Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0039
CALIBRATION DATE: 07-Sep-11

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

COEFFICIENTS:

g = −9.801006e−001
h = 1.444200e−001
i = 1.068997e−004
j = 2.140791e−005

CPcor = −9.5700e−008
CTcor = 3.2500e−006
WBOTC = −2.2416e−007

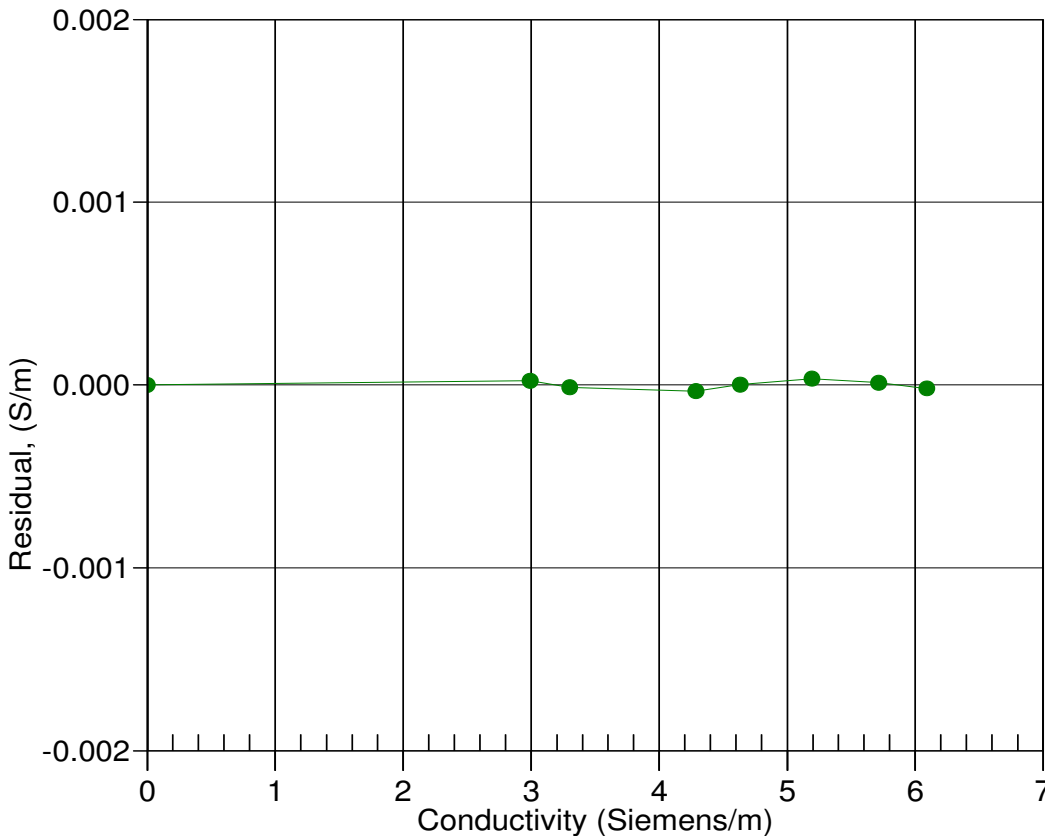| BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2601.28	0.00000	0.00000
1.0000	35.0036	2.99044	5222.79	2.99047	0.00002
4.5000	34.9832	3.29891	5420.64	3.29890	−0.00001
15.0000	34.9395	4.28512	6008.76	4.28509	−0.00004
18.5000	34.9295	4.63176	6201.95	4.63176	0.00000
23.9999	34.9182	5.19209	6501.75	5.19213	0.00003
29.0000	34.9113	5.71612	6769.74	5.71613	0.00001
32.5000	34.9062	6.08989	6954.38	6.08987	−0.00002

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

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

$t = \text{temperature[°C)]}; p = \text{pressure[decibars]}; \delta = CTcor; \varepsilon = CPcor;$

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

07-Sep-11 1.0000000