Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0173
CALIBRATION DATE: 07-Feb-16

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

COEFFICIENTS:

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g = -9.988132e-001
h =  1.302555e-001
i = -7.160516e-005
j =  2.230296e-005
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CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  4.5132e-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	2769.41	0.00000	0.00000
1.0000	34.6982	2.96683	5511.72	2.96681	-0.00002
4.5000	34.6784	3.27299	5719.77	3.27302	0.00003
15.0000	34.6362	4.25185	6338.40	4.25184	-0.00001
18.5000	34.6276	4.59603	6541.78	4.59603	-0.00000
24.0000	34.6184	5.15243	6857.53	5.15245	0.00001
29.0000	34.6139	5.67289	7139.93	5.67288	-0.00000
32.5000	34.6120	6.04438	7334.69	6.04438	-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