

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0047  
CALIBRATION DATE: 11-Nov-09

WEBB GLIDER TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -5.252633e-005  
a1 = 2.866473e-004  
a2 = -3.217447e-006  
a3 = 1.782847e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	677690.1	1.0000	0.0000
4.4999	580208.7	4.4998	-0.0001
14.9999	371146.7	15.0000	0.0001
18.5000	321745.8	18.5000	-0.0000
24.0000	258565.2	23.9998	-0.0002
29.0000	213224.4	29.0002	0.0002
32.5000	186916.8	32.4999	-0.0001

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

