## Sampling guidelines for onboard dynamic correction

٠

Sampling frequency ≥ 1Hz	Maintain ascent-rate 5 < x < 25 cm/s
short-term dynamic correction are not applied at slower rates see <u>Dynamic corrections for the RBRargo CTD 2000dbar</u> report	<ul> <li>there is no "optimal" ascent rate for the dynamic corrections.</li> <li>Ascent rate is calculated in real time and the dynamic corrections are tuned accordingly.</li> <li>An ascent rate of 5 &lt; x &lt; 25 cm/s guarantees the dynamic corrections are well-characterized in the lab.</li> </ul>
<ul> <li>Transmit P, T, Tcond, S, and Scor</li> <li>S is still required to populate PSAL with QC = 1</li> <li>make sure to properly identify S vs Scor: it is not necessarily evident!</li> </ul>	Evaluate corrections' efficacy         The perfect scenario is:         • 1Hz data         • Sharp thermocline followed by homogeneous layer (e.g.,mixed layer, thermo-haline staircase)         • Transmits T, P, S, Scor, Tcond (Tcond is needed to go from S to Scor)         • High-frequency profiles (e.g., daily)

## **Data processing guidelines for DACs**

