

Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0042
CALIBRATION DATE: 03-May-13

SBE 49 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.912443e-001
h = 1.448930e-001
i = -1.825685e-004
j = 3.765448e-005

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

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2617.56	0.0000	0.00000
1.0000	34.9107	2.98326	5236.04	2.9832	-0.00002
4.5000	34.8911	3.29108	5434.25	3.2911	0.00001
15.0000	34.8491	4.27521	6023.46	4.2752	0.00003
18.5000	34.8405	4.62123	6217.06	4.6212	0.00001
24.0000	34.8312	5.18060	6517.53	5.1805	-0.00005
29.0061	34.8262	5.70440	6786.56	5.7044	0.00002

f = INST FREQ / 1000.0

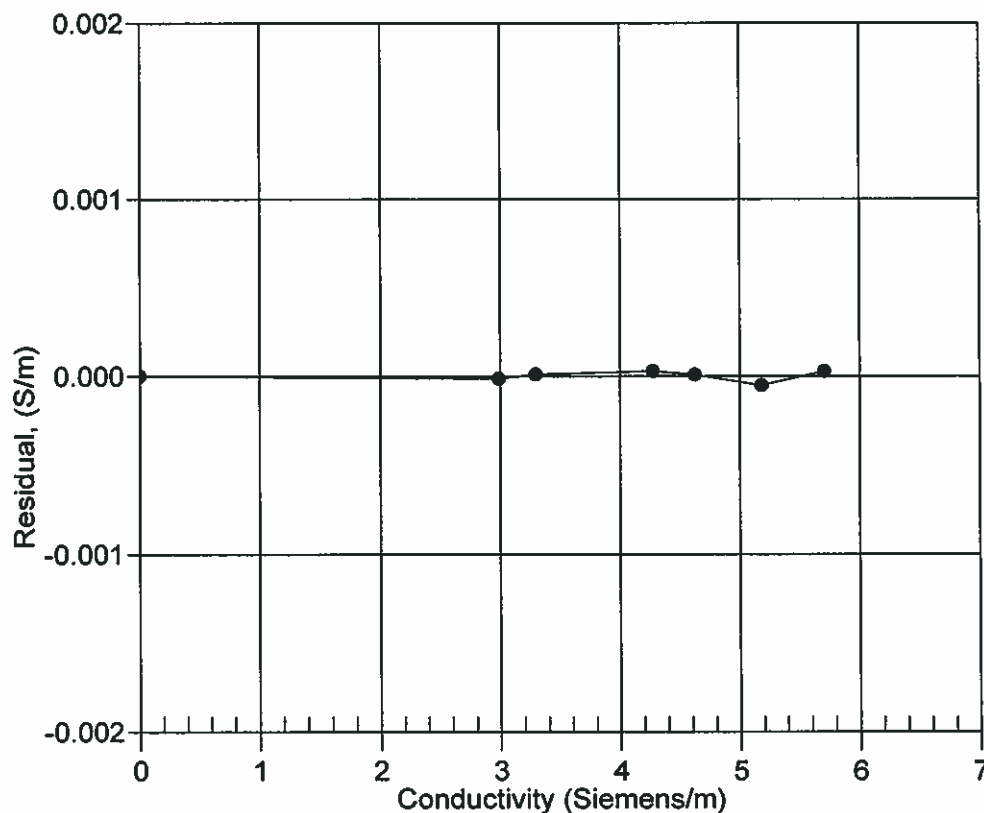
Conductivity = $(g + hf^2 + if^3 + jf^4) / (1 + \delta t + \epsilon p)$ Siemens/meter

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

● 03-May-13 1.0000000



**CALIBRATION
AFTER
MODIFICATIONS**