# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1815
CALIBRATION DATE: 19-Nov-15

SBE 16 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

```
g =  -4.05367978e+000
h =   4.84420845e-001
i =   8.68924691e-004
j =  -7.70312602e-006

CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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| BATH TEMP (° C) | BATH SAL (PSU) | BATH COND (S/m) | INSTRUMENT OUTPUT (kHz) | INSTRUMENT COND (S/m) | RESIDUAL (S/m) |
|---|---|---|---|---|---|
| 22.0000 | 0.0000 | 0.00000 | 2.88550 | 0.00000 | 0.00000 |
| 1.0000 | 34.6412 | 2.96242 | 8.28120 | 2.96242 | -0.00000 |
| 4.5000 | 34.6212 | 3.26813 | 8.64656 | 3.26813 | 0.00000 |
| 15.0000 | 34.5784 | 4.24551 | 9.72148 | 4.24550 | -0.00001 |
| 18.5000 | 34.5696 | 4.58916 | 10.07175 | 4.58918 | 0.00002 |
| 24.0000 | 34.5600 | 5.14470 | 10.61304 | 5.14468 | -0.00002 |
| 29.0000 | 34.5551 | 5.66433 | 11.09506 | 5.66434 | 0.00001 |
| 32.5001 | 34.5527 | 6.03521 | 11.42658 | 6.03543 | 0.00021 |

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars); $\delta$ = CTcor; $\varepsilon$ = CPcor;

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

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