Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0047
CALIBRATION DATE: 17-Dec-11

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

COEFFICIENTS:

g = −1.010691e+000
h = 1.473472e−001
i = −1.417661e−004
j = 3.387959e−005

CPcor = −9.5700e−008
CTcor = 3.2500e−006
WBOTC = 2.0353e−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	2620.19	0.00000	0.00000
1.0000	34.9562	2.98678	5205.43	2.98678	−0.00000
4.5000	34.9356	3.29487	5401.52	3.29487	0.00000
15.0000	34.8915	4.27986	5984.73	4.27986	0.00000
18.5000	34.8816	4.62609	6176.38	4.62610	0.00001
24.0000	34.8704	5.18578	6473.90	5.18578	−0.00000
29.0000	34.8630	5.70910	6739.90	5.70910	−0.00001
32.5000	34.8567	6.08224	6923.13	6.08224	0.00001

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]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

Legend:
- 11-Nov-09 0.9998333
- 17-Dec-11 1.0000000