Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0042
CALIBRATION DATE: 30-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 = -9.836165e-001
h =  1.480629e-001
i = -3.211359e-004
j =  4.684582e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  1.6136e-007
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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	2581.95	0.00000	0.00000
0.9999	34.9343	2.98508	5184.39	2.98508	0.00000
4.5000	34.9145	3.29307	5381.20	3.29308	0.00001
15.0000	34.8718	4.27770	5966.17	4.27767	-0.00003
18.5000	34.8628	4.62387	6158.37	4.62386	-0.00001
24.0000	34.8530	5.18348	6456.67	5.18350	0.00002
29.0000	34.8479	5.70691	6723.34	5.70693	0.00002
32.5000	34.8455	6.08050	6907.16	6.08048	-0.00002

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