

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0039  
CALIBRATION DATE: 15-Mar-11

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

## COEFFICIENTS:

g = -9.882026e-001	CPcor = -9.5700e-008
h = 1.441406e-001	CTcor = 3.2500e-006
i = -3.547699e-004	WBOTC = -6.3508e-007
j = 4.605701e-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	2623.97	0.00000	0.00000
1.0000	34.8640	2.97965	5257.49	2.97964	-0.00001
4.5000	34.8433	3.28702	5456.85	3.28703	0.00001
15.0000	34.8002	4.26985	6049.57	4.26984	-0.00001
18.5000	34.7911	4.61539	6244.34	4.61539	0.00000
24.0000	34.7814	5.17401	6546.64	5.17401	-0.00000
29.0000	34.7761	5.69647	6816.92	5.69648	0.00001
32.5000	34.7726	6.06923	7003.17	6.06923	-0.00000

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

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

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

Residual = instrument conductivity - bath conductivity

