Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0042
CALIBRATION DATE: 04-Apr-13

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

COEFFICIENTS:

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g = -9.799864e-001
h =  1.475954e-001
i = -3.523863e-004
j =  4.672107e-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	2581.99	0.00000	0.00000
1.0000	34.8547	2.97893	5189.12	2.97894	0.00000
4.5000	34.8347	3.28629	5386.28	3.28627	-0.00002
15.0000	34.7917	4.26891	5972.44	4.26894	0.00002
18.5000	34.7827	4.61439	6165.03	4.61442	0.00002
24.0000	34.7728	5.17287	6463.89	5.17284	-0.00003
29.0000	34.7669	5.69514	6731.08	5.69512	-0.00002
32.5000	34.7629	6.06773	6915.21	6.06775	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