

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0658
CALIBRATION DATE: 17-Dec-10

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

GHIJ COEFFICIENTS

g = -4.06937674e+000
h = 4.87109161e-001
i = 5.08033877e-004
j = 7.27932093e-006
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.69686821e-004
b = 4.86961788e-001
c = -4.06611118e+000
d = -8.02153396e-005
m = 3.1
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	2.88584	0.00000	0.00000
1.0000	34.7516	2.97096	8.28743	2.97094	-0.00002
4.4999	34.7310	3.27746	8.65330	3.27747	0.00001
15.0000	34.6857	4.25728	9.72951	4.25731	0.00002
18.4999	34.6762	4.60178	10.08010	4.60178	0.00000
24.0000	34.6652	5.15863	10.62188	5.15859	-0.00004
29.0000	34.6581	5.67932	11.10417	5.67933	0.00002
32.4999	34.6529	6.05070	11.43541	6.05070	0.00000

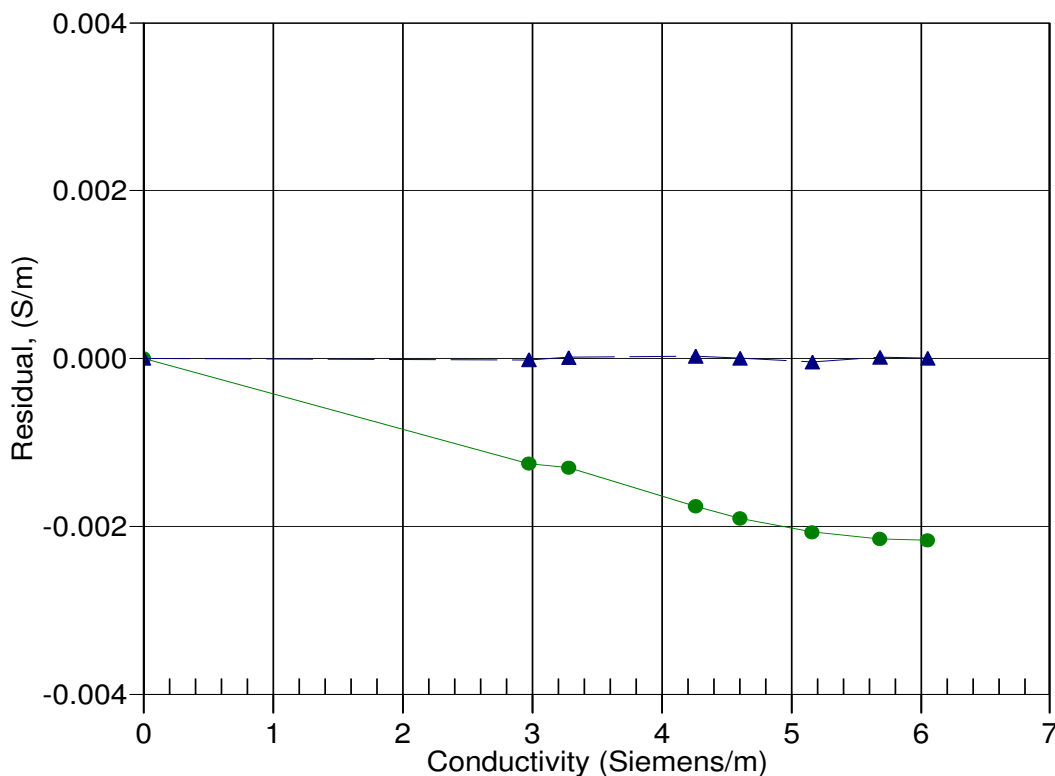
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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 1.0003905
17-Dec-10 1.0000000