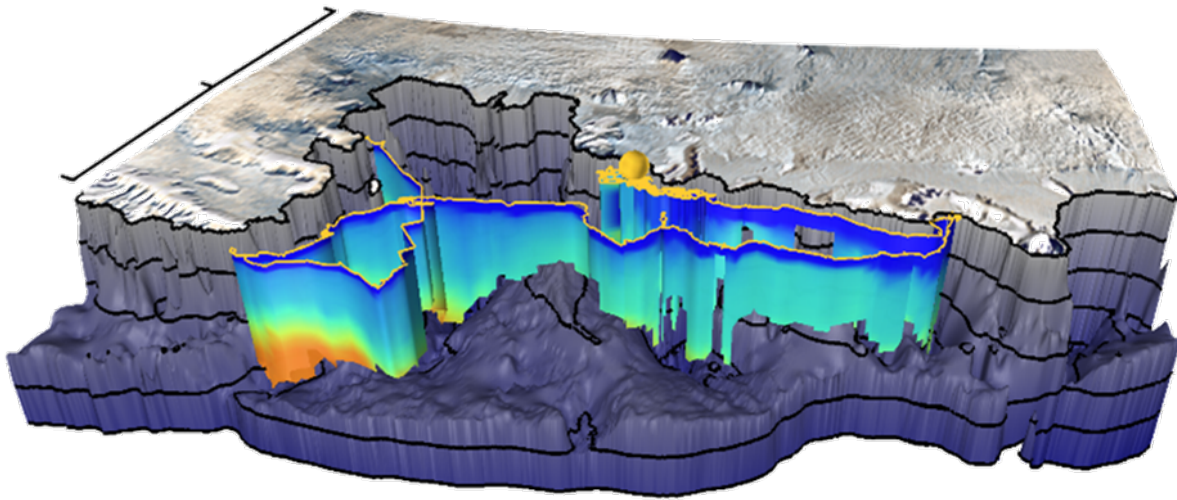# Argos CTD tag

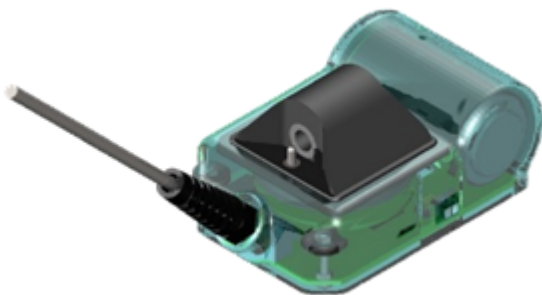### Worldwide oceanographic quality CTD upcasts

Southern elephant seal diving around Pine Island Glacier, Antarctica, relaying salinity profiles.

Track and salinity data: CTD tag relayed via Argos; M. Fedak, NERC iSTAR Programme.
Visualisation: SMRU-IG MamVisAD software. Graticule ticks at one degree latitude.
Bathymetry data (exaggerated): IBCSO V1. Imagery data: NASA Blue Marble.

Southern elephant seal with CTD tag

- Oceanographic quality temperature a salinity profiles (4- 12 profiles per day), which optionally can then be automatically submitted to the GTS in near real-time

- 4-point dive profiles using broken-stick approximation

- 16-point CTD profiles, comprising:
  - o 8 fixed points
  - o max/min depth
  - o 6 broken-stick points

- Up to 50,000 full length Argos data transmissions

Specifications

Depth rating (m)		2000
Pressure (dbar)	Range	0 to 2000
	Accuracy	2 ± 0.01% / K
	Resolution	0.05
Temperature (°C)	Range	-5 to 35
	Accuracy	± 0.005
	Resolution	0.001
Salinity (PSU)	Range	0 to 50
	Accuracy	± 0.01
	Resolution	0.002
Wet/dry switch	From ocean to fresh water	
Location	Argos, with option for additional Fastloc® GPS	
Longevity	Up to 1 year using D-cell with 50,000 Argos tx	
Max dimensions (mm)	100 x 70 x 60	
Weight (g)	580 (D-cell), 430 (C-cell)	
Data Storage	Full dive history archived on tag	