

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2039
CALIBRATION DATE: 21-Jul-09

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

GHIJ COEFFICIENTS

g = -1.03761875e+001
h = 1.27181012e+000
i = -2.38471039e-004
j = 7.20912099e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.22445844e-005
b = 1.27128103e+000
c = -1.03753069e+001
d = -8.52866694e-005
m = 4.2
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	2.85643	0.00000	0.00000
-1.0000	34.6575	2.79297	5.48622	2.79296	-0.00001
1.0000	34.6576	2.96369	5.60702	2.96370	0.00001
15.0000	34.6587	4.25432	6.44697	4.25432	-0.00000
18.5000	34.6586	4.59970	6.65369	4.59972	0.00002
29.0000	34.6585	5.67937	7.26171	5.67933	-0.00004
32.5000	34.6539	6.05087	7.45942	6.05089	0.00003

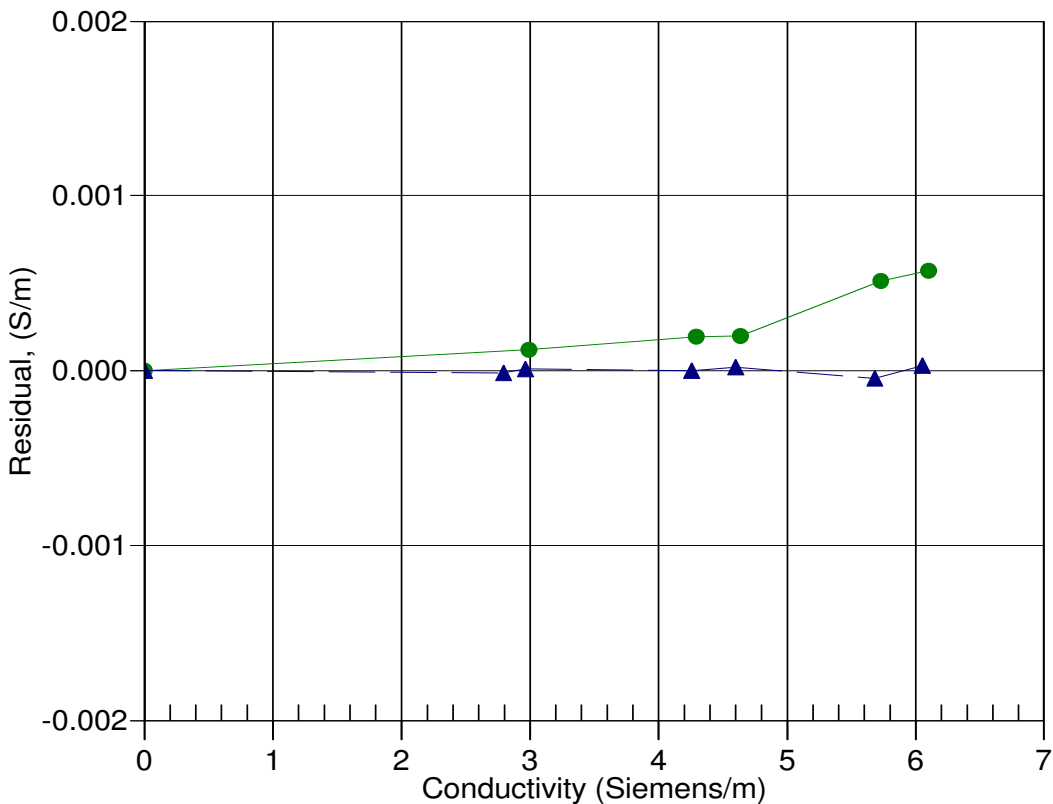
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



■ 10-Jun-08 0.9999284
▲ 21-Jul-09 1.0000000