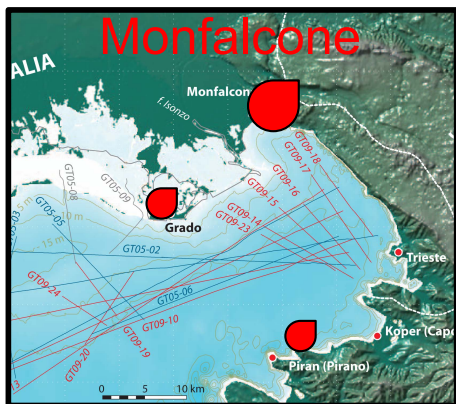


La risorsa geotermica



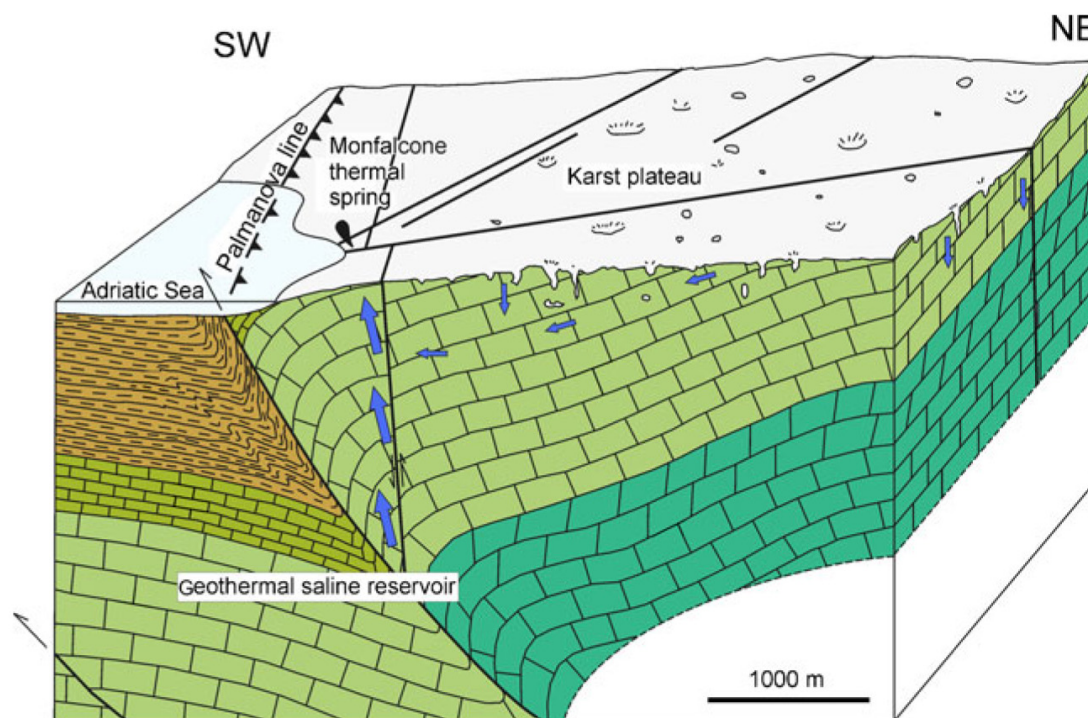
Tavola Peutingeriana (Biblioteca Nazionale di Vienna)
Copia del XII-XIII secolo di un'antica carta romana del IV secolo

Acque termali: le terme Romane di Monfalcone







Temperatura acqua:
32.6° – 39.8° C

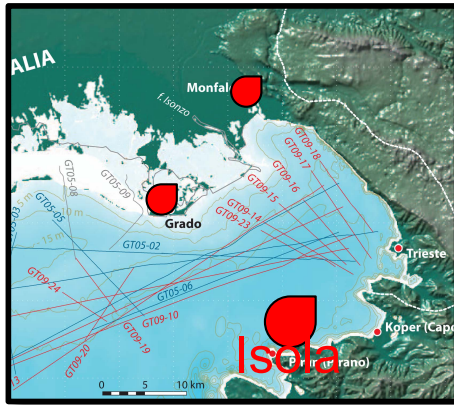
Acque saline mioceniche



Legend

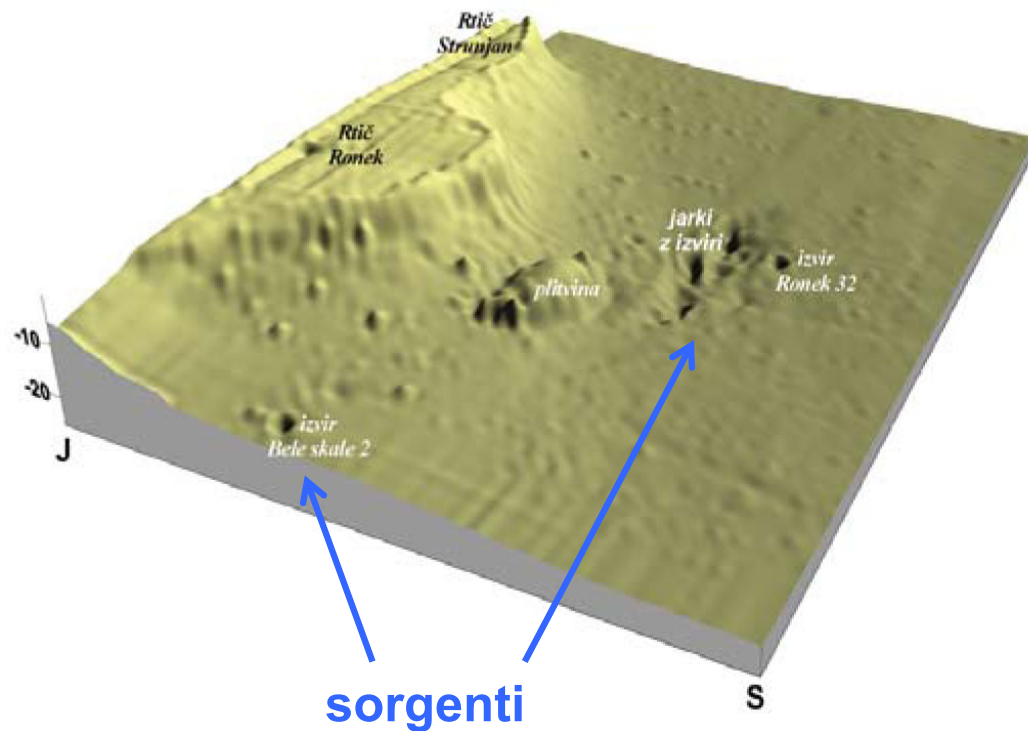
-  Palaeogene flysch
-  Upper Cretaceous - Palaeogene limestones
-  Cretaceous limestones and dolostones
-  Jurassic limestones and dolostones

Acque termali: le sorgenti marine di Isola



8 sorgenti marine

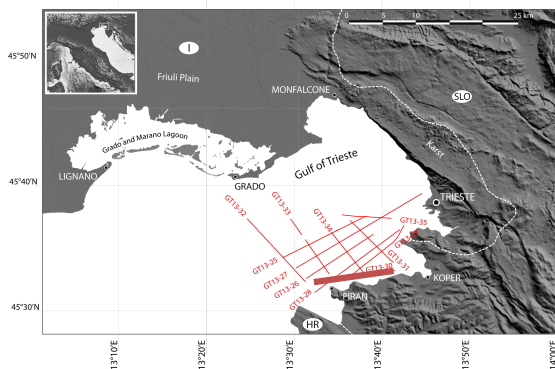
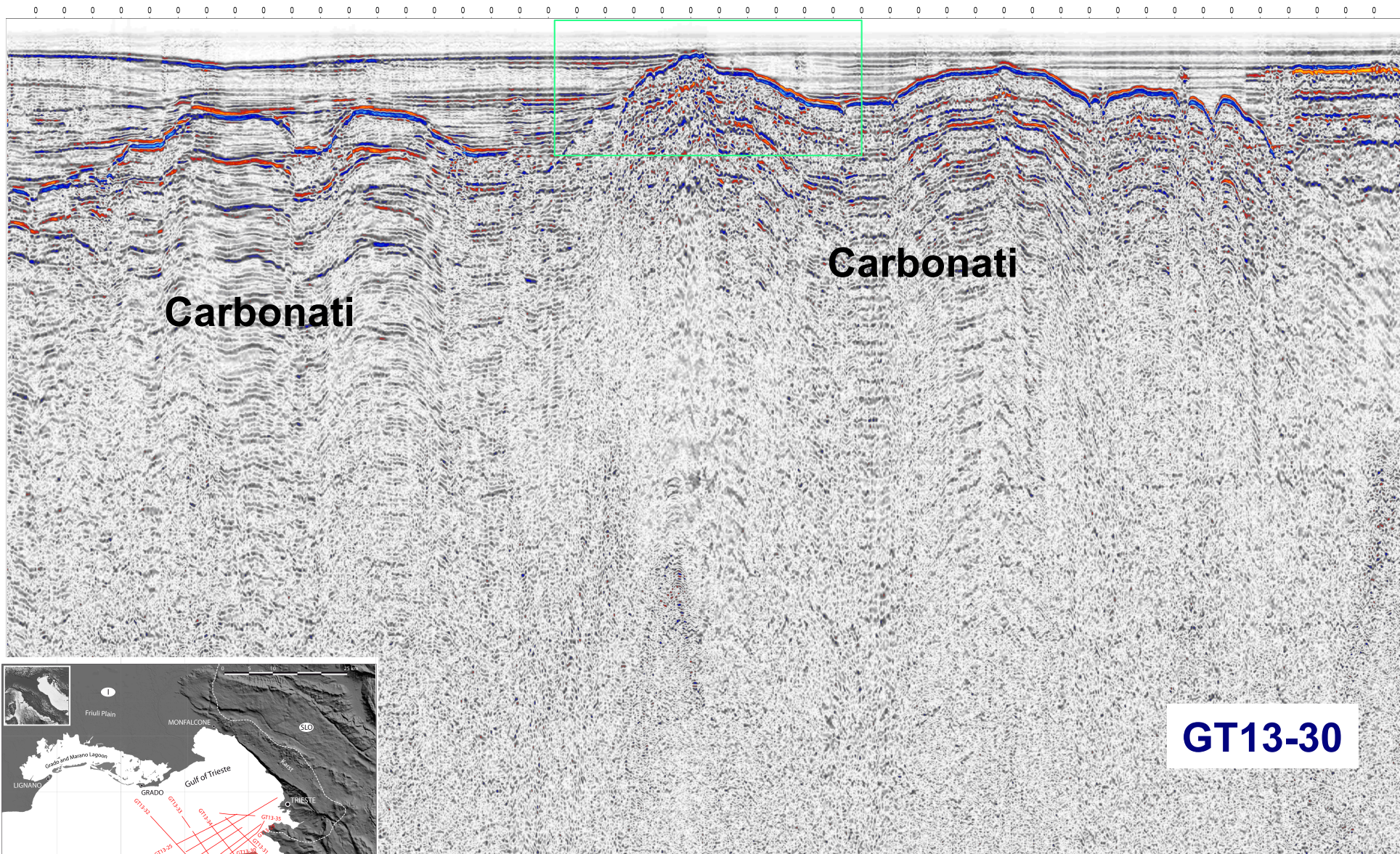
temperatura acqua 22° -30° C



Žumer, 2004

W

E

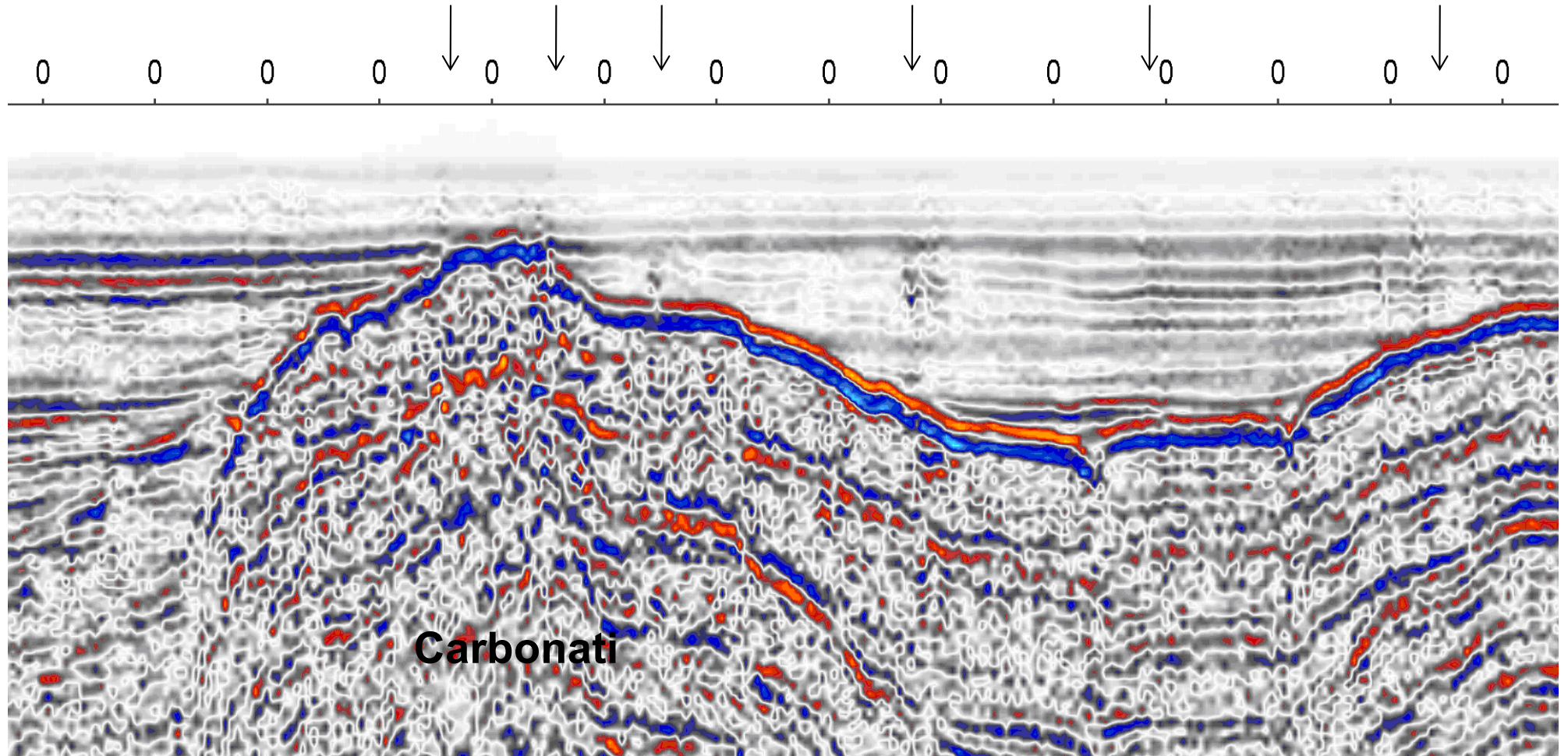


GT13-30

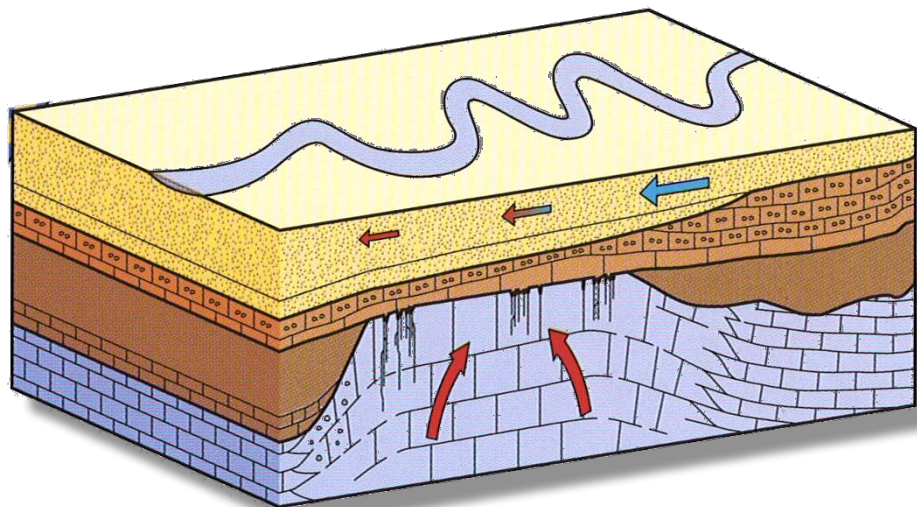
risalite di fluidi

W

E



Acque termali: il pozzo Grado-1



GRADO-1

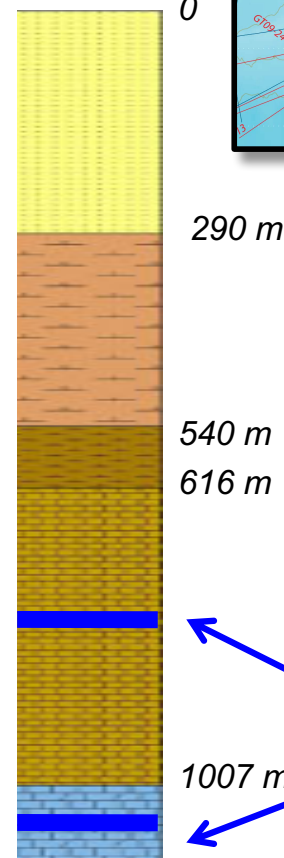
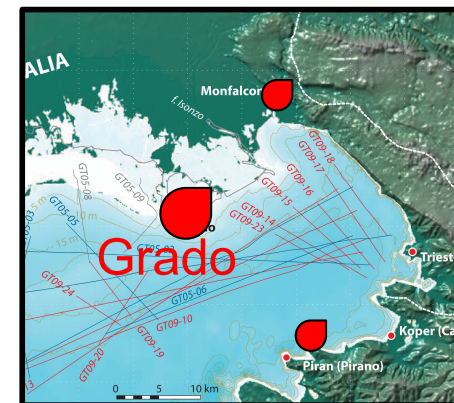
Sedimenti
Plio-Quaternari

Molassa
Miocenica

Flysch
Eocenico

Calcari del
Paleocene –
Eocene Inferiore

Calcari
Cretacici

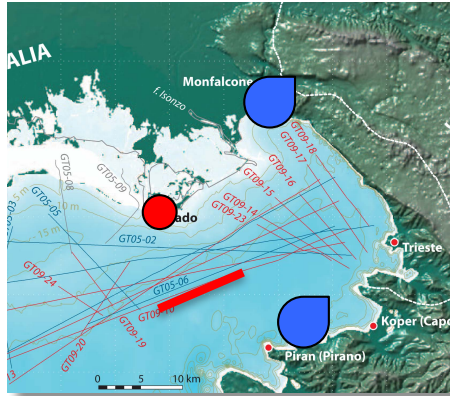


sistemi di fratture
con acqua
salmastra a
44° C

Della Vedova et al., 2008
Cimolino et al., 2010

Cimolino et al., 2010

Sedimenti Plio-Quaternari



GRADO-1

0

Molassa Miocenica

290 m

Flysch Eocenico

540 m

616 m

Carbonati del Paleocene – Eocene Inferiore

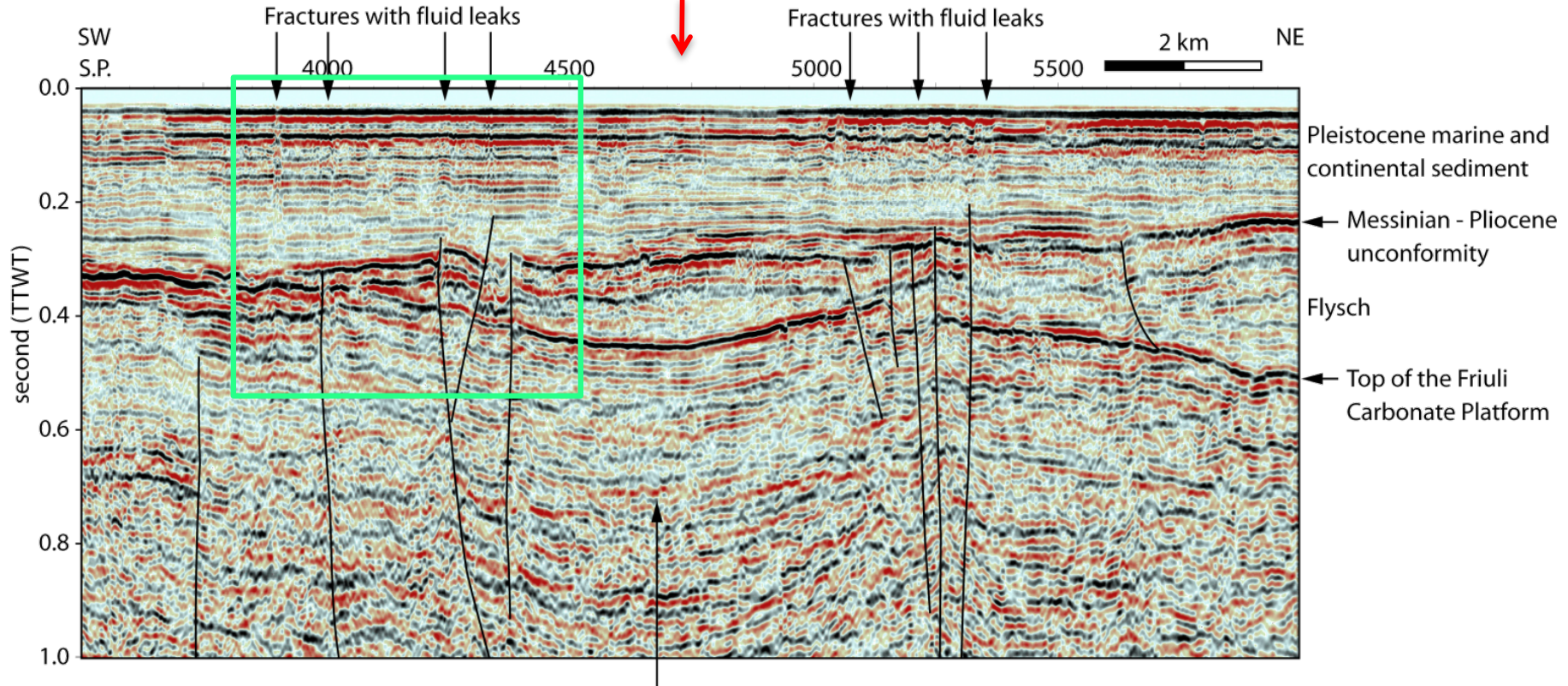
sistemi di fratture con acqua salmastra a 44° C

Carbonati Cretacici

1007 m

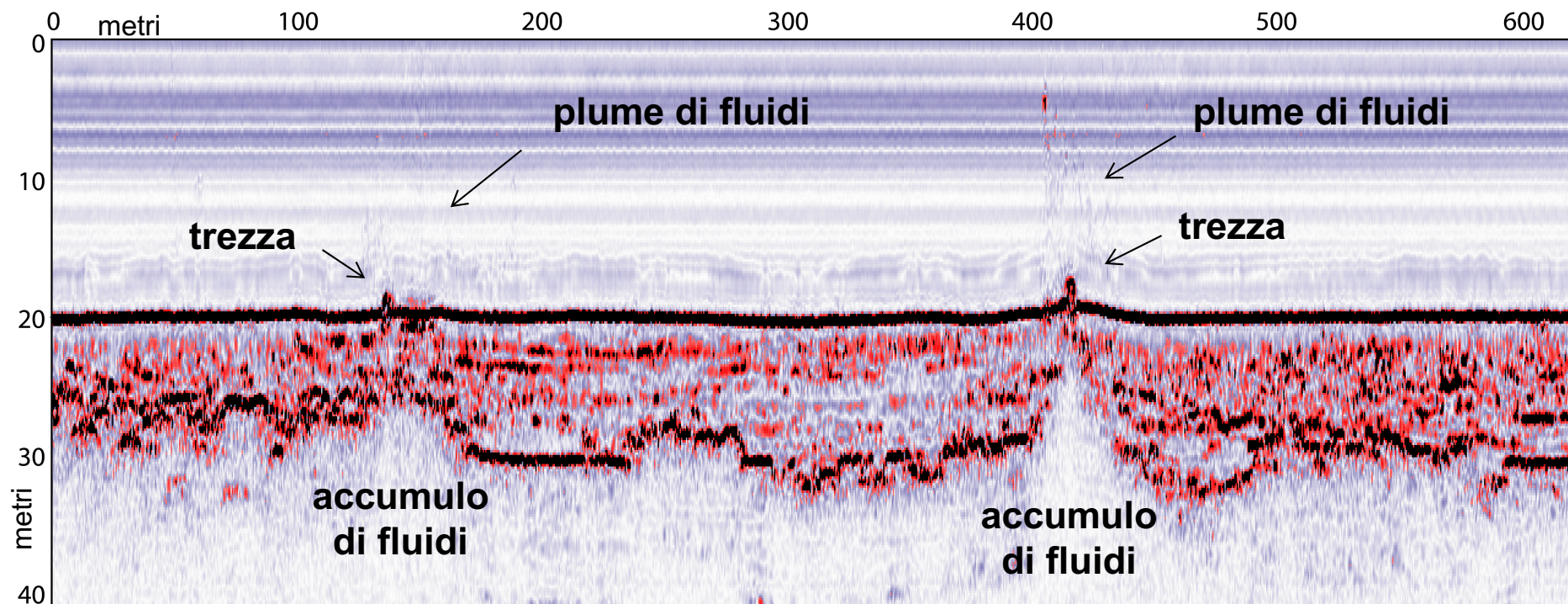
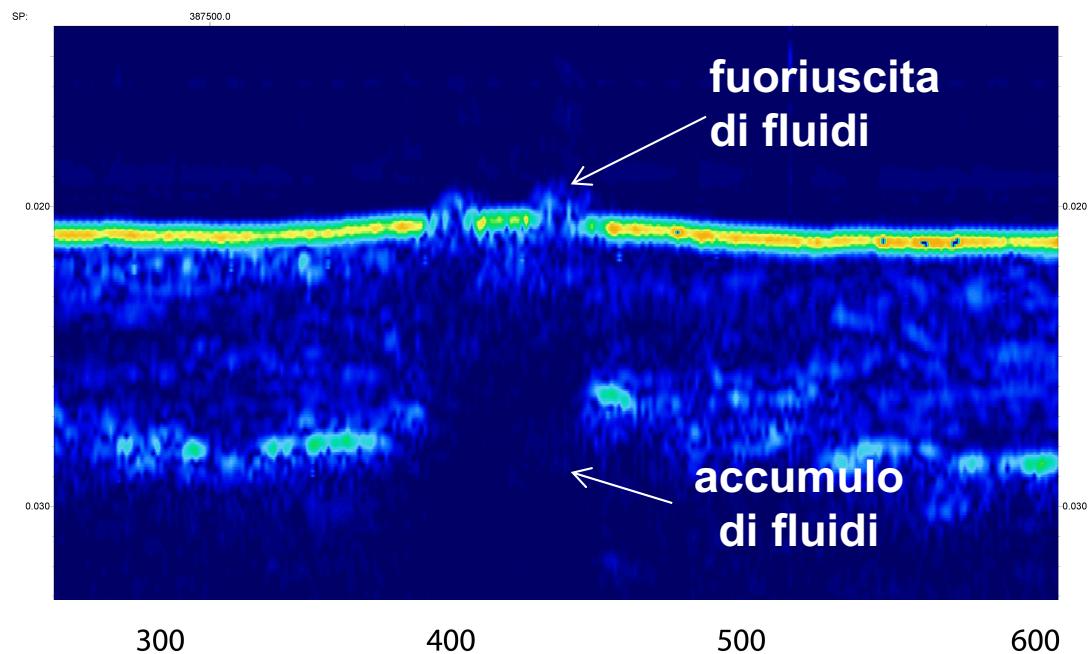
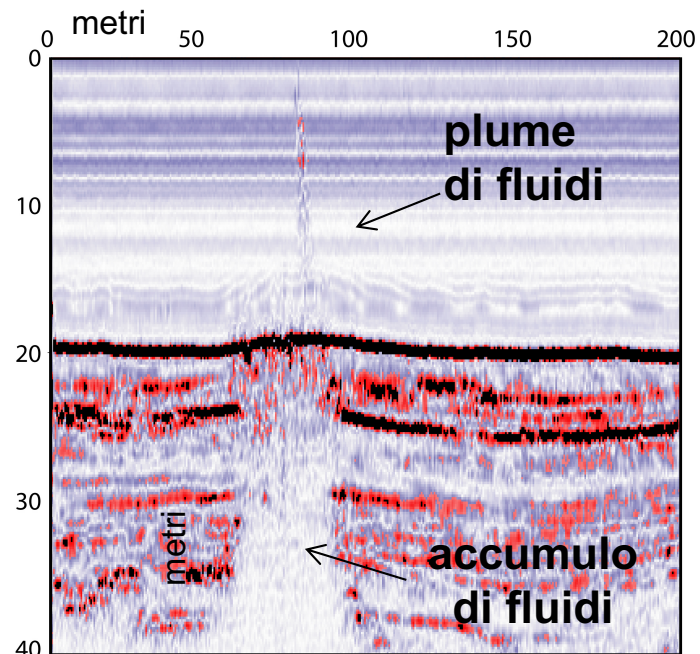


GT09-10 migrated

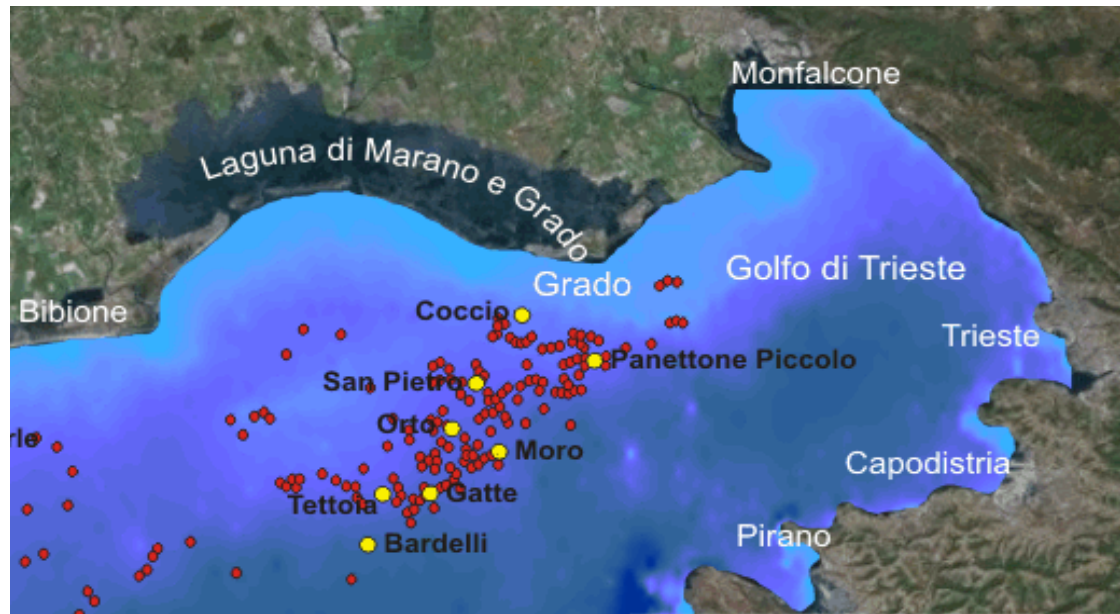


Intraplatform Paleogene? carbonate basin

Fuoriuscite di fluidi

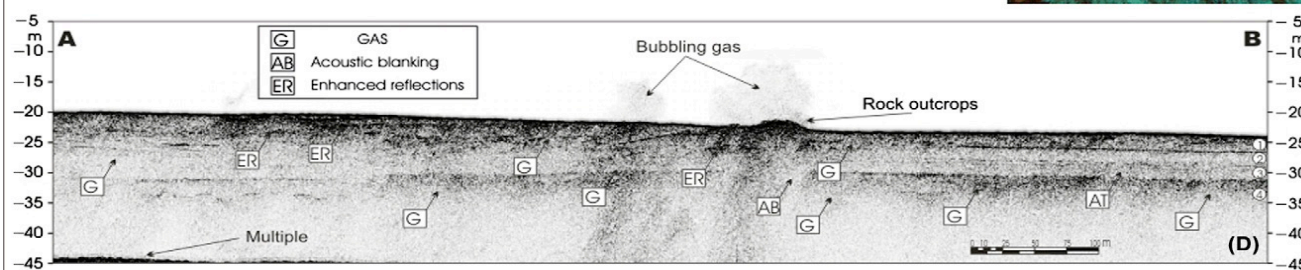
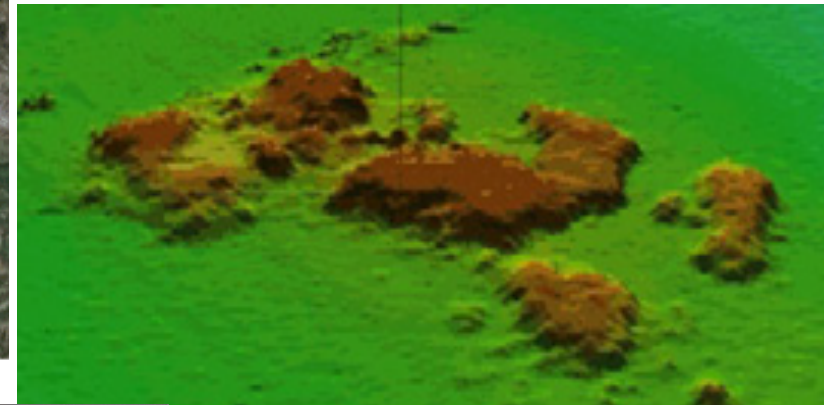


Le trezze



affioramenti carbonatici
 metano-derivati

emissioni di fluidi
 di cui 80-85 % metano



Gordini et al., 2010



FINE