SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2026
CALIBRATION DATE: 19-Jan-11

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

COEFFICIENTS:

g = −9.254532e−001
h = 1.438514e−001
i = 3.271429e−005
j = 3.155906e−005

CPcor = −9.5700e−008
CTcor = 3.2500e−006
WBOTC = −3.7810e−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	2534.01	0.00000	0.00000
1.0000	34.7907	2.97399	5188.14	2.97398	−0.00001
4.5000	34.7706	3.28084	5387.12	3.28085	0.00001
15.0000	34.7270	4.26182	5977.84	4.26181	−0.00001
18.5000	34.7176	4.60669	6171.73	4.60670	0.00001
23.9999	34.7076	5.16423	6472.49	5.16423	−0.00000
29.0000	34.7015	5.68563	6741.20	5.68563	−0.00000
32.4999	34.6968	6.05749	6926.24	6.05749	0.00000

$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

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

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

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

Legend:
- ● 02-Aug-07 0.9999413
- ▲ 19-Jan-11 1.0000000