

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0497
CALIBRATION DATE: 03-Nov-09

SBE4 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

GHIJ COEFFICIENTS

g = -4.27613811e+000
h = 4.61481376e-001
i = -3.95662256e-004
j = 3.67151088e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.12904033e-006
b = 4.60001736e-001
c = -4.27037476e+000
d = -7.78156345e-005
m = 5.0
CPcor = -9.5700e-008 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	3.04688	0.00000	0.00000
-0.9999	34.8501	2.80705	8.37884	2.80704	-0.00001
1.0001	34.8501	2.97859	8.59773	2.97860	0.00002
15.0001	34.8516	4.27549	10.09816	4.27547	-0.00003
18.5002	34.8514	4.62254	10.46272	4.62256	0.00001
29.0002	34.8502	5.70727	11.52647	5.70729	0.00002
32.5001	34.8448	6.08041	11.86982	6.08039	-0.00002

Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

Conductivity = $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$ Siemens/meter

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

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction

