

Forte mobilité des géniteurs de saumon entre affluents de la baie du Mont Saint Michel révélée par télémétrie

Emilien LASNE, Julien TREMBLAY, Armand
MICHELOT, François MARTIGNAC,
Guillaume Forget, Mathieu ANFRAY...

DECOD, U3E, OFB (USM et SD)

JST MIAME 2024 : Errance, dispersion, métapopulation : les migrateurs
amphihalins dépassent les bornes !

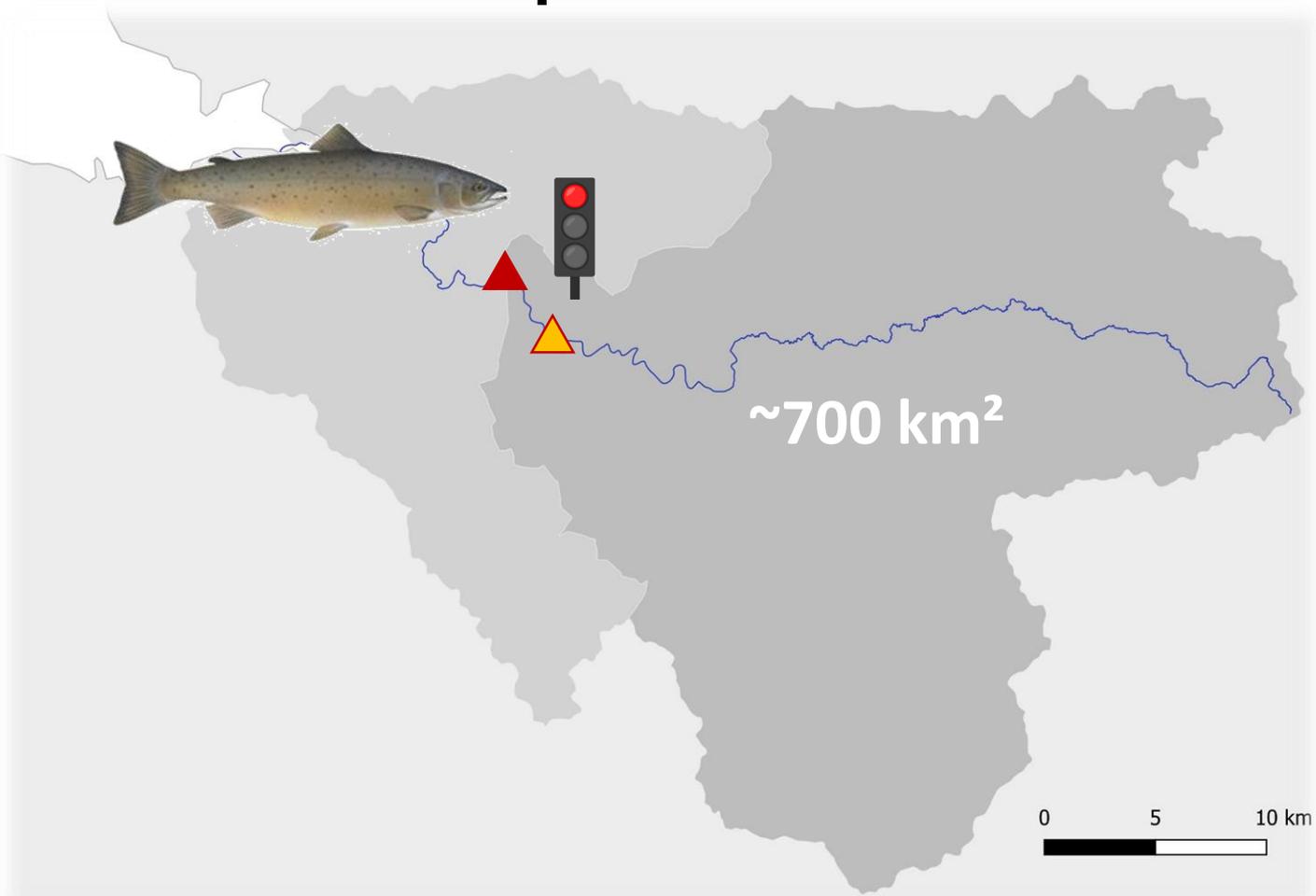
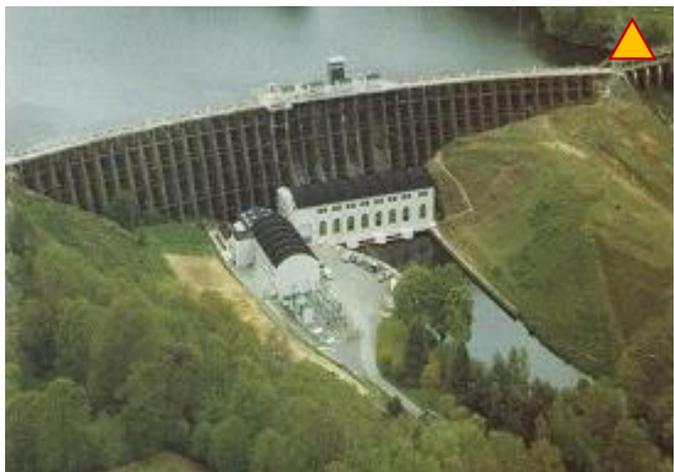
Contexte local : continuité écologique

Depuis 1919

Roche-qui-Boit (16m)



Vezins (36m)



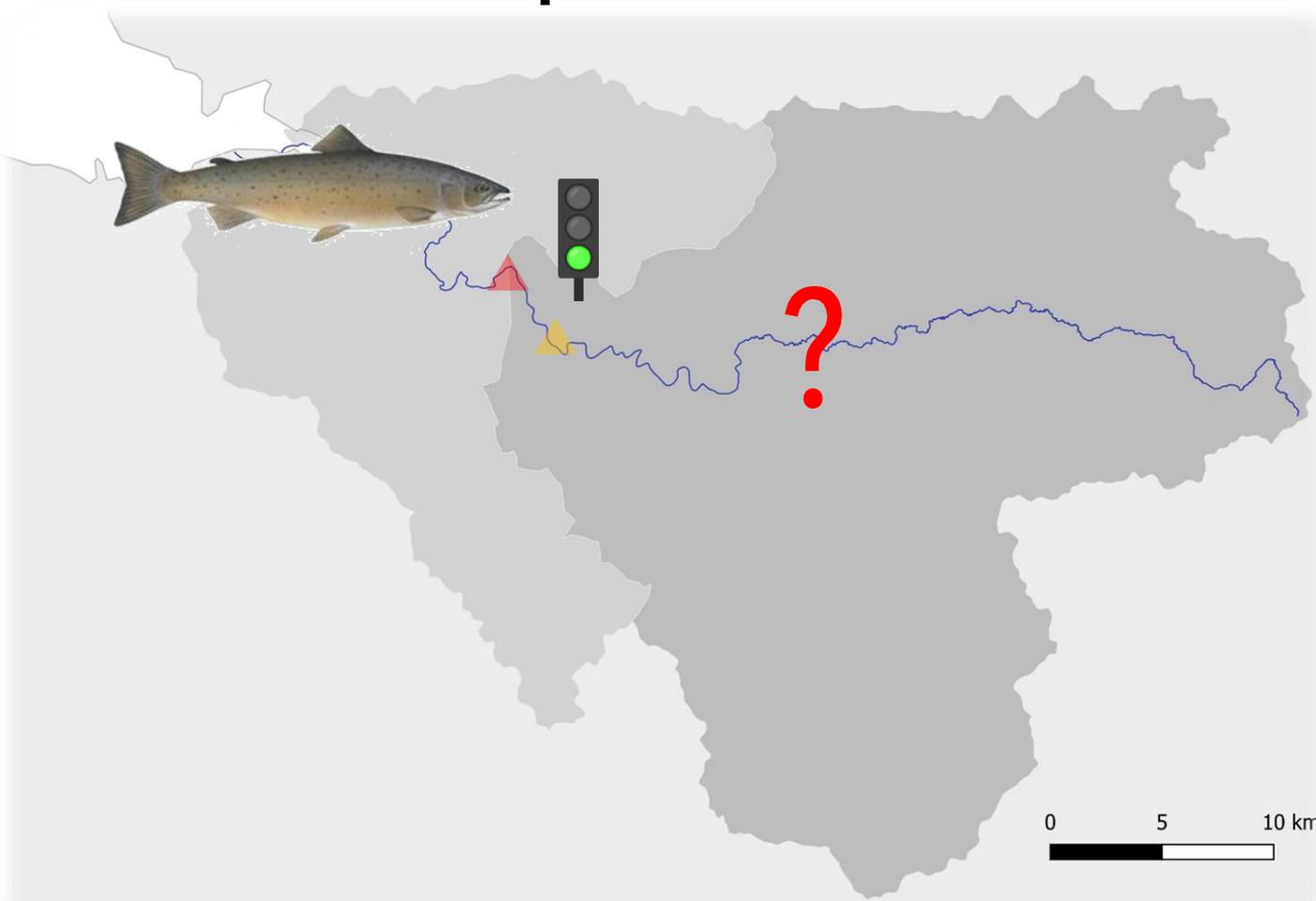
Contexte local : continuité écologique

Depuis 2022

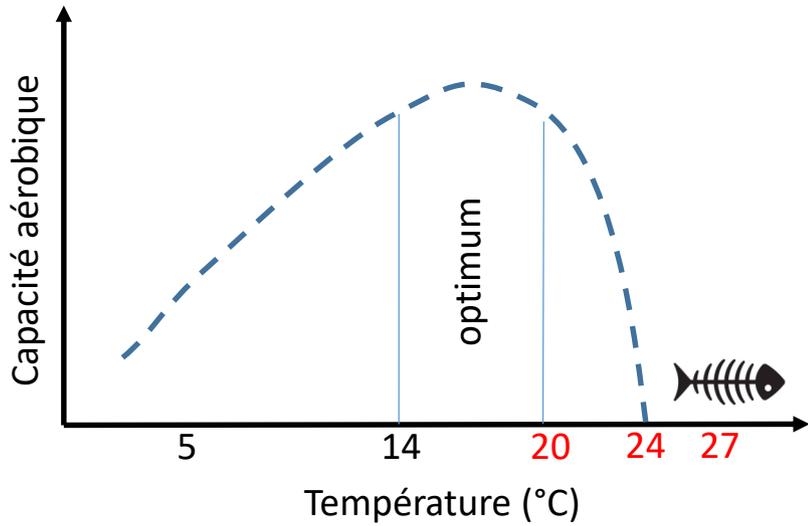
Roche-qui-Boit (16m)



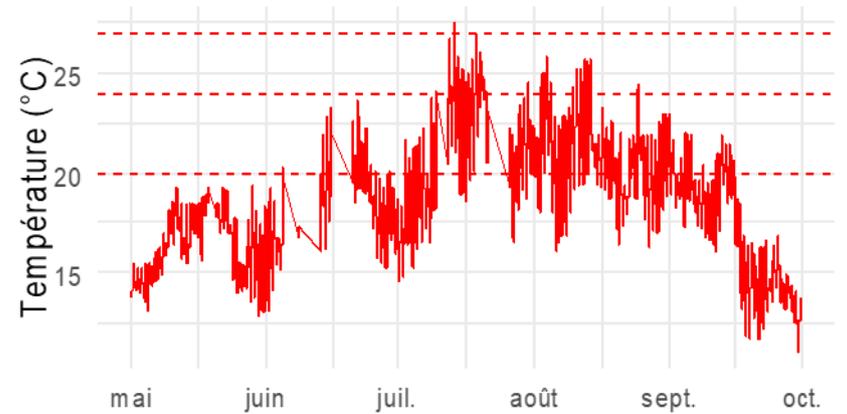
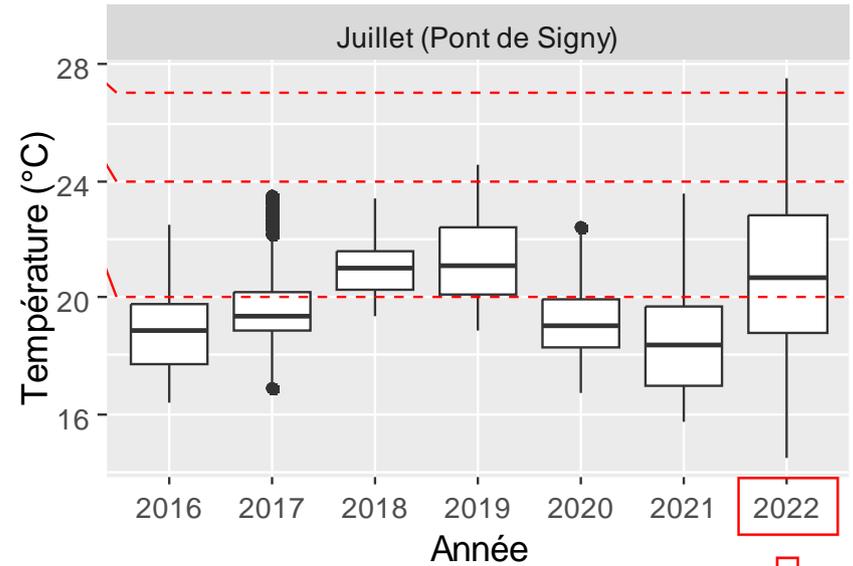
Vezins (36m)



Contexte global : changement climatique



(d'après la synthèse de Breau, 2013)



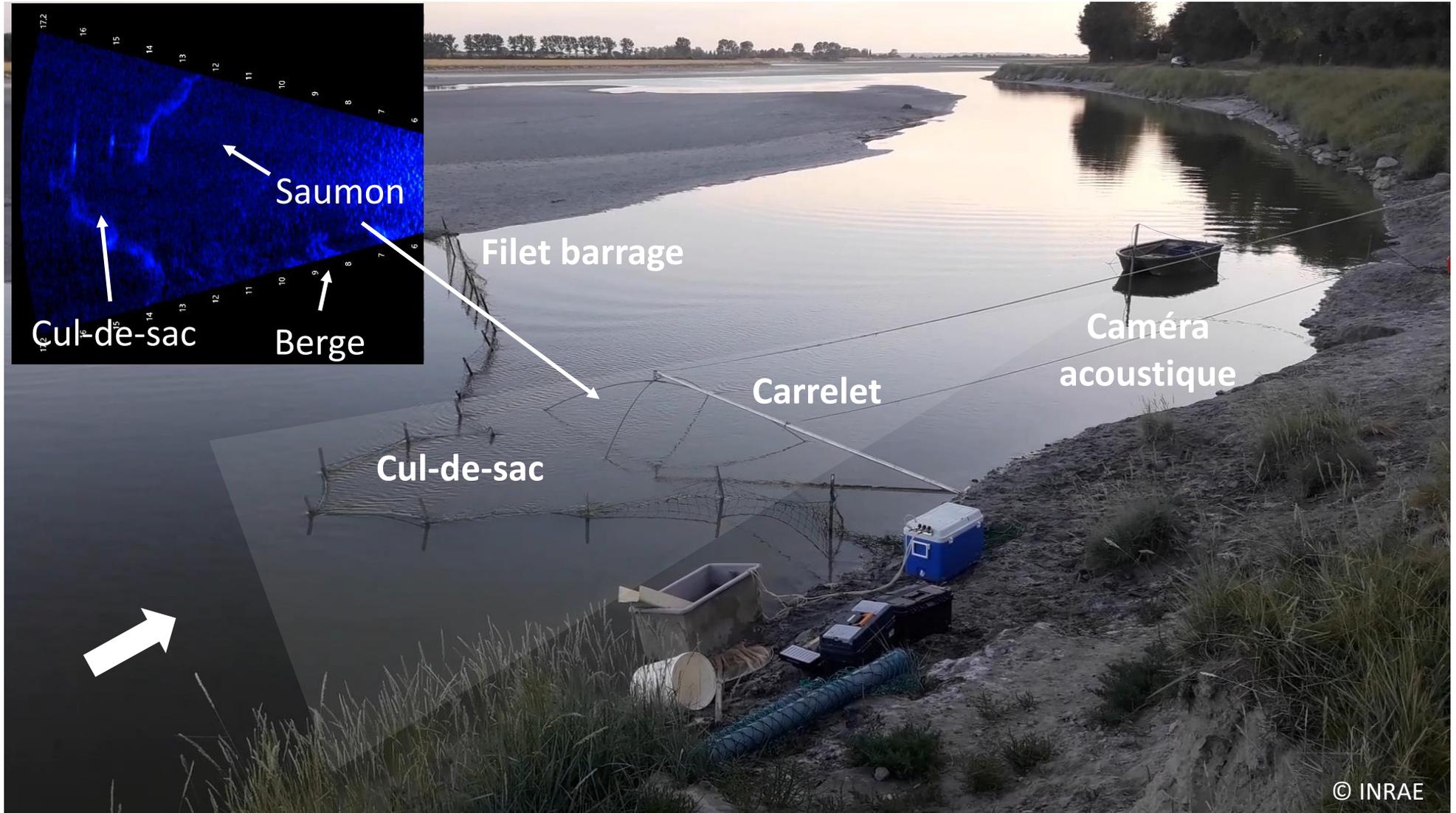
Contexte JST MIAME :

Errance, dispersion, métapopulation : les migrateurs amphihalins dépassent les bornes !



- Déplacements entre fleuves?
- Fréquence? Période?
- Signification écologique?

Méthode



1. marquage



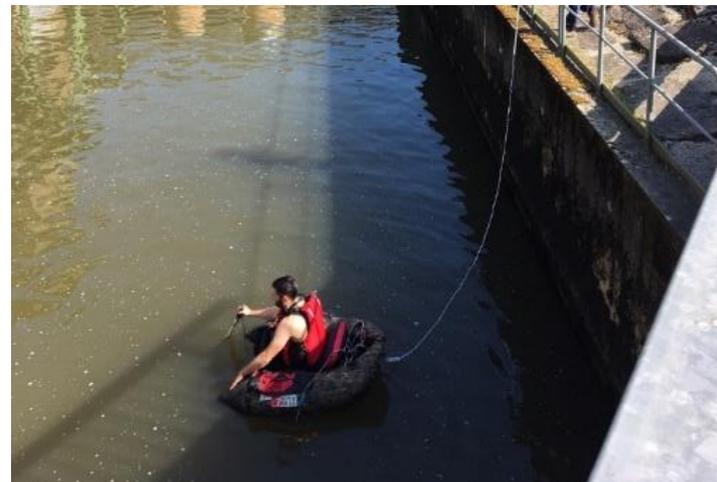
2. récepteurs fixes

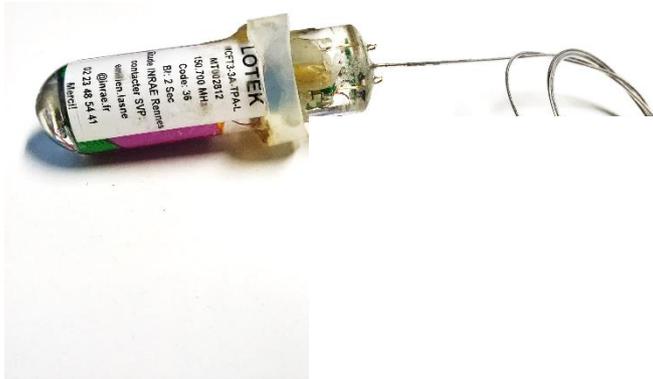


3. récepteurs mobiles

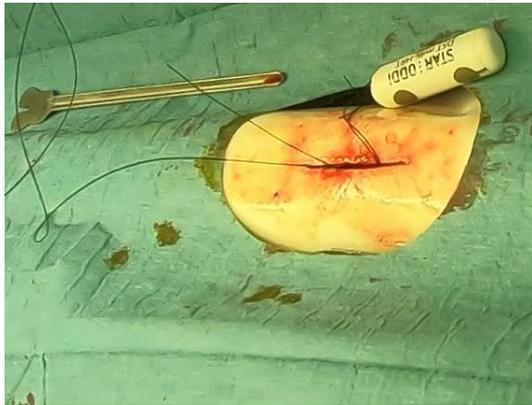
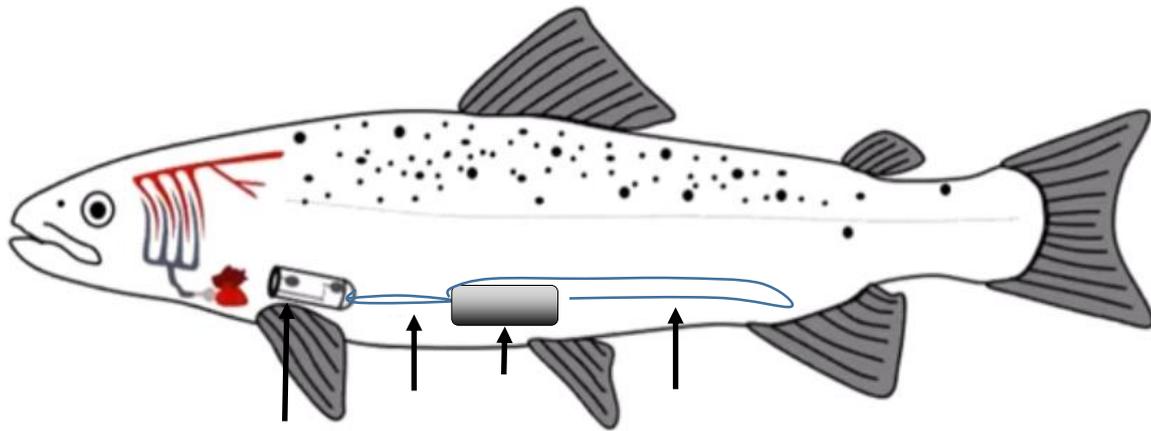


4. récup. des émetteurs





Localisation
+
Température
Activité (accéléromètre)
Pression -> profondeur



Localisation
+
Température
Activité (accéléromètre)
Pression -> profondeur

STAR: ODDI
DST milli-HRT
MHL 1073 CE

17/12/17 A3

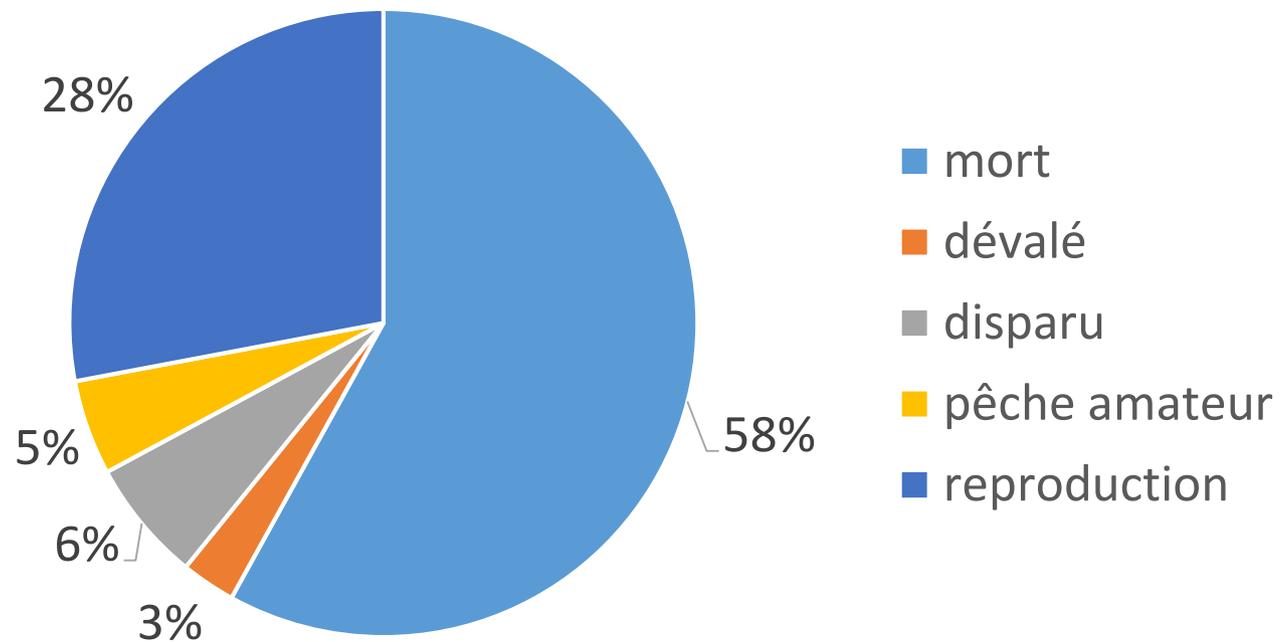
Fréquence cardiaque, ECG



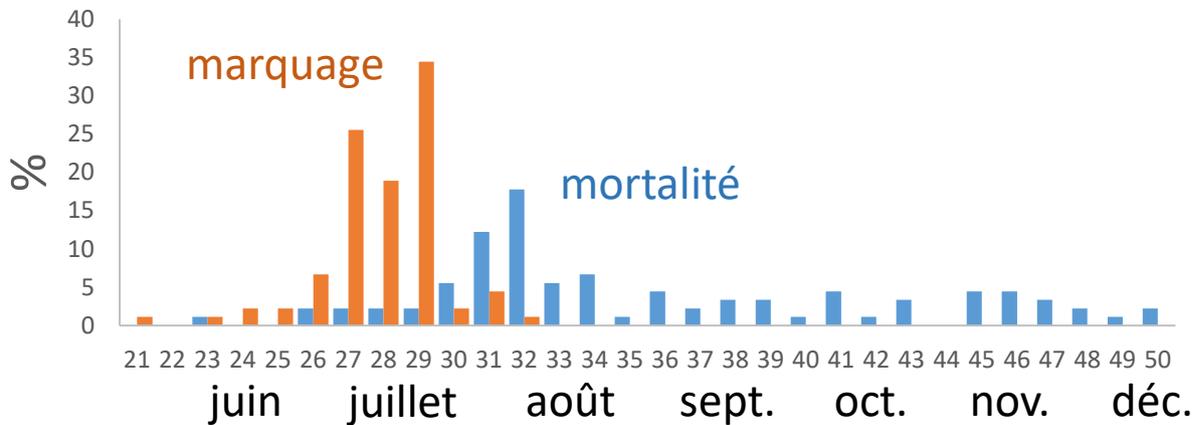
Synthèse des données disponibles

	2019	2020	2021	2022	2023	TOTAL
sessions de capture	13	10	15	>8	>12	>58
	30 (8)	34 (22)	34 (23)	18 (13)	27 (16)	143 (82)
	-	-	-	5 (2)	14 (10)	19 (12)

Devenir des individus sur l'ensemble de la période 2019-2023 (n=143)



Periode de mortalité (n=90)



Durée de vie estimée (jours)

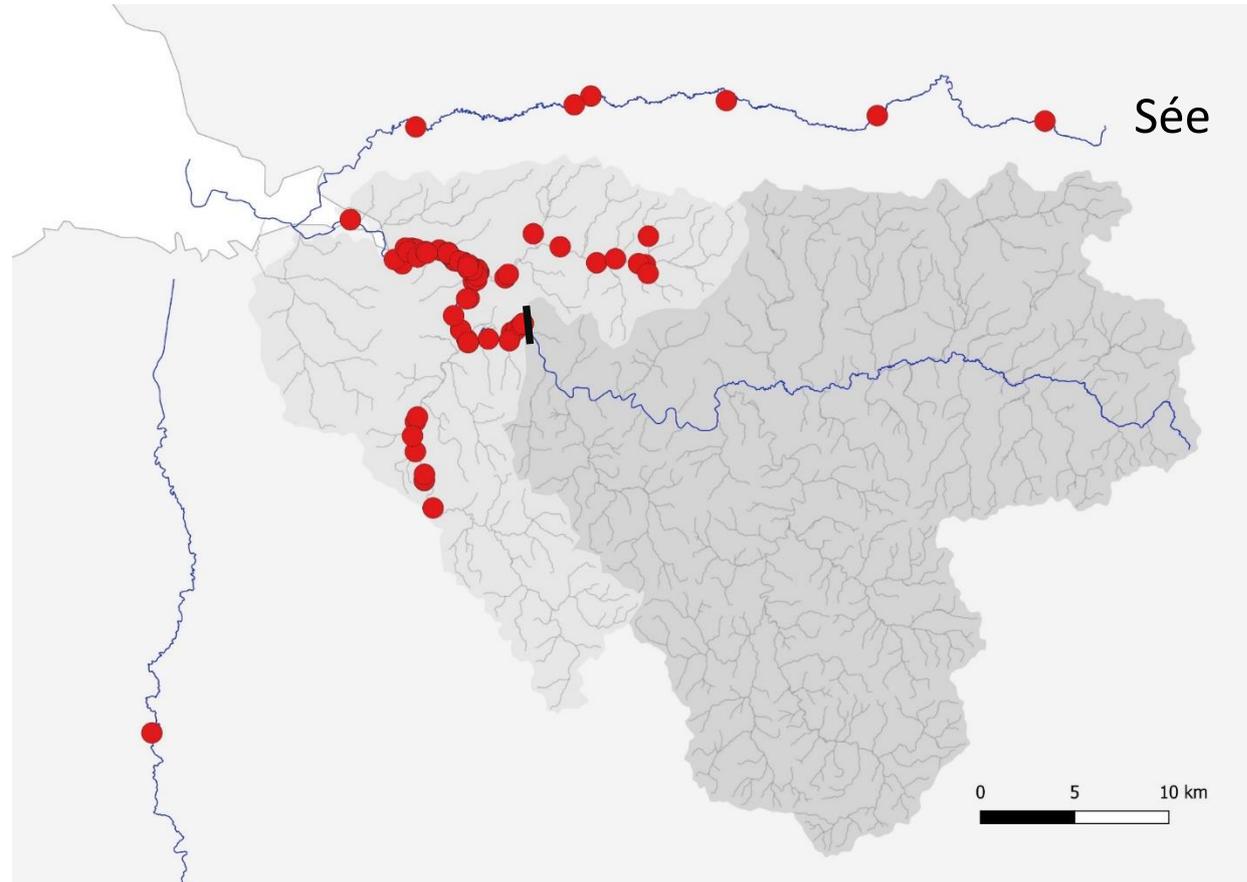
Moyenne	55
Mediane	40
Q1	21
Q3	86
Min	3
Max	157

Contexte local : continuité écologique

Avant arasement du dernier barrage



n = 98



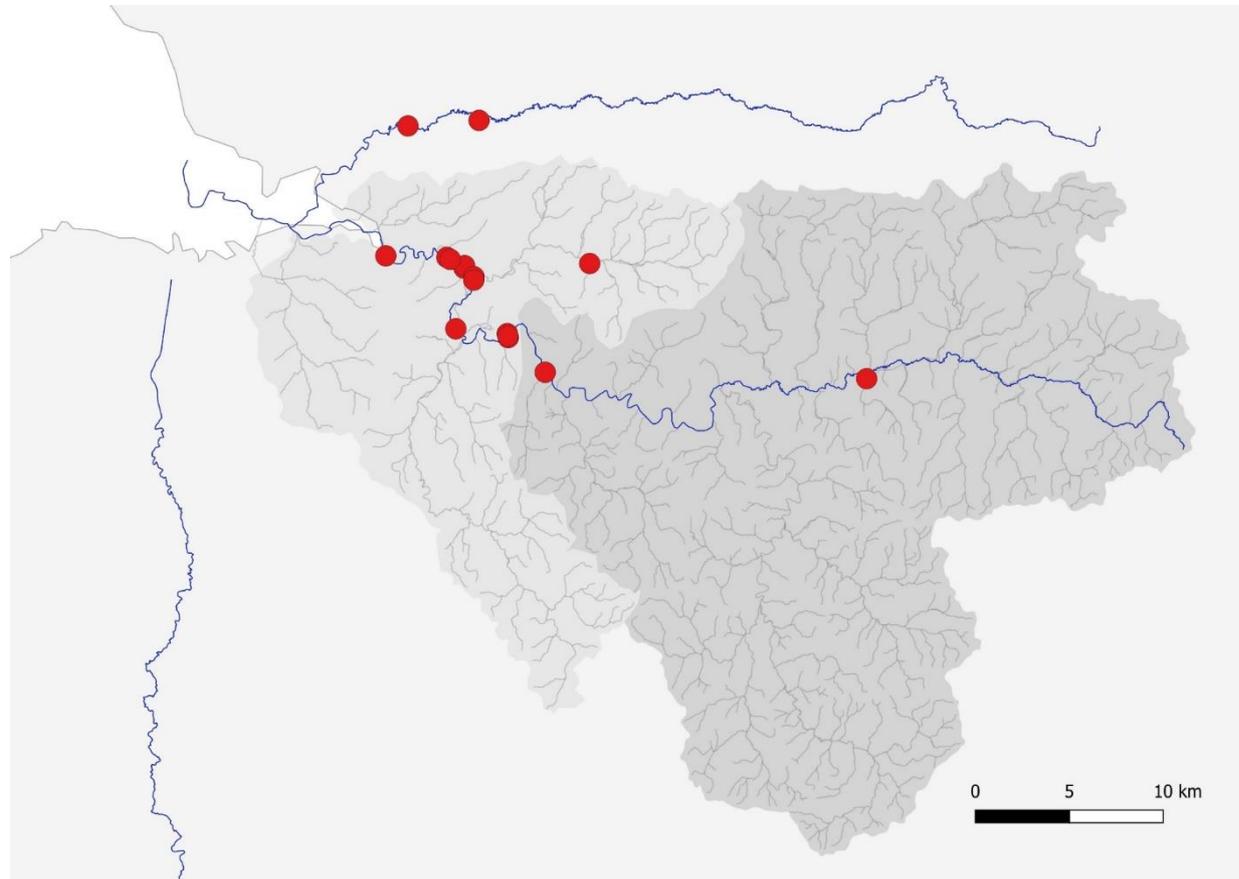
Couesnon

● Dernière détection des saumons marqués

L'année de l'arasement



n = 18

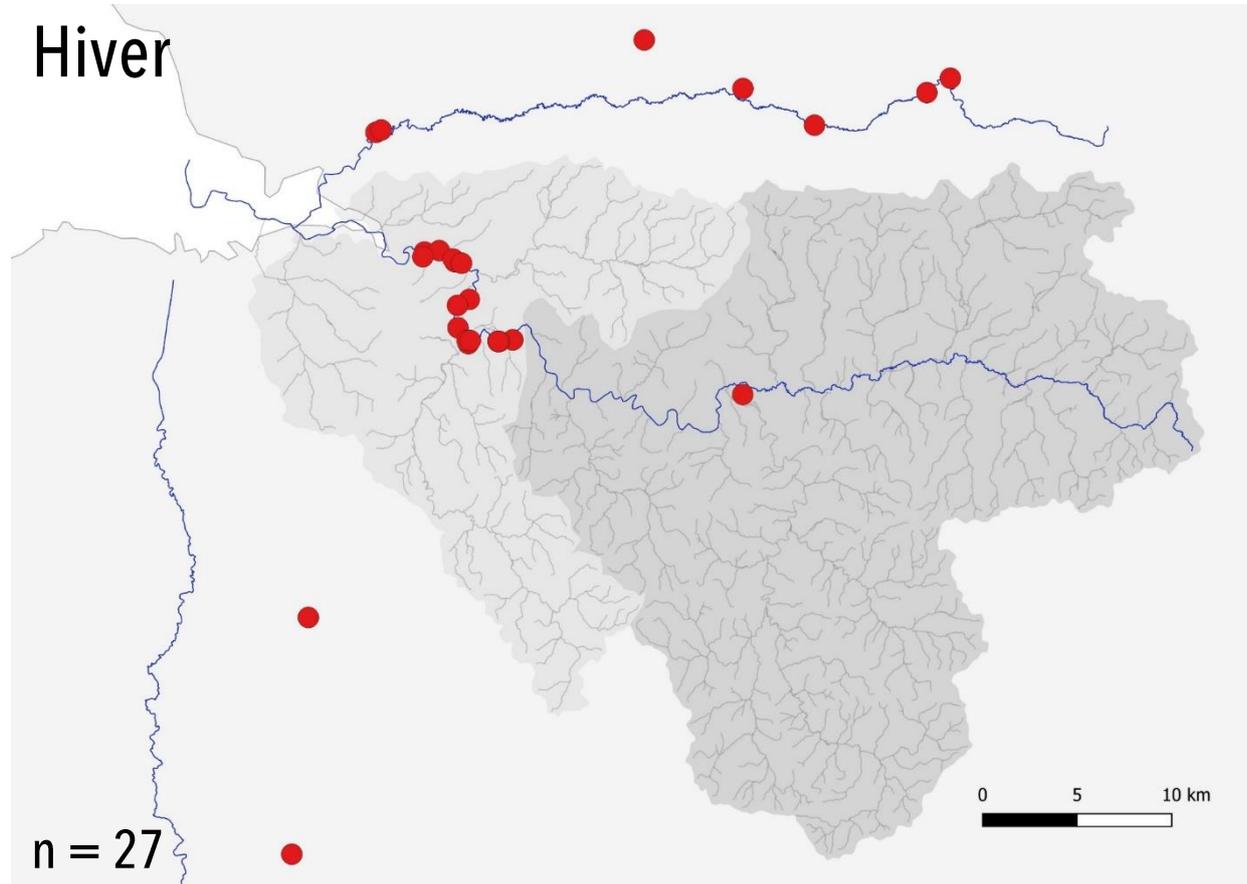


● Dernière détection des saumons marqués

L'année suivant l'arasement

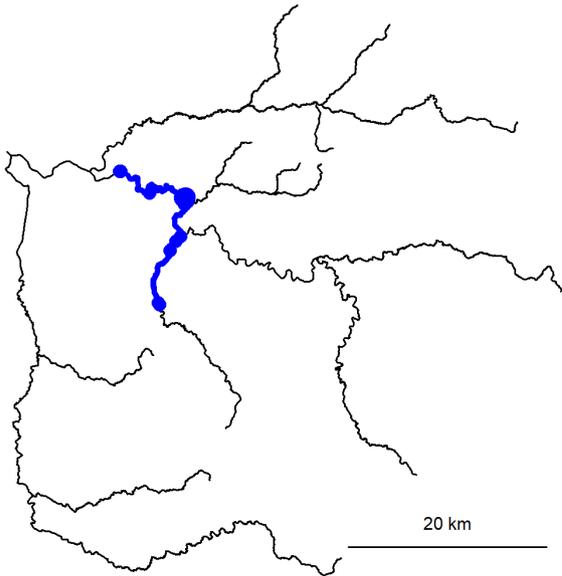
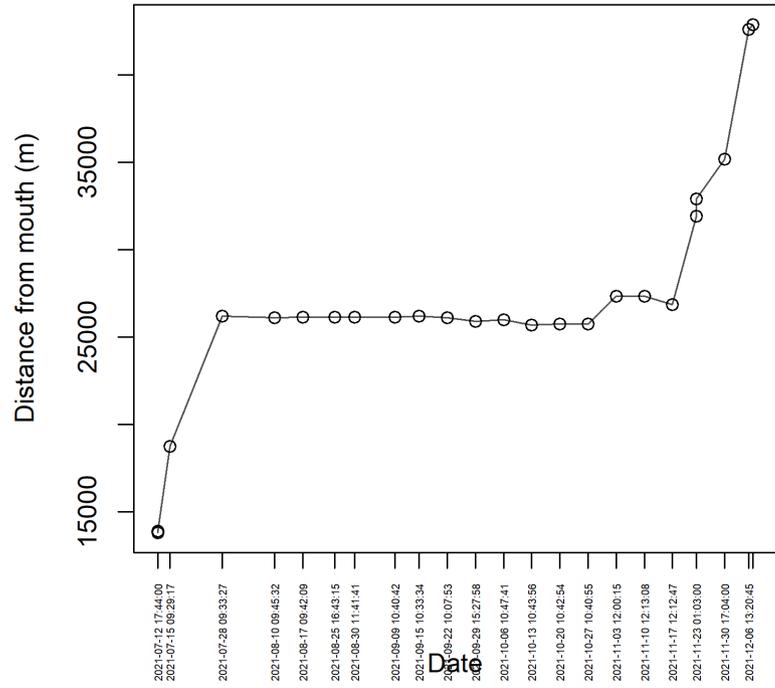


n = 27

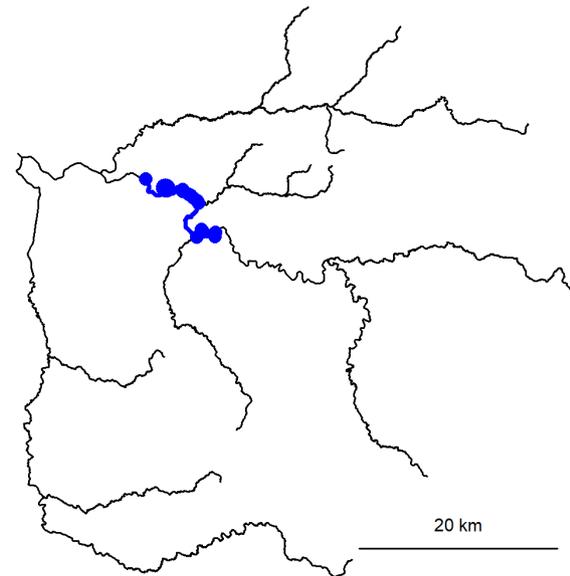
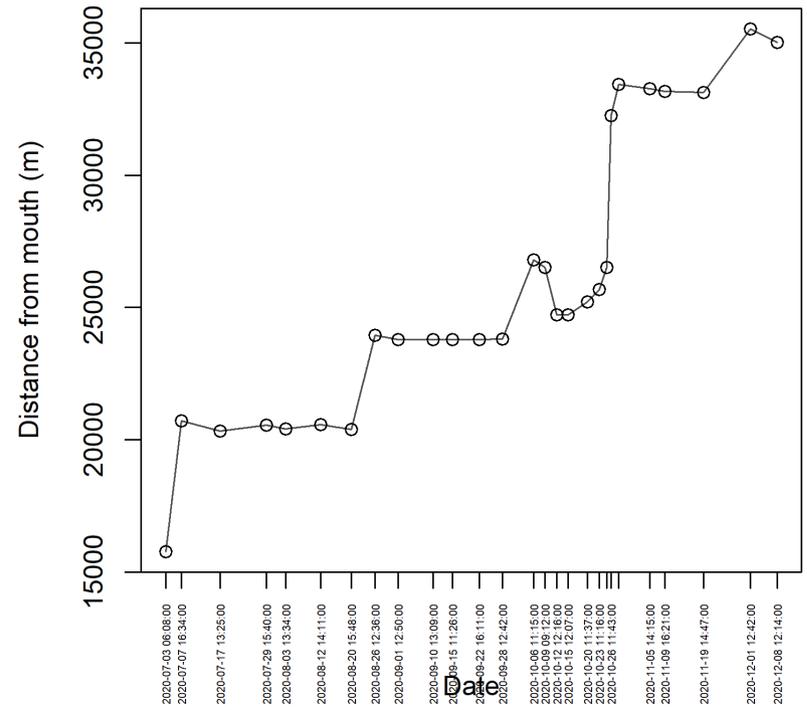


● Dernière détection des saumons marqués

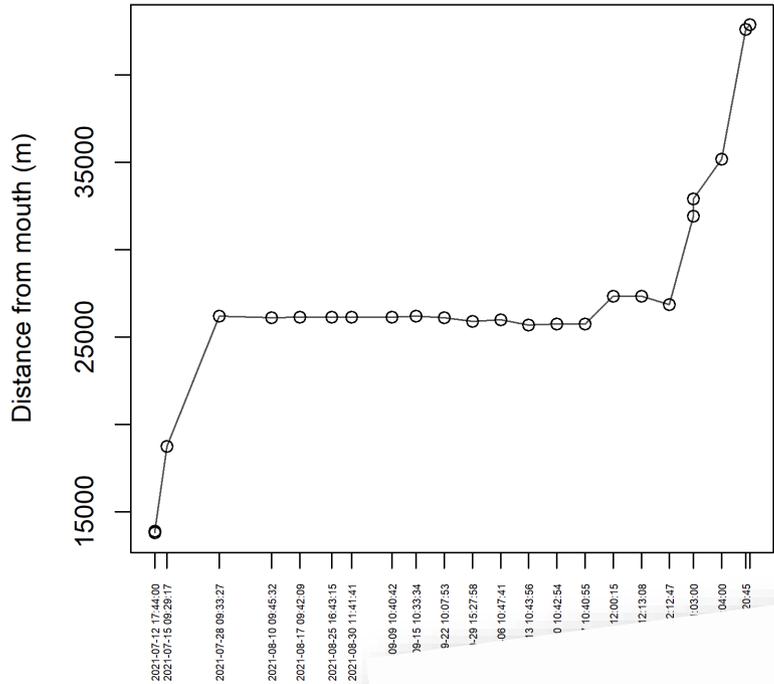
ID21-047



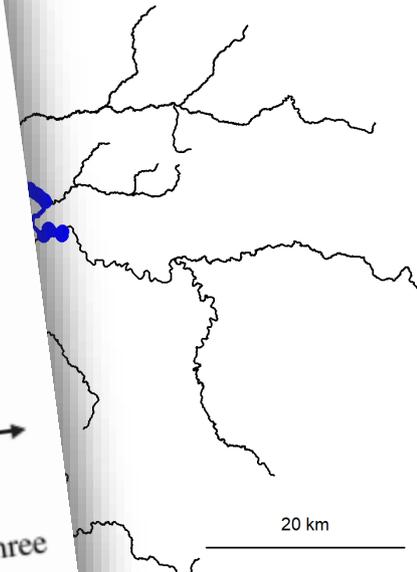
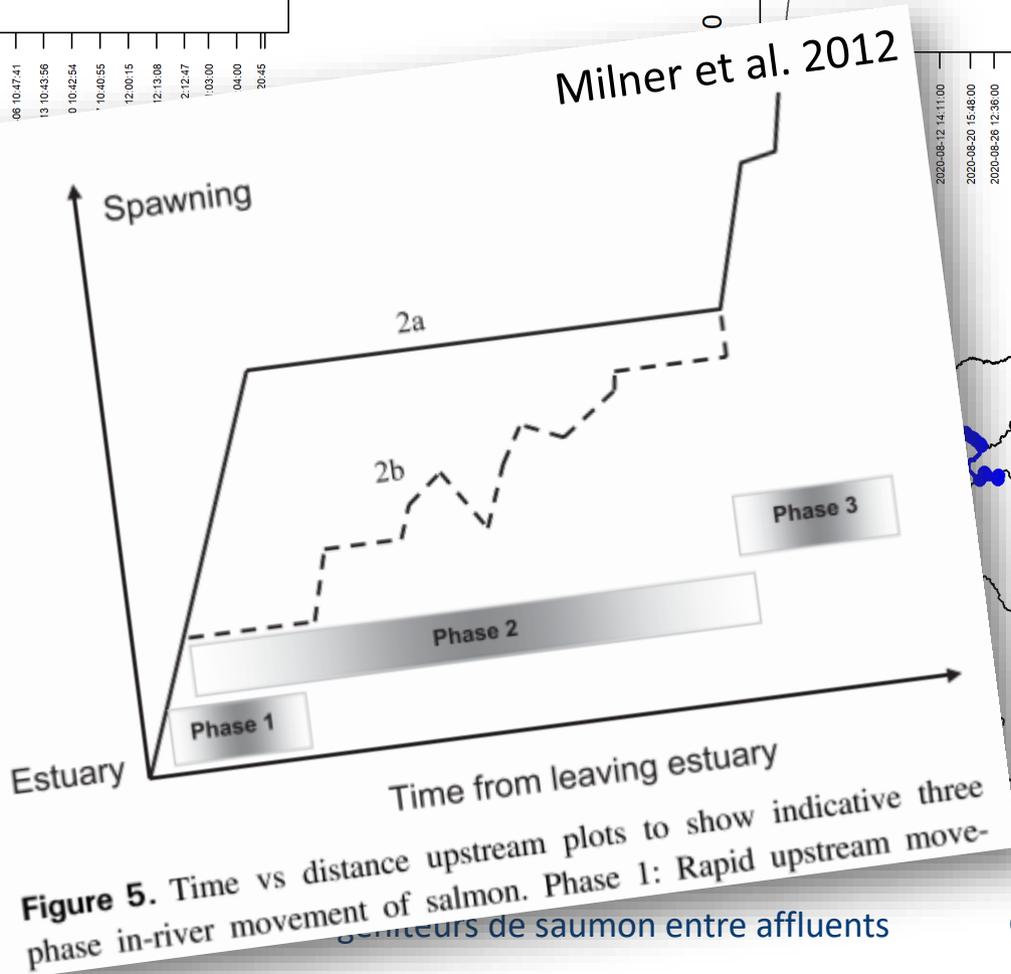
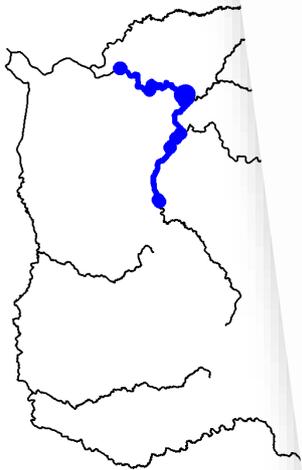
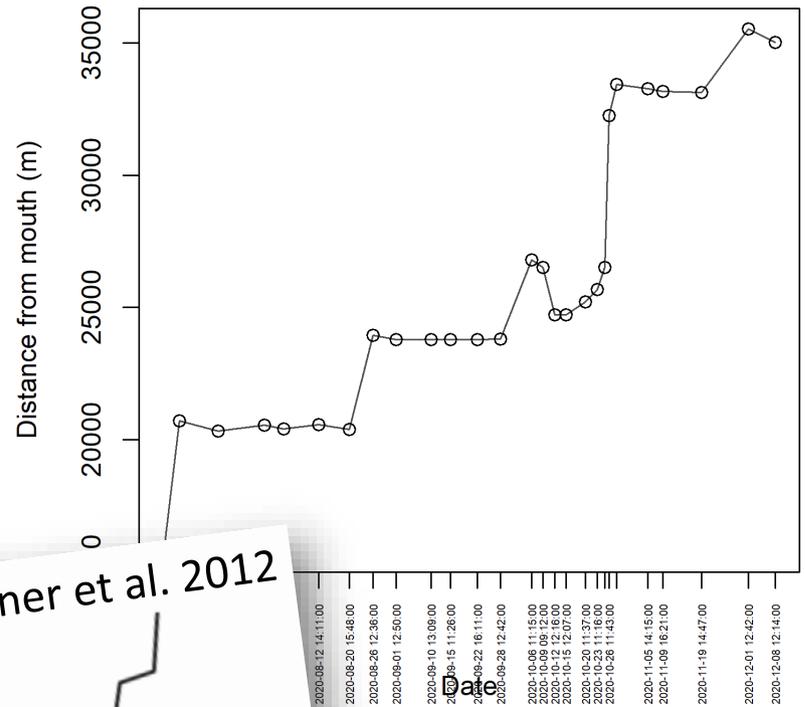
ID20-050



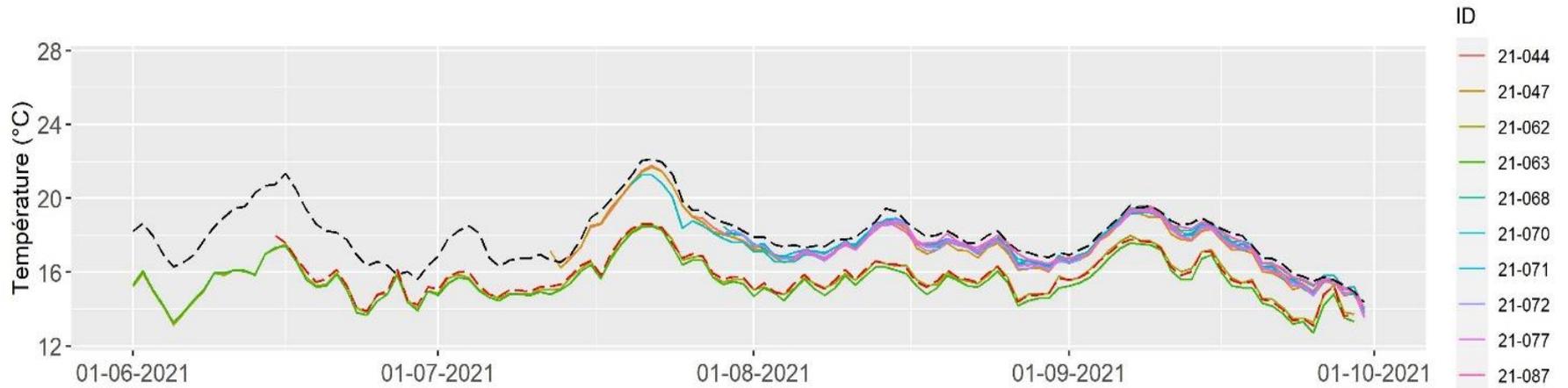
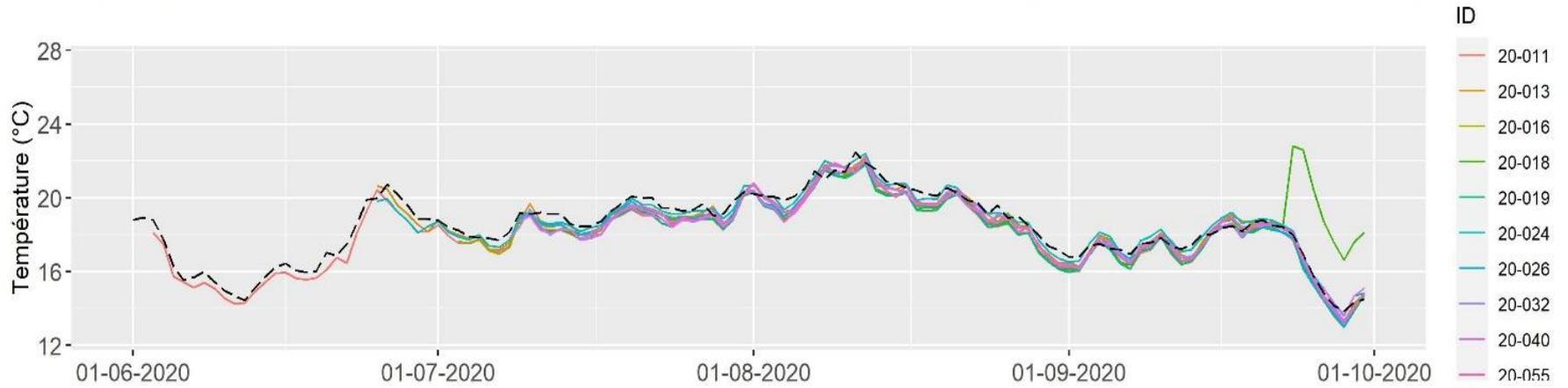
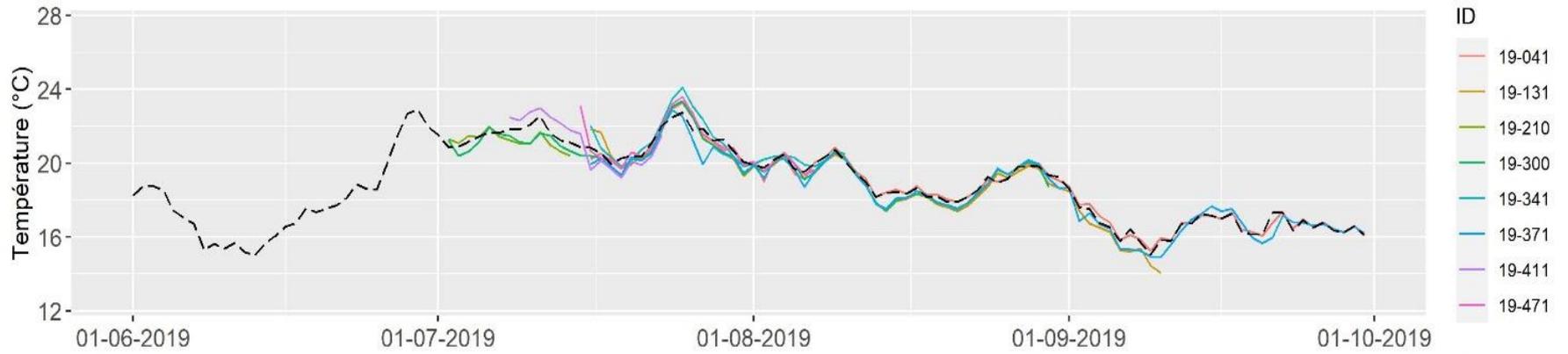
ID21-047



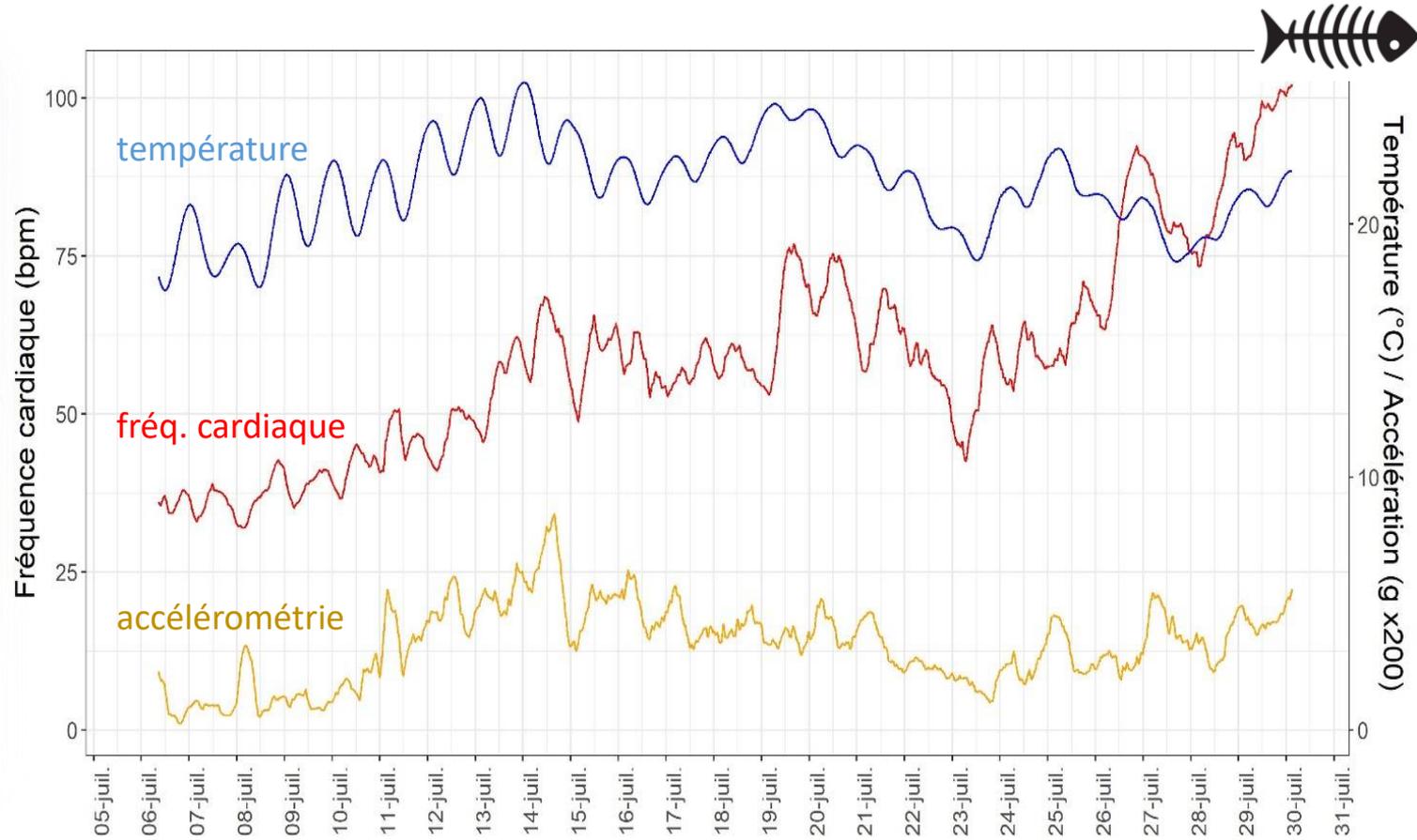
ID20-050



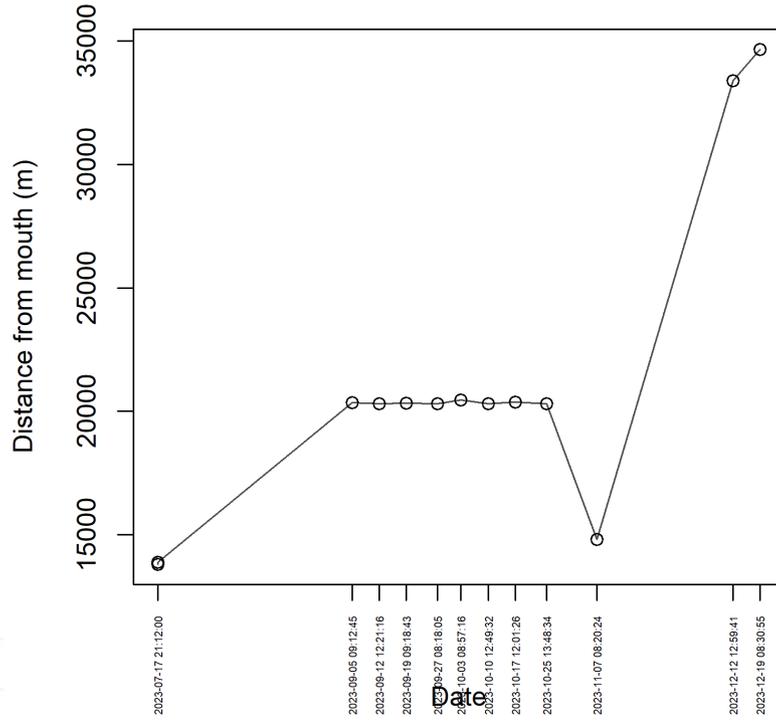
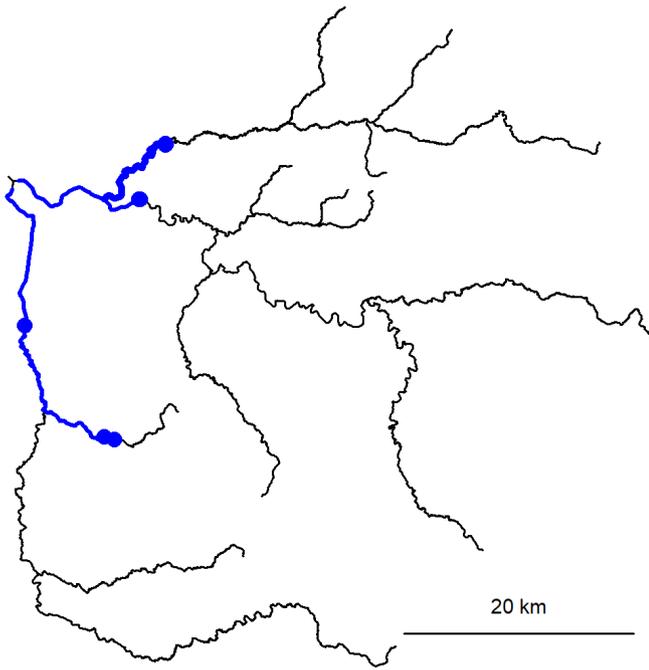
Contexte global : changement climatique



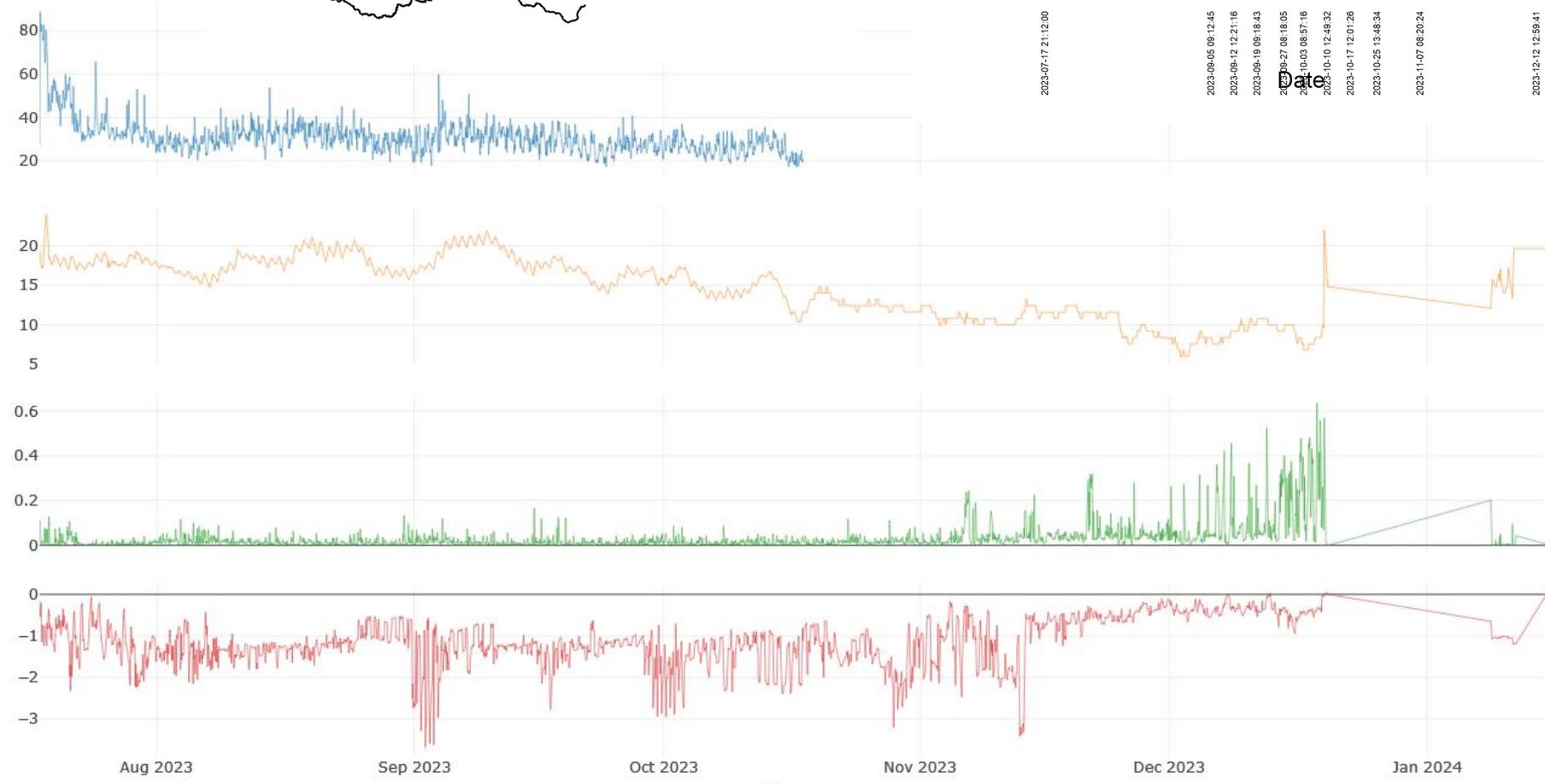
ID 22-111 – 1HM



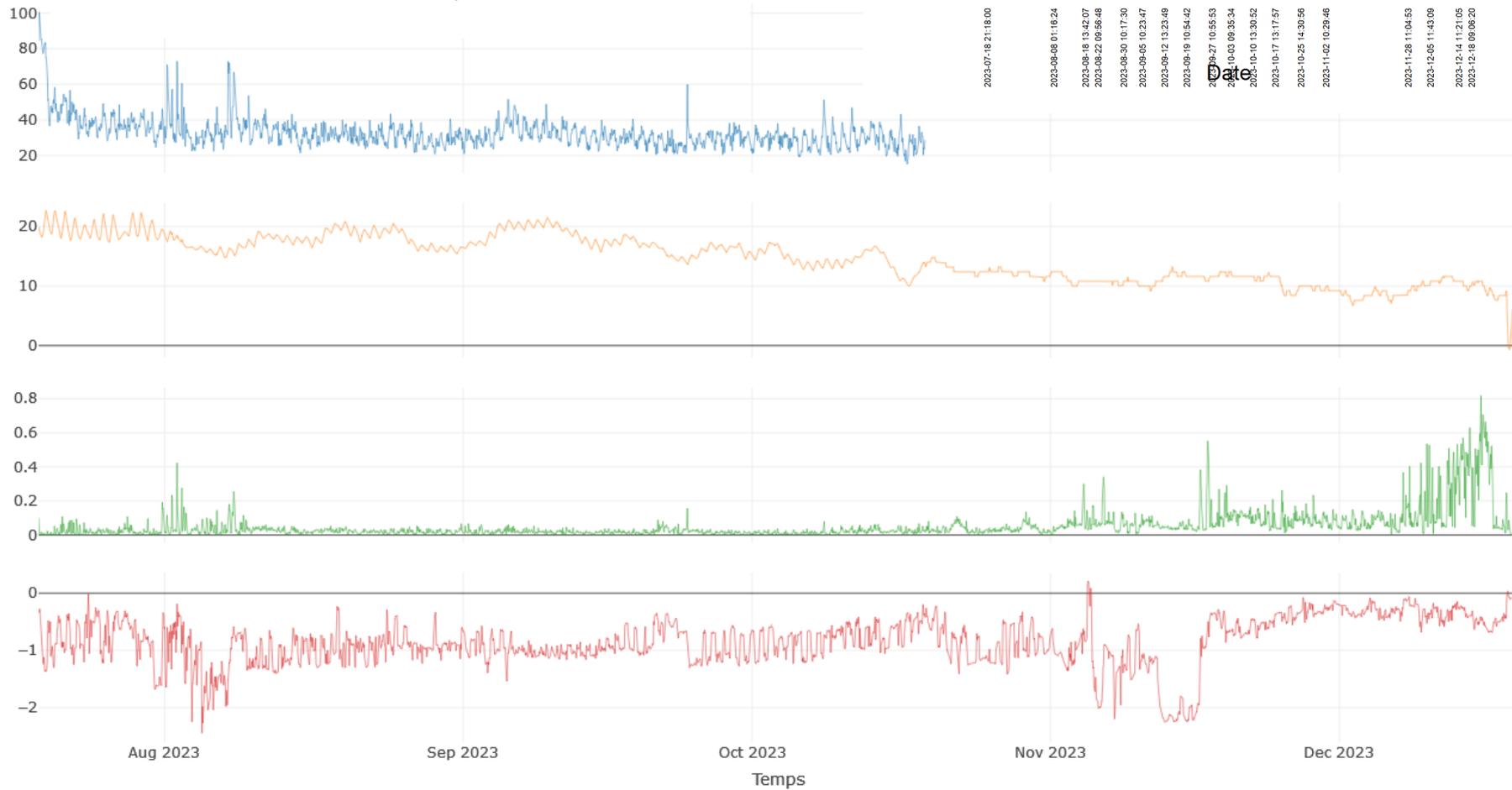
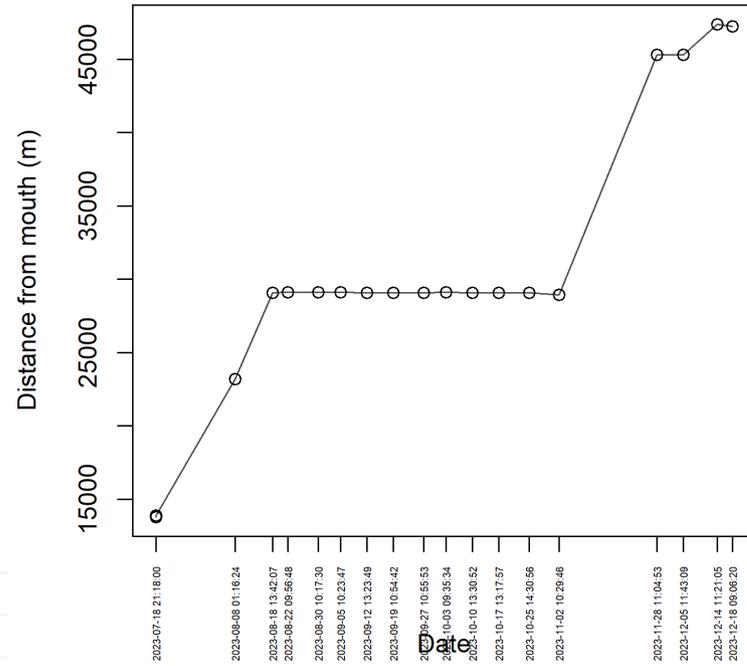
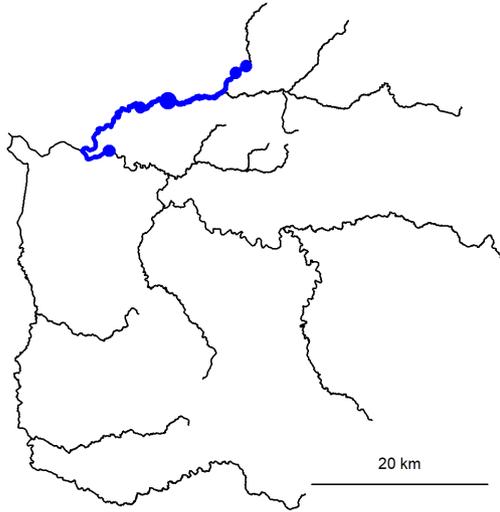
ID23-023



rai_mesure_frequence
emperature
um
rof

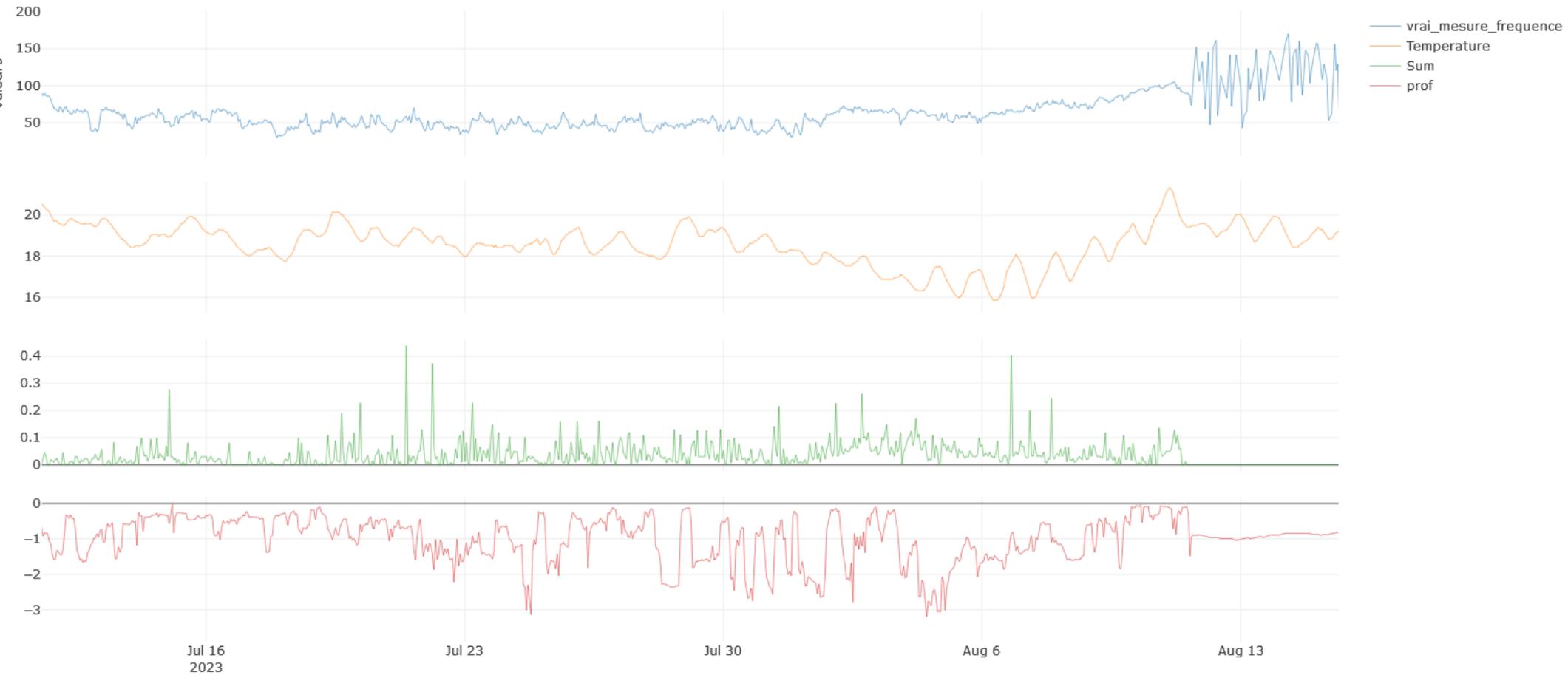
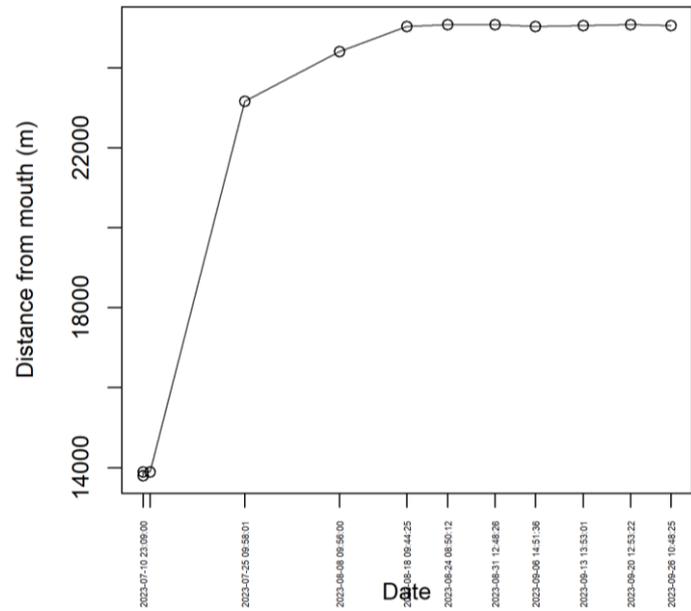
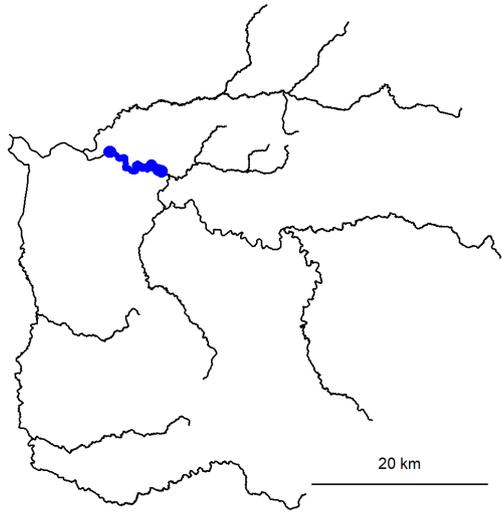


ID23-011



- vrai_mesure_frequence
- Temperature
- Sum
- prof

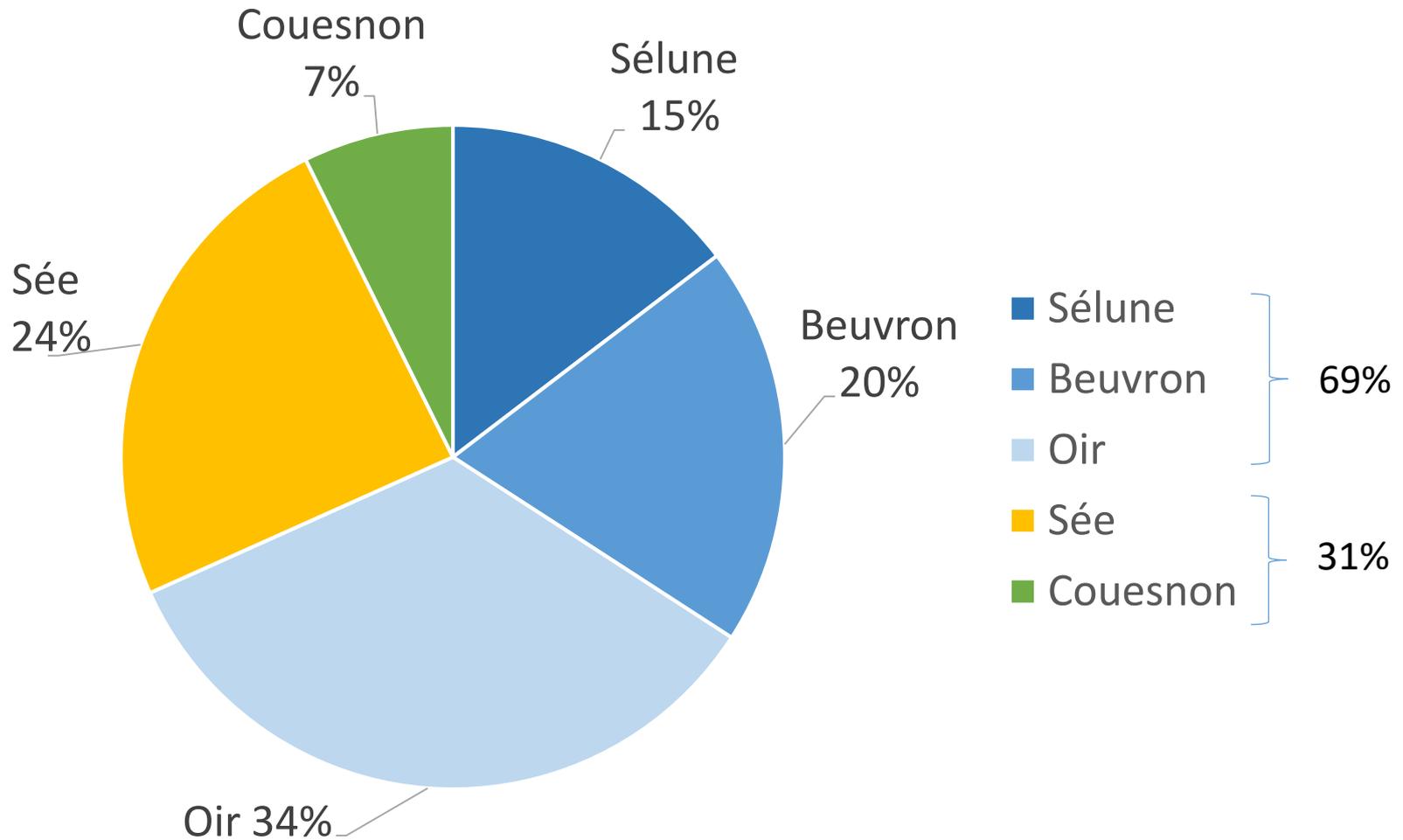
ID23-119



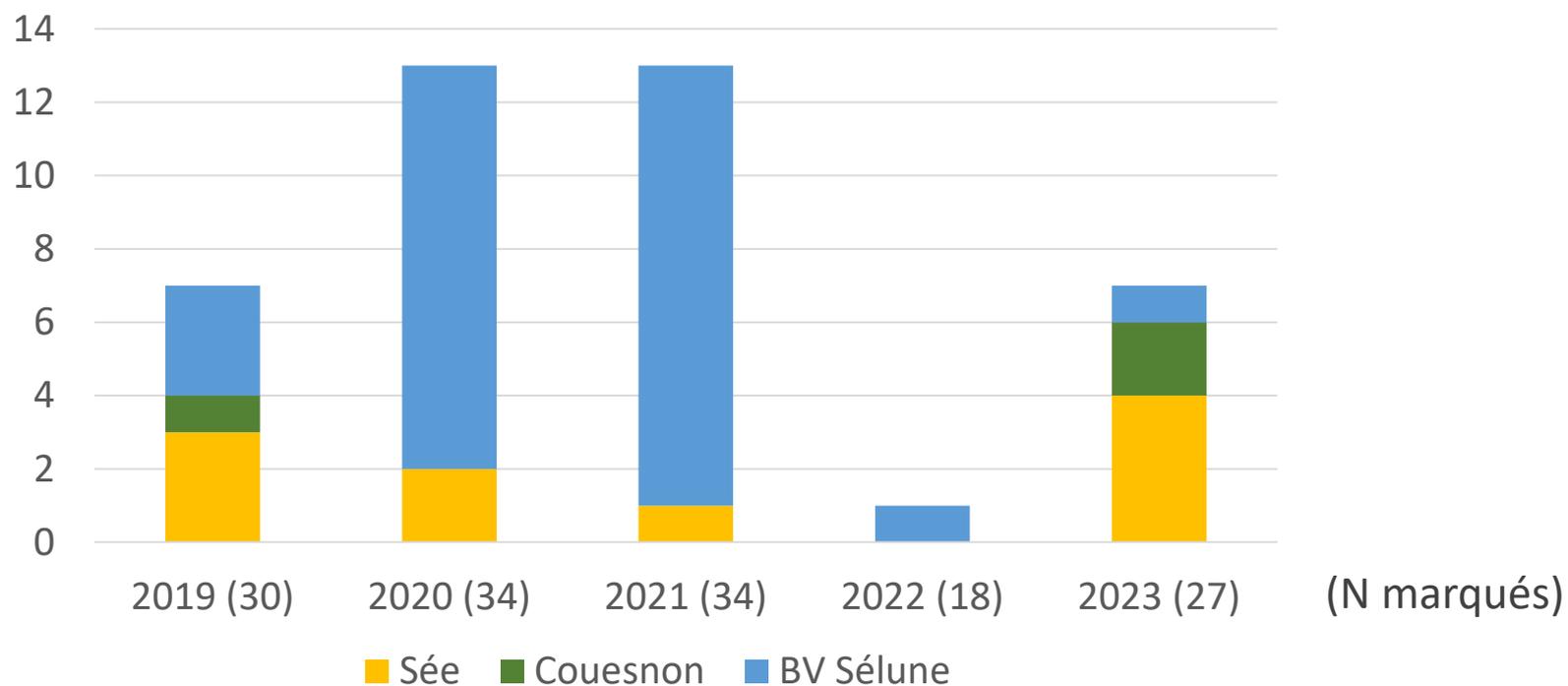
Contexte JST MIAME :

***Errance, dispersion, métapopulation : les
migrateurs amphihalins dépassent les
bornes !***

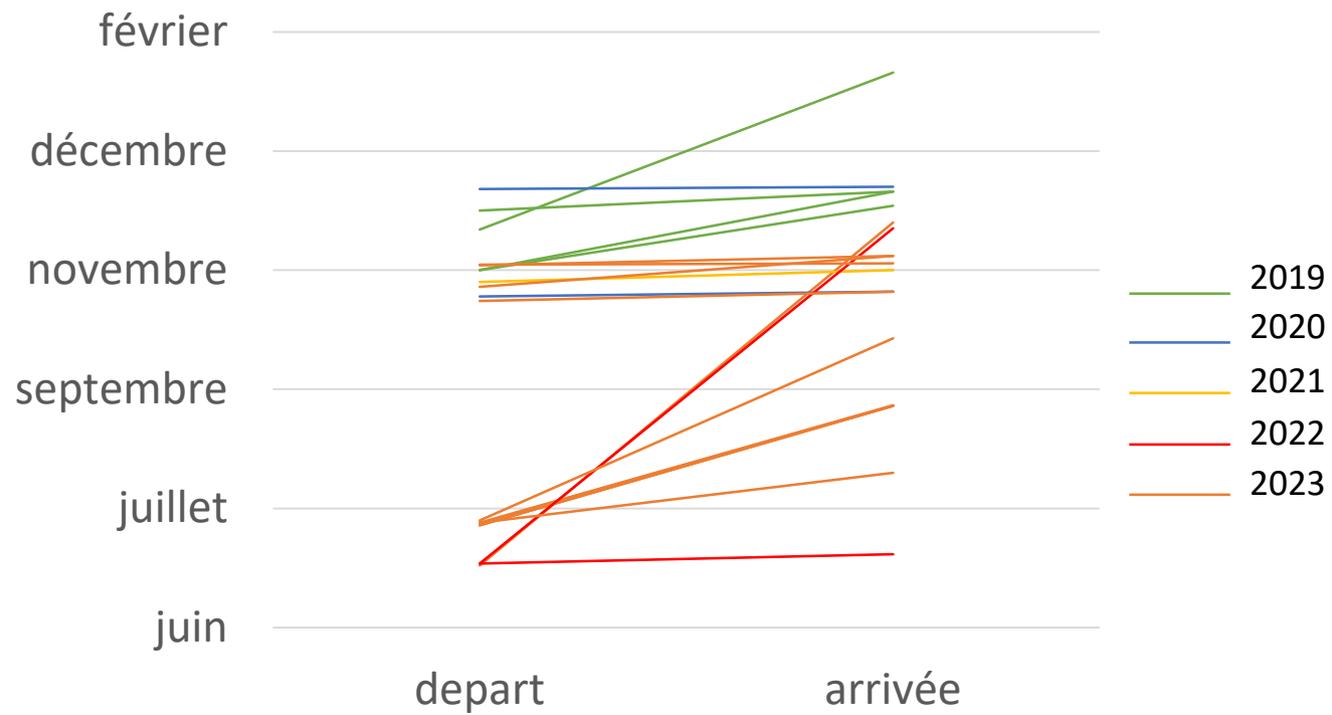
Répartition des individus 'reproducteurs' dans les différents BV (n=41)



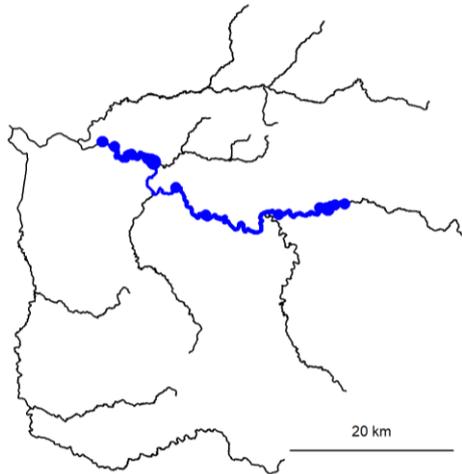
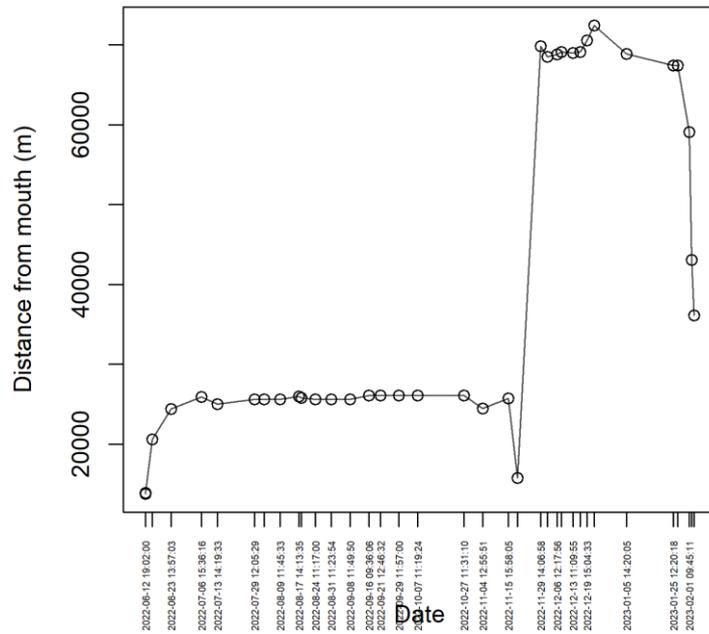
Répartition des individus 'reproducteurs' dans les différents BV par année (n=41)



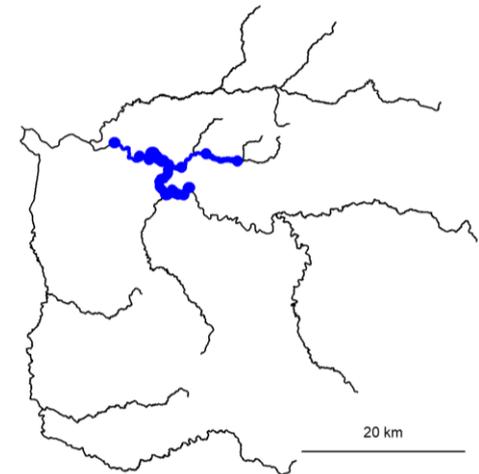
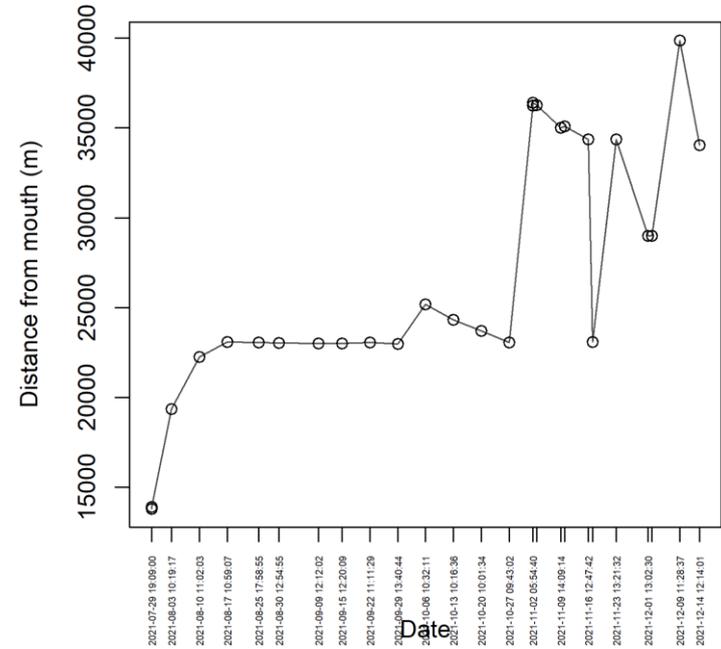
Temporalité des mouvements



ID22-085

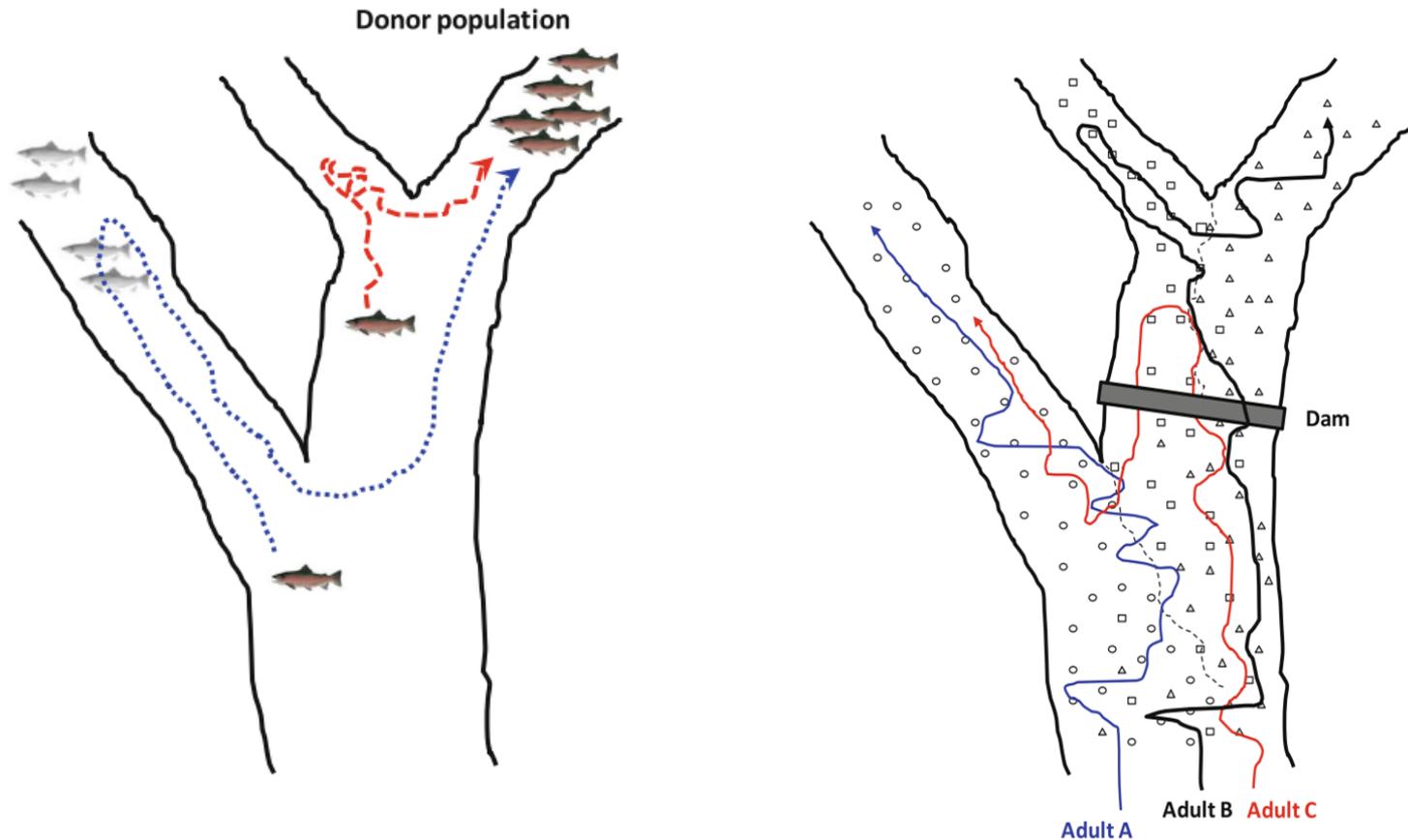


ID21-068



Homing and straying by anadromous salmonids: a review of mechanisms and rates

Matthew L. Keefer · Christopher C. Caudill



- exploration, recherche de partenaires ou de sites de ponte, erreurs...
- olfaction, conditions environnementales (température, débit)

Merci de votre attention!

