

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4139
CALIBRATION DATE: 02-Jul-10

SBE16plus CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.999267e-001
h = 1.370839e-001
i = -1.998194e-004
j = 3.185145e-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	2703.82	0.0000	0.00000
0.9999	34.6613	2.96397	5380.33	2.9639	-0.00004
4.5000	34.6414	3.26984	5583.51	3.2699	0.00002
15.0000	34.5987	4.24773	6187.67	4.2478	0.00005
18.5000	34.5894	4.59151	6386.22	4.5915	0.00003
24.0000	34.5788	5.14719	6694.39	5.1471	-0.00009
32.5000	34.5601	6.03635	7159.44	6.0364	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

