

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0047  
CALIBRATION DATE: 17-Dec-11

WEBB GLIDER TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = 2.148368e-005  
a1 = 2.692035e-004  
a2 = -1.847745e-006  
a3 = 1.424564e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	677693.6	1.0001	0.0001
4.5000	580200.4	4.4999	-0.0001
15.0000	371141.5	15.0001	0.0001
18.5000	321742.8	18.5001	0.0001
24.0000	258564.5	23.9998	-0.0002
29.0000	213224.0	29.0001	0.0001
32.5000	186913.7	32.5000	-0.0000

Temperature ITS-90 =  $1 / \{ a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)] \} - 273.15$  (°C)

Residual = instrument temperature - bath temperature

