

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1369
CALIBRATION DATE: 04-Feb-15

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS:

g = 4.83462668e-003
h = 6.75407064e-004
i = 2.56822394e-005
j = 1.99479295e-006
f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	6143.435	-1.5000	0.00007
1.0000	6496.305	0.9999	-0.00005
4.5000	7014.491	4.4999	-0.00006
8.0000	7561.572	7.9999	-0.00007
11.4999	8138.316	11.5000	0.00010
14.9999	8745.431	15.0000	0.00011
18.5000	9383.632	18.5000	-0.00003
21.9999	10053.604	21.9999	0.00002
25.5000	10756.019	25.4999	-0.00010
29.0000	11491.513	28.9999	-0.00006
32.5000	12260.701	32.5001	0.00008

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

Residual = instrument temperature - bath temperature

