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SENSOR SERIAL NUMBER: 0351  
CALIBRATION DATE: 26-Jan-22

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

#### COEFFICIENTS:

g = -1.00121690e+001  
h = 1.13035342e+000  
i = -2.98960359e-003  
j = 3.01417085e-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            | 2.98441                    | 0.00000                  | 0.00000           |
| 1.0916             | 34.6174           | 2.96848            | 5.94491                    | 2.96850                  | 0.00002           |
| 4.5000             | 34.5987           | 3.26621            | 6.16342                    | 3.26619                  | -0.00002          |
| 15.0000            | 34.5574           | 4.24320            | 6.83084                    | 4.24319                  | -0.00001          |
| 18.5000            | 34.5486           | 4.58667            | 7.05021                    | 4.58668                  | 0.00001           |
| 24.0000            | 34.5385           | 5.14185            | 7.39069                    | 5.14187                  | 0.00002           |
| 29.0000            | 34.5325           | 5.66104            | 7.69509                    | 5.66103                  | -0.00002          |
| 32.5001            | 34.5279           | 6.03137            | 7.90485                    | 6.03137                  | 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

