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SENSOR SERIAL NUMBER: 0352  
CALIBRATION DATE: 30-Jan-22

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

COEFFICIENTS:

g = -1.00299929e+001  
h = 1.10737384e+000  
i = -2.82601630e-003  
j = 2.81429363e-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) |
|--------------------|-------------------|--------------------|----------------------------|--------------------------|-------------------|
| 22.0000            | 0.0000            | 0.00000            | 3.01770                    | 0.00000                  | 0.00000           |
| 1.0000             | 34.8109           | 2.97555            | 6.01252                    | 2.97555                  | -0.00000          |
| 4.5000             | 34.7913           | 3.28260            | 6.23985                    | 3.28260                  | 0.00000           |
| 15.0000            | 34.7500           | 4.26434            | 6.91597                    | 4.26434                  | -0.00000          |
| 18.5000            | 34.7412           | 4.60948            | 7.13818                    | 4.60947                  | -0.00001          |
| 23.9999            | 34.7315           | 5.16739            | 7.48313                    | 5.16740                  | 0.00001           |
| 29.0000            | 34.7252           | 5.68907            | 7.79149                    | 5.68908                  | 0.00000           |
| 32.5000            | 34.7194           | 6.06100            | 8.00386                    | 6.06100                  | -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

