

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0073  
CALIBRATION DATE: 04-Nov-09

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

## GHIJ COEFFICIENTS

g = -1.00905264e+001  
h = 1.13007627e+000  
i = -1.69026279e-003  
j = 2.18554786e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 1.21683455e-005  
b = 1.12518042e+000  
c = -1.00751020e+001  
d = -8.52633282e-005  
m = 4.9  
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	2.99226	0.00000	0.00000
1.0000	34.9455	2.98595	5.95184	2.98596	0.00001
4.5000	34.9245	3.29392	6.17643	3.29393	0.00000
15.0000	34.8805	4.27865	6.84452	4.27863	-0.00002
18.5000	34.8707	4.62481	7.06413	4.62480	-0.00000
24.0000	34.8600	5.18441	7.40509	5.18443	0.00003
29.0000	34.8541	5.70781	7.71000	5.70781	-0.00000
32.5000	34.8501	6.08122	7.92018	6.08121	-0.00001

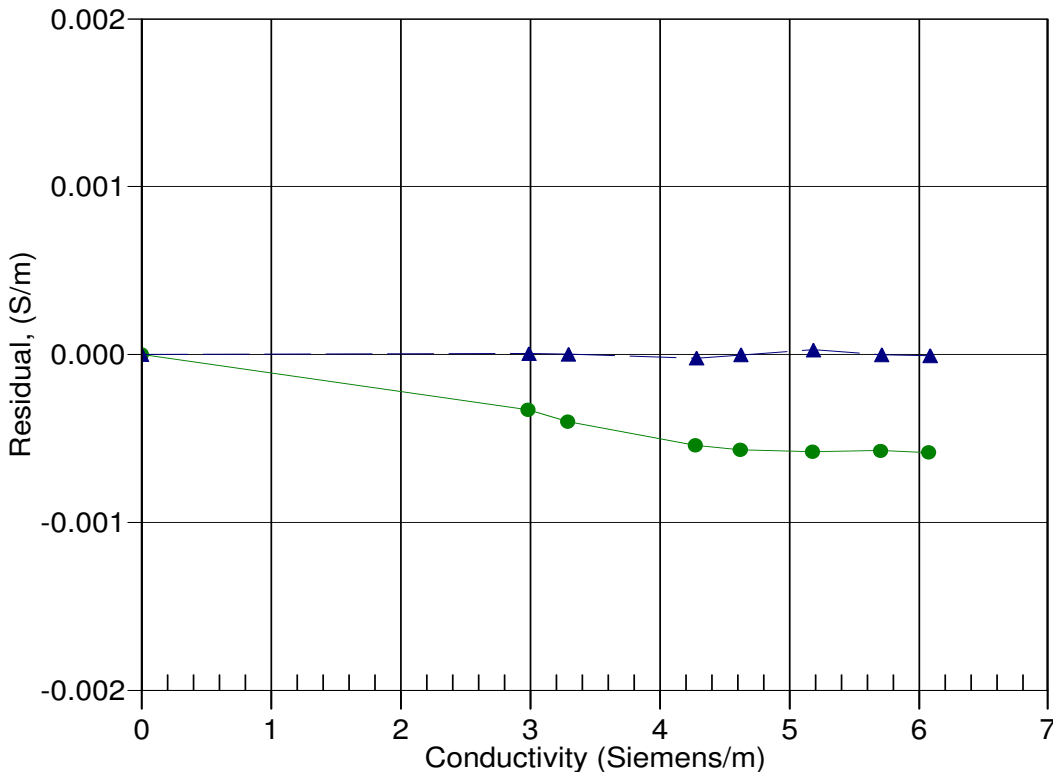
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

Conductivity =  $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$  Siemens/meter

t = temperature[°C]; p = pressure[decibars];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction



● 29-Nov-08 1.0001097  
▲ 04-Nov-09 1.0000000