

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1364  
CALIBRATION DATE: 02-Jul-14

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS:

g = 4.84849256e-003  
h = 6.78626727e-004  
i = 2.52807183e-005  
j = 1.86756514e-006  
f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	6219.649	-1.4999	0.00010
1.0000	6575.026	0.9999	-0.00007
4.5000	7096.754	4.4999	-0.00014
8.0000	7647.405	7.9999	-0.00007
11.5000	8227.730	11.5001	0.00011
15.0000	8838.438	15.0003	0.00027
18.5000	9480.152	18.5000	-0.00003
22.0000	10153.669	21.9999	-0.00015
25.5000	10859.652	25.4999	-0.00008
29.0000	11598.698	29.0000	-0.00002
32.5000	12371.420	32.5001	0.00008

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)

Residual = instrument temperature - bath temperature

