

NOVA float

By MetOcean

Denis Gilbert, 2012-03-21

Products

Buoys and Profilers

Buoys

Profilers

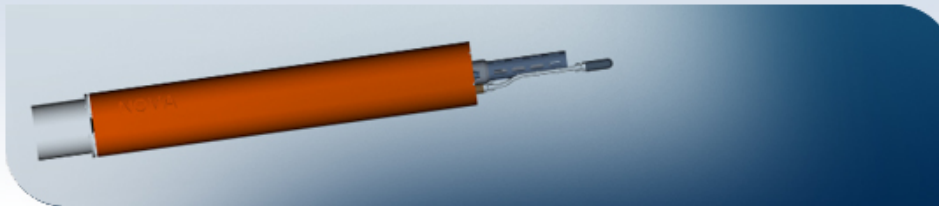
• NOVA

Polar Solutions

Beacons & Flashers

Tracking and Locating

Naval Systems



IRIDIUM Profiling Float

Products

Buoys and Profilers > Profilers

• NOVA

The NOVA (New generation Oceanographic Variable-buoyancy Autonomous) is an innovative subsurface profiling float. NOVA's buoyancy control system is a closed system that requires no maintenance or service. A high-pressure pump is used exclusively to increase buoyancy by transferring fluid to an external bladder. Subsequently, a manifold valve is responsible for achieving negative buoyancy by decreasing the volume of the external bladder; the pressure differential between the internal and external bladders provides the necessary displacement for numerous ocean applications.

NOVA is extremely compact, lightweight (50 lbs), and does not require ballasting prior to deployment. NOVA is equipped with Bluetooth technology, which enables the end-user to communicate via wireless with the float before deployment, and to program duty cycles as the project requires. The various features of NOVA allow for effortless deployments from any



NOVA Iridium Profiling Float
[2012.pdf](#)





NOVA float by MetOcean

- 3 floats deployed on 1-day cycles in the Caribbean Sea (near Cayman Islands)
- Argo Canada purchased 27 NOVA floats, starting from serial number 16
- We launched 1 float on February 25 along line P in northeast Pacific
- GPS not functioning, must therefore rely on Iridium positioning
- T-S-P data from first 3 profiles look good.

NOVA float data management

- There are many data management issues related to the introduction of a new float for which we have to propose technical parameter names before upload to GDAC
- Mathieu Ouellet has been in touch with Ann Thresher about technical parameter naming conventions
- LARGE EXTRA workload on Mathieu Ouellet given Anh Tran's maternity leave

Homemade cradle

