Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0042
CALIBRATION DATE: 03-May-13

SBE 49 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 6.973450e-004
a1 = 3.239442e-004
a2 = -6.262367e-006
a3 = 3.507807e-007

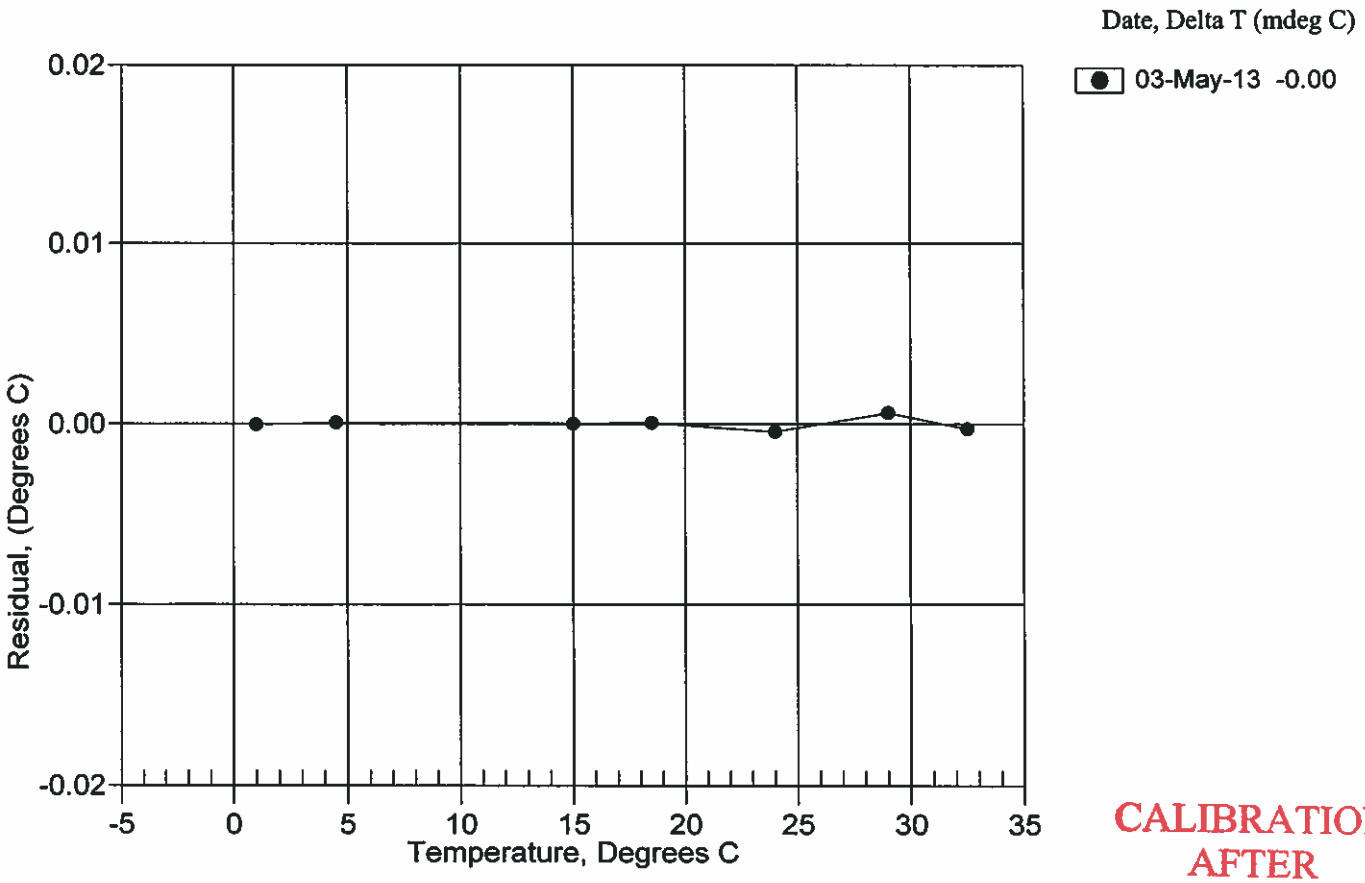
BATH TEMP (ITS-90)	INSTRUMENT OUTPUT(n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	698810.678	1.0000	-0.0000
4.5000	617648.000	4.5000	0.0000
15.0000	412655.339	15.0000	0.0000
18.5000	356660.153	18.5001	0.0001
24.0000	279926.186	23.9996	-0.0004
29.0061	220829.898	29.0067	0.0006
32.5119	184868.458	32.5116	-0.0003

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



CALIBRATION AFTER MODIFICATIONS