

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0043
CALIBRATION DATE: 27-Jan-12

SBE 49 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.005121e+000
h = 1.392630e-001
i = -1.342471e-004
j = 3.139561e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-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	2687.82	0.0000	0.00000
1.0000	34.8385	2.97768	5344.40	2.9777	0.00002
4.4999	34.8177	3.28483	5545.82	3.2848	-0.00001
15.0000	34.7724	4.26680	6144.87	4.2668	-0.00002
18.5000	34.7627	4.61203	6341.76	4.6120	-0.00002
24.0000	34.7516	5.17006	6647.40	5.1701	0.00003
29.0000	34.7450	5.69195	6920.68	5.6920	0.00003
32.5000	34.7406	6.06428	7109.00	6.0643	-0.00003

f = INST FREQ / 1000.0

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

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

Residual = instrument conductivity - bath conductivity

