

AsterX and *IdefX*, the two Ifremer AUVs, are medium sized systems for coastal and deep water survey.

— Missions

- Bottom-following or water column survey for multiple scientific purposes,
- Multi payload survey, high instrumental modularity,
- Complementary vehicle on cruises with Rovs and manned submersibles.

— Track record

- 40 cruises
- 308 dives
- 7900km covered
- Launched from 8 vessels of 27m to 100m long
- Safe launch and recovery system with Caliste floating cage

Autonomous and versatile vehicles for site surveys

asterx idefx



© Ifremer

— Technical Characteristics

- Length** 4,5m
- Weight** 800kg
- Depth** 3000m (2850m operational)
- Speed** 2 to 6kts, 3kts optimal
- Operational team** 3 people
- Recovery** Surface floating unassisted cage Caliste
- Transport** One standard 20'' container
- Navigation** Inertial (Phins-Ixsea & WH300-RDI), USBL
- Autonomy** Typical 12h or 60km with 250W payload
R&D: 300km with H₂O₂ fuel cell

— Scientific payloads

- **Multibeam echosounder**
EM2000, EM2040 (*Kongsberg*)
- **Sub-bottom echosounder**
ECHOES 10000 (*Ixsea*)
- **Fishery sounders**
EK60 - 70kHz downward,
200kHz upward (*Kongsberg*)
- **Environment**
ISUS V3 UV-spectrometer (*Satalantic*),
CTD SBE49/19+ (*Seabird*)

