

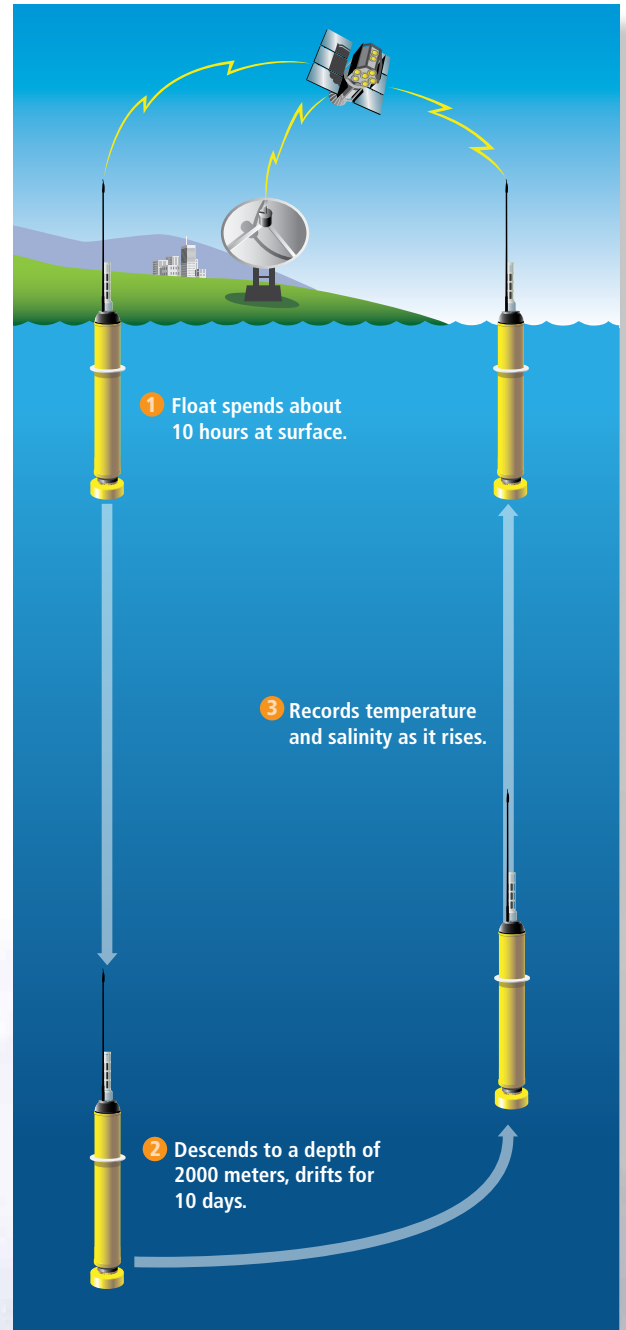
APEX™

AUTONOMOUS PROFILING EXPLORER

The Leader in Autonomous Ocean Profiling

APEX (Autonomous Profiling Explorer) is an autonomous neutrally buoyant drifter. It uses a variable buoyancy engine to surface on a programmed schedule, tracing basin-scale circulation and returning profile measurements via satellite. APEX has active depth control, and carries state of the art salinity sensors.

There are over 6000 units presently operating worldwide.



INNOVATIVE UNDERSEA SYSTEMS TECHNOLOGY



**TELEDYNE
WEBB RESEARCH**
A Teledyne Technologies Company

APEX™ Profiling Floats

Founded in 1982 Teledyne Webb Research (TWR) has produced over 5500 APEX floats (including ALACE and PALACE). Used in support of the international ARGO program by 19 nations, 67% of the global Argo fleet are APEX. This experience is what gives TWR its reputation for the best quality product and dependable delivery. Teledyne Webb Research's reputation for custom engineering solutions for data collection continue to expand the use of these floats in innovative ways.

- Field proven. Over 6000 APEX (Including ALACE and PALACE) profilers have been delivered to 19 nations
- Sensor options: CTD, Oxygen, Fluorometer, Turbidity
- Routinely deployed from C130 aircraft and merchant vessels (VOS)
- ARGOS or Iridium Telemetry available

SENSOR OPTIONS:

- Pumped CTD – Seabird Model 41
- Oxygen – Seabird IDO
- Oxygen – Aanderaa Optode 3830
- Acoustic Receiver – RAFOS
- Fluorescence, Turbidity – Wet Labs FLNTU

OPTIONAL APEX FEATURES:

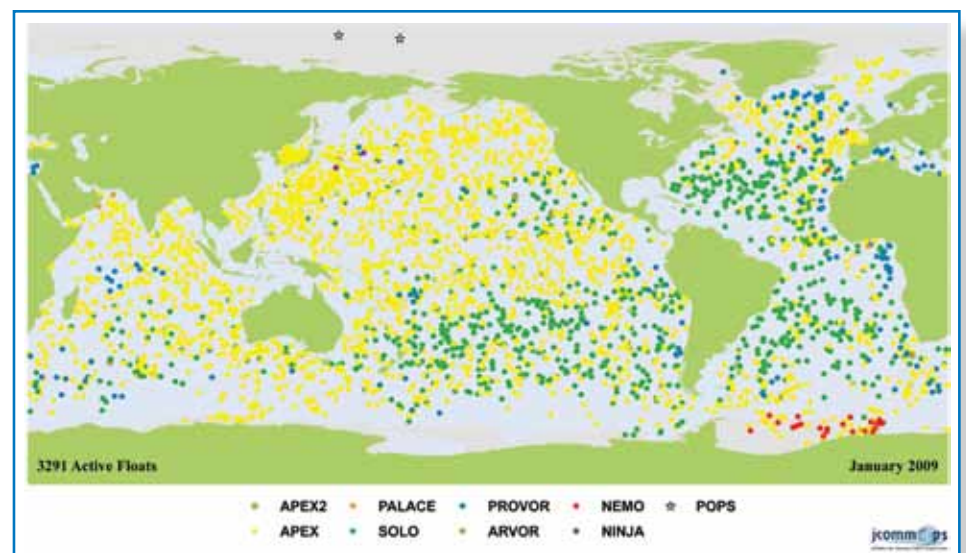
- Automatic Depth Control: Isobaric, Isopycnal or Isothermal tracking
- Surface Ice Detection
- Seasonally variable sampling modes
- Automatic Pressure Activation
- First Profile returned within 24 hours of launch

General Specifications

Maximum depth	2000m
Endurance	4 years, 150 ascents (nominal)
Mass	25 kg
Dimensions	16.5 cm (16.5 in) diameter x 127 cm (50 in) long (Not including 69 cm [27.1 in] antenna)

KEY FEATURES OF APEX PROFILING FLOATS

- Provides autonomous profiles from depths to 2000 m
- Over 5500 floats delivered to customers in 19 nations
- Comprises 67% of global ARGO fleet.
- Provided ready to deploy, with automated self-test software
- Telemetry options: ARGOS and IRIDIUM



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