

How to use SAMMO-Boat



version sammob 1.3.0 on QGIS 3.16.16 (or more recent?)



For 2 observers et 2 field computers



How to use SAMMO-Boat



version sammob 1.3.0 on QGIS 3.16.16 (or more recent?)

install a recent and stable version of Qgis on your computer and remove your old version:

3.22.13 LTR https://qgis.org/en/site/

3.16.16 https://download.ggis.org/downloads/QGIS-OSGeo4W-3.16.16-1-Setup-x86 64.exe

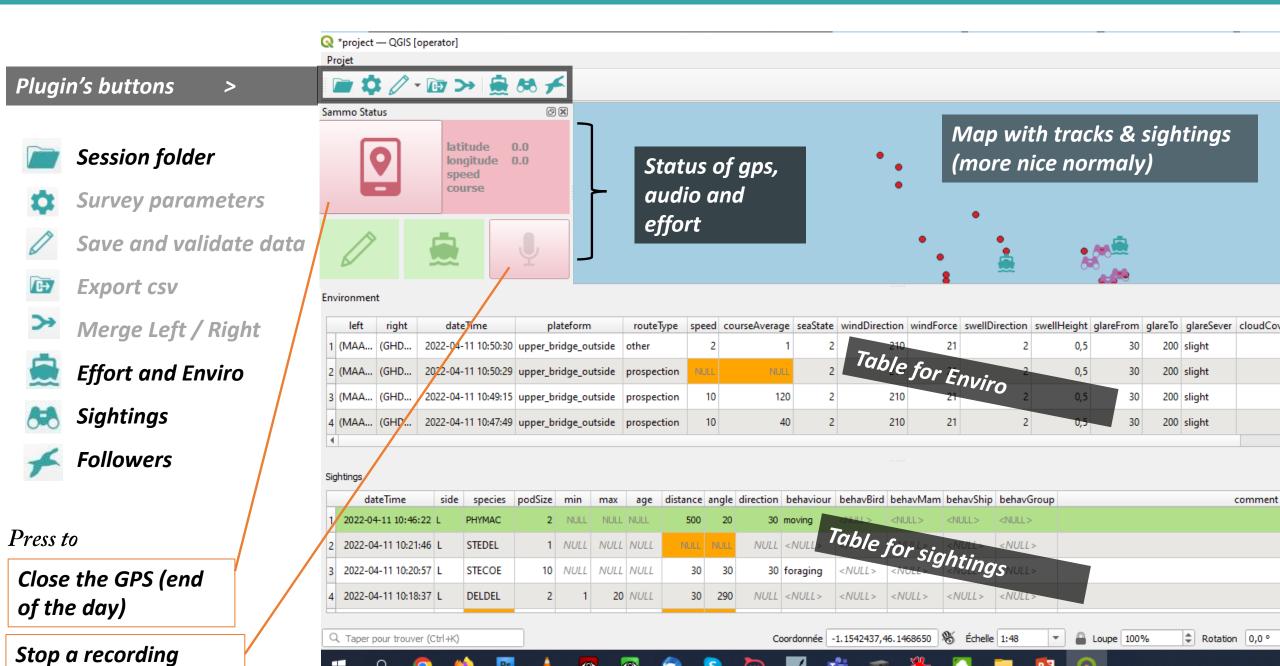
to install Sammo-Boat

<u>https://github.com/hytechimaging/sammo-boat</u> to see the process
Install the plugin dependencies with python console (pip for the sound)

The new and lastest version of Sammo-B is https://github.com/hytechimaging/sammo-boat/releases/tag/v1.3.0



To explain



No paper backup (we keep only that fot effort)

> Audio backup : observers announce their sightings in front of the microphone !!!!



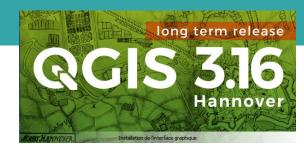
- 1. Start the laptop and think to plug the 220 V not too late
- 2. Start the GPS
- 3. Connect the GPS and the micro to the laptop





Start-up and connections



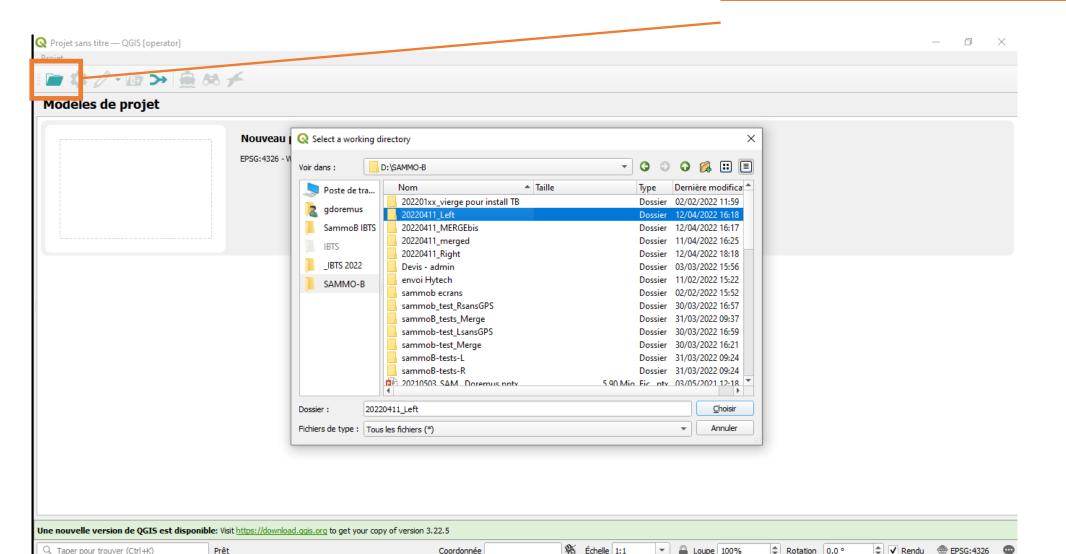


Open QGIS with the shortcut <u>Operator</u>
 On the desktop



Start-up

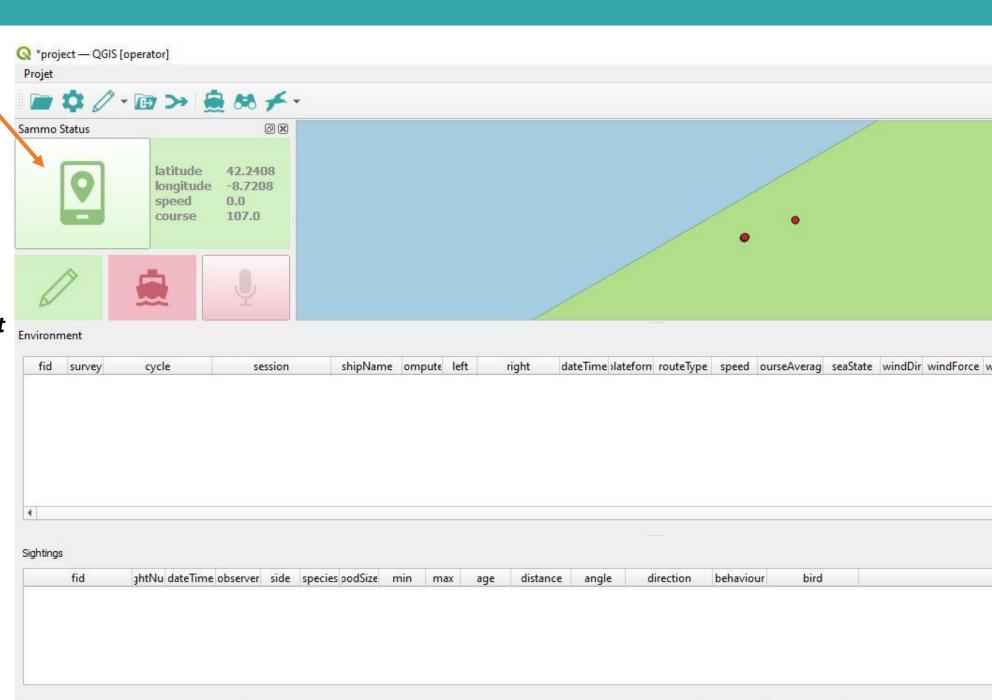
- Click on the sammoBoat folder to open a session
- Choose the appropriate folder (On per day/side)« choose »



Launch a session

 Click on the ship to start the GPS connection

Gps, effort and micro must be in green (micro recording = 1 min)



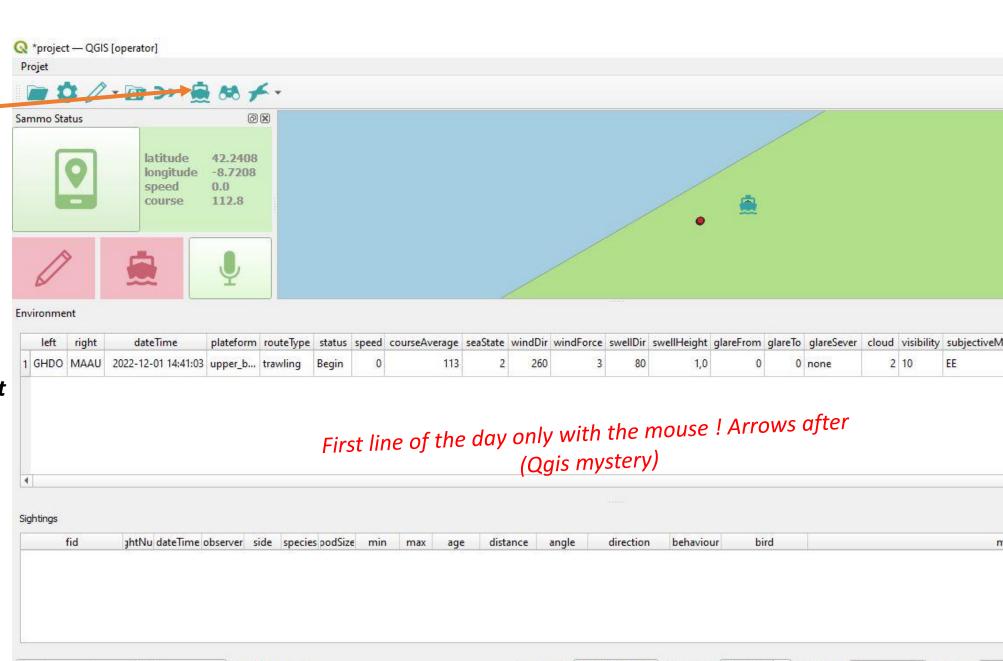
Launch a session

- Click on the ship to start the daily effort (only on one computer for both sides)

And fill in the effort window with enviro parameters and observers sides

*Press Esc to get out the line

Gps, effort and micro must be in green (micro recording = 1 min)



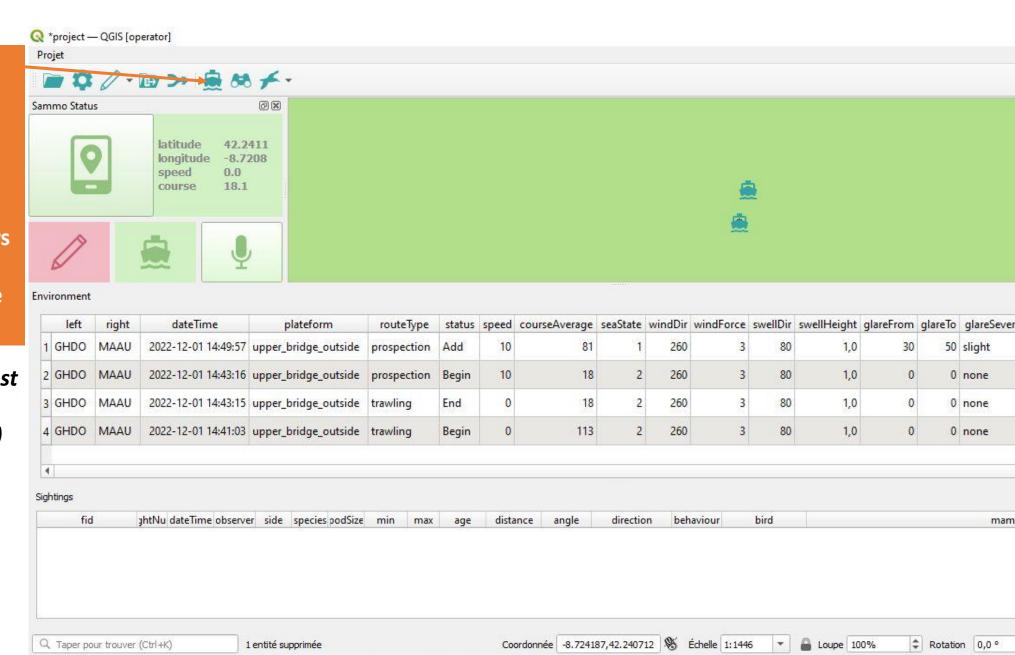
Add new conditions

 Click on the ship to change conditions or activity (prospection, trawling, other)

And fill in the effort window with parameters

*Press Esc to get out the line

Gps, effort and micro must be in green (micro recording = 1 min)

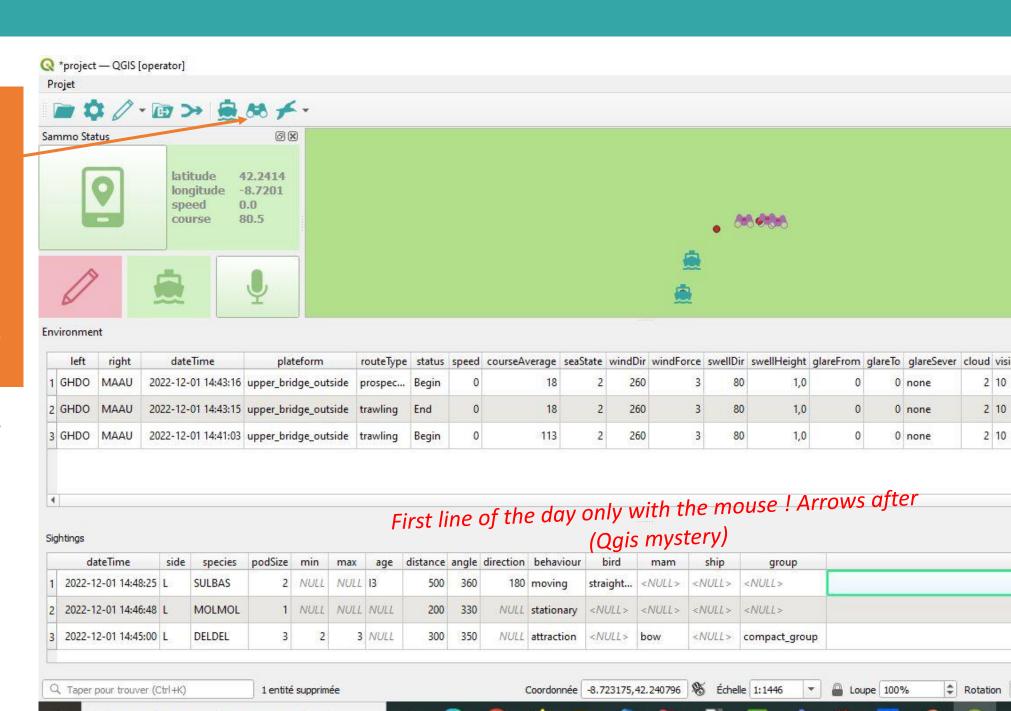


- Click on the binoculars to record a sighting or press « space »

And fill in the window with parameters

*Press Esc to get out the line

Gps, effort and micro still in green (micro recording = 1 min)

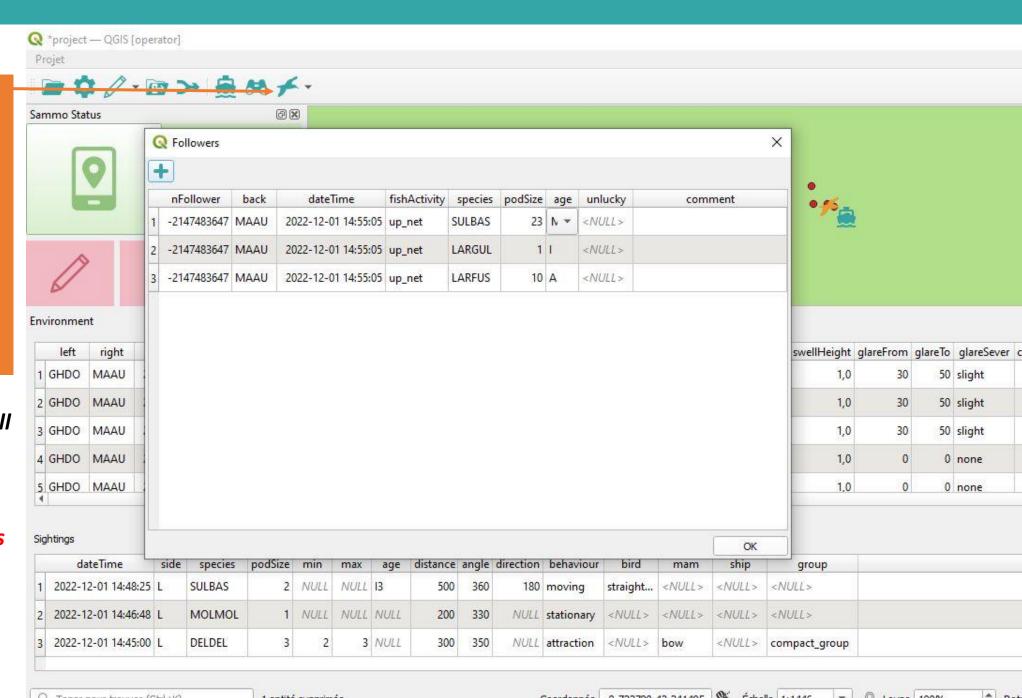


for both sides)

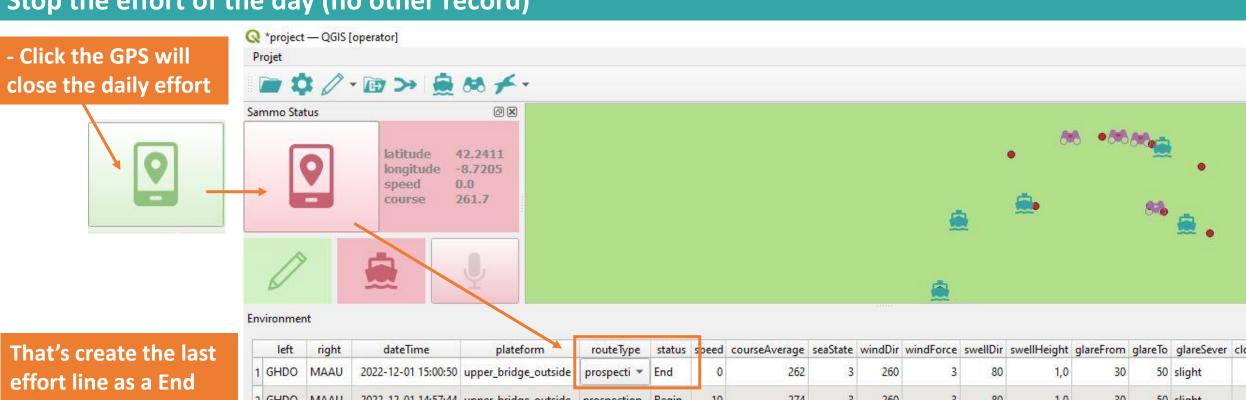
- Click on the bird to record a followers event
(only on one computer

and fill in the window with the + for each species/age and quit with « OK »

Gps, effort and micro still in green (recording of the microphone for the duration of the widget is open)



Stop the effort of the day (no other record)



.

status

	left	right	dateTime	plateform	routeType	status	speed	courseAverage	seaState	windDir	windForce	swellDir	swellHeight	glareFrom	glareTo	glareSever	cloud
1	GHDO	MAAU	2022-12-01 15:00:50	upper_bridge_outside	prospecti 🔻	End	0	262	3	260	3	80	1,0	30	50	slight	2
2	GHDO	MAAU	2022-12-01 14:57:44	upper_bridge_outside	prospection	Begin	10	274	3	260	3	80	1,0	30	50	slight	2
3	GHDO	MAAU	2022-12-01 14:57:43	upper_bridge_outside	trawling	End	2	274	1	260	3	80	1,0	30	50	slight	2
4	GHDO	MAAU	2022-12-01 14:54:12	upper_bridge_outside	trawling	Begin	1	130	1	260	3	80	1,0	30	50	slight	2
5	GHDO	MAAU	2022-12-01 14:54:11	upper bridge outside	prospection	End	1	130	1	260	3	80	1,0	30	50	slight	2

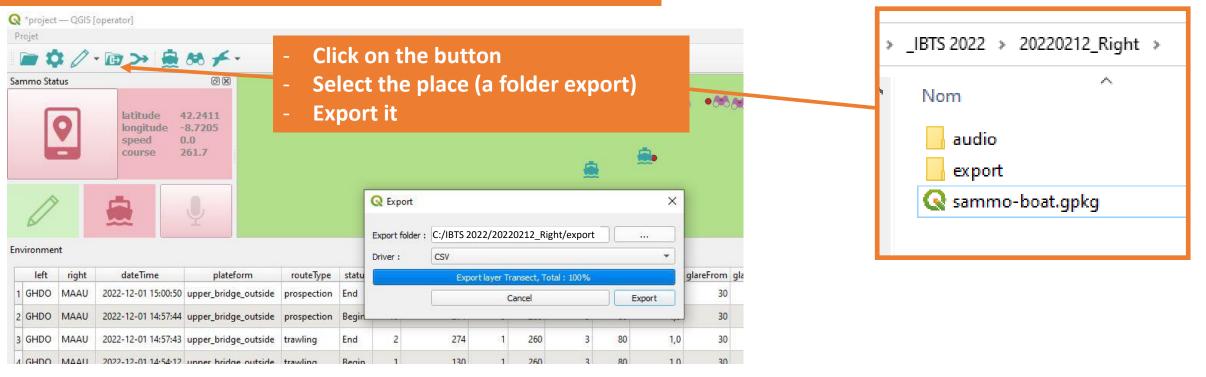
Sightings

dateTime	side	species	podSize	min	max	age	distance	angle	direction	behaviour	bird	mam	ship	group	
1 022-12-01 14:58:41	L	BALPHY	1	NULL	NULL	NULL	800	340	230	moving	<null></null>	slow_s	<null></null>	<null></null>	
2 022-12-01 14:48:25	L	SULBAS	2	NULL	NULL	13	500	360	180	moving	straight_flight	<null></null>	<null></null>	<null></null>	
3 022-12-01 14:46:48	L	MOLMOL	1	NULL	NULL	NULL	200	330	NULL	stationary	<null></null>	<null></null>	<null></null>	<null></null>	

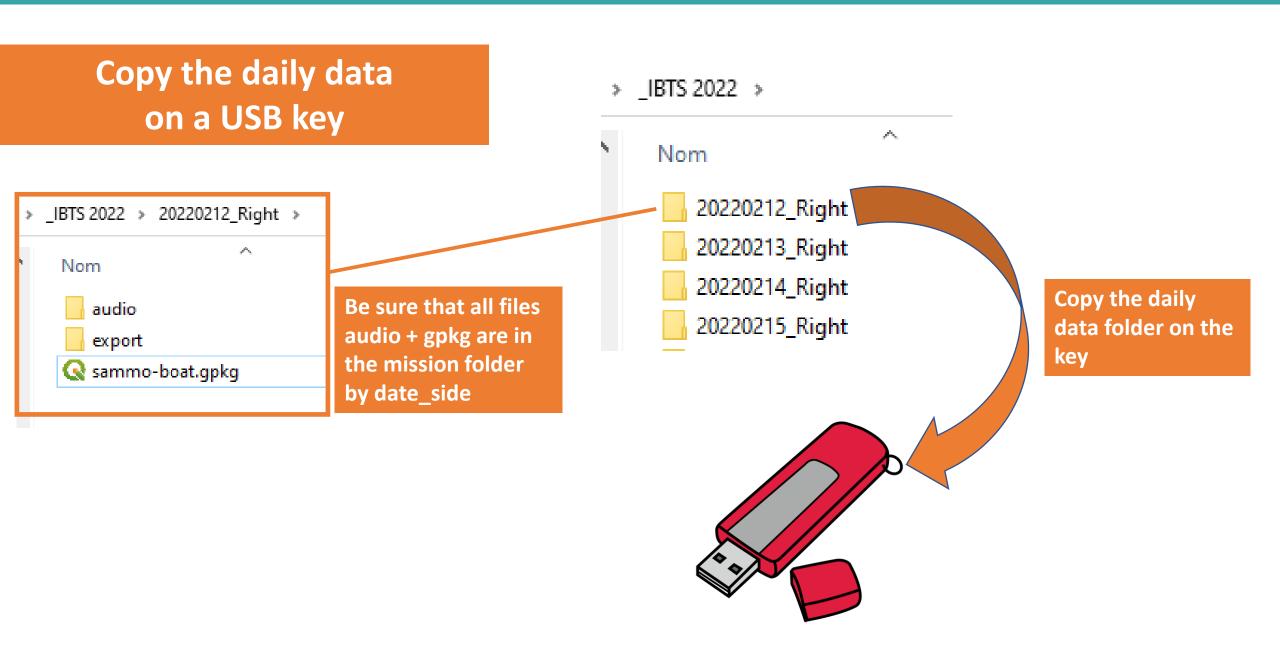
Before turning off the laptop: export + copy



Export the daily data on csv files



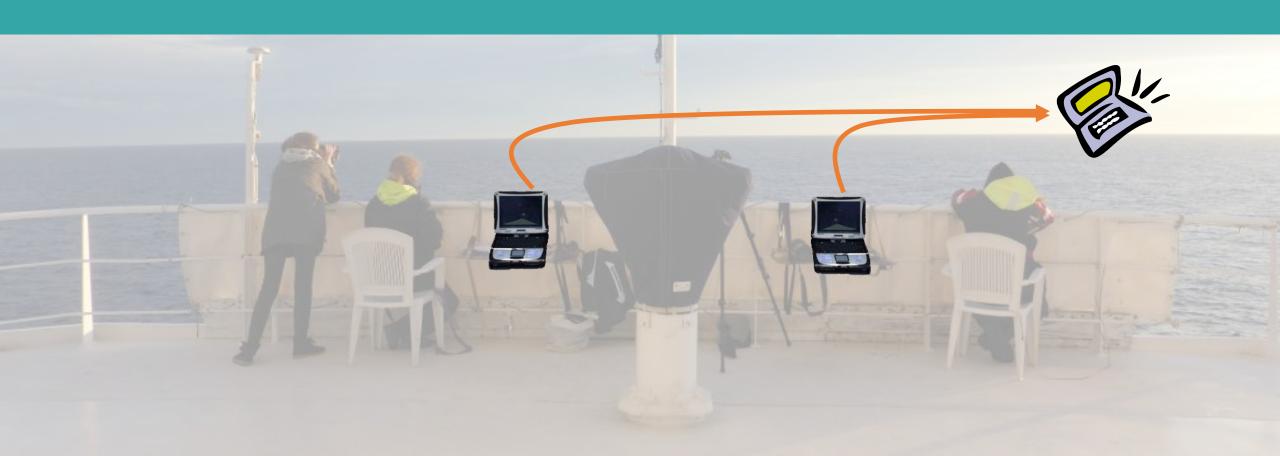






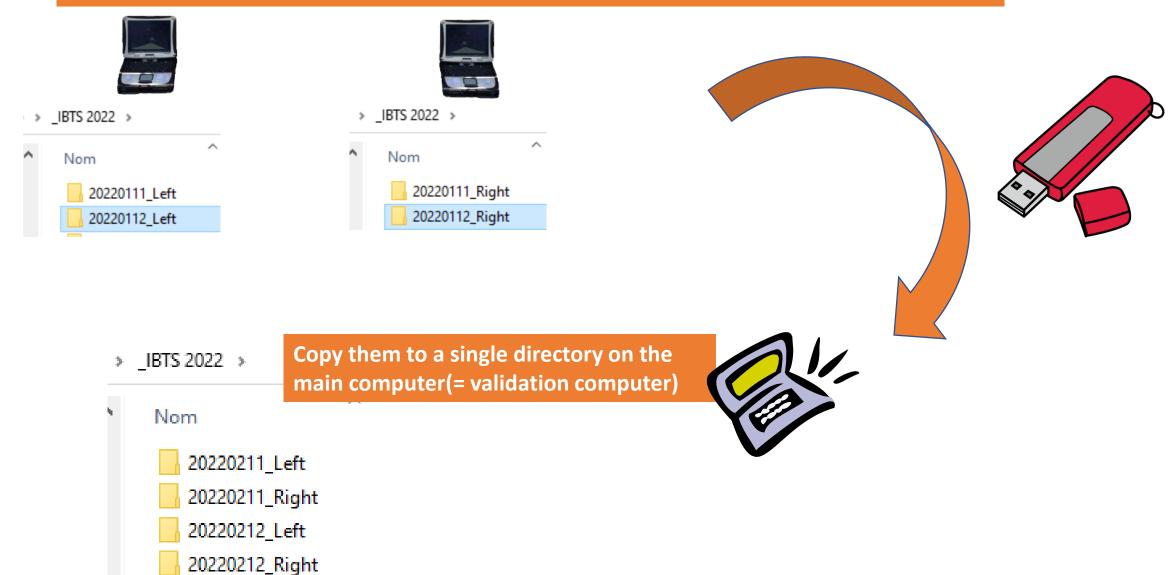
Import & Merge data of the day

On another computer with the same sammo-boat and Qgis version





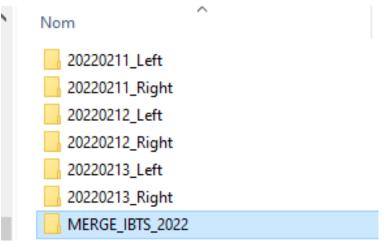
For each laptop L and R copy the folder on a key (do not cut please)



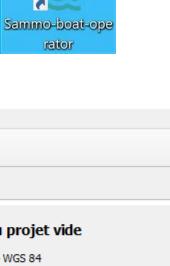


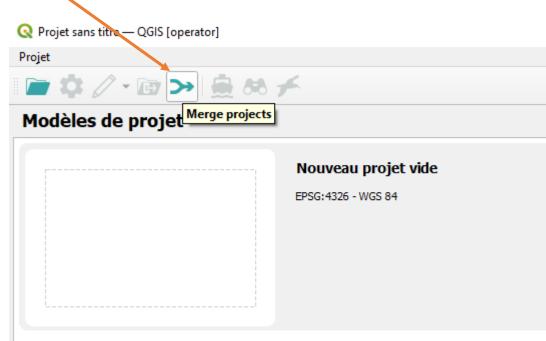






- Open an empty Qgis with the operator shorcut
- **Click on Merge**



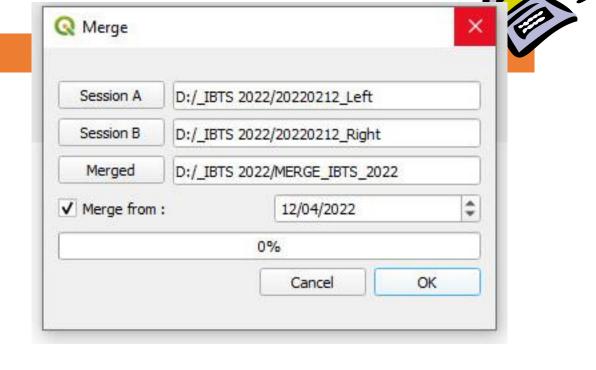




Select the folders per side and « Ok »

Don't panic, wait a moment

Merge (Ne répond pas)





1 final gpkg still called « sammo-boat »

+ all grouped audio files (fichiers ogg)

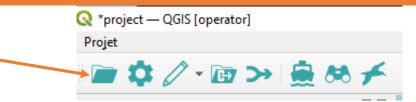


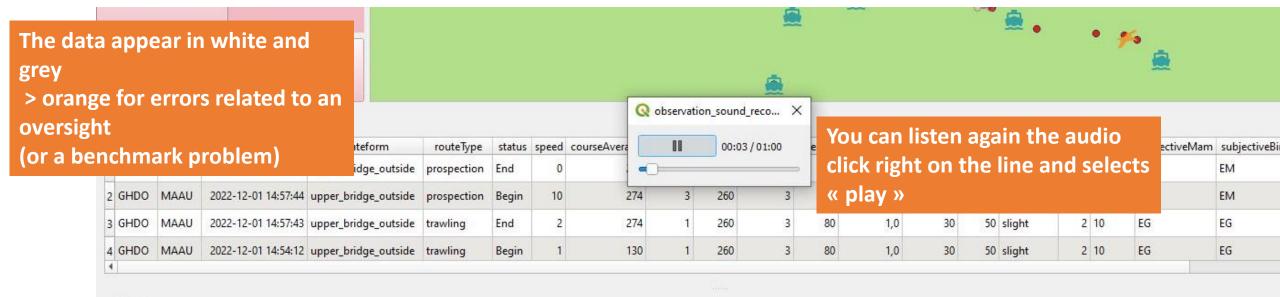
Modifié le	Туре
14/04/2022 17:29	Dossier de fichiers
14/04/2022 17:53	Dossier de fichiers
14/04/2022 17:53	Fichier GPKG
	14/04/2022 17:29 14/04/2022 17:53



1 - Open Qgis with the shortcut Operator

2 – select and open the Merge folder where is the last sammoa-boat.gpkg



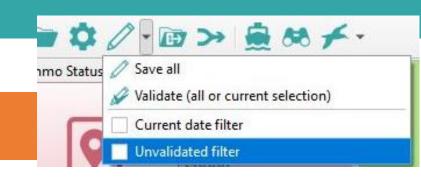


Sightings

	dateTime	side	species	podSize	min	max	age	distance	angle	direction	behaviour	bird	mam	ship	group	comment
1	2022-12-01 14:58:41	L	BALPHY	1	NULL	NULL	NULL	800	340	230	moving	<null></null>	slow_swimming	<null></null>	<null></null>	
2	2022-12-01 14:48:25	L	SULB	2	NULL	NULL	13	500	360	180	moving	straight_flight	<null></null>	<null></null>	<null></null>	
3	2022-12-01 14:46:48	L	MOLMOL	1	NULL	NULL	NULL	NULL	330	NULL	stationary	<null></null>	<null></null>	<null></null>	<null></null>	
4	2022-12-01 14:45:00	L	DELDEL	3	2	3	NULL	300	350	NULL	attraction	<null></null>	bow	<null></null>	compact_group	



Check the blank fields to be filled in according to the species targeted: sorting by column and by date with filters to be thicked



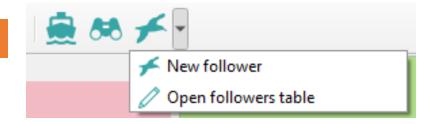
Envir	onment																	
	left	right	dateTime	plateform	routeType	speed	courseAverage	seaState	windDirection	windForce	swellDirection	swellHeight	glareFrom	glareTo	glareSever	cloudCover	visibility	subjectiv
1	MAAU	NIBO	2022-04-11 11:52:21	upper_bridge_outside	prospection	10	20	3	0	NULL	NULL	NULL	0	0	none	0	(NULL)	(NULL)
2	NIBO	MAAU	2022-04-11 11:52:20	upper_bridge_outside	trawling	10	20	3	0	NULL	NULL	NULL	0	0	none	0	(NULL)	(NULL)
3	NIBO	MAAU	2022-04-11 11:46:25	upper_bridge_outside	trawling	4	20	3	0	NULL	NULL	NULL	0	0	none	0	(NULL)	(NULL)
4	NIBO	MAAU	2022-04-11 11:46:24	upper_bridge_outside	prospection	4	20	3	0	NULL	NULL	NULL	0	0	none	0	(NULL)	(NULL)
<																		
	22240000																	
Sight	tings						?		, ?									

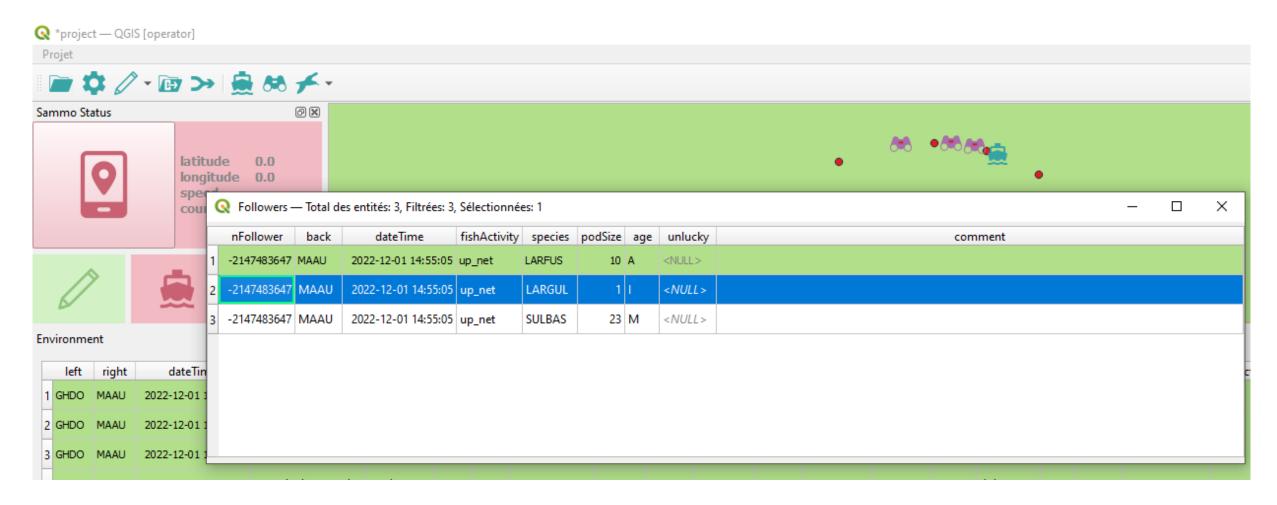
distance angle direction behaviour behavBird behavMam behavShip behavGroup dateTime podSize min max age comment 1 NULL NULL NULL <NULL> 2022-04-11 11:53:47 R LARFIS 20 <NULL> <NULL> 30 NULL NULL I <NULL> <NULL> <NULL> 2022-04-11 11:53:26 R LARGUL 200 30 NULL < NULL > <NULL> 1 NULL NULL NULL 2022-04-11 11:52:58 R PLASTR 20 NULL < NULL > <NULL> <NULL> <NULL> <NULL> 1 NULL NULL NULL 340 <NULL> 2022-04-11 11:45:50 R GRAGRI 200 NULL attraction 20 NULL NULL NULL 2022-04-11 11:27:28 R DEL DEL 500 10 < NULL > < NULL> <NULL> 2 movina

- Validate by batches of lines by selecting them and clicking on the pencil At the end, No fields should appear in orange

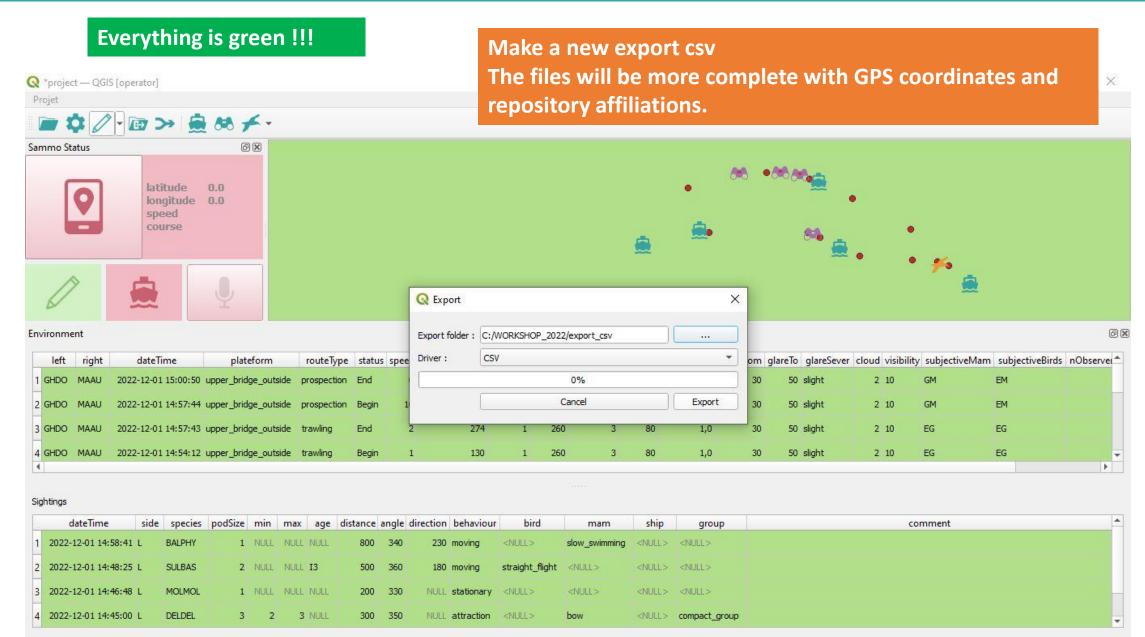


The same with Followers table









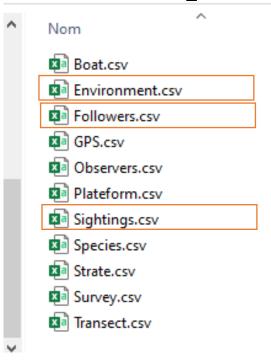
Qgis can be closed

Final Dataset

Our data are on the Merge/export folder

and in the sammo-boat gpkg

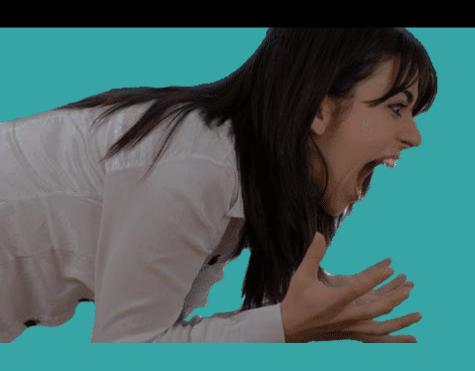
IBTS 2022 > MERGE_IBTS > export



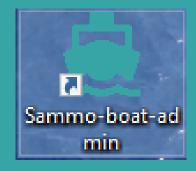


Reports & regulars analyzes

В	С	D	Ε	F	G	н	1	J	K	L	M N	0	P	Q	B	s	Т	U	٧	W	X	Y	Z	AA	AB	AC
sightNum	dateTime	observe	side	species	podSize	podSizeMi	podSizeM	k age	distance	angle	direction behaviour	behavBird	behavMar	π behavShip	behavGrou	comment	soundFile	soundStart	soundEnd	species_c	species_la	species_g	r species_fa	species_ta	lat	lon
PELGAS-NULL:	01/12/2022 14:45	GHDO	L	DELDEL	3	2	3	3	300	350	attraction		bow		compact_g	jroup	audio/2022	0	49.6	Dauphin co	Delphinus	Petit delph	Delphinina	Mammifer	-8.720375	42.24137
PELGAS-NULL-	01/12/2022 14:46	GHDO	L	MOLMOL	1				200	330	stationary						audio/2022	0	51.3	Poisson lu	Mola mola	Grand pois	Poisson	Autre faun-	-8.72021	42.24137
PELGAS-NULL-	01/12/2022 14:48	GHDO	L	SULBAS	2			13	500	360	180 moving	straight_fl	ight				audio/2022	0	60.3	Fou de Ba	: Morus bas	Fou	Sulidae	Oiseau ma	-8.72013166	42.24136
PELGAS-NULL:	01/12/2022 14:58	GHDO	L	BALPHY	1				800	340	230 moving		slow_swin	nming			audio/2022	0	59.0	Rorqual co	Balaenopt	Grand bale	Balaenopt	Mammifer	-8.7200783	42.24113

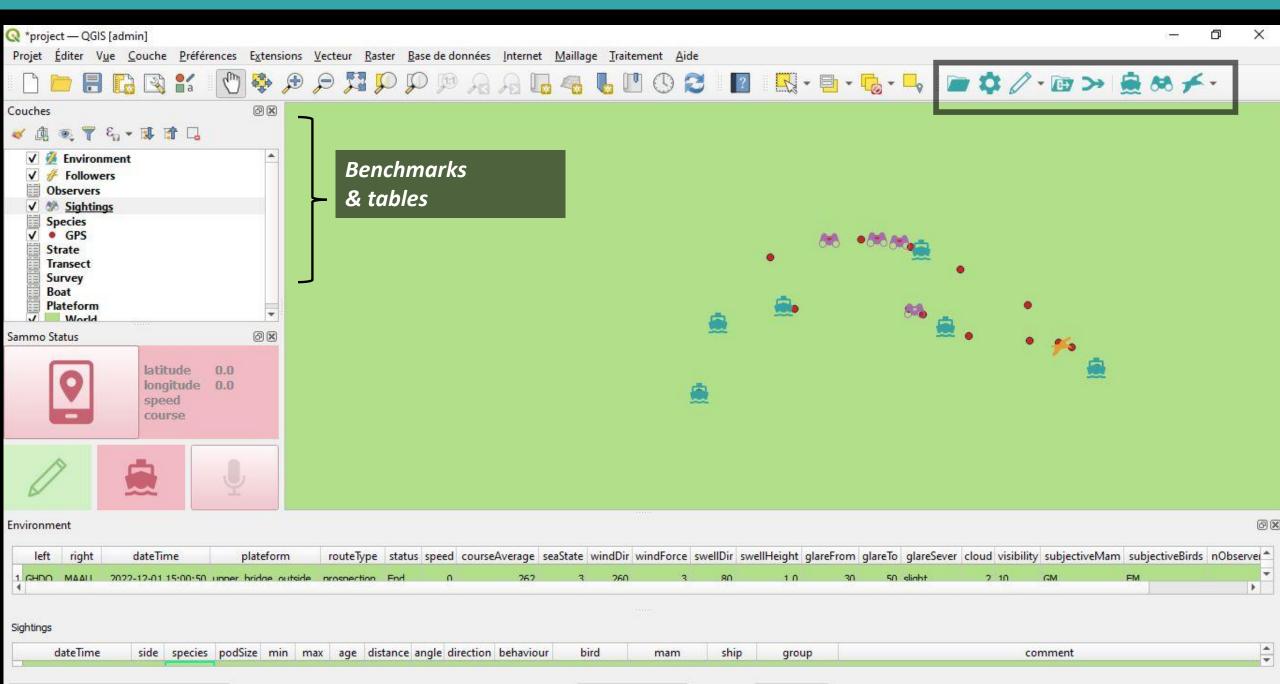


Administrator mode

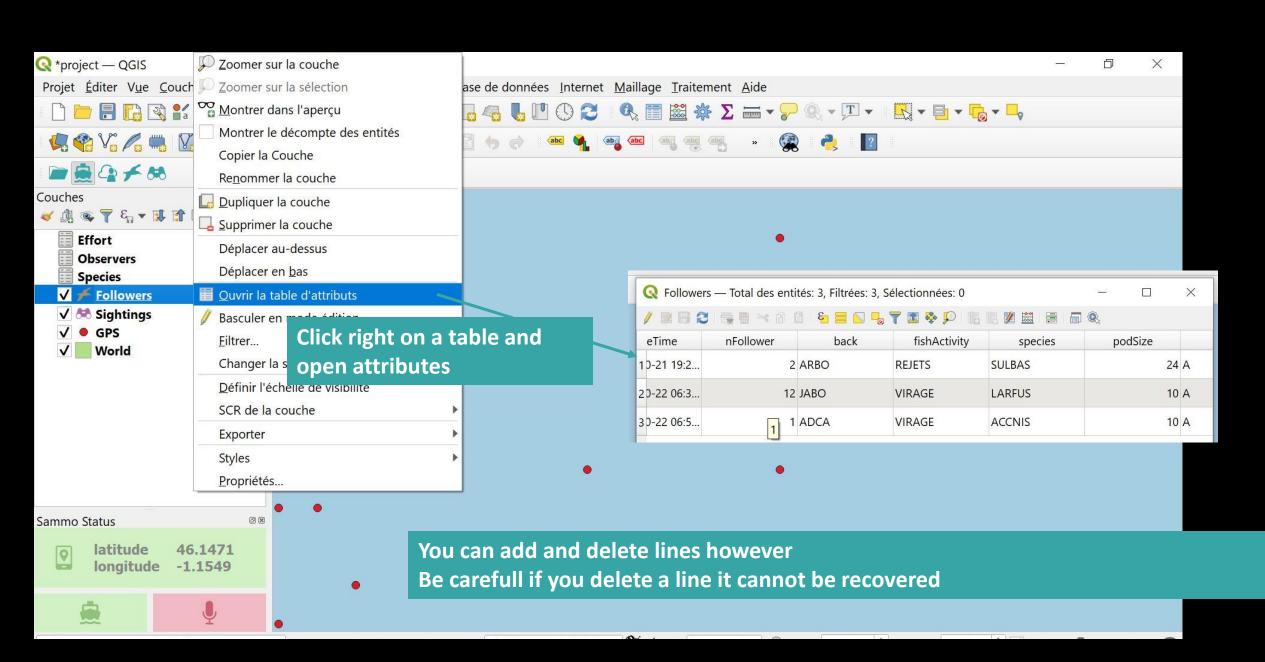


- Data check
- To prepare the surveys
- If there is a bug (with tables, benchmark, GPS connection)

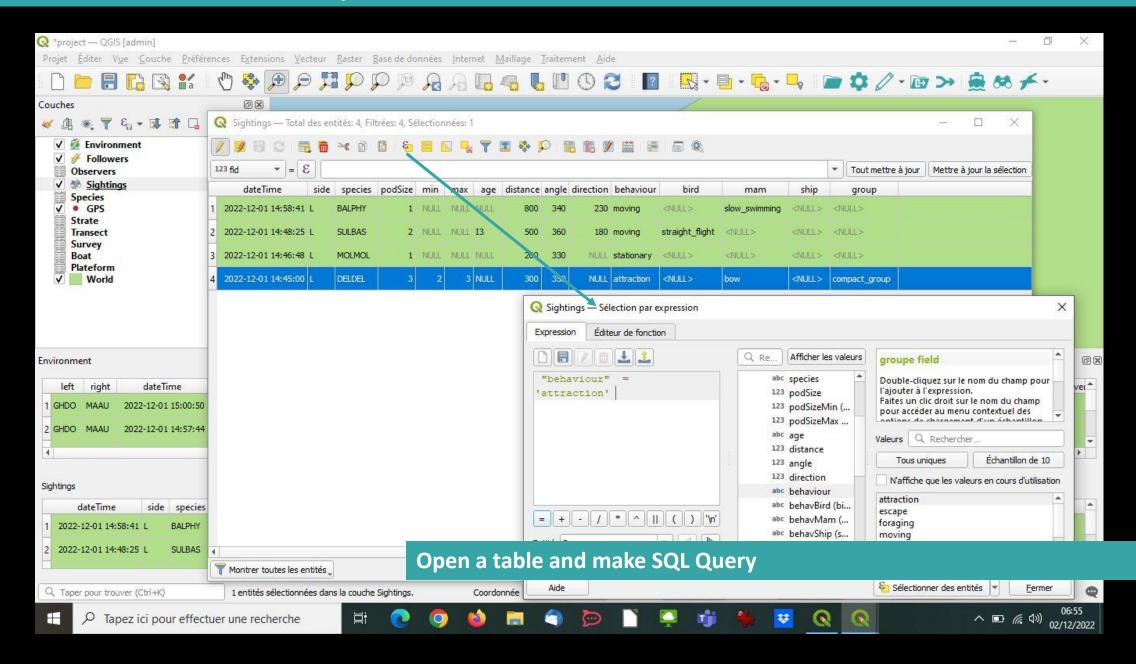
Admin mode



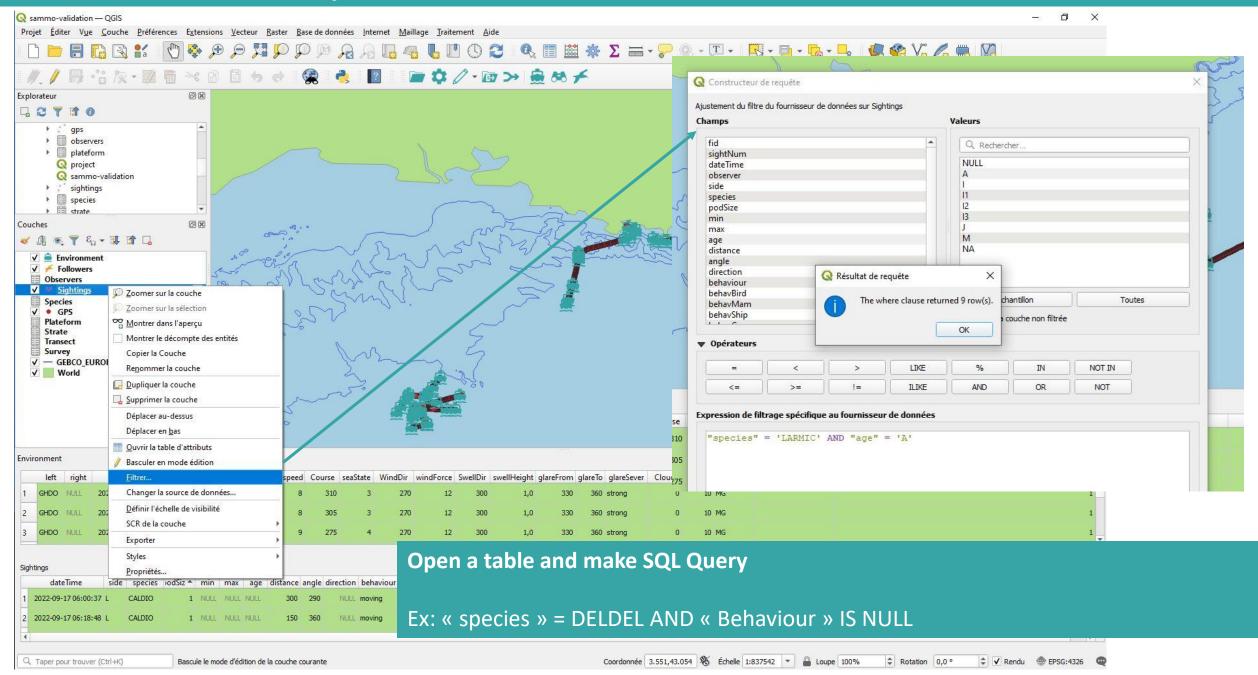
Admin mode: Another way to check data



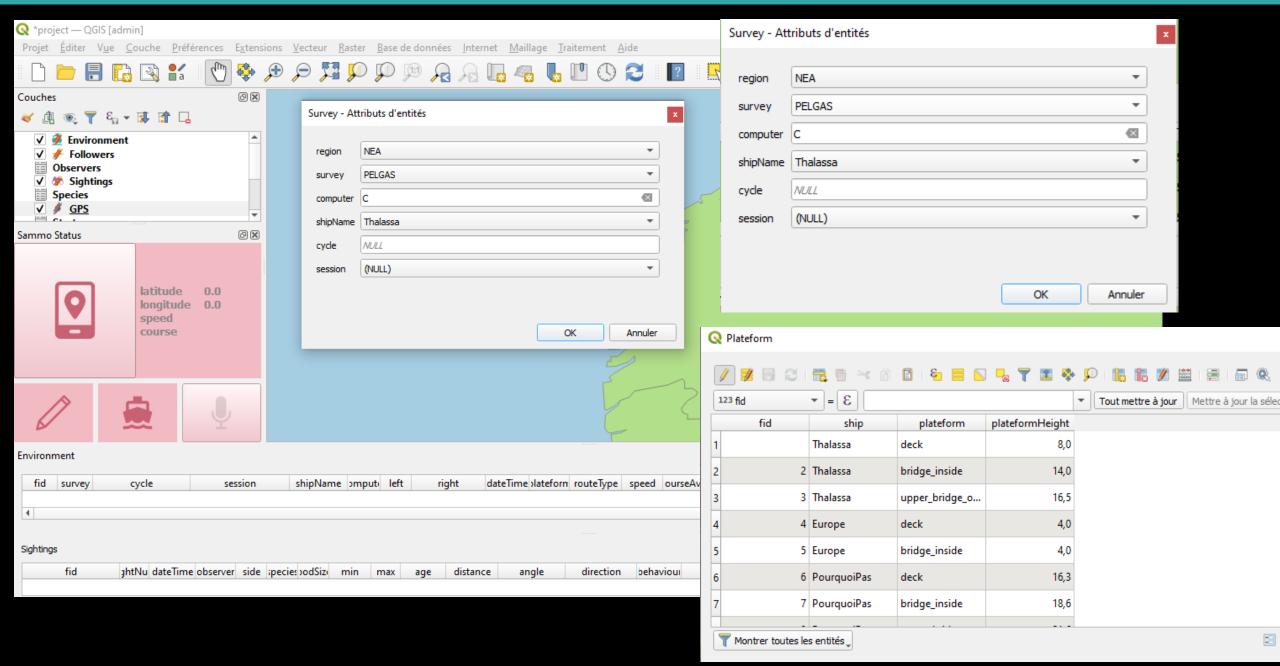
Admin mode: Another way to check data



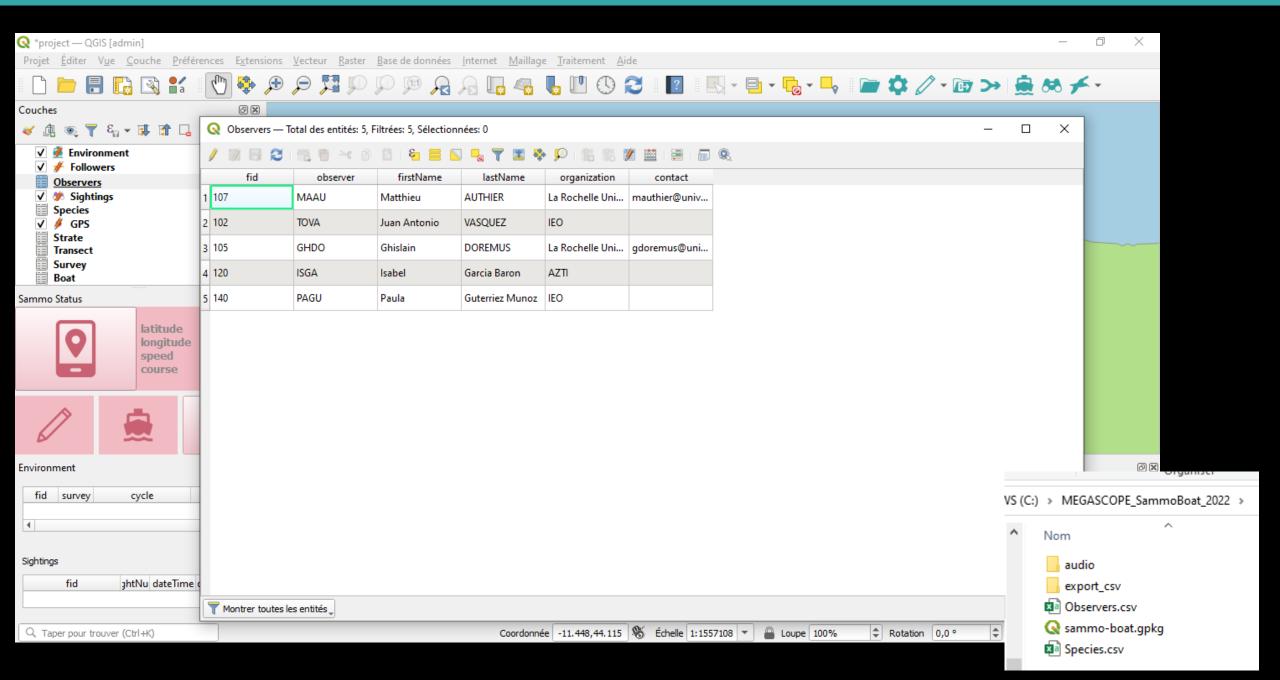
Admin mode: Another way to check data



Admin mode: prepare a survey



Admin mode: prepare a survey



Admin mode: prepare a survey

