

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3979
CALIBRATION DATE: 04-Mar-15

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

COEFFICIENTS:

g = -1.019798e+000
h = 1.479889e-001
i = -1.244720e-004
j = 3.470005e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -9.2326e-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	2626.12	0.00000	0.00000
1.0000	34.6669	2.96441	5183.69	2.96442	0.00001
4.5000	34.6471	3.27033	5378.26	3.27032	-0.00001
15.0000	34.6042	4.24834	5957.10	4.24833	-0.00001
18.5000	34.5950	4.59217	6147.40	4.59217	0.00000
24.0000	34.5849	5.14800	6442.86	5.14802	0.00002
29.0000	34.5794	5.66787	6707.11	5.66786	-0.00001
32.5000	34.5768	6.03893	6889.24	6.03868	-0.00025

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

Conductivity = $(g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$ Siemens / meter

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

