Sea-Bird Electronics, Inc.

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

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 3766 CALIBRATION DATE: 16-Dec-11

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

COEFFICIENTS:

g = -1.047916e+000	CPcor = -9.5700e-008
h = 1.347877e - 001	CTcor = 3.2500e-006
i = -1.389788e - 004	WBOTC = $-1.0064e-005$
j = 2.958164e - 005	

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	2790.23	0.0000	0.00000
1.0000	34.9723	2.98802	5469.49	2.98798	-0.00004
4.4999	34.9522	3.29627	5673.88	3.29632	0.00006
14.9999	34.9087	4.28174	6281.91	4.28173	-0.00000
18.5000	34.8988	4.62813	6481.84	4.62811	-0.00002
24.0000	34.8877	5.18807	6792.31	5.18808	0.00001
29.0000	34.8795	5.71150	7069.89	5.71149	-0.00001
32.5000	34.8727	6.08471	7261.16	6.08472	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

 $t = temperature[^{\circ}C)$; p = pressure[decibars]; $\delta = CTcor$; $\varepsilon = CPcor$;

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

