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: 0658
CALIBRATION DATE: 14-Jan-12

SBE16 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.19154934e-003
h = 5.95053866e-004
i = 6.87211906e-006
j = -1.03413729e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.64763618e-003
b = 5.79817886e-004
c = 9.76722280e-006
d = -1.03355166e-006
f0 = 2522.667

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	2522.667	0.9999	-0.00009
4.5000	2731.228	4.5002	0.00016
15.0000	3430.427	15.0000	-0.00001
18.5000	3689.211	18.4998	-0.00021
24.0000	4123.251	24.0001	0.00010
29.0000	4547.813	29.0002	0.00020
32.5000	4862.526	32.4999	-0.00014

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