

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0042

CALIBRATION DATE: 19-Sep-11

SBE GLIDER PAYLOAD CTD

CONDUCTIVITY CALIBRATION DATA

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

COEFFICIENTS:

g = -9.862292e-001

h = 1.486750e-001

i = -4.222197e-004

j = 5.295611e-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	2581.95	0.00000	0.00000
1.0000	35.0206	2.99176	5186.02	2.99176	0.00001
4.5000	35.0004	3.30037	5382.95	3.30037	-0.00000
15.0000	34.9568	4.28702	5968.36	4.28700	-0.00002
18.5000	34.9475	4.63389	6160.69	4.63389	0.00000
24.0000	34.9370	5.19459	6459.15	5.19460	0.00002
29.0000	34.9310	5.71898	6725.95	5.71898	-0.00000
32.5000	34.9269	6.09309	6909.78	6.09308	-0.00000

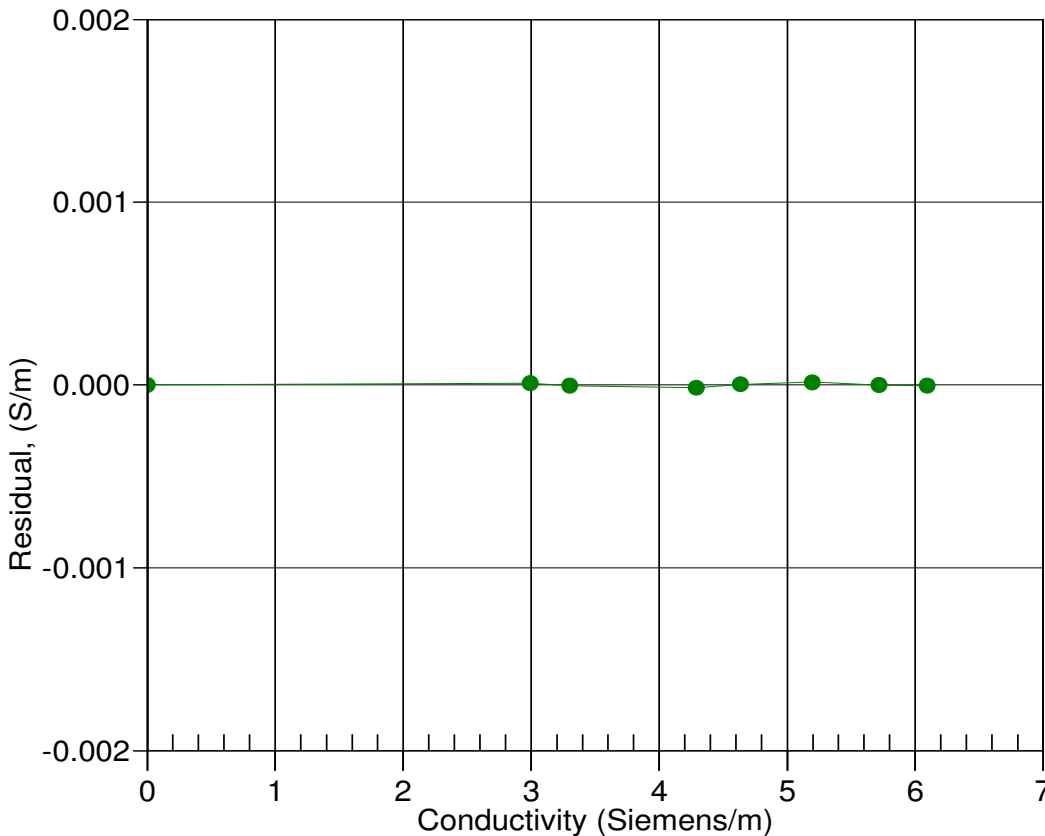
$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

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

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

Residual = instrument conductivity - bath conductivity

Date, Slope Correction



19-Sep-11 1.0000000