

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0655
CALIBRATION DATE: 01-Apr-11

SBE16 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

GHIJ COEFFICIENTS

g = -3.97844378e+000
h = 4.74930641e-001
i = 8.91646563e-004
j = -1.12537273e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.81570977e-003
b = 4.71426617e-001
c = -3.97101921e+000
d = -9.05930977e-005
m = 2.6
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)
22.0000	0.0000	0.00000	2.88676	0.00000	0.00000
0.9999	34.6373	2.96211	8.35264	2.96206	-0.00005
4.5000	34.6170	3.26777	8.72213	3.26782	0.00005
15.0000	34.5737	4.24499	9.80869	4.24500	0.00002
18.4999	34.5643	4.58852	10.16269	4.58856	0.00004
24.0000	34.5534	5.14382	10.70966	5.14378	-0.00004
29.0000	34.5456	5.66295	11.19650	5.66289	-0.00006
32.5000	34.5387	6.03303	11.53090	6.03309	0.00005

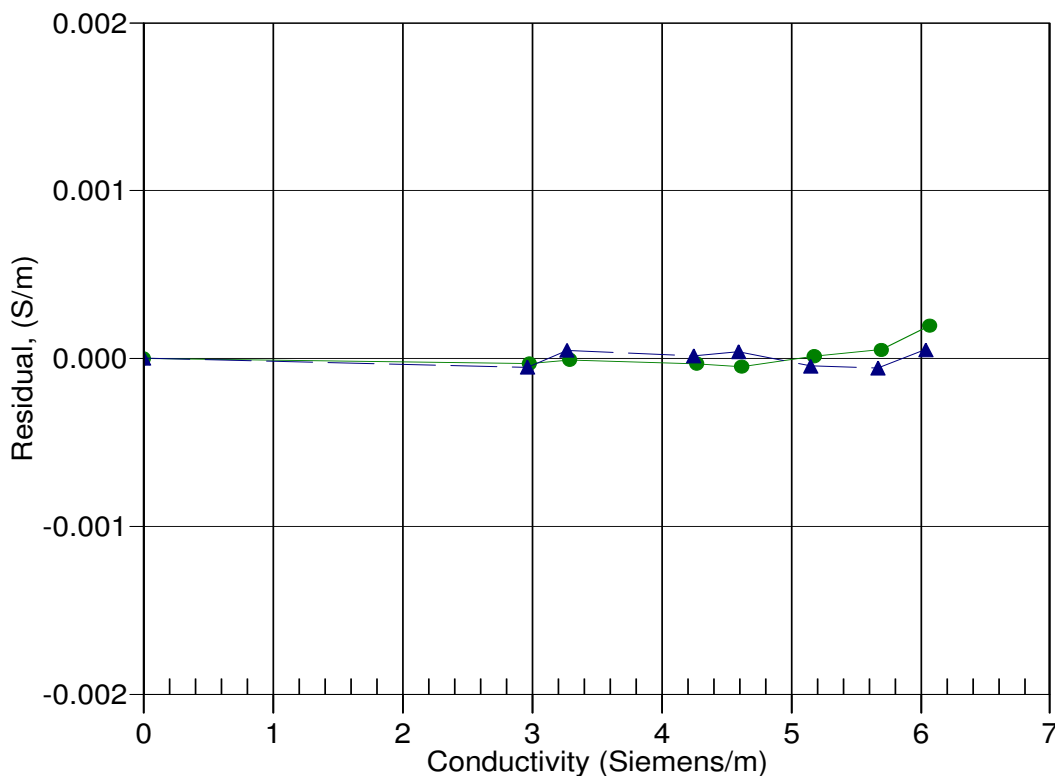
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



28-Nov-07 0.9999931
01-Apr-11 1.0000000