

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: 0827
CALIBRATION DATE: 06-Nov-08

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

COEFFICIENTS:

g = -1.038423e+000
h = 1.591764e-001
i = -1.715389e-004
j = 4.059352e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.7313e-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	2556.32	0.00000	0.00000
1.0000	34.7449	2.97044	5016.02	2.97046	0.00001
4.4999	34.7249	3.27694	5203.75	3.27693	-0.00001
15.0000	34.6812	4.25679	5762.49	4.25678	-0.00001
18.4999	34.6722	4.60130	5946.27	4.60130	-0.00001
23.9999	34.6621	5.15821	6231.68	5.15822	0.00001
28.9999	34.6563	5.67904	6487.00	5.67906	0.00002
32.5001	34.6539	6.05088	6663.13	6.05086	-0.00002

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

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

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

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

Date, Slope Correction

