

# A field camp on marine biodiversity and ecology: Brignogan 2018-2022



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# Who?

- 3 teachers:



Olivier Gauthier  
Numerical Ecology



Gauthier Schaal  
Benthic Ecology

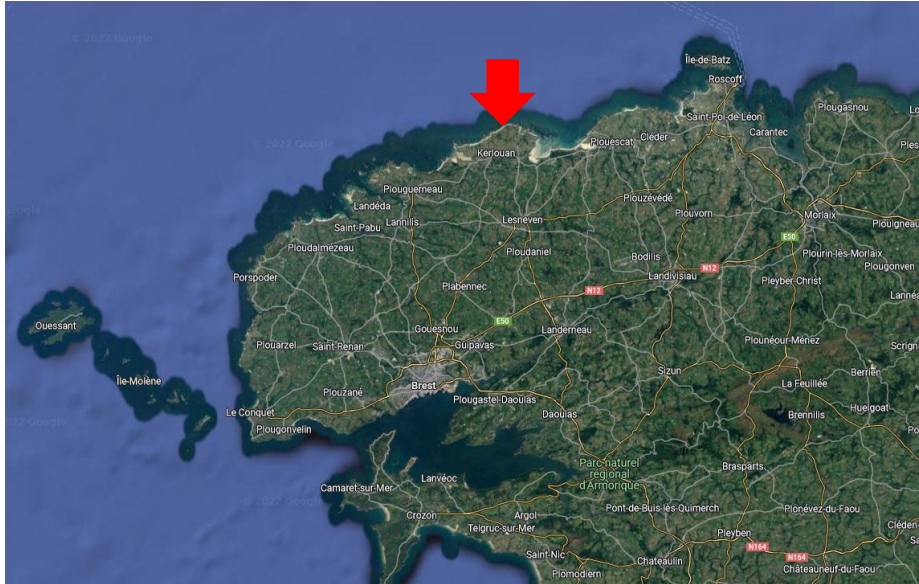


Jacques Grall  
Benthic Taxonomy

- 10-12 master (1st year) student

Marine Biology master program, marine ecosystems and communities speciality

# Where?

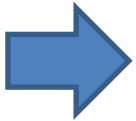


Brignogan-Pages, Northern Brittany





# Why?



Initiation of a temporal survey within an intertidal coastal bay, to address spatial and temporal variability patterns at the scale of communities

- Science is an interconnected continuum, from sampling design conception to data valorization
- The acquisition of skills is favored in an integrated framework
- The acquisition of skills is favored in an intensive, off-the ground context
- Student feel more valued in an integrated context

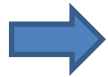
# How? (before)

- A general presentation of the general objectives, and the local context



Students are required to provide a synthetic proposal (scientific questions, hypotheses, sampling plan) a few weeks (days) before

- Numerous exchanges about feasibility, scientific relevance, logistics...



Final proposal is ready by the beginning of the field camp

# How? (during)

Day	Main occupation
Monday	Sampling
Tuesday	Sorting
Wednesday	Sorting
Thursday	Identifying
Friday	Identifying
Saturday	Data analysis
Sunday	Data analysis

- 1 coordinator by day
- Constant brainstorming whenever necessary (scientific questions, hypotheses, taxonomy, data analysis)



25 sampling stations for benthic fauna

75 replicates

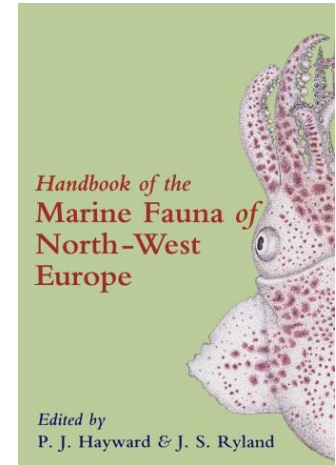
>1 500 specimens identified (in 24h)

5 beach trawl samples for demersal assemblages

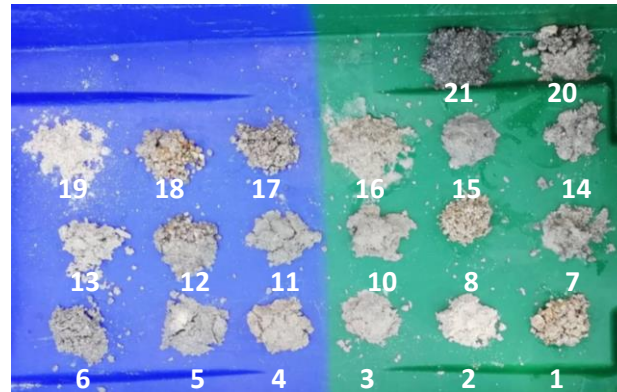








Température  
↑



Granulométrie



Hauteur  
de carotte



Temps d'émersion

# Sorting fauna





# Identifying





Still identifying

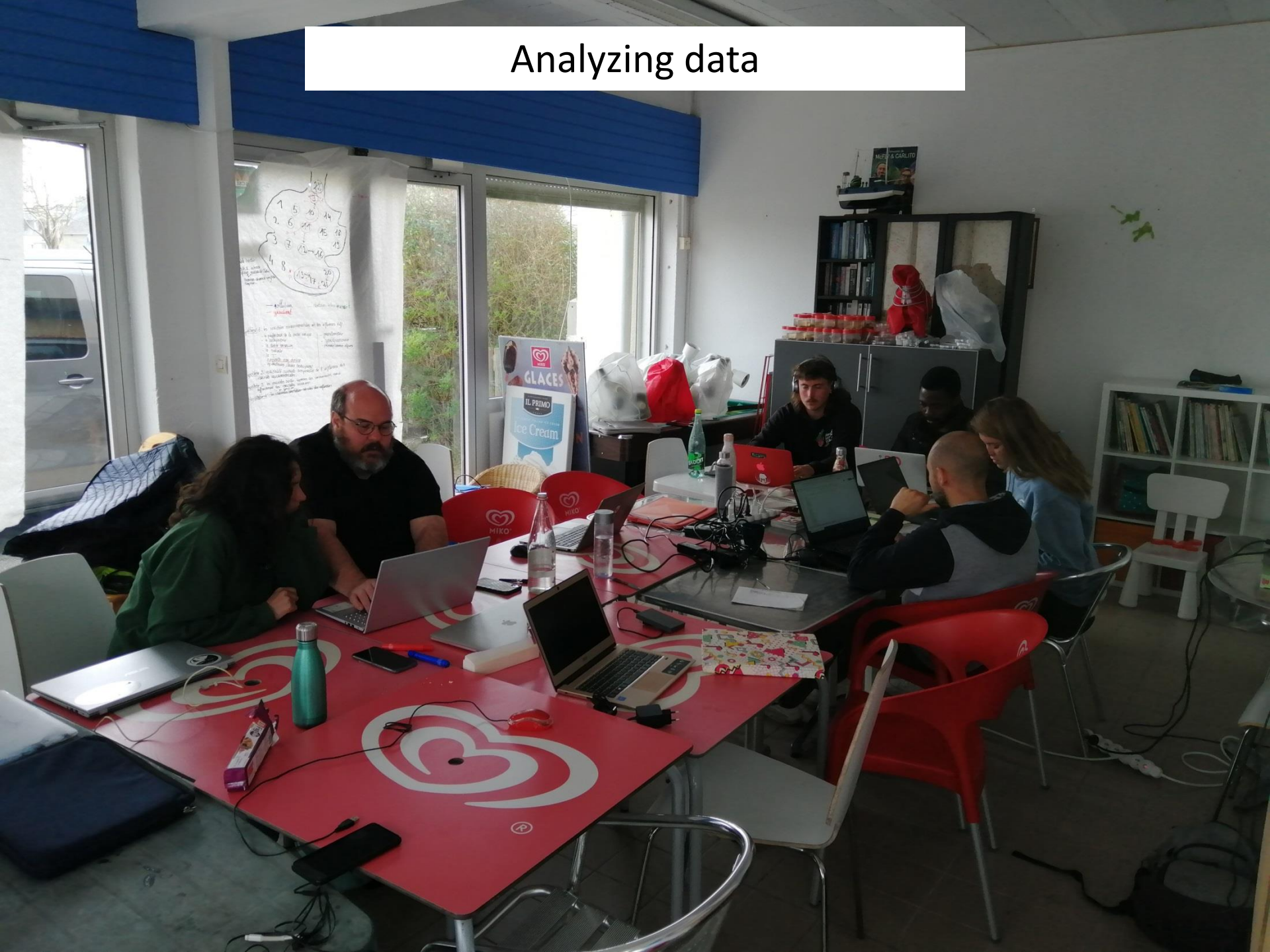


# Brainstorming





# Analyzing data





# Breakfast





# Dinner



(not too much) Free time





Hard working late in the night



# How? (after)

- 2 days after returning from the field, a collective oral evaluation
- Peer evaluation

