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SENSOR SERIAL NUMBER: 0122 CALIBRATION DATE: 08-Mar-18

SBE 45 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = -1.930067e-004 a1 = 3.008733e-004 a2 = -3.907139e-006 a3 = 1.900331e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
1.0000	788616.0	1.0000	0.0000
4.5000	676309.8	4.4999	-0.0001
15.0000	434802.2	15.0001	0.0001
18.5000	377558.6	18.5001	0.0001
24.0167	304018.6	24.0165	-0.0002
29.0001	251465.4	29.0003	0.0002
32.5000	220805.3	32.5000	-0.0000

n = Instrument Output (counts)

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

Residual ( $^{\circ}$ C) = instrument temperature - bath temperature

