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SENSOR SERIAL NUMBER: 0289  
 CALIBRATION DATE: 11-Feb-24

SBE 45 TEMPERATURE CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 2.313543e-005  
 a1 = 2.825094e-004  
 a2 = -3.117427e-006  
 a3 = 1.690553e-007

| BATH TEMP<br>(° C) | INSTRUMENT<br>OUTPUT (counts) | INST TEMP<br>(° C) | RESIDUAL<br>(° C) |
|--------------------|-------------------------------|--------------------|-------------------|
| 1.0000             | 641770.2                      | 1.0000             | -0.0000           |
| 4.5000             | 547443.8                      | 4.5000             | -0.0000           |
| 15.0000            | 346566.1                      | 15.0001            | 0.0001            |
| 18.5000            | 299454.7                      | 18.4998            | -0.0002           |
| 24.0000            | 239447.8                      | 24.0001            | 0.0001            |
| 29.0000            | 196603.7                      | 29.0000            | 0.0000            |
| 32.5000            | 171835.7                      | 32.5000            | -0.0000           |

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

