

# 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: 2633  
CALIBRATION DATE: 04-Feb-15

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS:

g = 4.36670398e-003  
h = 6.48436013e-004  
i = 2.41929099e-005  
j = 2.36533716e-006  
f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	2995.924	-1.5001	0.00002
1.0000	3167.447	1.0000	-0.00003
4.5000	3419.351	4.5000	-0.00001
8.0000	3685.338	8.0000	-0.00000
11.4999	3965.775	11.4999	0.00002
14.9999	4261.034	14.9999	0.00000
18.5000	4571.470	18.5000	-0.00002
21.9999	4897.405	22.0000	0.00008
25.5000	5239.168	25.5000	-0.00005
29.0000	5597.074	28.9999	-0.00006
32.5000	5971.432	32.5000	0.00004

$$\text{Temperature ITS-90} = 1/\{g + h[\ln(f_0/f)] + i[\ln^2(f_0/f)] + j[\ln^3(f_0/f)]\} - 273.15 \text{ (}^\circ\text{C)}$$

Residual = instrument temperature - bath temperature

