

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0074
CALIBRATION DATE: 09-Apr-09

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

GHIJ COEFFICIENTS

g = -9.84719893e+000
h = 1.10299802e+000
i = -1.93626732e-003
j = 2.20962108e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 5.30235394e-006
b = 1.09719421e+000
c = -9.82888798e+000
d = -8.71501121e-005
m = 5.2
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)
22.0000	0.0000	0.00000	2.99310	0.00000	0.00000
0.9999	34.7167	2.96825	5.99650	2.96825	0.00000
4.5000	34.6967	3.27455	6.22402	3.27455	-0.00000
15.0000	34.6533	4.25373	6.90053	4.25373	0.00000
18.5000	34.6443	4.59801	7.12287	4.59800	-0.00000
24.0000	34.6341	5.15451	7.46801	5.15451	-0.00001
29.0000	34.6286	5.67503	7.77666	5.67504	0.00002
32.5000	34.6258	6.04652	7.98945	6.04651	-0.00001

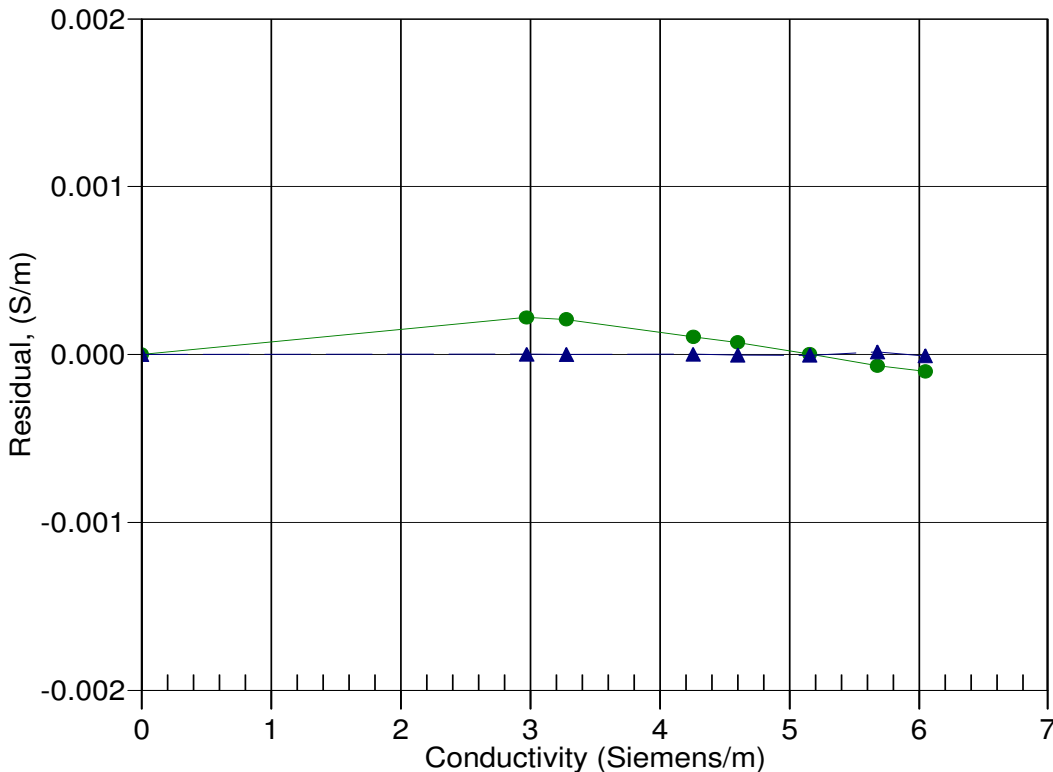
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



● 24-Sep-07 0.9999926
▲ 09-Apr-09 1.0000000