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SENSOR SERIAL NUMBER: 1773 CALIBRATION DATE: 02-May-23 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = -4.220018e-005 a1 = 2.798182e-004 a2 = -2.596370e-006 a3 = 1.623574e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
-1.5000	778848.5	-1.5000	0.0000
1.0000	696023.7	0.9999	-0.0001
4.5000	596348.8	4.5000	-0.0000
8.0000	512609.3	8.0000	-0.0000
11.5000	442018.2	11.5000	0.0000
15.0000	382316.6	15.0001	0.0001
18.5000	331664.1	18.5000	0.0000
22.0000	288555.7	22.0000	-0.0000
25.5000	251756.7	25.4999	-0.0001
29.0000	220250.6	29.0000	-0.0000
32.5000	193199.2	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

