Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0539
CALIBRATION DATE: 12-Feb-14

SBE16 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.16917446e-003
h = 5.92897655e-004
i = 3.14479477e-006
j = -1.89071790e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.64763909e-003
b = 5.83011100e-004
c = 8.19470085e-006
d = -1.89036458e-006
f0 = 2425.444

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9998	2425.444	0.9997	-0.00011
4.5000	2624.795	4.5002	0.00020
15.0000	3291.918	14.9998	-0.00017
18.5000	3538.491	18.5000	0.00002
24.0000	3951.608	24.0000	-0.00004
29.0001	4355.374	29.0004	0.00026
32.5000	4654.433	32.4998	-0.00016

Temperature ITS-90 = $1/\{g + h[ln(f_0/f)] + i[ln^2(f_0/f)] + j[ln^3(f_0/f)]\} - 273.15$ (°C)

Temperature IPTS-68 = $1/\{a + b[ln(f_0/f)] + c[ln^2(f_0/f)] + d[ln^3(f_0/f)]\} - 273.15$ (°C)

Following the recommendation of JPOTS: T_{68} is assumed to be 1.00024 * T_{90} (-2 to 35 °C)

Residual = instrument temperature - bath temperature