Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0150
CALIBRATION DATE: 12-Feb-16

Glider Payload CTD CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

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g = -9.809954e-001
h =  1.487304e-001
i = -2.739031e-004
j =  4.224825e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  2.5919e-007
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BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2571.90	0.00000	0.00000
1.0000	34.7997	2.97468	5162.16	2.97468	-0.00001
4.5000	34.7796	3.28160	5358.11	3.28161	0.00001
15.0000	34.7364	4.26285	5940.61	4.26284	-0.00001
18.5000	34.7271	4.60781	6132.01	4.60782	0.00001
23.9999	34.7169	5.16546	6429.05	5.16546	0.00000
29.0000	34.7114	5.68707	6694.65	5.68706	-0.00001
32.5000	34.7085	6.05931	6877.76	6.05932	0.00000

f = Instrument Output(Hz) * sqrt(1.0 + WBOTC * t) / 1000.0

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

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \varepsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity