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: 4569
CALIBRATION DATE: 27-Mar-13

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.35548162e-003
h = 6.36177455e-004
i = 2.07102801e-005
j = 1.74121486e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121186e-003
b = 5.97219729e-004
c = 1.50155077e-005
d = 1.74260545e-006
f0 = 2990.216

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	2990.216	-1.5000	0.00003
1.0000	3163.396	1.0000	-0.00003
4.5000	3417.877	4.5000	-0.00004
8.0000	3686.754	8.0000	-0.00001
11.5000	3970.420	11.5000	0.00004
15.0000	4269.260	15.0001	0.00009
18.5000	4583.632	18.5000	-0.00004
22.0000	4913.924	21.9999	-0.00007
25.5000	5260.488	25.5000	-0.00001
29.0000	5623.656	29.0000	0.00005
32.5000	6003.743	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