# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2327
CALIBRATION DATE: 09-Dec-11

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

COEFFICIENTS:

g = −9.242698e−001
h =  1.279386e−001
i = −9.147540e−005
j =  2.834526e−005

CPcor = −9.5700e−008
CTcor =  3.2500e−006
WBOTC =  4.0610e−006

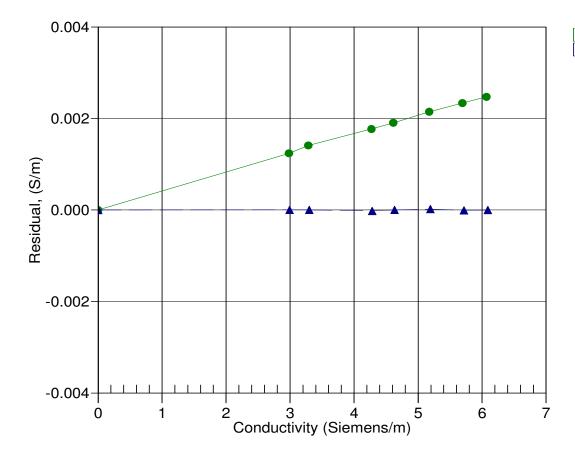| BATH TEMP (ITS-90) | BATH SAL (PSU) | BATH COND (Siemens/m) | INST FREQ (Hz) | INST COND (Siemens/m) | RESIDUAL (Siemens/m) |
|---|---|---|---|---|---|
| 22.0000 | 0.0000 | 0.00000 | 2688.12 | 0.00000 | 0.00000 |
| 1.0000 | 34.9860 | 2.98908 | 5522.86 | 2.98909 | 0.00000 |
| 4.4999 | 34.9656 | 3.29741 | 5735.21 | 3.29741 | 0.00000 |
| 15.0000 | 34.9212 | 4.28312 | 6365.68 | 4.28310 | −0.00002 |
| 18.5000 | 34.9111 | 4.62958 | 6572.58 | 4.62959 | 0.00000 |
| 24.0000 | 34.8997 | 5.18966 | 6893.51 | 5.18968 | 0.00002 |
| 29.0000 | 34.8919 | 5.71330 | 7180.16 | 5.71330 | −0.00001 |
| 32.5000 | 34.8848 | 6.08658 | 7377.47 | 6.08658 | −0.00000 |

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

Conductivity = $(g + hf^2 + if^3 + jf^4) / (1 + \delta t + \epsilon p)$ Siemens/meter

t = temperature[°C)]; p = pressure[decibars]; $\delta$ = CTcor; $\epsilon$ = CPcor;

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

● 15-Dec-09 0.9995877
▲ 09-Dec-11 1.0000000