Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0206
CALIBRATION DATE: 15-Feb-17

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

COEFFICIENTS:

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g = -9.911667e-001
h =  1.263606e-001
i = -6.150068e-005
j =  2.158357e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  3.5703e-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	2800.73	0.00000	0.00000
1.0000	34.7312	2.96938	5591.20	2.96939	0.00001
4.4999	34.7120	3.27584	5802.61	3.27584	-0.00000
15.0000	34.6705	4.25562	6431.24	4.25560	-0.00001
18.5000	34.6617	4.60007	6637.84	4.60008	0.00001
24.0000	34.6524	5.15693	6958.56	5.15695	0.00001
29.0000	34.6479	5.67783	7245.38	5.67783	-0.00001
32.5000	34.6456	6.04958	7443.12	6.04954	-0.00005

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