SEA-BIRD ELECTRONICS, INC.

13431 NE 20th Street, Bellevue, Washington, 98005-2010 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 5171
CALIBRATION DATE: 15-Feb-11

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.39237658e-003
h = 6.45406736e-004
i = 2.29698970e-005
j = 2.13709910e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121097e-003
b = 6.01404466e-004
c = 1.56661011e-005
d = 2.13860073e-006
f0 = 3137.667

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.4999	3137.667	-1.4999	-0.00000
1.0001	3318.099	1.0001	0.00001
4.5001	3583.129	4.5001	-0.00000
8.0001	3863.022	8.0001	-0.00003
11.5001	4158.184	11.5001	0.00002
15.0001	4468.990	15.0001	0.00005
18.5001	4795.806	18.5001	-0.00003
22.0001	5139.006	22.0000	-0.00005
25.5001	5498.945	25.5001	0.00004
29.0001	5875.932	29.0001	0.00001
32.5001	6270.299	32.5001	-0.00001

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