

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: 3936
CALIBRATION DATE: 31-Oct-08

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

COEFFICIENTS:

g = -1.033865e+000	CPcor = -9.5700e-008
h = 1.445484e-001	CTcor = 3.2500e-006
i = -7.535293e-004	WBOTC = 7.1795e-006
j = 7.308789e-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	2688.14	0.00000	0.00000
0.9999	34.8955	2.98208	5306.67	2.98210	0.00002
4.5000	34.8755	3.28976	5506.01	3.28976	0.00001
15.0000	34.8322	4.27336	6098.86	4.27331	-0.00005
18.5000	34.8227	4.61913	6293.70	4.61909	-0.00003
24.0000	34.8122	5.17808	6596.16	5.17811	0.00003
29.0000	34.8059	5.70081	6866.54	5.70090	0.00010
32.5000	34.8012	6.07365	7052.70	6.07358	-0.00007

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

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

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

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

