# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3115
CALIBRATION DATE: 12-Mar-15

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

COEFFICIENTS:

```
g =  -4.02935566e+000
h =   4.80184090e-001
i =   1.39778425e-003
j =  -3.24702332e-005

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

| BATH TEMP (ITS-90) | BATH SAL (PSU) | BATH COND (Siemens/m) | INST FREQ (kHz) | INST COND (Siemens/m) | RESIDUAL (Siemens/m) |
|---|---|---|---|---|---|
| 22.0000 | 0.0000 | 0.00000 | 2.88549 | 0.00000 | 0.00000 |
| 1.0000 | 34.7517 | 2.97097 | 8.30167 | 2.97092 | -0.00004 |
| 4.5000 | 34.7319 | 3.27755 | 8.66804 | 3.27758 | 0.00003 |
| 14.9999 | 34.6895 | 4.25769 | 9.74580 | 4.25777 | 0.00008 |
| 18.5000 | 34.6803 | 4.60227 | 10.09687 | 4.60224 | -0.00003 |
| 23.9999 | 34.6700 | 5.15925 | 10.63962 | 5.15917 | -0.00009 |
| 29.0000 | 34.6638 | 5.68015 | 11.12311 | 5.68019 | 0.00005 |
| 32.5000 | 34.6597 | 6.05176 | 11.45547 | 6.05198 | 0.00022 |

f = INST FREQ / 1000.0

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

t = temperatur e[°C)]; p = pressure[decibars]; $\delta$ = CTcor; $\varepsilon$ = CPcor;

Residual = instrument conductivity - bath conductivity