

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 6132
CALIBRATION DATE: 10-Dec-10

SBE19plus CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.905290e-001 CPcor = -9.5700e-008
h = 1.202211e-001 CTcor = 3.2500e-006
i = -3.486558e-004
j = 3.909120e-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	2878.55	0.0000	0.00000
1.0000	34.6711	2.96473	5752.91	2.9647	0.00000
4.5000	34.6509	3.27065	5970.67	3.2706	-0.00001
15.0000	34.6073	4.24868	6618.03	4.2487	0.00000
18.5000	34.5977	4.59249	6830.69	4.5925	0.00001
24.0000	34.5870	5.14827	7160.72	5.1483	0.00001
29.0000	34.5808	5.66807	7455.71	5.6680	-0.00003
32.5000	34.5769	6.03895	7659.03	6.0390	0.00002

f = INST FREQ / 1000.0

Conductivity = (g + hf² + if³ + jf⁴) / (1 + δt + εp) Siemens/meter

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

Residual = instrument conductivity - bath conductivity

