# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1866
CALIBRATION DATE: 03-Mar-15

SBE 37 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

```
g = -9.722454e-001
h =  1.345188e-001
i = -7.071601e-005
j =  2.803275e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  2.9139e-006
```

| BATH TEMP (ITS-90) | BATH SAL (PSU) | BATH COND (Siemens/m) | INST FREQ (Hz) | INST COND (Siemens/m) | RESIDUAL (Siemens/m) |
|---|---|---|---|---|---|
| 22.0000 | 0.0000 | 0.00000 | 2688.20 | 0.00000 | 0.00000 |
| 1.0000 | 34.6488 | 2.96301 | 5400.00 | 2.96303 | 0.00002 |
| 4.5000 | 34.6290 | 3.26879 | 5604.83 | 3.26877 | -0.00002 |
| 15.0000 | 34.5862 | 4.24636 | 6213.68 | 4.24635 | -0.00001 |
| 18.5000 | 34.5770 | 4.59004 | 6413.69 | 4.59005 | 0.00001 |
| 24.0000 | 34.5670 | 5.14562 | 6724.09 | 5.14564 | 0.00001 |
| 29.0000 | 34.5615 | 5.66526 | 7001.57 | 5.66525 | -0.00001 |
| 32.5000 | 34.5319 | 6.03198 | 7192.83 | 6.03608 | 0.00410 |

f = INST FREQ * sqrt(1.0 + WBOTC * t) / 1000.0

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

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

Residual = instrument conductivity - bath conductivity