

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0273  
CALIBRATION DATE: 29-May-15

Glider APL TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS:

g = 4.39012322e-003  
h = 6.35262746e-004  
i = 2.50098000e-005  
j = 2.98578391e-006  
f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	3382.965	1.0000	-0.00003
4.5000	3658.859	4.5001	0.00005
15.0000	4583.318	14.9999	-0.00009
18.5000	4925.116	18.5001	0.00008
24.0000	5497.576	23.9999	-0.00006
29.0000	6056.556	29.0001	0.00008
32.5000	6470.179	32.5000	-0.00004

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

