

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0436
CALIBRATION DATE: 18-Mar-11

SBE19 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

GHIJ COEFFICIENTS

g = -3.80360552e+000
h = 4.54150863e-001
i = 9.94086221e-004
j = -2.78513680e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.57559959e-002
b = 4.16184595e-001
c = -3.79515803e+000
d = -1.35099722e-004
m = 2.1
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	2.88563	0.00000	0.00000
1.0000	34.6523	2.96328	8.52018	2.96327	-0.00001
4.5001	34.6314	3.26900	8.89939	3.26902	0.00002
15.0000	34.5874	4.24649	10.01506	4.24647	-0.00002
18.5000	34.5780	4.59016	10.37868	4.59016	0.00000
24.0000	34.5681	5.14577	10.94080	5.14576	-0.00001
29.0001	34.5608	5.66517	11.44127	5.66523	0.00005
32.5000	34.5562	6.03574	11.78518	6.03571	-0.00003

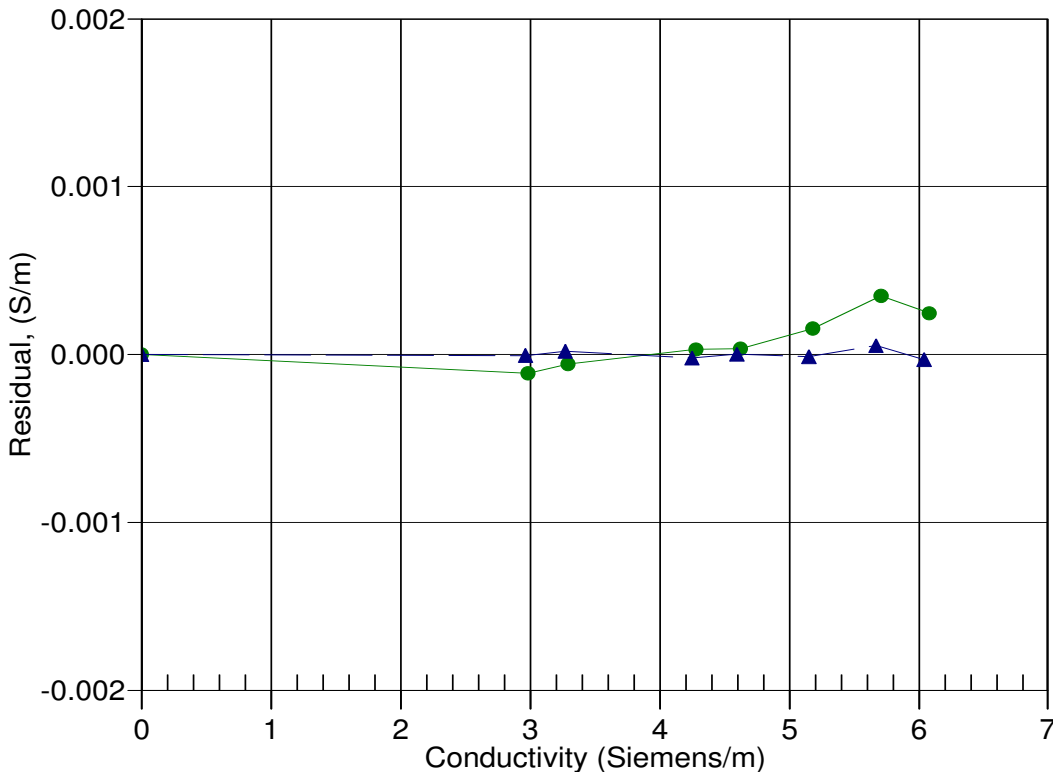
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



● 11-Dec-09 0.9999740
▲ 18-Mar-11 1.0000000