ANF 2022 - Carottages continentaux



Retour d'experiences : missions de carottage du lac du Bourget (France, 2018/2019) et du lac Iznik (Turquie, 2021)













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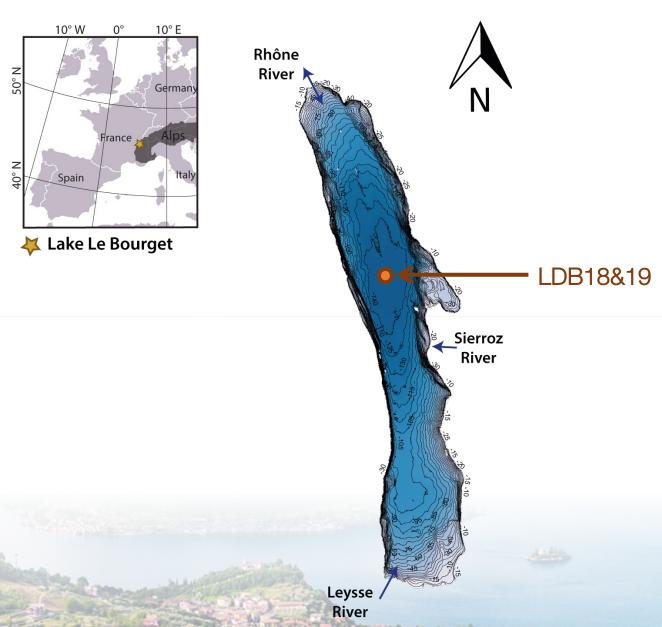




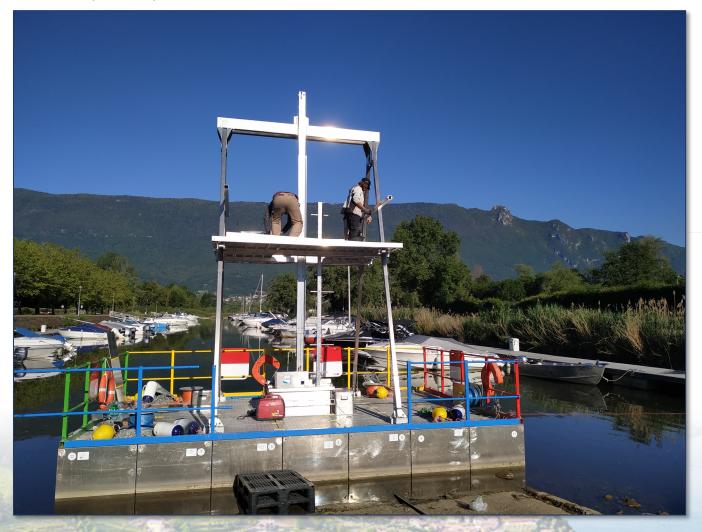


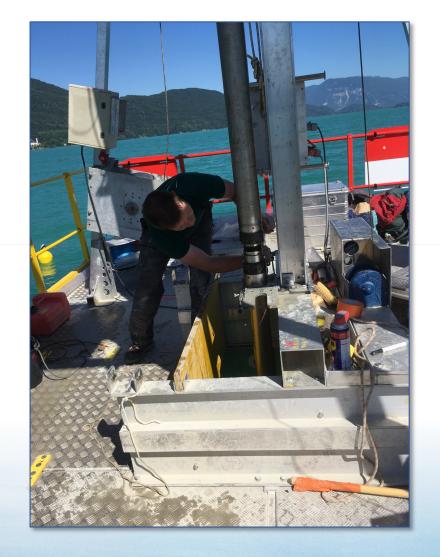
What not to do...

W. RAPUC



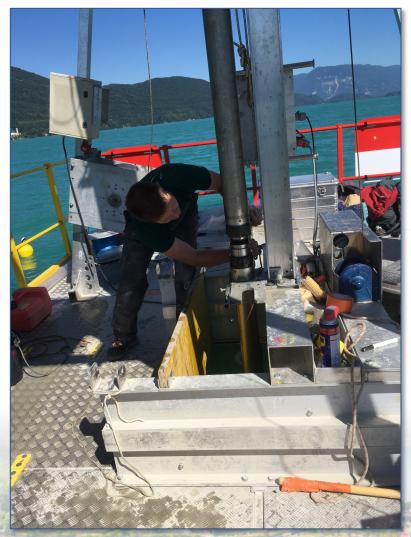
➤ 1st scientific mission for the DT-INSU coring platform (2018)





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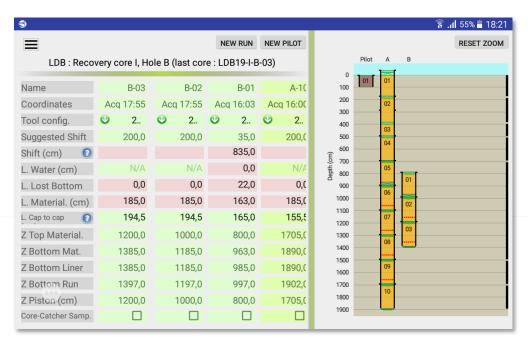
Nom du carottier <u>U-NIEDERREITER 90-2m (EDY AFRI)</u>
Nom de la configuration <u>2-NIED90-2m SPH/TC (AFRI EDY)</u>
Diamètre intérieur (mm) 90





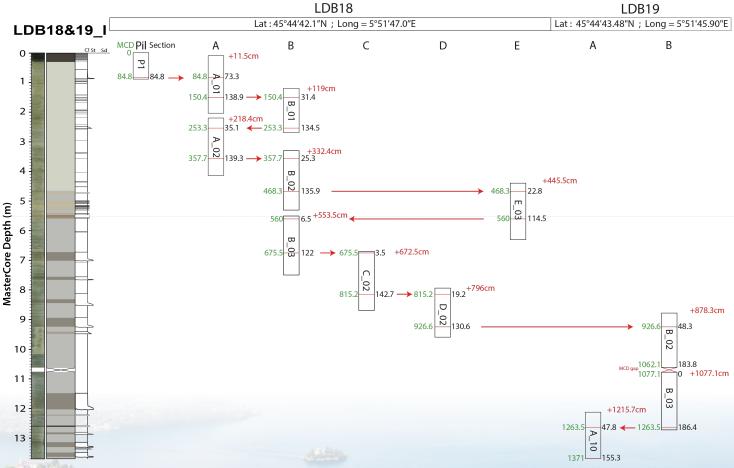
➤ Some difficulties linked to the time allowed to the fieldwork → 2 weeks weren't enough in 2018 to retrieve enough sediment

MasterCore LDB18&19

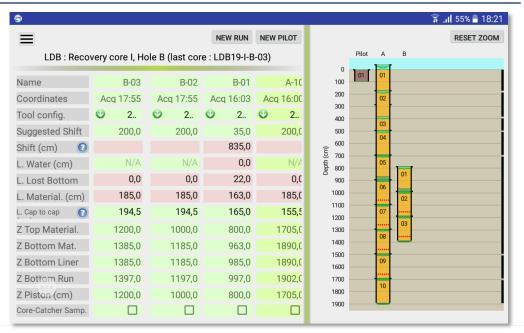


Coring scheme of the 2019 coring

Coring close to the lab is always more difficult



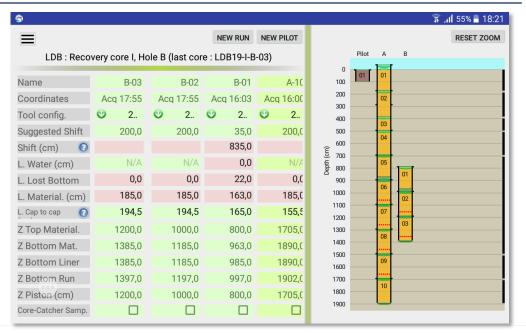
- > Core correlations
 - ➤ Is not supposed to be a problem
 - ➤ Many event layers with distinct texture & colour



Coring scheme of the 2019 coring



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Coring scheme of the 2019 coring



- ➤ Core correlations
 - ➤ Is not supposed to be a problem

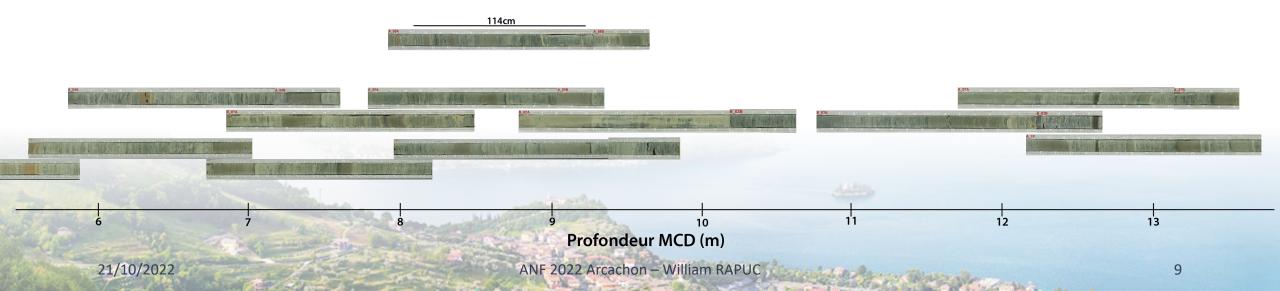


Coring scheme of the 2019 coring

LDB: Recovery core I, Hole B (last core: LDB19-I-B-03)

🗊 📶 55% 🖥 18:21

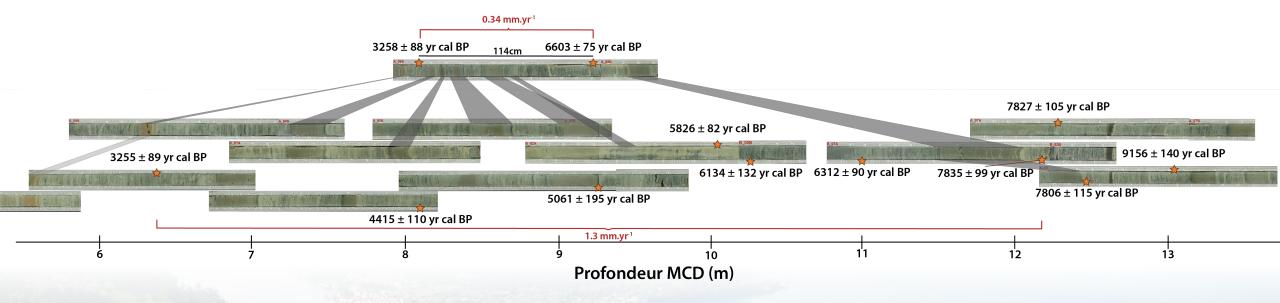
100



- > Core correlations
 - > Is not supposed to be a problem
 - ➤ Many event layers with distinct texture & colour

Thanks to core correlations, XRF and 14C ages we were able to demonstrate that

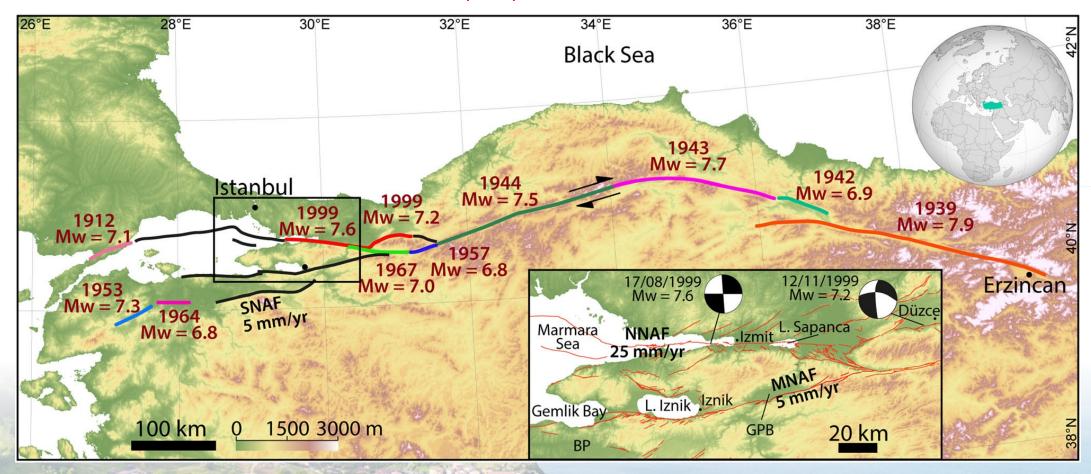
> We were able to compress 8 meters of sediment into a 2 meters long tube



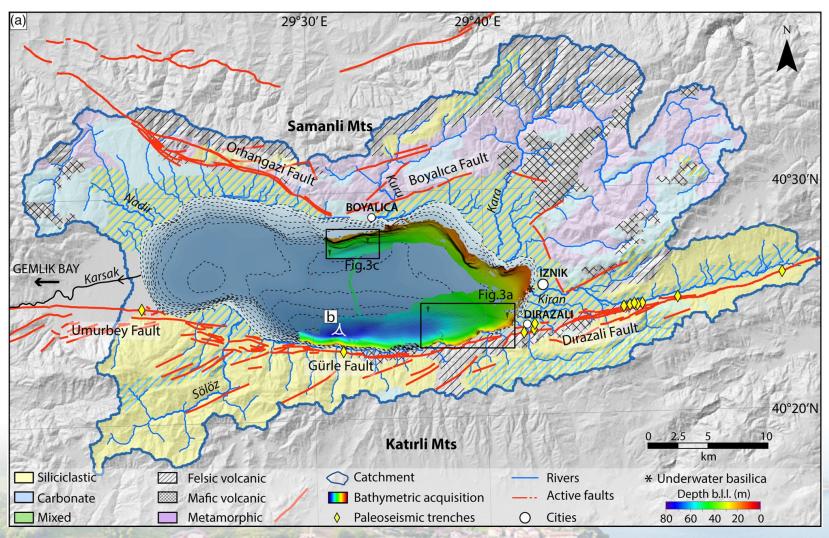
> This is supposed to be linked to an untimely triggering of the coring system

Do you feel unlucky? Do you want to know what you shouldn't do during a fieldwork?

Context: Covid19, mission postponed 2 times, C2FN out due to covid



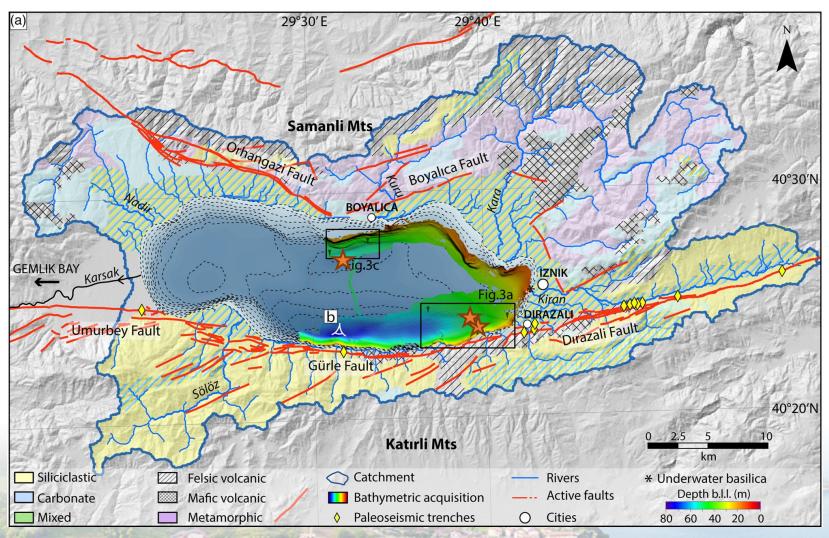
Scientific objectives: paleo-earthquakes chronicle & link with the slide of the Nicea basilica



2021 Coring campaign

- 3 new coring sites
- Multirun sediment sections
 - International team
 - 3 groups (tectonic, shore investigation, coring)
 - Covid19 context

Scientific objectives: paleo-earthquakes chronicle & link with the slide of the Nicea basilica



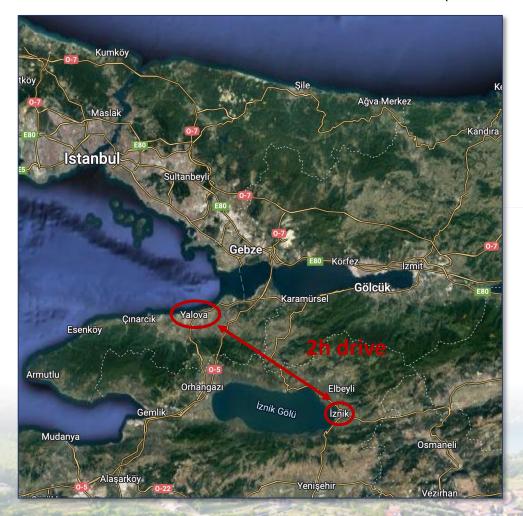
2021 Coring campaign

- 3 new coring sites
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What happened?

1st STEP

➤ Collection of the trucks at the customs (Ro-Ro terminal)



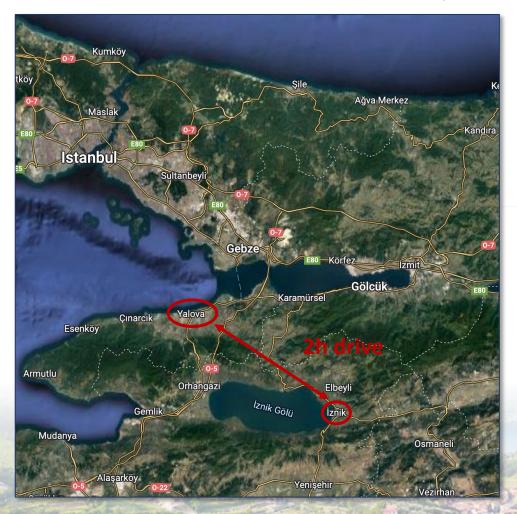




What happened?

1st STEP

Collection of the trucks at the customs (Ro-Ro terminal) + Movie making





What happened?

1st STEP

PhD student waiting for his mission to finally start...

Nothing happened, waiting under the surveillance of Atatürk

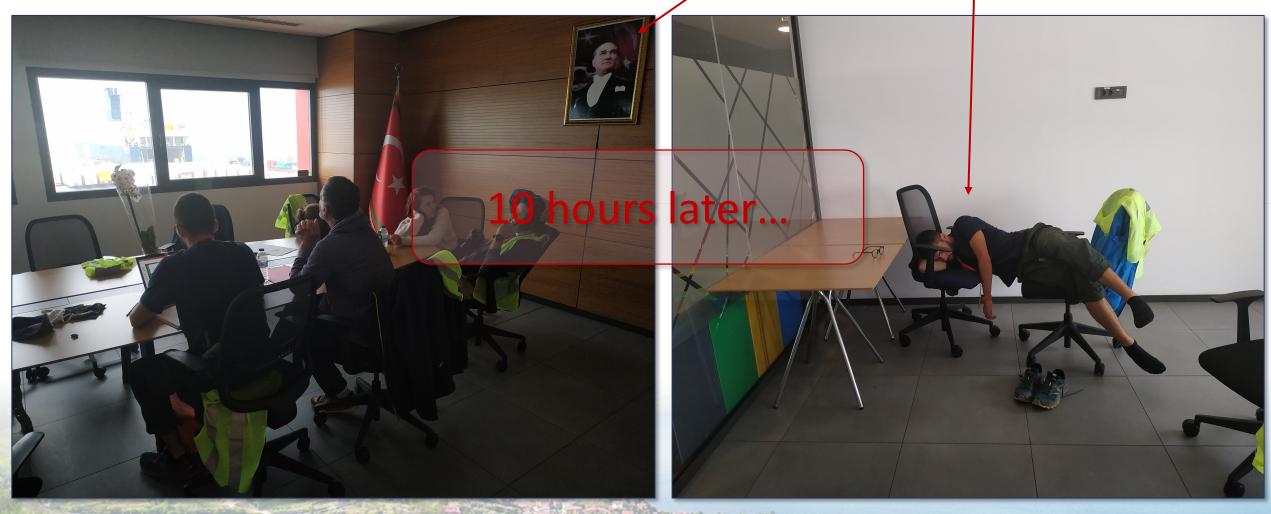




1st STEP

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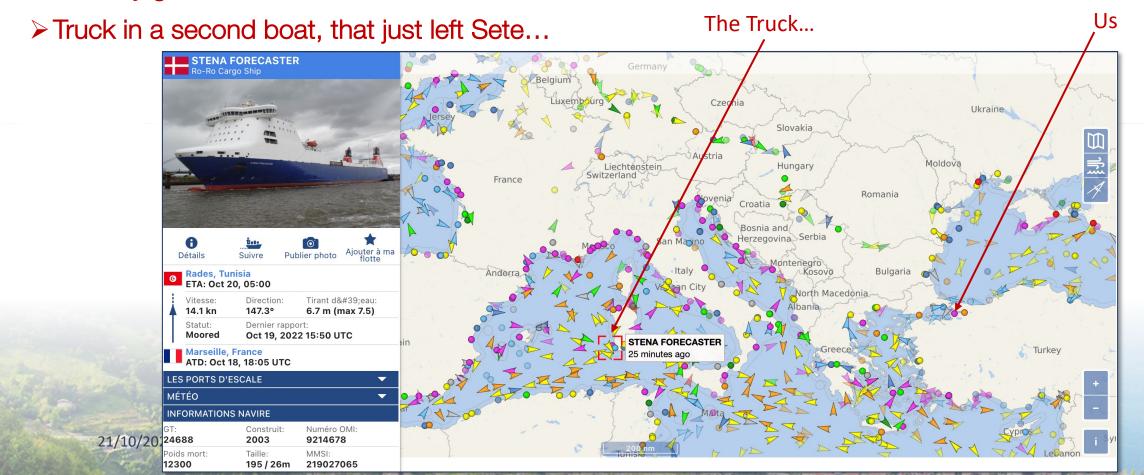
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1st STEP

- ➤ Nothing happened, waiting under the surveillance of Atatürk
- ➤ No truck in the boat... problem of loading in Sete arbour
- > We only got the Climcor Van



What happened?

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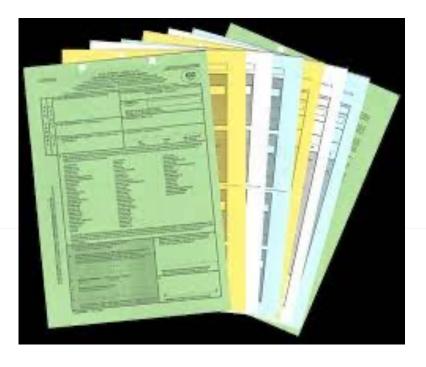


What happened?

1st STEP... 3 days waiting

- > How to get out of a custom quickly with two trucks?
- > Having all the papers help
 - ➤ Carnet ATA
 - > Turkish immatriculation
 - > Etc.





What happened?

1st STEP... 3 days waiting

- ➤ How to get out of a custom quickly with two trucks?
- > Having all the papers help
 - Carnet ATA
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 - > Etc.

> But bakchiche is the most helpful





What happened?

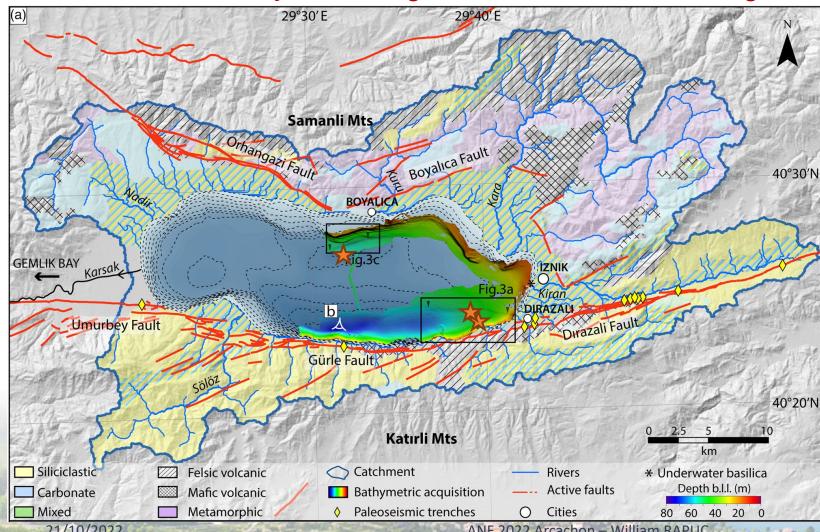
1st STEP... 5 days lost at customs

- > Be prepared to have problems at customs
- ➤ Increase the mission length accordingly



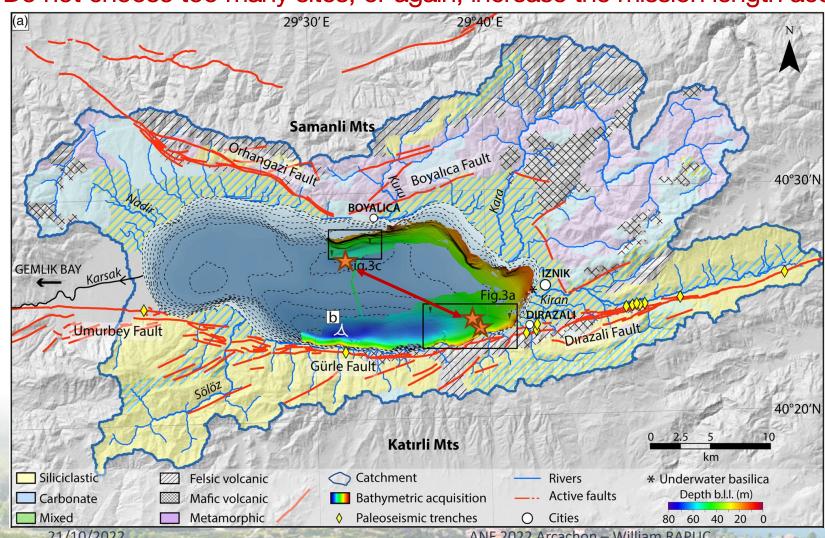
2st STEP... Coring

> Do not choose too many sites, or again, increase the mission length accordingly



2st STEP... Coring

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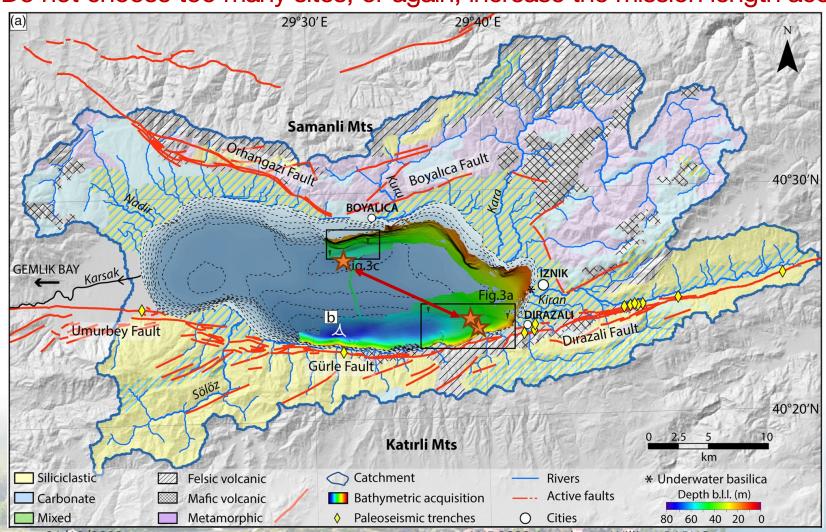


15 km = 4-5 hours of navWhen everything is going well...

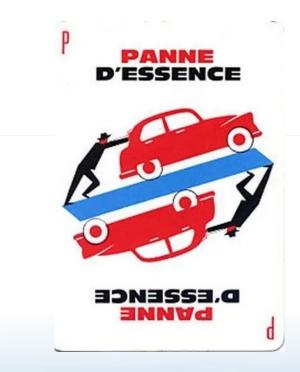
But...

2st STEP... Coring

> Do not choose too many sites, or again, increase the mission length accordingly



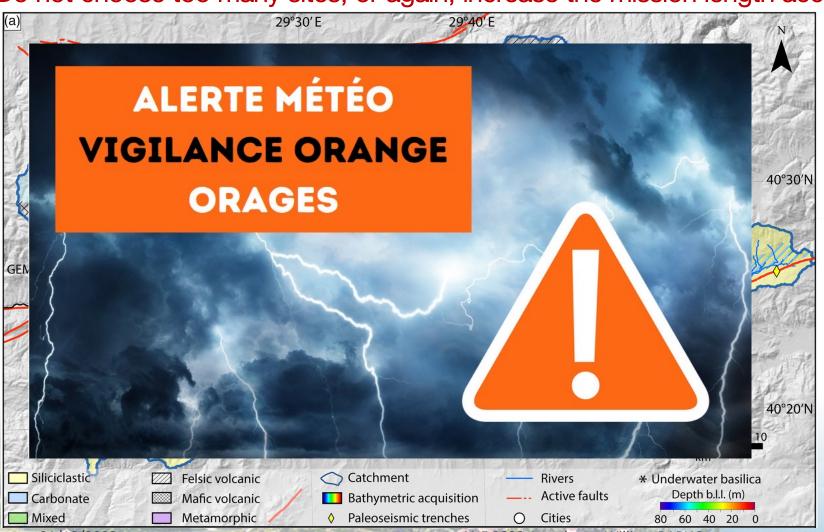
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What happened?

2st STEP... Coring

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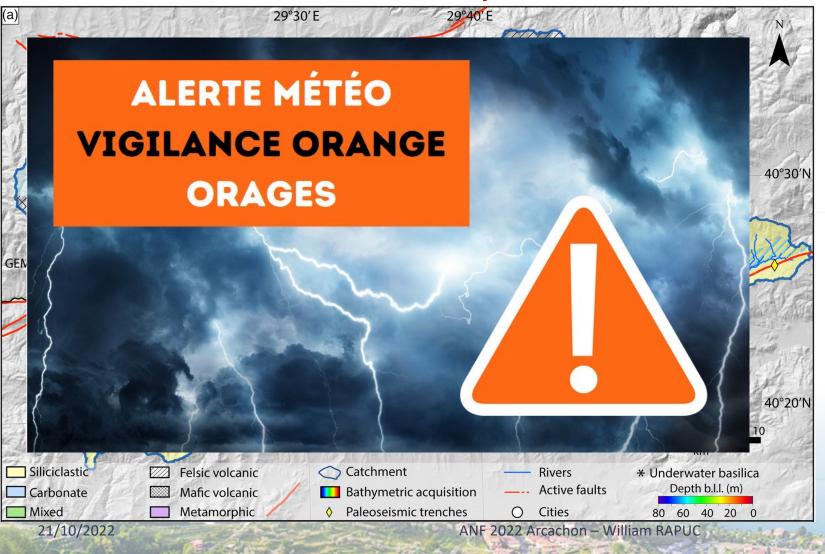




What happened?

2st STEP... Coring

> Do not insist when the weather is not with you...





What happened?

Last STEP... Dismantling

- > Do not insist when the weather is not with you...
- > When you're not able to unhook, unhook anyway...





Summary

- > Be prepared to have problems at customs
- > Increase the mission length accordingly (two weeks is too short for this kind of field work)
- > Do not choose too many sites
- > Do not insist when the weather is not with you...
- > When you're not able to anchor, go back to the shore
- > Never let the final decision to people not present on the field
- > Scientific objectives should not take precedence over safety

> Decide before the mission who is who

Head of mission



21/10/2022

Principal investigator



Chief corer



Who makes which decision?!

