

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3532
CALIBRATION DATE: 21-Jul-07

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

COEFFICIENTS:

g = -1.001884e+000
h = 1.337759e-001
i = -1.259770e-004
j = 3.147329e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -1.4939e-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	2738.22	0.00000	0.00000
1.0000	34.7314	2.96940	5443.53	2.96941	0.00001
4.5000	34.7117	3.27583	5648.84	3.27582	-0.00000
15.0000	34.6689	4.25544	6259.35	4.25541	-0.00003
18.5000	34.6598	4.59984	6460.02	4.59985	0.00000
24.0000	34.6497	5.15658	6771.50	5.15660	0.00002
29.0000	34.6436	5.67721	7049.98	5.67723	0.00002
32.5000	34.6382	6.04844	7241.79	6.04842	-0.00002

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

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

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

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

