Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0040
CALIBRATION DATE: 09-Mar-13

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

COEFFICIENTS:

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g = -9.742249e-001
h =  1.475797e-001
i =  1.220335e-004
j =  2.139156e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  3.2479e-008
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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	2565.37	0.00000	0.00000
1.0000	34.7816	2.97328	5151.05	2.97329	0.00001
4.5000	34.7610	3.28002	5346.23	3.28000	-0.00002
15.0000	34.7172	4.26074	5926.44	4.26075	0.00001
18.5000	34.7076	4.60550	6117.03	4.60552	0.00002
24.0000	34.6966	5.16279	6412.81	5.16281	0.00003
28.9999	34.6902	5.68397	6677.17	5.68388	-0.00009
32.5000	34.6862	6.05586	6859.50	6.05592	0.00005

f = INST FREQ * sqrt(1.0 + WBOTC * t) / 1000.0

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

t = temperature[°C)]; p = pressure[decibars]; δ = CTcor; ε = CPcor;

Residual = instrument conductivity - bath conductivity