SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3429
CALIBRATION DATE: 11-Dec-07

SBE 37 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

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g = -1.033415e+000
h =  1.410419e-001
i = -2.264658e-004
j =  3.867350e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC = -4.2428e-006
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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	2710.14	0.00000	0.00000
1.0000	35.1574	3.00232	5351.19	3.00234	0.00002
4.5000	35.1364	3.31193	5551.95	3.31193	0.00001
15.0000	35.0925	4.30189	6149.20	4.30185	-0.00004
18.5000	35.0834	4.64996	6345.57	4.64992	-0.00003
24.0000	35.0731	5.21258	6650.44	5.21262	0.00004
29.0000	35.0665	5.73866	6923.00	5.73874	0.00008
32.5000	35.0613	6.11386	7110.72	6.11379	-0.00006

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