

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0040
CALIBRATION DATE: 29-Mar-13

SBE GLIDER PAYLOAD CTD
CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.745568e-001
h = 1.474577e-001
i = 2.374086e-004
j = 1.205290e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 3.2479e-008

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2564.83	0.00000	0.00000
1.0000	34.9245	2.98433	5154.57	2.98435	0.00002
4.5000	34.9045	3.29222	5349.98	3.29220	-0.00002
15.0000	34.8613	4.27655	5930.88	4.27654	-0.00001
18.5000	34.8517	4.62256	6121.69	4.62256	0.00000
24.0000	34.8407	5.18185	6417.86	5.18186	0.00001
29.0000	34.8334	5.70480	6682.59	5.70481	0.00000
32.5000	34.8282	6.07783	6865.01	6.07782	-0.00001

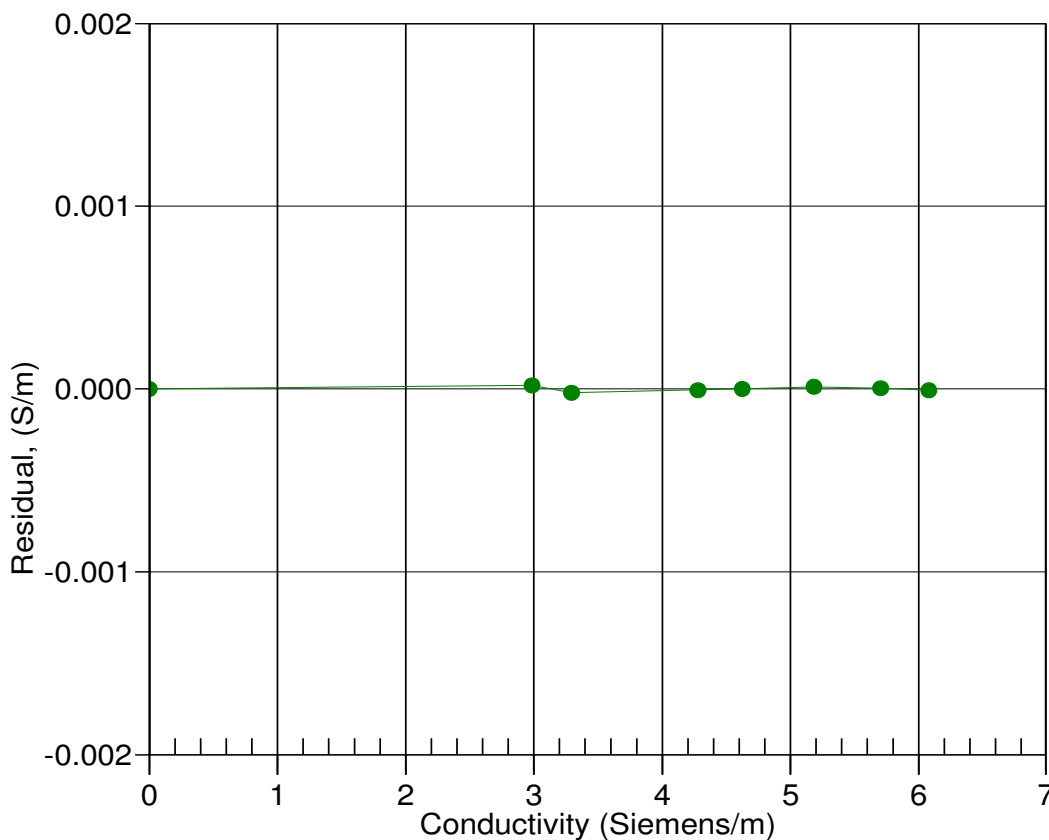
$$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$$

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

$$t = \text{temperature}[^{\circ}\text{C}]; p = \text{pressure}[\text{decibars}]; \delta = \text{CTcor}; \epsilon = \text{CPcor};$$

$$\text{Residual} = \text{instrument conductivity} - \text{bath conductivity}$$

Date, Slope Correction



29-Mar-13 1.0000000