SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0696
CALIBRATION DATE: 15-Dec-10

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.84798477e-003
h = 6.91328432e-004
i = 3.41611095e-005
j = 3.29622288e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68120931e-003
b = 5.99783262e-004
c = 1.61606186e-005
d = 3.29791846e-006
f0 = 6190.890

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.4999	6190.890	-1.4998	0.00012
1.0001	6547.870	1.0000	-0.00011
4.5001	7072.415	4.5000	-0.00011
8.0001	7626.533	8.0001	-0.00001
11.5001	8210.955	11.5001	0.00002
15.0001	8826.431	15.0002	0.00011
18.5001	9473.631	18.5002	0.00013
22.0001	10153.222	22.0002	0.00008
25.5001	10865.795	25.4999	-0.00020
29.0001	11612.043	28.9999	-0.00025
32.5001	12392.595	32.5003	0.00022

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