

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2446
 CALIBRATION DATE: 02-Dec-14

SBE 3 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS:

g = 4.37271405e-003
 h = 6.48749995e-004
 i = 2.40642496e-005
 j = 2.25424001e-006
 f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	3024.127	-1.5000	0.00002
1.0000	3197.298	1.0000	0.00001
4.5000	3451.637	4.4999	-0.00006
8.0000	3720.226	8.0000	-0.00000
11.5000	4003.434	11.5000	0.00000
15.0000	4301.642	15.0001	0.00008
18.5000	4615.189	18.5000	0.00001
22.0000	4944.436	21.9999	-0.00006
25.5000	5289.730	25.5000	-0.00000
29.0000	5651.374	29.0000	-0.00001
32.5000	6029.687	32.5000	0.00002

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

Residual = instrument temperature - bath temperature

