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SENSOR SERIAL NUMBER: 5147  
 CALIBRATION DATE: 17-Jun-21

SBE 3 TEMPERATURE CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.40618496e-003  
 h = 6.44554574e-004  
 i = 2.33423502e-005  
 j = 2.24354693e-006  
 f0 = 1000.0

| BATH TEMP<br>(° C) | INSTRUMENT<br>OUTPUT (Hz) | INST TEMP<br>(° C) | RESIDUAL<br>(° C) |
|--------------------|---------------------------|--------------------|-------------------|
| -1.5000            | 3217.742                  | -1.5000            | 0.00002           |
| 1.0000             | 3403.431                  | 1.0000             | -0.00003          |
| 4.5000             | 3676.249                  | 4.5000             | -0.00000          |
| 8.0000             | 3964.433                  | 8.0000             | -0.00002          |
| 11.5000            | 4268.400                  | 11.5000            | 0.00001           |
| 15.0000            | 4588.545                  | 15.0000            | 0.00003           |
| 18.5000            | 4925.251                  | 18.5000            | 0.00002           |
| 22.0000            | 5278.888                  | 22.0000            | -0.00005          |
| 25.5000            | 5649.834                  | 25.5000            | 0.00002           |
| 29.0000            | 6038.404                  | 29.0000            | -0.00004          |
| 32.5000            | 6444.957                  | 32.5000            | 0.00003           |

f = Instrument Output (Hz)

$$\text{Temperature ITS-90 (°C)} = 1 / \{g + h[\ln(f_0 / f)] + i[\ln^2(f_0 / f)] + j[\ln^3(f_0 / f)]\} - 273.15$$

$$\text{Residual (°C)} = \text{instrument temperature} - \text{bath temperature}$$

