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SENSOR SERIAL NUMBER: 3979 CALIBRATION DATE: 07-May-19

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = 2.212833e-005 a1 = 2.672313e-004 a2 = -1.613859e-006 a3 = 1.369058e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
1.0000	671143.2	1.0000	0.0000
4.5000	574961.7	4.4999	-0.0001
14.9999	368481.3	15.0000	0.0001
18.5000	319628.5	18.5000	-0.0000
24.0000	257099.9	24.0000	0.0000
29.0000	212193.5	28.9999	-0.0001
32.5000	186111.8	32.5001	0.0001

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

