SEA·BIRD
SCIENTIFIC

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SENSOR SERIAL NUMBER: 50217
CALIBRATION DATE: 16-Jan-21

SBE 16plus V2 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:
a0 = 1.254432e-003
a1 = 2.749372e-004
a2 = -1.084553e-006
a3 = 1.767216e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	554691.800	0.9999	-0.0001
4.4999	489408.600	4.5000	0.0001
15.0000	330176.600	15.0000	-0.0000
18.5000	288098.900	18.4999	-0.0001
24.0000	231434.200	23.9999	-0.0001
29.0000	188655.100	29.0003	0.0003
32.5001	162969.800	32.4999	-0.0002

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)
● 05-May-17   -0.40
▲ 16-Jan-21   -0.00

POST CRUISE CALIBRATION

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