Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0538 CALIBRATION DATE: 13-Jan-12

SBE16 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

q = 4.18647663e-003h = 5.91895424e-004i = 2.03132357e-006j = -2.22279042e-006f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.64763595e - 003b = 5.82715642e - 004c = 8.16467951e-006d = -2.22248461e-006f0 = 2499.591

BATH TEMP (ITS-90)	INSTRUMENT FREO (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	2499.591	0.9999	-0.00007
4.5000	2705.126	4.5001	0.00013
14.9999	3393.105	14.9998	-0.00007
18.5000	3647.433	18.5000	-0.00004
24.0000	4073.637	24.0000	-0.00004
29.0000	4490.287	29.0002	0.00023
32.5000	4798.988	32.4999	-0.00014

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

Date, Offset(mdeg C)

11-Nov-04 0.97

