

NAMMU The Next Generation LOBSTER

NAMMU, The Next Generation LOBSTER, is a Broadband OBS-System in a new design with many unique features:

In the robust and shock resistant syntactic foam shell are integrated a titanium pressure tube of 210mm diameter with broadband seismometer “Trillium Compact 120 sec”, data logger “6D6” and battery pack (see picture right), as well as titanium releaser KUMQuat, hydrophone and head buoy. Flasher, radio beacon and flag for localization are mounted outside.

This configuration allows recording of one year. For 3-year recording additional batteries are added with a power-backpack for the OBS. Hence the OBS can also be deployed in extremely remote areas with access every couple of years only.

The utmost small size of half of a pallet simplifies the handling and enables to stack three of them in two rows on one pallet.

Anchor and float are asymmetrically designed: NAMMU descends to the seafloor and stays there for data recording in horizontal position but ascends to the water surface in vertical position.

Thanks to the new Data Logger “6D6 a couple of unique features are possible – in short:

- modular system with multiple channels: starting with 4 seismic channels, one can freely add additional channels for different purposes
- a GPS-unit and also AIS can be incorporated
- a CSAC (Chip Scale Atomic Clock) is available
- it is possible to swap the storage device from outside the housing while recording



NAMMU front view



Data Logger, battery pack and seismometer in titanium pressure tube



NAMMU top view



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Technical Data

Size :	half a pallet: 800mm x 600mm x 600mm
Weight:	155kg without anchor 205kg with anchor, stackable
Operation depth:	6000m
Frame:	titanium, flexible buoyancy from syntactic foam
Power supply:	13,7 month recording: 80 Lithium cells 36,0 month recording: 270 Lithium cells
Data Logger :	Seismic Data Logger „6D6“
Releaser:	K/MT 562 KUMQuat, titanium
Hydrophone:	HTI-04-PCA/ULF
Seismometer:	Broadband Seismometer Nanometrics „Trillium Compact 120“, or Geophone
Positioning:	radio beacon, flasher, signal flag AIS as an option
Anchor:	steel anchor

In the course of permanent further development of the OBS-System modifications are subject to change without prior notice.



“6D6” fixed to the cover



Size of half a pallet



Seismic Data Logger “6D6”