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SENSOR SERIAL NUMBER: 1805 CALIBRATION DATE: 30-Jun-23 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 7.210799e-006 a1 = 2.713328e-004 a2 = -2.285967e-006 a3 = 1.446356e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
-1.5000	934543.6	-1.5000	0.0000
1.0000	832415.6	1.0000	-0.0000
4.5000	709999.7	4.5000	-0.0000
8.0000	607622.3	8.0000	-0.0000
11.5000	521703.7	11.5000	0.0000
15.0000	449354.1	15.0001	0.0001
18.5000	388231.7	18.5000	0.0000
22.0000	336426.5	22.0000	0.0000
25.5000	292382.3	25.4999	-0.0001
29.0000	254822.3	28.9999	-0.0001
32.5000	222695.3	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

