Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0042
CALIBRATION DATE: 19-Sep-11

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

COEFFICIENTS:

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g = -9.862292e-001
h =  1.486750e-001
i = -4.222197e-004
j =  5.295611e-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
1.0000	35.0206	2.99176	5186.02	2.99176	0.00001
4.5000	35.0004	3.30037	5382.95	3.30037	-0.00000
15.0000	34.9568	4.28702	5968.36	4.28700	-0.00002
18.5000	34.9475	4.63389	6160.69	4.63389	0.00000
24.0000	34.9370	5.19459	6459.15	5.19460	0.00002
29.0000	34.9310	5.71898	6725.95	5.71898	-0.00000
32.5000	34.9269	6.09309	6909.78	6.09308	-0.00000

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