Sea-Bird Scientific
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SENSOR SERIAL NUMBER: 4139
CALIBRATION DATE: 02-Apr-24

SBE 16plus TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:
a0 = 1.280654e-003
a1 = 2.541218e-004
a2 = 7.619189e-007
a3 = 1.220921e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	632674.800	1.0000	-0.0000
4.5000	562067.400	4.5001	0.0001
15.0000	386459.273	14.9999	-0.0001
18.5000	339228.000	18.5000	0.0000
24.0000	275071.800	23.9998	-0.0002
29.0000	226208.200	29.0003	0.0003
32.5000	196695.273	32.4999	-0.0001

n = Instrument Output (counts)

$MV = (n - 524288) / 1.6e{+}007$

$R = (MV * 2.900e{+}009 + 1.024e{+}008) / (2.048e{+}004 - MV * 2.0e{+}005)$

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

Residual (°C) = instrument temperature - bath temperature

Date, Offset (mdeg C)
● 30-Apr-19   0.42
▲ 02-Apr-24 -0.00

POST CRUISE
CALIBRATION

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