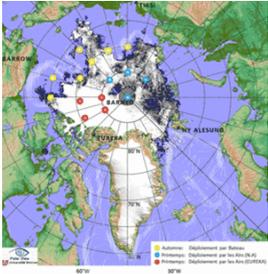


## POLAR AREAS

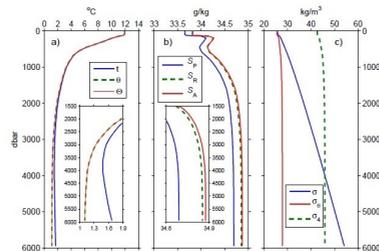


Sliding along a cable hanged under an Ice tether platform, **PROVOR SPI** enables to obtain under-ice oceanographic data in real time, up to 800 meters depth. **PROVOR ICE** is fitted with ISA and mechanical protection against shock with ice.



## INSTRUMENTS >> PROVOR SPI

## SEAWATER DENSITY MEASUREMENT: NOSS SENSOR



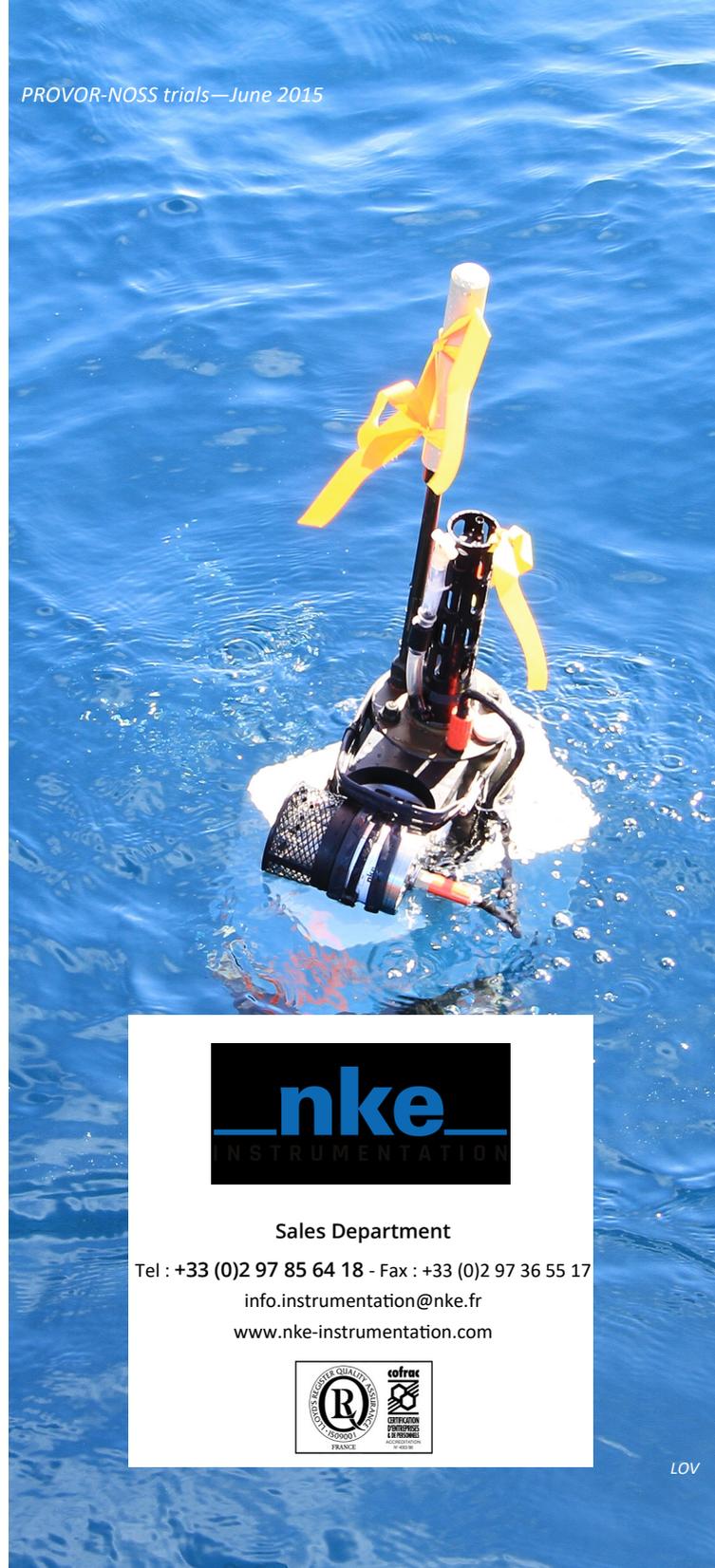
Pawlowicz, R. (2013) Key Physical Variables in the Ocean: Temperature, Salinity, and Density. Nature Education Knowledge 4(4):13



Since several years, nke Instrumentation develops a new sensor (**NOSS**) with scientific partners, to acquire directly seawater index and compute its density and absolute salinity. **NOSS** sensor has been qualified and evaluated successfully at sea on a profiling float (**PROVOR-NOSS**).

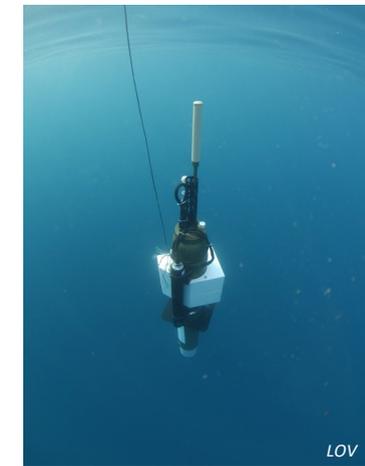
See **PROVOR -NOSS** picture on the next page.

PROVOR-NOSS trials—June 2015



# PROFILING FLOATS

nke Instrumentation has extensive experience to design and manufacture useful equipments for oceanographers studies. A technical team is specialized in profiling floats development. nke Instrumentation offers a complete range of profiling floats for many oceanographic applications.



Sales Department

Tel : +33 (0)2 97 85 64 18 - Fax : +33 (0)2 97 36 55 17

info.instrumentation@nke.fr

www.nke-instrumentation.com

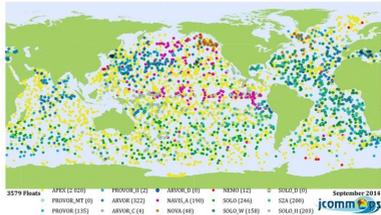


LOV





## CORE ARGO MISSION



ARGO, a revolution for the international oceanographic community

Since 2001, thanks to its professional team expert for the development of new profilers technologies, nke Instrumentation assists the ARGO community to develop and maintain the network, in order to answer to new coming scientific, economic and societal issues.

**PROVOR/ARVOR:** Profiling floats for the ARGO international network, and a helpful technology to monitor interocean exchanges.

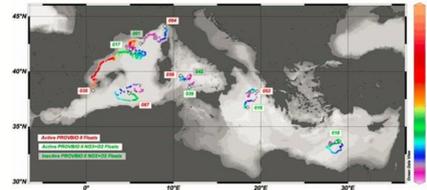
**ARVOR I:** A new step for ARGO applications to marginal seas. The new generation of ARVOR floats have been fitted since 2010 by nke with a bi-directional Iridium communication, which considerably improved the duration of data transmission from the float on the surface.

### INSTRUMENTS

- >> ARVOR L
- >> ARVOR
- >> ARVOR I
- >> PROVOR CTS3



## BIOGEOCHEMICAL

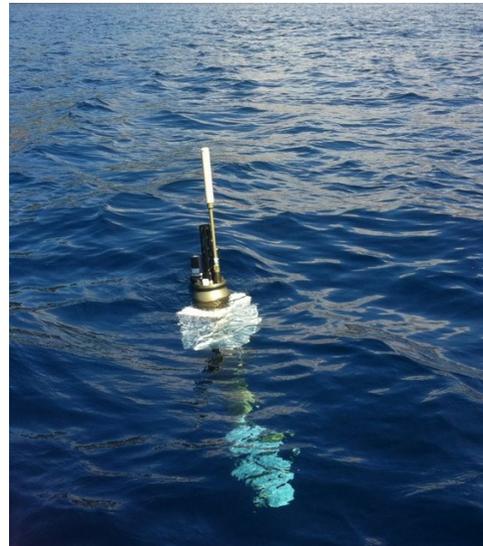


nke Instrumentation offers a powerful **PROVOR** version dedicated to profiling floats with several biogeochemical sensors. The particular buoyancy features of the **PROVOR**: important embedded energy, an optimized iridium rudics protocol, and a very flexible firmware enable to obtain a unique platform for multi sensors applications. Developments have been done in partnership with LOV (Laboratoire Oceanographique de Villefranche) and Ifremer, during the Remocean and Naos project.

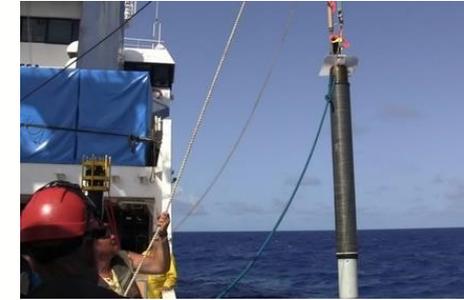


### INSTRUMENTS

- >> PROVOR CTS5
- >> PROVOR CTS4
- >> PROVOR CTS3 DO / DO I



## DEEP SEA



A new profiling float was finalized with Ifremer within the framework of the project EquipEx NAOS. By diving up to 4000 meters deep, this new generation of profiling float allows to push back the limits of the observation of the oceans, and to supply new deep in situ data.

- INSTRUMENTS
- >> DEEP ARVOR



## COASTAL AREAS - ACOUSTIC SURVEY



Coastal profiling floats to acquire and to transmit oceanographic data on continental shelves: **ARVOR C** enables to realize virtual mooring at optimized cost; **PROVOR SPI**, sliding along a cable above a fixed buoy. **PROVOR AC** with hydrophone and data processing to transmit acoustic noise spectrum.

- INSTRUMENTS
- >> ARVOR C
- >> PROVOR SPI / AC