

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3531
CALIBRATION DATE: 27-Jul-07

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

COEFFICIENTS:

g = -9.863552e-001
h = 1.331764e-001
i = -1.625243e-004
j = 3.239098e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -4.6806e-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	2723.68	0.00000	0.00000
0.9999	34.6999	2.96695	5446.83	2.96693	-0.00002
4.5000	34.6794	3.27308	5653.03	3.27311	0.00003
15.0000	34.6377	4.25202	6266.06	4.25200	-0.00002
18.5000	34.6286	4.59615	6467.50	4.59616	0.00001
24.0000	34.6191	5.15252	6780.15	5.15252	-0.00001
29.0000	34.6139	5.67289	7059.70	5.67290	0.00001
32.5000	34.6106	6.04416	7252.35	6.04416	-0.00000

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

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

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

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

