Sea-Bird Electronics, Inc.

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

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1371
CALIBRATION DATE: 17-Aug-12

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.83366103e-003
h = 6.78125768e-004
i = 2.63985123e-005
j = 2.05755274e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121164e-003
b = 6.02965512e-004
c = 1.52602839e-005
d = 2.05901776e-006
f0 = 6103.660

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	6103.660	-1.4999	0.00005
1.0000	6453.686	0.9999	-0.00005
4.5000	6967.707	4.5000	-0.00003
8.0000	7510.377	8.0000	-0.00004
11.5000	8082.464	11.5000	0.00004
14.9999	8684.669	15.0000	0.00012
18.4999	9317.697	18.4999	0.00003
22.0000	9982.237	21.9998	-0.00019
25.5000	10679.022	25.5000	0.00005
29.0000	11408.556	29.0000	0.00001
32.5000	12171.501	32.5000	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