

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0041

CALIBRATION DATE: 03-Nov-11

SBE GLIDER PAYLOAD CTD

CONDUCTIVITY CALIBRATION DATA

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

COEFFICIENTS:

g = -9.813135e-001

h = 1.508818e-001

i = -4.163334e-004

j = 5.300949e-005

CPcor = -9.5700e-008

CTcor = 3.2500e-006

WBOTC = 1.9558e-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	2556.35	0.00000	0.00000
1.0000	34.9969	2.98993	5142.94	2.98993	0.00000
4.5000	34.9763	3.29833	5338.44	3.29833	0.00000
15.0000	34.9321	4.28431	5919.56	4.28430	-0.00001
18.5000	34.9225	4.63093	6110.46	4.63092	-0.00001
24.0000	34.9116	5.19123	6406.72	5.19123	0.00000
29.0000	34.9049	5.71519	6671.53	5.71522	0.00003
32.5000	34.8999	6.08892	6853.93	6.08889	-0.00002

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

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

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

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

