SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

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

SENSOR SERIAL NUMBER: 0047
CALIBRATION DATE: 28-Jan-07

90340 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

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g = -1.010490e+000
h =  1.473580e-001
i = -1.486247e-004
j =  3.252169e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  2.0353e-006
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BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2620.08	0.00000	0.00000
1.0000	34.8267	2.97677	5199.88	2.97677	0.00000
4.5000	34.8066	3.28390	5395.73	3.28389	-0.00001
15.0000	34.7635	4.26582	5978.29	4.26582	0.00000
18.5000	34.7541	4.61101	6169.78	4.61101	0.00001
24.0000	34.7436	5.16901	6467.05	5.16901	0.00000
29.0000	34.7373	5.69084	6732.88	5.69082	-0.00002
32.5000	34.7328	6.06308	6916.11	6.06309	0.00001

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