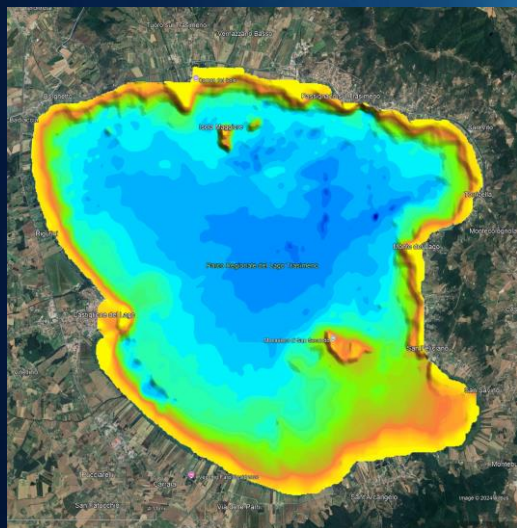


Progetto CARG analisi offshore

Luca Gasperini ISMAR–CNR, Bologna

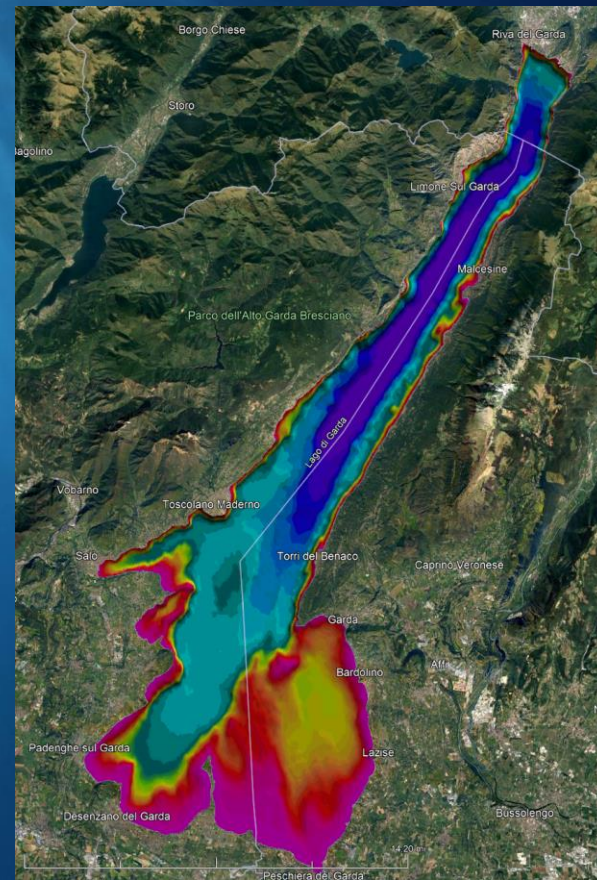
Lago Trasimeno



Lago di Varese



Lago di Garda





Geomorphology

Volume 371, 15 December 2020, 107427



Morphotectonics and late Quaternary seismic stratigraphy of Lake Garda (Northern Italy)

Luca Gasperini ^a  , Alfredo Marzocchi ^b, Stefano Mazza ^b, Roberto Miele ^a, Matteo Meli ^a, Hassan Najjar ^a, Alessandro M. Michetti ^c, Alina Polonia ^a

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<https://doi.org/10.1016/j.geomorph.2020.107427>

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HMS-620XL B620-205 Vehicle



GeoEel Solid™ Digital Solid Streamer



Introducing the ultimate in marine seismic fidelity: the GeoEel Solid™ from Geometrics. Built on our experience and success with the popular GeoEel™ digital streamer, the GeoEel Solid combines superior electronics with a patented solid active section design that delivers higher-quality data than ever before.



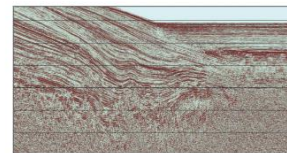
Photo courtesy JAMSTEC, Yokosuka, Japan

The GeoEel Solid digital hydrophone streamer is the smallest diameter solid design available. At only 44.5 mm, the GeoEel Solid is easy to deploy, easy to transport and easily shipped by air. The 100% solid construction, coupled with our proprietary polymer hydrophone design, eliminates bulge waves and other cable-borne noise, yielding very low towing noise at lower frequencies than any liquid streamer.

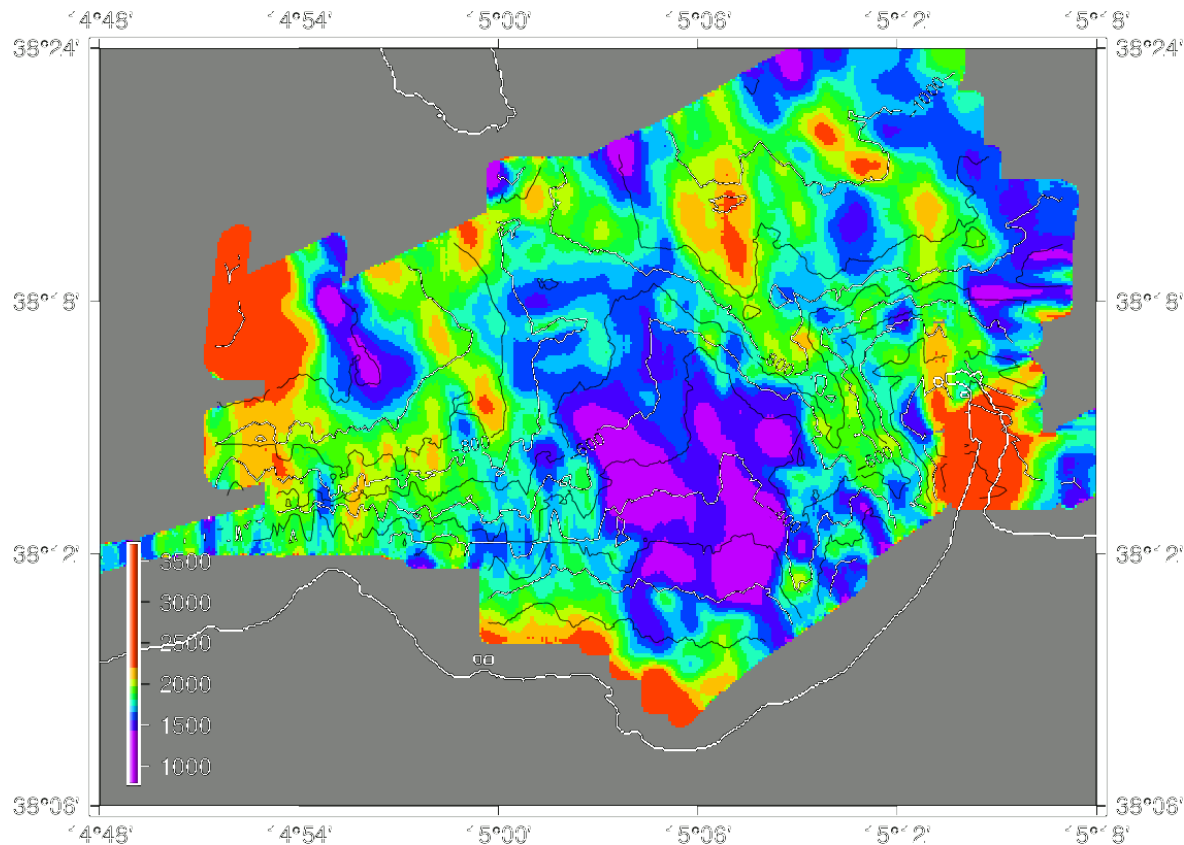
The GeoEel Solid communicates via 100 mbs Ethernet with the Geometrics CNT-2 controller, running field-proven acquisition software that is used on over 70 installations worldwide. And the GeoEel Solid is designed by Geometrics, known for over 40 years as an industry leader in rugged, reliable and well-supported instrumentation.

FEATURES & BENEFITS

- **Light and easy to handle** - Only 44.5 mm diameter, up to 240 channels in 8-channel sections. Hand-deployable up to 300m.
- **100% solid construction** - Bulge waves are a thing of the past.
- **Digital sections** - Better quality data, less time deploying and troubleshooting.
- **Full-featured yet simple** - No 30-day training program required.
- **Wide bandwidth for more applications** - Samples at 1/8 to 2 ms for petroleum, engineering or sub-bottom profiling.
- **Environmentally friendly and non-flammable** - Solid polyurethane, easily ships by air, no oil to spill.
- **Free software upgrades forever** - No yearly licensing fees.
- **No costly topside hardware required** - Uses any PC and standard Ethernet.
- **Whisper quiet** - Immune to bulge waves, solid design yields under 4 microbars towing noise at normal towing speeds.
- **Easily upgraded to 3D** with addition of Geometrics P-Cable.



Data courtesy Fugro Consultants, Inc.

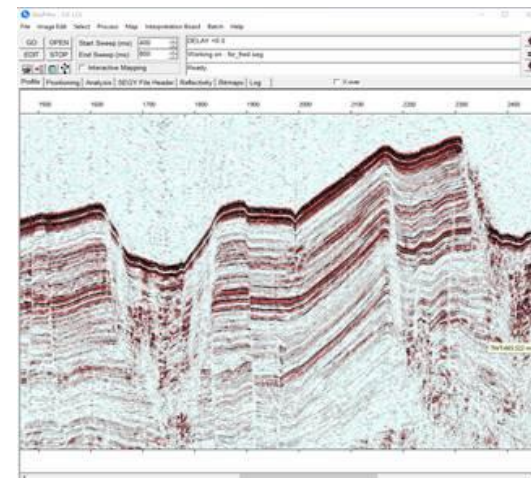


Sismica a Riflessione Multicanale:

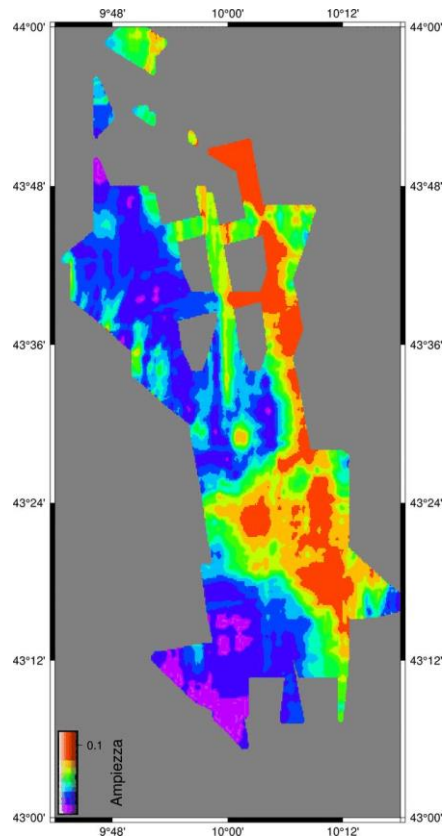
Area di Studio: Golfo di Patti – Milazzo

Sorgente : Bubble Gun

Ricevitori: 2 sezioni (16 canali) GeoEEL ss



SEADRONE-2019– Time Migrated Sections

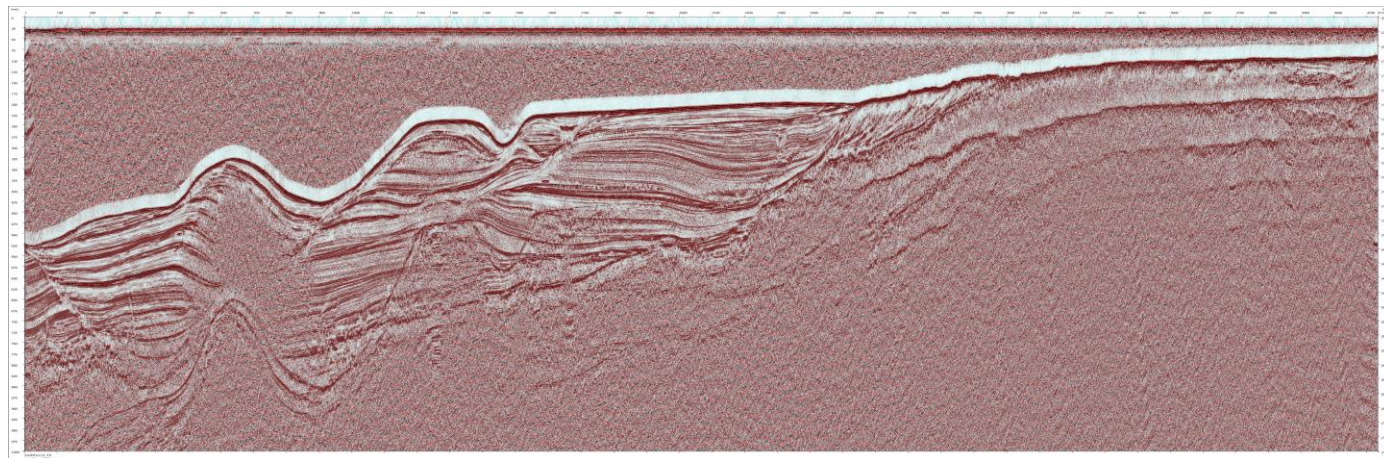


Sismica a Riflessione Multicanale:

Area di Studio: Offshore Toscana

Sorgente : Bubble Gun

Ricevitori: 2 sezioni (16 canali) GeoEEL ss

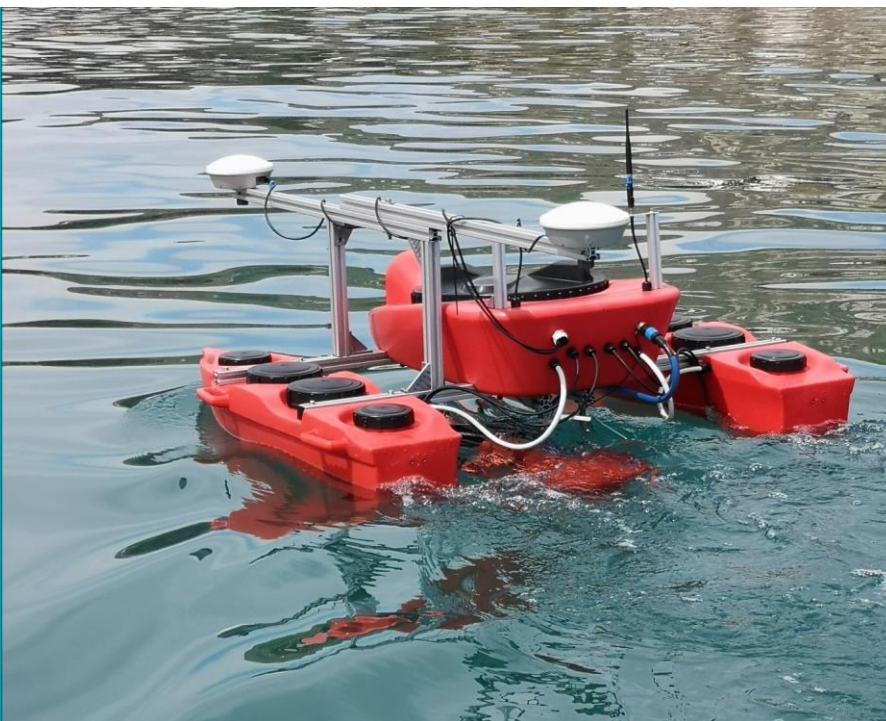
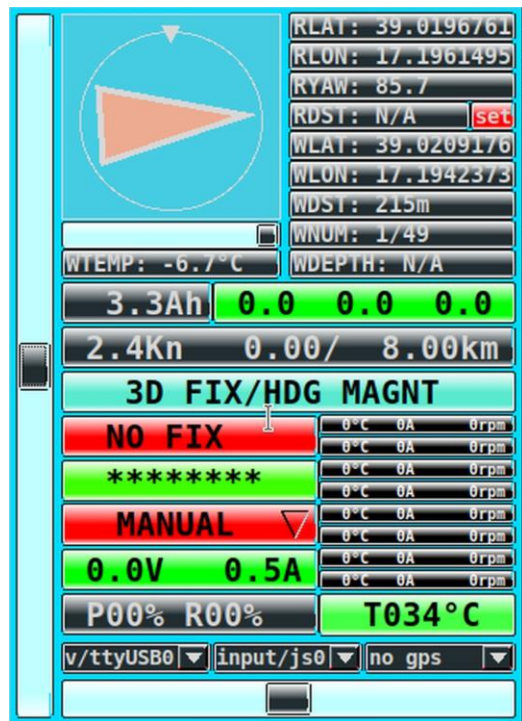


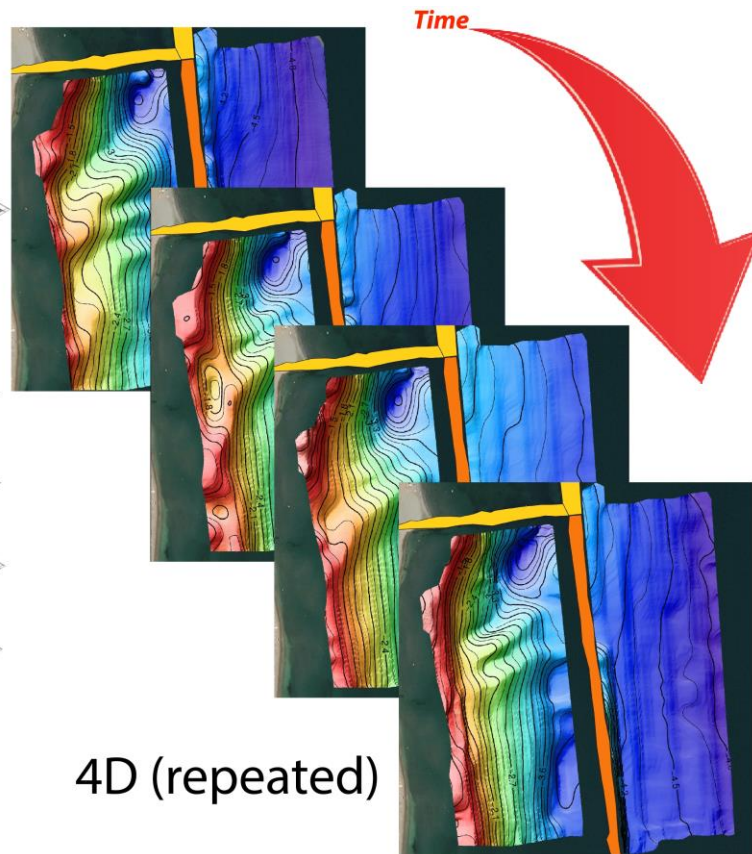
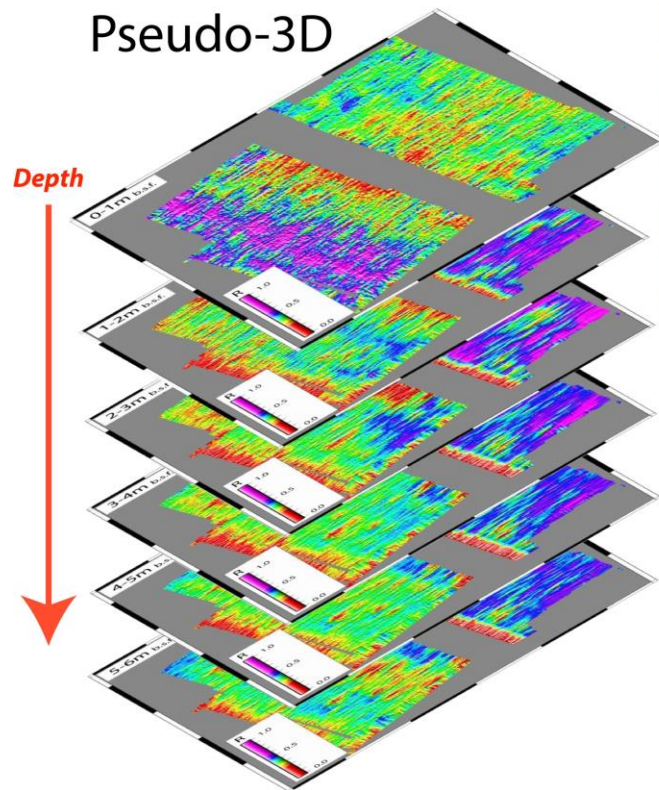
TOSCA-017– Time Migrated Section



OpenSWAP, an Open Architecture, Low Cost Class of Autonomous Surface Vehicles for Geophysical Surveys in the Shallow Water Environment

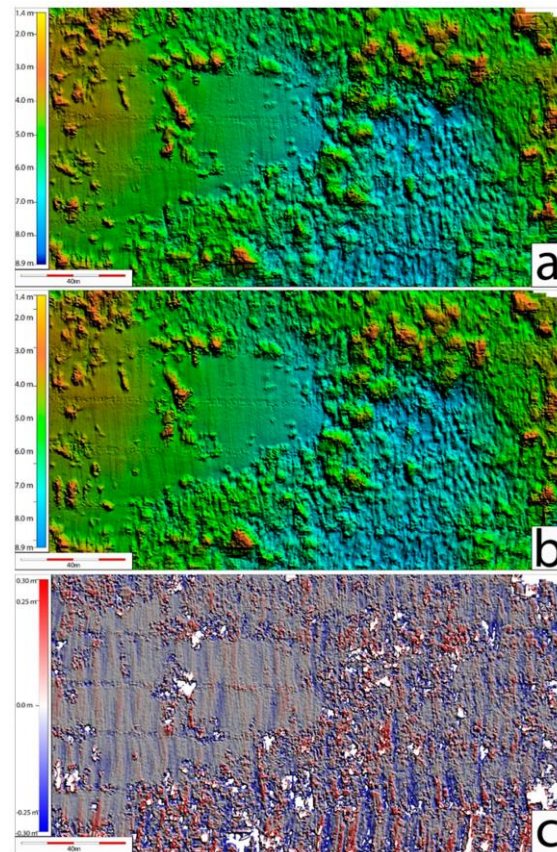
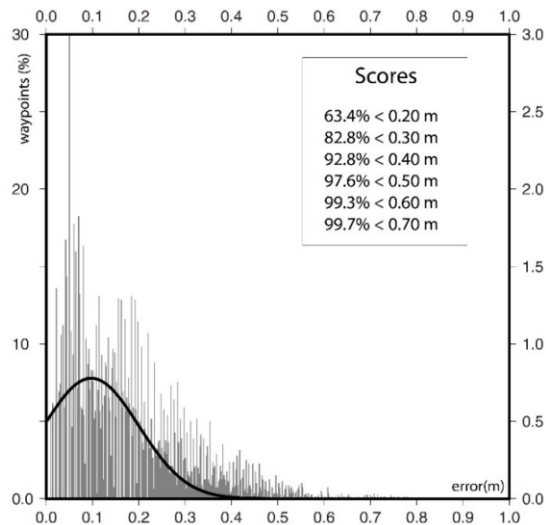
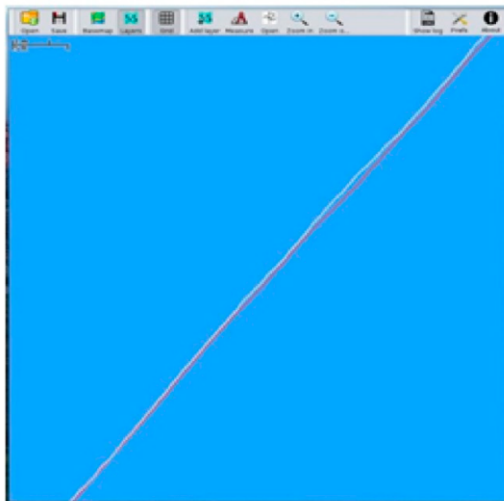
by  Giuseppe Stanghellini ¹  ,  Fabrizio Del Bianco ²   and  Luca Gasperini ^{1,*}  

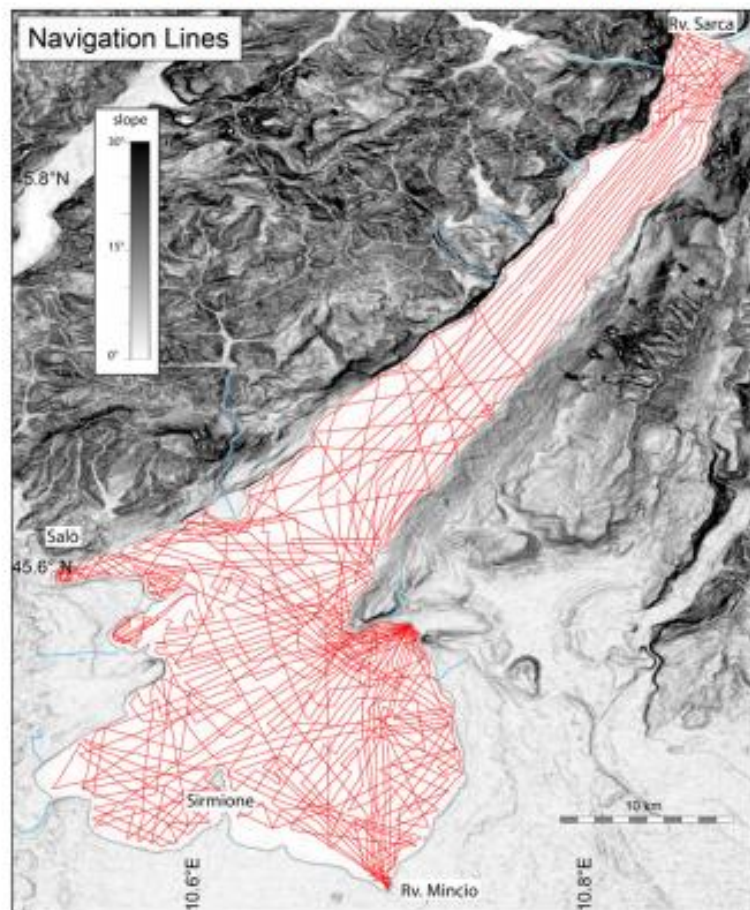


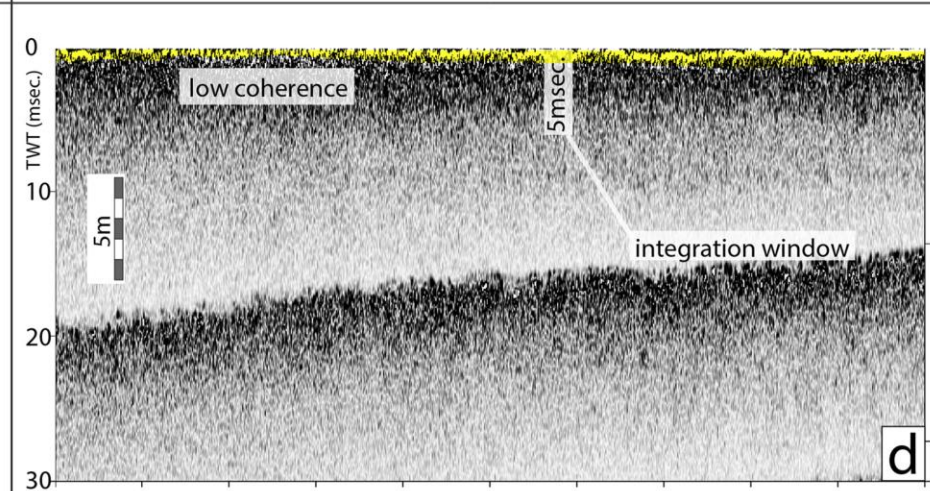
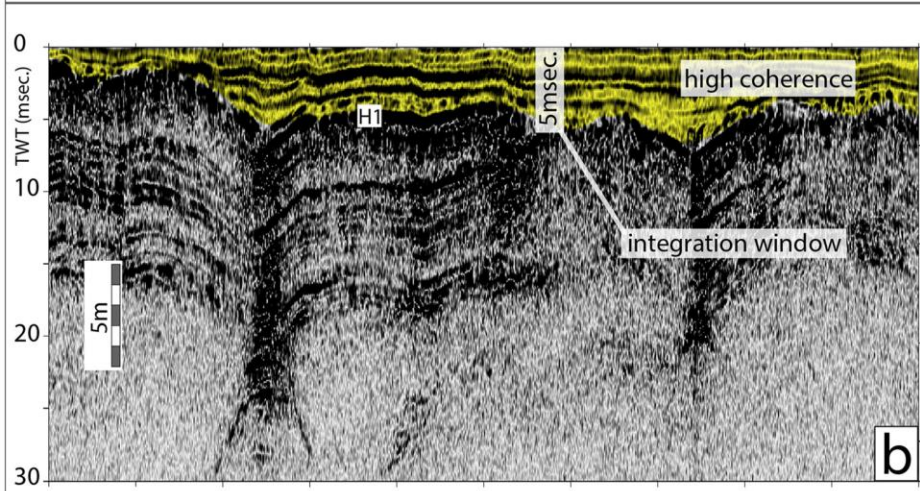
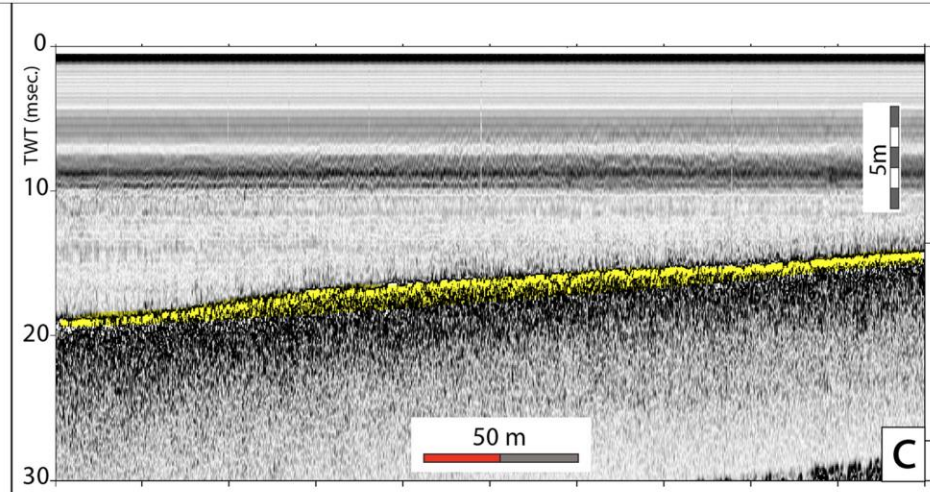
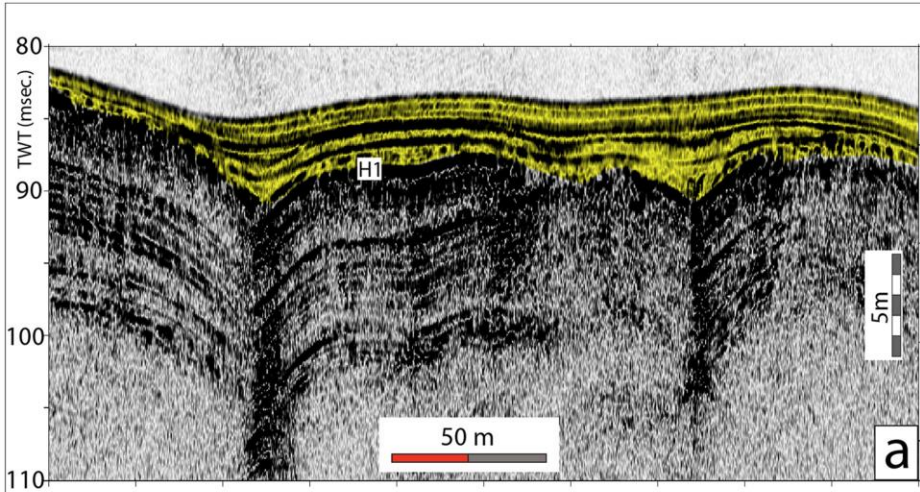


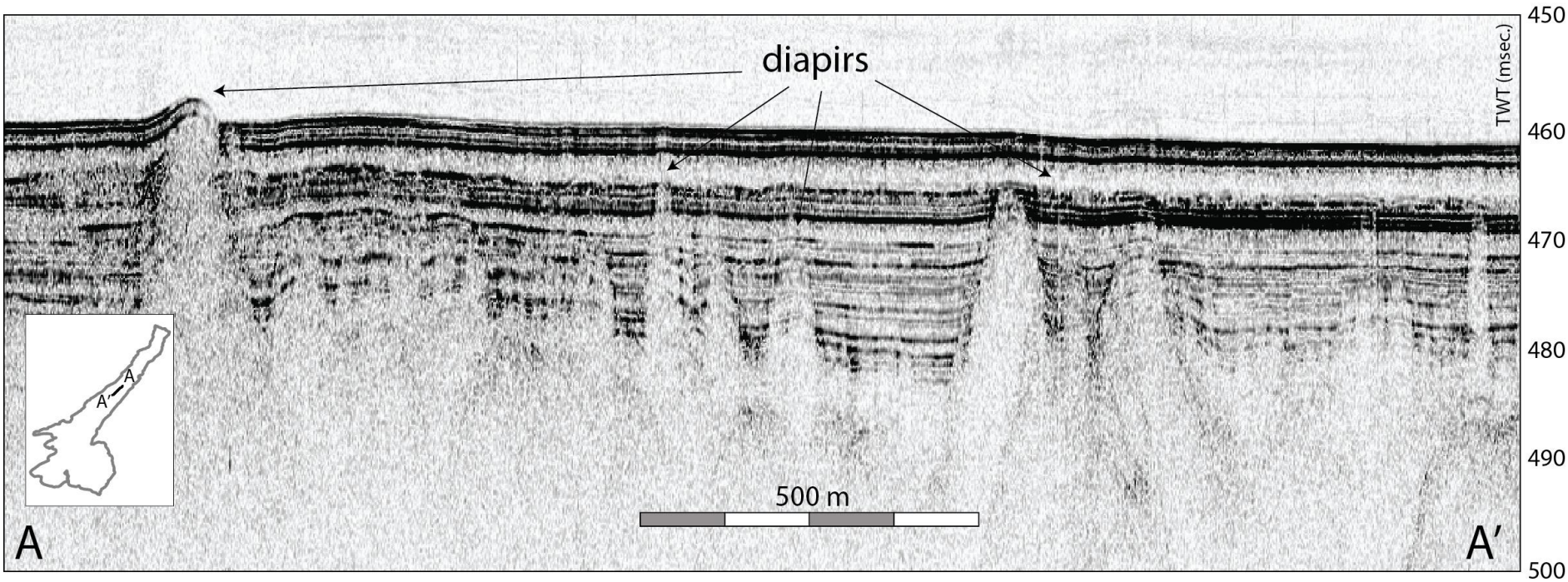
OpenSWAP, an Open Architecture, Low Cost Class of Autonomous Surface Vehicles for Geophysical Surveys in the Shallow Water Environment

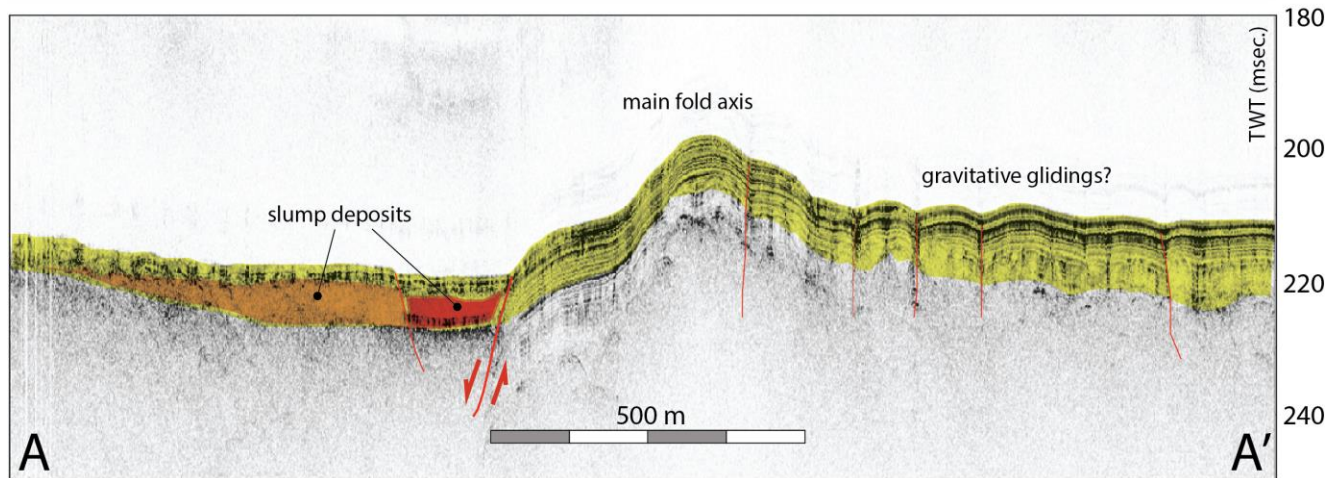
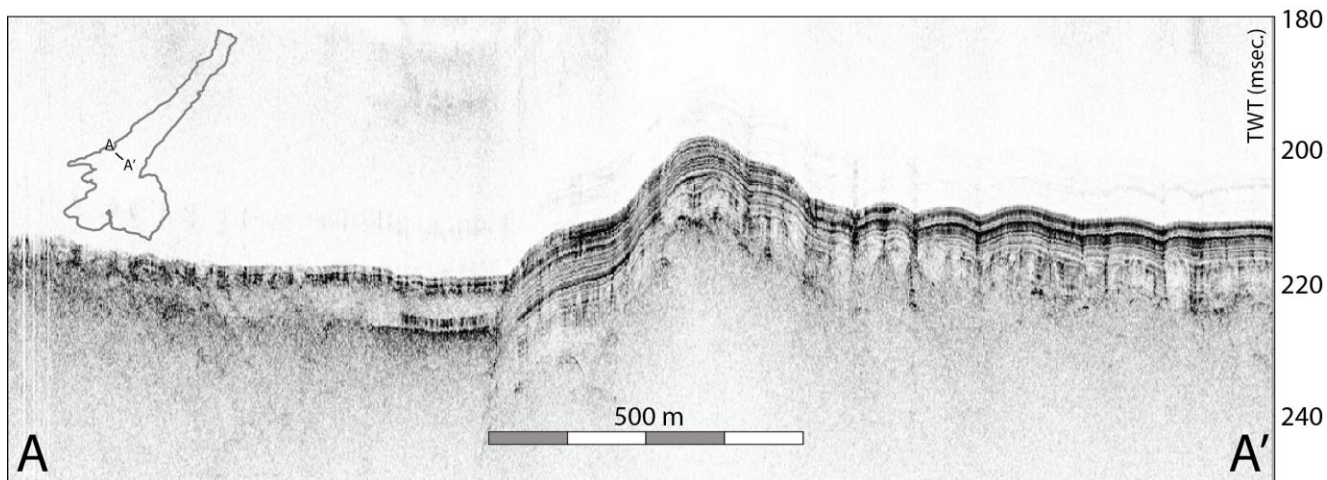
by  Giuseppe Stanghellini¹ ,  Fabrizio Del Bianco²  and  Luca Gasperini^{1,*} 

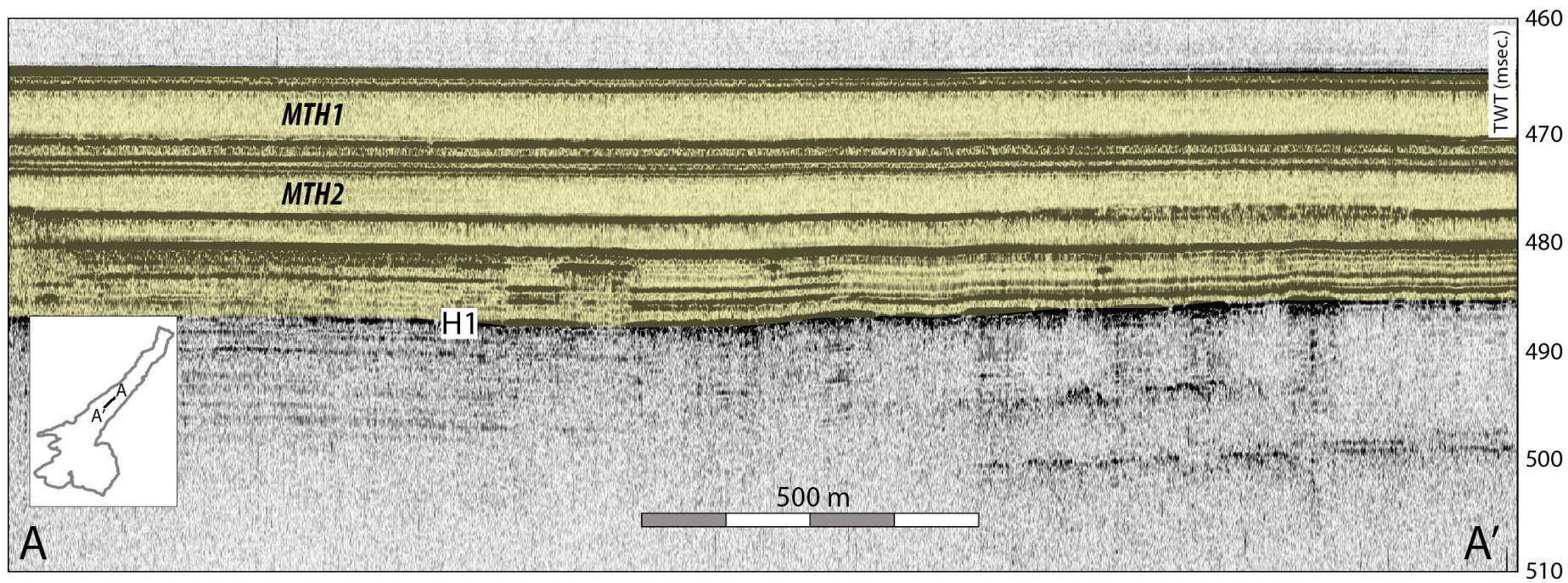




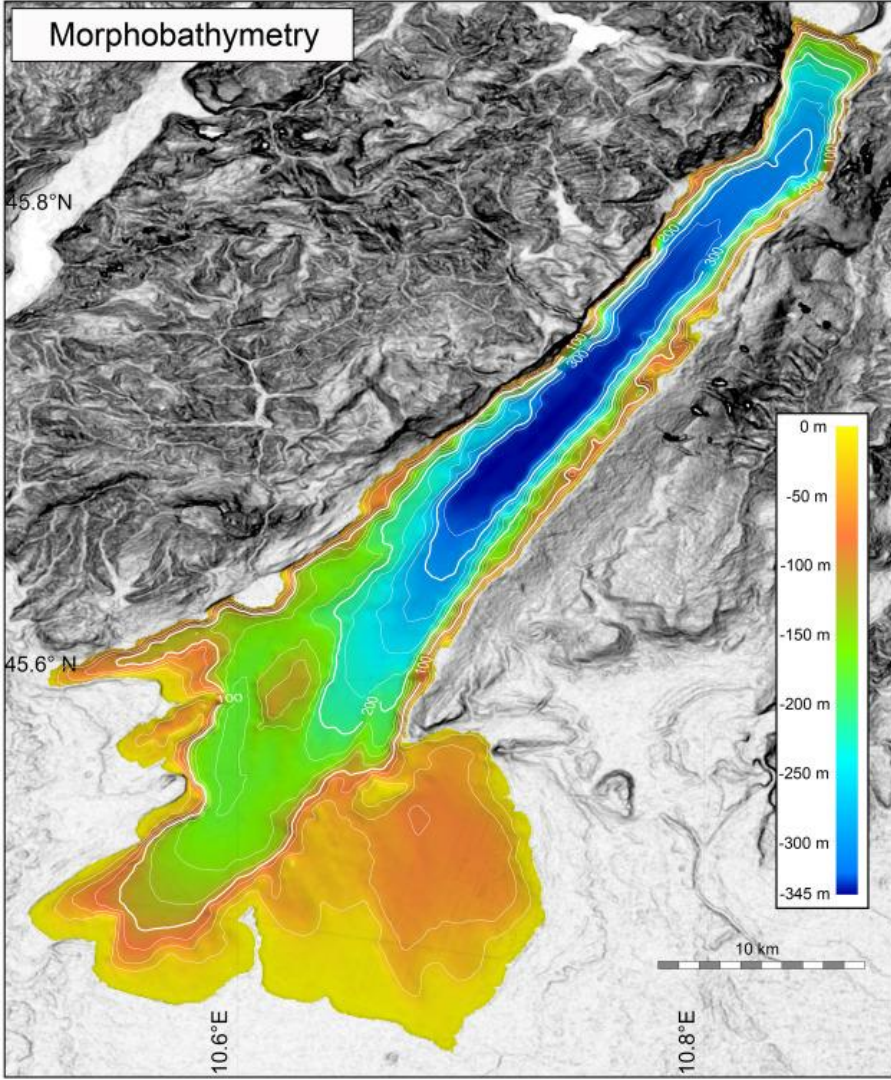




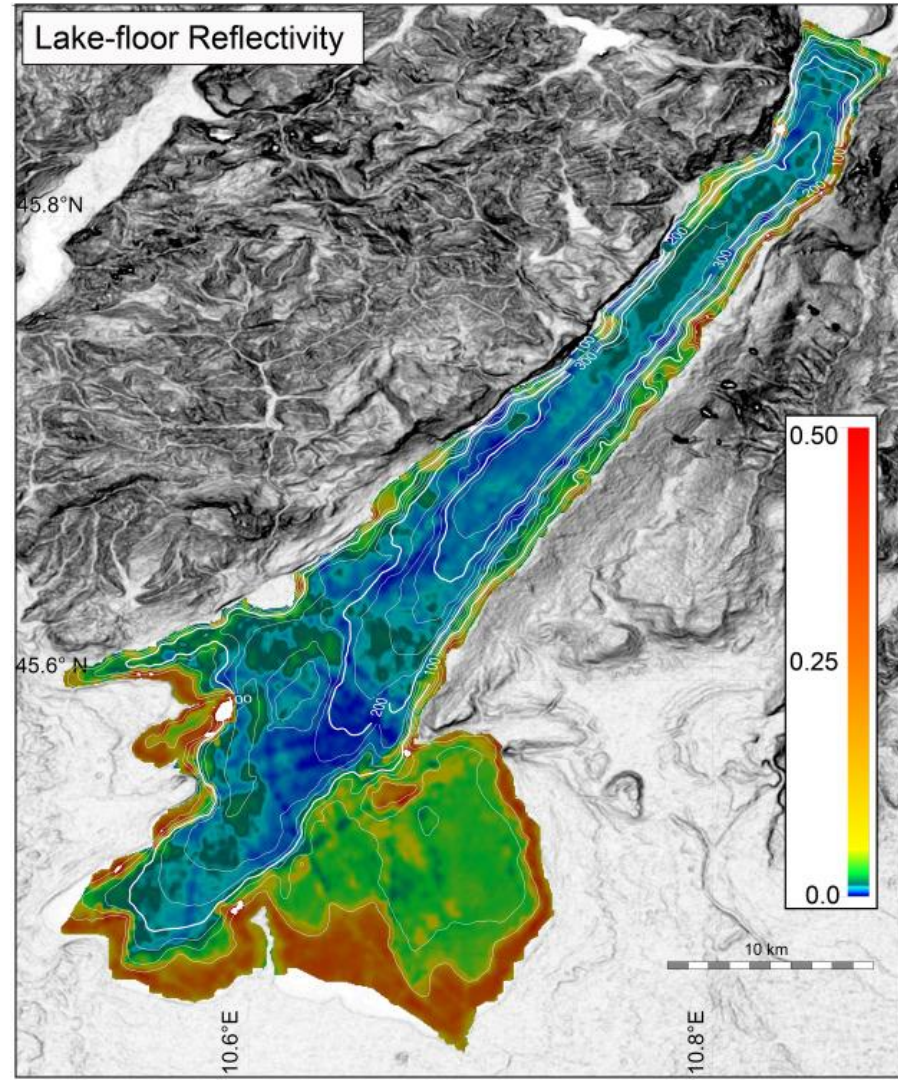


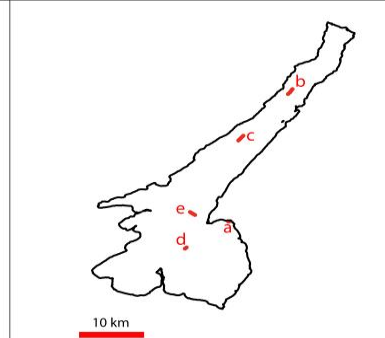
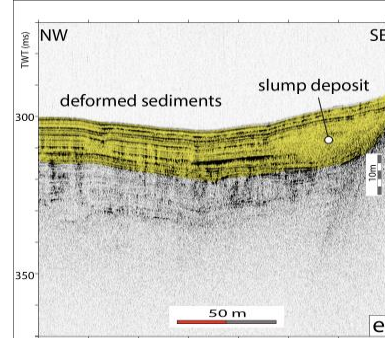
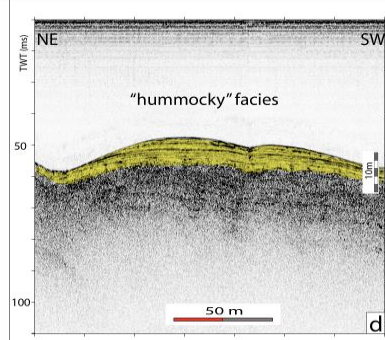
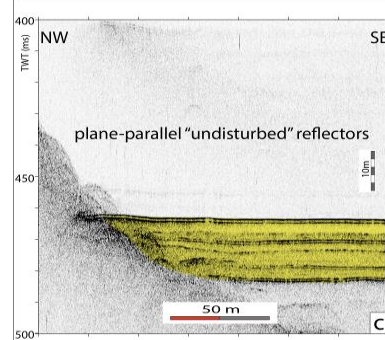
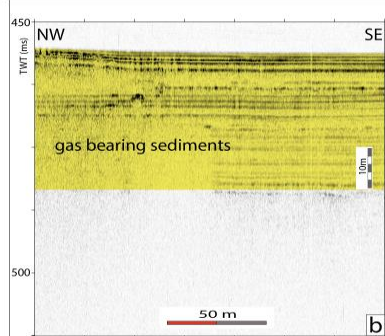
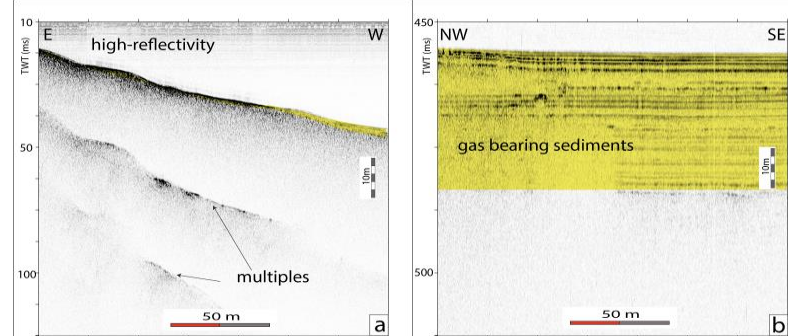
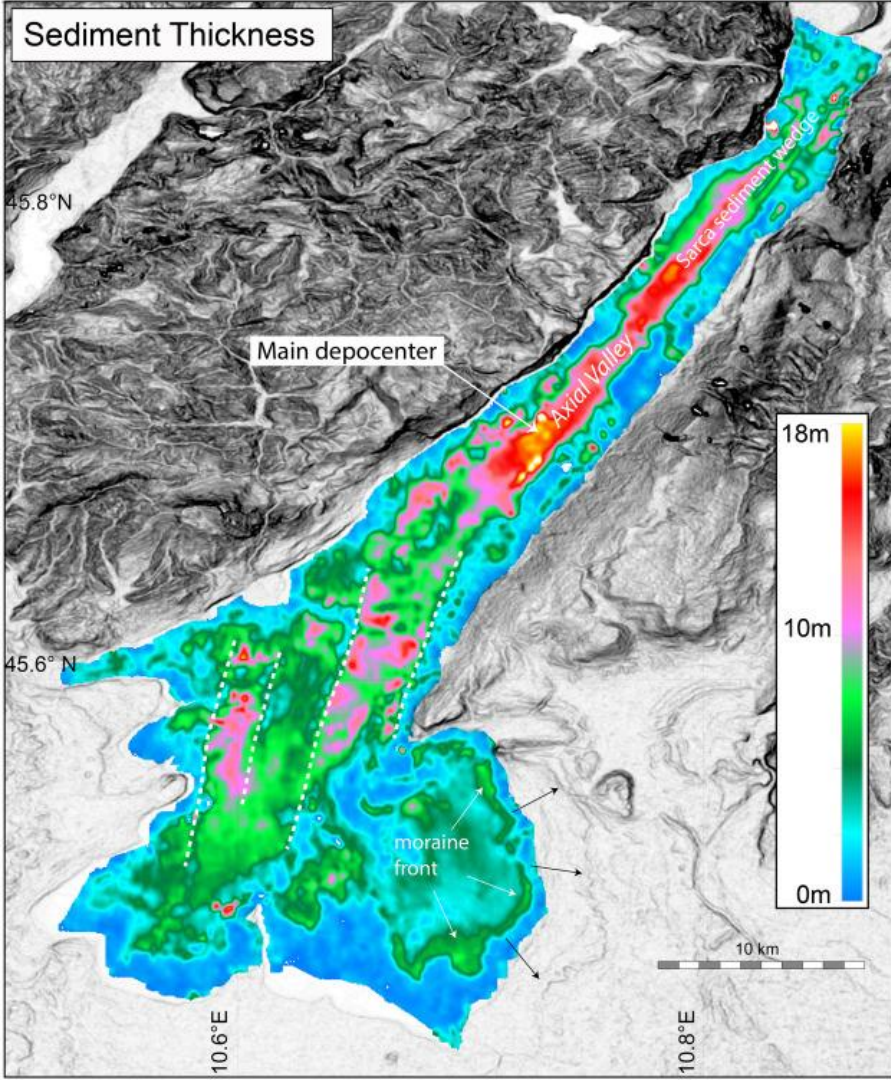


Morphobathymetry



Lake-floor Reflectivity







Profilo TRAS-02

RILIEVO GEOFISICO DEL LAGO TRASIMENO PER LA REALIZZAZIONE DEL FOGLIO GEOLOGICO N. 310
PASSIGNANO SUL TRASIMENO - Progetto CARG
SCALA 1:50.000

PARAMETRI DI REGISTRAZIONE	GEOMETRIA DI REGISTRAZIONE
Vessel - Grifone	Energy source: S15 Sodera Water Gun, 0.24L of volume
Recorder - Geometrics Stratavisor	Depth of Source: 0.5 m
Field format - SEG-D	Streamer type - TELEDYNE Mod. 29500
Data length: 2000 msec	Streamer length: 200 m
Sample rate: 0.250 msec	Number of traces: 8
Fibers: 3 He - OUT	Group interval: 25 m
Coverage: 800%	Shot interval: 12.5 m
Recording date:	Antenna - nearest trace: 52.5 m



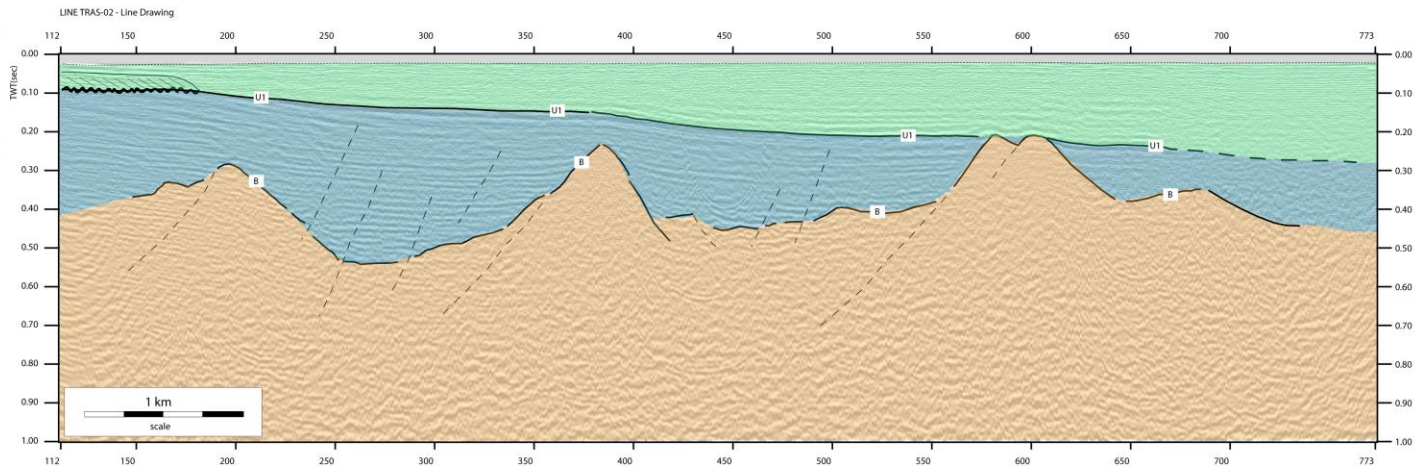
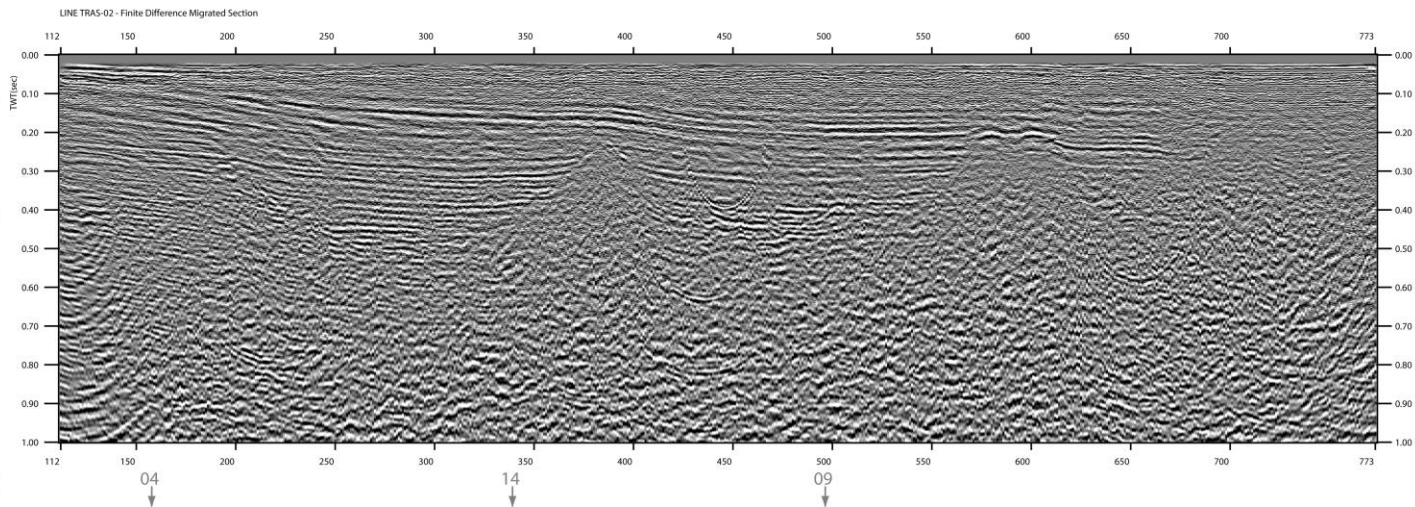
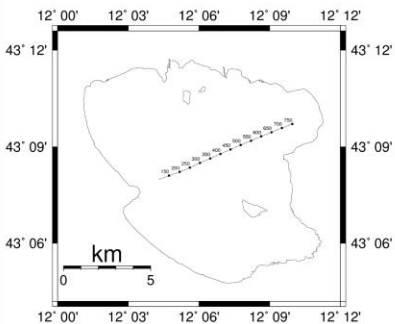
SEQUENZA DI ELABORAZIONE

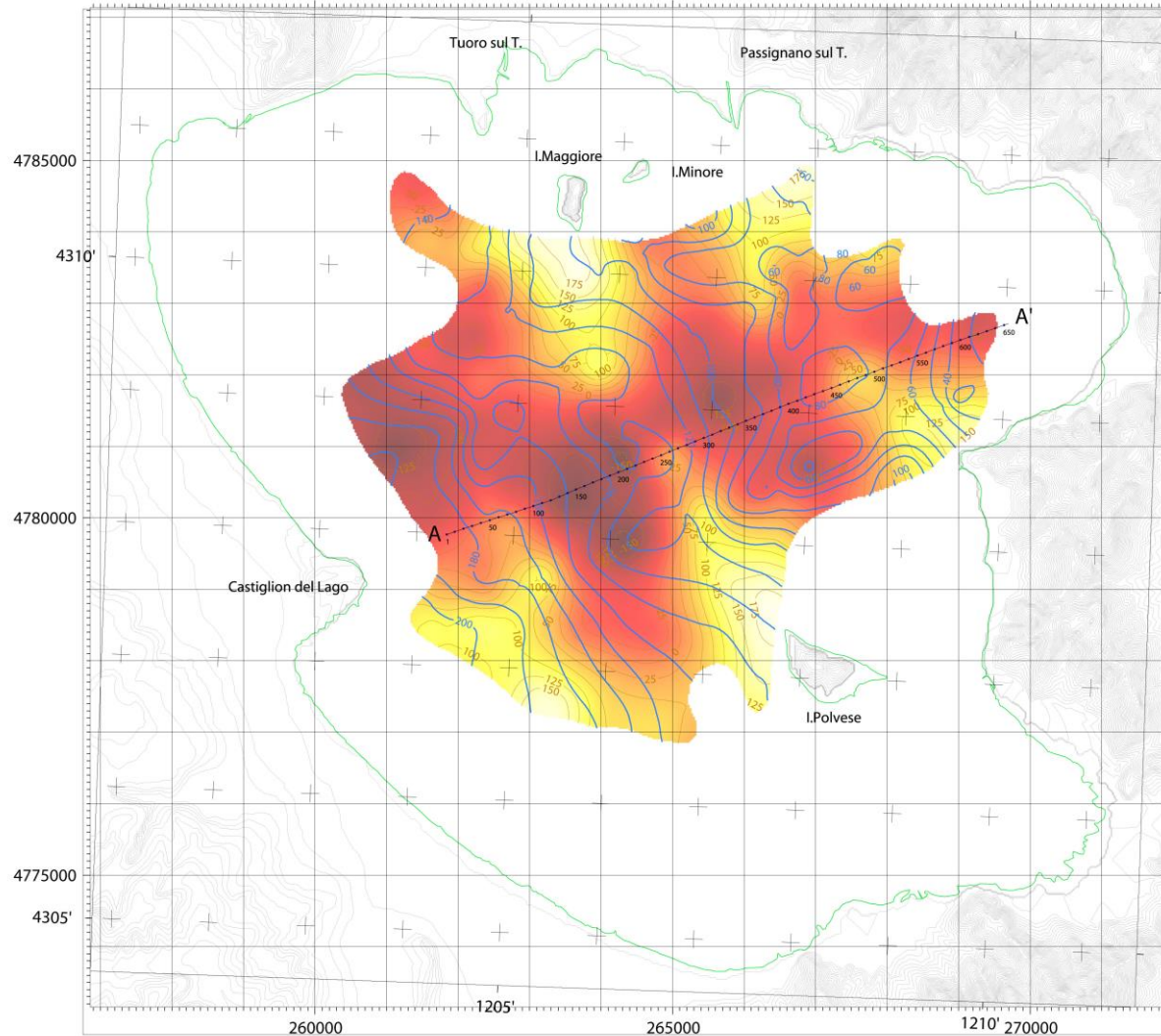
-SEG- SEG-Y conversion
-EDIT
-SORT
-VELOCITY ANALYSIS
-NMO correction
-TIME MIGRATION (Finite difference algorithm)

LEGENDA (Interpretazione geologica)

A	Unconformity principale		Limite generico
	Faglia o frattura		Progradazione
	Unconformity secondaria (erosione)		fondo-lago

MAPPA DI POSIZIONE

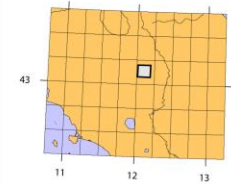
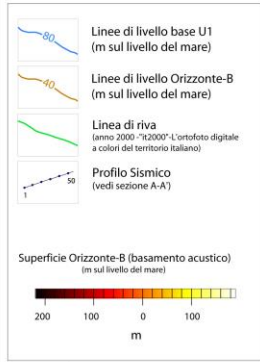




Progetto CARG 1:50000
 Foglio: 310 Passignano S.T.

Carta Strutturale da indagini di
 Sismica a Riflessione

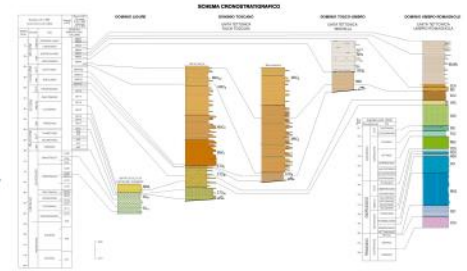
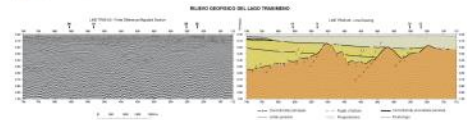
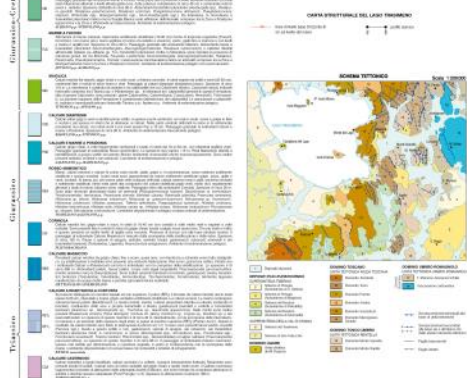
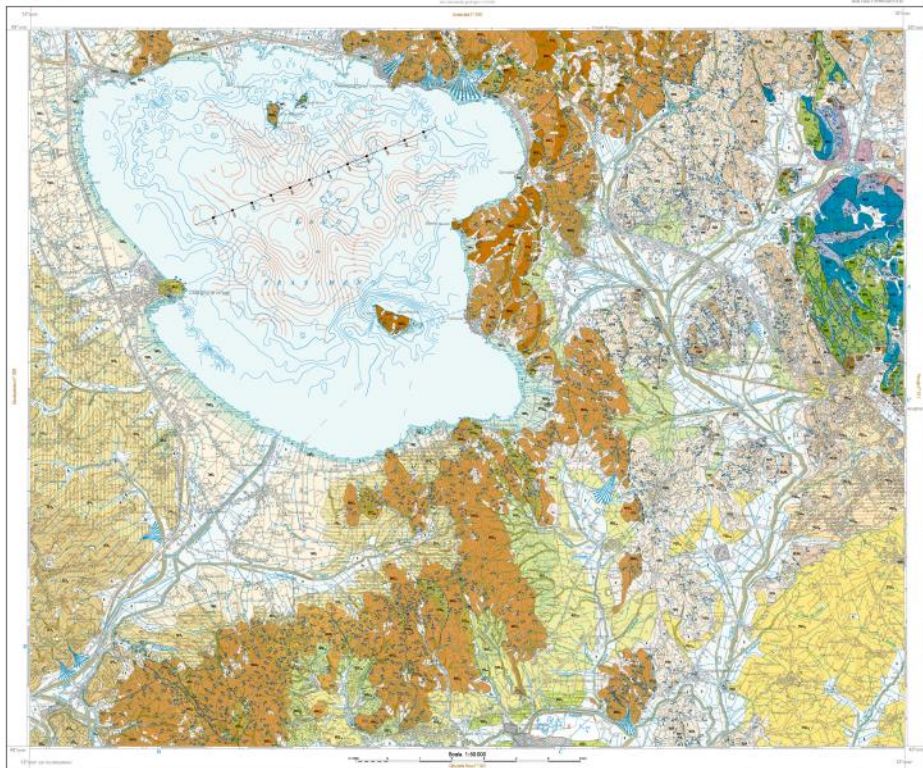
Proiezione: UTM 33
 Datum: WGS84
 Scala: 1:50000



Data: 20051218
 Prodotto:
 Approvato:

CARTA GEOLOGICA D'ITALIA

PASSIGNARO SUL TRASIMENO
FOLIO 310



Grazie per l'attenzione