

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3423
CALIBRATION DATE: 10-Jun-09

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

COEFFICIENTS:

g = -9.940475e-001

CPcor = -9.5700e-008

h = 1.338612e-001

CTcor = 3.2500e-006

i = -7.452692e-005

WBOTC = -7.1543e-006

j = 2.749386e-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	2725.26	0.00000	0.00000
1.0000	34.5863	2.95817	5425.50	2.95818	0.00001
4.4999	34.5670	3.26350	5630.28	3.26350	-0.00000
15.0000	34.5248	4.23962	6239.18	4.23960	-0.00002
18.5000	34.5150	4.58269	6439.23	4.58269	-0.00000
24.0000	34.5032	5.13717	6749.72	5.13719	0.00002
29.0000	34.4952	5.65561	7027.28	5.65563	0.00002
32.5000	34.4888	6.02530	7218.47	6.02529	-0.00002

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

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

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

Residual = instrument conductivity - bath conductivity

