

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1805
CALIBRATION DATE: 18-Aug-11

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.692489e-005
a1 = 2.765841e-004
a2 = -2.363827e-006
a3 = 1.575514e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	747744.5	-1.5001	0.0000
1.0000	668246.6	1.0000	-0.0000
4.5000	572577.3	4.4999	-0.0001
7.9999	492195.3	7.9999	0.0000
11.4999	424431.7	11.4999	0.0000
14.9999	367117.5	14.9999	0.0000
18.4999	318487.2	18.5000	0.0001
21.9999	277098.1	21.9999	-0.0000
25.5000	241763.9	25.4999	-0.0001
28.9999	211512.4	28.9998	-0.0001
32.5000	185535.1	32.5001	0.0001

Temperature ITS-90 = $1/\{a0 + a1[\ln(n)] + a2[\ln^2(n)] + a3[\ln^3(n)]\} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

