

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 6405
CALIBRATION DATE: 02-Dec-10

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

COEFFICIENTS:

g = -1.036625e+000

CPcor = -9.5700e-008

h = 1.549016e-001

CTcor = 3.2500e-006

i = -2.639391e-004

j = 4.114626e-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	2590.33	0.0000	0.00000
1.0000	34.6559	2.96356	5086.30	2.9636	-0.00000
4.5000	34.6360	3.26938	5276.65	3.2694	-0.00000
15.0000	34.5927	4.24708	5843.10	4.2471	0.00002
18.5000	34.5835	4.59081	6029.37	4.5908	-0.00000
24.0000	34.5732	5.14645	6318.64	5.1464	0.00000
29.0000	34.5673	5.66611	6577.37	5.6661	-0.00003
32.5000	34.5632	6.03683	6755.77	6.0368	0.00002

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

