

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1246
 CALIBRATION DATE: 17-Nov-06

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

COEFFICIENTS:

g = -1.031202e+000	CPcor = -9.5700e-008
h = 1.516868e-001	CTcor = 3.2500e-006
i = -1.073572e-004	WBOTC = -2.7464e-005
j = 3.406134e-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	2608.55	0.00000	0.00000
1.0000	34.7225	2.96871	5129.37	2.96871	0.00000
4.5000	34.7014	3.27495	5321.55	3.27496	0.00001
14.9999	34.6566	4.25408	5893.47	4.25405	-0.00003
18.5000	34.6463	4.59824	6081.54	4.59824	-0.00000
24.0000	34.6348	5.15460	6373.59	5.15462	0.00002
29.0000	34.6278	5.67491	6634.83	5.67493	0.00002
32.5000	34.6245	6.04632	6815.02	6.04630	-0.00002

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

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

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

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

