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SENSOR SERIAL NUMBER: 0369  
CALIBRATION DATE: 06-Mar-18

SBE 4 CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -4.28680021e+000  
h = 5.37894483e-001  
i = -2.49638715e-003  
j = 1.65811500e-004

CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

| BATH TEMP<br>(° C) | BATH SAL<br>(PSU) | BATH COND<br>(S/m) | INSTRUMENT<br>OUTPUT (kHz) | INSTRUMENT<br>COND (S/m) | RESIDUAL<br>(S/m) |
|--------------------|-------------------|--------------------|----------------------------|--------------------------|-------------------|
| 0.0000             | 0.0000            | 0.00000            | 2.83826                    | 0.00000                  | 0.00000           |
| -1.0000            | 34.5904           | 2.78807            | 7.80154                    | 2.78806                  | -0.00001          |
| 1.0000             | 34.5900           | 2.95846            | 8.00536                    | 2.95847                  | 0.00001           |
| 15.0000            | 34.5889           | 4.24666            | 9.40058                    | 4.24664                  | -0.00001          |
| 18.5000            | 34.5869           | 4.59121            | 9.73879                    | 4.59122                  | 0.00001           |
| 29.0001            | 34.5789           | 5.66781            | 10.72364                   | 5.66780                  | -0.00000          |
| 32.5000            | 34.5630           | 6.03680            | 11.03980                   | 6.03680                  | 0.00000           |

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars);  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Conductivity (S/m) =  $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

