Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3115
CALIBRATION DATE: 28-Jun-12

SBE16 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.18131517e-003
h = 6.00905357e-004
i = 8.71587163e-006
j = -9.76237452e-007
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.64763755e-003
b = 5.82958802e-004
c = 1.13798914e-005
d = -9.75522243e-007
f0 = 2462.268

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	2462.268	0.9998	-0.00019
4.5000	2664.756	4.5004	0.00036
15.0000	3343.547	14.9997	-0.00029
18.5000	3594.854	18.4999	-0.00011
24.0000	4016.383	24.0003	0.00029
29.0000	4428.768	29.0001	0.00008
32.5000	4734.550	32.4999	-0.00013

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