



Sea-Bird Scientific
 13431 NE 20th Street
 Bellevue, WA 98005
 USA

+1 425-643-9866
 seabird@seabird.com
 www.seabird.com

SENSOR SERIAL NUMBER: 5398
 CALIBRATION DATE: 08-Jan-18

SBE 41cp TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 3.229388e-005
 a1 = 2.773137e-004
 a2 = -2.702742e-006
 a3 = 1.579083e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	670790.4	1.0000	0.0000
4.5000	572275.8	4.5000	-0.0000
15.0000	362427.0	15.0000	0.0000
18.5000	313194.3	18.5000	0.0000
23.9940	250543.6	23.9940	0.0000
29.0000	205697.9	28.9999	-0.0001
32.5000	179801.9	32.5001	0.0001

n = Instrument Output (counts)

$$\text{Temperature ITS-90 (°C)} = 1 / \{ a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)] \} - 273.15$$

Residual (°C) = instrument temperature - bath temperature

