

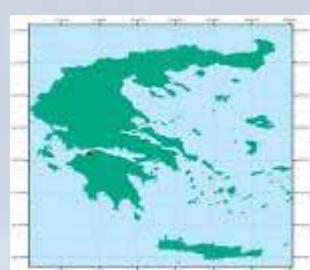
....HYPOX partner institutions

Partner 13:
UPAT (Patras, Greece)



....HYPOX partner institutions: UPAT

Department of Geology
University of Patras
Laboratory of Marine Geology &
Physical Oceanography (M.G.P.O)
www.gaiaocean.geology.upatras.gr/marine_geology



....HYPOX partner institutions: UPAT

The Laboratory of Marine Geology & Physical Oceanography (M.G.P.O) in brief (1/2)

The aims of the Laboratory:

to train undergraduate and postgraduate students in Marine Sciences

to carry out fundamental research in the fields of Marine Geology, Physical Oceanography, Palaeoclimatology/Palaeoceanography and Oceanographical Archaeology

to offer high quality scientific and engineering service and consultation to Governmental Agencies, Local Authorities and Private Industry

(harbors, pipelines, u/w power and telecommunication cables, e.t.c)

HYPOX-related groups and role in HYPOX

I.N.G.V

> field studies (Amvrakikos Gulf, Aetoliko Lagoon, Katakolon bay-WP7) and WP1,WP4

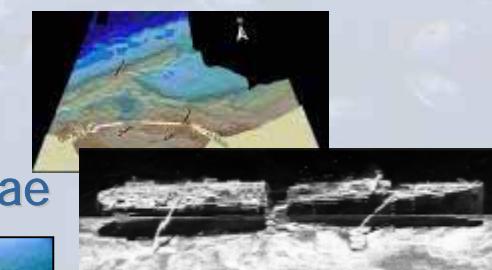
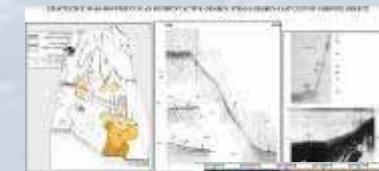
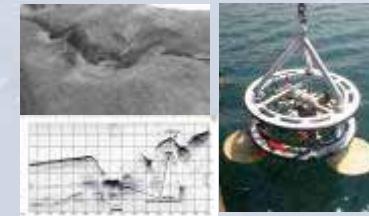


....HYPOX partner institutions: UPAT

The Laboratory of Marine Geology & Physical Oceanography (M.G.P.O) in brief (2/2)

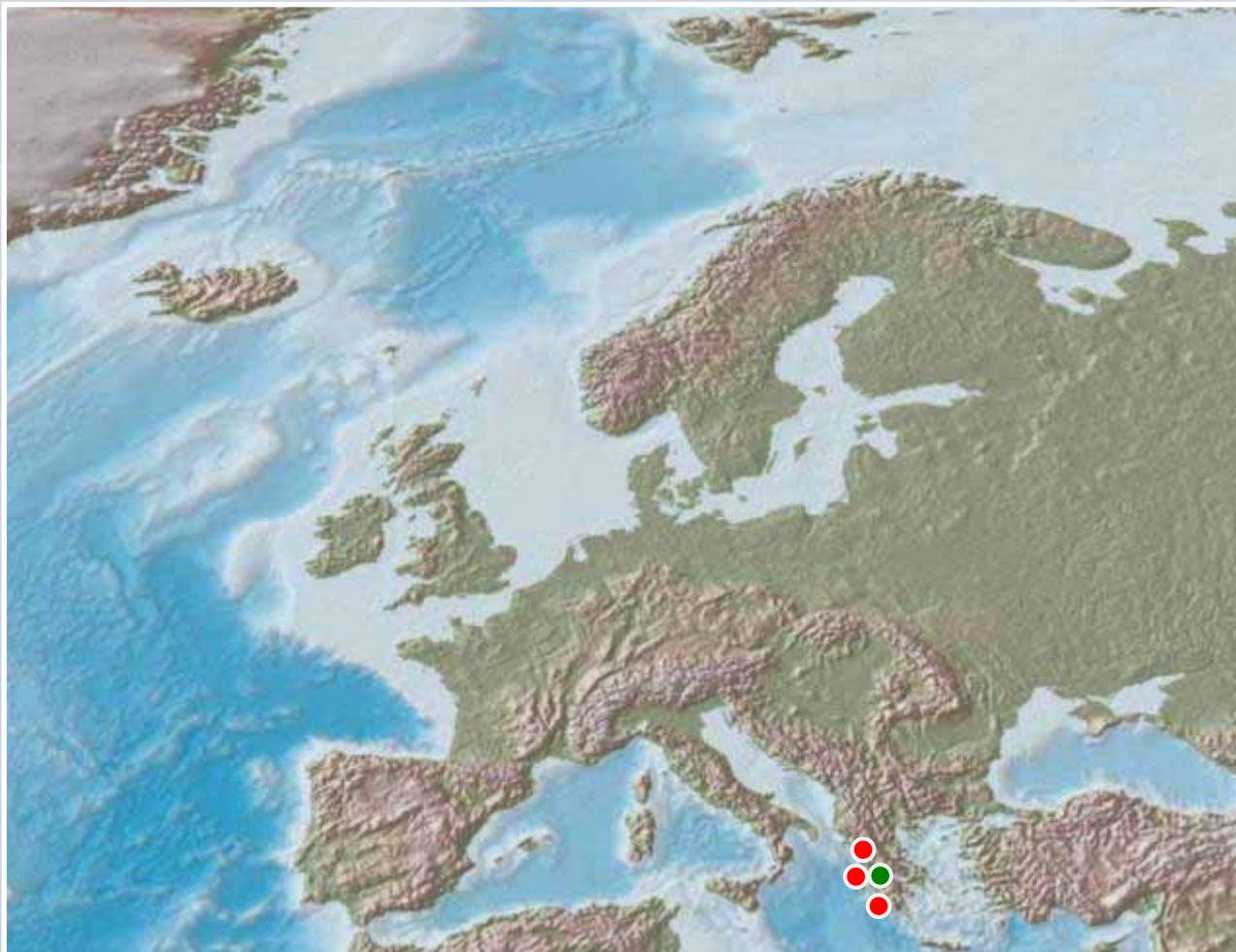
The Laboratory has been involved in a wide range of scientific topics:

- from gas charged sediments to pockmarks monitoring
- from submarine landslides to submarine faults and tsunamis
- from heavy metals and NORM/Cs in marine sediments to marine litter
- from palaeoceanography to reconstruction of coastal and underwater archaeological sites
- Habitat mapping from *Posidonia oceanica* to coralline algae formations



....HYPOX partner institutions: UPAT

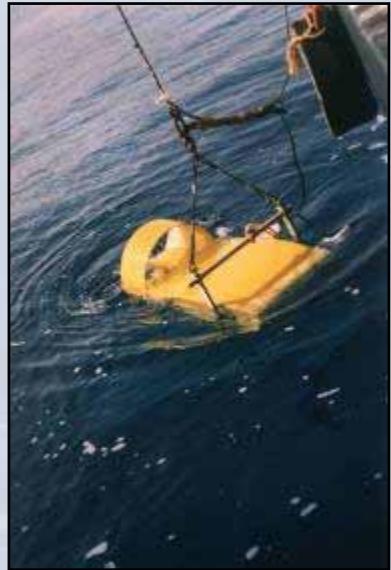
Institute & main study sites location



Laboratory of Marine
Geology & Physical
Oceanography
(UPAT)

Amvrakikos Gulf
Aetoliko Lagoon
Katakolo Bay

....HYPOX partner institutions: UPAT Infrastructure (1/4)



3.5 kHz ORE Pinger
with 4 and 9
transducers



S.I.G. Hydrophones:
1 channel, 4 cells.
1 channel, 8 cells
2 channels, 4, 8, 12 cells

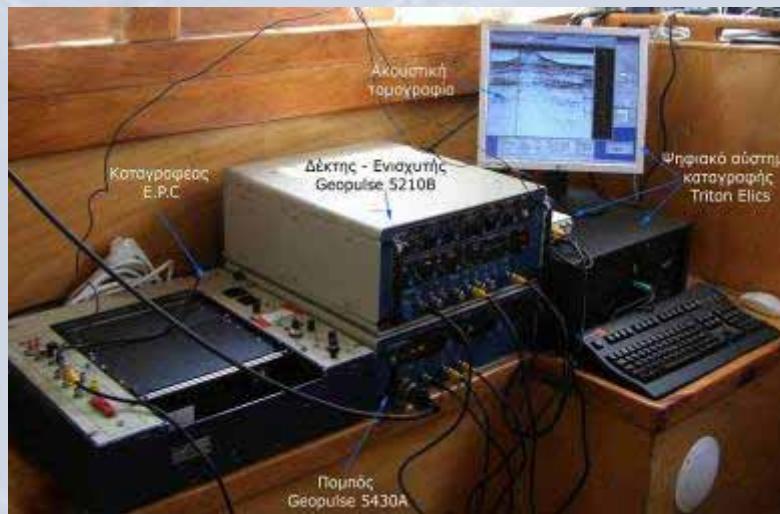


S.I.G. Sparker
2000A και 2000B
Geopulse Receiver
Triton Elics Digital
Acquisition system

hypox₂X



SUBBOTOM PROFILER 3.5kHz Pinger, O.R.E.-Geopulse SPARKER (SIG Sparker System 2000AB)



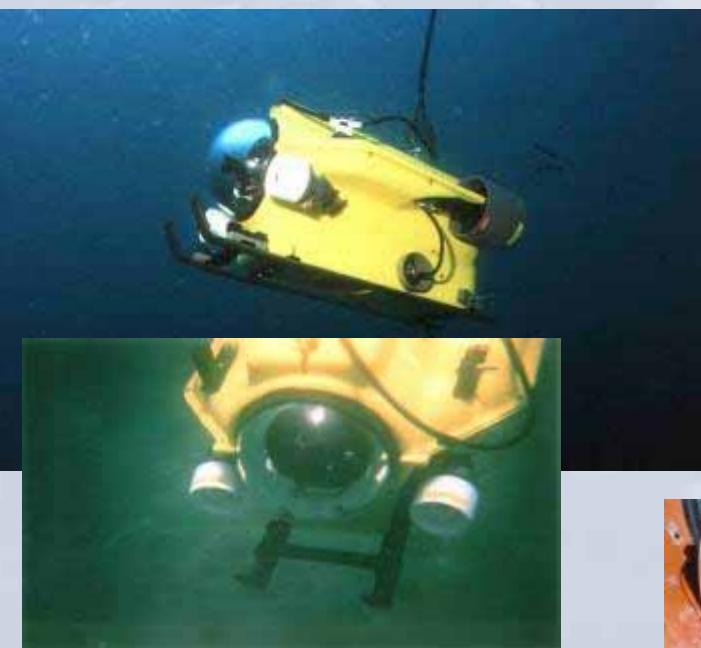
Geopulse Transceiver/Receiver Triton Elics Digital
Acquisition system



....HYPOX partner institutions: UPAT
Infrastructure (2/4)

REMOTE OPERATED VEHICLE
Benthos MKII (R.O.V)

Operational depth 300 m



SIDE SCAN SONAR EG&G
272TD towfish Edgetech 4100-
P digital recording unit



MARINE MAGNETOMETER
Overhouse type
SeaSPY (Marine Magnetics)



....HYPOX partner institutions: UPAT Infrastructure (3/4)



KC Kajac Corer



Benthos Gravity Corer



Box Corer



Day-Grab



Van-Veen
Grab



Multi-parameter
seawater sensors
YSI 600XL



Multi-parameter seawater
sensor and current meter
Aanderaa RCM9 MK II.



Multi-parameter
seawater sensors
Insitu troll 9500



Water Sampler
HydroBios



Methane Sensor METS
Franatech

....HYPOX partner institutions: UPAT Infrastructure (4/4)

Sieves



particle size analyzer
(MasterSizer 2000)



shear box

Microscope sediments
analysis



Perkin Elmer 3100 Atomic
Absorption Spectrometer



ICP-MS Perkin Elmer



Microwave digestion MLS 1200 mega

