

# SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0075  
CALIBRATION DATE: 04-Nov-09

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

## GHIJ COEFFICIENTS

g = -1.01144152e+001  
h = 1.14888282e+000  
i = -2.34050369e-003  
j = 2.53003998e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 2.82752778e-006  
b = 1.14187235e+000  
c = -1.00932591e+001  
d = -8.85899782e-005  
m = 5.5  
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	2.97322	0.00000	0.00000
1.0000	34.9455	2.98595	5.91150	2.98596	0.00000
4.5000	34.9245	3.29392	6.13459	3.29392	-0.00001
15.0000	34.8805	4.27865	6.79831	4.27865	0.00000
18.5000	34.8707	4.62481	7.01647	4.62481	0.00000
24.0000	34.8600	5.18441	7.35520	5.18441	0.00001
29.0000	34.8541	5.70781	7.65815	5.70780	-0.00001
32.5000	34.8501	6.08122	7.86697	6.08122	0.00001

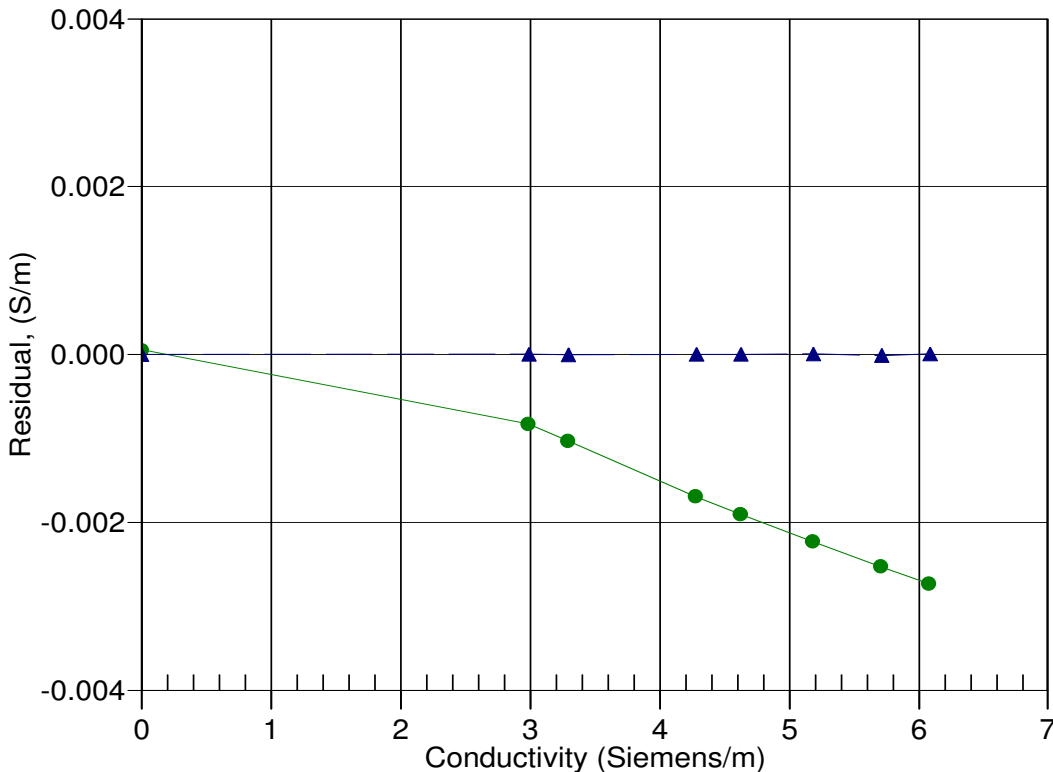
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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 1.0004144  
▲ 04-Nov-09 1.0000000