Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1366
CALIBRATION DATE: 18-Jul-13

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.83483585e-003
h = 6.77076392e-004
i = 2.60978776e-005
j = 2.05978043e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121304e-003
b = 6.02922995e-004
c = 1.49262074e-005
d = 2.06121874e-006
f0 = 6124.703

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	6124.703	-1.5001	0.00005
1.0000	6475.967	1.0000	-0.00004
4.5000	6991.741	4.5000	-0.00004
7.9999	7536.204	7.9999	-0.00002
11.4999	8110.134	11.4999	0.00003
14.9999	8714.225	14.9999	0.00004
18.4999	9349.181	18.4999	0.00004
21.9999	10015.674	21.9999	0.00001
25.5000	10714.362	25.4999	-0.00007
29.0000	11445.856	28.9999	-0.00007
32.5000	12210.783	32.5001	0.00007

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