

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4139  
CALIBRATION DATE: 11-Feb-14

SBE16plus CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## COEFFICIENTS:

g = -1.002942e+000

CPcor = -9.5700e-008

h = 1.379381e-001

CTcor = 3.2500e-006

i = -4.072177e-004

j = 4.749508e-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	2703.87	0.0000	0.00000
1.0000	34.7374	2.96986	5382.64	2.9699	0.00000
4.5000	34.7177	3.27634	5585.95	3.2763	-0.00000
15.0000	34.6758	4.25620	6190.56	4.2562	-0.00000
18.5000	34.6671	4.60071	6389.25	4.6007	-0.00000
24.0000	34.6577	5.15764	6697.68	5.1576	-0.00000
29.0000	34.6527	5.67853	6973.45	5.6785	0.00001
32.5000	34.6500	6.05026	7163.53	6.0503	-0.00001

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];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Residual = instrument conductivity - bath conductivity

