensor
Serial: 431497

Special Notes

Services Requested:
 CAL_43

No problems found.

Services Performed:
 Performed initial diagnostic evaluation.
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_43	SBE 43 dissolved oxygen sensor calibration	1

Unbilled Items

Item	Item Description	Qty



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1005513197

20-AUG-2021

201465178

SERVICE REPORT

Service Request

Date

Sales Order

PRODUCT INFORMATION

Item: 03F.LEGACY

Item Description: (LEGACY) SBE 03F Temperature Sensor

Serial: 031482

Special Notes

Services Requested:

CAL_3

No problems found.

Services Performed:

Performed initial diagnostic evaluation.

Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_3	SBE 3 Temperature sensor calibration; 11 points -1 to 31deg.C	1

Unbilled Items

Item	Item Description	Qty



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SERVICE REPORT

Service Request
Date
Sales Order

1005513197
 20-AUG-2021
 201465178

PRODUCT INFORMATION

Item: 03F.LEGACY
Item Description: (LEGACY) SBE 03F Temperature Sensor
Serial: 031510

Special Notes

Services Requested:
 CAL_3

Problems Found:

The housing anode was found to have reach the end of its life. Replacement recommended.

Services Performed:

Performed initial diagnostic evaluation.
 Performed "POST" cruise calibration.
 Installed NEW anode.

Item	Item Description	Qty
23041	Zinc anode ring	1
CAL_3	SBE 3 Temperature sensor calibration; 11 points -1 to 31deg.C	1

Unbilled Items

Item	Item Description	Qty



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 201465178

PRODUCT INFORMATION

Item: 04C.LEGACY
Item Description: (LEGACY) SBE 04C Conductivity Sensor
Serial: 041194

Special Notes

Services Requested:
 CAL_4C

No problems found.

Services Performed:
 Performed initial diagnostic evaluation.
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_4C	SBE 4C Conductivity Calibration for CTD sensors (includes 6-point 35 PSU post deployment cal., and C&P with 6-point 35 PSU re-cal, if necessary)	1

Unbilled Items

Item	Item Description	Qty



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PRODUCT INFORMATION

Item: 04C.LEGACY

Item Description: (LEGACY) SBE 04C Conductivity Sensor

Serial: 041195

Special Notes

Services Requested:

CAL_4C

Problems Found:

The housing anode was found to have reach the end of its life. Replacement recommended.

Services Performed:

Performed initial diagnostic evaluation.

Performed "POST" cruise calibration.

Installed NEW anode.

Item	Item Description	Qty
23548	Zinc anode ring (sensors with tubing connector)	1
CAL_4C	SBE 4C Conductivity Calibration for CTD sensors (includes 6-point 35 PSU post deployment cal., and C&P with 6-point 35 PSU re-cal, if necessary)	1

Unbilled Items

Item	Item Description	Qty



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PRODUCT INFORMATION

Item: 05T.LEGACY

Item Description: (LEGACY) SBE 5T Submersible Pump

Serial: 050784

Special Notes

Services Requested:

BASERV/P

No problems found.

Services Performed:

Performed initial diagnostic evaluation.



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SERVICE REPORT

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Date

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Sales Order

201465178

PRODUCT INFORMATION

Item: 05T.LEGACY

Item Description: (LEGACY) SBE 5T Submersible Pump

Serial: 050783

Special Notes

Services Requested:

BASERV/P

No problems found.

Services Performed:

Performed initial diagnostic evaluation.