

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 6629  
CALIBRATION DATE: 10-Jun-11

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

## COEFFICIENTS:

g = -1.051370e+000  
h = 1.461016e-001  
i = -2.321708e-004  
j = 3.669753e-005

CPcor = -9.5700e-008  
CTcor = 3.2500e-006

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	2685.87	0.0000	0.00000
0.9999	34.9315	2.98486	5259.77	2.9849	-0.00000
4.4999	34.9113	3.29279	5456.16	3.2928	0.00000
14.9999	34.8676	4.27723	6040.63	4.2772	0.00001
18.5000	34.8581	4.62331	6232.84	4.6233	0.00000
24.0000	34.8472	5.18271	6531.30	5.1827	-0.00001
28.9999	34.8391	5.70562	6798.16	5.7056	-0.00001
32.5000	34.8328	6.07854	6982.08	6.0785	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

