Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4607
CALIBRATION DATE: 09-May-12

SBE16plus TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.142504e-003
a1 = 2.740969e-004
a2 = -9.044922e-007
a3 = 1.763548e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT(n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	720719.727	1.0001	0.0001
4.5000	646175.091	4.4999	-0.0001
15.0000	456420.000	15.0001	0.0001
18.5000	404250.000	18.5000	-0.0000
24.0000	332531.182	24.0000	0.0000
29.0000	277220.000	28.9998	-0.0002
32.5000	243488.273	32.5001	0.0001

MV = (n - 524288) / 1.6e+007

R = (MV * 2.900e+009 + 1.024e+008) / (2.048e+004 - MV * 2.0e+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

Date, Delta T (mdeg C)

	Date	Delta T
●	15-Dec-09	0.76
▲	09-May-12	0.00