

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3722
CALIBRATION DATE: 31-May-07

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

COEFFICIENTS:

g = -1.042762e+000
h = 1.260490e-001
i = -1.863548e-004
j = 2.915057e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.4820e-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	2879.33	0.00000	0.00000
1.0001	34.6672	2.96444	5641.09	2.96444	0.00000
4.5000	34.6473	3.27035	5851.65	3.27035	-0.00000
15.0001	34.6042	4.24835	6478.24	4.24835	0.00000
18.5001	34.5950	4.59218	6684.25	4.59216	-0.00002
24.0000	34.5849	5.14800	7004.19	5.14802	0.00002
29.0001	34.5793	5.66786	7290.32	5.66786	-0.00001
32.5000	34.5759	6.03879	7487.60	6.03879	-0.00000

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

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

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

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

