Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0041 CALIBRATION DATE: 06-Feb-14

SBE 49 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 8.475638e - 004a1 = 2.822316e-004a2 = -2.147358e - 006a3 = 2.154652e - 007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT(n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	682084.932	1.0001	0.0001
4.5000	601806.373	4.4998	-0.0002
15.0000	399695.729	15.0001	0.0001
18.5000	344654.153	18.5000	0.0000
24.0000	269328.271	23.9999	-0.0001
29.0000	211482.644	28.9998	-0.0002
32.5001	176305.339	32.5002	0.0001

MV = (n - 524288) / 1.6e + 007

R = (MV * 2.295e+010 + 9.216e+008) / (6.144e+004 - MV * 5.3e+005)

Temperature ITS-90 = $1/{a0 + a1[ln(R)] + a2[ln^2(R)] + a3[ln^3(R)]} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

Date, Delta T (mdeg C)

