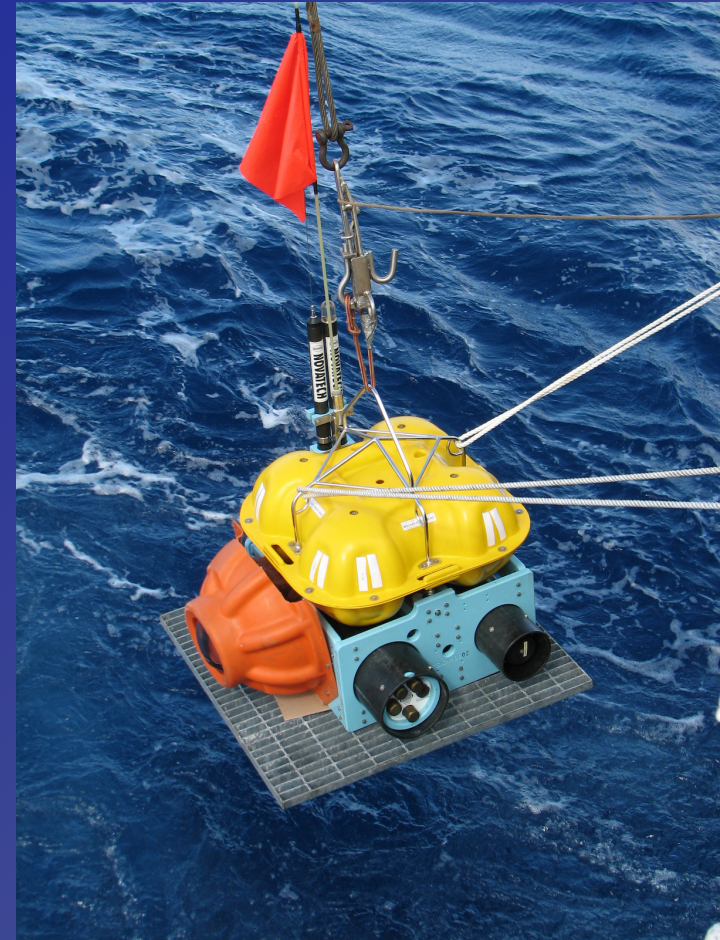
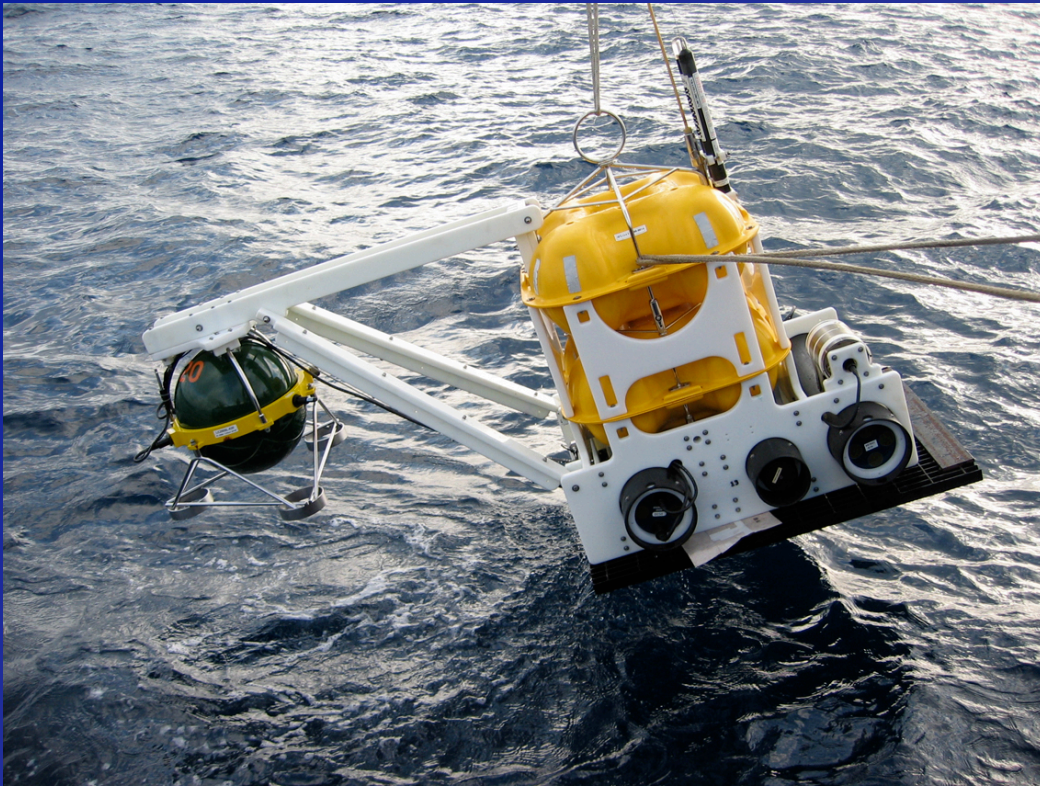


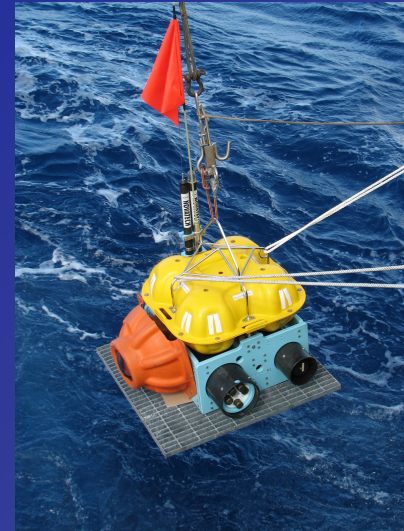
# The INSU-IPGP OBS Park

<http://parc-obs.insu.cnrs.fr>

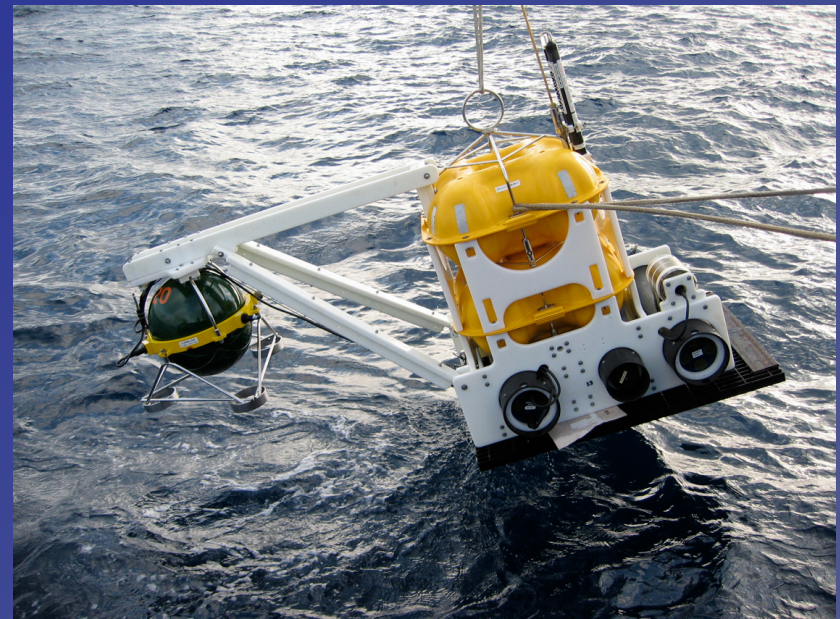


# Instruments

- 17 short-period OBSs
  - 3-component 4.5 Hz geophone (Sercel L-28)
  - HiTech Hydrophone
  - Up to 14 months deployment



- 7 broadband OBSs
  - 3-component 240-second seismometer (Trillium 240)
  - Differential pressure gauge
  - Up to 13 months deployment



# Overview

- Available to all French researchers
  - OBSs are assigned based on scientific merit based by an exterior body
  - Data and metadata are saved to FDSN-compatible data center (RESIF)
- Long-deployment instruments
  - 12-14 month deployments possible
- True broadband OBSs (Trillium 240)

# History

- 2001: Facility created
  - 2002: Bought 20 short-period and 3 broad-band OBSs from Scripps Institution of Oceanography
  - 2003: SPOBSs received
  - 2006: BBOBSs received
- 2005: First scientific deployments
- 2007: Upgraded short-period OBSs to 4 components
- 2012: Finished building 6 new BBOBSs
- 2008-2014: Lost 2.5 SPOBSs
- 2017: Lost two BBOBSs

# Missions

Annee	Experience	Region	Resp	OBS	BBOBS	Duration	Commentaires
2004	TestOBS	Mediterranee	Crawford	20	---	6 j	Verification
	SainteOBS	Antilles	Bazin	6	---	41 j	Reponse rapide
2005	SISMOMAR	MAR	Singh	43	---	15-28 j	Sismique active
2006	ENCENS II	Golfe d'Aden	Leroy	20	---	9 j	Sismique active, Avec Parc GeoAzur
	MD 156	Sumatra	Singh	40	----	16 j	Sismique active
2007	SismAntilles II	Antilles	Hirn/Laigle	23	---	86 j	Avec parc GeoAzur
	BBMOMAR 1	MAR	Crawford	4	1	1 an	
	MartOBS	Martinique	Bazin	6	---	3 mois	Reponse rapide
2008	SO198	Sumatra	Singh	38	6	1 mois	
	Rats-ACTaiwan	Taiwan	Lallemand	12	0?	3 mois	
	BBMOMAR 2	MAR	Crawford	4	1	1 an	MOMAR
2009	Bathyluck	MAR	Cannat	4	1	1 an	MOMAR
2010	SWIR	SWIR	Chen	15	2	15 j	Sismique active
2012	RHUM-RUM	Ocean Indien	Barruol	0	9	1 an	Avec Parc DEPAS (All.)
2013	Mexique	Golfe Californie	Geoffroy	3	0	6 mois	
2014	SismoSmooth	SWIR	Leroy, Cannat	9	2	45 j	Sismique active et passive, compliance
2010-14	MoMarSat	MAR	Cannat	20	0	1 an	Missions annuels, 4 OBS/an

# Future

- All broadband or wideband
- Combine with GeoAzur for national park