

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0041

CALIBRATION DATE: 25-Sep-13

SBE GLIDER PAYLOAD CTD

CONDUCTIVITY CALIBRATION DATA

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

COEFFICIENTS:

g = -9.795938e-001

CPcor = -9.5700e-008

h = 1.507048e-001

CTcor = 3.2500e-006

i = -4.739525e-004

WBOTC = 1.9558e-007

j = 5.830725e-005

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	2556.57	0.00000	0.00000
1.0000	34.7558	2.97129	5135.48	2.97131	0.00003
15.0000	34.6936	4.25815	5910.42	4.25809	-0.00006
18.5000	34.6847	4.60279	6100.94	4.60275	-0.00004
24.0000	34.6749	5.15991	6396.63	5.15997	0.00006
29.0000	34.6696	5.68099	6660.93	5.68108	0.00009
32.5000	34.6667	6.05285	6842.99	6.05277	-0.00008

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

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

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

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

