

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0653
CALIBRATION DATE: 01-Apr-11

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

GHIJ COEFFICIENTS

g = -3.95519817e+000
h = 4.72409980e-001
i = 7.35743672e-004
j = -4.38584523e-006
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.28587096e-003
b = 4.71158825e-001
c = -3.95060383e+000
d = -8.75641191e-005
m = 2.8
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	2.88714	0.00000	0.00000
0.9999	34.6373	2.96211	8.37873	2.96205	-0.00006
4.5000	34.6170	3.26777	8.74973	3.26781	0.00005
15.0000	34.5737	4.24499	9.84068	4.24504	0.00005
18.4999	34.5643	4.58852	10.19598	4.58853	0.00001
24.0000	34.5534	5.14382	10.74505	5.14377	-0.00006
29.0000	34.5456	5.66295	11.23372	5.66291	-0.00004
32.5000	34.5387	6.03303	11.56931	6.03308	0.00005

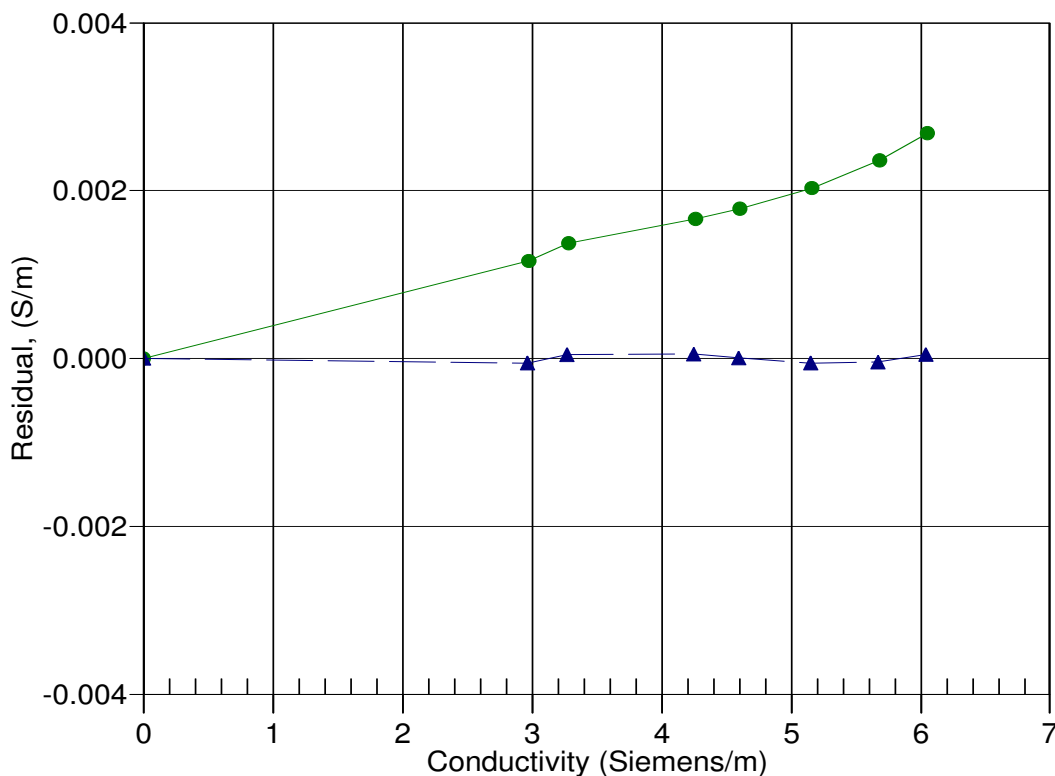
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



12-Dec-09 0.9995899
01-Apr-11 1.0000000