

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1805
CALIBRATION DATE: 15-Sep-11

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.262650e-005
a1 = 2.700957e-004
a2 = -2.191981e-006
a3 = 1.422596e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	934554.6	-1.5001	0.0000
0.9999	832423.4	0.9999	-0.0000
4.4999	710006.2	4.4999	0.0000
8.0000	607627.6	7.9999	-0.0001
11.4999	521710.3	11.4999	0.0000
14.9999	449361.3	14.9999	0.0000
18.4999	388237.5	18.4999	0.0000
21.9999	336431.9	21.9999	-0.0000
25.4999	292386.7	25.4999	-0.0000
28.9999	254825.4	28.9999	-0.0000
32.4999	222698.8	32.4999	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

