

# 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: 04-Apr-13

SBE GLIDER PAYLOAD CTD

CONDUCTIVITY CALIBRATION DATA

PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## COEFFICIENTS:

g = -9.799864e-001

h = 1.475954e-001

i = -3.523863e-004

j = 4.672107e-005

CPcor = -9.5700e-008

CTcor = 3.2500e-006

WBOTC = 1.6136e-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	2581.99	0.00000	0.00000
1.0000	34.8547	2.97893	5189.12	2.97894	0.00000
4.5000	34.8347	3.28629	5386.28	3.28627	-0.00002
15.0000	34.7917	4.26891	5972.44	4.26894	0.00002
18.5000	34.7827	4.61439	6165.03	4.61442	0.00002
24.0000	34.7728	5.17287	6463.89	5.17284	-0.00003
29.0000	34.7669	5.69514	6731.08	5.69512	-0.00002
32.5000	34.7629	6.06773	6915.21	6.06775	0.00002

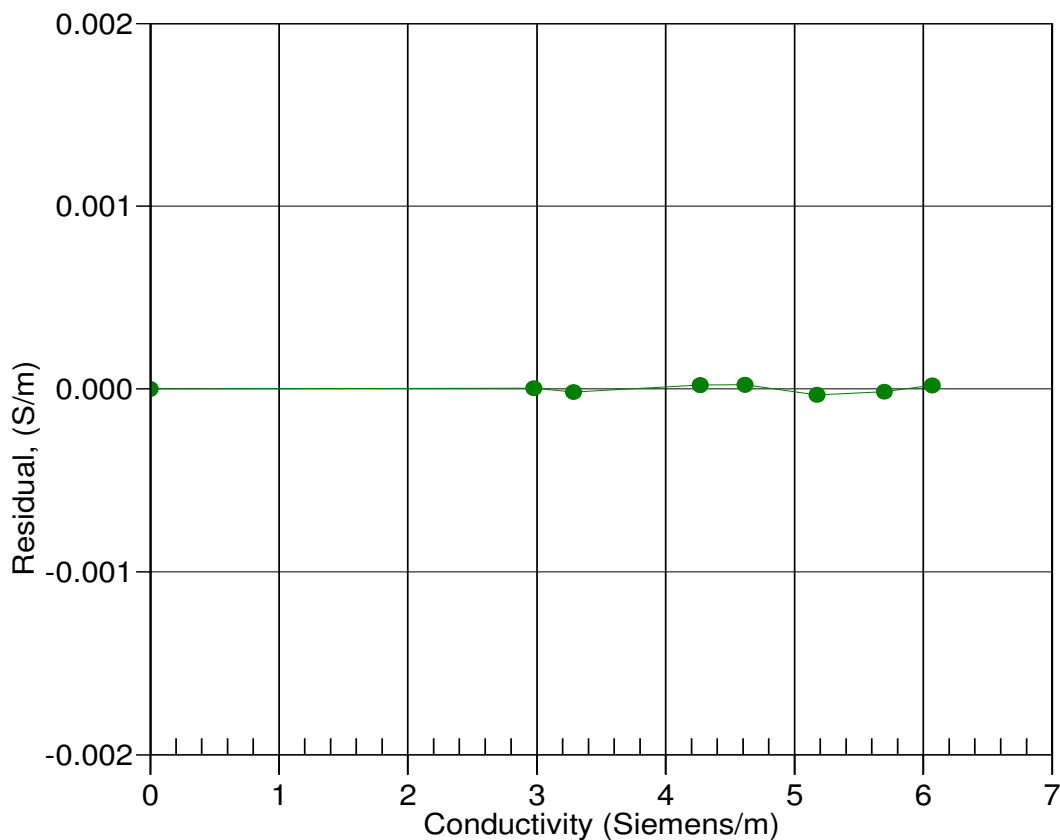
$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

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

t = temperature[°C]; p = pressure[decibars];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Residual = instrument conductivity - bath conductivity

Date, Slope Correction



04-Apr-13 1.0000000