

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2323
CALIBRATION DATE: 05-Jan-11

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

COEFFICIENTS:

g = -9.757078e-001
h = 1.482464e-001
i = -4.884470e-005
j = 3.080708e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 6.7914e-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	2564.61	0.00000	0.00000
1.0000	34.9315	2.98487	5158.88	2.98486	-0.00001
4.5000	34.9114	3.29281	5354.69	3.29282	0.00001
14.9999	34.8674	4.27721	5936.53	4.27722	0.00001
18.5000	34.8579	4.62329	6127.65	4.62328	-0.00001
24.0000	34.8468	5.18266	6424.24	5.18267	0.00001
29.0000	34.8401	5.70578	6689.33	5.70575	-0.00002
32.5000	34.8354	6.07894	6872.02	6.07896	0.00001

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

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

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

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

