

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: 2003
CALIBRATION DATE: 21-Apr-12

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

COEFFICIENTS:

g = -9.642577e-001
h = 1.343543e-001
i = -3.231913e-004
j = 4.598242e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.6935e-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	2684.09	0.00000	0.00000
1.0000	34.9694	2.98780	5431.64	2.98782	0.00002
4.4999	34.9492	3.29601	5638.57	3.29600	-0.00001
15.0000	34.9062	4.28147	6253.40	4.28144	-0.00004
18.5000	34.8972	4.62794	6455.30	4.62795	0.00001
24.0000	34.8874	5.18803	6768.52	5.18808	0.00005
29.0000	34.8822	5.71189	7048.37	5.71187	-0.00003

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

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

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

$$\text{Residual} = \text{instrument conductivity} - \text{bath conductivity}$$

Date, Slope Correction

