Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0042 CALIBRATION DATE: 13-Apr-13

SBE 49 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 6.823609e-004 a1 = 3.284375e-004 a2 = -6.713683e-006 a3 = 3.659896e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT(n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	698765.492	1.0000	-0.0000
4.5000	617613.542	4.5000	0.0000
15.0000	412647.085	15.0001	0.0001
18.5000	356663.712	18.4999	-0.0001
24.0000	279936.034	23.9999	-0.0001
29.0000	220927.051	29.0002	0.0002
32.5000	185016.068	32.4999	-0.0001

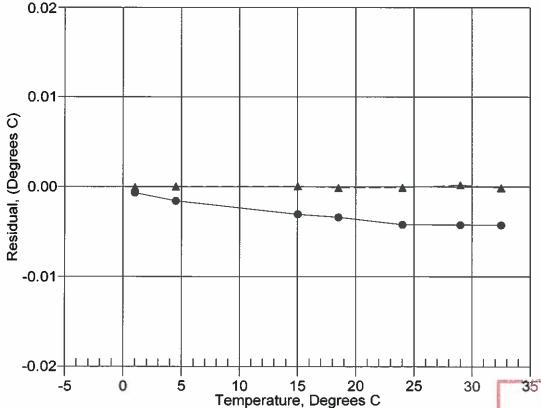
MV = (n - 524288) / 1.6e + 007

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)



● 07-Dec-07 -3.05 ▲ 13-Apr-13 -0.00

POST CRUISE CALIBRATION