

Visualiser ses données de metabarcoding avec

MyGOD

Manipulate your **G**enomic **O**bservatory **D**ata



MyGOD - Déroulé

- Objectifs et organisation du projet
- Construction et paramétrage de tableaux de bord
- Persistance, partage et publication de tableaux de bord
- Mise en forme et importation de données
- Déploiement
- Bilan & perspectives



MyGOD

Le projet



Le Projet MyGOD

- Objectif : fournir un outil de visualisation de données pour les observatoires génomiques (suivis long-terme stationnaires)
- Types de données ciblées : données de metabarcoding complétées par des données physico-chimiques
- Spécifications techniques : outil Web ergonomique proposant des représentations graphiques dynamiquement paramétrables et « composables »
- Ressources : financement Région Bzh via BGO, 2 ANS CDD IE (+ compléments de 5 mois)
- Partenaires principaux : ABiMS + MIO + SeBiMER
- Calendrier : de février 2021 à juin 2023



MyGOD

Construction et paramétrage de tableaux de bord



Visualisation – Accès au dashboard

The screenshot shows the MyGOD dashboard. On the left is a teal sidebar with the MyGOD logo at the top. Below the logo, there are two sections: 'MAIN MENU' and 'OPTIONS'. The 'MAIN MENU' includes links for Home, Search, Gallery, and Datasets (with a dropdown arrow). The 'OPTIONS' section includes links for Help (with a dropdown arrow), Contact, Credits, and Latest Changes. At the top right of the main content area, there are links for 'Login' and 'Register' next to a user icon. The main content area features a large banner with the text 'Manipulate your Genomic Observatory Data' over a microscopic image. Below the banner is a text block describing MyGOD as a web-based visual exploration tool, detailing its features and funding. To the right of this text is a vertical teal search bar with the text 'Search by taxon'. At the bottom of the main content area, the text 'What's New ?' is visible.

MyGOD Login | Register

MAIN MENU

- Home
- Search
- Gallery
- Datasets

OPTIONS

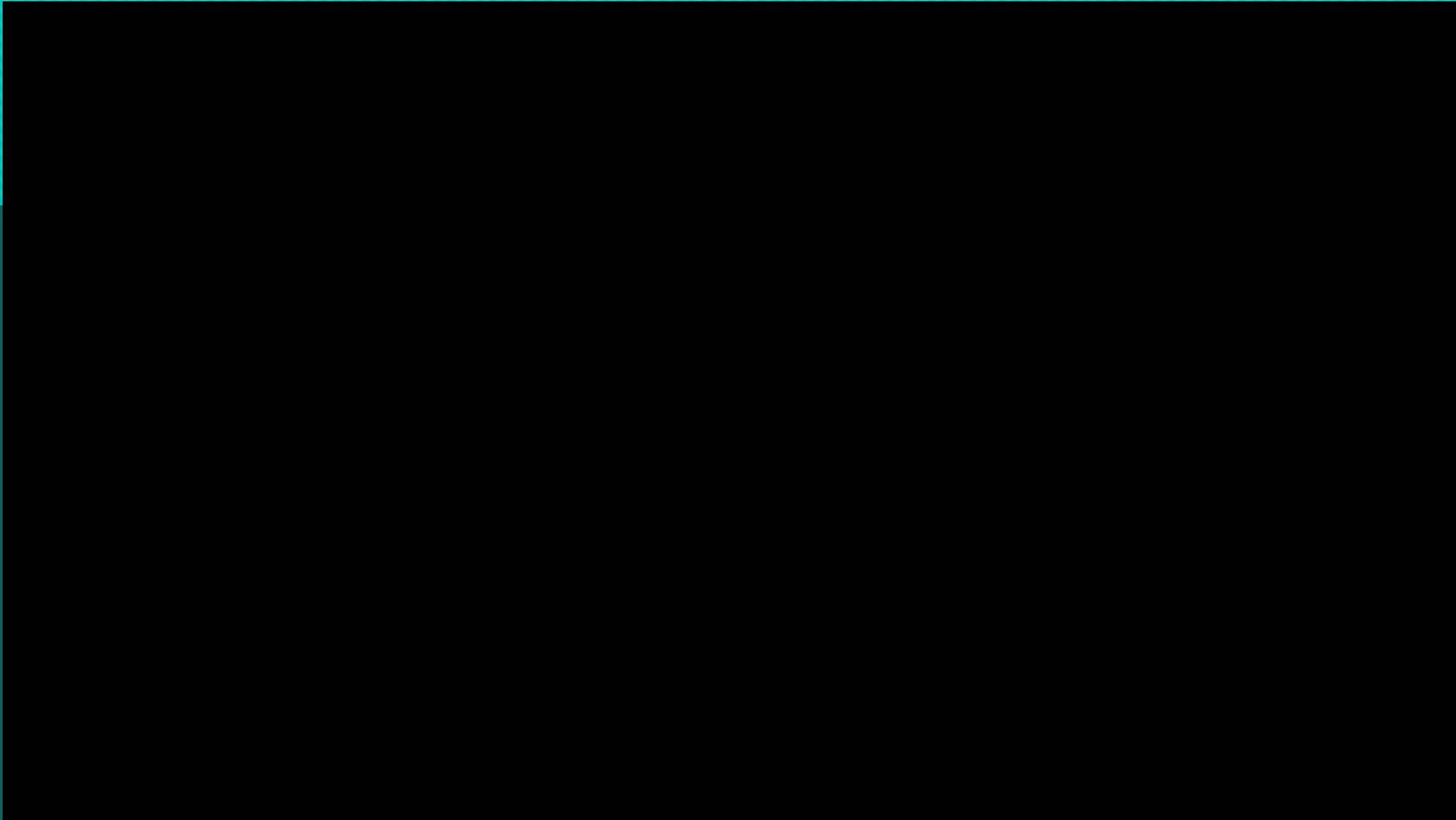
- Help
- Contact
- Credits
- Latest Changes

Manipulate your Genomic Observatory Data

MyGOD is a Web-based visual exploration tool. It has been designed to enable scientists to easily build dynamic and composite graphical representations of biodiversity data supplemented with environmental data (ex.: physico-chemical measurements). Anonymous visitors have access to all data and all types of graphical representations offered by MyGOD. Authenticated users benefit for additional features: they can save all the settings of the dashboards they have composed for later reuse, they can promote their dashboards as gallery entries which makes them publicly accessible; and, if they have the appropriate permissions, they can directly import new datasets into MyGOD. Development of MyGOD has been funded by the BioGenOuest network, and the Institut Français de Bioinformatique, and been carried out by personnel of the ABiMS platform, with contributions from the Service de Bioinformatique de l'IFREMER and the Mediterranean Institute of Oceanography. MyGOD can be installed from a Docker image, following the steps documented at <https://gitlab.com/mygod-biodiv/mygod-docker>. More information about how to format data suitable for import in MyGOD can be found at <https://gitlab.com/mygod-biodiv/mygod-data-formats>.

Search by taxon

What's New ?



Visualisation – Génération du dashboard

The dashboard interface includes a left sidebar with navigation options: Contact, Credits, and Latest Changes. The main content area features a control bar with 'Update Dashboard' and 'Remove Panel' buttons, and an 'Add Taxon Search Panel' button. Below this is a search section with a dropdown menu showing 'Astas 16S - 2009-2016 / 10|Arch', 'Graph Types' set to 'Dataset Information', and buttons for 'Add Graph' and 'Reset Layout'. The dashboard displays four panels:

- Taxon Search Results:** A table with sections for Search Criteria, Matches, Dataset Info, Taxonomy Info, Sampling Info, and Clustering. The Search Criteria section shows: Dataset: Astas 16S - 2009-2016, From: 2009-01-07, To: 2011-12-19, Taxon: 10|Archaea, Rank: Any, Taxa: 24, Sequences: 56. The Clustering section shows a table with columns for Name and Stations.
- Taxonomic Sunburst on 0.2 µm at depth SRF:** A donut chart showing the distribution of taxa.
- Relative Abundance of Domain@10|Archaea by Season (in %) on fraction 0.2 µm:** A scatter plot with error bars showing relative abundance across Winter, Spring, Autumn, and Summer.
- Evolution of relative abundances of Domain@10|Archaea in % between 2009-01-07 and 2011-12-19 on fraction 0.2 µm:** A line graph showing the percentage of relative abundance over time from 2009 to 2011.



Taxon Search Results

Search Criteria
Dataset: Astan 16S - 2009-2016
From: : 2009-01-07 To: : 2011-12-19
Taxon: 10|Archaea Rank: Any

Matches
Taxa: 24 Sequences: 56
[Export Fasta](#)

Dataset Info
Campaign: Astan 2009-2016 Marker: V4

Taxonomy Info
Name: silva Version: 22252

Sampling Info
Events: 70 Sites: 1 Depth Classes: 1

Clustering

Name	Stations
No cluster	["RA"]

Taxon Search Results

Search Criteria
Dataset: Astan 16S - 2009-2016
From: : 2009-01-07 To: : 2011-12-19
Taxon: 10|Archaea Rank: Any

Matches
Taxa: 24 Sequences: 56
[Export Fasta](#)

Dataset Info
Campaign: Astan 2009-2016 Marker: V4

Taxonomy Info
Name: silva Version: 22252

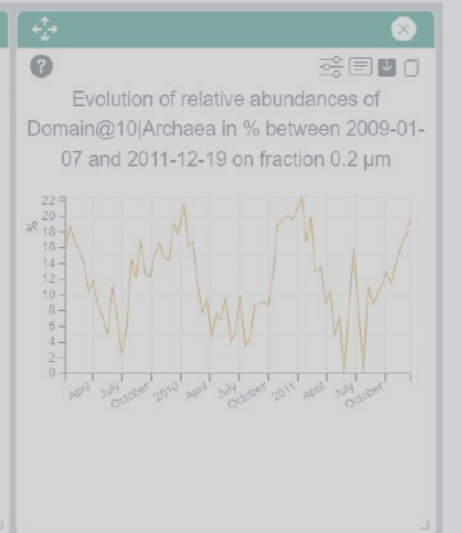
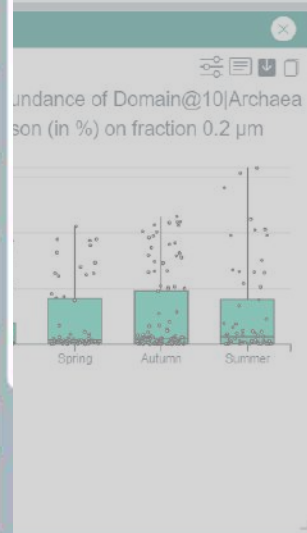
Sampling Info
Events: 70 Sites: 1 Depth Classes: 1

Clustering

Name	Stations
No cluster	["RA"]

Remove Panel

[Add Graph](#) [Reset Layout](#)



Contact

Credits

Latest Changes

Update Dashboard

Remove P...

Add Taxon Search P...

Search Criteria

Astan 16S

Taxon Search F...

Search Criteria

Dataset: Astan 16S - 2009-2016

From: 2009-01-07 To: 2016-07-07

Taxon: 10|Archaea

Matches

Taxa: 24

Dataset Info

Campaign: Astan 2009-2016

Taxonomy Info

Name: silva

Sampling Info

Events: 70 Sites: 1

Clustering

Name	Stations
No cluster	["RA"]

Relative Abundance of Domain@10|Archaea by Season (in %) on fraction 0.2 μm

Custom Legend

Widget Settings

Clone Widget

Data Download

Season	Approximate Median (%)
Winter	1.8
Spring	4.0
Autumn	4.8
Summer	3.8



MyGOD – Paramétrage d'un widget

The screenshot displays the MyGOD interface with the following components:

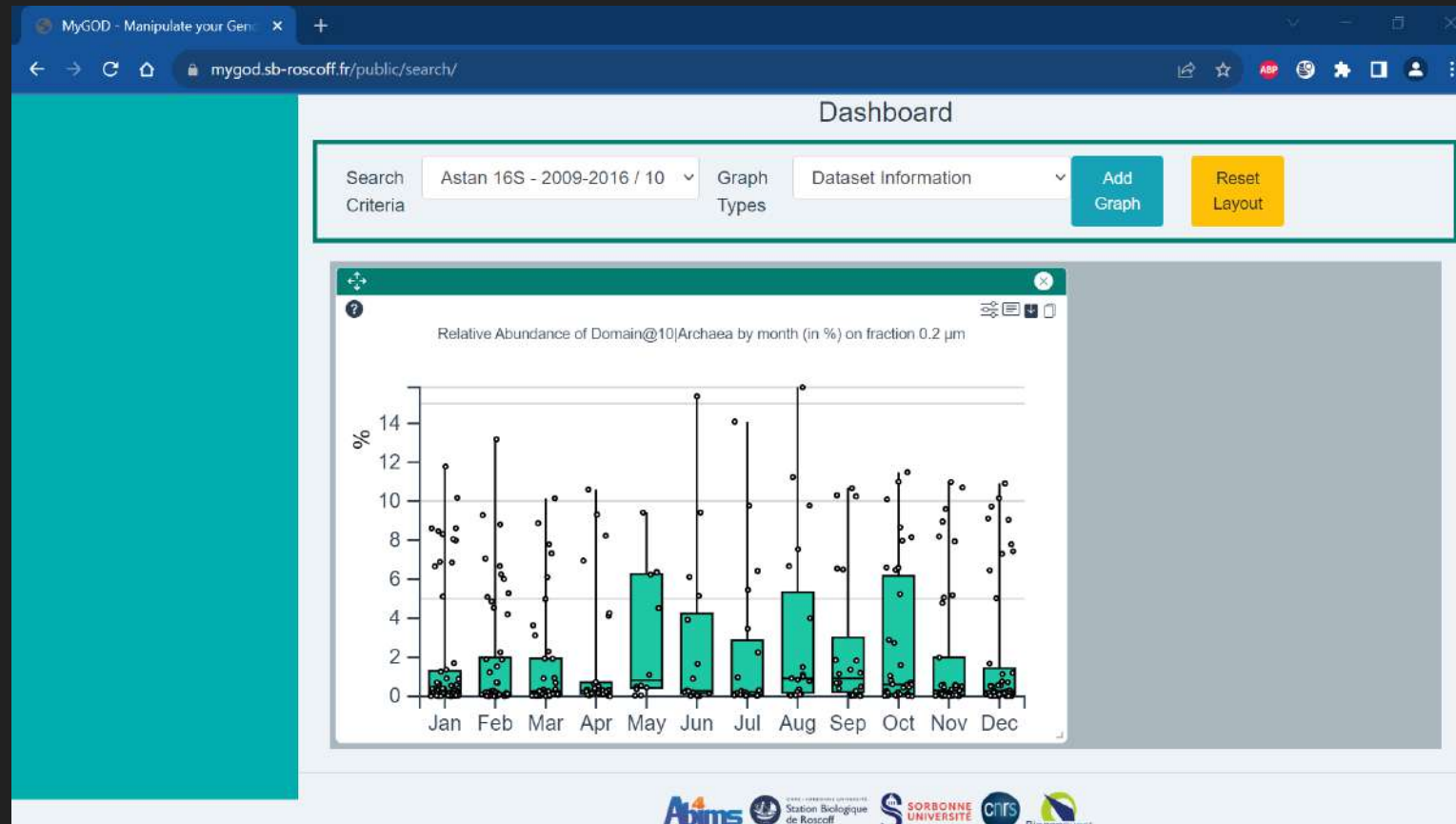
- Taxon Search Results**
 - Search Criteria**
 - Dataset: Astan 16S - 2009-2016
 - From: 2009-01-07 To: 2011-12-19
 - Taxon: 10|Archaea Rank: Any
 - Matches**
 - Taxa: 24 Sequences: 56
 - [Export Fasta](#)
 - Dataset Info**
 - Campaign: Astan 2009-2016
 - Marker: V4
 - Taxonomy Info**
 - Name: silva Version: 22252
 - Sampling Info**

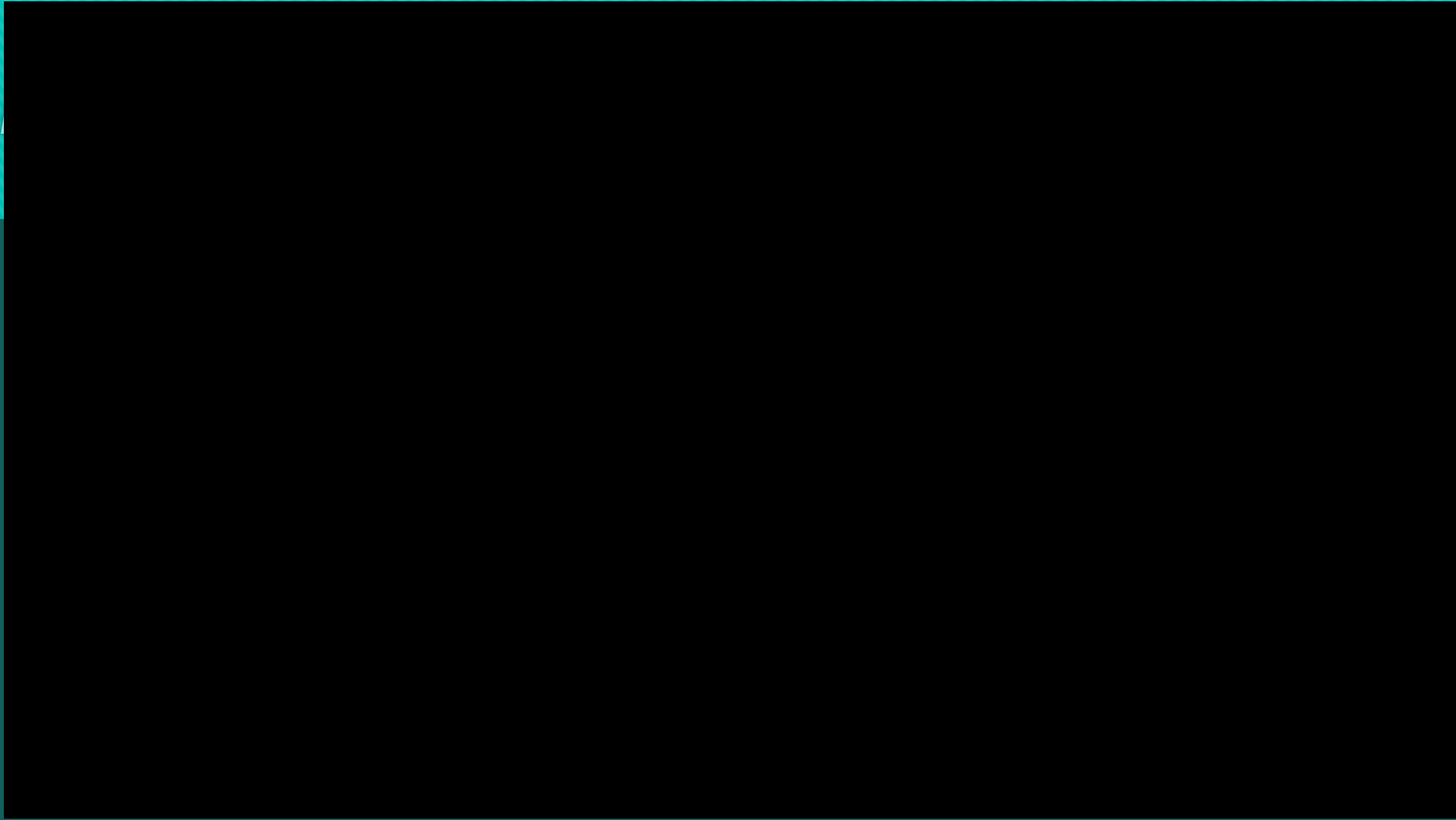
Events:	Sites:	Depth
70	1	Classes: 1
 - Clustering**

Name	Stations
------	----------
- Taxonomic Sunburst on 0.2 µm at depth SRF**: A donut chart showing the relative abundance of taxa.
- Relative Abundance of Domain@10|Archaea by Season (in %) on fraction 0.2 µm**: A scatter plot with error bars showing relative abundance across Winter, Spring, Summer, and Autumn.
- Evolution of relative abundances of Domain@10|Archaea in % between 2009-01-07 and 2011-12-19 on fraction 0.2 µm**: A line graph showing the temporal evolution of relative abundance from 2009 to 2011.

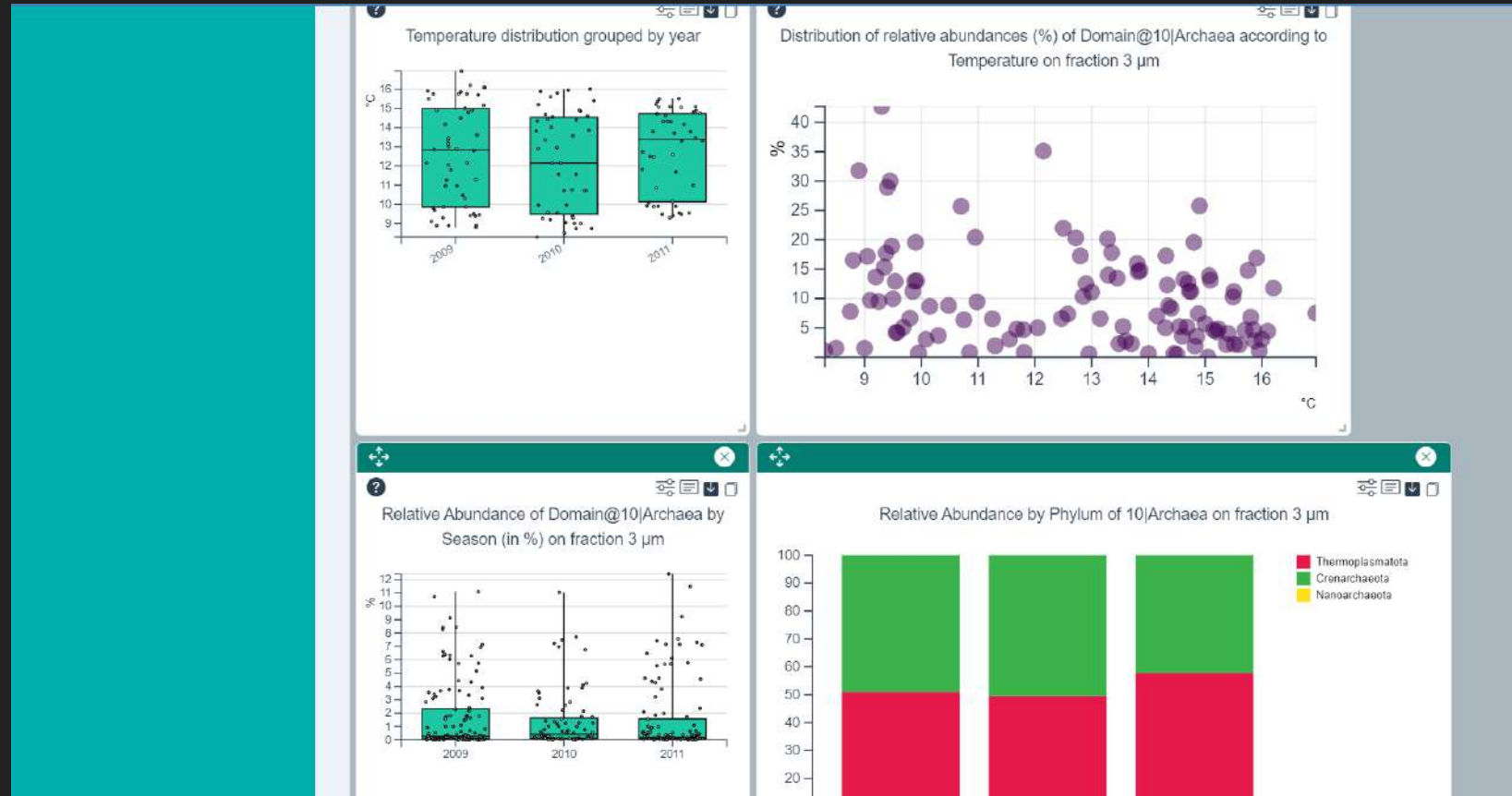


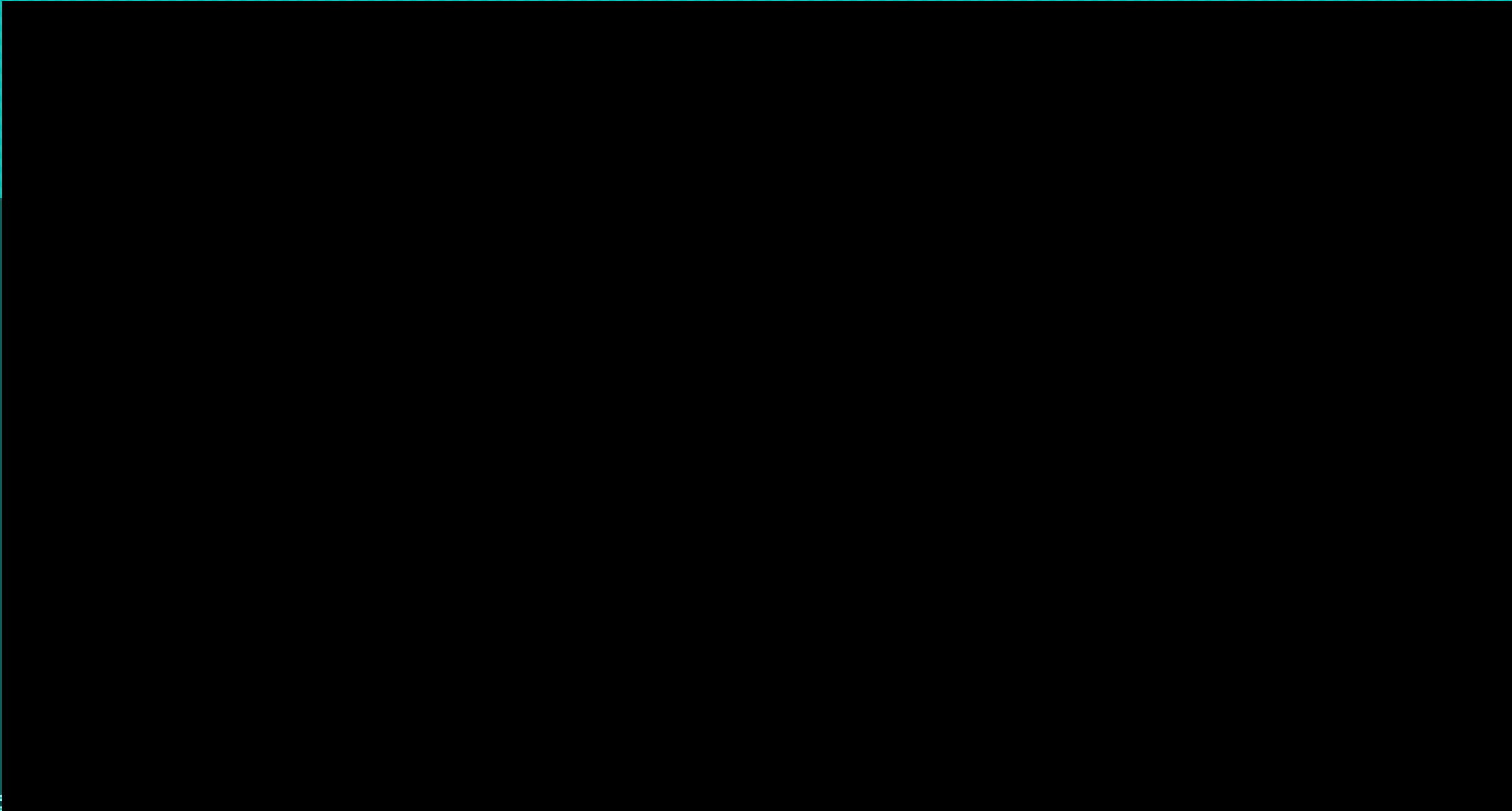
MyGOD – Clonage d'un widget

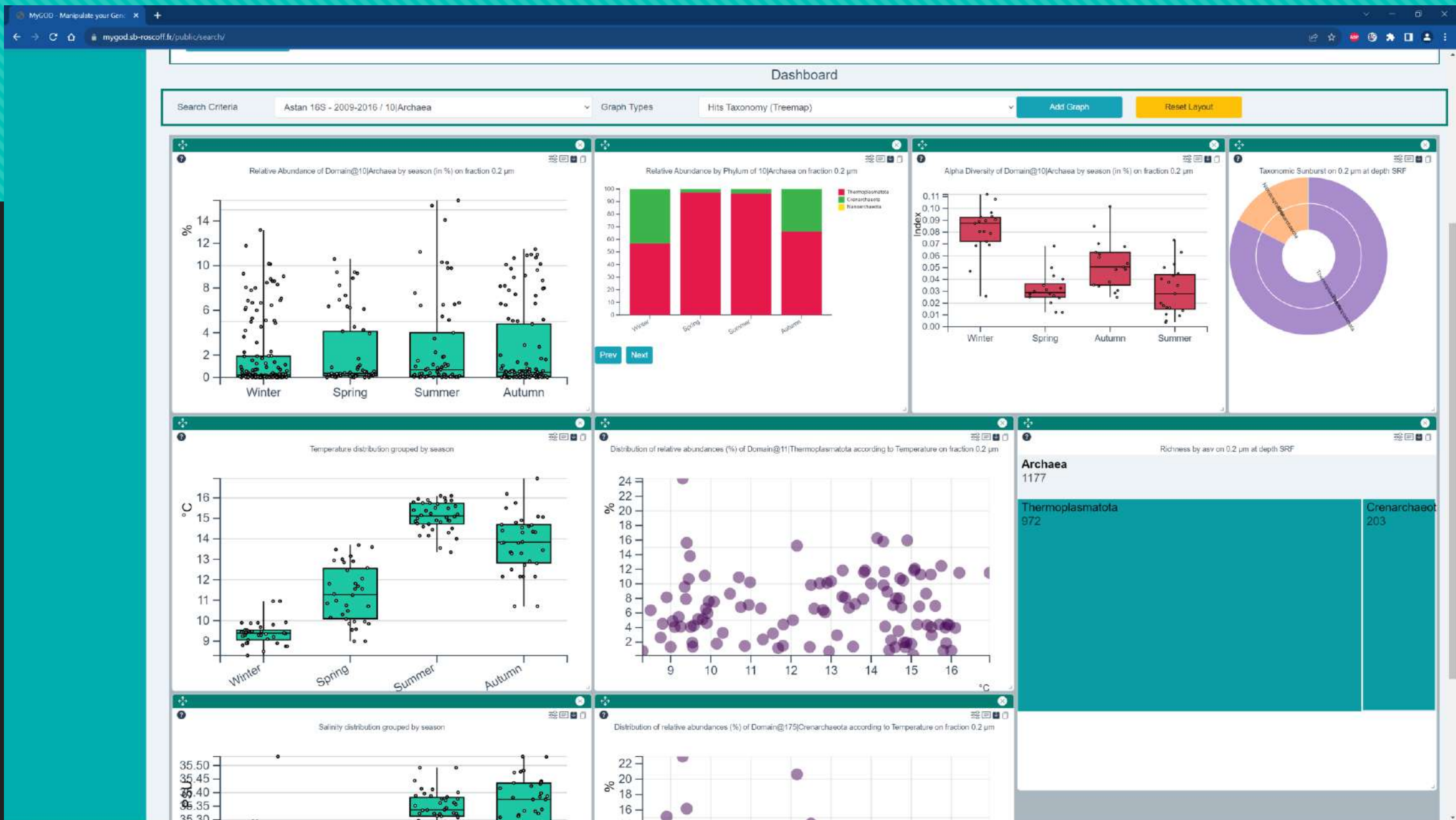




MyGOD – Composition d'un *dashboard*





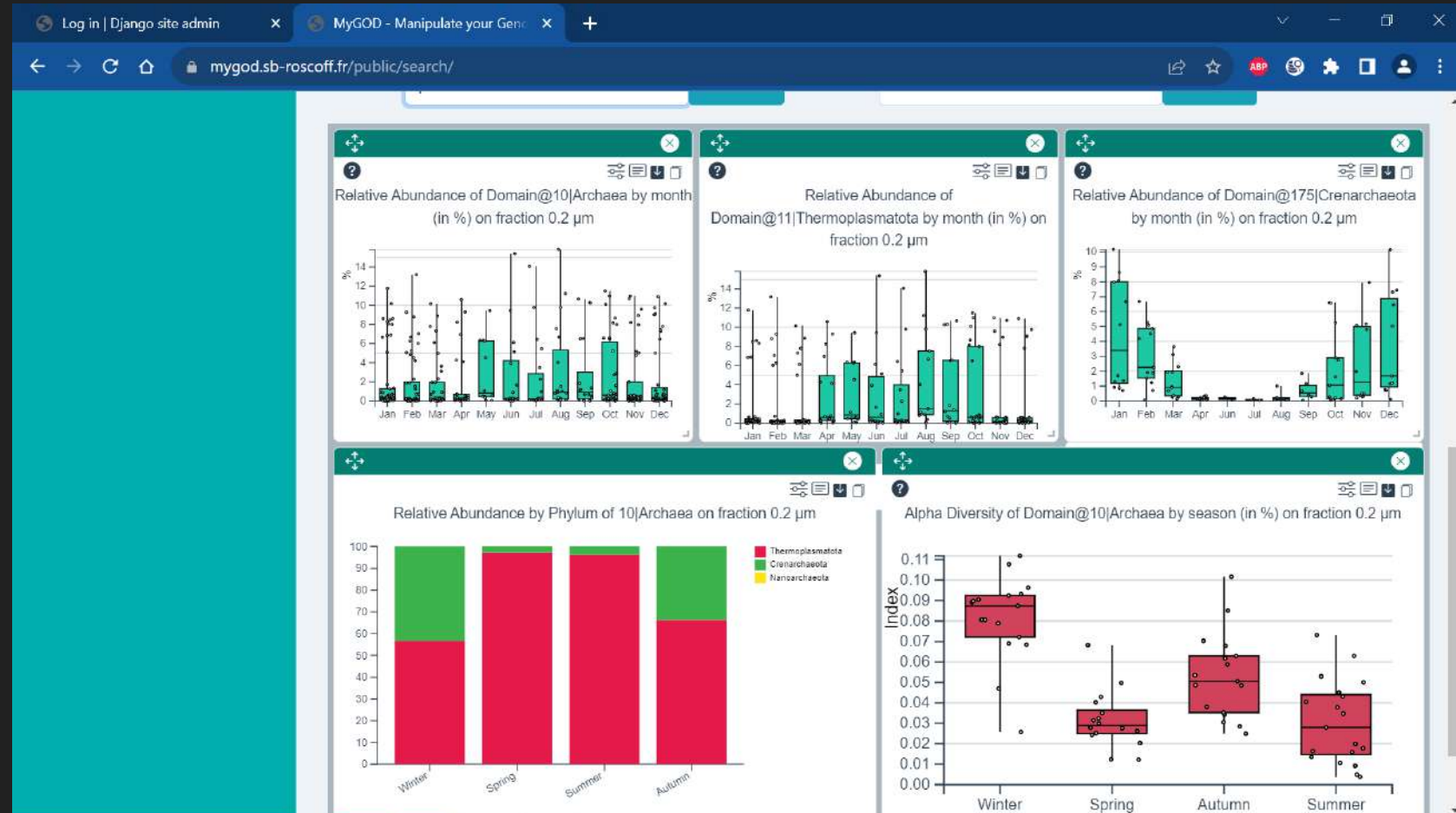


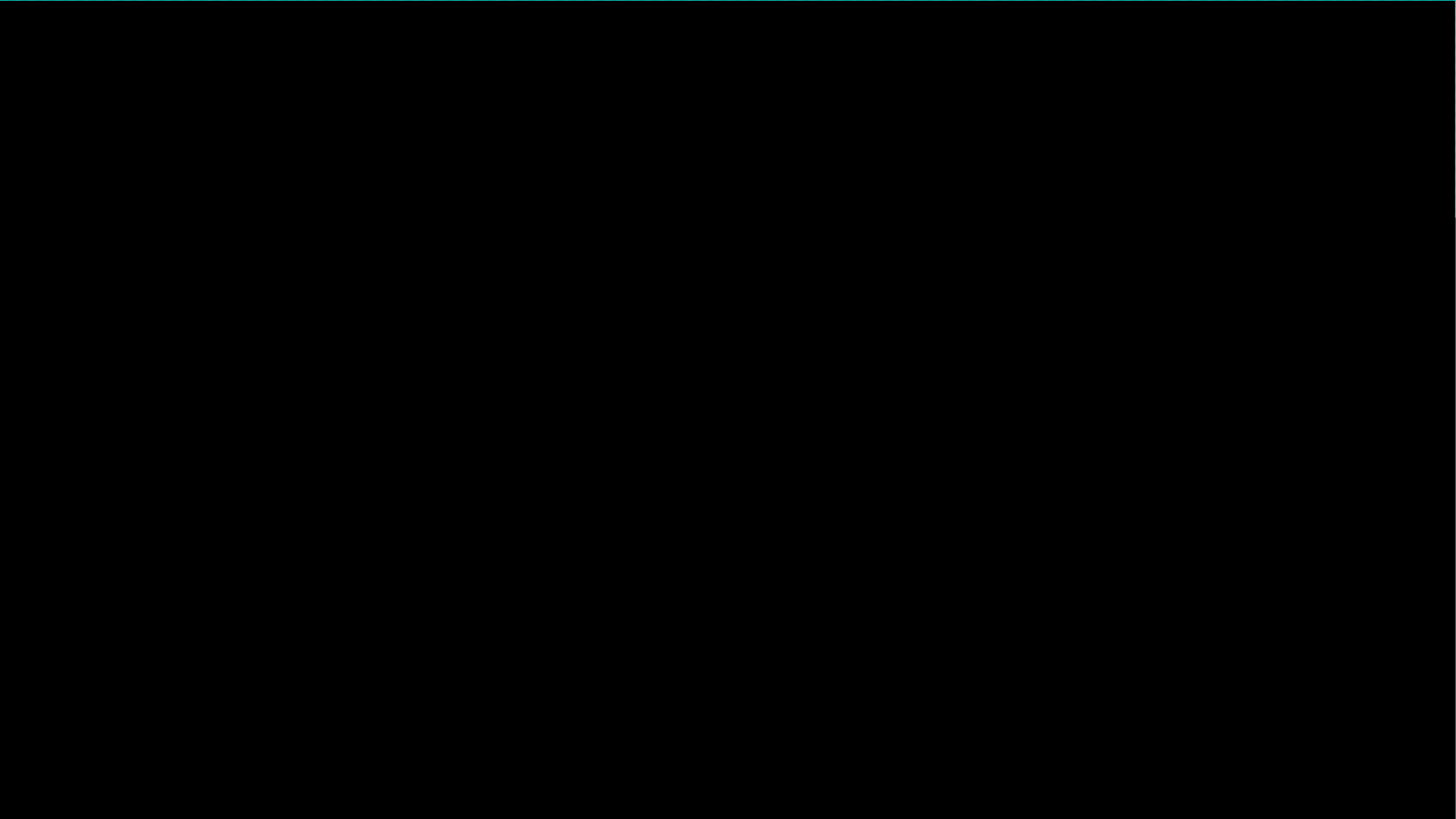
MyGOD – Jeux de données multiples





MyGOD – Persistence des dashboards





MyGOD –Partage de dashboards

The screenshot shows the MyGOD user interface. The browser address bar indicates the URL is localhost:9090/mygod/user/. The user is logged in as 'mhoebeke' and has a 'Logout' option. The main menu on the left includes Home, Search, Gallery, Dataset, Help, Contact, Credits, and Latest Changes. The 'Personal Information' section displays the user's details: First name: Mark, Last name: HOEBEKE, Username: mhoebeke, Email: mark.hoebeke@cns.fr, and Status: Publisher. A table titled 'My Dashboard' is highlighted with a red border, showing a single entry 'Archaea - sample' with creation and update dates of Nov. 19, 2023, 3:03 p.m., and actions for Show, Share, Remove, and Promote. Below this, there are sections for 'My Gallery Entries' and 'Awaiting Publication Gallery Entries', both with empty tables. A dashed red box highlights the 'Shared Dashboards' section at the bottom, which also has an empty table.

Name	Created	Updated	Actions
Archaea - sample	Nov. 19, 2023, 3:03 p.m.	Nov. 19, 2023, 3:03 p.m.	Show Share Remove Promote

Name	Saved	Publication State	Actions
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Name	Created	By	Actions
------	---------	----	---------

Name	Actions
------	---------



MyGOD –Partage de *dashboards*

Partage avec tous les utilisateurs & toutes les utilisatrices de la même instance de MyGOD

My Dashboard			
Name	Created	Updated	Actions
Archaea - sample	Nov. 19, 2023, 3:03 p.m.	Nov. 19, 2023, 3:03 p.m.	<a>Show <a>Share <a>Remove <a>Promote

MyGOD –Partage de dashboards

Partage avec tous les utilisateurs & toutes les utilisatrices de la même instance de MyGOD

My Dashboard			
Name	Created	Updated	Actions
Archaea - sample	Nov. 19, 2023, 3:03 p.m.	Nov. 19, 2023, 3:03 p.m.	<a>Show <a>Share <a>Remove <a>Promote

Shared Dashboards	
Name	Actions
Archaea - sample	<a>Show



MyGOD –Partage de dashboards

Mise en avant d'un *dashboard* en tant qu'entrée de galerie

MyGOD Login | Register

MAIN MENU

- Home
- Search
- Gallery
- Dataset

OPTIONS

- Help
- Contact
- Credits
- Latest Changes

Archaea comparison

Example of Archea phylum comparison.

This examples shows the relative abundances and taxonomic decomposition of 16SV4 ASV assigned to the Archaea domain in the ASTAN dataset.

Relative Abundance of Domain@10|Archaea by Season (in %) on fraction 0.2 μ m

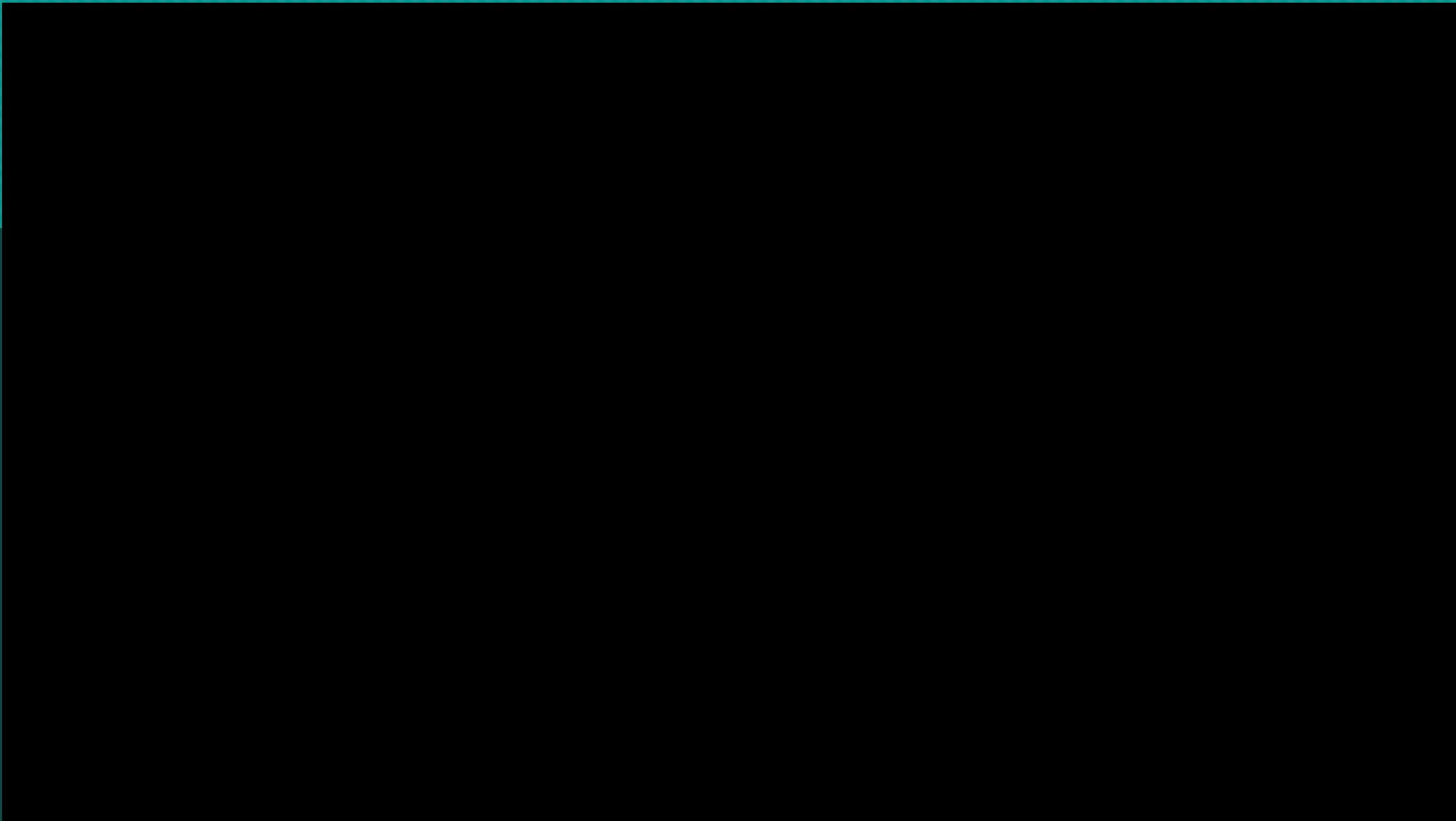
Season	Relative Abundance (%)
Jan	~1
Feb	~2
Mar	~2
Apr	~1
May	~6
Jun	~4
Jul	~3
Aug	~5
Sep	~3
Oct	~6
Nov	~2
Dec	~1

Relative Abundance of Domain@11|Thermoplasmata by Season (in %) on fraction 0.2 μ m

Season	Relative Abundance (%)
Jan	~1
Feb	~1
Mar	~1
Apr	~5
May	~6
Jun	~5
Jul	~4
Aug	~6
Sep	~5
Oct	~6
Nov	~6
Dec	~1

Relative Abundance of Domain@175|Crenarchaeota by Season (in %) on fraction 0.2 μ m

Season	Relative Abundance (%)
Feb	~4
Dec	~7
Jan	~8
Mar	~2
Apr	~1
Oct	~3
Nov	~5
Sep	~1
Jul	~1
Aug	~1
Jun	~1

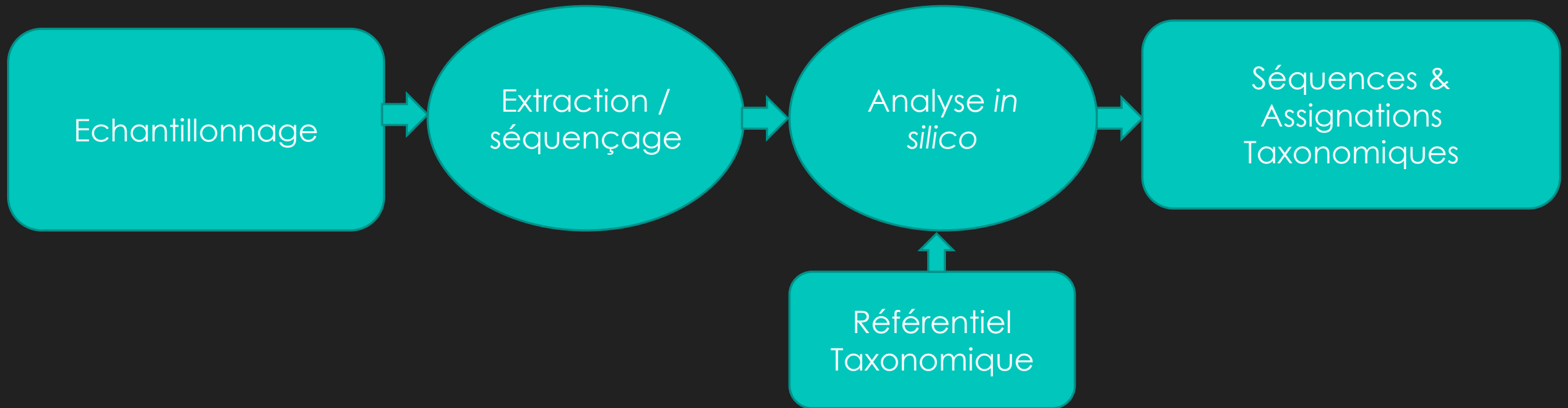


MyGOD

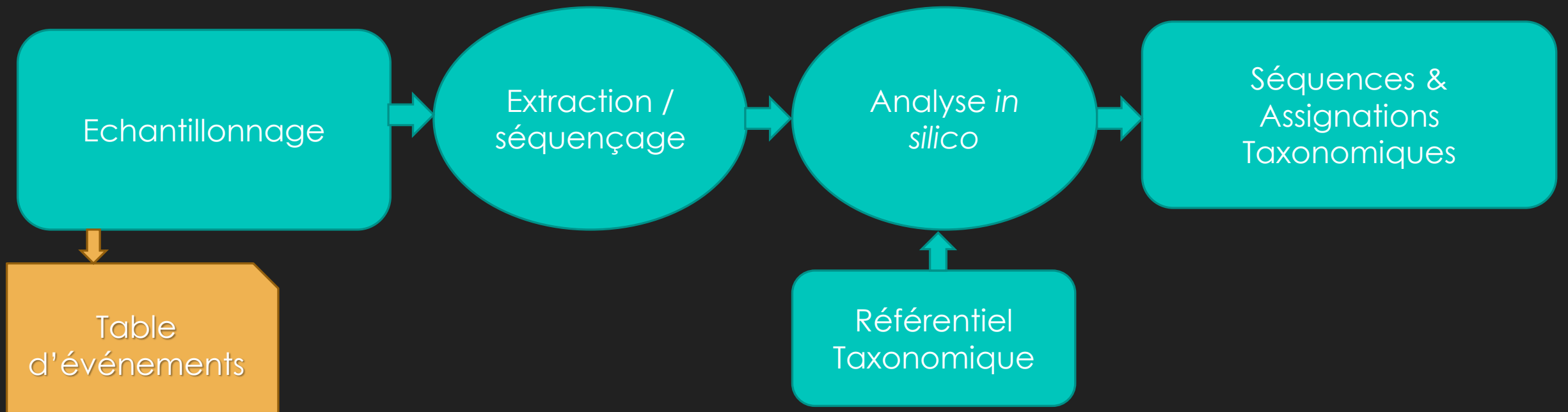
Mise en forme et importation de données



MyGOD – Nature & format des données



MyGOD – Nature & format des données



MyGOD – Nature & format des données

Echantillonnage

Table
d'événements

sample_id	station_code	depth_code	depth_min	min_frac_size	date_time_utc_start	latitude_start	longitude_start
RA090107_02	RA	SRF	5	0.2	2009-01-07	48.7716666666667	-3.96833333333333
RA090107_3	RA	SRF	5	3	2009-01-07	48.7716666666667	-3.96833333333333
RA090120_02	RA	SRF	5	0.2	2009-01-20	48.7716666666667	-3.96833333333333
RA090120_3	RA	SRF	5	3	2009-01-20	48.7716666666667	-3.96833333333333
RA090205_02	RA	SRF	5	0.2	2009-02-05	48.7716666666667	-3.96833333333333
RA090205_3	RA	SRF	5	3	2009-02-05	48.7716666666667	-3.96833333333333
RA090218_02	RA	SRF	5	0.2	2009-02-18	48.7716666666667	-3.96833333333333
RA090218_3	RA	SRF	5	3	2009-02-18	48.7716666666667	-3.96833333333333
RA090306_02	RA	SRF	5	0.2	2009-03-06	48.7716666666667	-3.96833333333333
RA090306_3	RA	SRF	5	3	2009-03-06	48.7716666666667	-3.96833333333333

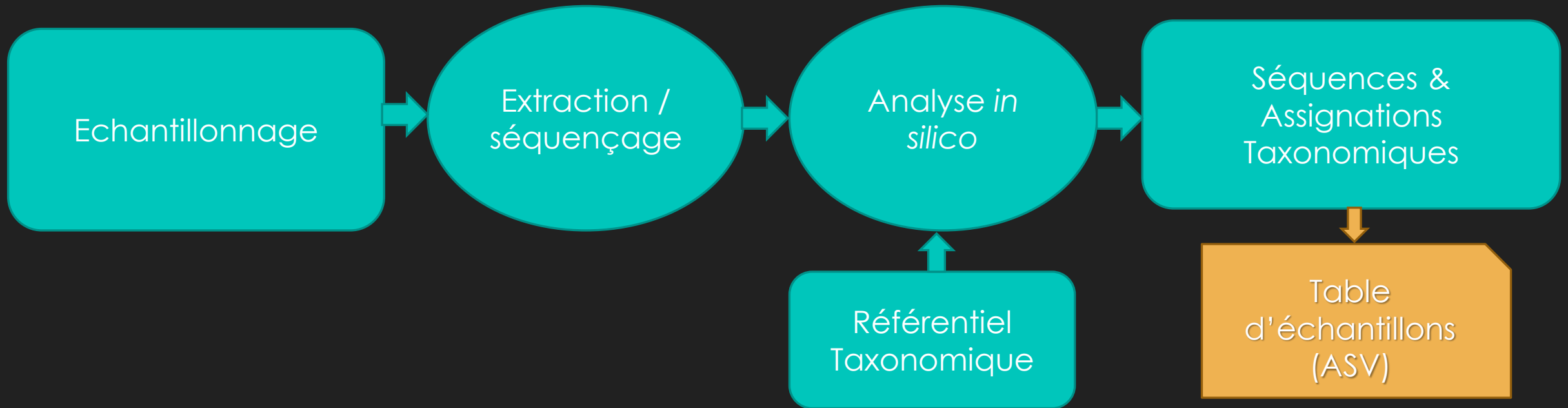
MyGOD – Nature & format des données

Echantillonnage

Table
d'événements

sample_id	station_code	depth_code	depth_min	min_frac_size	date_time_utc_start	latitude_start	longitude_start
RA090107_02	RA	SRF	5	0.2	2009-01-07	48.7716666666667	-3.96833333333333
RA090107_3	RA	SRF	5	3	2009-01-07	48.7716666666667	-3.96833333333333
RA090120_02	RA	SRF	5	0.2	2009-01-20	48.7716666666667	-3.96833333333333
RA090120_3	RA	SRF	5	3	2009-01-20	48.7716666666667	-3.96833333333333
RA090205_02	RA	SRF	5	0.2	2009-02-05	48.7716666666667	-3.96833333333333
RA090205_3	RA	SRF	5	3	2009-02-05	48.7716666666667	-3.96833333333333
RA090218_02	RA	SRF	5	0.2	2009-02-18	48.7716666666667	-3.96833333333333
RA090218_3	RA	SRF	5	3	2009-02-18	48.7716666666667	-3.96833333333333
RA090306_02	RA	SRF	5	0.2	2009-03-06	48.7716666666667	-3.96833333333333
RA090306_3	RA	SRF	5	3	2009-03-06	48.7716666666667	-3.96833333333333

MyGOD – Nature & format des données



MyGOD – Nature & format des données

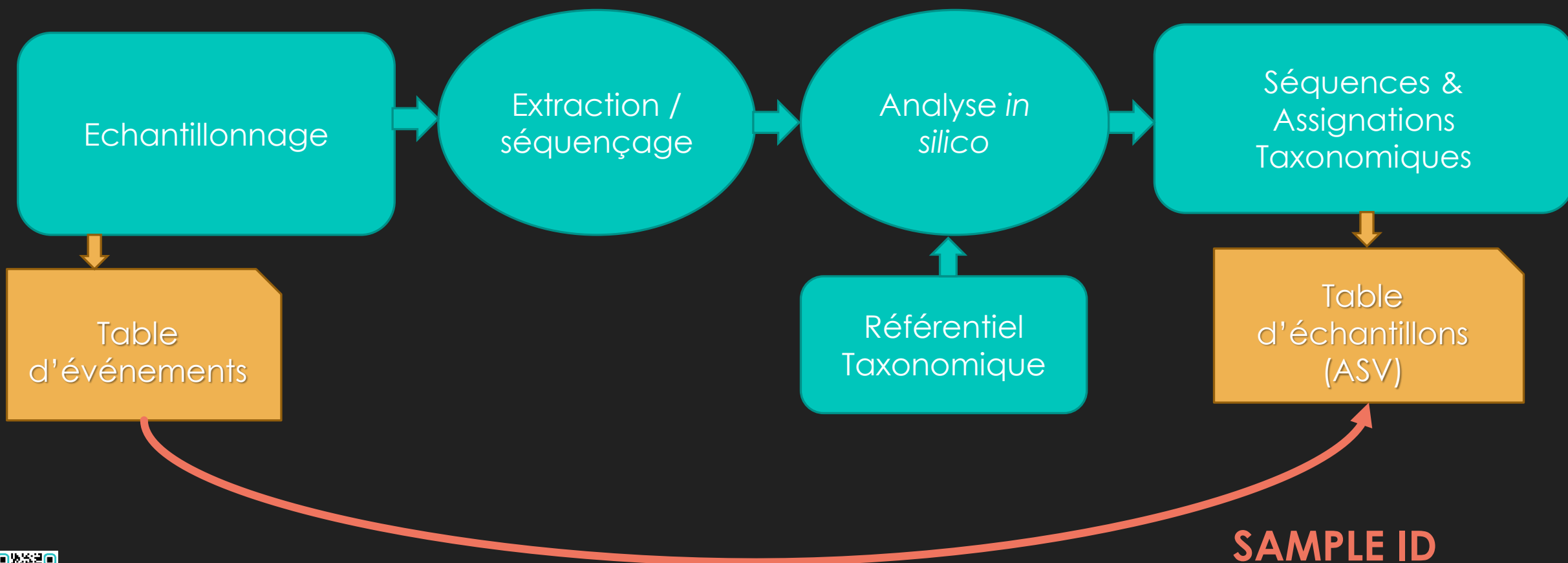
amplicon	sequence	taxonomy	taxonomy_score	RA090107_02	RA090107_3	RA090120_02
000c653229f735e750835c36e1a1adf78aa9e5d	TACGGAGGGTGCAGCGTT	Bacteria Bacteroidota Bacteroidia Flavobacteriales Crocini	100	0	0	0
001fa51ef78fc76baaf5752f763418b7819f37	TACGGAGGATGCAAGCGTT	Bacteria Bacteroidota Bacteroidia Flavobacteriales Cryom	100	0	0	0
0028200f0d35ac2e194f1f75b2c010d3a7dc35be	TACCGGGCCTCAAGTGGT	Archaea Thermoplasmata Thermoplasmata Marine_Group	99.7	1	0	2
004c0f74a94ef4189cbd8f678c9bed0f0ec12f2b	GACGGAGGATGCAAGTGT	Bacteria Cyanobacteria Cyanobacteriia Chloroplast uncultu	99.7	0	0	0
00642ab4b89b87f46f71be328a891046e66fc3c1	TACGGAGGATCCAAAGCGTT	Bacteria Bacteroidota Bacteroidia Flavobacteriales Flavob	100	0	0	0
00868fb83344432c7e757d9ae52283fdb6a4abd	TACGGAGGGTGCAGCGTT	Bacteria Proteobacteria Gammaproteobacteria Cellvibriona	98.9	0	0	0
00c43e7b6369f3ab56a0c7c22e0c6d6fd0abeb22	TACGGAGGTCCCAAGCGTT	Bacteria Verrucomicrobiota Verrucomicrobiae Arctic97B-4	100	22	13	5
00e461c03d71af6374c81e25c8c00d1a2071188	TACGGAGACTGCAAGCGTT	Bacteria Verrucomicrobiota Verrucomicrobiae Opitales Pu	98.7	0	0	0
01286d77a889468d08f209fabbd0f985e45c5f0c	TACGGAGGGCGCAAGCGTA	Bacteria Planctomycetota OM190	99.2	0	0	0
012a5c27f8135c6761bcc74d8201b30e6f678acc	GACGGAGGATGCAAGTGT	Bacteria Cyanobacteria Cyanobacteriia Chloroplast uncultu	99.7	0	0	0
012c4646dfd218822a31e52d715439b3589f5cf	TACGTAGGATGCAAGCGTT	Bacteria Chloroflexi Dehalococcoidia SAR202_clade mari	100	15	8	12
01353ab44c6786e3a7b113b4fb4c5dddde7447b8	TACGGAGGGGGCTAGCGTT	Bacteria Proteobacteria Alphaproteobacteria Defluviococcal	99.5	0	0	0
019b4abbaf7bef2442e86d3e39215cda294a023	TACGTAGGGTGCAGCGTT	Bacteria Proteobacteria Gammaproteobacteria Burkholderi	100	0	0	0
01b4d6fadfb640e7a9252cf863bb5ce74b313ada	TACGGAGGGGGCTAGCGTT	Bacteria Proteobacteria Alphaproteobacteria Rhodospirillal	96.2	0	0	0
01d7f27dcaf3473893ce96ff182d71aa0d091712	TACGGAGGGGGCAAGCGTT	Bacteria Proteobacteria Alphaproteobacteria Rickettsiales N	79.7	0	0	0
0267030855203e2868e653dab03c524e5b9398	TACGGAGGGTGCAGCGTT	Bacteria Proteobacteria Gammaproteobacteria Oceanospir	97.6	0	0	0
026b0850250a6372cfa01698e142f31414d70ec	GACGGAGGATGCAAGTGT	Bacteria Cyanobacteria Cyanobacteriia Chloroplast uncultu	98.4	0	0	0
0279ad893d997334e55608af715ab61bddfe0da	TACGGAAGGTGCAAGCGTT	Bacteria Bdellovibrionota Oligoflexia Oligoflexales uncultu	92	0	4	0
02b7b703b4b53ba2b6fd2dbe93f64bda54726f79	TACGGAGGGGACTAGCGTT	Bacteria Proteobacteria Alphaproteobacteria Rhodobactera	100	0	0	0
02c69a8750e1b49ebdc19ab97eee3bf03c4434	TACGGAGGGTGCAGCGTT	Bacteria Proteobacteria Gammaproteobacteria Oceanospiri	100	97	52	80
02e1ae672ef7d01a3c817a11bad171f38b0c50e	GACGGAGGATGCAAGTGT	Bacteria Cyanobacteria Cyanobacteriia Chloroplast	99.7	0	0	0
03078460787d197558165e1d4b7b07636a93e7	TACGAAGGGACCTAGCGTA	Bacteria Proteobacteria Alphaproteobacteria SAR11_clade	100	470	413	438
033187b1534be69f8bf7f1400ac579a00a88917	GACGGAGGGCGCAAGCGTT	Bacteria Gemmatimonadota BD2-11_terrestrial_group uncu	98.7	0	0	0
03553d8bf45c91fb1791cf20511d7842872de891	TACGTAGGGACCAAGCGTT	Bacteria Actinobacteriota Acidimicrobiia Microtrichales Mi	99.5	0	0	0
0380500e353cd8dcaf2810c93666ce918f399bf0	TACGGAGGATGCAAGCGTT	Bacteria Bacteroidota Bacteroidia Flavobacteriales Cryom	99.7	0	0	0
039d44e70e5f0bcf76eeab612d821b07717d0be	TACGGAGGGTACAAACGTT	Bacteria Planctomycetota OM190 uncultured_bacterium	99.7	0	0	0
0408ac9edd68a42745fbc236a9a66634af70053	TACGGAGGGTGCAGCGTT	Bacteria Proteobacteria Gammaproteobacteria Cellvibriona	99.7	0	47	0
0416da962eb18966c4e7e27b527e5cb7af866f8	TACGGAGGGTGCAGCGTT	Bacteria Proteobacteria Gammaproteobacteria Alteromon	99.5	0	0	0

Séquences & Assignations Taxonomiques

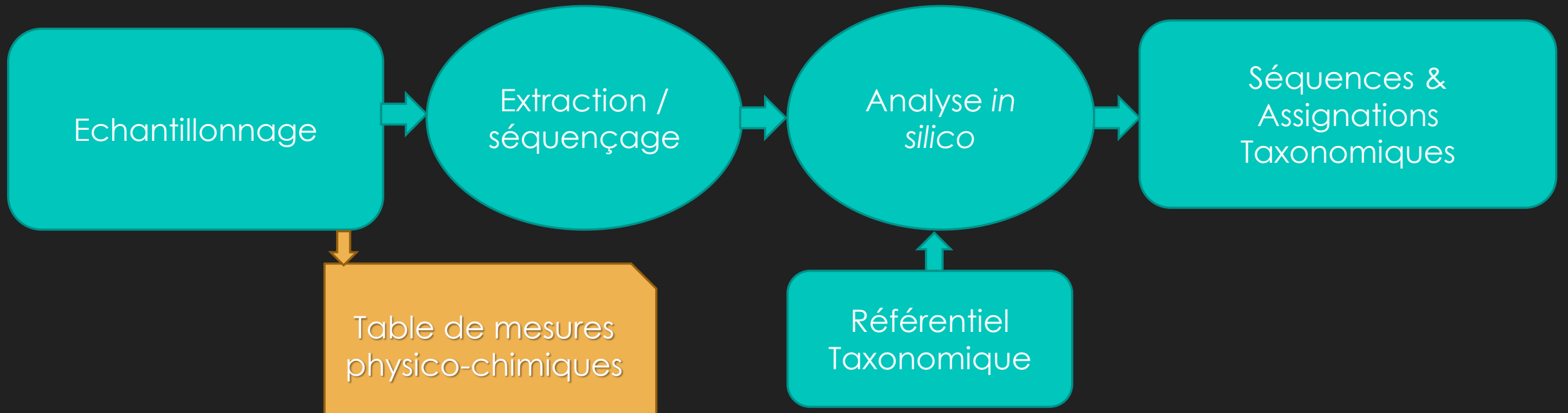
Table d'échantillons (ASV)



MyGOD – Nature & format des données



MyGOD – Nature & format des données



MyGOD – Nature & format des données

ID_SITE	DATE (yyyy-mm-dd)	HEURE (hh:mm:ss)	COEF_MAREE	MAREE	PROF_TEXT	PROF_NUM	nomSite*	gpsLat* (wgs84)	gpsLong* (wgs84)	T °C	qT	S PSU	qS	O ml/l
3	2009-01-07	13:10:00	53.00	PM	F	60.00	Astan	48.7778	-3.9375	9.300	2	35.234	2	6.27
3	2009-01-07	13:10:00	53.00	PM	S	1.00	Astan	48.7778	-3.9375	9.400	2	35.232	2	6.27
3	2009-01-20	12:05:00	34.00	PM	F	60.00	Astan	48.7778	-3.9375	9.450	2	35.293	2	6.41
3	2009-01-20	12:05:00	34.00	PM	S	1.00	Astan	48.7778	-3.9375	9.380	2	35.293	2	6.44
3	2009-02-05	13:47:00	45.00	PM	F	60.00	Astan	48.7778	-3.9375	8.900	2	35.114	2	6.29
3	2009-02-05	13:47:00	45.00	PM	S	1.00	Astan	48.7778	-3.9375	8.800	2	35.110	2	6.29
3	2009-02-18	11:01:00	27.00	PM	F	60.00	Astan	48.7778	-3.9375	8.900	2	35.027	2	6.36
3	2009-02-18	11:01:00	27.00	PM	S	1.00	Astan	48.7778	-3.9375	8.900	2	35.022	2	6.34
3	2009-03-06	12:47:00	42.00	PM	F	60.00	Astan	48.7778	-3.9375	9.500	2	34.892	2	6.36
3	2009-03-06	12:47:00	42.00	PM	S	1.00	Astan	48.7778	-3.9375	9.100	2	34.881	2	6.39
3	2009-03-20	12:06:00	24.00	PM	F	60.00	Astan	48.7778	-3.9375	9.680	2	34.926	2	6.37
3	2009-03-20	12:06:00	24.00	PM	S	1.00	Astan	48.7778	-3.9375	9.800	2	999999	1	6.15
3	2009-04-03	11:00:00	43.00	PM	F	60.00	Astan	48.7778	-3.9375	9.850	2	34.953	2	6.49
3	2009-04-03	11:00:00	43.00	PM	S	1.00	Astan	48.7778	-3.9375	9.850	2	34.947	2	6.51
3	2009-04-16	08:46:00	43.00	PM	F	60.00	Astan	48.7778	-3.9375	10.300	2	35.001	2	6.45
3	2009-04-16	08:46:00	43.00	PM	S	1.00	Astan	48.7778	-3.9375	10.480	2	34.987	2	6.48
3	2009-05-04	13:37:00	60.00	PM	F	60.00	Astan	48.7778	-3.9375	11.250	2	35.067	2	6.56
3	2009-05-04	13:37:00	60.00	PM	S	1.00	Astan	48.7778	-3.9375	11.300	2	35.065	2	6.62
3	2009-05-18	11:34:00	38.00	PM	F	60.00	Astan	48.7778	-3.9375	11.800	2	35.136	2	6.28
3	2009-05-18	11:34:00	38.00	PM	S	1.00	Astan	48.7778	-3.9375	12.050	2	35.134	2	6.28
3	2009-06-02	12:54:00	57.00	PM	F	60.00	Astan	48.7778	-3.9375	12.850	2	35.221	2	6.17
3	2009-06-02	12:54:00	57.00	PM	S	1.00	Astan	48.7778	-3.9375	13.000	2	35.215	2	6.19
3	2009-06-16	10:34:00	46.00	PM	F	60.00	Astan	48.7778	-3.9375	13.150	2	35.277	2	6.12
3	2009-06-16	10:34:00	46.00	PM	S	1.00	Astan	48.7778	-3.9375	13.600	2	35.262	2	6.17
3	2009-07-01	12:02:00	49.00	PM	F	60.00	Astan	48.7778	-3.9375	14.150	2	35.314	2	6.25
3	2009-07-01	12:02:00	49.00	PM	S	1.00	Astan	48.7778	-3.9375	14.500	2	35.309	2	6.32
3	2009-07-16	10:39:00	48.00	PM	F	60.00	Astan	48.7778	-3.9375	14.900	2	35.325	2	5.96
3	2009-07-16	10:39:00	48.00	PM	S	1.00	Astan	48.7778	-3.9375	15.000	2	35.323	2	5.96
3	2009-07-31	12:27:00	36.00	PM	F	60.00	Astan	48.7778	-3.9375	15.150	2	35.314	2	5.63
3	2009-07-31	12:27:00	36.00	PM	S	1.00	Astan	48.7778	-3.9375	15.700	2	35.323	2	5.66

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MyGOD – Nature & format des données

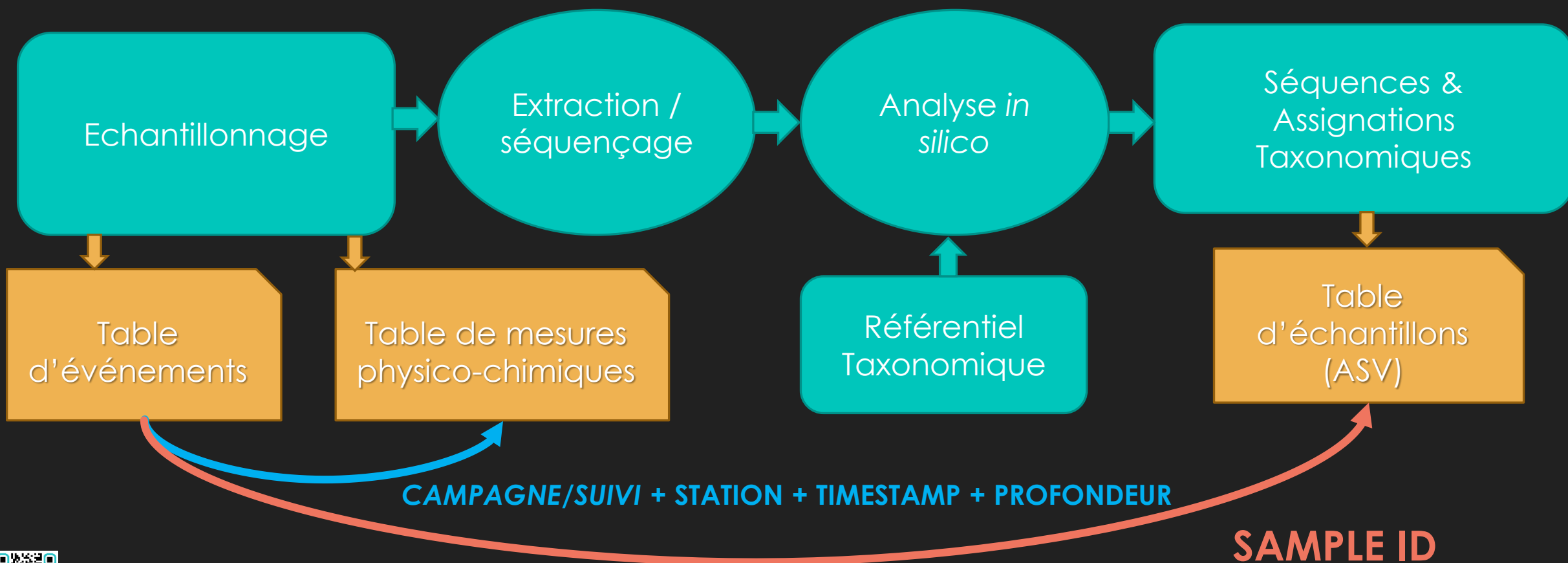
ID_SITE	DATE	HEURE	COEF_MAREE	MAREE	PROF_TEXT	PROF_NUM	nomSite*	gpsLat*	gpsLong*	T	qT	S	qS	O
//	yyyy-mm-dd)	(hh:mm:ss)	-	-	-	m		(wgs84)	(wgs84)	°C		PSU		ml/l
3	2009-01-07	13:10:00	53.00	PM	F	60.00	Astan	48.7778	-3.9375	9.300		235.234		26.27
3	2009-01-07	13:10:00	53.00	PM	S	1.00	Astan	48.7778	-3.9375	9.400		235.232		26.27
3	2009-01-20	12:05:00	34.00	PM	F	60.00	Astan	48.7778	-3.9375	9.450		235.293		26.41
3	2009-01-20	12:05:00	34.00	PM	S	1.00	Astan	48.7778	-3.9375	9.380		235.293		26.44
3	2009-02-05	13:47:00	45.00	PM	F	60.00	Astan	48.7778	-3.9375	8.900		235.114		26.29
3	2009-02-05	13:47:00	45.00	PM	S	1.00	Astan	48.7778	-3.9375	8.800		235.110		26.29
3	2009-02-18	11:01:00	27.00	PM	F	60.00	Astan	48.7778	-3.9375	8.900		235.027		26.36
3	2009-02-18	11:01:00	27.00	PM	S	1.00	Astan	48.7778	-3.9375	8.900		235.022		26.34
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3	2009-03-06	12:47:00	42.00	PM	S	1.00	Astan	48.7778	-3.9375	9.100		234.881		26.39
3	2009-03-20	12:06:00	24.00	PM	F	60.00	Astan	48.7778	-3.9375	9.680		234.926		26.37
3	2009-03-20	12:06:00	24.00	PM	S	1.00	Astan	48.7778	-3.9375	9.800		2999999		16.15
3	2009-04-03	11:00:00	43.00	PM	F	60.00	Astan	48.7778	-3.9375	9.850		234.953		26.49
3	2009-04-03	11:00:00	43.00	PM	S	1.00	Astan	48.7778	-3.9375	9.850		234.947		26.51
3	2009-04-16	08:46:00	43.00	PM	F	60.00	Astan	48.7778	-3.9375	10.300		235.001		26.45
3	2009-04-16	08:46:00	43.00	PM	S	1.00	Astan	48.7778	-3.9375	10.480		234.987		26.48
3	2009-05-04	13:37:00	60.00	PM	F	60.00	Astan	48.7778	-3.9375	11.250		235.067		26.56
3	2009-05-04	13:37:00	60.00	PM	S	1.00	Astan	48.7778	-3.9375	11.300		235.065		26.62
3	2009-05-18	11:34:00	38.00	PM	F	60.00	Astan	48.7778	-3.9375	11.800		235.136		26.28
3	2009-05-18	11:34:00	38.00	PM	S	1.00	Astan	48.7778	-3.9375	12.050		235.134		26.28
3	2009-06-02	12:54:00	57.00	PM	F	60.00	Astan	48.7778	-3.9375	12.850		235.221		26.17
3	2009-06-02	12:54:00	57.00	PM	S	1.00	Astan	48.7778	-3.9375	13.000		235.215		26.19
3	2009-06-16	10:34:00	46.00	PM	F	60.00	Astan	48.7778	-3.9375	13.150		235.277		26.12
3	2009-06-16	10:34:00	46.00	PM	S	1.00	Astan	48.7778	-3.9375	13.600		235.262		26.17
3	2009-07-01	12:02:00	49.00	PM	F	60.00	Astan	48.7778	-3.9375	14.150		235.314		26.25
3	2009-07-01	12:02:00	49.00	PM	S	1.00	Astan	48.7778	-3.9375	14.500		235.309		26.32
3	2009-07-16	10:39:00	48.00	PM	F	60.00	Astan	48.7778	-3.9375	14.900		235.325		25.96
3	2009-07-16	10:39:00	48.00	PM	S	1.00	Astan	48.7778	-3.9375	15.000		235.323		25.96
3	2009-07-31	12:27:00	36.00	PM	F	60.00	Astan	48.7778	-3.9375	15.150		235.314		25.63
3	2009-07-31	12:27:00	36.00	PM	S	1.00	Astan	48.7778	-3.9375	15.700		235.323		25.66

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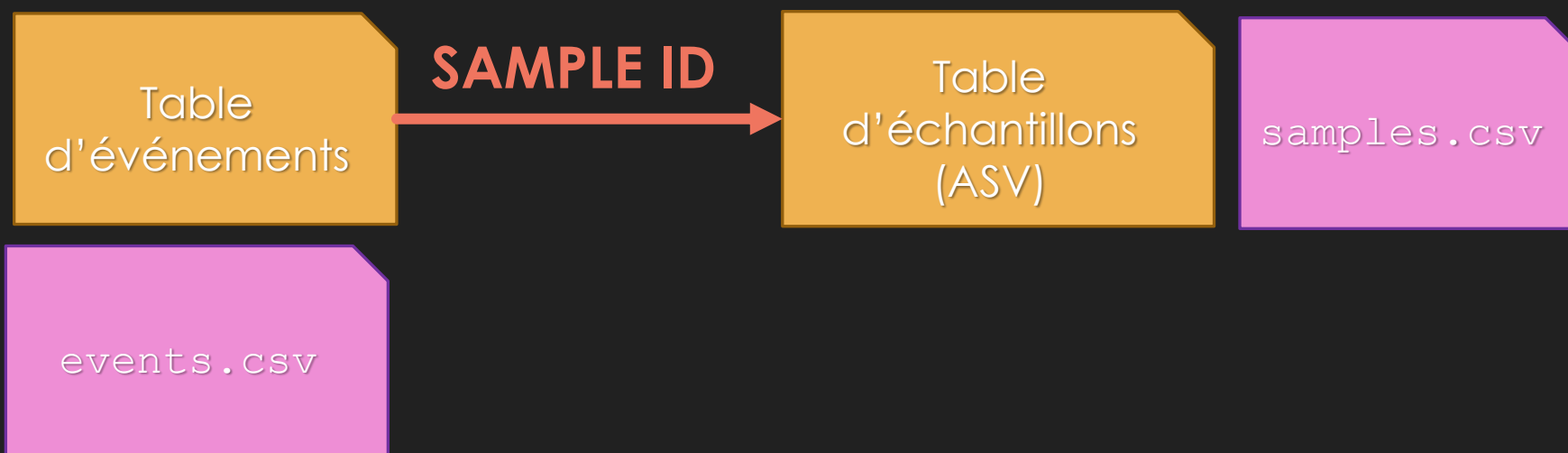
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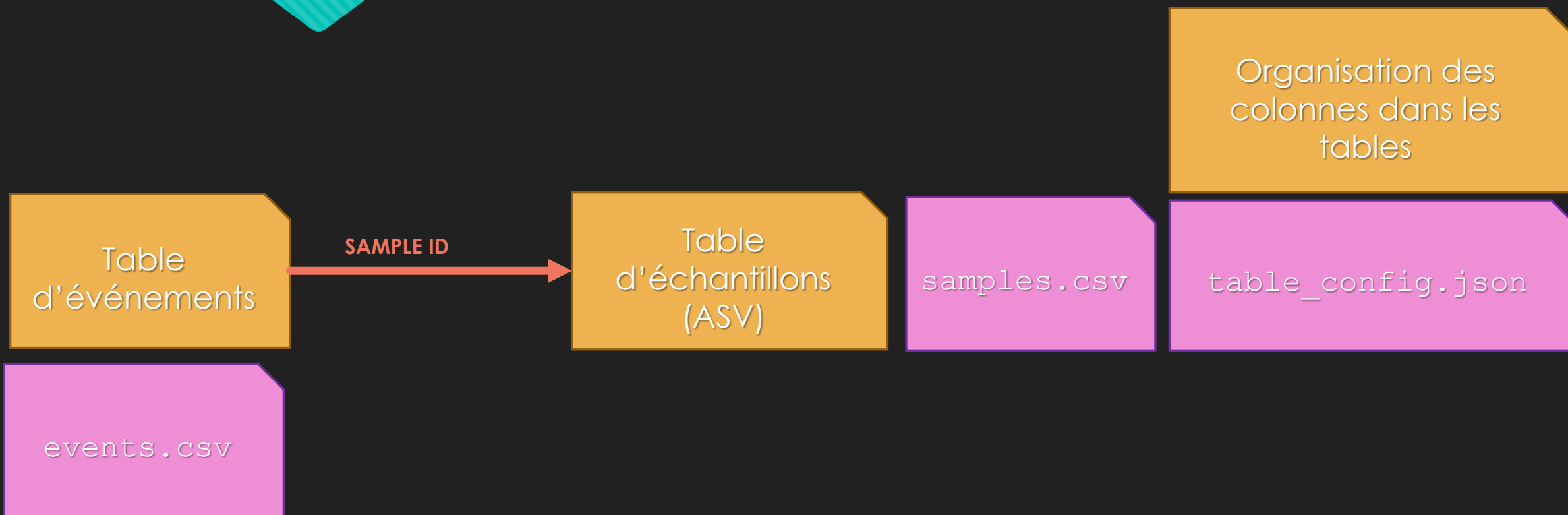
MyGOD – Nature & format des données



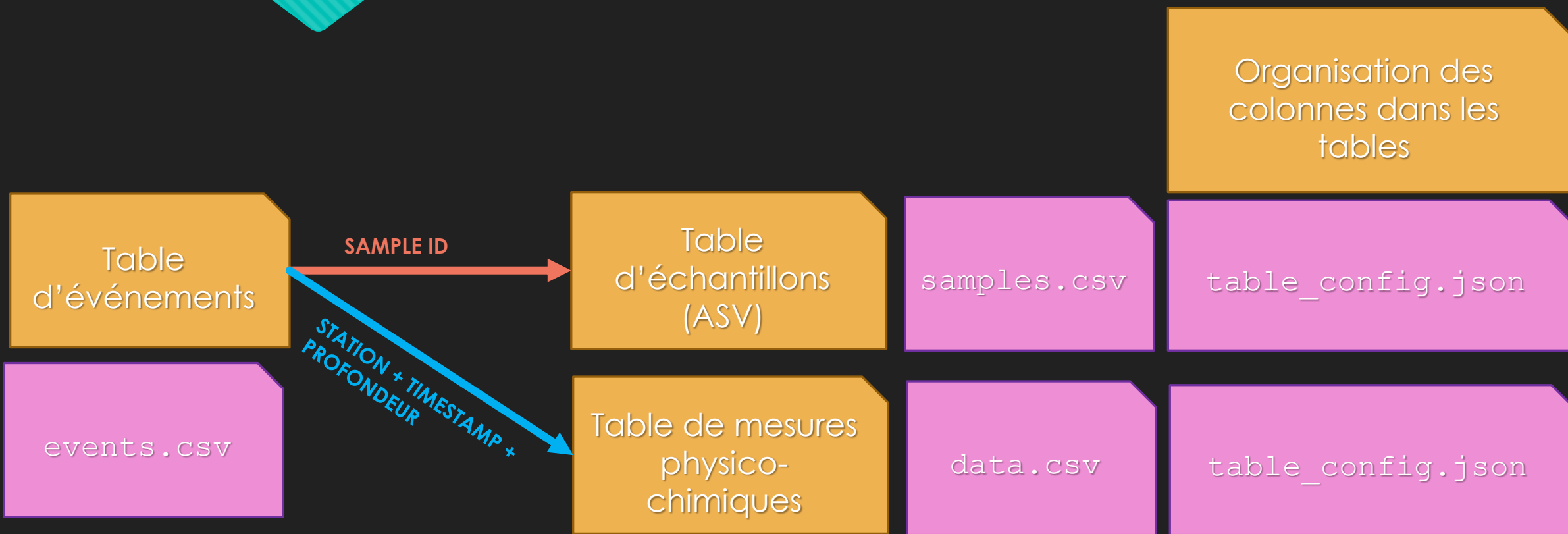
MyGOD – Nature & format des données



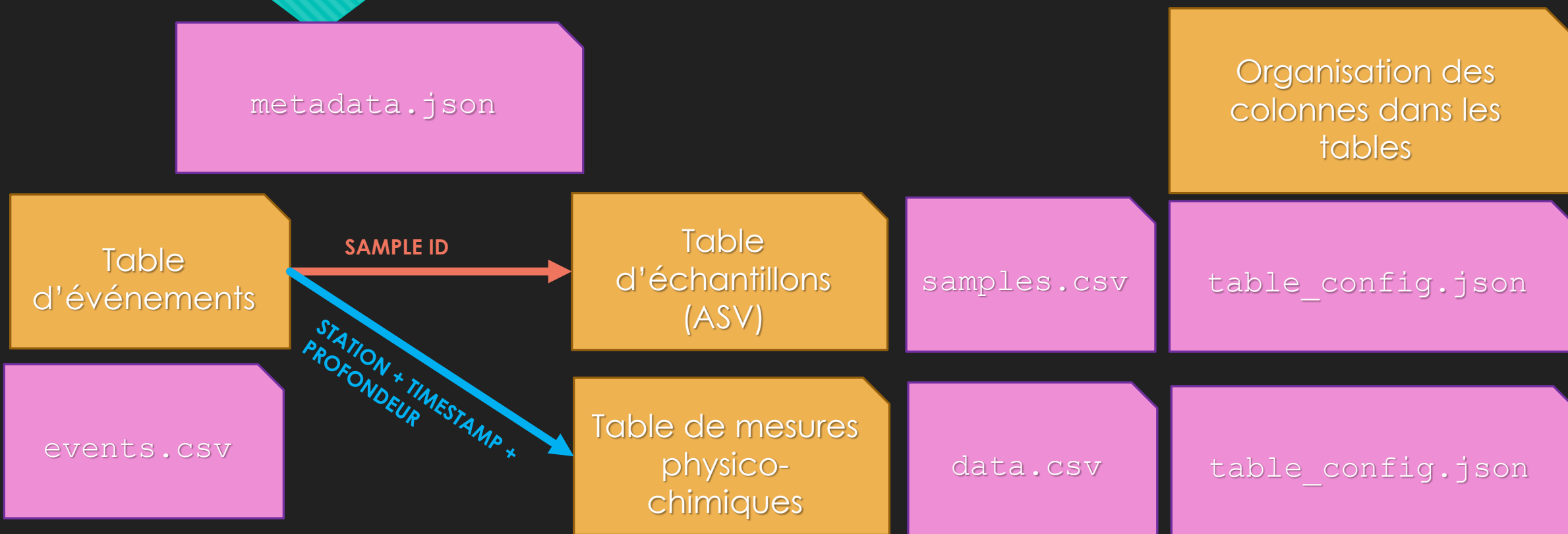
MyGOD – Nature & format des données



MyGOD – Nature & format des données

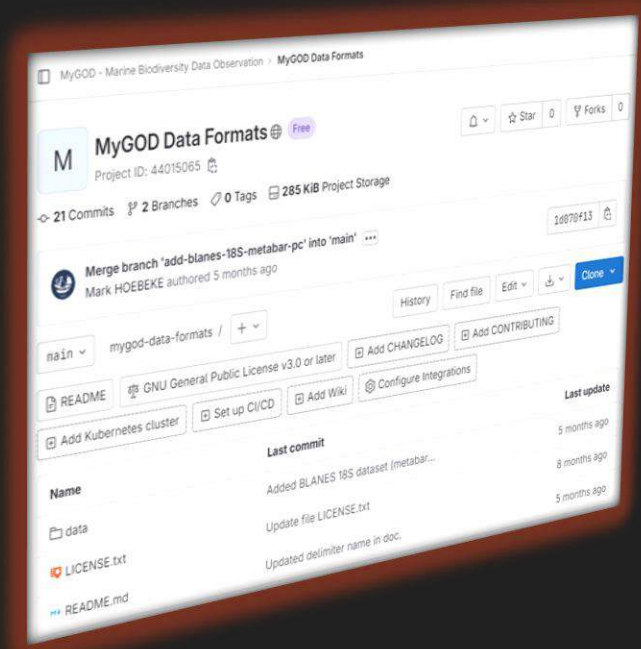


MyGOD – Nature & format des données



MyGOD – Organisation des jeux de données

Proposition d'organisation normalisée
adaptée à l'importation *automatique*



<https://gitlab.com/mygod-biodiv/mygod-data-formats>

```
▼ MYGOD-DATA-FORMATS
  ▼ data
    ▼ metabar
      > ASTAN_16S_2009-2016
      > ASTAN_18S_2009-2016
      > BLANES_18S
      > OSD2018_16S
      > OSD2019_16S
      ⓘ README.md
    ▼ pc
      > ASTAN_SOMLIT
      > BLANES
      > OSD2018
      > OSD2019
      ⓘ README.md
```

```
▼ metabar
  ▼ ASTAN_16S_2009-2016
    📄 events.csv
    {} metadata.json
    ⓘ README.md
    📄 samples.csv
    {} table_config.json
```

```
▼ pc
  ▼ ASTAN_SOMLIT
    📄 data.csv
    ⓘ README.md
    {} table_config.json
```



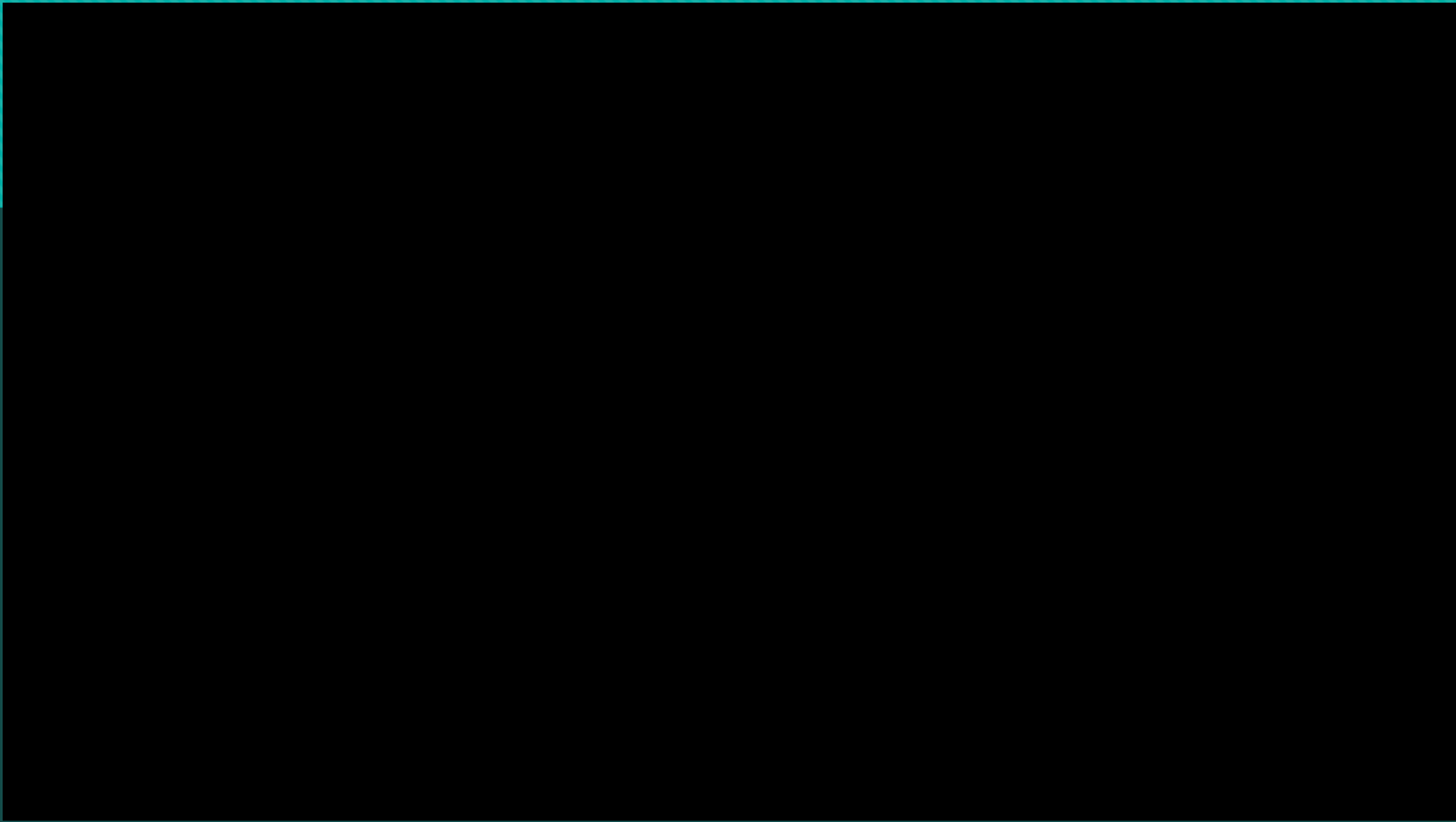
MyGOD – Importation de données

The screenshot shows the MyGOD web interface in a browser window. The address bar indicates the URL is localhost:9090/mygod/user/. The interface is divided into several sections:

- Awaiting Publication Gallery Entries:** A table with columns: Name, Created, By, Actions.
- Shared Dashboards:** A table with columns: Name, Actions.
- My Datasets:** A table with columns: Name, Actions. One dataset is listed: "Astan 16S - 2009-2016" with buttons for "Modify Metadata", "Remove Dataset", and "Edit Clusters".
- My Imports:** A table with columns: Name, Status (Dry run), Imported, Actions. One import is listed: "OSD 16S - 2018" with status "complete (True)" and imported on "Nov. 18, 2023, 4:13 p.m.". The Actions column contains "Display Logs", "Launch Import", and "Remove Files".

At the bottom of the My Imports section, there are two buttons: "Import Metabar Data" and "Import Physico-chemical Data".



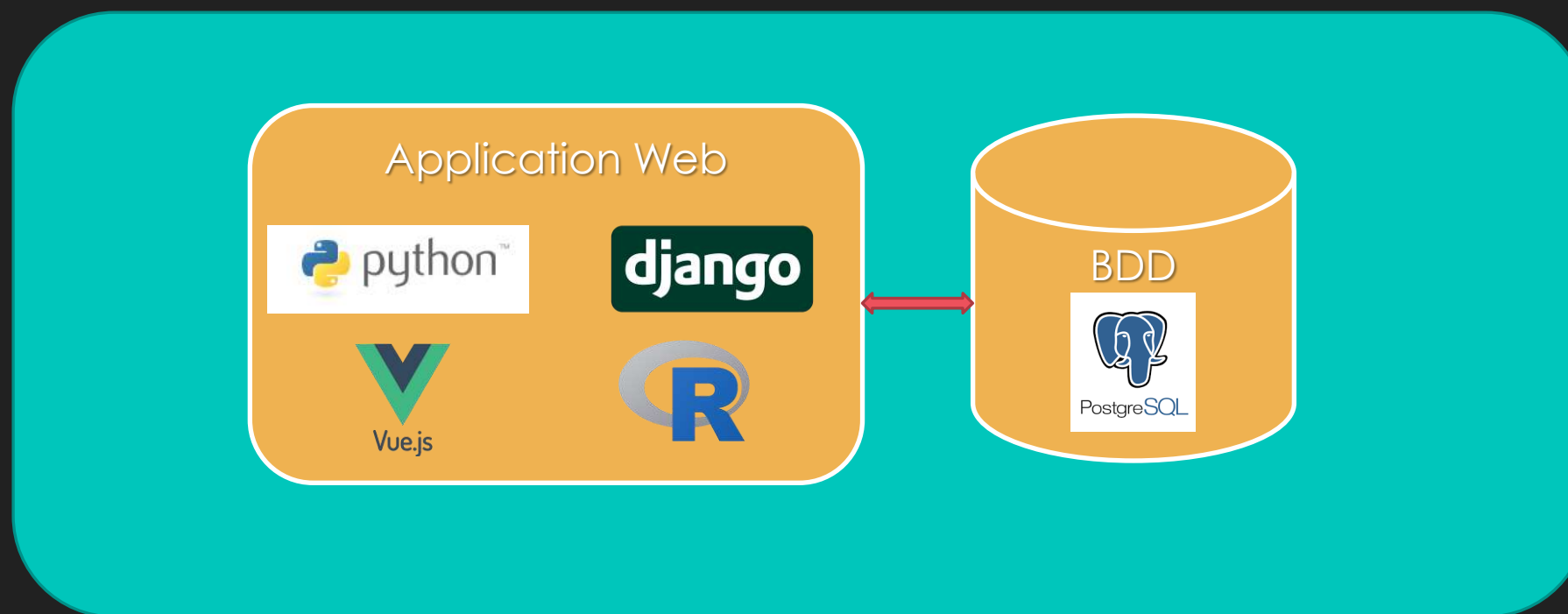


MyGOD

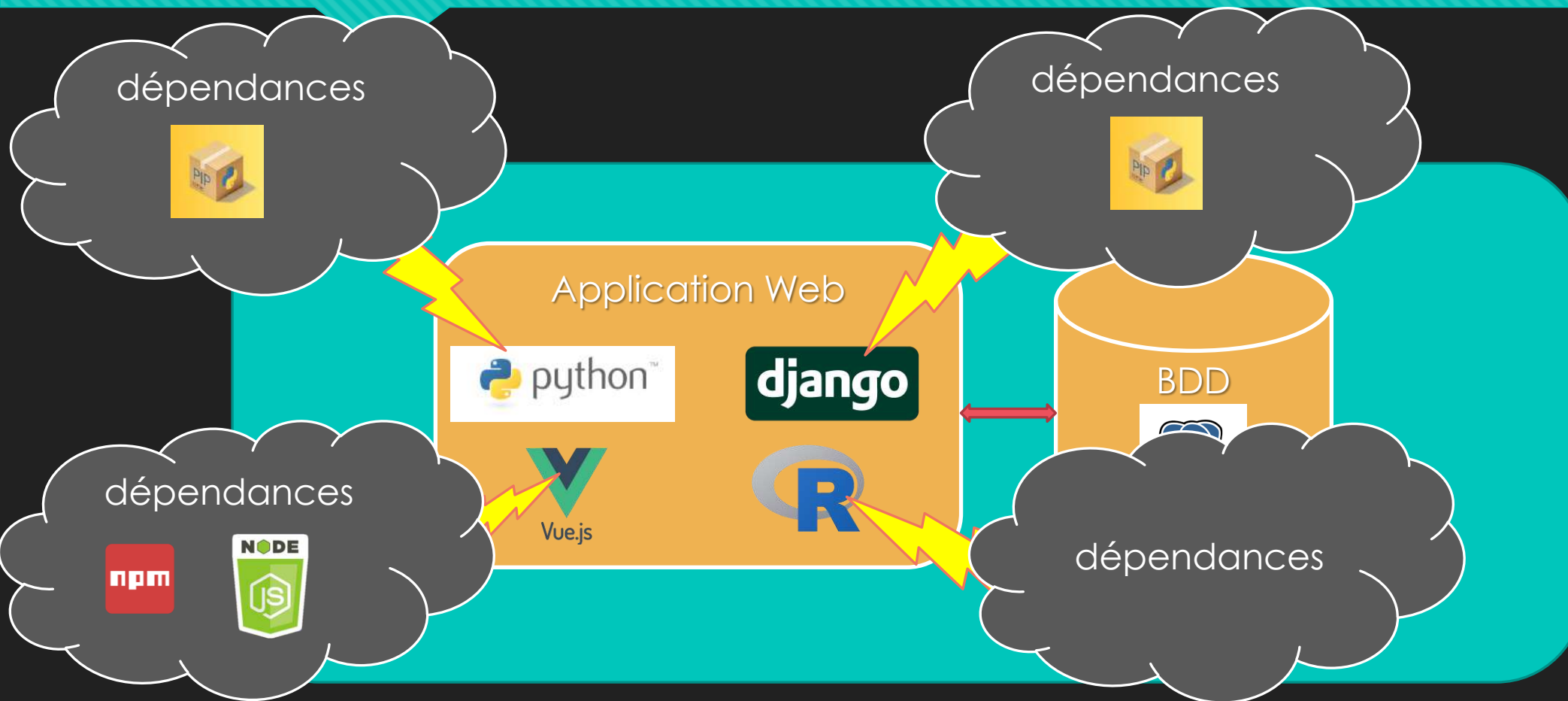
Déploiement



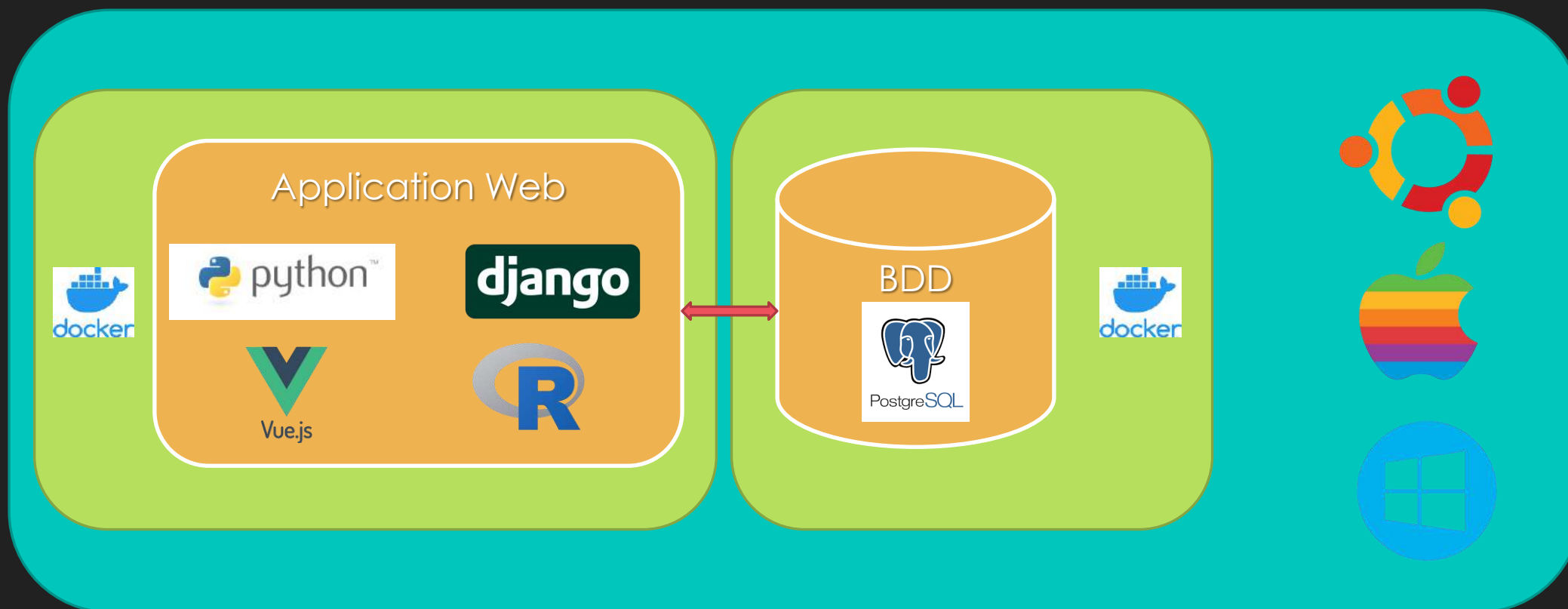
Déploiement - Architecture technique



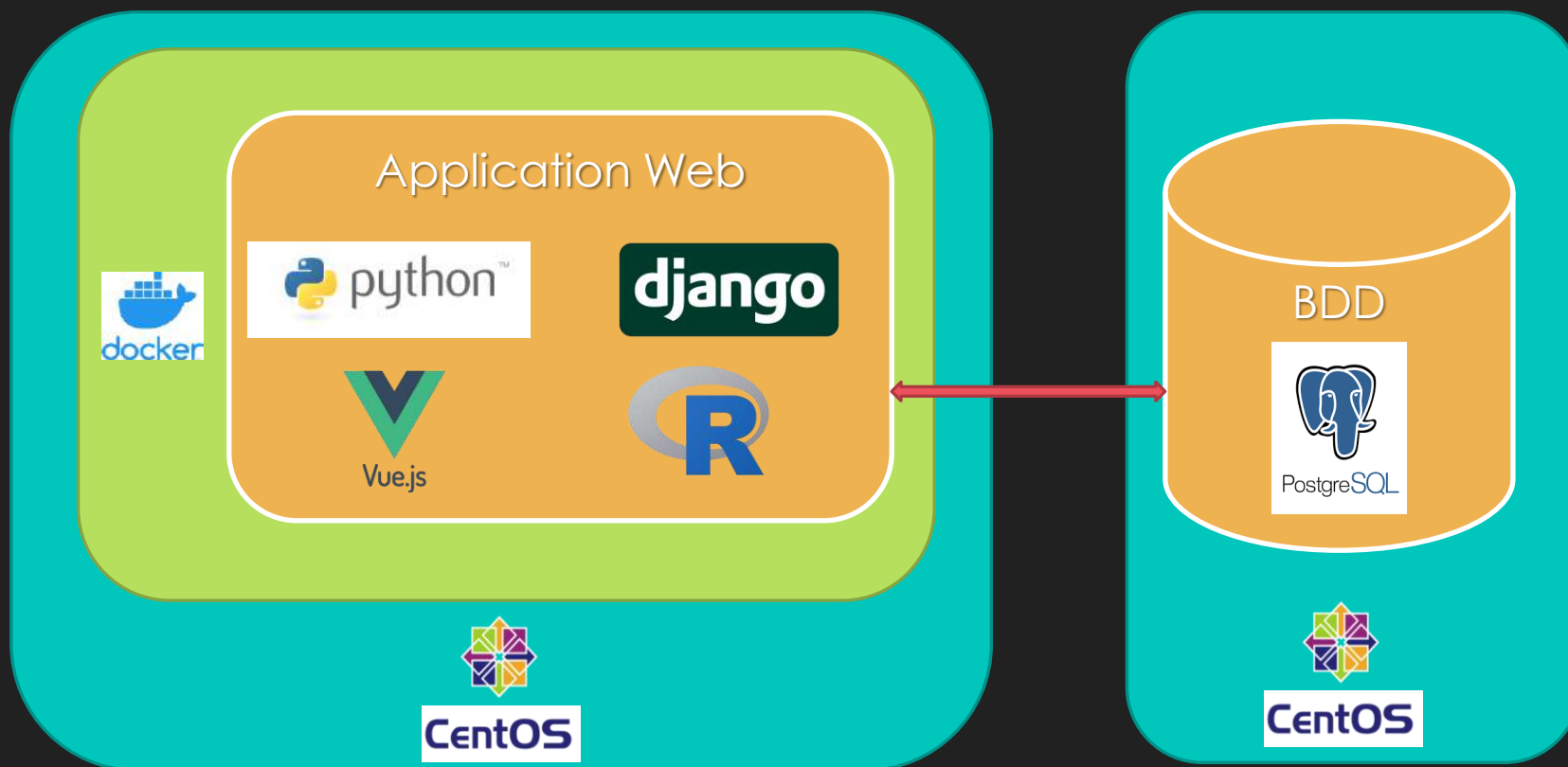
Déploiement - Architecture technique



Déploiement – *Embedded* : Poste Individuel



Déploiement – Infrastructure : ABiMS



Déploiement – HOWTO (honteusement simplifié)

MyGOD - Marine Biodiversity Data Observation > MyGOD Docker

MyGOD Docker Free

Project ID: 44088683

24 Commits 1 Branch 0 Tags 28 KIB Project Storage

Added windows specific folder sharing section.
Mark HOEBEKE authored 1 week ago

main mygod-docker / +

History Find file Edit Download Clone

README GNU General Public License v3.0 or later Add CHANGELOG Add CONTRIBUTING Enable Auto DevOps

Add Kubernetes cluster Set up CI/CD Add Wiki Configure Integrations

Name	Last commit	Last update
docker-entrypoint-initdb.d	Added execution flags to DB creation scripts (need...	7 months ago
.gitignore	Provide configurations for both an externally hoste...	7 months ago
LICENSE.txt	Added license file.	8 months ago
README.md	Added windows specific folder sharing section.	1 week ago
cleandb.sh	Added dedicated DB re-creation service. Complete...	7 months ago
docker-compose-db-embedded.yml	Defined specific network for mygod services.	5 months ago
docker-compose-db-external.yml	Defined specific network for mygod services.	5 months ago
mygod_template.env	Added optional env variables for DEBUG, ALLOWE...	5 months ago

1. Clone the GitLab repo
2. Select the appropriate compose configuration
3. Copy & edit the environment template
4. Run Docker compose



MyGOD

Manipulate your Genomic Observatory Data

The goal of MyGOD project is to provide research teams involved in the processing and analysis of data from genomic observations with the human-machine interfaces necessary to visualize, explore, analyze and interpret their data. This web platform will allow the visualization in time and space of species abundance data from genomic data associated with environmental parameters, notably those measured at several sites of the SOMLI national service (Service d'Observation en Milieu Littoral, a national network of 12 marine stations, labeled by INSU-CNRS) since 1996) and those measured in the MYGOD projects.

What's New ?

- Advanced 'spid' modules are available for most plots allowing multiple groupings for data representation
- Logos can be added to plots
- Plot data exports have been reorganized
- Sampling stations can now be grouped in user-editable clusters
- Custom physico-chemical parameters can now be defined per dataset in addition to the default set

MyGOD

Bilan Perspectives



MyGOD – Bilan

- MyGOD offre depuis juin 2023 :
 - Un outil Web ergonomique
 - La composition de tableaux de bord « avancés »
 - Le partage et la publication des tableaux de bord
 - Un format simple mais générique pour l'importation de données metabarcodes et physico-chimiques
 - *L'utilisation de données de campagnes*
 - *Le déploiement d'instances privées et/ou sur des postes de travail*
 - *L'importation de données au travers de l'interface Web*
 - *L'utilisation de données de biodiversité « morphologique »*



MyGOD – Perspectives

- **Déploiements potentiels chez des partenaires**
 - SeBiMER
 - MIO
- **Extensions des capacités d'importation de données**
 - Support du format RO-CRATE (EMO-BON)
 - Développement d'un module R de conversion à partir de PhyloSeq
- **Aide à la composition des fichiers de métadonnées**
 - Formulaire de saisie intégrés au back-office de MyGOD



MyGOD – Credits & Links

- Charlotte André
- Charlotte Berthelier
- Erwan Corre
- Patrick Durand
- Nicolas Henry
- Mark Hoebeke
- Magali Lescot
- Nolan Lezzoche
- Cyril Noël

- Instance publique
 - <https://mygod.sb-roscoff.fr>
- Dépôt code source :
 - <https://gitlab.com/mygod-biodiv/mygod-webapp>
- Dépôt configuration Docker :
 - <https://gitlab.com/mygod-biodiv/mygod-docker>
- Dépôt format de données & HOWTO :
 - <https://gitlab.com/mygod-biodiv/mygod-data-formats>

✉ contact.mygod@sb-roscoff.fr

