

# Sea-Bird GmbH

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SENSOR SERIAL NUMBER: 3678  
CALIBRATION DATE: 12-Apr-13

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

## GHIJ COEFFICIENTS

g = -1.02033041e+001  
h = 1.61039087e+000  
i = -1.32325556e-003  
j = 2.05154162e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 6.68154451e-007  
b = 1.60797181e+000  
c = -1.02008999e+001  
d = -8.54279338e-005  
m = 6.4  
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	2.51871	0.00000	0.00000
-1.0000	34.8247	2.80519	4.87631	2.80519	-0.00000
1.0000	34.8252	2.97665	4.98429	2.97666	0.00000
15.0000	34.8256	4.27263	5.73463	4.27263	-0.00001
18.5000	34.8237	4.61924	5.91910	4.61925	0.00001
29.0000	34.8123	5.70174	6.46102	5.70174	-0.00000

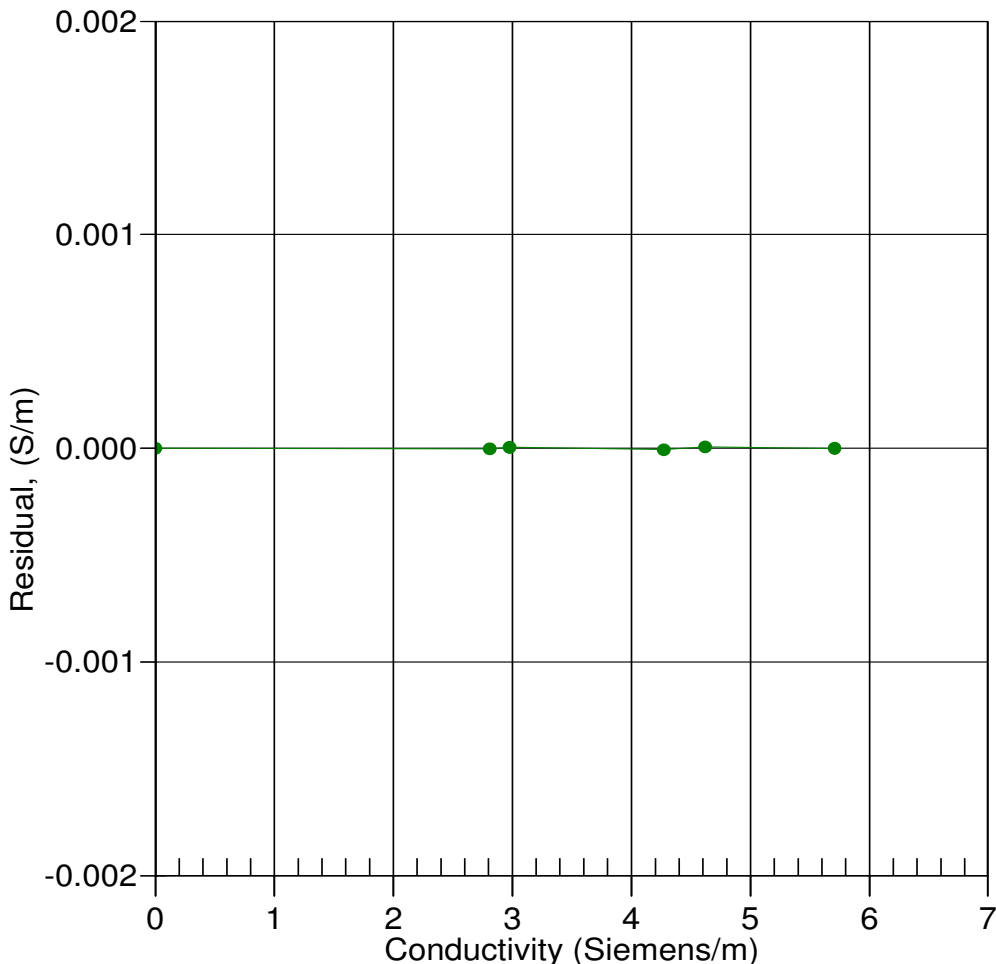
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



12-Apr-13 1.0000000