

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1807
CALIBRATION DATE: 04-Feb-14

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

COEFFICIENTS:

g = -9.919964e-001
h = 1.365550e-001
i = -1.717935e-004
j = 3.421942e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 1.2056e-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	2697.35	0.00000	0.00000
1.0000	34.6713	2.96475	5381.59	2.96476	0.00001
4.5000	34.6514	3.27070	5584.92	3.27068	-0.00002
15.0000	34.6087	4.24883	6189.53	4.24883	0.00000
18.5000	34.5997	4.59273	6388.20	4.59274	0.00001
24.0000	34.5899	5.14866	6696.55	5.14865	-0.00001
29.0000	34.5845	5.66861	6972.26	5.66861	0.00000

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

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

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

Residual = instrument conductivity - bath conductivity

