

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0066  
CALIBRATION DATE: 16-Nov-08

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

## GHIJ COEFFICIENTS

g = -9.82723101e+000  
h = 1.09325453e+000  
i = -1.23598151e-003  
j = 1.77171932e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 1.73777315e-005  
b = 1.08969854e+000  
c = -9.81543897e+000  
d = -8.42259023e-005  
m = 4.7  
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	3.00106	0.00000	0.00000
0.9999	34.8391	2.97772	6.02163	2.97773	0.00001
4.4999	34.8196	3.28500	6.25028	3.28499	-0.00000
15.0000	34.7774	4.26735	6.93013	4.26733	-0.00001
18.5000	34.7683	4.61269	7.15355	4.61269	0.00000
24.0000	34.7583	5.17095	7.50038	5.17096	0.00001
29.0000	34.7527	5.69307	7.81050	5.69307	-0.00000
32.5000	34.7491	6.06560	8.02428	6.06559	-0.00000

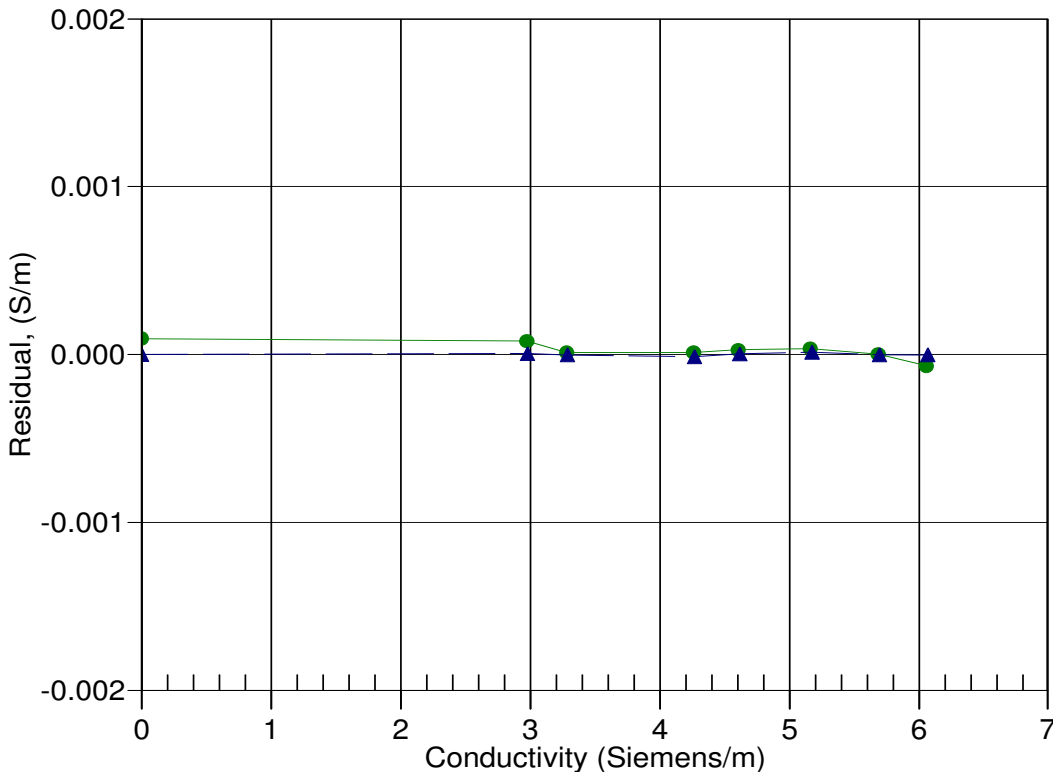
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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

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

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

Date, Slope Correction



● 24-Jun-07 0.9999986  
▲ 16-Nov-08 1.0000000