SEA-BIRD ELECTRONICS, INC.

13431 NE 20th Street, Bellevue, Washington, 98005-2010 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1807
CALIBRATION DATE: 19-Jan-11

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

COEFFICIENTS:

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g = -9.903919e-001
h =  1.364751e-001
i = -1.681150e-004
j =  3.545744e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  1.2056e-006
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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	2695.77	0.00000	0.00000
1.0000	34.7907	2.97399	5387.22	2.97399	0.00000
4.5000	34.7706	3.28084	5590.92	3.28084	-0.00000
15.0000	34.7270	4.26182	6196.42	4.26181	-0.00000
18.5000	34.7176	4.60669	6395.35	4.60669	0.00000
23.9999	34.7076	5.16423	6704.10	5.16423	-0.00000
29.0000	34.7015	5.68563	6980.11	5.68563	0.00001
32.4999	34.6968	6.05749	7170.23	6.05749	-0.00000

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

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

t = temperature[°C)]; p = pressure[decibars]; δ = CTcor; ε = CPcor;

Residual = instrument conductivity - bath conductivity