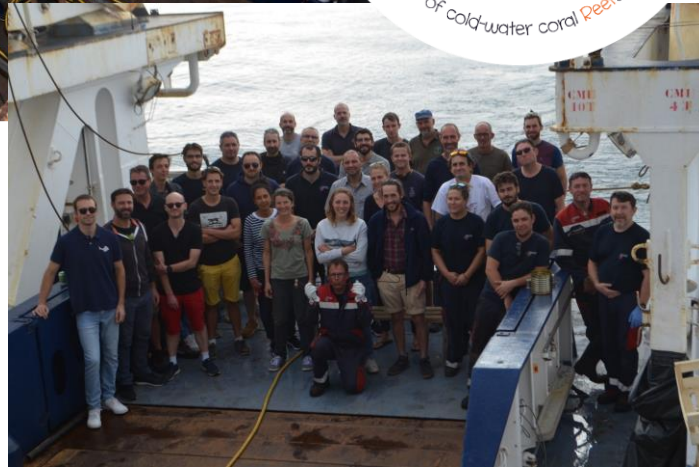


OPERATIONNAL CRUISE REPORT

ChEReef 2021



Chief scientists: Lénaïck Menot, Julie Tourolle, Ifremer

On board R.V. Thalassa

With HROV Ariane & AUV Idef^x

| | | | | |
|----------------|------------|------------------|------------|------------|
| Mobilisation : | 04/08/2021 | Demobilisation : | 05/09/2021 | Nb of days |
| Port of call : | Brest | Port of call : | Brest | 33 |



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1. Introduction and objectives

The ChEReef 2021 cruise is contributing to the European projects Marha and iAtlantic and the ANR project ARDECO. Its overall objective is to better understand the role of geomorphological, hydrodynamic, sedimentary and anthropic factors in the distribution and health of reef habitats in a canyon of the Bay of Biscay, by answering four main questions

1. What is the role of the heterogeneity of the geomorphological structures of a canyon in the distribution and diversity of benthic habitats?
2. How does a canyon influence local hydrodynamics and what are the consequences for the nature, distribution and dynamics of benthic habitats?
3. What are the nature, quantities and dynamics of sedimentary and trophic inputs in a canyon?
4. What are the main natural and anthropogenic drivers of the realized niche of reef-building coral species?

To answer these questions, the cruise aimed at producing a complete morpho-sedimentary map of the Lampaul canyon at metric resolution as well as 2D and 3D mosaics of targeted reef habitats. Mooring lines of particle traps, ADCPs and turbidimeters shall be deployed to characterise currents and particle fluxes along and across the canyon. In situ experiments shall be initiated to assess the growth rates of reef scleractinians. The MARLEY (Monitoring deep seA coRaL EcosYtem) autonomous observation station shall be deployed to monitor the dynamics of corals and their environment.

From an operational perspective, it was planned to carry out :

- Mapping of the Lampaul Canyon (Bay of Biscay) with the acquisition of a complete bathymetric coverage from the interfluvial to the bottom of the canyon using an AUV.
- Field validation of acoustic facies determined from acoustic imaging by USNEL box-coring.
- Acoustic mapping of three vertical cliffs at average depths of 900 m and 1600 m, using the HROV Ariane equipped with the SMF EM2040, followed by faunal characterisation of these cliffs.
- Exploration of the head and sides of the Lampaul canyon with the aim of describing and sampling the cold water coral reefs dominated by three species of colonial scleractinians: *Desmophylum pertusum* (formerly *Lophelia pertusa*), *Madrepora oculata* and *Solonoesmilium variabilis*.
- The creation of image mosaics and the acquisition of videos in order to assess the health of the coral reefs of the sites.
- Deployment of experimental devices to assess the growth rate of target reef coral species, as well as to characterise larval flows at specific sites.
- The deployment of the MARLEY station, an autonomous observation system for the benthic compartment.
- Deployment of three particle trap and ADCP mooring lines in order to characterise particle flows and currents in the canyon.
- Characterisation of the physico-chemical characteristics of the water column, and in particular of the carbonate system, through the implementation of a CTD/Rosette.

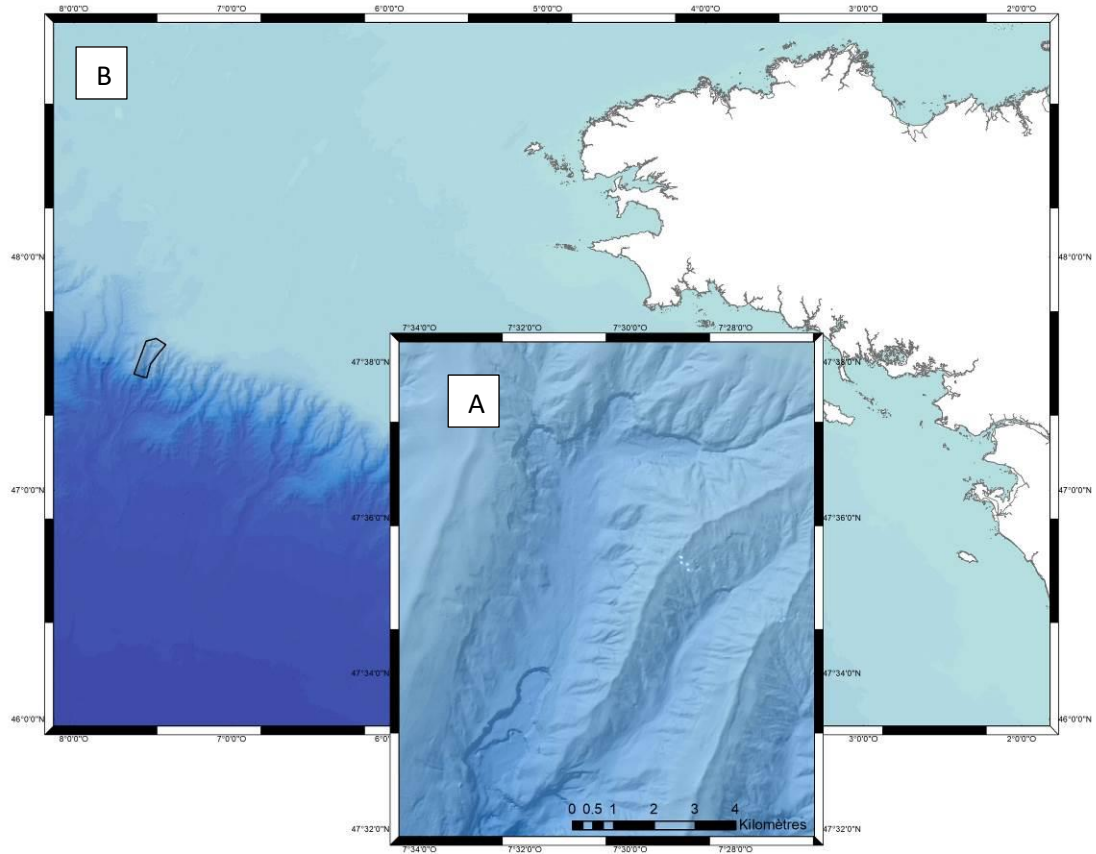
- An initial characterisation of the mesopelagic populations by carrying out EK80 profiles and pumping samples using a SALSA pump.
- A scientific dissemination component was also planned with the implementation of a telepresence platform to follow and annotate the HROV dives live via the SeaTube platform as well as live broadcasting of the HROV dives at the public aquarium Océanopolis in Brest.
- The cruise shall also contribute to Nicolas Floc'h's Initium Maris art project: Underwater photography during exploration dives of the Ariane HROV and deployment of a two-camera systems in upper 100 m of the water column.

2. Participant list

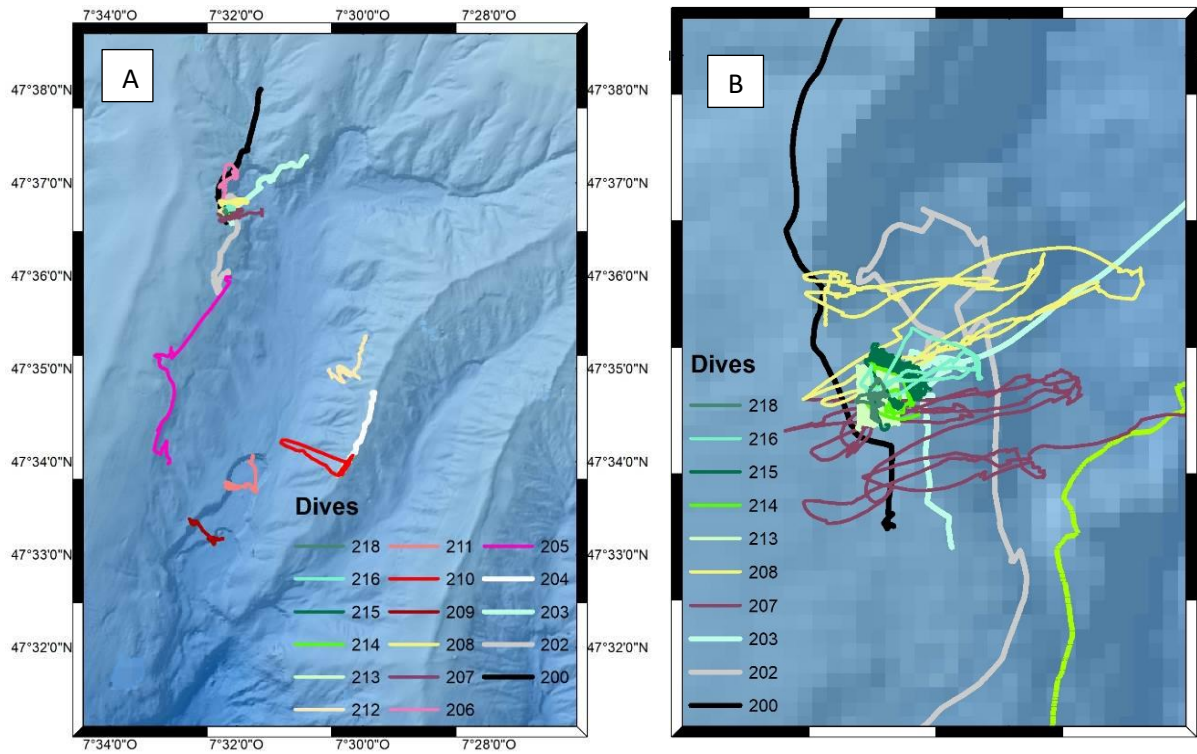
| Nom | Prénom | Affiliation | Country | Leg |
|----------------------|---------------|---|----------------|------------|
| Apprioual | Ronan | Ifremer, GEOCEAN | France | 2 |
| Autin | Timothée | Ifremer | France | 2 |
| Bajjouk | Touria | Ifremer | France | 2 |
| Borremans | Catherine | Ifremer, BEEP | France | 2 |
| Bocher | Alan | Ifremer | France | 2 |
| Brandily | Christophe | Ifremer, BEEP | France | 2 |
| Chemel | Mathilde | Sorbonne University, LECOB | France | 1, 2 |
| Ehrhold | Axel | Ifremer, GEOCEAN | France | 2 |
| Fabri | Marie-Claire | Ifremer | France | 1 |
| Ferrand | Paco | Ifremer, GEOCEAN | France | 1 |
| Ferrant | Anthony | Ifremer, GEOCEAN | France | 2 |
| Ferrera | Maxime | Ifremer | France | 2 |
| Fezzani | Ridha | Ifremer | France | 1 |
| Floc'h | Nicolas | Ecole europeenne superieure d art de Bretagne | France | 1 |
| Fuchs | Sandra | Ifremer, BEEP | France | 1 |
| Gaillot | Arnaud | Ifremer, GEOCEAN | France | 1 |
| Jacinto Silva | Ricardo | Ifremer, GEOCEAN | France | 2 |
| Karoui | Imen | Ifremer, BEEP | France | 1 |
| Lafontaine | Jean-Pierre | Ifremer | France | 2 |
| Lagadec | Jean-Romain | Ifremer | France | 2 |
| Laming | Sven | University of Aveiro | Portugal | 2 |
| Lartaud | Franck | Sorbonne University, LECOB | France | 1, 2 |
| Menot | Lénaïck | Ifremer, BEEP | France | 1, 2 |
| Michel | Loïc | Ifremer, BEEP | France | 2 |
| Moreau | Bertrand | Ifremer | France | 2 |
| Olu | Karine | Ifremer, BEEP | France | 1 |
| Pradillon | Florence | Ifremer, BEEP | France | 1 |

| | | | | |
|-----------------|--------|----------------------------|--------|------|
| Saliou | Damien | Ifremer | France | 2 |
| Tourolle | Julie | Ifremer, BEEP | France | 1, 2 |
| Zbinden | Magali | Sorbonne University, BOREA | France | 1 |

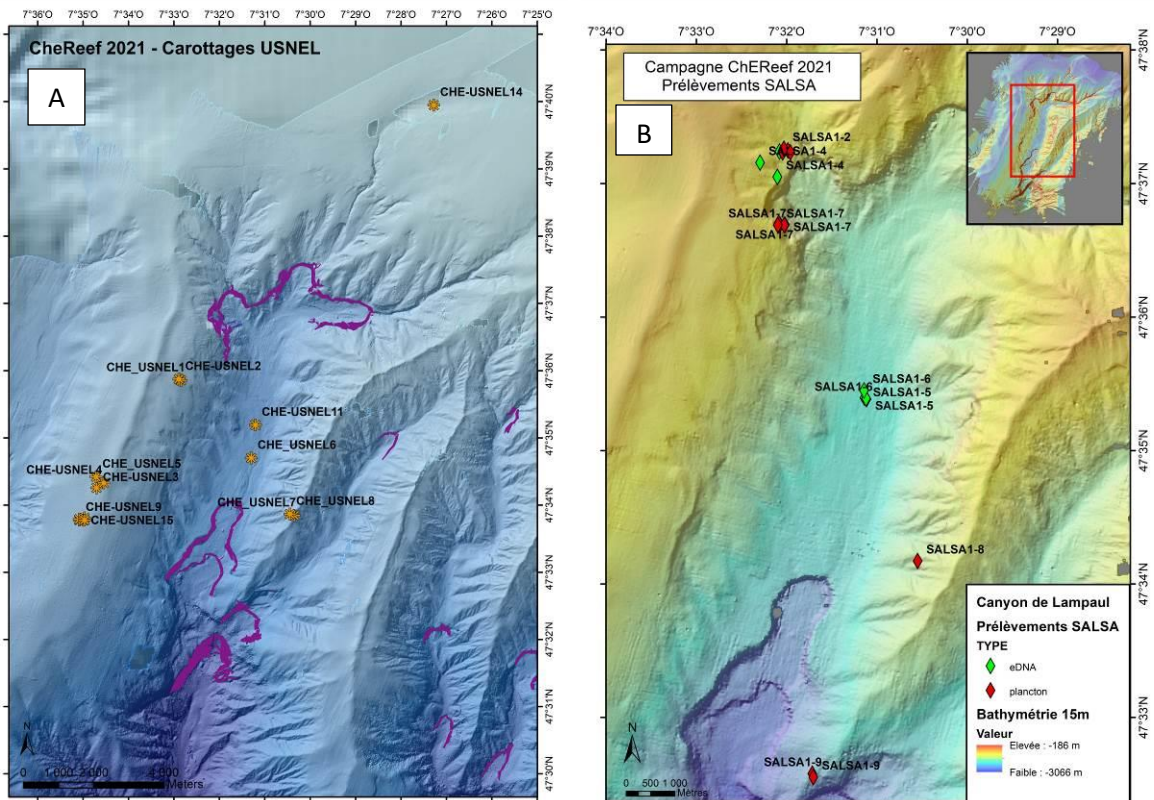
3. Location maps

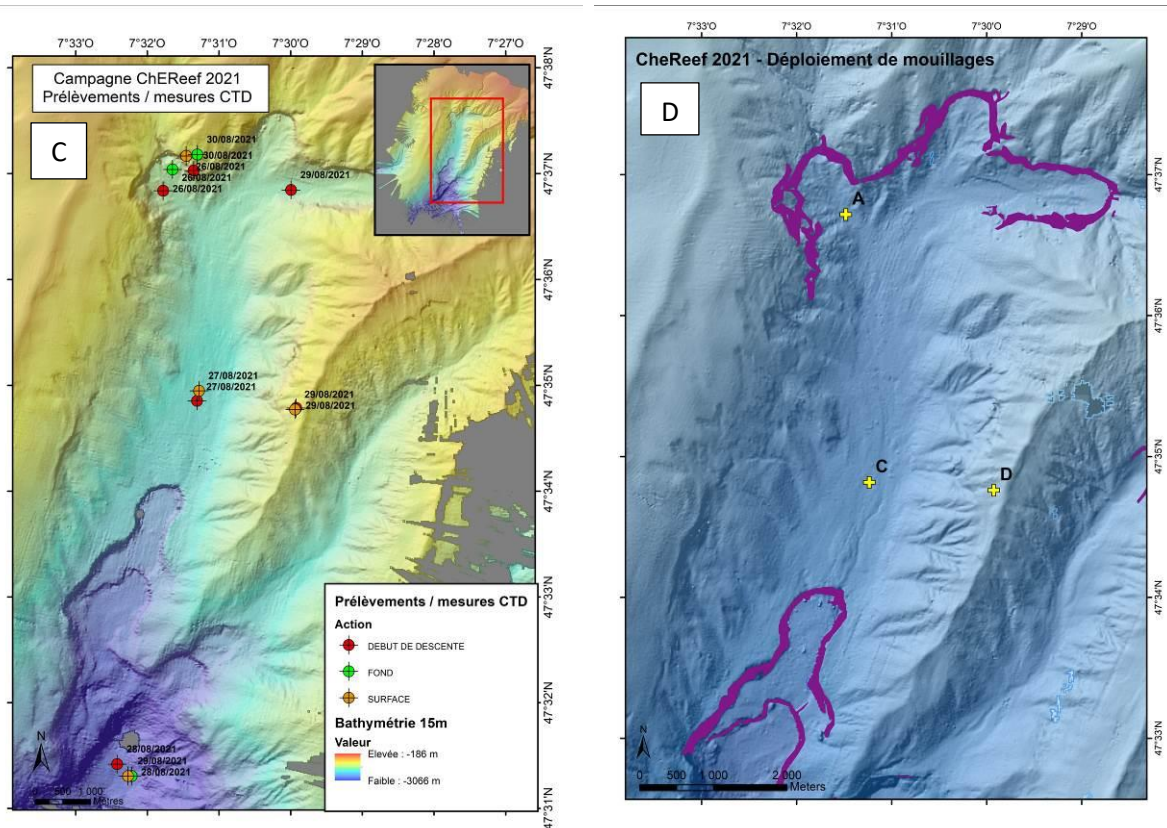


Map of the Lampaul canyon (A) in the northern Bay of Biscay (B)



Map of the HROV dives in the Lampaul canyon (A) and detail of the dives near the deployment site of the MARLEY observatory.





Map of ship-based samplings and moorings: A) Box-core sampling, B) SALSA deployments, C) CTD deployments, D) sediment trap moorings (A and D: Peergynt moorings, C: Anitra mooring).

4. Operation chronology

| Date | Time | Lat | Long | Operation |
|------------|----------|----------------|-----------------|--|
| 05/08/2021 | 14:37:39 | N 48 20.562 | W 004 27.878 | CHE-ARIANE1 - HROV ARIANE - MISE A EAU : |
| 05/08/2021 | 14:37:40 | N 48 20.562 | W 004 27.878 | CHE-ARIANE1 - HROV ARIANE - EN SURFACE : |
| 06/08/2021 | 11:05:04 | N 47 39.638 | W 007 29.992 | CHE-SMF1 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : profil 1 |
| 06/08/2021 | 11:20:36 | N 47 39.120 | W 007 27.191 | CHE-SMF1 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 06/08/2021 | 11:41:36 | N 47 38.211 | W 007 24.580 | CHE-SMF2 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : profil 2 |
| 06/08/2021 | 12:35:20 | N 47 39.638 | W 007 32.493 | CHE-SMF2 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 06/08/2021 | 12:45:46 | N 47 39.227 | W 007 33.229 | CHE-SMF3 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : Profil 3 |

| | | | | |
|------------|----------|----------------|-----------------|--|
| 06/08/2021 | 13:33:33 | N 47 37.670 | W 007 24.737 | CHE-SMF3 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : Fin de profil 3 |
| 06/08/2021 | 13:44:02 | N 47 37.143 | W 007 25.062 | CHE-SMF4 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 06/08/2021 | 14:37:54 | N 47 38.698 | W 007 33.622 | CHE-SMF4 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 06/08/2021 | 14:56:12 | N 47 37.774 | W 007 33.231 | CHE-SMF5 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 06/08/2021 | 15:32:53 | N 47 36.489 | W 007 26.285 | CHE-SMF5 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 06/08/2021 | 15:51:03 | N 47 35.708 | W 007 28.289 | CHE-SMF6 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 06/08/2021 | 16:28:55 | N 47 36.806 | W 007 34.525 | CHE-SMF6 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 06/08/2021 | 16:41:24 | N 47 35.716 | W 007 35.052 | CHE-SMF7 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 06/08/2021 | 17:07:44 | N 47 34.650 | W 007 29.414 | CHE-SMF7 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 06/08/2021 | 17:27:42 | N 47 33.391 | W 007 30.250 | CHE-SMF8 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 06/08/2021 | 18:00:04 | N 47 34.330 | W 007 35.581 | CHE-SMF8 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 06/08/2021 | 18:20:53 | N 47 32.557 | W 007 36.238 | CHE-SMF9 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 06/08/2021 | 18:47:27 | N 47 31.611 | W 007 31.070 | CHE-SMF9 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 06/08/2021 | 19:05:00 | N 47 31.251 | W 007 31.533 | CHE-SMF10 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 06/08/2021 | 20:11:20 | N 47 39.433 | W 007 28.306 | CHE-SMF10 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 06/08/2021 | 20:24:39 | N 47 38.922 | W 007 26.257 | CHE-SMF11 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 06/08/2021 | 20:47:23 | N 47 35.995 | W 007 27.420 | CHE-SMF11 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 06/08/2021 | 21:02:10 | N 47 36.740 | W 007 25.999 | CHE-SMF12 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |

| | | | | |
|------------|----------|----------------|-----------------|--|
| 06/08/2021 | 21:19:06 | N 47 38.728 | W 007 25.219 | CHE-SMF12 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 07/08/2021 | 07:11:53 | N 47 36.938 | W 007 30.242 | CHE-ARIANE-199-2 - HROV ARIANE - MISE A EAU : |
| 07/08/2021 | 11:09:05 | N 47 37.406 | W 007 31.561 | CHE-ARIANE-199-2 - HROV ARIANE - EN SURFACE : |
| 07/08/2021 | 11:10:00 | N 47 37.419 | W 007 31.551 | CHE-EK801 - SONDEURS MONOFAISCEAU EK80 - DEBUT PROFIL : Pour prelevement SALSA en tete de canyon |
| 07/08/2021 | 12:11:03 | N 47 37.707 | W 007 32.113 | CHE-ARIANE-199-2 - HROV ARIANE - A BORD : |
| 07/08/2021 | 13:05:10 | N 47 37.945 | W 007 32.843 | CHE-PI1 - PROFIL IMAGE - MISE A EAU : |
| 07/08/2021 | 13:26:25 | N 47 37.945 | W 007 32.926 | CHE-PI1 - PROFIL IMAGE - A BORD : |
| 07/08/2021 | 16:04:05 | N 47 37.258 | W 007 32.036 | CHE-SALSA-1-1 - SALSA1 - MISE A EAU : |
| 07/08/2021 | 16:36:00 | N 47 37.225 | W 007 32.041 | CHE-SALSA-1-1 - SALSA1 - DEBUT PRELEVEMENT 1 : |
| 07/08/2021 | 17:28:00 | N 47 37.229 | W 007 32.069 | CHE-SALSA-1-1 - SALSA1 - FIN PRELEVEMENT 1 : |
| 07/08/2021 | 17:32:00 | N 47 37.238 | W 007 32.079 | CHE-SALSA-1-1 - SALSA1 - DEBUT PRELEVEMENT 2 : |
| 07/08/2021 | 18:24:00 | N 47 37.185 | W 007 32.059 | CHE-SALSA-1-1 - SALSA1 - FIN PRELEVEMENT 2 : |
| 07/08/2021 | 18:46:36 | N 47 37.119 | W 007 32.097 | CHE-SALSA-1-1 - SALSA1 - A BORD : |
| 07/08/2021 | 19:26:05 | N 47 39.663 | W 007 32.110 | CHE-SMF13 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 07/08/2021 | 20:29:57 | N 47 31.874 | W 007 35.201 | CHE-SMF13 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 07/08/2021 | 20:44:56 | N 47 31.662 | W 007 33.886 | CHE-SMF14 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 07/08/2021 | 21:50:47 | N 47 39.731 | W 007 30.712 | CHE-SMF14 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 08/08/2021 | 08:48:24 | N 47 37.833 | W 007 24.757 | CHE-SMF15 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : 2040 + 304 |

| | | | | |
|------------|----------|----------------|-----------------|---|
| 08/08/2021 | 09:47:51 | N 47 39.383 | W 007 33.163 | CHE-SMF15 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 08/08/2021 | 09:58:03 | N 47 39.836 | W 007 32.879 | CHE-SMF16 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 08/08/2021 | 11:06:12 | N 47 38.580 | W 007 24.484 | CHE-SMF16 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : 2040 + 304 |
| 08/08/2021 | 11:07:43 | N 47 38.608 | W 007 24.670 | CHE-SMF17 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : 2040+304 |
| 08/08/2021 | 12:08:04 | N 47 39.985 | W 007 33.063 | CHE-SMF17 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : 2040+EM304 |
| 08/08/2021 | 12:11:10 | N 47 39.674 | W 007 32.841 | CHE-EK802 - SONDEURS MONOFAISCEAU EK80 - DEBUT PROFIL : transit vers point salsa et photo colonne d'eau |
| 08/08/2021 | 13:10:22 | N 47 37.225 | W 007 32.082 | CHE-EK802 - SONDEURS MONOFAISCEAU EK80 - FIN PROFIL : |
| 08/08/2021 | 13:26:38 | N 47 37.256 | W 007 32.041 | CHE-PI2 - PROFIL IMAGE - MISE A EAU : |
| 08/08/2021 | 13:43:51 | N 47 37.245 | W 007 32.006 | CHE-PI2 - PROFIL IMAGE - A BORD : |
| 08/08/2021 | 14:01:13 | N 47 37.231 | W 007 32.030 | CHE-SALSA2 - SALSA1 - MISE A EAU : |
| 08/08/2021 | 14:35:00 | N 47 37.235 | W 007 32.025 | CHE-SALSA2 - SALSA1 - DEBUT PRELEVEMENT 1 : |
| 08/08/2021 | 15:27:00 | N 47 37.254 | W 007 31.984 | CHE-SALSA2 - SALSA1 - FIN PRELEVEMENT 1 : |
| 08/08/2021 | 15:43:00 | N 47 37.253 | W 007 31.983 | CHE-SALSA2 - SALSA1 - DEBUT PRELEVEMENT 2 : |
| 08/08/2021 | 16:35:00 | N 47 37.242 | W 007 32.055 | CHE-SALSA2 - SALSA1 - FIN PRELEVEMENT 2 : |
| 08/08/2021 | 16:47:00 | N 47 37.247 | W 007 32.022 | CHE-SALSA2 - SALSA1 - DEBUT PRELEVEMENT 3 : |
| 08/08/2021 | 17:39:00 | N 47 37.233 | W 007 32.005 | CHE-SALSA2 - SALSA1 - FIN PRELEVEMENT 3 : |
| 08/08/2021 | 17:51:00 | N 47 37.227 | W 007 31.953 | CHE-SALSA2 - SALSA1 - DEBUT PRELEVEMENT 4 : |
| 08/08/2021 | 18:43:00 | N 47 37.176 | W 007 32.006 | CHE-SALSA2 - SALSA1 - FIN PRELEVEMENT 4 : |

| | | | | |
|------------|----------|----------------|-----------------|---|
| 08/08/2021 | 18:51:27 | N 47 37.128 | W 007 32.003 | CHE-SALSA2 - SALSA1 - A BORD : |
| 08/08/2021 | 19:10:22 | N 47 36.003 | W 007 33.119 | CHE-EK802 - SONDEURS MONOFAISCEAU EK80 - FIN PROFIL : |
| 08/08/2021 | 20:04:12 | N 47 34.089 | W 007 35.453 | CHE-IDEFX2 - AUV IDEFX - MISE A EAU : Falaise 2 |
| 08/08/2021 | 21:35:03 | N 47 34.018 | W 007 35.966 | CHE-IDEFX2 - AUV IDEFX - EN SURFACE : |
| 08/08/2021 | 21:35:25 | N 47 34.020 | W 007 35.973 | CHE-IDEFX2 - AUV IDEFX - A BORD : Plongee avortee |
| 09/08/2021 | 07:17:02 | N 47 37.919 | W 007 30.526 | CHE-ARIANE-200-3 - HROV ARIANE - MISE A EAU : |
| 09/08/2021 | 13:04:01 | N 47 36.324 | W 007 32.456 | CHE-ARIANE-200-3 - HROV ARIANE - EN SURFACE : |
| 09/08/2021 | 13:04:03 | N 47 36.323 | W 007 32.457 | CHE-ARIANE-200-3 - HROV ARIANE - A BORD : |
| 09/08/2021 | 14:25:05 | N 47 40.197 | W 007 32.696 | CHE-SMF18 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : EM2040 + EM304 + ME70 |
| 09/08/2021 | 15:14:02 | N 47 38.678 | W 007 24.251 | CHE-SMF18 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 09/08/2021 | 15:22:23 | N 47 38.807 | W 007 24.355 | CHE-SMF19 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 09/08/2021 | 16:20:18 | N 47 40.467 | W 007 33.230 | CHE-SMF19 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 09/08/2021 | 16:25:10 | N 47 40.430 | W 007 32.544 | CHE-SMF20 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 09/08/2021 | 17:11:33 | N 47 38.893 | W 007 24.156 | CHE-SMF20 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 09/08/2021 | 17:18:14 | N 47 39.074 | W 007 24.263 | CHE-SMF21 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 09/08/2021 | 18:10:50 | N 47 40.581 | W 007 32.664 | CHE-SMF21 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 09/08/2021 | 18:17:41 | N 47 40.706 | W 007 32.411 | CHE-SMF22 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 09/08/2021 | 18:20:34 | N 47 40.605 | W 007 31.874 | CHE-SMF22 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |

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| 09/08/2021 | 18:23:01 | N 47 40.400 | W 007 31.773 | CHE-SMF23 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 09/08/2021 | 18:42:08 | N 47 38.339 | W 007 32.852 | CHE-SMF23 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 09/08/2021 | 19:08:00 | N 47 38.332 | W 007 33.495 | CHE-IDEFX3 - AUV IDEFX - MISE A EAU : |
| 10/08/2021 | 05:31:13 | N 47 37.914 | W 007 26.531 | CHE-IDEFX3 - AUV IDEFX - EN SURFACE : |
| 10/08/2021 | 05:31:14 | N 47 37.914 | W 007 26.532 | CHE-IDEFX3 - AUV IDEFX - A BORD : |
| 10/08/2021 | 07:43:52 | N 47 36.874 | W 007 29.964 | CHE-ARIANE-201-4 - HROV ARIANE - MISE A EAU : |
| 10/08/2021 | 11:55:33 | N 47 35.049 | W 007 33.078 | CHE-ARIANE-201-4 - HROV ARIANE - EN SURFACE : |
| 10/08/2021 | 11:55:35 | N 47 35.049 | W 007 33.080 | CHE-ARIANE-201-4 - HROV ARIANE - A BORD : |
| 10/08/2021 | 12:21:14 | N 47 35.834 | W 007 33.219 | CHE-SMF24 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 10/08/2021 | 13:07:58 | N 47 40.781 | W 007 33.071 | CHE-SMF24 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : EM304 seul |
| 10/08/2021 | 13:11:26 | N 47 40.776 | W 007 33.079 | CHE-PI1 - PROFIL IMAGE - MISE A EAU : |
| 10/08/2021 | 13:31:50 | N 47 40.819 | W 007 32.990 | CHE-PI1 - PROFIL IMAGE - A BORD : |
| 10/08/2021 | 16:21:58 | N 47 41.642 | W 007 32.111 | CHE-SMF25 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : EM304+2040+ME70 |
| 10/08/2021 | 17:06:58 | N 47 40.080 | W 007 23.739 | CHE-SMF25 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 10/08/2021 | 17:14:05 | N 47 39.971 | W 007 23.967 | CHE-SMF26 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 10/08/2021 | 18:02:06 | N 47 41.497 | W 007 32.290 | CHE-SMF26 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 10/08/2021 | 19:21:04 | N 47 37.254 | W 007 27.933 | CHE-IDEFX4 - AUV IDEFX - MISE A EAU : |
| 10/08/2021 | 21:36:54 | N 47 37.384 | W 007 28.736 | CHE-IDEFX4 - AUV IDEFX - EN SURFACE : |

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| 11/08/2021 | 05:25:38 | N 47 37.638 | W 007 27.898 | CHE-IDEFX4 - AUV IDEFX - A BORD : |
| 11/08/2021 | 07:50:17 | N 47 36.600 | W 007 31.606 | CHE-ARIANE5 - HROV ARIANE - MISE A EAU : |
| 11/08/2021 | 14:24:17 | N 47 36.536 | W 007 32.910 | CHE-ARIANE-202-5 - HROV ARIANE - A BORD : |
| 11/08/2021 | 15:15:00 | N 47 37.441 | W 007 27.819 | CHE-IDEFX5 - AUV IDEFX - MISE A EAU : |
| 12/08/2021 | 05:25:05 | N 47 39.149 | W 007 34.168 | CHE-IDEFX5 - AUV IDEFX - A BORD : |
| 12/08/2021 | 07:10:58 | N 47 37.225 | W 007 31.458 | CHE-ARIANE6 - HROV ARIANE - MISE A EAU : |
| 12/08/2021 | 13:25:18 | N 47 37.041 | W 007 31.658 | CHE-ARIANE6 - HROV ARIANE - EN SURFACE : |
| 12/08/2021 | 13:49:51 | N 47 36.642 | W 007 32.484 | CHE-ARIANE6 - HROV ARIANE - A BORD : |
| 12/08/2021 | 14:29:26 | N 47 36.640 | W 007 32.175 | CHE-EK803 - SONDEURS MONOFAISCEAU EK80 - DEBUT PROFIL : acquisition EK80 autour du point Salsa |
| 12/08/2021 | 15:14:25 | N 47 36.724 | W 007 32.150 | CHE-SALSA3 - SALSA1 - MISE A EAU : |
| 12/08/2021 | 15:50:00 | N 47 36.734 | W 007 32.043 | CHE-SALSA3 - SALSA1 - DEBUT PRELEVEMENT 1 : |
| 12/08/2021 | 18:10:00 | N 47 36.755 | W 007 31.977 | CHE-SALSA3 - SALSA1 - FIN PRELEVEMENT 1 : |
| 12/08/2021 | 18:33:27 | N 47 36.750 | W 007 31.978 | CHE-SALSA3 - SALSA1 - A BORD : |
| 12/08/2021 | 18:56:32 | N 47 37.737 | W 007 33.502 | CHE-EK803 - SONDEURS MONOFAISCEAU EK80 - FIN PROFIL : |
| 12/08/2021 | 19:13:55 | N 47 37.738 | W 007 33.739 | CHE-ARIANE6 - HROV ARIANE - MISE A EAU : |
| 13/08/2021 | 05:00:15 | N 47 37.142 | W 007 31.972 | CHE-ARIANE6 - HROV ARIANE - EN SURFACE : |
| 13/08/2021 | 05:27:25 | N 47 37.462 | W 007 32.271 | CHE-ARIANE6 - HROV ARIANE - A BORD |
| 13/08/2021 | 07:39:15 | N 47 33.596 | W 007 29.768 | CHE-ARIANE-204-7 - HROV ARIANE - MISE A EAU : |

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| 13/08/2021 | 12:00:36 | N 47 34.503 | W 007 29.872 | CHE-ARIANE-204-7 - HROV ARIANE - EN SURFACE : |
| 13/08/2021 | 12:25:41 | N 47 34.398 | W 007 30.358 | CHE-ARIANE-204-7 - HROV ARIANE - A BORD |
| 13/08/2021 | 12:49:24 | N 47 34.989 | W 007 30.779 | CHE-EK804 - SONDEURS MONOFAISCEAU EK80 - DEBUT PROFIL : plus ADCP |
| 13/08/2021 | 13:49:00 | N 47 37.211 | W 007 32.090 | CHE-SALSA4 - SALSA1 - MISE A EAU : |
| 13/08/2021 | 14:05:00 | N 47 37.162 | W 007 32.377 | CHE-SALSA4 - SALSA1 - DEBUT PRELEVEMENT 1 : |
| 13/08/2021 | 14:57:00 | N 47 37.038 | W 007 32.106 | CHE-SALSA4 - SALSA1 - FIN PRELEVEMENT 1 : |
| 13/08/2021 | 15:00:00 | N 47 37.045 | W 007 32.112 | CHE-SALSA4 - SALSA1 - DEBUT PRELEVEMENT 2 : |
| 13/08/2021 | 15:52:00 | N 47 37.153 | W 007 31.949 | CHE-SALSA4 - SALSA1 - FIN PRELEVEMENT 2 : |
| 13/08/2021 | 16:14:09 | N 47 37.306 | W 007 31.841 | CHE-SALSA4 - SALSA1 - A BORD : |
| 13/08/2021 | 16:24:25 | N 47 37.374 | W 007 31.797 | CHE-EK804 - SONDEURS MONOFAISCEAU EK80 - FIN PROFIL : |
| 13/08/2021 | 18:12:22 | N 47 37.233 | W 007 32.866 | CHE-IDEFX7 - AUV IDEFX - MISE A EAU : |
| 14/08/2021 | 05:20:25 | N 47 36.164 | W 007 31.974 | CHE-IDEFX7 - AUV IDEFX - A BORD : |
| 14/08/2021 | 07:13:00 | N 47 34.744 | W 007 32.277 | CHE-ARIANE8 - HROV ARIANE - MISE A EAU : |
| 14/08/2021 | 13:50:45 | N 47 35.957 | W 007 32.349 | CHE-ARIANE8 - HROV ARIANE - EN SURFACE : |
| 14/08/2021 | 14:06:20 | N 47 35.584 | W 007 32.616 | CHE-ARIANE8 - HROV ARIANE - A BORD : |
| 14/08/2021 | 14:34:38 | N 47 35.724 | W 007 33.808 | CHE-SMF27 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL |
| 14/08/2021 | 15:02:27 | N 47 36.918 | W 007 38.484 | CHE-SMF27 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 14/08/2021 | 15:10:52 | N 47 37.532 | W 007 38.276 | CHE-SMF28 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL |

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| 14/08/2021 | 18:51:23 | N 47 39.609 | W 007 33.011 | CHE-SMF28 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 14/08/2021 | 18:51:43 | N 47 39.602 | W 007 32.962 | CHE-SMF29 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 14/08/2021 | 19:49:18 | N 47 38.092 | W 007 24.612 | CHE-SMF29 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 14/08/2021 | 20:06:54 | N 47 39.204 | W 007 24.079 | CHE-SMF30 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 14/08/2021 | 21:07:13 | N 47 40.765 | W 007 32.787 | CHE-SMF30 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 14/08/2021 | 21:11:58 | N 47 40.921 | W 007 32.786 | CHE-SMF31 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 14/08/2021 | 22:14:09 | N 47 39.373 | W 007 23.640 | CHE-SMF31 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 14/08/2021 | 22:16:54 | N 47 39.436 | W 007 23.596 | CHE-SMF32 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 14/08/2021 | 22:52:51 | N 47 40.254 | W 007 28.237 | CHE-SMF32 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 14/08/2021 | 23:19:52 | N 47 37.382 | W 007 29.869 | CHE-EK805 - SONDEURS MONOFAISCEAU EK80 - DEBUT PROFIL : +ADCP |
| 14/08/2021 | 23:42:42 | N 47 35.402 | W 007 30.919 | CHE-EK805 - SONDEURS MONOFAISCEAU EK80 - FIN PROFIL : |
| 15/08/2021 | 00:01:15 | N 47 35.394 | W 007 30.994 | CHE-SALSA5 - SALSA1 - MISE A EAU : |
| 15/08/2021 | 00:25:00 | N 47 35.393 | W 007 31.100 | CHE-SALSA5 - SALSA1 - DEBUT PRELEVEMENT 1 : |
| 15/08/2021 | 01:17:15 | N 47 35.397 | W 007 31.135 | CHE-SALSA5 - SALSA1 - FIN PRELEVEMENT 1 : |
| 15/08/2021 | 01:20:00 | N 47 35.403 | W 007 31.115 | CHE-SALSA5 - SALSA1 - DEBUT PRELEVEMENT 2 : |
| 15/08/2021 | 02:12:00 | N 47 35.401 | W 007 31.113 | CHE-SALSA5 - SALSA1 - FIN PRELEVEMENT 2 : |
| 15/08/2021 | 02:35:00 | N 47 35.380 | W 007 31.117 | CHE-SALSA5 - SALSA1 - A BORD : |
| 15/08/2021 | 02:56:48 | N 47 35.380 | W 007 31.123 | CHE-SALSA6 - SALSA1 - MISE A EAU : |

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| 15/08/2021 | 03:25:00 | N 47 35.394 | W 007 31.109 | CHE-SALSA6 - SALSA1 - DEBUT PRELEVEMENT 1 : |
| 15/08/2021 | 04:17:00 | N 47 35.438 | W 007 31.136 | CHE-SALSA6 - SALSA1 - FIN PRELEVEMENT 1 : |
| 15/08/2021 | 04:20:00 | N 47 35.454 | W 007 31.120 | CHE-SALSA6 - SALSA1 - DEBUT PRELEVEMENT 2 : |
| 15/08/2021 | 05:12:00 | N 47 35.308 | W 007 31.125 | CHE-SALSA6 - SALSA1 - FIN PRELEVEMENT 2 : |
| 15/08/2021 | 05:25:18 | N 47 35.271 | W 007 31.228 | CHE-SALSA6 - SALSA1 - A BORD : |
| 15/08/2021 | 07:46:17 | N 47 41.318 | W 007 32.307 | CHE-SMF33 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL |
| 15/08/2021 | 08:43:58 | N 47 39.805 | W 007 23.887 | CHE-SMF33 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 15/08/2021 | 08:51:42 | N 47 39.650 | W 007 24.015 | CHE-SMF34 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 15/08/2021 | 10:26:05 | N 47 41.164 | W 007 32.436 | CHE-SMF34 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 15/08/2021 | 10:31:02 | N 47 41.005 | W 007 32.445 | CHE-SMF35 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 15/08/2021 | 10:55:32 | N 47 40.227 | W 007 28.113 | CHE-SMF35 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 15/08/2021 | 11:07:55 | N 47 39.206 | W 007 27.537 | CHE-SMF36 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 15/08/2021 | 12:28:13 | N 47 31.051 | W 007 30.783 | CHE-SMF36 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 15/08/2021 | 13:00:43 | N 47 31.529 | W 007 32.720 | CHE-SMF37 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 15/08/2021 | 14:42:44 | N 47 39.854 | W 007 29.724 | CHE-SMF37 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 15/08/2021 | 15:05:06 | N 47 39.431 | W 007 31.517 | CHE-SMF38 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 15/08/2021 | 15:50:48 | N 47 35.184 | W 007 33.172 | CHE-SMF38 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 15/08/2021 | 16:21:55 | N 47 36.647 | W 007 32.103 | CHE-SALSA7 - SALSA1 - MISE A EAU : |

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| 15/08/2021 | 16:49:00 | N 47 36.689 | W 007 32.073 | CHE-SALSA7 - SALSA1 - DEBUT PRELEVEMENT 1 : |
| 15/08/2021 | 20:09:09 | N 47 36.711 | W 007 32.035 | CHE-SALSA7 - SALSA1 - FIN PRELEVEMENT 1 : |
| 15/08/2021 | 20:27:12 | N 47 36.670 | W 007 32.028 | CHE-SALSA7 - SALSA1 - DEBUT PRELEVEMENT 2 : |
| 15/08/2021 | 23:47:00 | N 47 36.651 | W 007 32.034 | CHE-SALSA7 - SALSA1 - FIN PRELEVEMENT 2 : |
| 16/08/2021 | 00:00:13 | N 47 36.693 | W 007 32.040 | CHE-SALSA7 - SALSA1 - DEBUT PRELEVEMENT 3 : |
| 16/08/2021 | 03:20:00 | N 47 36.688 | W 007 32.115 | CHE-SALSA7 - SALSA1 - FIN PRELEVEMENT 3 : |
| 16/08/2021 | 03:33:05 | N 47 36.682 | W 007 32.106 | CHE-SALSA7 - SALSA1 - DEBUT PRELEVEMENT 4 : |
| 16/08/2021 | 04:34:00 | N 47 36.686 | W 007 32.083 | CHE-SALSA7 - SALSA1 - FIN PRELEVEMENT 4 : |
| 16/08/2021 | 04:42:21 | N 47 36.683 | W 007 32.124 | CHE-SALSA7 - SALSA1 - A BORD : |
| 16/08/2021 | 07:55:53 | N 47 36.280 | W 007 31.230 | CHE-ARIANE9 - HROV ARIANE - MISE A EAU : |
| 16/08/2021 | 13:47:40 | N 47 37.206 | W 007 32.322 | CHE-ARIANE9 - HROV ARIANE - EN SURFACE : |
| 16/08/2021 | 14:00:12 | N 47 37.270 | W 007 32.447 | CHE-ARIANE9 - HROV ARIANE - A BORD : |
| 16/08/2021 | 16:10:44 | N 47 34.555 | W 007 32.495 | CHE-IDEFX8 - AUV IDEFX - MISE A EAU : |
| 17/08/2021 | 05:18:45 | N 47 33.469 | W 007 32.567 | CHE-IDEFX8 - AUV IDEFX - A BORD : |
| 17/08/2021 | 06:08:05 | N 47 35.828 | W 007 33.054 | CHE-SMF39 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 17/08/2021 | 06:49:05 | N 47 31.743 | W 007 34.548 | CHE-SMF39 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |
| 17/08/2021 | 07:08:57 | N 47 31.350 | W 007 32.026 | CHE-SMF40 - SONDEURS MULTIFAISCEAUX - DEBUT PROFIL : |
| 17/08/2021 | 08:30:22 | N 47 39.504 | W 007 28.808 | CHE-SMF40 - SONDEURS MULTIFAISCEAUX - FIN PROFIL : |

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| 17/08/2021 | 12:11:43 | N 47 34.155 | W 007 30.541 | CHE-SALSA8 - SALSA1 - MISE A EAU : |
| 17/08/2021 | 12:44:04 | N 47 34.178 | W 007 30.541 | CHE-SALSA8 - SALSA1 - DEBUT PRELEVEMENT 1 : |
| 17/08/2021 | 14:58:00 | N 47 34.180 | W 007 30.556 | CHE-SALSA8 - SALSA1 - FIN PRELEVEMENT 1 : |
| 17/08/2021 | 15:33:11 | N 47 34.182 | W 007 30.321 | CHE-SALSA8 - SALSA1 - A BORD : |
| 17/08/2021 | 16:11:35 | N 47 36.619 | W 007 32.402 | CHE-IDEFX9 - AUV IDEFX - MISE A EAU : |
| 18/08/2021 | 05:22:10 | N 47 35.276 | W 007 30.515 | CHE-IDEFX10 - AUV IDEFX - A BORD : |
| 18/08/2021 | 07:07:03 | N 47 36.424 | W 007 31.078 | CHE-ARIANE-207-10 - HROV ARIANE - MISE A EAU : |
| 18/08/2021 | 15:10:31 | N 47 36.863 | W 007 31.943 | CHE-ARIANE-207-10 - HROV ARIANE - EN SURFACE : |
| 18/08/2021 | 15:30:32 | N 47 37.208 | W 007 31.952 | CHE-ARIANE-207-10 - HROV ARIANE - A BORD : |
| 18/08/2021 | 15:34:32 | N 47 37.246 | W 007 31.986 | CHE-PI4 - PROFIL IMAGE - MISE A EAU : |
| 18/08/2021 | 16:36:55 | N 47 34.463 | W 007 31.375 | CHE-IDEFX9 - AUV IDEFX - MISE A EAU : |
| 19/08/2021 | 03:26:06 | N 47 34.377 | W 007 33.159 | CHE-IDEFX9 - AUV IDEFX - EN SURFACE : |
| 19/08/2021 | 05:40:53 | N 47 34.468 | W 007 32.750 | CHE-IDEFX9 - AUV IDEFX - A BORD : |
| 19/08/2021 | 07:07:04 | N 47 36.490 | W 007 31.734 | CHE-ARIANE11 - HROV ARIANE - MISE A EAU : |
| 19/08/2021 | 14:40:15 | N 47 36.691 | W 007 32.477 | CHE-ARIANE11 - HROV ARIANE - EN SURFACE : |
| 19/08/2021 | 15:00:50 | N 47 36.488 | W 007 32.919 | CHE-ARIANE11 - HROV ARIANE - A BORD : |
| 19/08/2021 | 15:14:49 | N 47 36.383 | W 007 33.158 | CHE-PI5 - PROFIL IMAGE - MISE A EAU : |
| 19/08/2021 | 15:27:03 | N 47 36.442 | W 007 33.111 | CHE-PI5 - PROFIL IMAGE - A BORD : |

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| 19/08/2021 | 16:30:35 | N 47 34.839 | W 007 30.857 | CHE-IDEFX10 - AUV IDEFX - MISE A EAU : |
| 20/08/2021 | 04:40:38 | N 47 34.707 | W 007 30.732 | CHE-IDEFX10 - AUV IDEFX - EN SURFACE : |
| 20/08/2021 | 05:29:54 | N 47 34.552 | W 007 31.133 | CHE-IDEFX10 - AUV IDEFX - A BORD : |
| 20/08/2021 | 07:14:01 | N 47 34.084 | W 007 32.249 | CHE-ARIANE12 - HROV ARIANE - MISE A EAU : |
| 20/08/2021 | 14:28:28 | N 47 32.639 | W 007 31.850 | CHE-ARIANE-209-12 - HROV ARIANE - A BORD : |
| 20/08/2021 | 14:36:33 | N 47 32.548 | W 007 31.742 | CHE-ARIANE12 - HROV ARIANE - A BORD : |
| 20/08/2021 | 14:48:36 | N 47 32.586 | W 007 31.726 | CHE-SALSA9 - SALSA1 - MISE A EAU : |
| 20/08/2021 | 14:50:09 | N 47 32.578 | W 007 31.717 | CHE-SALSA9 - SALSA1 - DEBUT PRELEVEMENT 1 : |
| 20/08/2021 | 15:17:06 | N 47 32.555 | W 007 31.710 | CHE-SALSA9 - SALSA1 - FIN PRELEVEMENT 1 : |
| 20/08/2021 | 15:20:02 | N 47 32.552 | W 007 31.710 | CHE-SALSA9 - SALSA1 - DEBUT PRELEVEMENT 2 : |
| 20/08/2021 | 15:47:17 | N 47 32.554 | W 007 31.719 | CHE-SALSA9 - SALSA1 - FIN PRELEVEMENT 2 : |
| 20/08/2021 | 15:52:40 | N 47 32.553 | W 007 31.722 | CHE-SALSA9 - SALSA1 - A BORD : |
| 20/08/2021 | 16:35:58 | N 47 35.667 | W 007 30.708 | CHE-IDEFX11 - AUV IDEFX - MISE A EAU : |
| 21/08/2021 | 05:22:29 | N 47 35.484 | W 007 27.792 | CHE-IDEFX11 - AUV IDEFX - A BORD : |
| 21/08/2021 | 06:45:24 | N 47 33.568 | W 007 31.087 | CHE-ARIANE13 - HROV ARIANE - MISE A EAU : |
| 21/08/2021 | 15:30:18 | N 47 34.291 | W 007 30.825 | CHE-ARIANE13 - HROV ARIANE - A BORD : |
| 21/08/2021 | 16:05:07 | N 47 35.581 | W 007 33.616 | CHE-PI6 - PROFIL IMAGE - MISE A EAU : |
| 21/08/2021 | 16:23:35 | N 47 35.665 | W 007 33.393 | CHE-PI6 - PROFIL IMAGE - A BORD : |

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| 21/08/2021 | 16:35:35 | N 47 35.594 | W 007 33.622 | CHE-IDEFX12 - AUV IDEFX - MISE A EAU : |
| 22/08/2021 | 02:43:49 | N 47 35.978 | W 007 31.692 | CHE-IDEFX12 - AUV IDEFX - EN SURFACE : |
| 22/08/2021 | 05:17:15 | N 47 35.650 | W 007 31.800 | CHE-IDEFX12 - AUV IDEFX - A BORD : |
| 22/08/2021 | 07:05:44 | N 47 33.391 | W 007 31.326 | CHE-ARIANE14 - HROV ARIANE - MISE A EAU : |
| 22/08/2021 | 15:32:20 | N 47 34.236 | W 007 32.691 | CHE-ARIANE14 - HROV ARIANE - A BORD : |
| 22/08/2021 | 17:10:00 | N 47 35.894 | W 007 32.326 | CHE-IDEFX13 - AUV IDEFX - MISE A EAU : |
| 22/08/2021 | 19:07:07 | N 47 35.358 | W 007 32.055 | CHE-IDEFX13 - AUV IDEFX - EN SURFACE : |
| 22/08/2021 | 19:26:51 | N 47 35.489 | W 007 32.239 | CHE-IDEFX13 - AUV IDEFX - A BORD : |
| 22/08/2021 | 19:48:18 | N 47 35.760 | W 007 32.399 | CHE-IDEFX13 - AUV IDEFX - MISE A EAU |
| 23/08/2021 | 05:12:15 | N 47 32.837 | W 007 32.432 | CHE-IDEFX13 - AUV IDEFX - EN SURFACE : |
| 23/08/2021 | 05:39:16 | N 47 33.022 | W 007 32.384 | CHE-IDEFX13 - AUV IDEFX - A BORD : |
| 23/08/2021 | 07:15:12 | N 47 34.627 | W 007 30.690 | CHE-ARIANE15 - HROV ARIANE - MISE A EAU : |
| 23/08/2021 | 14:22:30 | N 47 35.866 | W 007 29.576 | CHE-ARIANE15 - HROV ARIANE - EN SURFACE : |
| 23/08/2021 | 14:40:32 | N 47 36.249 | W 007 29.234 | CHE-ARIANE15 - HROV ARIANE - A BORD : |
| 26/08/2021 | 18:15:45 | N 47 36.840 | W 007 31.778 | CHE-BATHY1 - BATHYSONDE - DEBUT DE DESCENTE : |
| 26/08/2021 | 18:58:05 | N 47 37.039 | W 007 31.649 | CHE-BATHY1 - BATHYSONDE - FOND : |
| 26/08/2021 | 19:53:49 | N 47 37.167 | W 007 31.456 | CHE-BATHY1 - BATHYSONDE - SURFACE : |
| 27/08/2021 | 06:53:51 | N 47 36.580 | W 007 32.571 | CHE-ARIANE16 - HROV ARIANE - MISE A EAU : |

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|------------|----------|----------------|-----------------|---|
| 27/08/2021 | 13:16:11 | N 47 36.690 | W 007 31.324 | CHE-ARIANE16 - HROV ARIANE - EN SURFACE : |
| 27/08/2021 | 13:38:12 | N 47 36.613 | W 007 30.608 | CHE-ARIANE16 - HROV ARIANE - A BORD : |
| 27/08/2021 | 15:10:28 | N 47 35.796 | W 007 32.966 | CHE-USNEL1 - CARROTIER USNEL - MISE A EAU : |
| 27/08/2021 | 15:32:22 | N 47 35.856 | W 007 32.844 | CHE-USNEL1 - CARROTIER USNEL - AU FOND : |
| 27/08/2021 | 16:08:29 | N 47 35.966 | W 007 32.651 | CHE-USNEL1 - CARROTIER USNEL - A BORD : |
| 27/08/2021 | 16:23:40 | N 47 35.820 | W 007 33.026 | CHE-USNEL2 - CARROTIER USNEL - MISE A EAU : |
| 27/08/2021 | 16:55:59 | N 47 35.876 | W 007 32.892 | CHE-USNEL2 - CARROTIER USNEL - AU FOND : |
| 27/08/2021 | 17:30:41 | N 47 36.017 | W 007 32.699 | CHE-USNEL2 - CARROTIER USNEL - A BORD : |
| 27/08/2021 | 19:00:50 | N 47 34.259 | W 007 34.720 | CHE-USNEL3 - CARROTIER USNEL - MISE A EAU : |
| 27/08/2021 | 19:35:33 | N 47 34.258 | W 007 34.704 | CHE-USNEL3 - CARROTIER USNEL - AU FOND : |
| 27/08/2021 | 20:20:04 | N 47 34.244 | W 007 33.522 | CHE-USNEL3 - CARROTIER USNEL - A BORD : |
| 27/08/2021 | 21:30:38 | N 47 34.854 | W 007 31.307 | CHE-BATHY2 - BATHYSONDE - DEBUT DE DESCENTE : |
| 27/08/2021 | 22:06:41 | N 47 34.948 | W 007 31.322 | CHE-BATHY2 - BATHYSONDE - AU FOND : |
| 27/08/2021 | 23:11:23 | N 47 34.949 | W 007 31.278 | CHE-BATHY2 - BATHYSONDE - SURFACE : |
| 28/08/2021 | 04:28:22 | N 47 36.721 | W 007 32.200 | CHE-MARLEY1 - MARLEY - MISE A EAU : Mise à l'eau Marley |
| 28/08/2021 | 05:22:59 | N 47 36.721 | W 007 32.187 | CHE-MARLEY1 - MARLEY - FOND : |
| 28/08/2021 | 07:16:10 | N 47 36.625 | W 007 32.862 | CHE-ARIANE17 - HROV ARIANE - MISE A EAU : |
| 28/08/2021 | 12:38:13 | N 47 36.851 | W 007 31.647 | CHE-ARIANE17 - HROV ARIANE - EN SURFACE : |

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|------------|----------|----------------|-----------------|---|
| 28/08/2021 | 12:58:54 | N 47 36.895 | W 007 31.141 | CHE-ARIANE17 - HROV ARIANE - A BORD : |
| 28/08/2021 | 13:53:34 | N 47 34.321 | W 007 34.794 | CHE-USNEL4 - CARROTIER USNEL - MISE A EAU : |
| 28/08/2021 | 14:19:15 | N 47 34.331 | W 007 34.544 | CHE-USNEL4 - CARROTIER USNEL - AU FOND : |
| 28/08/2021 | 14:40:20 | N 47 34.383 | W 007 34.557 | CHE-USNEL4 - CARROTIER USNEL - A BORD : |
| 28/08/2021 | 15:04:13 | N 47 34.417 | W 007 34.800 | CHE-USNEL5 - CARROTIER USNEL - MISE A EAU : |
| 28/08/2021 | 15:22:05 | N 47 34.422 | W 007 34.716 | CHE-USNEL5 - CARROTIER USNEL - AU FOND : |
| 28/08/2021 | 15:58:06 | N 47 34.637 | W 007 34.683 | CHE-USNEL5 - CARROTIER USNEL - A BORD : |
| 28/08/2021 | 16:31:28 | N 47 34.678 | W 007 31.507 | CHE-USNEL6 - CARROTIER USNEL - MISE A EAU : |
| 28/08/2021 | 17:02:49 | N 47 34.703 | W 007 31.297 | CHE-USNEL6 - CARROTIER USNEL - AU FOND : |
| 28/08/2021 | 17:37:49 | N 47 34.933 | W 007 31.186 | CHE-USNEL6 - CARROTIER USNEL - A BORD : |
| 28/08/2021 | 19:07:12 | N 47 33.869 | W 007 30.400 | CHE-USNEL7 - CARROTIER USNEL - MISE A EAU : |
| 28/08/2021 | 19:33:42 | N 47 33.846 | W 007 30.350 | CHE-USNEL7 - CARROTIER USNEL - AU FOND : |
| 28/08/2021 | 19:58:28 | N 47 33.716 | W 007 30.229 | CHE-USNEL7 - CARROTIER USNEL - A BORD : |
| 28/08/2021 | 20:17:12 | N 47 33.907 | W 007 30.454 | CHE-USNEL8 - CARROTIER USNEL - MISE A EAU : |
| 28/08/2021 | 20:42:57 | N 47 33.869 | W 007 30.447 | CHE-USNEL8 - CARROTIER USNEL - AU FOND : |
| 28/08/2021 | 21:11:33 | N 47 33.786 | W 007 30.152 | CHE-USNEL8 - CARROTIER USNEL - A BORD : |
| 28/08/2021 | 21:56:07 | N 47 31.419 | W 007 32.420 | CHE-BATHY3 - BATHYSONDE - DEBUT DE DESCENTE : |
| 28/08/2021 | 23:20:25 | N 47 31.306 | W 007 32.219 | CHE-BATHY3 - BATHYSONDE - FOND : |

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|------------|----------|----------------|-----------------|---|
| 29/08/2021 | 00:40:37 | N 47 31.306 | W 007 32.268 | CHE-BATHY3 - BATHYSONDE - SURFACE : |
| 29/08/2021 | 07:09:46 | N 47 36.577 | W 007 32.577 | CHE-ARIANE18 - HROV ARIANE - MISE A EAU : |
| 29/08/2021 | 12:25:13 | N 47 36.793 | W 007 31.483 | CHE-ARIANE18 - HROV ARIANE - EN SURFACE : |
| 29/08/2021 | 12:44:15 | N 47 36.730 | W 007 31.072 | CHE-ARIANE18 - HROV ARIANE - A BORD : |
| 29/08/2021 | 14:08:17 | N 47 33.706 | W 007 35.272 | CHE-USNEL9 - CARROTIER USNEL - MISE A EAU : |
| 29/08/2021 | 14:33:29 | N 47 33.779 | W 007 35.083 | CHE-USNEL9 - CARROTIER USNEL - AU FOND |
| 29/08/2021 | 15:08:24 | N 47 33.911 | W 007 34.820 | CHE-USNEL9 - CARROTIER USNEL - A BORD : |
| 29/08/2021 | 16:19:59 | N 47 34.787 | W 007 29.923 | CHE-BATHY4 - BATHYSONDE - DEBUT DE DESCENTE : |
| 29/08/2021 | 16:45:12 | N 47 34.464 | W 007 29.929 | CHE-BATHY4 - BATHYSONDE - AU FOND |
| 29/08/2021 | 17:06:50 | N 47 34.772 | W 007 29.939 | CHE-BATHY4 - BATHYSONDE - SURFACE : |
| 29/08/2021 | 18:05:21 | N 47 33.778 | W 007 34.967 | CHE-USNEL10 - CARROTIER USNEL - MISE A EAU : |
| 29/08/2021 | 18:24:59 | N 47 33.776 | W 007 34.995 | CHE-USNEL10 - CARROTIER USNEL - AU FOND : |
| 29/08/2021 | 19:30:47 | N 47 35.180 | W 007 31.237 | CHE-USNEL11 - CARROTIER USNEL - MISE A EAU : |
| 29/08/2021 | 20:06:48 | N 47 35.193 | W 007 31.206 | CHE-USNEL11 - CARROTIER USNEL - AU FOND : vide |
| 29/08/2021 | 20:40:49 | N 47 35.764 | W 007 30.477 | CHE-USNEL11 - CARROTIER USNEL - A BORD : |
| 29/08/2021 | 20:53:32 | N 47 36.576 | W 007 30.033 | CHE-USNEL10 - CARROTIER USNEL - MISE A EAU : |
| 29/08/2021 | 21:05:35 | N 47 36.846 | W 007 29.995 | CHE-BATHY5 - BATHYSONDE - DEBUT DE DESCENTE : |
| 29/08/2021 | 21:41:51 | N 47 36.886 | W 007 29.860 | CHE-BATHY5 - BATHYSONDE - AU FOND |

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|------------|----------|----------------|-----------------|---|
| 29/08/2021 | 22:23:00 | N 47 36.948 | W 007 29.749 | CHE-BATHY5 - BATHYSONDE - EN SURFACE |
| 30/08/2021 | 07:07:48 | N 47 36.573 | W 007 32.576 | CHE-ARIANE19 - HROV ARIANE - MISE A EAU : |
| 30/08/2021 | 13:08:09 | N 47 36.678 | W 007 31.509 | CHE-ARIANE19 - HROV ARIANE - EN SURFACE : |
| 30/08/2021 | 13:25:51 | N 47 36.566 | W 007 31.231 | CHE-ARIANE19 - HROV ARIANE - A BORD : |
| 30/08/2021 | 14:23:42 | N 47 33.745 | W 007 35.151 | CHE-USNEL12 - CARROTIER USNEL - MISE A EAU : |
| 30/08/2021 | 14:43:11 | N 47 33.791 | W 007 35.086 | CHE-USNEL12 - CARROTIER USNEL - AU FOND |
| 30/08/2021 | 15:14:58 | N 47 33.868 | W 007 35.091 | CHE-USNEL12 - CARROTIER USNEL - A BORD : |
| 30/08/2021 | 15:34:40 | N 47 33.792 | W 007 35.009 | CHE-USNEL13 - CARROTIER USNEL - MISE A EAU : |
| 30/08/2021 | 15:57:32 | N 47 33.810 | W 007 34.971 | CHE-USNEL13 - CARROTIER USNEL - AU FOND : |
| 30/08/2021 | 16:16:14 | N 47 33.822 | W 007 35.025 | CHE-USNEL13 - CARROTIER USNEL - A BORD : |
| 30/08/2021 | 20:38:19 | N 47 37.030 | W 007 31.352 | CHE-BATHY6 - BATHYSONDE - DEBUT DE DESCENTE : |
| 30/08/2021 | 20:53:53 | N 47 37.181 | W 007 31.302 | CHE-BATHY6 - BATHYSONDE - FOND : |
| 30/08/2021 | 21:28:22 | N 47 37.424 | W 007 31.060 | CHE-BATHY6 - BATHYSONDE - EN SURFACE |
| 31/08/2021 | 09:16:21 | N 47 36.693 | W 007 32.225 | CHE-MLP1 - MOUILLAGE PIEGE - DEBUT MISE A EAU : Peergynt 1 |
| 31/08/2021 | 10:06:50 | N 47 36.690 | W 007 32.126 | CHE-MLP1 - MOUILLAGE PIEGE - DEBUT FILAGE : |
| 31/08/2021 | 11:05:50 | N 47 36.713 | W 007 31.458 | CHE-MLP1 - MOUILLAGE PIEGE - AU FOND : |
| 31/08/2021 | 13:18:43 | N 47 34.522 | W 007 30.665 | CHE-MLP2 - MOUILLAGE PIEGE - DEBUT MISE A EAU : Peergynt 2 sur interfluve Est |
| 31/08/2021 | 14:04:25 | N 47 34.573 | W 007 30.460 | CHE-MLP2 - MOUILLAGE PIEGE - DEBUT FILAGE : |

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|------------|----------|----------------|-----------------|--|
| 31/08/2021 | 14:41:29 | N 47 34.786 | W 007 29.897 | CHE-MLP2 - MOUILLAGE PIEGE - AU FOND : |
| 31/08/2021 | 15:26:07 | N 47 34.560 | W 007 31.973 | CHE-MLP3 - MOUILLAGE PIEGE - DEBUT MISE A EAU : Anitra |
| 31/08/2021 | 16:17:59 | N 47 34.729 | W 007 31.520 | CHE-MLP3 - MOUILLAGE PIEGE - DEBUT FILAGE : |
| 31/08/2021 | 17:23:06 | N 47 34.827 | W 007 31.218 | CHE-MLP3 - MOUILLAGE PIEGE - AU FOND : |
| 31/08/2021 | 19:10:17 | N 47 27.901 | W 007 37.514 | CHE-BATHY7 - BATHYSONDE - DEBUT DE DESCENTE |
| 31/08/2021 | 20:30:58 | N 47 27.877 | W 007 37.439 | CHE-BATHY7 - BATHYSONDE - FOND : |
| 31/08/2021 | 21:46:06 | N 47 27.892 | W 007 37.499 | CHE-BATHY7 - BATHYSONDE - SURFACE : |
| 01/09/2021 | 07:24:15 | N 47 39.373 | W 007 28.218 | CHE-USNEL14 - CARROTIER USNEL - MISE A EAU : |
| 01/09/2021 | 07:49:07 | N 47 39.948 | W 007 27.277 | CHE-USNEL14 - CARROTIER USNEL - AU FOND : |
| 01/09/2021 | 08:10:47 | N 47 40.062 | W 007 27.063 | CHE-USNEL14 - CARROTIER USNEL - A BORD |
| 01/09/2021 | 10:00:18 | N 47 38.484 | W 007 32.608 | CHE-OS381 - ADCP 38 kHz - DEBUT ACQUISITION : |
| 01/09/2021 | 18:25:13 | N 47 36.308 | W 007 31.256 | CHE-BATHY8 - BATHYSONDE - DEBUT DE DESCENTE : |
| 01/09/2021 | 19:01:46 | N 47 36.320 | W 007 31.280 | CHE-BATHY8 - BATHYSONDE - AU FOND |
| 01/09/2021 | 19:50:09 | N 47 36.327 | W 007 31.252 | CHE-BATHY8 - BATHYSONDE - SURFACE : |
| 02/09/2021 | 13:04:52 | N 47 33.610 | W 007 35.318 | CHE-USNEL15 - CARROTIER USNEL - MISE A EAU |
| 02/09/2021 | 13:45:02 | N 47 33.778 | W 007 34.970 | CHE-USNEL15 - CARROTIER USNEL - AU FOND : |
| 03/09/2021 | 07:02:37 | N 47 36.467 | W 007 32.572 | CHE-ARIANE20 - HROV ARIANE - MISE A EAU : |
| 03/09/2021 | 08:48:33 | N 47 36.937 | W 007 31.771 | CHE-ARIANE20 - HROV ARIANE - EN SURFACE : |

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| 03/09/2021 | 08:48:35 | N 47 36.938 | W 007 31.773 | CHE-ARIANE20 - HROV ARIANE - A BORD |
| 03/09/2021 | 13:49:42 | N 47 35.085 | W 007 31.176 | CHE-BATHY9 - BATHYSONDE - DEBUT DE DESCENTE : |
| 03/09/2021 | 14:18:16 | N 47 35.150 | W 007 31.129 | CHE-BATHY9 - BATHYSONDE - FOND : |
| 03/09/2021 | 14:54:33 | N 47 35.120 | W 007 31.242 | CHE-BATHY9 - BATHYSONDE - SURFACE : |
| 03/09/2021 | 16:18:49 | N 47 33.859 | W 007 31.866 | CHE-BATHY10 - BATHYSONDE - DEBUT DE DESCENTE : |
| 03/09/2021 | 17:01:39 | N 47 33.846 | W 007 31.763 | CHE-BATHY10 - BATHYSONDE - FOND : |
| 03/09/2021 | 17:55:12 | N 47 33.864 | W 007 31.817 | CHE-BATHY10 - BATHYSONDE - SURFACE : |
| 03/09/2021 | 19:50:43 | N 47 36.287 | W 007 31.281 | CHE-BATHY11 - BATHYSONDE - DEBUT DE DESCENTE : |
| 03/09/2021 | 20:20:28 | N 47 36.318 | W 007 31.262 | CHE-BATHY11 - BATHYSONDE - FOND : |
| 03/09/2021 | 20:44:44 | N 47 36.312 | W 007 31.250 | CHE-BATHY11 - BATHYSONDE - SURFACE : |
| 03/09/2021 | 21:38:44 | N 47 36.305 | W 007 31.196 | CHE-BATHY12 - BATHYSONDE - DEBUT DE DESCENTE : |
| 03/09/2021 | 22:02:33 | N 47 36.317 | W 007 31.181 | CHE-BATHY12 - BATHYSONDE - FOND : |
| 03/09/2021 | 22:31:04 | N 47 36.303 | W 007 31.190 | CHE-BATHY12 - BATHYSONDE - SURFACE : |
| 03/09/2021 | 23:11:35 | N 47 36.352 | W 007 31.332 | CHE-BATHY13 - BATHYSONDE - DEBUT DE DESCENTE : |
| 03/09/2021 | 23:34:37 | N 47 36.296 | W 007 31.219 | CHE-BATHY13 - BATHYSONDE - FOND : |
| 04/09/2021 | 00:01:08 | N 47 36.336 | W 007 31.293 | CHE-BATHY13 - BATHYSONDE - SURFACE : |
| 04/09/2021 | 00:44:24 | N 47 36.326 | W 007 31.219 | CHE-BATHY14 - BATHYSONDE - DEBUT DE DESCENTE : |
| 04/09/2021 | 01:08:55 | N 47 36.330 | W 007 31.245 | CHE-BATHY14 - BATHYSONDE - FOND : |

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|------------|----------|----------------|-----------------|---|
| 04/09/2021 | 01:34:54 | N 47 36.325 | W 007 31.248 | CHE-BATHY14 - BATHYSONDE - SURFACE : |
| 04/09/2021 | 02:17:36 | N 47 36.322 | W 007 31.229 | CHE-BATHY15 - BATHYSONDE - DEBUT DE DESCENTE : |
| 04/09/2021 | 02:42:09 | N 47 36.310 | W 007 31.259 | CHE-BATHY15 - BATHYSONDE - FOND : |
| 04/09/2021 | 03:09:51 | N 47 36.343 | W 007 31.248 | CHE-BATHY15 - BATHYSONDE - EN SURFACE |
| 04/09/2021 | 03:50:40 | N 47 36.330 | W 007 31.267 | CHE-BATHY16 - BATHYSONDE - DEBUT DE DESCENTE : |
| 04/09/2021 | 04:15:20 | N 47 36.295 | W 007 31.232 | CHE-BATHY16 - BATHYSONDE - FOND : |
| 04/09/2021 | 04:43:48 | N 47 36.288 | W 007 31.251 | CHE-BATHY16 - BATHYSONDE - SURFACE : |
| 04/09/2021 | 05:23:37 | N 47 36.285 | W 007 31.241 | CHE-BATHY17 - BATHYSONDE - DEBUT DE DESCENTE : |
| 04/09/2021 | 05:48:55 | N 47 36.309 | W 007 31.369 | CHE-BATHY17 - BATHYSONDE - FOND : |
| 04/09/2021 | 06:15:24 | N 47 36.256 | W 007 31.347 | CHE-BATHY17 - BATHYSONDE - SURFACE : |
| 04/09/2021 | 06:51:06 | N 47 36.518 | W 007 32.652 | CHE-ARIANE21 - HROV ARIANE - MISE A EAU : |
| 04/09/2021 | 12:44:45 | N 47 36.978 | W 007 31.687 | CHE-ARIANE21 - HROV ARIANE - EN SURFACE : |
| 04/09/2021 | 13:05:11 | N 47 36.923 | W 007 31.670 | CHE-ARIANE21 - HROV ARIANE - A BORD : |

5. Sample list

5.1. Ship-based sampling

| Date | Time | Latitude | Longitude | Depth | Equipment | Num | Sample |
|------------|----------|-------------|--------------|-------|-------------|-----|--------------|
| 26/08/2021 | 18:58:05 | N 47 37.039 | W 007 31.649 | 1153 | CTD-ROSETTE | 1 | CHE - HY - 1 |
| 27/08/2021 | 22:06:41 | N 47 34.948 | W 007 31.322 | 1466 | CTD-ROSETTE | 2 | CHE - HY - 2 |
| 28/08/2021 | 23:20:25 | N 47 31.306 | W 007 32.219 | | CTD-ROSETTE | 3 | CHE - HY - 3 |
| 29/08/2021 | 16:45:12 | N 47 34.464 | W 007 29.929 | 832 | CTD-ROSETTE | 4 | CHE - HY - 4 |

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|------------|----------|-------------|--------------|------|-------------|----|------------------|
| 29/08/2021 | 21:41:51 | N 47 36.886 | W 007 29.860 | 1234 | CTD-ROSETTE | 5 | CHE - HY - 5 |
| 30/08/2021 | 20:53:53 | N 47 37.181 | W 007 31.302 | 844 | CTD-ROSETTE | 6 | CHE - HY - 6 |
| 31/08/2021 | 20:30:58 | N 47 27.877 | W 007 37.439 | 2580 | CTD-ROSETTE | 7 | CHE - HY - 7 |
| 01/09/2021 | 19:01:46 | N 47 36.320 | W 007 31.280 | 1315 | CTD-ROSETTE | 8 | CHE - HY - 8 |
| 03/09/2021 | 14:18:16 | N 47 35.150 | W 007 31.129 | 1532 | CTD-ROSETTE | 9 | CHE - HY - 9 |
| 03/09/2021 | 17:01:39 | N 47 33.846 | W 007 31.763 | 1720 | CTD-ROSETTE | 10 | CHE - HY - 10 |
| 03/09/2021 | 20:20:28 | N 47 36.318 | W 007 31.262 | 1312 | CTD-ROSETTE | 11 | CHE - HY - 11 |
| 03/09/2021 | 22:02:33 | N 47 36.317 | W 007 31.181 | 1311 | CTD-ROSETTE | 12 | CHE - HY - 12 |
| 03/09/2021 | 23:34:37 | N 47 36.296 | W 007 31.219 | 1362 | CTD-ROSETTE | 13 | CHE - HY - 13 |
| 04/09/2021 | 01:08:55 | N 47 36.330 | W 007 31.245 | 1362 | CTD-ROSETTE | 14 | CHE - HY - 14 |
| 04/09/2021 | 02:42:09 | N 47 36.310 | W 007 31.259 | 1357 | CTD-ROSETTE | 15 | CHE - HY - 15 |
| 04/09/2021 | 04:15:20 | N 47 36.295 | W 007 31.232 | 1359 | CTD-ROSETTE | 16 | CHE - HY - 16 |
| 04/09/2021 | 05:48:55 | N 47 36.309 | W 007 31.369 | 1343 | CTD-ROSETTE | 17 | CHE - HY - 17 |
| 07/08/2021 | 16:36:00 | N 47 37.225 | W 007 32.041 | 830 | SALSA | 1 | CHE - SALSA1 - 1 |
| 07/08/2021 | 17:32:00 | N 47 37.238 | W 007 32.079 | 817 | SALSA | 2 | CHE - SALSA1 - 2 |
| 08/08/2021 | 14:35:00 | N 47 37.235 | W 007 32.025 | 825 | SALSA | 2 | CHE - SALSA1 - 2 |
| 08/08/2021 | 15:43:00 | N 47 37.253 | W 007 31.983 | 838 | SALSA | 2 | CHE - SALSA1 - 2 |
| 08/08/2021 | 16:47:00 | N 47 37.247 | W 007 32.022 | 824 | SALSA | 2 | CHE - SALSA1 - 2 |
| 08/08/2021 | 17:51:00 | N 47 37.227 | W 007 31.953 | 855 | SALSA | 2 | CHE - SALSA1 - 2 |
| 12/08/2021 | 15:50:00 | N 47 36.734 | W 007 32.043 | 969 | SALSA | 3 | CHE - SALSA1 - 3 |
| 13/08/2021 | 14:05:00 | N 47 37.162 | W 007 32.377 | 683 | SALSA | 4 | CHE - SALSA1 - 4 |
| 13/08/2021 | 15:00:00 | N 47 37.045 | W 007 32.112 | 795 | SALSA | 4 | CHE - SALSA1 - 4 |
| 15/08/2021 | 00:25:00 | N 47 35.393 | W 007 31.100 | 1459 | SALSA | 5 | CHE - SALSA1 - 5 |

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|------------|----------|-------------|--------------|------|-----------------|----|------------------|
| 15/08/2021 | 01:20:00 | N 47 35.403 | W 007 31.115 | 1447 | SALSA | 5 | CHE - SALSA1 - 5 |
| 15/08/2021 | 03:25:00 | N 47 35.394 | W 007 31.109 | 1452 | SALSA | 6 | CHE - SALSA1 - 6 |
| 15/08/2021 | 04:20:00 | N 47 35.454 | W 007 31.120 | 2230 | SALSA | 6 | CHE - SALSA1 - 6 |
| 15/08/2021 | 16:49:00 | N 47 36.689 | W 007 32.073 | 786 | SALSA | 7 | CHE - SALSA1 - 7 |
| 15/08/2021 | 20:27:12 | N 47 36.670 | W 007 32.028 | 835 | SALSA | 7 | CHE - SALSA1 - 7 |
| 16/08/2021 | 00:00:13 | N 47 36.693 | W 007 32.040 | 819 | SALSA | 7 | CHE - SALSA1 - 7 |
| 16/08/2021 | 03:33:05 | N 47 36.682 | W 007 32.106 | 783 | SALSA | 7 | CHE - SALSA1 - 7 |
| 17/08/2021 | 12:44:04 | N 47 34.178 | W 007 30.541 | 1104 | SALSA | 8 | CHE - SALSA1 - 8 |
| 27/08/2021 | 16:55:59 | N 47 35.870 | W 007 32.880 | 728 | USNEL Box-corer | 2 | CHE - KGS - 2 |
| 27/08/2021 | 19:35:33 | N 47 34.270 | W 007 34.704 | 737 | USNEL Box-corer | 3 | CHE - KGS - 3 |
| 28/08/2021 | 14:19:15 | N 47 34.334 | W 007 34.547 | 731 | USNEL Box-corer | 4 | CHE - KGS - 4 |
| 28/08/2021 | 15:22:05 | N 47 34.422 | W 007 34.716 | 741 | USNEL Box-corer | 5 | CHE - KGS - 5 |
| 28/08/2021 | 17:02:49 | N 47 34.696 | W 007 31.301 | 1524 | USNEL Box-corer | 6 | CHE - KGS - 6 |
| 28/08/2021 | 19:33:42 | N 47 33.851 | W 007 30.338 | 1025 | USNEL Box-corer | 7 | CHE - KGS - 7 |
| 28/08/2021 | 20:42:57 | N 47 33.876 | W 007 30.435 | 1040 | USNEL Box-corer | 8 | CHE - KGS - 8 |
| 29/08/2021 | 14:33:29 | N 47 33.778 | W 007 35.083 | 850 | USNEL Box-corer | 9 | CHE - KGS - 9 |
| 29/08/2021 | 18:24:59 | N 47 33.776 | W 007 34.994 | 833 | USNEL Box-corer | 10 | CHE - KGS - 10 |
| 01/09/2021 | 07:49:07 | N 47 39.939 | W 007 27.311 | 298 | USNEL Box-corer | 14 | CHE - KGS - 14 |

5.2. ROV-based sampling

| Dive | Date | Time | Latitude | Longitude | Depth | Equipment | Num | Sample |
|------|------------|----------|----------------|-----------------|-------|-----------|-----|-----------------------------------|
| 200 | 09/08/2021 | 12:11:48 | N 47 36.584 | W 007 32.161 | 786 | Basket | 1 | CHEREEF - PANIER - 1 |
| 202 | 11/08/2021 | 13:08:51 | N 47 36.744 | W 007 32.094 | 886 | Coral Box | 1 | CHEREEF - Coral Box HROV B - 1 |

| | | | | | | | | |
|-----|------------|----------|----------------|-----------------|-----|----------------|---|-----------------------------------|
| 202 | 11/08/2021 | 13:16:52 | N 47 36.739 | W 007 32.088 | 885 | Basket | 1 | CHE - CB-D - 1 |
| 203 | 12/08/2021 | 09:51:43 | N 47 36.702 | W 007 32.121 | 799 | Coral Box B | 1 | CHEREEF - Coral Box HROV B - 1 |
| 203 | 12/08/2021 | 10:14:33 | N 47 36.713 | W 007 32.124 | 806 | Coral Box A | 1 | CHEREEF - Coral Box HROV A - 1 |
| 203 | 12/08/2021 | 10:14:33 | N 47 36.713 | W 007 32.124 | 806 | Coral Box C | 1 | CHEREEF - CB-C - 1 |
| 206 | 16/08/2021 | 09:50:17 | N 47 36.685 | W 007 32.111 | 806 | Coral Box C | 1 | CHE - CB-C - 1 |
| 206 | 16/08/2021 | 10:24:51 | N 47 36.685 | W 007 32.111 | 798 | Coral Box C | 2 | CHE - CB-C - 2 |
| 206 | 16/08/2021 | 10:32:02 | N 47 36.685 | W 007 32.112 | 798 | Slurp gun | 1 | CHEREEF - ASPI - 1 |
| 206 | 16/08/2021 | 10:33:18 | N 47 36.685 | W 007 32.112 | 798 | Slurp gun | 2 | CHEREEF - ASPI - 2 |
| 213 | 27/08/2021 | 12:07:22 | N 47 36.704 | W 007 32.190 | 776 | Coral Box D | 1 | CHE - CB-D - 1 |
| 213 | 27/08/2021 | 12:24:51 | N 47 36.690 | W 007 32.175 | 779 | Push Corer | 2 | CHE-PL213-16- CT/PC-02 |
| 214 | 28/08/2021 | 09:24:57 | N 47 36.685 | W 007 32.145 | 792 | Coral Box A | 1 | CHE-PL214-17-CB- A-01 |
| 214 | 28/08/2021 | 09:33:15 | N 47 36.685 | W 007 32.144 | 792 | Coral Box A | 2 | CHE-PL214-17-CB- A-02 |
| 214 | 28/08/2021 | 09:45:37 | N 47 36.685 | W 007 32.139 | 794 | Coral Box B | 1 | CHE-PL214-17-CB- B-01 |
| 215 | 29/08/2021 | 08:49:34 | N 47 36.685 | W 007 32.150 | 789 | Coral Box D | 1 | CHE-PL215-18-CB- D-01 |
| 215 | 29/08/2021 | 09:08:48 | N 47 36.688 | W 007 32.146 | 790 | Coral Box A | 1 | CHE-PL215-18-CB- A-01 |
| 215 | 29/08/2021 | 09:25:58 | N 47 36.685 | W 007 32.144 | 790 | Coral Box D | 2 | CHE-PL215-18-CB- D-02 |
| 215 | 29/08/2021 | 09:30:43 | N 47 36.686 | W 007 32.142 | 790 | Coral Box A | 2 | CHE-PL215-18-CB- A-02 |
| 215 | 29/08/2021 | 09:39:01 | N 47 36.685 | W 007 32.143 | 790 | Coral Box A | 3 | CHE-PL215-18-CB- A-03 |
| 218 | 04/09/2021 | 11:53:52 | N 47 36.672 | W 007 32.175 | 780 | Coral Box B | 1 | CHE-PL218-21-CB-B - 01 |
| 218 | 04/09/2021 | 11:55:39 | N 47 36.672 | W 007 32.175 | 780 | Coral Box D | 1 | CHE-PL218-21-CB-D - 01 |
| 218 | 04/09/2021 | 11:59:39 | N 47 36.672 | W 007 32.175 | 780 | Coral Box A | 1 | CHE-PL218-21-CB-A - 01 |
| 218 | 04/09/2021 | 12:05:59 | N 47 36.673 | W 007 32.173 | 780 | Coral Box B | 2 | CHE-PL218-21-CB-B - 02 |

| | | | | | | | | |
|-----|------------|----------|----------------|-----------------|-----|--------|---|------------------------------|
| 218 | 04/09/2021 | 12:08:27 | N 47 36.673 | W 007 32.173 | 780 | Basket | 1 | CHE-PL218-21- PANIER - 01 |
|-----|------------|----------|----------------|-----------------|-----|--------|---|------------------------------|

5.3. Mooring list

| Name | Laying Date | Dive (deploy.) | Lat | Long | Depth (m) | Comments |
|--------------------|-------------|----------------|----------------|-----------------|-----------|--|
| MARLEY Observatory | 8/28/21 | | N 47 36.721 | W 007 32.187 | | Monitoring platform |
| MARLEY Camera | 9/4/21 | 218 | N 47 36.709 | W 007 32.173 | | Video camera |
| Aniitra | 8/31/21 | | N 47 34.827 | W 007 31.218 | | Mooring line (sediment trap, ADCP, turbidimeter) |
| Peergynt 1 | 8/31/21 | | N 47 36.713 | W 007 31.458 | | Mooring line (sediment trap, ADCP, turbidimeter) |
| Peergynt 2 | 8/31/21 | | N 47 34.786 | W 007 29.897 | | Mooring line (sediment trap, ADCP, turbidimeter) |
| RANCH-1 | 8/16/21 | 206 | N 47 36.692 | W 007 32.117 | 805 | Coral redeployment and growth assessment |
| RANCH-2 | 8/30/21 | 216 | N 47 36.703 | W 007 32.192 | 779 | Coral redeployment and growth assessment |

6. Dive summaries

6.1. Dive : 198 - 1

Date: **05/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|--------------|
| 05/08/2021 | 14:00 | |
| 05/08/2021 | 16:00 | |

Station: **Zone du Renard**

Submersible: **Ariane**

Latitude: **N 48 20.568**

Longitude: **W 004 29.104**

Prospected locations **Zone du Renard**

6.1.1. Objectives

Calibration of the multibeam echosounders EM2040 of the AUV and HROV Ariane

6.1.2. Work abstract

- 0 Sample operations
- 0 Measures
- 0 Moorings
- 0 Images

6.1.3. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|----------------|----------|-----------|----------|---|
| 8/5/21 | 14:58 | Zone du Renard | | | | Arrivée au fond |
| 8/5/21 | 15:00 | Zone du Renard | | | | Calibration des différents mode du Sondeur Multifaisceaux 2040 sur une longueur de 150m |
| 8/5/21 | 16:09 | Zone du Renard | | | | Départ du fond |

6.2. Dive : 199-2

Date: **07/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|--|
| 07/08/2021 | 06:00 | Olu Karine, Floc'h Nicolas, Fabri Marie-Claire |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

6.2.1. Objectives

Calibration of the inertial navigation system of the HROV but due to a due a power failure on the winch the dive has been aborted.

6.2.2. Work abstract

- 0 Sample operations
- 0 Measures
- 0 Moorings
- 8 Images

6.2.3. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|-------------------|-------------|--------------|----------|---|
| 8/7/21 | 07:12 | Canyon de Lampaul | N 47 36.936 | W 007 30.241 | -4 | Demarrage enregistrement vidéos pour Nicolas Floch |
| 8/7/21 | 07:15 | Canyon de Lampaul | N 47 36.958 | W 007 30.335 | 0 | video et APN pour Art |
| 8/7/21 | 07:18 | Canyon de Lampaul | N 47 36.963 | W 007 30.385 | 2 | video et APN pour Art |
| 8/7/21 | 07:28 | Canyon de Lampaul | N 47 36.988 | W 007 30.468 | 13 | debut de descente |
| 8/7/21 | 07:54 | Canyon de Lampaul | N 47 37.085 | W 007 30.892 | 173 | Petit probleme electrique sur le treuil, en attente de resolution du problème |
| 8/7/21 | 10:01 | Canyon de Lampaul | N 47 36.691 | W 007 30.962 | 41 | Probleme sur treuil et probleme de line-guide qui s'est détachée. |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|----------------------|----------------|-----------------|--------------|--------------------|
| 8/7/21 | 10:01 | Canyon de Lampaul | N 47 36.695 | W 007 30.966 | 46 | Remontée de Ariane |
| 8/7/21 | 10:03 | Canyon de Lampaul | N 47 36.702 | W 007 30.972 | 53 | Fin de plongée |

6.3. Dive: 200 - 3

Date: **09/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|--|
| 09/08/2021 | 08:00 | Floc'h Nicolas, Tourolle Julie, Menot Lénaïck |
| 09/08/2021 | 10:00 | Olu Karine, Fabri Marie-Claire, Tourolle Julie |
| 09/08/2021 | 12:00 | Lartaud Franck, Tourolle Julie |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

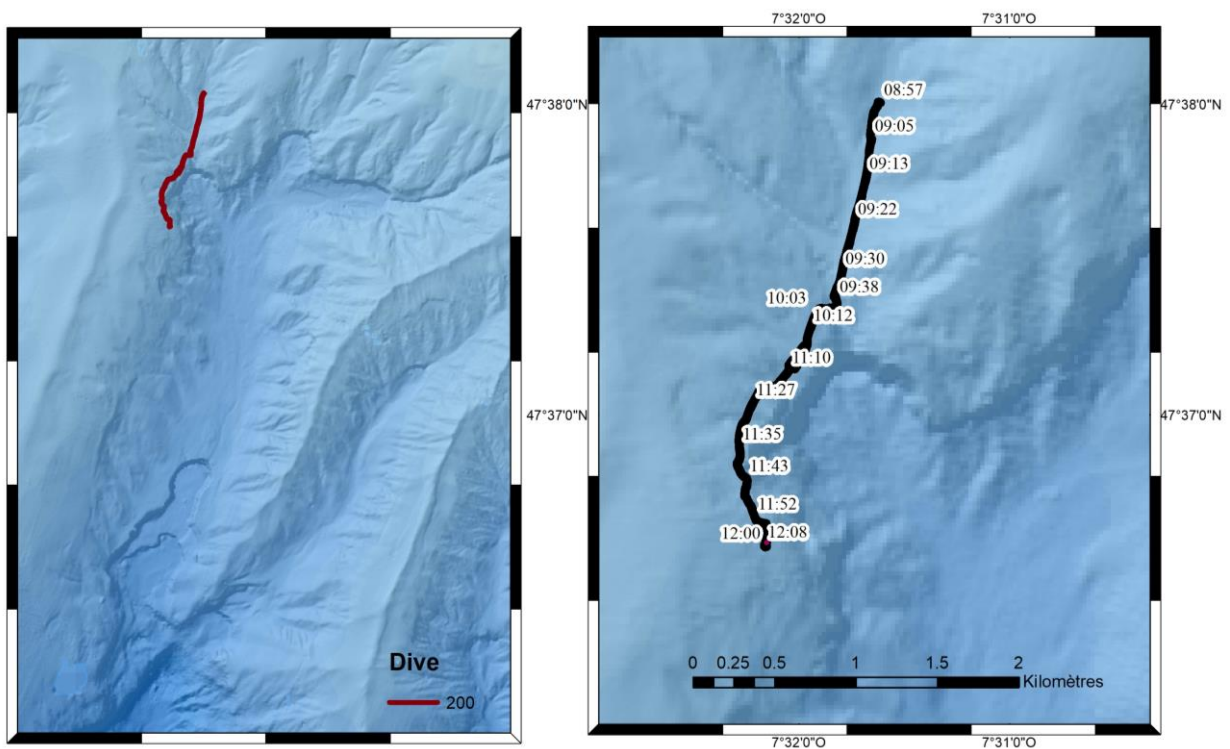
6.3.1. Objectives

First dive on the upper-canyon cliff. The objectives are to calibrate the inertial navigation system along a 2 km transect at 30 m above seafloor then explore the right flank in the upper canyon at an altitude of 3-5 m and a speed of 0.3 – 0.5 m/s, searching for coral reefs.

6.3.2. Work abstract

- 2 Sample operations
- 0 Measures
- 0 Moorings
- 148 Images

6.3.3. Map



6.3.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|-------------------|----------------|-----------------|----------|--|
| 8/9/21 | 07:28 | Canyon de Lampaul | N 47 37.951 | W 007 30.700 | 2 | Mise a l'eau |
| 8/9/21 | 07:49 | Canyon de Lampaul | N 47 38.057 | W 007 31.181 | 26 | Debut de descente |
| 8/9/21 | 08:56 | Canyon de Lampaul | N 47 37.996 | W 007 31.603 | 737 | Debut de calibration DVL / Phins 30 m d'altitude |
| 8/9/21 | 08:58 | Canyon de Lampaul | N 47 38.005 | W 007 31.623 | 740 | Debut d'enregistrement cameras |
| 8/9/21 | 09:42 | Canyon de Lampaul | N 47 37.345 | W 007 31.823 | 873 | changement de quart Marie claire, karine, julie |
| 8/9/21 | 09:43 | Canyon de Lampaul | N 47 37.347 | W 007 31.825 | 892 | Arrivee au fond |
| 8/9/21 | 09:49 | Canyon de Lampaul | N 47 37.343 | W 007 31.856 | 920 | CORAIL |
| 8/9/21 | 09:51 | Canyon de Lampaul | N 47 37.342 | W 007 31.859 | 911 | CORAIL Lophelia |
| 8/9/21 | 09:52 | Canyon de Lampaul | N 47 37.343 | W 007 31.860 | 905 | suivi falaise 2m de la falaise |
| 8/9/21 | 09:53 | Canyon de Lampaul | N 47 37.342 | W 007 31.865 | 900 | SUBSTRAT dur sediment |
| 8/9/21 | 09:54 | Canyon de | N 47 | W 007 | 892 | SUBSTRAT dur + sediment |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 37.343 | 31.869 | | |
| 8/9/21 | 09:55 | Canyon de Lampaul | N 47 37.343 | W 007 31.874 | 888 | affleurement roche |
| 8/9/21 | 09:55 | Canyon de Lampaul | N 47 37.343 | W 007 31.877 | 885 | CORAIL isolee |
| 8/9/21 | 09:56 | Canyon de Lampaul | N 47 37.343 | W 007 31.891 | 875 | CORAIL |
| 8/9/21 | 09:56 | Canyon de Lampaul | N 47 37.343 | W 007 31.892 | 873 | CORAIL isolee |
| 8/9/21 | 09:57 | Canyon de Lampaul | N 47 37.343 | W 007 31.895 | 871 | sebaste |
| 8/9/21 | 09:59 | Canyon de Lampaul | N 47 37.340 | W 007 31.905 | 867 | CORAIL debris SUBSTRAT DUR + sediment |
| 8/9/21 | 09:59 | Canyon de Lampaul | N 47 37.339 | W 007 31.907 | 865 | CORAIL CORAIL debris |
| 8/9/21 | 10:02 | Canyon de Lampaul | N 47 37.334 | W 007 31.914 | 865 | CORAIL peu dense |
| 8/9/21 | 10:03 | Canyon de Lampaul | N 47 37.334 | W 007 31.914 | 865 | CORAIL madrepora peu dense |
| 8/9/21 | 10:04 | Canyon de Lampaul | N 47 37.334 | W 007 31.914 | 865 | CORAIL peu dense |
| 8/9/21 | 10:05 | Canyon de Lampaul | N 47 37.332 | W 007 31.916 | 863 | SUBSTRAT DUR + sediment |
| 8/9/21 | 10:05 | Canyon de Lampaul | N 47 37.330 | W 007 31.916 | 865 | SUSTRAT roche recouverte de sediment vagues de courants |
| 8/9/21 | 10:07 | Canyon de Lampaul | N 47 37.326 | W 007 31.919 | 864 | CORAIL debris |
| 8/9/21 | 10:08 | Canyon de Lampaul | N 47 37.322 | W 007 31.921 | 865 | CORAIL peu dense |
| 8/9/21 | 10:10 | Canyon de Lampaul | N 47 37.309 | W 007 31.931 | 864 | CORAIL isolee |
| 8/9/21 | 10:10 | Canyon de Lampaul | N 47 37.306 | W 007 31.933 | 864 | CORAIL isolee |
| 8/9/21 | 10:10 | Canyon de Lampaul | N 47 37.297 | W 007 31.937 | 863 | CORAIL isolee |
| 8/9/21 | 10:11 | Canyon de Lampaul | N 47 37.281 | W 007 31.945 | 865 | oursin |
| 8/9/21 | 10:13 | Canyon de Lampaul | N 47 37.257 | W 007 31.957 | 866 | CORAIL isolee |
| 8/9/21 | 10:13 | Canyon de Lampaul | N 47 37.253 | W 007 31.958 | 866 | CORAIL peu dense |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|-------------------|----------------|-----------------|----------|-----------------------------|
| 8/9/21 | 10:13 | Canyon de Lampaul | N 47 37.250 | W 007 31.959 | 866 | SUBSTRAT MEUBLE |
| 8/9/21 | 10:14 | Canyon de Lampaul | N 47 37.243 | W 007 31.962 | 869 | SUBSTRAT DUR |
| 8/9/21 | 10:15 | Canyon de Lampaul | N 47 37.241 | W 007 31.962 | 869 | CORAIL peu dense |
| 8/9/21 | 10:15 | Canyon de Lampaul | N 47 37.237 | W 007 31.962 | 869 | CORAIL dense |
| 8/9/21 | 10:16 | Canyon de Lampaul | N 47 37.229 | W 007 31.964 | 865 | CORAIL peu dense |
| 8/9/21 | 10:16 | Canyon de Lampaul | N 47 37.227 | W 007 31.964 | 865 | SUBSTRAT dur + sediment |
| 8/9/21 | 10:17 | Canyon de Lampaul | N 47 37.224 | W 007 31.965 | 867 | DECHET plastique + poisson |
| 8/9/21 | 10:18 | Canyon de Lampaul | N 47 37.223 | W 007 31.966 | 866 | CORAIL peu dense + debris |
| 8/9/21 | 10:19 | Canyon de Lampaul | N 47 37.217 | W 007 31.968 | 865 | SUBSTRAT dur + sediment |
| 8/9/21 | 10:20 | Canyon de Lampaul | N 47 37.199 | W 007 31.980 | 867 | CORAIL debris |
| 8/9/21 | 10:22 | Canyon de Lampaul | N 47 37.171 | W 007 32.006 | 867 | requin |
| 8/9/21 | 10:23 | Canyon de Lampaul | N 47 37.170 | W 007 32.006 | 868 | arret car pb bateau |
| 8/9/21 | 10:24 | Canyon de Lampaul | N 47 37.171 | W 007 32.008 | 868 | mise en secu on suit bateau |
| 8/9/21 | 10:25 | Canyon de Lampaul | N 47 37.173 | W 007 32.007 | 864 | problème propulseur bateau |
| 8/9/21 | 10:26 | Canyon de Lampaul | N 47 37.177 | W 007 32.006 | 848 | on repart |
| 8/9/21 | 10:30 | Canyon de Lampaul | N 47 37.151 | W 007 32.017 | 862 | Karine a mimosa |
| 8/9/21 | 10:31 | Canyon de Lampaul | N 47 37.155 | W 007 32.014 | 853 | numerisation camera science |
| 8/9/21 | 10:38 | Canyon de Lampaul | N 47 37.175 | W 007 32.007 | 834 | camera science |
| 8/9/21 | 11:02 | Canyon de Lampaul | N 47 37.206 | W 007 31.994 | 859 | corail débris |
| 8/9/21 | 11:03 | Canyon de Lampaul | N 47 37.200 | W 007 31.998 | 860 | sediment meuble et debris |
| 8/9/21 | 11:05 | Canyon de | N 47 | W 007 | 859 | oursin |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 37.187 | 32.015 | | |
| 8/9/21 | 11:05 | Canyon de Lampaul | N 47 37.182 | W 007 32.022 | 859 | corail isole |
| 8/9/21 | 11:05 | Canyon de Lampaul | N 47 37.180 | W 007 32.025 | 858 | etoile de mer |
| 8/9/21 | 11:06 | Canyon de Lampaul | N 47 37.169 | W 007 32.039 | 860 | corail isole |
| 8/9/21 | 11:08 | Canyon de Lampaul | N 47 37.159 | W 007 32.049 | 868 | CORAIL et debris |
| 8/9/21 | 11:09 | Canyon de Lampaul | N 47 37.155 | W 007 32.046 | 871 | ligne peche et debris |
| 8/9/21 | 11:09 | Canyon de Lampaul | N 47 37.149 | W 007 32.046 | 874 | CORAIL et debris |
| 8/9/21 | 11:10 | Canyon de Lampaul | N 47 37.145 | W 007 32.048 | 874 | SUBSTRAT roche et sediment |
| 8/9/21 | 11:10 | Canyon de Lampaul | N 47 37.142 | W 007 32.051 | 874 | debris et roche |
| 8/9/21 | 11:11 | Canyon de Lampaul | N 47 37.134 | W 007 32.058 | 873 | CORAIL mort et debris et CORAIL vivant |
| 8/9/21 | 11:11 | Canyon de Lampaul | N 47 37.132 | W 007 32.061 | 873 | CORAIL mort |
| 8/9/21 | 11:12 | Canyon de Lampaul | N 47 37.123 | W 007 32.071 | 869 | CORAIL peu dense |
| 8/9/21 | 11:12 | Canyon de Lampaul | N 47 37.121 | W 007 32.074 | 867 | CORAIL mort |
| 8/9/21 | 11:12 | Canyon de Lampaul | N 47 37.120 | W 007 32.075 | 866 | CORAIL vivant peu dense |
| 8/9/21 | 11:12 | Canyon de Lampaul | N 47 37.119 | W 007 32.076 | 864 | CORAIL vivant peu dense et roche |
| 8/9/21 | 11:13 | Canyon de Lampaul | N 47 37.118 | W 007 32.077 | 864 | CORAIL vivant peu dense |
| 8/9/21 | 11:13 | Canyon de Lampaul | N 47 37.115 | W 007 32.080 | 857 | CORAIL peu dense |
| 8/9/21 | 11:14 | Canyon de Lampaul | N 47 37.112 | W 007 32.086 | 855 | CORAIL peu dense vivant et mort |
| 8/9/21 | 11:14 | Canyon de Lampaul | N 47 37.110 | W 007 32.089 | 852 | Roche et banc huitres |
| 8/9/21 | 11:14 | Canyon de Lampaul | N 47 37.109 | W 007 32.090 | 850 | falaise huitre et CORAIL vivant |
| 8/9/21 | 11:15 | Canyon de Lampaul | N 47 37.108 | W 007 32.090 | 847 | CORAIL vivant lophelia et madrepora |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|-------------------|----------------|-----------------|----------|--|
| 8/9/21 | 11:15 | Canyon de Lampaul | N 47 37.106 | W 007 32.091 | 846 | CORAIL vivant et huitres |
| 8/9/21 | 11:16 | Canyon de Lampaul | N 47 37.105 | W 007 32.092 | 843 | CORAIL peu dense mort |
| 8/9/21 | 11:16 | Canyon de Lampaul | N 47 37.103 | W 007 32.093 | 842 | CORAIL vivant peu dense |
| 8/9/21 | 11:17 | Canyon de Lampaul | N 47 37.100 | W 007 32.100 | 838 | CORAIL vivant |
| 8/9/21 | 11:17 | Canyon de Lampaul | N 47 37.098 | W 007 32.102 | 835 | CORAIL vivant huitre |
| 8/9/21 | 11:17 | Canyon de Lampaul | N 47 37.098 | W 007 32.103 | 833 | anthipataire |
| 8/9/21 | 11:17 | Canyon de Lampaul | N 47 37.098 | W 007 32.103 | 831 | anthipataire et CORAIL vivant madrepora |
| 8/9/21 | 11:17 | Canyon de Lampaul | N 47 37.097 | W 007 32.102 | 831 | CORAIL madrepora |
| 8/9/21 | 11:18 | Canyon de Lampaul | N 47 37.097 | W 007 32.102 | 831 | CORAIL madrepora vivant |
| 8/9/21 | 11:18 | Canyon de Lampaul | N 47 37.097 | W 007 32.101 | 831 | CORAIL madrepora peu dense |
| 8/9/21 | 11:18 | Canyon de Lampaul | N 47 37.098 | W 007 32.102 | 830 | CORAIL vivant et narella |
| 8/9/21 | 11:20 | Canyon de Lampaul | N 47 37.093 | W 007 32.115 | 823 | CORAIL peu dense |
| 8/9/21 | 11:20 | Canyon de Lampaul | N 47 37.092 | W 007 32.118 | 822 | CORAIL |
| 8/9/21 | 11:20 | Canyon de Lampaul | N 47 37.092 | W 007 32.120 | 821 | CORAIL et DECHET plastique |
| 8/9/21 | 11:20 | Canyon de Lampaul | N 47 37.091 | W 007 32.123 | 819 | CORAIL dense et mur huitre |
| 8/9/21 | 11:21 | Canyon de Lampaul | N 47 37.091 | W 007 32.127 | 814 | CORAIL peu dense |
| 8/9/21 | 11:21 | Canyon de Lampaul | N 47 37.089 | W 007 32.135 | 808 | CORAIL peu dense mort et vivant |
| 8/9/21 | 11:22 | Canyon de Lampaul | N 47 37.086 | W 007 32.151 | 798 | CORAIL peu dense mort et vivant |
| 8/9/21 | 11:22 | Canyon de Lampaul | N 47 37.086 | W 007 32.154 | 796 | CORAIL peu dense |
| 8/9/21 | 11:23 | Canyon de Lampaul | N 47 37.084 | W 007 32.164 | 790 | CORAIL peu dense et SUBSTRAT dur et sediment |
| 8/9/21 | 11:23 | Canyon de | N 47 | W 007 | 783 | CORAIL peu dense mort et vivant |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 37.081 | 32.176 | | |
| 8/9/21 | 11:25 | Canyon de Lampaul | N 47 37.053 | W 007 32.208 | 771 | PLEINE EAU |
| 8/9/21 | 11:26 | Canyon de Lampaul | N 47 37.049 | W 007 32.211 | 770 | SUBRAT ROCHE et oursins |
| 8/9/21 | 11:26 | Canyon de Lampaul | N 47 37.041 | W 007 32.218 | 774 | CORAIL isole |
| 8/9/21 | 11:26 | Canyon de Lampaul | N 47 37.040 | W 007 32.219 | 773 | CORAIL isole mort et vivant |
| 8/9/21 | 11:27 | Canyon de Lampaul | N 47 37.025 | W 007 32.229 | 767 | CORAIL peu dense mort et vivant |
| 8/9/21 | 11:30 | Canyon de Lampaul | N 47 36.983 | W 007 32.255 | 780 | substrat dur plus sedim |
| 8/9/21 | 11:30 | Canyon de Lampaul | N 47 36.980 | W 007 32.259 | 777 | CORAIL mort + vivant |
| 8/9/21 | 11:30 | Canyon de Lampaul | N 47 36.977 | W 007 32.263 | 774 | colonies eparses Lophelia orange, blanc vivant et mort |
| 8/9/21 | 11:31 | Canyon de Lampaul | N 47 36.970 | W 007 32.269 | 767 | couverture env. 40% Lophelia sur sedim,+gorgon |
| 8/9/21 | 11:31 | Canyon de Lampaul | N 47 36.963 | W 007 32.273 | 762 | Callogorgia ? |
| 8/9/21 | 11:32 | Canyon de Lampaul | N 47 36.947 | W 007 32.280 | 753 | sebaste |
| 8/9/21 | 11:33 | Canyon de Lampaul | N 47 36.940 | W 007 32.282 | 749 | sedim |
| 8/9/21 | 11:33 | Canyon de Lampaul | N 47 36.933 | W 007 32.284 | 747 | sebaste |
| 8/9/21 | 11:33 | Canyon de Lampaul | N 47 36.929 | W 007 32.285 | 745 | CORAIL |
| 8/9/21 | 11:33 | Canyon de Lampaul | N 47 36.926 | W 007 32.285 | 744 | vivnt et mort, peu dense |
| 8/9/21 | 11:34 | Canyon de Lampaul | N 47 36.910 | W 007 32.286 | 741 | etoiles, oursins |
| 8/9/21 | 11:34 | Canyon de Lampaul | N 47 36.906 | W 007 32.286 | 741 | sedim plus granuleux (debris coraux ?) |
| 8/9/21 | 11:36 | Canyon de Lampaul | N 47 36.881 | W 007 32.281 | 740 | cerianthe |
| 8/9/21 | 11:36 | Canyon de Lampaul | N 47 36.878 | W 007 32.281 | 740 | crabe |
| 8/9/21 | 11:37 | Canyon de Lampaul | N 47 36.862 | W 007 32.282 | 737 | poisson |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|-------------------|----------------|-----------------|----------|---|
| 8/9/21 | 11:40 | Canyon de Lampaul | N 47 36.832 | W 007 32.289 | 733 | 730m |
| 8/9/21 | 11:40 | Canyon de Lampaul | N 47 36.825 | W 007 32.284 | 736 | narella |
| 8/9/21 | 11:42 | Canyon de Lampaul | N 47 36.817 | W 007 32.280 | 739 | poisson |
| 8/9/21 | 11:43 | Canyon de Lampaul | N 47 36.798 | W 007 32.256 | 744 | marche |
| 8/9/21 | 11:43 | Canyon de Lampaul | N 47 36.791 | W 007 32.247 | 747 | bordure falaise 750m |
| 8/9/21 | 11:47 | Canyon de Lampaul | N 47 36.744 | W 007 32.259 | 751 | cidaris |
| 8/9/21 | 11:47 | Canyon de Lampaul | N 47 36.740 | W 007 32.259 | 752 | empereur ? |
| 8/9/21 | 11:49 | Canyon de Lampaul | N 47 36.724 | W 007 32.243 | 758 | cidaris |
| 8/9/21 | 11:49 | Canyon de Lampaul | N 47 36.720 | W 007 32.240 | 760 | poisson |
| 8/9/21 | 11:50 | Canyon de Lampaul | N 47 36.711 | W 007 32.233 | 764 | cidaris sur APN |
| 8/9/21 | 11:50 | Canyon de Lampaul | N 47 36.699 | W 007 32.225 | 771 | etoile |
| 8/9/21 | 11:51 | Canyon de Lampaul | N 47 36.688 | W 007 32.219 | 774 | debris sur le fond |
| 8/9/21 | 11:51 | Canyon de Lampaul | N 47 36.684 | W 007 32.217 | 775 | chimere |
| 8/9/21 | 11:52 | Canyon de Lampaul | N 47 36.667 | W 007 32.207 | 778 | colonies eparses |
| 8/9/21 | 11:52 | Canyon de Lampaul | N 47 36.665 | W 007 32.204 | 778 | CORAIL |
| 8/9/21 | 11:52 | Canyon de Lampaul | N 47 36.664 | W 007 32.204 | 779 | Lophelia, gorgones |
| 8/9/21 | 11:52 | Canyon de Lampaul | N 47 36.661 | W 007 32.203 | 778 | densité moyenne des colonies (Loph ou Madrepora orange + Callogorgia) |
| 8/9/21 | 11:53 | Canyon de Lampaul | N 47 36.656 | W 007 32.191 | 780 | 780m |
| 8/9/21 | 11:54 | Canyon de Lampaul | N 47 36.654 | W 007 32.179 | 783 | changement APN _ 1/250 |
| 8/9/21 | 11:54 | Canyon de Lampaul | N 47 36.653 | W 007 32.174 | 785 | toujours colonies eparses, nb mort |
| 8/9/21 | 11:55 | Canyon de | N 47 | W 007 | 790 | nb colonies mortes, qlq vivantes, taille |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 36.649 | 32.156 | | modérée |
| 8/9/21 | 11:56 | Canyon de Lampaul | N 47 36.621 | W 007 32.155 | 795 | toujours colonies eparses |
| 8/9/21 | 11:57 | Canyon de Lampaul | N 47 36.607 | W 007 32.158 | 797 | Lohelia + Madrepora orangés |
| 8/9/21 | 11:57 | Canyon de Lampaul | N 47 36.603 | W 007 32.159 | 797 | dechet (plastique ?) |
| 8/9/21 | 11:59 | Canyon de Lampaul | N 47 36.579 | W 007 32.162 | 800 | Lophelia blanc +orange |
| 8/9/21 | 12:00 | Canyon de Lampaul | N 47 36.576 | W 007 32.160 | 800 | Madrepora orange |
| 8/9/21 | 12:01 | Canyon de Lampaul | N 47 36.576 | W 007 32.161 | 800 | laser |
| 8/9/21 | 12:04 | Canyon de Lampaul | N 47 36.579 | W 007 32.157 | 797 | arret-reliance enregistrement video |
| 8/9/21 | 12:05 | Canyon de Lampaul | N 47 36.578 | W 007 32.153 | 799 | tentative prelevement |
| 8/9/21 | 12:08 | Canyon de Lampaul | N 47 36.581 | W 007 32.164 | 801 | Madrepora a collecter |
| 8/9/21 | 12:09 | Canyon de Lampaul | N 47 36.580 | W 007 32.165 | 801 | Debut de PRELEVEMEN pour PANIER-01 : Madrepora attrapé |
| 8/9/21 | 12:11 | Canyon de Lampaul | N 47 36.584 | W 007 32.161 | 786 | PRELEVEMEN PANIER-01 Madrepora |
| 8/9/21 | 12:12 | Canyon de Lampaul | N 47 36.585 | W 007 32.159 | 782 | Panier rangé |
| 8/9/21 | 12:12 | Canyon de Lampaul | N 47 36.586 | W 007 32.158 | 781 | Fin plongé |
| 8/9/21 | 12:12 | Canyon de Lampaul | N 47 36.588 | W 007 32.155 | 776 | ajout point remarquable zone prel corail |

6.4. Dive: 201 - 4

Date: **10/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|---|
| 10/08/2021 | 08:00 | Olu Karine, Tourolle Julie, Menot Lénaïck |
| 10/08/2021 | 10:00 | Lartaud Franck, Fabri Marie-Claire, Chemel Mathilde |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

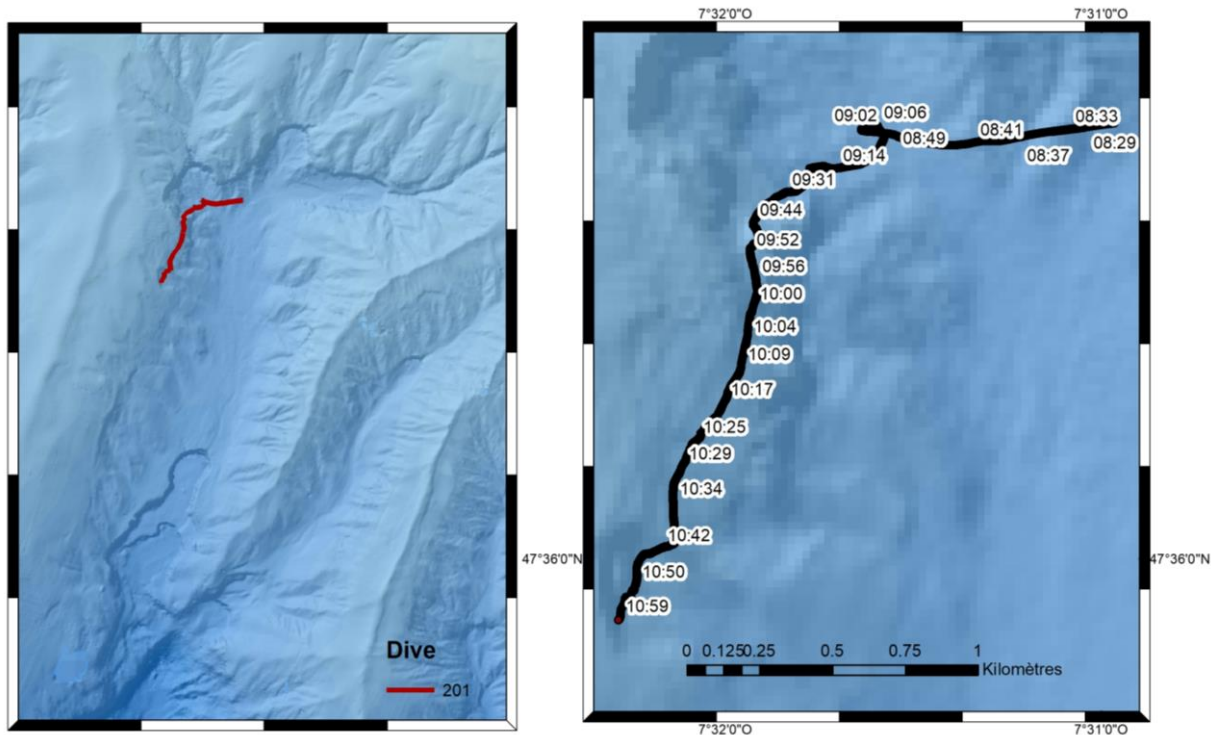
Prospected locations **Canyon de Lampaul**

6.4.1. Objectives

Exploration of upper cliff (falaise 1) at an altitude of 3 – 5 m and a speed of 0.5 – 0.7 m/s, sample Lophelia and Madrepora colonies.

6.4.2. Work abstract

- 0 Sample operations
- 0 Measures
- 0 Moorings
- 151 Images



6.4.3. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|-----------------------------------|
| 8/10/21 | 09:14 | Canyon de Lampaul | N 47 36.704 | W 007 31.698 | 1220 | Arrivee au fond, debut de plongee |
| 8/10/21 | 09:15 | Canyon de Lampaul | N 47 36.703 | W 007 31.708 | 1222 | SUBSTRAT DUR ET SEDIMENT |
| 8/10/21 | 09:20 | Canyon de Lampaul | N 47 36.699 | W 007 31.776 | 1190 | anemone et crinoide |
| 8/10/21 | 09:22 | Canyon de Lampaul | N 47 36.683 | W 007 31.765 | 1182 | arrivee sur falaise |
| 8/10/21 | 09:24 | Canyon de Lampaul | N 47 36.679 | W 007 31.775 | 1177 | oursins et anemones |
| 8/10/21 | 09:25 | Canyon de Lampaul | N 47 36.678 | W 007 31.779 | 1170 | SUBSTRAT MEUBLE |
| 8/10/21 | 09:26 | Canyon de Lampaul | N 47 36.673 | W 007 31.791 | 1157 | SUBSTRAT DUR ET SEDIMENT |
| 8/10/21 | 09:29 | Canyon de Lampaul | N 47 36.662 | W 007 31.814 | 1136 | SEDIMENT |
| 8/10/21 | 09:29 | Canyon de Lampaul | N 47 36.662 | W 007 31.817 | 1134 | CORAIL debris |
| 8/10/21 | 09:30 | Canyon de Lampaul | N 47 36.661 | W 007 31.833 | 1128 | arrivee falaise |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---------------------------------|
| 8/10/21 | 09:33 | Canyon de Lampaul | N 47 36.658 | W 007 31.848 | 1100 | CORAIL isole |
| 8/10/21 | 09:33 | Canyon de Lampaul | N 47 36.657 | W 007 31.849 | 1096 | haut falaise |
| 8/10/21 | 09:33 | Canyon de Lampaul | N 47 36.657 | W 007 31.850 | 1094 | SUBSRAT MEUBLE |
| 8/10/21 | 09:35 | Canyon de Lampaul | N 47 36.651 | W 007 31.866 | 1083 | SUBSTRAT DUR ET SEDIMENT |
| 8/10/21 | 09:35 | Canyon de Lampaul | N 47 36.649 | W 007 31.870 | 1083 | oursin et anemone |
| 8/10/21 | 09:36 | Canyon de Lampaul | N 47 36.647 | W 007 31.873 | 1078 | crinoide |
| 8/10/21 | 09:37 | Canyon de Lampaul | N 47 36.644 | W 007 31.879 | 1072 | CORAIL isole vivant, debris |
| 8/10/21 | 09:37 | Canyon de Lampaul | N 47 36.641 | W 007 31.886 | 1066 | CORAIL isole vivant |
| 8/10/21 | 09:38 | Canyon de Lampaul | N 47 36.638 | W 007 31.893 | 1060 | oursin cidaris |
| 8/10/21 | 09:38 | Canyon de Lampaul | N 47 36.636 | W 007 31.896 | 1055 | CORAIL isole vivant |
| 8/10/21 | 09:39 | Canyon de Lampaul | N 47 36.635 | W 007 31.898 | 1050 | CORAIL isole vivant |
| 8/10/21 | 09:39 | Canyon de Lampaul | N 47 36.630 | W 007 31.905 | 1045 | crinoide |
| 8/10/21 | 09:40 | Canyon de Lampaul | N 47 36.623 | W 007 31.913 | 1034 | CORAIL peu dense vivant et mort |
| 8/10/21 | 09:41 | Canyon de Lampaul | N 47 36.617 | W 007 31.918 | 1027 | CORAIL isole vivant |
| 8/10/21 | 09:41 | Canyon de Lampaul | N 47 36.616 | W 007 31.918 | 1024 | arrivee falaise |
| 8/10/21 | 09:41 | Canyon de Lampaul | N 47 36.615 | W 007 31.919 | 1022 | CORAIL peu dense vivant et mort |
| 8/10/21 | 09:43 | Canyon de Lampaul | N 47 36.611 | W 007 31.923 | 998 | CORAIL isole vivant |
| 8/10/21 | 09:43 | Canyon de Lampaul | N 47 36.607 | W 007 31.925 | 991 | CORAIL isole vivant |
| 8/10/21 | 09:44 | Canyon de Lampaul | N 47 36.604 | W 007 31.927 | 985 | CORAIL peu dense vivant et mort |
| 8/10/21 | 09:44 | Canyon de Lampaul | N 47 36.602 | W 007 31.927 | 979 | CORAIL peu dense vivant |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|-----------------------------------|
| 8/10/21 | 09:44 | Canyon de Lampaul | N 47 36.601 | W 007 31.925 | 976 | haut falaise |
| 8/10/21 | 09:45 | Canyon de Lampaul | N 47 36.600 | W 007 31.924 | 975 | antipathaire |
| 8/10/21 | 09:45 | Canyon de Lampaul | N 47 36.597 | W 007 31.921 | 971 | eponge |
| 8/10/21 | 09:45 | Canyon de Lampaul | N 47 36.595 | W 007 31.919 | 969 | CORAIL peu dense vivant |
| 8/10/21 | 09:45 | Canyon de Lampaul | N 47 36.592 | W 007 31.917 | 966 | CORAIL peu dense vivant et mort |
| 8/10/21 | 09:46 | Canyon de Lampaul | N 47 36.590 | W 007 31.916 | 962 | SUBSTRAT DUR ET SEDIMENT |
| 8/10/21 | 09:46 | Canyon de Lampaul | N 47 36.585 | W 007 31.914 | 960 | CORAIL isole vivant |
| 8/10/21 | 09:47 | Canyon de Lampaul | N 47 36.581 | W 007 31.914 | 957 | SUBSTRAT MEUBLE |
| 8/10/21 | 09:47 | Canyon de Lampaul | N 47 36.575 | W 007 31.910 | 956 | CORAIL isole vivant |
| 8/10/21 | 09:48 | Canyon de Lampaul | N 47 36.571 | W 007 31.910 | 955 | rebord haut falaise |
| 8/10/21 | 09:48 | Canyon de Lampaul | N 47 36.569 | W 007 31.912 | 959 | CORAIL isole viavnt |
| 8/10/21 | 09:48 | Canyon de Lampaul | N 47 36.569 | W 007 31.917 | 957 | CORAIL peu dense vivant |
| 8/10/21 | 09:49 | Canyon de Lampaul | N 47 36.568 | W 007 31.924 | 955 | CORAIL peu dense vivant |
| 8/10/21 | 09:49 | Canyon de Lampaul | N 47 36.567 | W 007 31.926 | 955 | CORAIL dense vivant et mort |
| 8/10/21 | 09:50 | Canyon de Lampaul | N 47 36.566 | W 007 31.927 | 951 | CORAIL dense vivant et mort |
| 8/10/21 | 09:50 | Canyon de Lampaul | N 47 36.564 | W 007 31.927 | 947 | CORAIL dense vivant et mort |
| 8/10/21 | 09:50 | Canyon de Lampaul | N 47 36.563 | W 007 31.929 | 945 | SUBSTRAT MEUBLE |
| 8/10/21 | 09:50 | Canyon de Lampaul | N 47 36.560 | W 007 31.933 | 943 | CORAIL peu dense vivant |
| 8/10/21 | 09:51 | Canyon de Lampaul | N 47 36.557 | W 007 31.936 | 940 | CORAIL dense vivant et mort |
| 8/10/21 | 09:52 | Canyon de Lampaul | N 47 36.551 | W 007 31.935 | 935 | CORAIL peu dense vivant et debris |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---------------------------------|
| 8/10/21 | 09:52 | Canyon de Lampaul | N 47 36.547 | W 007 31.934 | 933 | PLEINE EAU |
| 8/10/21 | 09:53 | Canyon de Lampaul | N 47 36.537 | W 007 31.930 | 945 | fond en vue |
| 8/10/21 | 09:53 | Canyon de Lampaul | N 47 36.536 | W 007 31.930 | 949 | SUBSTRAT DUR ET SEDIMENT |
| 8/10/21 | 09:54 | Canyon de Lampaul | N 47 36.530 | W 007 31.928 | 949 | CORAIL isole vivant |
| 8/10/21 | 09:54 | Canyon de Lampaul | N 47 36.528 | W 007 31.927 | 953 | CORAIL peu dense vivant et mort |
| 8/10/21 | 09:55 | Canyon de Lampaul | N 47 36.525 | W 007 31.925 | 950 | CORAIL peu dense vivant et mort |
| 8/10/21 | 09:55 | Canyon de Lampaul | N 47 36.518 | W 007 31.923 | 952 | CORAIL peu dense vivant et mort |
| 8/10/21 | 09:55 | Canyon de Lampaul | N 47 36.517 | W 007 31.923 | 953 | CORAIL dense vivant et mort |
| 8/10/21 | 09:55 | Canyon de Lampaul | N 47 36.513 | W 007 31.922 | 953 | SUBSTRAT MEUBLE |
| 8/10/21 | 09:56 | Canyon de Lampaul | N 47 36.501 | W 007 31.919 | 958 | rebord falaise |
| 8/10/21 | 09:56 | Canyon de Lampaul | N 47 36.499 | W 007 31.919 | 958 | PLEINE EAU |
| 8/10/21 | 09:57 | Canyon de Lampaul | N 47 36.488 | W 007 31.917 | 971 | falaise en vue a droite |
| 8/10/21 | 09:58 | Canyon de Lampaul | N 47 36.475 | W 007 31.917 | 975 | SUBSTRAT DUR ET SEDIMENT |
| 8/10/21 | 09:58 | Canyon de Lampaul | N 47 36.474 | W 007 31.918 | 978 | CORAIL peu dense vivant |
| 8/10/21 | 09:59 | Canyon de Lampaul | N 47 36.472 | W 007 31.918 | 976 | CORAIL peu dense vivant |
| 8/10/21 | 09:59 | Canyon de Lampaul | N 47 36.462 | W 007 31.923 | 977 | SUBSTRAT DUR |
| 8/10/21 | 10:00 | Canyon de Lampaul | N 47 36.453 | W 007 31.927 | 978 | falaise |
| 8/10/21 | 10:01 | Canyon de Lampaul | N 47 36.447 | W 007 31.929 | 978 | CORAIL isole |
| 8/10/21 | 10:01 | Canyon de Lampaul | N 47 36.441 | W 007 31.934 | 975 | CORAIL peu dense sur falaise |
| 8/10/21 | 10:02 | Canyon de Lampaul | N 47 36.434 | W 007 31.936 | 972 | DECHET diverss |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--------------------------------------|
| 8/10/21 | 10:03 | Canyon de Lampaul | N 47 36.425 | W 007 31.938 | 972 | suivi falaise |
| 8/10/21 | 10:03 | Canyon de Lampaul | N 47 36.418 | W 007 31.940 | 969 | changement de quart, julie et karine |
| 8/10/21 | 10:04 | Canyon de Lampaul | N 47 36.404 | W 007 31.941 | 971 | SUBSTRAT MEUBLE |
| 8/10/21 | 10:04 | Canyon de Lampaul | N 47 36.398 | W 007 31.942 | 969 | CORAIL peu dense |
| 8/10/21 | 10:05 | Canyon de Lampaul | N 47 36.393 | W 007 31.944 | 969 | CORAIL peu dense |
| 8/10/21 | 10:05 | Canyon de Lampaul | N 47 36.387 | W 007 31.946 | 965 | CORAIL peu dense sur haut de falaise |
| 8/10/21 | 10:05 | Canyon de Lampaul | N 47 36.381 | W 007 31.949 | 966 | CORAIL vivant et mort peu dense |
| 8/10/21 | 10:06 | Canyon de Lampaul | N 47 36.373 | W 007 31.951 | 968 | CORAIL peu dense |
| 8/10/21 | 10:07 | Canyon de Lampaul | N 47 36.360 | W 007 31.956 | 970 | CORAIL isole |
| 8/10/21 | 10:08 | Canyon de Lampaul | N 47 36.354 | W 007 31.957 | 972 | descente falaise |
| 8/10/21 | 10:08 | Canyon de Lampaul | N 47 36.350 | W 007 31.958 | 972 | PLEINE EAU |
| 8/10/21 | 10:08 | Canyon de Lampaul | N 47 36.347 | W 007 31.959 | 977 | fond |
| 8/10/21 | 10:08 | Canyon de Lampaul | N 47 36.345 | W 007 31.959 | 979 | SUBSTRAT DUR et SEDIMENTS |
| 8/10/21 | 10:09 | Canyon de Lampaul | N 47 36.341 | W 007 31.961 | 988 | CORAIL isole |
| 8/10/21 | 10:10 | Canyon de Lampaul | N 47 36.338 | W 007 31.962 | 987 | SUBSTRAT MEUBLE |
| 8/10/21 | 10:10 | Canyon de Lampaul | N 47 36.336 | W 007 31.963 | 987 | oursins |
| 8/10/21 | 10:12 | Canyon de Lampaul | N 47 36.320 | W 007 31.977 | 982 | oursins |
| 8/10/21 | 10:13 | Canyon de Lampaul | N 47 36.316 | W 007 31.982 | 982 | SUBSTRAT MEUBLE |
| 8/10/21 | 10:13 | Canyon de Lampaul | N 47 36.315 | W 007 31.983 | 983 | remontee en pente douce |
| 8/10/21 | 10:14 | Canyon de Lampaul | N 47 36.300 | W 007 31.994 | 984 | CORAIL isole madrepora |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|------------------------------|
| 8/10/21 | 10:15 | Canyon de Lampaul | N 47 36.295 | W 007 31.995 | 982 | oursins |
| 8/10/21 | 10:17 | Canyon de Lampaul | N 47 36.283 | W 007 32.003 | 982 | sediments plus grossiers |
| 8/10/21 | 10:18 | Canyon de Lampaul | N 47 36.271 | W 007 32.012 | 984 | CORAIL isole |
| 8/10/21 | 10:19 | Canyon de Lampaul | N 47 36.262 | W 007 32.019 | 982 | oursins |
| 8/10/21 | 10:19 | Canyon de Lampaul | N 47 36.258 | W 007 32.021 | 983 | ctenophore ? |
| 8/10/21 | 10:21 | Canyon de Lampaul | N 47 36.248 | W 007 32.039 | 977 | oursins |
| 8/10/21 | 10:21 | Canyon de Lampaul | N 47 36.245 | W 007 32.044 | 975 | roche affleurante |
| 8/10/21 | 10:22 | Canyon de Lampaul | N 47 36.228 | W 007 32.062 | 975 | ligne de peche |
| 8/10/21 | 10:23 | Canyon de Lampaul | N 47 36.225 | W 007 32.066 | 970 | PLEINE EAU |
| 8/10/21 | 10:24 | Canyon de Lampaul | N 47 36.224 | W 007 32.067 | 975 | fond, on suit ligne de peche |
| 8/10/21 | 10:24 | Canyon de Lampaul | N 47 36.219 | W 007 32.067 | 975 | bordure de falaise |
| 8/10/21 | 10:25 | Canyon de Lampaul | N 47 36.216 | W 007 32.073 | 972 | CORAIL et filet de peche |
| 8/10/21 | 10:25 | Canyon de Lampaul | N 47 36.212 | W 007 32.078 | 970 | PLEINE EAU |
| 8/10/21 | 10:26 | Canyon de Lampaul | N 47 36.211 | W 007 32.081 | 969 | retour vue falaise |
| 8/10/21 | 10:26 | Canyon de Lampaul | N 47 36.209 | W 007 32.085 | 970 | PLEINE EAU |
| 8/10/21 | 10:27 | Canyon de Lampaul | N 47 36.197 | W 007 32.095 | 980 | fond en vue |
| 8/10/21 | 10:28 | Canyon de Lampaul | N 47 36.193 | W 007 32.097 | 983 | SUBSTRAT DUR et SEDIMENTS |
| 8/10/21 | 10:28 | Canyon de Lampaul | N 47 36.180 | W 007 32.105 | 982 | CORAIL isole |
| 8/10/21 | 10:29 | Canyon de Lampaul | N 47 36.178 | W 007 32.106 | 982 | CORAIL isole |
| 8/10/21 | 10:29 | Canyon de Lampaul | N 47 36.176 | W 007 32.107 | 981 | alcyonnaire |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---------------------------------|
| 8/10/21 | 10:29 | Canyon de Lampaul | N 47 36.171 | W 007 32.112 | 979 | CORAIL isole |
| 8/10/21 | 10:30 | Canyon de Lampaul | N 47 36.162 | W 007 32.118 | 981 | CORAIL ISOLE |
| 8/10/21 | 10:30 | Canyon de Lampaul | N 47 36.159 | W 007 32.119 | 981 | SUBTRAT DUR et SEDIMENTS ++ |
| 8/10/21 | 10:31 | Canyon de Lampaul | N 47 36.132 | W 007 32.139 | 984 | blocs calcaires |
| 8/10/21 | 10:32 | Canyon de Lampaul | N 47 36.121 | W 007 32.140 | 983 | CORAIL isole |
| 8/10/21 | 10:32 | Canyon de Lampaul | N 47 36.118 | W 007 32.140 | 984 | CORAIL peu dense |
| 8/10/21 | 10:33 | Canyon de Lampaul | N 47 36.114 | W 007 32.141 | 981 | eboulis |
| 8/10/21 | 10:33 | Canyon de Lampaul | N 47 36.112 | W 007 32.141 | 980 | CORAIL isole |
| 8/10/21 | 10:33 | Canyon de Lampaul | N 47 36.108 | W 007 32.141 | 984 | CORAIL mort |
| 8/10/21 | 10:35 | Canyon de Lampaul | N 47 36.085 | W 007 32.140 | 986 | CORAIL peu dense rebord falaise |
| 8/10/21 | 10:35 | Canyon de Lampaul | N 47 36.075 | W 007 32.139 | 993 | CORAIL debris fins |
| 8/10/21 | 10:35 | Canyon de Lampaul | N 47 36.075 | W 007 32.139 | 993 | CORAIL mort isole |
| 8/10/21 | 10:36 | Canyon de Lampaul | N 47 36.070 | W 007 32.138 | 991 | CORAIL isoles |
| 8/10/21 | 10:36 | Canyon de Lampaul | N 47 36.064 | W 007 32.138 | 991 | rebord falaise |
| 8/10/21 | 10:37 | Canyon de Lampaul | N 47 36.059 | W 007 32.137 | 993 | CORAIL peu dense vivant et mort |
| 8/10/21 | 10:38 | Canyon de Lampaul | N 47 36.039 | W 007 32.133 | 995 | CORAIL vivent et mort peu dense |
| 8/10/21 | 10:38 | Canyon de Lampaul | N 47 36.034 | W 007 32.130 | 997 | CORAIL peu dense |
| 8/10/21 | 10:39 | Canyon de Lampaul | N 47 36.031 | W 007 32.132 | 995 | CORAIL peu dense |
| 8/10/21 | 10:39 | Canyon de Lampaul | N 47 36.029 | W 007 32.134 | 993 | CORAIL peu dense |
| 8/10/21 | 10:39 | Canyon de Lampaul | N 47 36.027 | W 007 32.137 | 989 | CORAIL vivant peu dense |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---------------------------------------|
| 8/10/21 | 10:40 | Canyon de Lampaul | N 47 36.024 | W 007 32.148 | 986 | CORAIL peu dense |
| 8/10/21 | 10:41 | Canyon de Lampaul | N 47 36.022 | W 007 32.158 | 983 | CORAIL peu dense |
| 8/10/21 | 10:41 | Canyon de Lampaul | N 47 36.021 | W 007 32.162 | 983 | PLEINE EAU |
| 8/10/21 | 10:42 | Canyon de Lampaul | N 47 36.016 | W 007 32.179 | 995 | fond on descend falaise |
| 8/10/21 | 10:43 | Canyon de Lampaul | N 47 36.013 | W 007 32.189 | 998 | SUBSTRAT DUR et SEDIMENT |
| 8/10/21 | 10:44 | Canyon de Lampaul | N 47 36.009 | W 007 32.208 | 998 | rebord falaise |
| 8/10/21 | 10:44 | Canyon de Lampaul | N 47 36.008 | W 007 32.214 | 997 | on redescend encore |
| 8/10/21 | 10:45 | Canyon de Lampaul | N 47 36.005 | W 007 32.220 | 1004 | CORAIL isole |
| 8/10/21 | 10:45 | Canyon de Lampaul | N 47 35.998 | W 007 32.228 | 1002 | blocs calcaires |
| 8/10/21 | 10:46 | Canyon de Lampaul | N 47 35.991 | W 007 32.234 | 1006 | CORAIL mort peu dense sur eboulis |
| 8/10/21 | 10:46 | Canyon de Lampaul | N 47 35.988 | W 007 32.235 | 1008 | CORAIL debris |
| 8/10/21 | 10:48 | Canyon de Lampaul | N 47 35.971 | W 007 32.236 | 1015 | rebord de falaise debris de roches |
| 8/10/21 | 10:50 | Canyon de Lampaul | N 47 35.955 | W 007 32.238 | 1015 | CORAIL isole |
| 8/10/21 | 10:52 | Canyon de Lampaul | N 47 35.937 | W 007 32.251 | 1007 | PLEINE EAU |
| 8/10/21 | 10:53 | Canyon de Lampaul | N 47 35.936 | W 007 32.252 | 1011 | retour au fond |
| 8/10/21 | 10:54 | Canyon de Lampaul | N 47 35.930 | W 007 32.259 | 1010 | oursin |
| 8/10/21 | 10:54 | Canyon de Lampaul | N 47 35.931 | W 007 32.263 | 1008 | SUBSTRAT DUR + CORAIL mort debris |
| 8/10/21 | 10:56 | Canyon de Lampaul | N 47 35.919 | W 007 32.270 | 1009 | CORAIL debris mort isole |
| 8/10/21 | 10:56 | Canyon de Lampaul | N 47 35.908 | W 007 32.278 | 1010 | CORAIL debris mort recouvert sediment |
| 8/10/21 | 10:57 | Canyon de Lampaul | N 47 35.903 | W 007 32.280 | 1012 | CORAIL debris dense et colonie mort |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/10/21 | 10:57 | Canyon de Lampaul | N 47 35.895 | W 007 32.281 | 1013 | CORAIL dense mort debris avec couche sediment |
| 8/10/21 | 11:09 | Canyon de Lampaul | | | | Black Out, FIN de plongée |

6.5. Dive: 202 - 5

Date: **11/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|---|
| 11/08/2021 | 08:00 | Olu Karine, Lartaud Franck, Zbinden Magali, Chemel Mathilde, Pradillon Florence |
| 11/08/2021 | 10:00 | Fabri Marie-Claire, Tourolle Julie, Chemel Mathilde, Karoui Imen |
| 11/08/2021 | 12:00 | Fezzani Ridha, Tourolle Julie, Menot Lénaïck |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

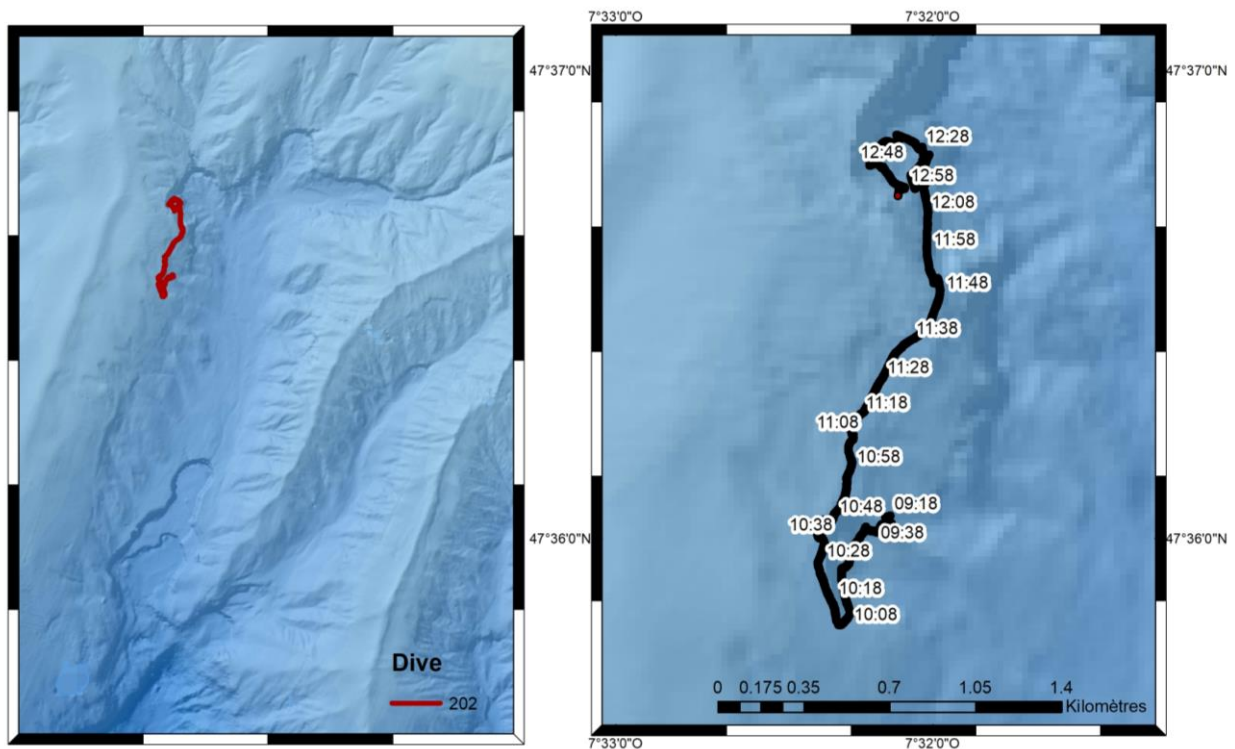
6.5.1. Objectives

Exploration of the right flank of the canyon, sample *Lophelia* and *Madrepora* colonies.

6.5.2. Work abstract

6 Sample operations
0 Measures
0 Moorings
238 Images

6.5.3. Map



6.5.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/11/21 | 09:06 | Canyon de Lampaul | N 47 36.041 | W 007 32.140 | 970 | fond en vue |
| 8/11/21 | 09:07 | Canyon de Lampaul | N 47 36.040 | W 007 32.137 | 976 | sur flanc falaise |
| 8/11/21 | 09:09 | Canyon de Lampaul | N 47 36.034 | W 007 32.140 | 983 | CORAIL |
| 8/11/21 | 09:09 | Canyon de Lampaul | N 47 36.034 | W 007 32.140 | 984 | corail peu dense, colonies vivantes et mortes |
| 8/11/21 | 09:09 | Canyon de Lampaul | N 47 36.035 | W 007 32.139 | 984 | Lophelia |
| 8/11/21 | 09:11 | Canyon de Lampaul | N 47 36.035 | W 007 32.141 | 987 | Lophelia, toutes les colonies semblent en vie |
| 8/11/21 | 09:11 | Canyon de Lampaul | N 47 36.035 | W 007 32.142 | 986 | portion vivante juste au sommet des colonies |
| 8/11/21 | 09:15 | Canyon de Lampaul | N 47 36.045 | W 007 32.139 | 985 | corail isolé sur flanc falaise |
| 8/11/21 | 09:18 | Canyon de Lampaul | N 47 36.045 | W 007 32.144 | 978 | qlq colonies isolées |
| 8/11/21 | 09:19 | Canyon de Lampaul | N 47 36.044 | W 007 32.149 | 977 | densification coraux sur rebord (975m) |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|-------------------------------|
| 8/11/21 | 09:24 | Canyon de Lampaul | N 47 36.032 | W 007 32.131 | 999 | corail mort, peu dense |
| 8/11/21 | 09:25 | Canyon de Lampaul | N 47 36.031 | W 007 32.129 | 999 | qlq colonies vivantes isolées |
| 8/11/21 | 09:26 | Canyon de Lampaul | N 47 36.034 | W 007 32.136 | 997 | corail mort, plus dense |
| 8/11/21 | 09:29 | Canyon de Lampaul | N 47 36.032 | W 007 32.146 | 988 | zone plus dense retrouvée |
| 8/11/21 | 09:29 | Canyon de Lampaul | N 47 36.032 | W 007 32.146 | 987 | point remarquable |
| 8/11/21 | 09:30 | Canyon de Lampaul | N 47 36.031 | W 007 32.148 | 987 | Lophelia dominant |
| 8/11/21 | 09:31 | Canyon de Lampaul | N 47 36.031 | W 007 32.150 | 982 | depart plus haut, sur profil |
| 8/11/21 | 09:33 | Canyon de Lampaul | N 47 36.026 | W 007 32.164 | 974 | CORAIL - colonies eparses |
| 8/11/21 | 09:33 | Canyon de Lampaul | N 47 36.024 | W 007 32.165 | 975 | sedim |
| 8/11/21 | 09:33 | Canyon de Lampaul | N 47 36.023 | W 007 32.166 | 975 | SUBSTRAT meuble |
| 8/11/21 | 09:33 | Canyon de Lampaul | N 47 36.020 | W 007 32.168 | 976 | CORAIL surépoeron |
| 8/11/21 | 09:34 | Canyon de Lampaul | N 47 36.018 | W 007 32.169 | 976 | plume de mer |
| 8/11/21 | 09:34 | Canyon de Lampaul | N 47 36.016 | W 007 32.170 | 978 | CORAIL peu dense |
| 8/11/21 | 09:36 | Canyon de Lampaul | N 47 36.012 | W 007 32.175 | 988 | pente avec vase |
| 8/11/21 | 09:36 | Canyon de Lampaul | N 47 36.012 | W 007 32.177 | 988 | corail mort (tombés) |
| 8/11/21 | 09:36 | Canyon de Lampaul | N 47 36.013 | W 007 32.179 | 986 | Corail sur reobrd |
| 8/11/21 | 09:37 | Canyon de Lampaul | N 47 36.015 | W 007 32.182 | 980 | colonies vivante peu denses |
| 8/11/21 | 09:39 | Canyon de Lampaul | N 47 36.018 | W 007 32.206 | 973 | huitres + corail mort |
| 8/11/21 | 09:39 | Canyon de Lampaul | N 47 36.021 | W 007 32.210 | 970 | qlq colonies vivantes |
| 8/11/21 | 09:39 | Canyon de Lampaul | N 47 36.022 | W 007 32.211 | 969 | Lophelia + huites |
| 8/11/21 | 09:39 | Canyon de | N 47 | W 007 | 968 | Colonies dense |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 36.023 | 32.211 | | |
| 8/11/21 | 09:40 | Canyon de Lampaul | N 47 36.023 | W 007 32.211 | 968 | casse colonie |
| 8/11/21 | 09:41 | Canyon de Lampaul | N 47 36.021 | W 007 32.211 | 966 | plein eau |
| 8/11/21 | 09:44 | Canyon de Lampaul | N 47 36.010 | W 007 32.220 | 986 | retour sur profil |
| 8/11/21 | 09:44 | Canyon de Lampaul | N 47 36.000 | W 007 32.231 | 996 | debris coraux |
| 8/11/21 | 09:47 | Canyon de Lampaul | N 47 35.978 | W 007 32.254 | 990 | substrat meuble et debris |
| 8/11/21 | 09:49 | Canyon de Lampaul | N 47 35.957 | W 007 32.261 | 993 | CORAIL debris et substrat |
| 8/11/21 | 09:49 | Canyon de Lampaul | N 47 35.953 | W 007 32.262 | 993 | CORAIL mort dense vivant tres peu dense |
| 8/11/21 | 09:49 | Canyon de Lampaul | N 47 35.951 | W 007 32.262 | 995 | CORAIL vivant peu dense |
| 8/11/21 | 09:50 | Canyon de Lampaul | N 47 35.950 | W 007 32.262 | 995 | CORAIL vivant peu dense et pmort dense |
| 8/11/21 | 09:50 | Canyon de Lampaul | N 47 35.947 | W 007 32.263 | 994 | CORAIL vivant peu dense |
| 8/11/21 | 09:50 | Canyon de Lampaul | N 47 35.945 | W 007 32.264 | 991 | CORAIL peu dense sur falaise en escaliers |
| 8/11/21 | 09:51 | Canyon de Lampaul | N 47 35.944 | W 007 32.265 | 989 | CORAIL peu dense lophelia |
| 8/11/21 | 09:51 | Canyon de Lampaul | N 47 35.944 | W 007 32.266 | 987 | CORAIL lophelia peu dense |
| 8/11/21 | 09:51 | Canyon de Lampaul | N 47 35.944 | W 007 32.266 | 985 | Replat |
| 8/11/21 | 09:51 | Canyon de Lampaul | N 47 35.944 | W 007 32.267 | 986 | CORAIL lophelia orange peu dense |
| 8/11/21 | 09:53 | Canyon de Lampaul | N 47 35.941 | W 007 32.272 | 982 | Massif corail perdu sur rebord de falaise aucun corailp |
| 8/11/21 | 09:54 | Canyon de Lampaul | N 47 35.932 | W 007 32.288 | 972 | pleine eaupente forte surb |
| 8/11/21 | 09:56 | Canyon de Lampaul | N 47 35.919 | W 007 32.288 | 993 | strat meuble et echinodermesD |
| 8/11/21 | 09:56 | Canyon de Lampaul | N 47 35.911 | W 007 32.287 | 999 | corail |
| 8/11/21 | 09:57 | Canyon de Lampaul | N 47 35.907 | W 007 32.286 | 999 | debris corail et banc devant |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/11/21 | 09:58 | Canyon de Lampaul | N 47 35.905 | W 007 32.284 | 1003 | CORAIL vivant peu dense et eparse |
| 8/11/21 | 09:59 | Canyon de Lampaul | N 47 35.903 | W 007 32.282 | 1007 | CORAIL vivant et mort |
| 8/11/21 | 09:59 | Canyon de Lampaul | N 47 35.901 | W 007 32.281 | 1007 | substrat meuble sur pente forte |
| 8/11/21 | 09:59 | Canyon de Lampaul | N 47 35.895 | W 007 32.281 | 1006 | debris corail |
| 8/11/21 | 10:00 | Canyon de Lampaul | N 47 35.889 | W 007 32.281 | 1004 | CORAIL vivant eparse |
| 8/11/21 | 10:00 | Canyon de Lampaul | N 47 35.887 | W 007 32.280 | 1005 | CORAIL vivant plus dense et mort |
| 8/11/21 | 10:00 | Canyon de Lampaul | N 47 35.885 | W 007 32.280 | 1006 | CORAIL mort casse assez dense et echinodermes |
| 8/11/21 | 10:01 | Canyon de Lampaul | N 47 35.879 | W 007 32.278 | 1003 | debris corail et colonies eparses vivantes |
| 8/11/21 | 10:01 | Canyon de Lampaul | N 47 35.875 | W 007 32.277 | 1002 | debris corail toujours sur pentes forte |
| 8/11/21 | 10:01 | Canyon de Lampaul | N 47 35.874 | W 007 32.277 | 1001 | pente et croute carbonatee sans aucun corail |
| 8/11/21 | 10:02 | Canyon de Lampaul | N 47 35.868 | W 007 32.274 | 1001 | substrat meuble sans corail |
| 8/11/21 | 10:04 | Canyon de Lampaul | N 47 35.855 | W 007 32.267 | 1003 | substrat meuble sur pente forte |
| 8/11/21 | 10:06 | Canyon de Lampaul | N 47 35.838 | W 007 32.261 | 999 | etoile |
| 8/11/21 | 10:07 | Canyon de Lampaul | N 47 35.830 | W 007 32.267 | 991 | cidaris |
| 8/11/21 | 10:08 | Canyon de Lampaul | N 47 35.826 | W 007 32.272 | 984 | substrat dur carbonate et etoile |
| 8/11/21 | 10:10 | Canyon de Lampaul | N 47 35.816 | W 007 32.286 | 967 | SEDIMENT meuble et pente |
| 8/11/21 | 10:13 | Canyon de Lampaul | N 47 35.818 | W 007 32.297 | 959 | sillon dans sediment |
| 8/11/21 | 10:14 | Canyon de Lampaul | N 47 35.821 | W 007 32.301 | 957 | SEDIMENT MEUBLE |
| 8/11/21 | 10:18 | Canyon de Lampaul | N 47 35.865 | W 007 32.319 | 938 | poisson sebaste |
| 8/11/21 | 10:19 | Canyon de Lampaul | N 47 35.880 | W 007 32.330 | 928 | passage au dessus escarpement |
| 8/11/21 | 10:19 | Canyon de | N 47 | W 007 | 926 | SEDIMENT et oursins |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 35.886 | 32.334 | | |
| 8/11/21 | 10:23 | Canyon de Lampaul | N 47 35.923 | W 007 32.354 | 909 | fine couche SEDIMENT sur substrat dur |
| 8/11/21 | 10:23 | Canyon de Lampaul | N 47 35.928 | W 007 32.357 | 905 | SEDIMENT MEUBLE |
| 8/11/21 | 10:26 | Canyon de Lampaul | N 47 35.948 | W 007 32.362 | 899 | araignee |
| 8/11/21 | 10:27 | Canyon de Lampaul | N 47 35.954 | W 007 32.359 | 899 | SEDIMENT fine couche sur SUBSTRATDU pente |
| 8/11/21 | 10:30 | Canyon de Lampaul | N 47 35.983 | W 007 32.344 | 900 | bordure escarpement |
| 8/11/21 | 10:30 | Canyon de Lampaul | N 47 35.991 | W 007 32.342 | 900 | on longe le sommet de la falaise |
| 8/11/21 | 10:34 | Canyon de Lampaul | N 47 36.001 | W 007 32.351 | 891 | En attente du bateau |
| 8/11/21 | 10:35 | Canyon de Lampaul | N 47 36.001 | W 007 32.351 | 888 | camera science |
| 8/11/21 | 10:35 | Canyon de Lampaul | N 47 36.001 | W 007 32.351 | 889 | deplacement lateral du bateau |
| 8/11/21 | 10:36 | Canyon de Lampaul | N 47 36.000 | W 007 32.353 | 892 | poisson et oursin |
| 8/11/21 | 10:37 | Canyon de Lampaul | N 47 36.001 | W 007 32.354 | 892 | probleme de navigation |
| 8/11/21 | 10:38 | Canyon de Lampaul | N 47 36.001 | W 007 32.357 | 892 | attente |
| 8/11/21 | 10:40 | Canyon de Lampaul | N 47 36.007 | W 007 32.363 | 886 | reprise du profil |
| 8/11/21 | 10:41 | Canyon de Lampaul | N 47 36.016 | W 007 32.365 | 884 | Substrat dur rugueux et sediment |
| 8/11/21 | 10:43 | Canyon de Lampaul | N 47 36.028 | W 007 32.359 | 883 | oursin |
| 8/11/21 | 10:44 | Canyon de Lampaul | N 47 36.034 | W 007 32.350 | 884 | SUBSTRAT meuble et pente |
| 8/11/21 | 10:45 | Canyon de Lampaul | N 47 36.038 | W 007 32.346 | 883 | haut falaise et etoile |
| 8/11/21 | 10:46 | Canyon de Lampaul | N 47 36.037 | W 007 32.333 | 884 | SUBSTRAT meuble |
| 8/11/21 | 10:47 | Canyon de Lampaul | N 47 36.040 | W 007 32.316 | 886 | marche en esclair mar |
| 8/11/21 | 10:48 | Canyon de Lampaul | N 47 36.048 | W 007 32.313 | 889 | che disparaît et SEDIMENT meubleSUBST meuble et |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/11/21 | 10:49 | Canyon de Lampaul | N 47 36.062 | W 007 32.296 | 890 | SUBSTRAT meuble et arrete de falaise |
| 8/11/21 | 10:50 | Canyon de Lampaul | N 47 36.069 | W 007 32.290 | 891 | fine couche SDIMENT meuble sur SUBSTRAT DUR |
| 8/11/21 | 10:51 | Canyon de Lampaul | N 47 36.072 | W 007 32.289 | 892 | SEDIMENT MEUBLE surpente |
| 8/11/21 | 10:51 | Canyon de Lampaul | N 47 36.075 | W 007 32.288 | 891 | poulpe |
| 8/11/21 | 10:51 | Canyon de Lampaul | N 47 36.075 | W 007 32.287 | 893 | antipathaire |
| 8/11/21 | 10:52 | Canyon de Lampaul | N 47 36.081 | W 007 32.283 | 892 | SEDIMENT meuble et antipathaire |
| 8/11/21 | 10:53 | Canyon de Lampaul | N 47 36.088 | W 007 32.278 | 891 | longe arrete falaise |
| 8/11/21 | 10:53 | Canyon de Lampaul | N 47 36.092 | W 007 32.276 | 892 | CORAIL colonie isolee |
| 8/11/21 | 10:54 | Canyon de Lampaul | N 47 36.096 | W 007 32.275 | 890 | CORAIL peu dense |
| 8/11/21 | 10:54 | Canyon de Lampaul | N 47 36.098 | W 007 32.275 | 888 | CORAIL peu dense vivant et mort sur arrete et antipathaire |
| 8/11/21 | 10:54 | Canyon de Lampaul | N 47 36.102 | W 007 32.273 | 890 | antipathaire |
| 8/11/21 | 10:55 | Canyon de Lampaul | N 47 36.109 | W 007 32.272 | 886 | SUBSTRAT dur et sediment meuble |
| 8/11/21 | 10:55 | Canyon de Lampaul | N 47 36.112 | W 007 32.272 | 889 | antipathaire et colonie morte |
| 8/11/21 | 10:56 | Canyon de Lampaul | N 47 36.125 | W 007 32.272 | 885 | colonies mortes |
| 8/11/21 | 10:56 | Canyon de Lampaul | N 47 36.130 | W 007 32.271 | 881 | reprend le profil SEDIMENT meuble |
| 8/11/21 | 10:58 | Canyon de Lampaul | N 47 36.148 | W 007 32.259 | 886 | SEDIMENT meuble attend la nav bateau |
| 8/11/21 | 11:00 | Canyon de Lampaul | N 47 36.154 | W 007 32.257 | 885 | reprise profil |
| 8/11/21 | 11:00 | Canyon de Lampaul | N 47 36.156 | W 007 32.257 | 885 | Cnidaire |
| 8/11/21 | 11:01 | Canyon de Lampaul | N 47 36.164 | W 007 32.256 | 886 | Substart dur et sediment |
| 8/11/21 | 11:01 | Canyon de Lampaul | N 47 36.167 | W 007 32.257 | 885 | Colonie morte |
| 8/11/21 | 11:02 | Canyon de | N 47 | W 007 | 885 | marche d'escalier |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--------------------------------------|
| | | Lampaul | 36.169 | 32.258 | | |
| 8/11/21 | 11:02 | Canyon de Lampaul | N 47 36.172 | W 007 32.259 | 885 | poisson |
| 8/11/21 | 11:03 | Canyon de Lampaul | N 47 36.179 | W 007 32.262 | 883 | colonie vivante isolee |
| 8/11/21 | 11:06 | Canyon de Lampaul | N 47 36.211 | W 007 32.253 | 877 | |
| 8/11/21 | 11:06 | Canyon de Lampaul | N 47 36.212 | W 007 32.252 | 876 | colonie |
| 8/11/21 | 11:06 | Canyon de Lampaul | N 47 36.213 | W 007 32.251 | 874 | colonie |
| 8/11/21 | 11:06 | Canyon de Lampaul | N 47 36.214 | W 007 32.251 | 873 | colonie |
| 8/11/21 | 11:07 | Canyon de Lampaul | N 47 36.217 | W 007 32.252 | 872 | colonies mortes et vivantes |
| 8/11/21 | 11:09 | Canyon de Lampaul | N 47 36.223 | W 007 32.255 | 876 | colonies mortes |
| 8/11/21 | 11:10 | Canyon de Lampaul | N 47 36.222 | W 007 32.255 | 878 | colonies mortes et vibvantes |
| 8/11/21 | 11:12 | Canyon de Lampaul | N 47 36.236 | W 007 32.265 | 872 | on revient sur le profil |
| 8/11/21 | 11:13 | Canyon de Lampaul | N 47 36.240 | W 007 32.266 | 868 | pleine eau |
| 8/11/21 | 11:14 | Canyon de Lampaul | N 47 36.242 | W 007 32.264 | 871 | antipathaire |
| 8/11/21 | 11:15 | Canyon de Lampaul | N 47 36.247 | W 007 32.255 | 871 | colonie isolee |
| 8/11/21 | 11:16 | Canyon de Lampaul | N 47 36.252 | W 007 32.246 | 871 | pleine eau on descend |
| 8/11/21 | 11:16 | Canyon de Lampaul | N 47 36.256 | W 007 32.243 | 878 | substrat dur et sediment |
| 8/11/21 | 11:17 | Canyon de Lampaul | N 47 36.258 | W 007 32.240 | 880 | cailloux/petit bloc |
| 8/11/21 | 11:18 | Canyon de Lampaul | N 47 36.263 | W 007 32.230 | 884 | on attend le bateau, courant au fond |
| 8/11/21 | 11:19 | Canyon de Lampaul | N 47 36.265 | W 007 32.228 | 886 | colonie morte isolee et cidaris |
| 8/11/21 | 11:21 | Canyon de Lampaul | N 47 36.278 | W 007 32.211 | 889 | petits cailloux |
| 8/11/21 | 11:23 | Canyon de Lampaul | N 47 36.294 | W 007 32.198 | 889 | etoile de mer |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--------------------------------------|
| 8/11/21 | 11:24 | Canyon de Lampaul | N 47 36.304 | W 007 32.190 | 889 | colonie isolee |
| 8/11/21 | 11:25 | Canyon de Lampaul | N 47 36.309 | W 007 32.187 | 891 | colonie morte isolee |
| 8/11/21 | 11:25 | Canyon de Lampaul | N 47 36.315 | W 007 32.182 | 889 | grande pente |
| 8/11/21 | 11:26 | Canyon de Lampaul | N 47 36.319 | W 007 32.179 | 891 | marches d'escalier |
| 8/11/21 | 11:26 | Canyon de Lampaul | N 47 36.322 | W 007 32.177 | 894 | colonie isolee |
| 8/11/21 | 11:27 | Canyon de Lampaul | N 47 36.330 | W 007 32.170 | 893 | flagellum et corail vivant (ophelia) |
| 8/11/21 | 11:27 | Canyon de Lampaul | N 47 36.336 | W 007 32.164 | 894 | colonie isolee mort et vivant |
| 8/11/21 | 11:28 | Canyon de Lampaul | N 47 36.338 | W 007 32.163 | 896 | colonie vivante madrepora |
| 8/11/21 | 11:29 | Canyon de Lampaul | N 47 36.344 | W 007 32.157 | 896 | colonies isolees |
| 8/11/21 | 11:29 | Canyon de Lampaul | N 47 36.346 | W 007 32.156 | 896 | colonies |
| 8/11/21 | 11:30 | Canyon de Lampaul | N 47 36.353 | W 007 32.150 | 895 | petite colonie |
| 8/11/21 | 11:30 | Canyon de Lampaul | N 47 36.355 | W 007 32.149 | 898 | cha,ngement de quart mcf et jt |
| 8/11/21 | 11:31 | Canyon de Lampaul | N 47 36.360 | W 007 32.145 | 897 | oursins |
| 8/11/21 | 11:31 | Canyon de Lampaul | N 47 36.362 | W 007 32.143 | 895 | CORAIL isole vivant |
| 8/11/21 | 11:32 | Canyon de Lampaul | N 47 36.372 | W 007 32.136 | 895 | CORAIL isole |
| 8/11/21 | 11:33 | Canyon de Lampaul | N 47 36.373 | W 007 32.135 | 896 | CORAIL |
| 8/11/21 | 11:33 | Canyon de Lampaul | N 47 36.374 | W 007 32.135 | 895 | CORAIL isole vivant |
| 8/11/21 | 11:33 | Canyon de Lampaul | N 47 36.380 | W 007 32.130 | 895 | CORAIL peu dense mort |
| 8/11/21 | 11:34 | Canyon de Lampaul | N 47 36.392 | W 007 32.121 | 895 | CORAIL isole vivant |
| 8/11/21 | 11:36 | Canyon de Lampaul | N 47 36.402 | W 007 32.106 | 894 | cerianthe |
| 8/11/21 | 11:37 | Canyon de | N 47 | W 007 | 896 | SUBSTRAT DUR et sediment |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|-----------------------------|
| | | Lampaul | 36.416 | 32.084 | | |
| 8/11/21 | 11:37 | Canyon de Lampaul | N 47 36.420 | W 007 32.074 | 897 | blocs calcaires |
| 8/11/21 | 11:38 | Canyon de Lampaul | N 47 36.424 | W 007 32.064 | 894 | CORAIL peu dense vivant |
| 8/11/21 | 11:39 | Canyon de Lampaul | N 47 36.427 | W 007 32.058 | 891 | CORAIL |
| 8/11/21 | 11:41 | Canyon de Lampaul | N 47 36.437 | W 007 32.038 | 892 | fin jardin de coraux |
| 8/11/21 | 11:44 | Canyon de Lampaul | N 47 36.466 | W 007 32.005 | 897 | fin prairie de coraux |
| 8/11/21 | 11:45 | Canyon de Lampaul | N 47 36.467 | W 007 32.004 | 898 | SUBSTRAT MEUBLE |
| 8/11/21 | 11:45 | Canyon de Lampaul | N 47 36.478 | W 007 31.999 | 900 | CORAIL peu dense |
| 8/11/21 | 11:46 | Canyon de Lampaul | N 47 36.485 | W 007 31.994 | 900 | DECHET plastique |
| 8/11/21 | 11:46 | Canyon de Lampaul | N 47 36.491 | W 007 31.991 | 902 | CORAIL peu dense |
| 8/11/21 | 11:46 | Canyon de Lampaul | N 47 36.497 | W 007 31.988 | 905 | fin prairie de coraux |
| 8/11/21 | 11:47 | Canyon de Lampaul | N 47 36.500 | W 007 31.987 | 906 | SUBSTRAT DUR + SEDIMENTS |
| 8/11/21 | 11:47 | Canyon de Lampaul | N 47 36.507 | W 007 31.983 | 905 | gris blocs claires |
| 8/11/21 | 11:47 | Canyon de Lampaul | N 47 36.509 | W 007 31.982 | 905 | cable |
| 8/11/21 | 11:47 | Canyon de Lampaul | N 47 36.513 | W 007 31.979 | 904 | CORAIL dense |
| 8/11/21 | 11:48 | Canyon de Lampaul | N 47 36.518 | W 007 31.978 | 905 | cable |
| 8/11/21 | 11:48 | Canyon de Lampaul | N 47 36.532 | W 007 31.976 | 903 | CORAIL dense mort et vivant |
| 8/11/21 | 11:49 | Canyon de Lampaul | N 47 36.544 | W 007 31.980 | 902 | CORAIL mort ++ et vivant |
| 8/11/21 | 11:51 | Canyon de Lampaul | N 47 36.555 | W 007 31.985 | 901 | CORAIL |
| 8/11/21 | 11:52 | Canyon de Lampaul | N 47 36.546 | W 007 31.996 | 897 | CORAIL mort |
| 8/11/21 | 11:53 | Canyon de Lampaul | N 47 36.548 | W 007 31.995 | 896 | CORAIL mort ++et vivant |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|------------------------------|
| 8/11/21 | 11:54 | Canyon de Lampaul | N 47 36.560 | W 007 32.002 | 895 | CORAIL dense mort |
| 8/11/21 | 11:55 | Canyon de Lampaul | N 47 36.578 | W 007 32.012 | 891 | dechet DIVERS |
| 8/11/21 | 11:56 | Canyon de Lampaul | N 47 36.581 | W 007 32.012 | 892 | CORAIL DENSE mort |
| 8/11/21 | 11:56 | Canyon de Lampaul | N 47 36.590 | W 007 32.013 | 895 | CORAIL sur le rebord |
| 8/11/21 | 11:57 | Canyon de Lampaul | N 47 36.600 | W 007 32.016 | 893 | falaise |
| 8/11/21 | 11:57 | Canyon de Lampaul | N 47 36.609 | W 007 32.018 | 893 | antipathaire |
| 8/11/21 | 11:58 | Canyon de Lampaul | N 47 36.620 | W 007 32.019 | 889 | falaise de craie |
| 8/11/21 | 11:59 | Canyon de Lampaul | N 47 36.634 | W 007 32.018 | 883 | CORAIL peu dense mort |
| 8/11/21 | 12:00 | Canyon de Lampaul | N 47 36.647 | W 007 32.018 | 883 | CORAIL isole vivant |
| 8/11/21 | 12:01 | Canyon de Lampaul | N 47 36.672 | W 007 32.016 | 877 | DECHET divers |
| 8/11/21 | 12:02 | Canyon de Lampaul | N 47 36.675 | W 007 32.016 | 876 | CORAIL vivant et mort |
| 8/11/21 | 12:02 | Canyon de Lampaul | N 47 36.679 | W 007 32.016 | 876 | CORAIL peu dense |
| 8/11/21 | 12:02 | Canyon de Lampaul | N 47 36.685 | W 007 32.016 | 877 | CORAIL |
| 8/11/21 | 12:02 | Canyon de Lampaul | N 47 36.688 | W 007 32.015 | 877 | CORAIL dense vivant et mort |
| 8/11/21 | 12:03 | Canyon de Lampaul | N 47 36.700 | W 007 32.015 | 880 | DECHET plastique |
| 8/11/21 | 12:04 | Canyon de Lampaul | N 47 36.706 | W 007 32.016 | 881 | SUBSTRAT meuble |
| 8/11/21 | 12:04 | Canyon de Lampaul | N 47 36.714 | W 007 32.018 | 883 | oursins |
| 8/11/21 | 12:05 | Canyon de Lampaul | N 47 36.716 | W 007 32.018 | 881 | CORAIL isole |
| 8/11/21 | 12:05 | Canyon de Lampaul | N 47 36.731 | W 007 32.023 | 881 | CORAIL peu dense |
| 8/11/21 | 12:06 | Canyon de Lampaul | N 47 36.745 | W 007 32.028 | 878 | on redescend vers plateforme |
| 8/11/21 | 12:06 | Canyon de | N 47 | W 007 | 882 | CORAIL |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 36.751 | 32.029 | | |
| 8/11/21 | 12:07 | Canyon de Lampaul | N 47 36.756 | W 007 32.027 | 884 | CORAIL dense vivant |
| 8/11/21 | 12:08 | Canyon de Lampaul | N 47 36.756 | W 007 32.026 | 884 | CORAIL dense vivant et mort |
| 8/11/21 | 12:09 | Canyon de Lampaul | N 47 36.763 | W 007 32.032 | 881 | on descend encore en longeant la falaise |
| 8/11/21 | 12:10 | Canyon de Lampaul | N 47 36.763 | W 007 32.035 | 883 | CORAIL dense |
| 8/11/21 | 12:10 | Canyon de Lampaul | N 47 36.763 | W 007 32.038 | 885 | DECHET peche |
| 8/11/21 | 12:11 | Canyon de Lampaul | N 47 36.749 | W 007 32.057 | 888 | PLEINE EAU |
| 8/11/21 | 12:13 | Canyon de Lampaul | N 47 36.778 | W 007 32.066 | 911 | on se deplace en pleine eau vers point 7 pour revenir par l'autre sens |
| 8/11/21 | 12:24 | Canyon de Lampaul | N 47 36.805 | W 007 32.026 | 1010 | fond en vue |
| 8/11/21 | 12:25 | Canyon de Lampaul | N 47 36.812 | W 007 32.025 | 1009 | SUBSTRAT DUR et sediments |
| 8/11/21 | 12:26 | Canyon de Lampaul | N 47 36.815 | W 007 32.029 | 1006 | on est sur la plateforme sediments ++ |
| 8/11/21 | 12:28 | Canyon de Lampaul | N 47 36.832 | W 007 32.043 | 996 | plateforme recouverte de sediments |
| 8/11/21 | 12:28 | Canyon de Lampaul | N 47 36.840 | W 007 32.052 | 995 | SUBSTRAT Meuble |
| 8/11/21 | 12:30 | Canyon de Lampaul | N 47 36.847 | W 007 32.063 | 987 | on se dirige vers la falaise |
| 8/11/21 | 12:31 | Canyon de Lampaul | N 47 36.855 | W 007 32.090 | 973 | blocs calcaires |
| 8/11/21 | 12:32 | Canyon de Lampaul | N 47 36.860 | W 007 32.106 | 966 | encore des blocs |
| 8/11/21 | 12:36 | Canyon de Lampaul | N 47 36.853 | W 007 32.102 | 957 | PLEINE EAU on attend que le lest se positionne au dessus du hrov |
| 8/11/21 | 12:37 | Canyon de Lampaul | N 47 36.845 | W 007 32.129 | 957 | fond en vue |
| 8/11/21 | 12:37 | Canyon de Lampaul | N 47 36.846 | W 007 32.135 | 957 | gros blocs calcaires recouverts de sediments |
| 8/11/21 | 12:38 | Canyon de Lampaul | N 47 36.848 | W 007 32.146 | 951 | on se deplace pour longer la falaise |
| 8/11/21 | 12:39 | Canyon de Lampaul | N 47 36.845 | W 007 32.155 | 947 | CORAIL debris |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/11/21 | 12:40 | Canyon de Lampaul | N 47 36.839 | W 007 32.163 | 938 | CORAIL mort peu dense |
| 8/11/21 | 12:40 | Canyon de Lampaul | N 47 36.837 | W 007 32.165 | 938 | CORAIL mort |
| 8/11/21 | 12:41 | Canyon de Lampaul | N 47 36.831 | W 007 32.167 | 932 | CORAIL isole vivant |
| 8/11/21 | 12:42 | Canyon de Lampaul | N 47 36.818 | W 007 32.175 | 923 | CORAIL dense mort |
| 8/11/21 | 12:42 | Canyon de Lampaul | N 47 36.815 | W 007 32.178 | 923 | falaise |
| 8/11/21 | 12:44 | Canyon de Lampaul | N 47 36.803 | W 007 32.197 | 894 | mur d'huitres |
| 8/11/21 | 12:45 | Canyon de Lampaul | N 47 36.801 | W 007 32.198 | 884 | mur d'huitres avec CORAIL vivant |
| 8/11/21 | 12:49 | Canyon de Lampaul | N 47 36.801 | W 007 32.183 | 861 | PLEINE EAU on retourne vers zone a prelevement |
| 8/11/21 | 12:55 | Canyon de Lampaul | N 47 36.757 | W 007 32.117 | 895 | fond |
| 8/11/21 | 12:56 | Canyon de Lampaul | N 47 36.751 | W 007 32.097 | 895 | PLEINE EAU encore |
| 8/11/21 | 12:58 | Canyon de Lampaul | N 47 36.747 | W 007 32.095 | 895 | on arrive sur le point |
| 8/11/21 | 13:00 | Canyon de Lampaul | N 47 36.743 | W 007 32.090 | 895 | CORAIL sur rebord falaise |
| 8/11/21 | 13:01 | Canyon de Lampaul | N 47 36.742 | W 007 32.092 | 887 | CORAIL dense mort |
| 8/11/21 | 13:02 | Canyon de Lampaul | N 47 36.743 | W 007 32.094 | 889 | mise en position pour prelevement |
| 8/11/21 | 13:03 | Canyon de Lampaul | N 47 36.750 | W 007 32.105 | 888 | on se positionne |
| 8/11/21 | 13:08 | Canyon de Lampaul | N 47 36.744 | W 007 32.094 | 886 | debut PRELEVEMEN CB-B-01 lophelia |
| 8/11/21 | 13:11 | Canyon de Lampaul | N 47 36.737 | W 007 32.087 | 886 | fin prelevement |
| 8/11/21 | 13:12 | Canyon de Lampaul | N 47 36.736 | W 007 32.086 | 885 | on se positionne pour 2eme prelevement |
| 8/11/21 | 13:12 | Canyon de Lampaul | N 47 36.736 | W 007 32.086 | 885 | debut PRELEVEMEN PANIER madrepora |
| 8/11/21 | 13:14 | Canyon de Lampaul | N 47 36.738 | W 007 32.087 | 885 | echantillon tombe au dessus apn |
| 8/11/21 | 13:16 | Canyon de | N 47 | W 007 | 885 | debut PRELEVEMEN madrepora CB-D- |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|----------------------|----------------|-----------------|----------|---------------------------------------|
| | | Lampaul | 36.739 | 32.088 | | 01 |
| 8/11/21 | 13:19 | Canyon de Lampaul | N 47 36.740 | W 007 32.089 | 885 | pas le temps pour dernier prelevement |
| 8/11/21 | 13:20 | Canyon de Lampaul | N 47 36.741 | W 007 32.088 | 879 | Fin de plongee |

6.6. Dive: 203 - 6

Date: **12/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|---|
| 12/08/2021 | 08:00 | Lartaud Franck, Tourolle Julie, Chemel Mathilde |
| 12/08/2021 | 10:00 | Olu Karine, Fabri Marie-Claire, Chemel Mathilde |
| 12/08/2021 | 12:00 | Fabri Marie-Claire, Zbinden Magali |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

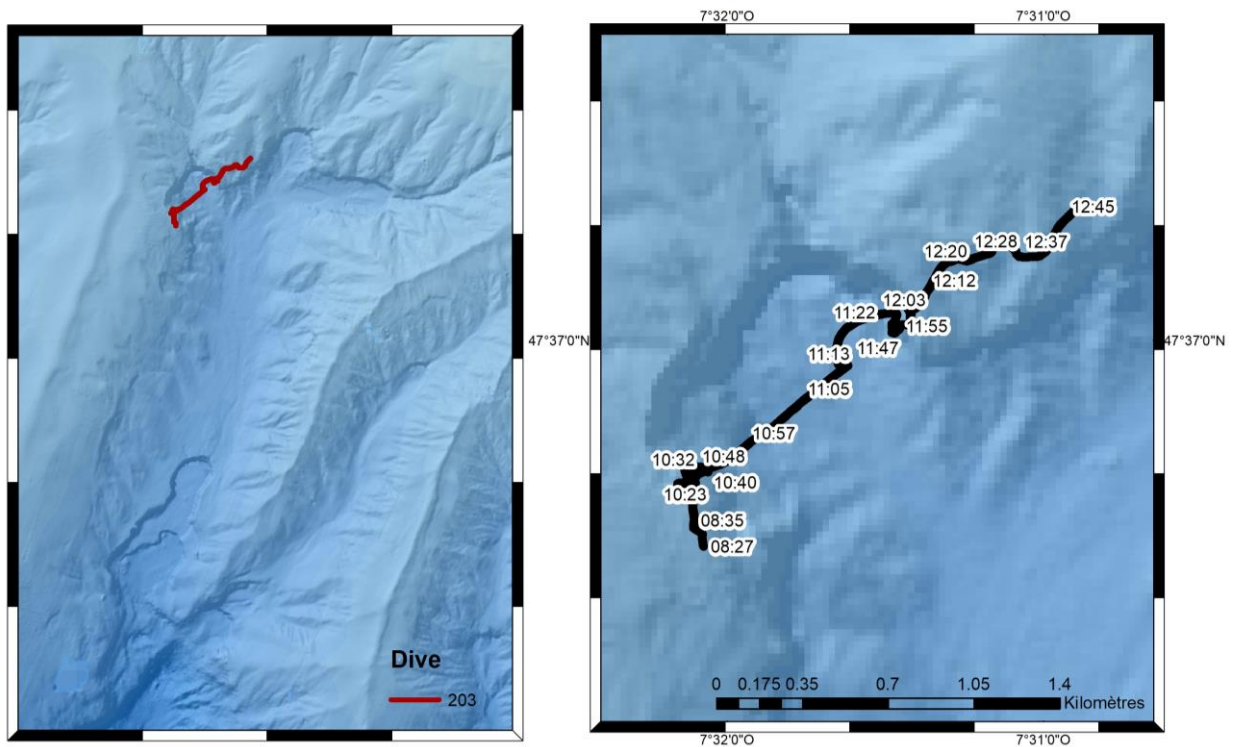
6.6.1. Objectives

Exploration of the right flank of the canyon, sample Lophelia and Madrepora colonies.

6.6.2. Work abstract

- 5 Sample operations
- 0 Measures
- 0 Moorings
- 142 Images

6.6.3. Map



6.6.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--------------------------------|
| 8/12/21 | 08:11 | Canyon de Lampaul | N 47 36.618 | W 007 31.931 | 776 | sortie pour pesee ROV |
| 8/12/21 | 08:20 | Canyon de Lampaul | N 47 36.578 | W 007 31.981 | 787 | pesee OK, cap sur zone travail |
| 8/12/21 | 08:25 | Canyon de Lampaul | N 47 36.547 | W 007 32.047 | 795 | fond a 50m (= 850m) |
| 8/12/21 | 08:27 | Canyon de Lampaul | N 47 36.561 | W 007 32.077 | 816 | fond en vue |
| 8/12/21 | 08:27 | Canyon de Lampaul | N 47 36.565 | W 007 32.078 | 820 | enregistrement video lance |
| 8/12/21 | 08:28 | Canyon de Lampaul | N 47 36.567 | W 007 32.078 | 821 | tres riche en poissons |
| 8/12/21 | 08:28 | Canyon de Lampaul | N 47 36.570 | W 007 32.078 | 821 | CORAIL |
| 8/12/21 | 08:28 | Canyon de Lampaul | N 47 36.571 | W 007 32.078 | 820 | colonies eparses, vivantes |
| 8/12/21 | 08:29 | Canyon de Lampaul | N 47 36.579 | W 007 32.080 | 819 | Callogorgia ? |
| 8/12/21 | 08:30 | Canyon de Lampaul | N 47 36.583 | W 007 32.079 | 819 | Petits Lophelia |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/12/21 | 08:30 | Canyon de Lampaul | N 47 36.587 | W 007 32.081 | 817 | colonies mortes peu denses, qlq vivantes |
| 8/12/21 | 08:34 | Canyon de Lampaul | N 47 36.614 | W 007 32.104 | 801 | tres sedimente, faible ratio vivant/mort coraux |
| 8/12/21 | 08:37 | Canyon de Lampaul | N 47 36.648 | W 007 32.110 | 796 | nb colonies mortes, pente env. 15° |
| 8/12/21 | 08:38 | Canyon de Lampaul | N 47 36.653 | W 007 32.109 | 796 | moins de colonies |
| 8/12/21 | 08:38 | Canyon de Lampaul | N 47 36.658 | W 007 32.108 | 797 | reprise de la pente |
| 8/12/21 | 08:39 | Canyon de Lampaul | N 47 36.664 | W 007 32.107 | 797 | CORAIL sur flanc falaise |
| 8/12/21 | 08:40 | Canyon de Lampaul | N 47 36.674 | W 007 32.109 | 799 | petits madrepora sommet |
| 8/12/21 | 08:40 | Canyon de Lampaul | N 47 36.674 | W 007 32.109 | 801 | Lopheia + huitressur falaise |
| 8/12/21 | 08:42 | Canyon de Lampaul | N 47 36.680 | W 007 32.110 | 800 | Lophelia plus nombreux (colonies peu denses) |
| 8/12/21 | 08:45 | Canyon de Lampaul | N 47 36.687 | W 007 32.113 | 803 | forte densite huites |
| 8/12/21 | 08:45 | Canyon de Lampaul | N 47 36.687 | W 007 32.114 | 804 | colonies debnses au pied bord falaise huitres |
| 8/12/21 | 08:47 | Canyon de Lampaul | N 47 36.693 | W 007 32.115 | 800 | point remarquabe Lophelia 2 |
| 8/12/21 | 08:48 | Canyon de Lampaul | N 47 36.700 | W 007 32.117 | 800 | 800 m |
| 8/12/21 | 08:49 | Canyon de Lampaul | N 47 36.701 | W 007 32.115 | 803 | colonies denses mais ratio mort/vivant faible |
| 8/12/21 | 08:54 | Canyon de Lampaul | N 47 36.708 | W 007 32.124 | 795 | augmentation de la densité en colonies |
| 8/12/21 | 08:54 | Canyon de Lampaul | N 47 36.709 | W 007 32.125 | 795 | Lophelia vivant |
| 8/12/21 | 08:56 | Canyon de Lampaul | N 47 36.712 | W 007 32.131 | 794 | bulle de ??? |
| 8/12/21 | 08:58 | Canyon de Lampaul | N 47 36.716 | W 007 32.132 | 807 | nb debris colonies cassées de falaise |
| 8/12/21 | 09:01 | Canyon de Lampaul | N 47 36.723 | W 007 32.134 | 826 | moins de coraux, surtout des morts |
| 8/12/21 | 09:03 | Canyon de Lampaul | N 47 36.729 | W 007 32.131 | 843 | colonies peu denses, mortes |
| 8/12/21 | 09:06 | Canyon de | N 47 | W 007 | 859 | densite colonies moyenne, tout mort |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 36.735 | 32.128 | | |
| 8/12/21 | 09:08 | Canyon de Lampaul | N 47 36.733 | W 007 32.122 | 859 | zones denses a colonies mortes sur rupture pente, mais reste tres pentu |
| 8/12/21 | 09:09 | Canyon de Lampaul | N 47 36.730 | W 007 32.112 | 859 | retour vers zone a forte densite (colonies mortes) |
| 8/12/21 | 09:10 | Canyon de Lampaul | N 47 36.728 | W 007 32.107 | 859 | forte acumulation Lophelia (mort) |
| 8/12/21 | 09:11 | Canyon de Lampaul | N 47 36.726 | W 007 32.099 | 859 | DECHET (palangre?) dans Lophelia mort |
| 8/12/21 | 09:12 | Canyon de Lampaul | N 47 36.723 | W 007 32.094 | 859 | nb colonies Lophelia pris dans ligne peche = imact sur ancien recif !!! - sur camera science |
| 8/12/21 | 09:14 | Canyon de Lampaul | N 47 36.720 | W 007 32.083 | 859 | qlq colonies vivantes (camera science) |
| 8/12/21 | 09:15 | Canyon de Lampaul | N 47 36.717 | W 007 32.083 | 849 | palangre |
| 8/12/21 | 09:15 | Canyon de Lampaul | N 47 36.716 | W 007 32.084 | 848 | colonies Lophelia vivantes |
| 8/12/21 | 09:16 | Canyon de Lampaul | N 47 36.716 | W 007 32.086 | 846 | nb ligns pêches |
| 8/12/21 | 09:17 | Canyon de Lampaul | N 47 36.714 | W 007 32.092 | 839 | toujours palangre |
| 8/12/21 | 09:17 | Canyon de Lampaul | N 47 36.714 | W 007 32.092 | 839 | banc d'huitres |
| 8/12/21 | 09:19 | Canyon de Lampaul | N 47 36.705 | W 007 32.103 | 826 | plus dense en corail (debris et colonies mortes) |
| 8/12/21 | 09:20 | Canyon de Lampaul | N 47 36.704 | W 007 32.106 | 821 | forte densite colonies mortes et dervbis |
| 8/12/21 | 09:22 | Canyon de Lampaul | N 47 36.701 | W 007 32.117 | 800 | Lophelia vivant + huites |
| 8/12/21 | 09:24 | Canyon de Lampaul | N 47 36.699 | W 007 32.120 | 794 | zone substrat dur sans corail |
| 8/12/21 | 09:25 | Canyon de Lampaul | N 47 36.698 | W 007 32.125 | 791 | retour sur colonies |
| 8/12/21 | 09:27 | Canyon de Lampaul | N 47 36.694 | W 007 32.140 | 783 | DECHET |
| 8/12/21 | 09:28 | Canyon de Lampaul | N 47 36.694 | W 007 32.142 | 782 | assiette ? |
| 8/12/21 | 09:29 | Canyon de Lampaul | N 47 36.693 | W 007 32.150 | 779 | sommet falaise, moins pente mais plus de sedim |
| 8/12/21 | 09:31 | Canyon de | N 47 | W 007 | 773 | zone plate, sedim meuble |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 36.694 | 32.151 | | |
| 8/12/21 | 09:32 | Canyon de Lampaul | N 47 36.694 | W 007 32.151 | 765 | PLEINE EAU, on retourne sur point prelevement |
| 8/12/21 | 09:36 | Canyon de Lampaul | N 47 36.695 | W 007 32.119 | 744 | 50 m du fond |
| 8/12/21 | 09:40 | Canyon de Lampaul | N 47 36.695 | W 007 32.108 | 789 | fond en vue |
| 8/12/21 | 09:41 | Canyon de Lampaul | N 47 36.694 | W 007 32.112 | 794 | changement de quart arrivee mathilde |
| 8/12/21 | 09:41 | Canyon de Lampaul | N 47 36.695 | W 007 32.116 | 794 | CORAIL dense vivant et mort |
| 8/12/21 | 09:41 | Canyon de Lampaul | N 47 36.695 | W 007 32.117 | 795 | on va se positionner pour prelevement |
| 8/12/21 | 09:43 | Canyon de Lampaul | N 47 36.698 | W 007 32.117 | 800 | CORAIL dense sur falaise d'huitres |
| 8/12/21 | 09:46 | Canyon de Lampaul | N 47 36.700 | W 007 32.117 | 799 | positionnement pour prelevement lophelia |
| 8/12/21 | 09:49 | Canyon de Lampaul | N 47 36.700 | W 007 32.119 | 799 | debut PRELEVEMEN mais tombe dans un filet |
| 8/12/21 | 09:50 | Canyon de Lampaul | N 47 36.700 | W 007 32.119 | 796 | on change de colonie |
| 8/12/21 | 09:51 | Canyon de Lampaul | N 47 36.702 | W 007 32.120 | 799 | onse positionne pour nouvelle tentative |
| 8/12/21 | 09:51 | Canyon de Lampaul | N 47 36.702 | W 007 32.121 | 799 | debut PRELEVEMEN CB-B-01 : Lophelia pertusa |
| 8/12/21 | 09:53 | Canyon de Lampaul | N 47 36.702 | W 007 32.120 | 802 | on se pose pour recuperer prelevement tombe sur rebord |
| 8/12/21 | 09:54 | Canyon de Lampaul | N 47 36.703 | W 007 32.119 | 801 | Echantillon dans CB-B-1 |
| 8/12/21 | 09:55 | Canyon de Lampaul | N 47 36.703 | W 007 32.120 | 801 | on recupere echantillon tombe |
| 8/12/21 | 09:59 | Canyon de Lampaul | N 47 36.703 | W 007 32.121 | 802 | echantillon dans la pince |
| 8/12/21 | 10:00 | Canyon de Lampaul | N 47 36.703 | W 007 32.121 | 802 | echantillon dans CB-B-1 |
| 8/12/21 | 10:04 | Canyon de Lampaul | N 47 36.706 | W 007 32.120 | 802 | Quart Karine et Mathilde |
| 8/12/21 | 10:10 | Canyon de Lampaul | N 47 36.713 | W 007 32.125 | 806 | CORAIL vivant dense Lophelia |
| 8/12/21 | 10:10 | Canyon de Lampaul | N 47 36.712 | W 007 32.125 | 806 | Paromola |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/12/21 | 10:11 | Canyon de Lampaul | N 47 36.713 | W 007 32.125 | 806 | colonie a prelever |
| 8/12/21 | 10:13 | Canyon de Lampaul | N 47 36.713 | W 007 32.125 | 806 | APN stoppe |
| 8/12/21 | 10:13 | Canyon de Lampaul | N 47 36.713 | W 007 32.125 | 806 | colonie a prelever |
| 8/12/21 | 10:14 | Canyon de Lampaul | N 47 36.713 | W 007 32.124 | 806 | PRELEVEMEN CB_C (Lophelia vivant) et CB_A (partie morte de la meme colonie) |
| 8/12/21 | 10:19 | Canyon de Lampaul | N 47 36.712 | W 007 32.124 | 807 | vue generale du site de prelevement |
| 8/12/21 | 10:25 | Canyon de Lampaul | N 47 36.712 | W 007 32.125 | 808 | colonie a prelevee est tombee, tentative de la recuperer |
| 8/12/21 | 10:26 | Canyon de Lampaul | N 47 36.712 | W 007 32.125 | 808 | colonie prelevee |
| 8/12/21 | 10:29 | Canyon de Lampaul | N 47 36.711 | W 007 32.126 | 808 | partie vivante dans CB-C |
| 8/12/21 | 10:30 | Canyon de Lampaul | N 47 36.711 | W 007 32.126 | 808 | partie morte et un peu de vivant dans CB-A |
| 8/12/21 | 10:30 | Canyon de Lampaul | N 47 36.712 | W 007 32.126 | 808 | prelevement termine |
| 8/12/21 | 10:32 | Canyon de Lampaul | N 47 36.717 | W 007 32.120 | 800 | APN redemmarre, on monte pour clamber |
| 8/12/21 | 10:32 | Canyon de Lampaul | N 47 36.718 | W 007 32.117 | 793 | PLEINE EAU |
| 8/12/21 | 10:39 | Canyon de Lampaul | N 47 36.727 | W 007 32.068 | 682 | clampage pour aller vers le point 6 |
| 8/12/21 | 10:42 | Canyon de Lampaul | N 47 36.719 | W 007 32.061 | 678 | arret APN |
| 8/12/21 | 10:43 | Canyon de Lampaul | N 47 36.722 | W 007 32.072 | 678 | 900m a 3 noeuds |
| 8/12/21 | 11:15 | Canyon de Lampaul | N 47 36.943 | W 007 31.636 | 996 | declampage, on se dirige vers le point 6 (250m) |
| 8/12/21 | 11:30 | Canyon de Lampaul | N 47 37.057 | W 007 31.501 | 1142 | on voit le fond |
| 8/12/21 | 11:30 | Canyon de Lampaul | N 47 37.057 | W 007 31.500 | 1145 | SUSBTRAT meuble |
| 8/12/21 | 11:31 | Canyon de Lampaul | N 47 37.058 | W 007 31.492 | 1141 | Anemone |
| 8/12/21 | 11:32 | Canyon de Lampaul | N 47 37.058 | W 007 31.487 | 1137 | crevettes |
| 8/12/21 | 11:32 | Canyon de | N 47 | W 007 | 1135 | tubicole... |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 37.059 | 31.483 | | |
| 8/12/21 | 11:32 | Canyon de Lampaul | N 47 37.059 | W 007 31.478 | 1135 | anguilliforme |
| 8/12/21 | 11:33 | Canyon de Lampaul | N 47 37.060 | W 007 31.475 | 1133 | poulpe |
| 8/12/21 | 11:33 | Canyon de Lampaul | N 47 37.060 | W 007 31.474 | 1132 | poulpe a oreilles |
| 8/12/21 | 11:34 | Canyon de Lampaul | N 47 37.059 | W 007 31.475 | 1131 | falaise sedimentee 30 degres |
| 8/12/21 | 11:36 | Canyon de Lampaul | N 47 37.058 | W 007 31.466 | 1123 | SUSBSTRAT dur et meuble, blocs |
| 8/12/21 | 11:36 | Canyon de Lampaul | N 47 37.053 | W 007 31.465 | 1123 | SUBSTRAT dur, bas de falaise |
| 8/12/21 | 11:37 | Canyon de Lampaul | N 47 37.049 | W 007 31.467 | 1125 | courant porte vers NE |
| 8/12/21 | 11:38 | Canyon de Lampaul | N 47 37.044 | W 007 31.469 | 1126 | antipathaire |
| 8/12/21 | 11:38 | Canyon de Lampaul | N 47 37.042 | W 007 31.468 | 1124 | CORAIL jaune Enalopsammia |
| 8/12/21 | 11:39 | Canyon de Lampaul | N 47 37.037 | W 007 31.473 | 1124 | CORAIL isole Enalopsammia |
| 8/12/21 | 11:40 | Canyon de Lampaul | N 47 37.036 | W 007 31.474 | 1127 | Enalopsammia |
| 8/12/21 | 11:40 | Canyon de Lampaul | N 47 37.035 | W 007 31.474 | 1126 | Stichopates |
| 8/12/21 | 11:41 | Canyon de Lampaul | N 47 37.036 | W 007 31.476 | 1127 | Asteride |
| 8/12/21 | 11:41 | Canyon de Lampaul | N 47 37.036 | W 007 31.477 | 1126 | Acesta |
| 8/12/21 | 11:41 | Canyon de Lampaul | N 47 37.036 | W 007 31.479 | 1124 | Bathypathes, comatule |
| 8/12/21 | 11:42 | Canyon de Lampaul | N 47 37.033 | W 007 31.480 | 1113 | CORAIL, isole vivant |
| 8/12/21 | 11:43 | Canyon de Lampaul | N 47 37.032 | W 007 31.481 | 1108 | Antipathaire blanc |
| 8/12/21 | 11:43 | Canyon de Lampaul | N 47 37.032 | W 007 31.480 | 1103 | CORAIL mort isole, serpulides, gorgonaires |
| 8/12/21 | 11:44 | Canyon de Lampaul | N 47 37.030 | W 007 31.480 | 1094 | Divers antipathaires et alcyonaires |
| 8/12/21 | 11:45 | Canyon de Lampaul | N 47 37.028 | W 007 31.477 | 1081 | Araignee |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/12/21 | 11:45 | Canyon de Lampaul | N 47 37.028 | W 007 31.475 | 1077 | CORAIL isole mort |
| 8/12/21 | 11:46 | Canyon de Lampaul | N 47 37.026 | W 007 31.474 | 1069 | CORAIL peu dense, mort et vivant |
| 8/12/21 | 11:47 | Canyon de Lampaul | N 47 37.026 | W 007 31.472 | 1058 | CORAIL peu dense, Madrepora mort et vivant |
| 8/12/21 | 11:48 | Canyon de Lampaul | N 47 37.025 | W 007 31.472 | 1048 | Bathypathes et corail |
| 8/12/21 | 11:48 | Canyon de Lampaul | N 47 37.024 | W 007 31.471 | 1044 | Pente 83° |
| 8/12/21 | 11:49 | Canyon de Lampaul | N 47 37.023 | W 007 31.471 | 1039 | pente s'adoucit |
| 8/12/21 | 11:49 | Canyon de Lampaul | N 47 37.021 | W 007 31.474 | 1035 | Belles gorgones sur arete |
| 8/12/21 | 11:49 | Canyon de Lampaul | N 47 37.019 | W 007 31.478 | 1034 | DECHET ligne de peche |
| 8/12/21 | 11:50 | Canyon de Lampaul | N 47 37.017 | W 007 31.473 | 1023 | Antipathaires, CORAIL peu dense, vivant, Lophelia |
| 8/12/21 | 11:52 | Canyon de Lampaul | N 47 37.018 | W 007 31.467 | 1017 | on arrive sur l'a ligen de crete |
| 8/12/21 | 11:52 | Canyon de Lampaul | N 47 37.020 | W 007 31.465 | 1018 | CORAIL vivant isole Enalopsammia |
| 8/12/21 | 11:53 | Canyon de Lampaul | N 47 37.020 | W 007 31.465 | 1015 | plaques calcaires detaches |
| 8/12/21 | 11:55 | Canyon de Lampaul | N 47 37.027 | W 007 31.456 | 1008 | Bathypathes |
| 8/12/21 | 11:56 | Canyon de Lampaul | N 47 37.030 | W 007 31.454 | 1008 | CORAIL isole, vivant |
| 8/12/21 | 11:56 | Canyon de Lampaul | N 47 37.032 | W 007 31.450 | 1005 | Blocs calcaires arrondis erodes |
| 8/12/21 | 11:57 | Canyon de Lampaul | N 47 37.034 | W 007 31.435 | 998 | CORAIL dense vivant Lophelia et antipathaires |
| 8/12/21 | 12:03 | Canyon de Lampaul | N 47 37.058 | W 007 31.420 | 967 | on continue a suivre la falaise |
| 8/12/21 | 12:04 | Canyon de Lampaul | N 47 37.062 | W 007 31.423 | 965 | anemone |
| 8/12/21 | 12:05 | Canyon de Lampaul | N 47 37.065 | W 007 31.427 | 962 | CORAIL isolé |
| 8/12/21 | 12:05 | Canyon de Lampaul | N 47 37.068 | W 007 31.426 | 961 | on reprend le suivi du profil |
| 8/12/21 | 12:11 | Canyon de | N 47 | W 007 | 937 | tres sedimentaire |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 37.093 | 31.377 | | |
| 8/12/21 | 12:14 | Canyon de Lampaul | N 47 37.122 | W 007 31.353 | 934 | CORAIL rare colonie morte? |
| 8/12/21 | 12:14 | Canyon de Lampaul | N 47 37.129 | W 007 31.348 | 931 | quelques dalles rocheuses et quelques colonies eparses |
| 8/12/21 | 12:16 | Canyon de Lampaul | N 47 37.143 | W 007 31.337 | 916 | marche rocheuse, quelques colonies isolées |
| 8/12/21 | 12:18 | Canyon de Lampaul | N 47 37.152 | W 007 31.329 | 905 | huitres, oursin, qq coraux isolés |
| 8/12/21 | 12:22 | Canyon de Lampaul | N 47 37.169 | W 007 31.301 | 869 | point 8, changement de cap |
| 8/12/21 | 12:32 | Canyon de Lampaul | N 47 37.209 | W 007 31.119 | 879 | strate calcaire |
| 8/12/21 | 12:36 | Canyon de Lampaul | N 47 37.183 | W 007 31.083 | 897 | alcyon |
| 8/12/21 | 12:36 | Canyon de Lampaul | N 47 37.183 | W 007 31.082 | 896 | alcyoniidae |
| 8/12/21 | 12:42 | Canyon de Lampaul | N 47 37.224 | W 007 30.967 | 891 | plateau sedimentaire |
| 8/12/21 | 12:46 | Canyon de Lampaul | N 47 37.267 | W 007 30.915 | 885 | Fin de plongee |

6.7. Dive: 204 - 7

Date: **13/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|------------------------------------|
| 13/08/2021 | 08:00 | Lartaud Franck, Pradillon Florence |
| 13/08/2021 | 10:00 | Lartaud Franck, Tourolle Julie |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

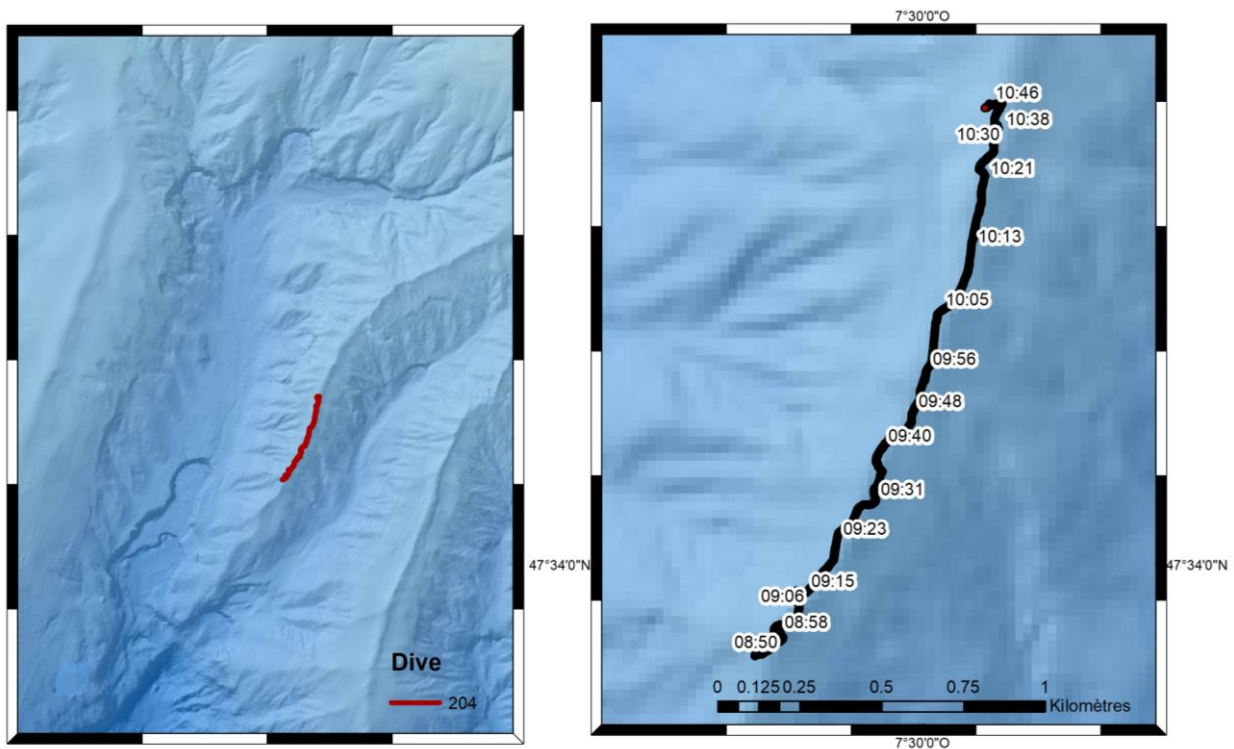
6.7.1. Objectives

Exploration of the eastern interfluve at 800 m to 1000 m depth and exploration of lower cliff (falaise 2) to locate *Solenosmilia variabilis*.

6.7.2. Work abstract

- 0 Sample operations
- 0 Measures
- 0 Moorings
- 93 Images

6.7.3. Map



6.7.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/13/21 | 08:51 | Canyon de Lampaul | N 47 33.856 | W 007 30.380 | 1004 | Arrivee au fond, debut de plongee, debut enregistrement |
| 8/13/21 | 08:52 | Canyon de Lampaul | N 47 33.860 | W 007 30.373 | 1006 | CORAIL colonies eparses |
| 8/13/21 | 08:52 | Canyon de Lampaul | N 47 33.862 | W 007 30.369 | 1005 | colonies peu denses, mais toutes vivantes |
| 8/13/21 | 08:52 | Canyon de Lampaul | N 47 33.863 | W 007 30.366 | 1005 | colonies au milieu vase |
| 8/13/21 | 08:53 | Canyon de Lampaul | N 47 33.865 | W 007 30.362 | 1005 | Madrepora + Lophelia |
| 8/13/21 | 08:54 | Canyon de Lampaul | N 47 33.868 | W 007 30.356 | 1005 | petites colonies, majorité vivantes |
| 8/13/21 | 08:57 | Canyon de Lampaul | N 47 33.884 | W 007 30.332 | 1008 | remonte pente (30°), fond vase + qlq colonies |
| 8/13/21 | 08:58 | Canyon de Lampaul | N 47 33.893 | W 007 30.346 | 996 | arrivee sommet, tres sedimenté |
| 8/13/21 | 08:59 | Canyon de Lampaul | N 47 33.895 | W 007 30.352 | 994 | pas de coraux, vase |
| 8/13/21 | 09:01 | Canyon de Lampaul | N 47 33.902 | W 007 30.346 | 995 | CORAIL, colonies tres peu dense |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/13/21 | 09:01 | Canyon de Lampaul | N 47 33.903 | W 007 30.339 | 995 | densité augmente dans la pente |
| 8/13/21 | 09:02 | Canyon de Lampaul | N 47 33.903 | W 007 30.321 | 1003 | faible densité mais toujours coraux |
| 8/13/21 | 09:03 | Canyon de Lampaul | N 47 33.902 | W 007 30.316 | 1007 | Ligne corail plus dense |
| 8/13/21 | 09:03 | Canyon de Lampaul | N 47 33.902 | W 007 30.309 | 1012 | petits rebords sédimentés dans paysage |
| 8/13/21 | 09:04 | Canyon de Lampaul | N 47 33.910 | W 007 30.299 | 1019 | pas de coraux, vase uniquement |
| 8/13/21 | 09:05 | Canyon de Lampaul | N 47 33.918 | W 007 30.296 | 1012 | CORAIL, colonies peu denses |
| 8/13/21 | 09:06 | Canyon de Lampaul | N 47 33.920 | W 007 30.296 | 1008 | Lophelia |
| 8/13/21 | 09:06 | Canyon de Lampaul | N 47 33.921 | W 007 30.296 | 1006 | Lophelia petits mais vivants |
| 8/13/21 | 09:08 | Canyon de Lampaul | N 47 33.949 | W 007 30.294 | 999 | passage pente côté ouest (Lampaul) |
| 8/13/21 | 09:08 | Canyon de Lampaul | N 47 33.954 | W 007 30.295 | 1001 | sédimenté (vase) |
| 8/13/21 | 09:09 | Canyon de Lampaul | N 47 33.958 | W 007 30.299 | 1008 | CORAIL, 1 colonie Lophelia |
| 8/13/21 | 09:09 | Canyon de Lampaul | N 47 33.955 | W 007 30.299 | 1004 | sommet crête, colonies très peu denses |
| 8/13/21 | 09:10 | Canyon de Lampaul | N 47 33.949 | W 007 30.298 | 1000 | augmentation densité corail |
| 8/13/21 | 09:11 | Canyon de Lampaul | N 47 33.945 | W 007 30.298 | 997 | pente 30°, densité corail moyenne |
| 8/13/21 | 09:12 | Canyon de Lampaul | N 47 33.935 | W 007 30.292 | 999 | moins sédiment, débris coraux + colonies vivantes |
| 8/13/21 | 09:13 | Canyon de Lampaul | N 47 33.939 | W 007 30.292 | 998 | mix Lophelia mort et vivant |
| 8/13/21 | 09:15 | Canyon de Lampaul | N 47 33.955 | W 007 30.278 | 996 | sur la crête, colonies de part et d'autre |
| 8/13/21 | 09:16 | Canyon de Lampaul | N 47 33.971 | W 007 30.256 | 992 | densité moyenne colonies |
| 8/13/21 | 09:19 | Canyon de Lampaul | N 47 33.999 | W 007 30.221 | 986 | passage caméra science à prises de vues step 3s |
| 8/13/21 | 09:20 | Canyon de Lampaul | N 47 34.005 | W 007 30.214 | 985 | blocs roche noirs dans sédiment + toujours colonies densité faible |
| 8/13/21 | 09:21 | Canyon de | N 47 | W 007 | 986 | alignement colonies sur ligne rupture pente |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 34.017 | 30.210 | | |
| 8/13/21 | 09:22 | Canyon de Lampaul | N 47 34.028 | W 007 30.207 | 985 | perte coraux, vase |
| 8/13/21 | 09:23 | Canyon de Lampaul | N 47 34.034 | W 007 30.205 | 983 | retour corail |
| 8/13/21 | 09:23 | Canyon de Lampaul | N 47 34.043 | W 007 30.203 | 979 | vase |
| 8/13/21 | 09:24 | Canyon de Lampaul | N 47 34.048 | W 007 30.201 | 978 | colonies corail (très peu) |
| 8/13/21 | 09:26 | Canyon de Lampaul | N 47 34.061 | W 007 30.182 | 970 | colonies peu dense |
| 8/13/21 | 09:26 | Canyon de Lampaul | N 47 34.063 | W 007 30.174 | 969 | hausse densité corailors rupture pente |
| 8/13/21 | 09:27 | Canyon de Lampaul | N 47 34.070 | W 007 30.165 | 967 | on suit légères marches escalier, très sédimenté, coraux sur arretes |
| 8/13/21 | 09:28 | Canyon de Lampaul | N 47 34.075 | W 007 30.162 | 966 | corail, densité faible à moyen |
| 8/13/21 | 09:29 | Canyon de Lampaul | N 47 34.084 | W 007 30.157 | 964 | densité moyenne coraux sur partie"s plus abrupt |
| 8/13/21 | 09:29 | Canyon de Lampaul | N 47 34.088 | W 007 30.155 | 963 | zone densité moyenne coraux |
| 8/13/21 | 09:30 | Canyon de Lampaul | N 47 34.096 | W 007 30.134 | 960 | paromola (sur camera science) |
| 8/13/21 | 09:31 | Canyon de Lampaul | N 47 34.096 | W 007 30.122 | 958 | biodiversité augmente ? faune associée dans chaque colonie |
| 8/13/21 | 09:32 | Canyon de Lampaul | N 47 34.105 | W 007 30.113 | 955 | colonies peu denses |
| 8/13/21 | 09:32 | Canyon de Lampaul | N 47 34.110 | W 007 30.114 | 952 | pente faible sur sommet |
| 8/13/21 | 09:35 | Canyon de Lampaul | N 47 34.131 | W 007 30.105 | 948 | qlq colonies (vivantes) |
| 8/13/21 | 09:35 | Canyon de Lampaul | N 47 34.139 | W 007 30.101 | 948 | sommet sedimenté, colonies densité moyenne de chaqsue côté en début pente |
| 8/13/21 | 09:36 | Canyon de Lampaul | N 47 34.144 | W 007 30.099 | 947 | melange colonies mortes et vivantes |
| 8/13/21 | 09:38 | Canyon de Lampaul | N 47 34.169 | W 007 30.111 | 947 | colonies isolées |
| 8/13/21 | 09:39 | Canyon de Lampaul | N 47 34.183 | W 007 30.101 | 946 | colonies densité faible mais vivant |
| 8/13/21 | 09:40 | Canyon de Lampaul | N 47 34.188 | W 007 30.096 | 946 | densité plus forte |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/13/21 | 09:41 | Canyon de Lampaul | N 47 34.195 | W 007 30.086 | 945 | densité forte colonies |
| 8/13/21 | 09:41 | Canyon de Lampaul | N 47 34.196 | W 007 30.084 | 944 | nb mort, qlq vivants |
| 8/13/21 | 09:42 | Canyon de Lampaul | N 47 34.198 | W 007 30.083 | 943 | qlq Madrepora, surtout Lophelia |
| 8/13/21 | 09:43 | Canyon de Lampaul | N 47 34.207 | W 007 30.063 | 945 | pente plus forte (côté Lampaul) |
| 8/13/21 | 09:44 | Canyon de Lampaul | N 47 34.213 | W 007 30.046 | 944 | vase + roches ocres/rouge |
| 8/13/21 | 09:45 | Canyon de Lampaul | N 47 34.216 | W 007 30.037 | 942 | zone plus abrupte, pente Est Lampaul (= ouest crete) |
| 8/13/21 | 09:46 | Canyon de Lampaul | N 47 34.228 | W 007 30.027 | 939 | zones coraux mort. faible épaisseur vase sur substrat dur (vase indurée) ? |
| 8/13/21 | 09:47 | Canyon de Lampaul | N 47 34.237 | W 007 30.027 | 936 | retour sur crete, colonies peu denses |
| 8/13/21 | 09:48 | Canyon de Lampaul | N 47 34.244 | W 007 30.024 | 932 | blocs roche (roche magmatique ?) |
| 8/13/21 | 09:49 | Canyon de Lampaul | N 47 34.249 | W 007 30.021 | 931 | densité moyenne colonies, mort (surtout) et un oe vivant |
| 8/13/21 | 09:50 | Canyon de Lampaul | N 47 34.260 | W 007 30.012 | 926 | densité colonies modérée |
| 8/13/21 | 09:50 | Canyon de Lampaul | N 47 34.261 | W 007 30.011 | 925 | le long marches escalier, lpps de concentratio de coraux |
| 8/13/21 | 09:52 | Canyon de Lampaul | N 47 34.276 | W 007 30.007 | 917 | crete plus abrupt, beaucoup colonies mortes |
| 8/13/21 | 09:53 | Canyon de Lampaul | N 47 34.292 | W 007 29.999 | 908 | colonies mortes |
| 8/13/21 | 09:54 | Canyon de Lampaul | N 47 34.294 | W 007 29.998 | 909 | nb coraux mort, qlq vivants, pente faible (30°) |
| 8/13/21 | 09:56 | Canyon de Lampaul | N 47 34.310 | W 007 29.993 | 905 | pente plus forte |
| 8/13/21 | 09:57 | Canyon de Lampaul | N 47 34.312 | W 007 29.991 | 905 | qlq alignemens coraux morts |
| 8/13/21 | 09:58 | Canyon de Lampaul | N 47 34.328 | W 007 29.978 | 899 | pente plus forte, colonies mortes et qlq vivantes |
| 8/13/21 | 10:00 | Canyon de Lampaul | N 47 34.350 | W 007 29.975 | 899 | moins de colonies, toujours debris roches (magmatique ?) |
| 8/13/21 | 10:03 | Canyon de Lampaul | N 47 34.389 | W 007 29.969 | 899 | tres peu colonies |
| 8/13/21 | 10:05 | Canyon de | N 47 | W 007 | 890 | changement quart franck et julie |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 34.406 | 29.958 | | |
| 8/13/21 | 10:05 | Canyon de Lampaul | N 47 34.409 | W 007 29.952 | 885 | CORAIL peu dense mort quelques colonies vivantes |
| 8/13/21 | 10:09 | Canyon de Lampaul | N 47 34.444 | W 007 29.909 | 863 | CORAIL isole, sediments |
| 8/13/21 | 10:11 | Canyon de Lampaul | N 47 34.482 | W 007 29.891 | 858 | CORAIL peu dense |
| 8/13/21 | 10:14 | Canyon de Lampaul | N 47 34.527 | W 007 29.881 | 847 | petits bloc de roche noire (basalte ?) |
| 8/13/21 | 10:15 | Canyon de Lampaul | N 47 34.541 | W 007 29.877 | 845 | arrivee mathilde |
| 8/13/21 | 10:16 | Canyon de Lampaul | N 47 34.547 | W 007 29.875 | 844 | CORAIL peu dense |
| 8/13/21 | 10:17 | Canyon de Lampaul | N 47 34.570 | W 007 29.866 | 839 | CORAIL mort et quelques colonies isolées vivantes |
| 8/13/21 | 10:20 | Canyon de Lampaul | N 47 34.604 | W 007 29.860 | 828 | Toujours CORAIL peu dense mort et vivant |
| 8/13/21 | 10:22 | Canyon de Lampaul | N 47 34.623 | W 007 29.854 | 822 | A 180 m du point 2 |
| 8/13/21 | 10:29 | Canyon de Lampaul | N 47 34.669 | W 007 29.833 | 809 | CORAIL isole mort |
| 8/13/21 | 10:30 | Canyon de Lampaul | N 47 34.674 | W 007 29.833 | 808 | de moins en moins de coraux |
| 8/13/21 | 10:33 | Canyon de Lampaul | N 47 34.693 | W 007 29.824 | 805 | SUBSTRAT MEUBLE |
| 8/13/21 | 10:34 | Canyon de Lampaul | N 47 34.701 | W 007 29.823 | 804 | DECHET divers (bouteille en verre) |
| 8/13/21 | 10:35 | Canyon de Lampaul | N 47 34.713 | W 007 29.831 | 801 | un peu plus de corail |
| 8/13/21 | 10:36 | Canyon de Lampaul | N 47 34.717 | W 007 29.829 | 801 | CORAIL peu dense vivant et mort |
| 8/13/21 | 10:38 | Canyon de Lampaul | N 47 34.731 | W 007 29.818 | 799 | Gorgones et asteries |
| 8/13/21 | 10:39 | Canyon de Lampaul | N 47 34.739 | W 007 29.812 | 797 | arrivee point 2, fin de profil |
| 8/13/21 | 10:40 | Canyon de Lampaul | N 47 34.739 | W 007 29.814 | 795 | en attente positionnement bateau |
| 8/13/21 | 10:42 | Canyon de Lampaul | N 47 34.737 | W 007 29.836 | 795 | debut de clamping |
| 8/13/21 | 10:47 | Canyon de Lampaul | N 47 34.734 | W 007 29.848 | 774 | probleme technique : TMS motor (enrouleur crame) |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/13/21 | 11:06 | Canyon de Lampaul | N 47 34.729 | W 007 29.841 | 597 | procedure d'urgence on coupe la fibre fin de plongee |

6.8. Dive: 205 - 8

Date: **14/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|---|
| 14/08/2021 | 08:00 | Lartaud Franck, Zbinden Magali, Fuchs Sandra, Chemel Mathilde |
| 14/08/2021 | 10:00 | Lartaud Franck |
| 14/08/2021 | 12:00 | Olu Karine, Lartaud Franck, Tourolle Julie |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

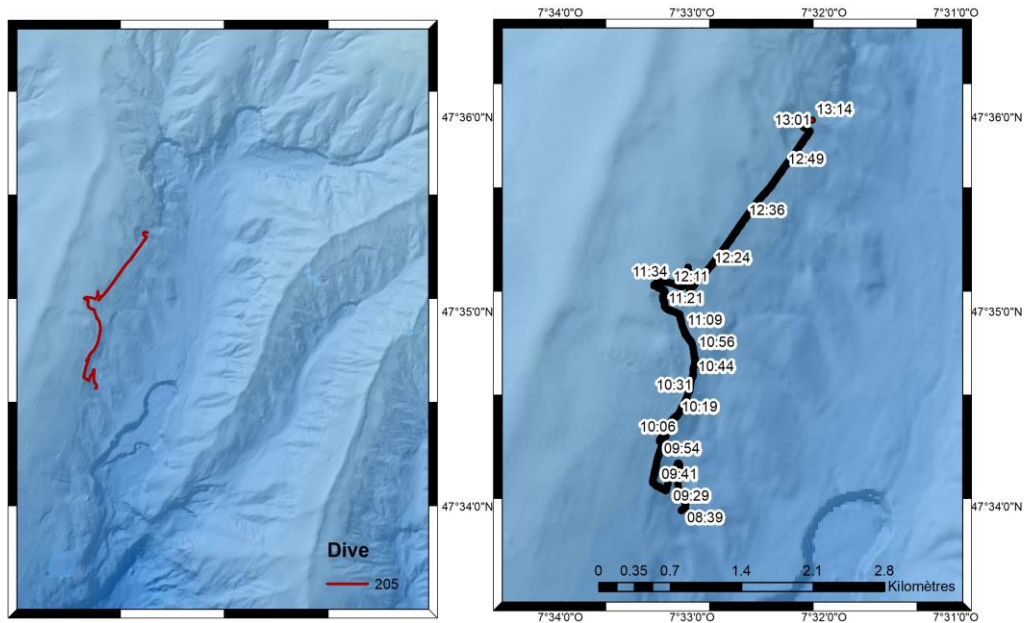
6.8.1. Objectives

Exploration of the western flank, *Lophelia* sampling.

6.8.2. Work abstract

- 0 Sample operations
- 0 Measures
- 0 Moorings
- 158 Images

6.8.3. Map



6.8.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|-------------|--------------|----------|-------------------------------------|
| 8/14/21 | 07:20 | Canyon de Lampaul | N 47 34.742 | W 007 32.278 | 1 | Début de descente |
| 8/14/21 | 08:32 | Canyon de Lampaul | N 47 33.971 | W 007 33.076 | 1247 | PLEINE EAU |
| 8/14/21 | 08:33 | Canyon de Lampaul | N 47 33.971 | W 007 33.076 | 1249 | Debut quart Magali et Mathilde |
| 8/14/21 | 08:37 | Canyon de Lampaul | N 47 33.967 | W 007 33.087 | 1302 | PLEINE EAU 50 m du fond |
| 8/14/21 | 08:39 | Canyon de Lampaul | N 47 33.978 | W 007 33.084 | 1347 | Vision du fond |
| 8/14/21 | 08:40 | Canyon de Lampaul | N 47 33.981 | W 007 33.080 | 1355 | Demarrage de l'enregistrement video |
| 8/14/21 | 08:40 | Canyon de Lampaul | N 47 33.982 | W 007 33.077 | 1356 | SEDIMENT MEUBLE et bioturbation |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/14/21 | 08:41 | Canyon de Lampaul | N 47 33.989 | W 007 33.057 | 1368 | SEDIMENT MEUBLE |
| 8/14/21 | 08:43 | Canyon de Lampaul | N 47 33.998 | W 007 33.056 | 1367 | SEDIMENT MEUBLE et debris, antipathaire, acanella |
| 8/14/21 | 08:44 | Canyon de Lampaul | N 47 34.007 | W 007 33.054 | 1363 | SEDIMENT MEUBLE et antipathaires |
| 8/14/21 | 08:45 | Canyon de Lampaul | N 47 34.015 | W 007 33.053 | 1357 | anthipathaires et gorgone |
| 8/14/21 | 08:47 | Canyon de Lampaul | N 47 34.021 | W 007 33.056 | 1350 | SEDIMENT MEUBLE et anthipathaires |
| 8/14/21 | 08:48 | Canyon de Lampaul | N 47 34.024 | W 007 33.058 | 1347 | Courant qui porte a l'est qui ecarte pas mal du profil |
| 8/14/21 | 08:49 | Canyon de Lampaul | N 47 34.028 | W 007 33.064 | 1340 | antipathaires et poisson |
| 8/14/21 | 08:50 | Canyon de Lampaul | N 47 34.033 | W 007 33.069 | 1336 | terriers |
| 8/14/21 | 08:50 | Canyon de Lampaul | N 47 34.035 | W 007 33.072 | 1333 | SUBSTRAT meuble sur SUBSTRAT dur, forgoes |
| 8/14/21 | 08:51 | Canyon de Lampaul | N 47 34.042 | W 007 33.081 | 1326 | Debris |
| 8/14/21 | 08:51 | Canyon de Lampaul | N 47 34.046 | W 007 33.086 | 1323 | SUBSTRAT dur ou debris |
| 8/14/21 | 08:53 | Canyon de Lampaul | N 47 34.057 | W 007 33.096 | 1314 | Enallospsammi |
| 8/14/21 | 08:53 | Canyon de Lampaul | N 47 34.059 | W 007 33.096 | 1311 | SUBSTRAT dur en pente |
| 8/14/21 | 08:53 | Canyon de Lampaul | N 47 34.065 | W 007 33.099 | 1308 | SUBSTRAT DUR en escalier avec fine couche SEDIMENT MEUBLE |
| 8/14/21 | 08:54 | Canyon de Lampaul | N 47 34.070 | W 007 33.101 | 1303 | debut sequence poulpe a oreilles |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/14/21 | 08:54 | Canyon de Lampaul | N 47 34.072 | W 007 33.103 | 1302 | fin sequence poulpe a oreilles |
| 8/14/21 | 08:54 | Canyon de Lampaul | N 47 34.073 | W 007 33.104 | 1302 | SEDIMENT MEUBLE et debris ? |
| 8/14/21 | 08:55 | Canyon de Lampaul | N 47 34.080 | W 007 33.106 | 1299 | SUBSTRAT DUR en escalier et antipathaire ou gorgone |
| 8/14/21 | 08:56 | Canyon de Lampaul | N 47 34.092 | W 007 33.107 | 1296 | Escaliers en pente |
| 8/14/21 | 08:56 | Canyon de Lampaul | N 47 34.099 | W 007 33.108 | 1294 | Couche de sediment meuble sur substrat dur |
| 8/14/21 | 08:56 | Canyon de Lampaul | N 47 34.104 | W 007 33.109 | 1293 | antipathaire et enallopsammia |
| 8/14/21 | 08:57 | Canyon de Lampaul | N 47 34.114 | W 007 33.111 | 1289 | SEDIMENT MEUBLE et SUBSTRAT DUR, pente marquee |
| 8/14/21 | 08:59 | Canyon de Lampaul | N 47 34.131 | W 007 33.111 | 1278 | Falaise |
| 8/14/21 | 08:59 | Canyon de Lampaul | N 47 34.132 | W 007 33.111 | 1276 | gorgone |
| 8/14/21 | 09:01 | Canyon de Lampaul | N 47 34.135 | W 007 33.111 | 1274 | rapprochement de falaise pour photo sur camera science |
| 8/14/21 | 09:02 | Canyon de Lampaul | N 47 34.135 | W 007 33.111 | 1271 | Gorgones |
| 8/14/21 | 09:04 | Canyon de Lampaul | N 47 34.141 | W 007 33.109 | 1269 | Escaliers en pente |
| 8/14/21 | 09:05 | Canyon de Lampaul | N 47 34.149 | W 007 33.108 | 1263 | SEDIMENT MEUBL, pente marquee |
| 8/14/21 | 09:05 | Canyon de Lampaul | N 47 34.153 | W 007 33.108 | 1263 | antipathaire |
| 8/14/21 | 09:05 | Canyon de Lampaul | N 47 34.156 | W 007 33.107 | 1263 | Falaise |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/14/21 | 09:06 | Canyon de Lampaul | N 47 34.165 | W 007 33.106 | 1261 | Devris et substrat dur avec couche sediment |
| 8/14/21 | 09:06 | Canyon de Lampaul | N 47 34.168 | W 007 33.105 | 1260 | Escalier avec gorgones |
| 8/14/21 | 09:07 | Canyon de Lampaul | N 47 34.175 | W 007 33.104 | 1255 | eboulement de falaise avec possiblement colonies mortes dessus qui sont tombees |
| 8/14/21 | 09:08 | Canyon de Lampaul | N 47 34.188 | W 007 33.102 | 1253 | SEDIMENT MEUBLE et blocs substrat dur |
| 8/14/21 | 09:10 | Canyon de Lampaul | N 47 34.206 | W 007 33.101 | 1244 | DEBRIS CORAIL mort |
| 8/14/21 | 09:10 | Canyon de Lampaul | N 47 34.208 | W 007 33.101 | 1243 | CORAIL MORT devris sur SEDIMENT MEUBLE |
| 8/14/21 | 09:11 | Canyon de Lampaul | N 47 34.216 | W 007 33.101 | 1237 | Debris CORAIL mort |
| 8/14/21 | 09:12 | Canyon de Lampaul | N 47 34.218 | W 007 33.102 | 1235 | Arrivee point 2, ralenti le ROV pour attendre le lest et entamer giration |
| 8/14/21 | 09:13 | Canyon de Lampaul | N 47 34.221 | W 007 33.110 | 1230 | ROV tourne tranquillement, vision presque PLEINE EAU |
| 8/14/21 | 09:14 | Canyon de Lampaul | N 47 34.214 | W 007 33.115 | 1230 | Vision du fond, SEDIMENT MEUBLE en pente avec marche, etoiles de mer |
| 8/14/21 | 09:15 | Canyon de Lampaul | N 47 34.209 | W 007 33.119 | 1232 | anemones |
| 8/14/21 | 09:15 | Canyon de Lampaul | N 47 34.204 | W 007 33.122 | 1233 | chimere ? |
| 8/14/21 | 09:15 | Canyon de Lampaul | N 47 34.201 | W 007 33.124 | 1234 | Substrat dur en petits bloc et debris de gorgone ? |
| 8/14/21 | 09:16 | Canyon de Lampaul | N 47 34.195 | W 007 33.128 | 1233 | marches d'escaliers |
| 8/14/21 | 09:16 | Canyon de Lampaul | N 47 34.194 | W 007 33.128 | 1234 | Debris CORAIL mort |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|-------------|--------------|----------|---|
| 8/14/21 | 09:17 | Canyon de Lampaul | N 47 34.187 | W 007 33.133 | 1229 | SEDIMENT MEUBLE, oursins, antipathaires |
| 8/14/21 | 09:18 | Canyon de Lampaul | N 47 34.180 | W 007 33.135 | 1229 | Marches d'escalier avec possibles debris en contrebass |
| 8/14/21 | 09:18 | Canyon de Lampaul | N 47 34.177 | W 007 33.136 | 1228 | marches s'aplanissent et disparaissent |
| 8/14/21 | 09:19 | Canyon de Lampaul | N 47 34.170 | W 007 33.141 | 1229 | SEDIMENT MEUBLE en pente |
| 8/14/21 | 09:20 | Canyon de Lampaul | N 47 34.166 | W 007 33.145 | 1230 | Fine couche SEDIEMNT MEUBLE sur SUBSTRAT DUR, antipathaires |
| 8/14/21 | 09:21 | Canyon de Lampaul | N 47 34.155 | W 007 33.157 | 1233 | Pente |
| 8/14/21 | 09:24 | Canyon de Lampaul | N 47 34.138 | W 007 33.177 | 1229 | marches escalier, SEDIMENT MEUBLE |
| 8/14/21 | 09:25 | Canyon de Lampaul | N 47 34.128 | W 007 33.181 | 1234 | SEDIMENT MEUBLE, affleurement de SUBSTRANT DUR, sebaste |
| 8/14/21 | 09:27 | Canyon de Lampaul | N 47 34.115 | W 007 33.186 | 1233 | Debris CORAIL ? isole |
| 8/14/21 | 09:27 | Canyon de Lampaul | N 47 34.113 | W 007 33.187 | 1233 | SEDIMENT MEUBLE sur pente |
| 8/14/21 | 09:28 | Canyon de Lampaul | N 47 34.109 | W 007 33.189 | 1232 | debris CORAIL ou gorgone ? isole |
| 8/14/21 | 09:29 | Canyon de Lampaul | N 47 34.099 | W 007 33.193 | 1228 | Marches |
| 8/14/21 | 09:30 | Canyon de Lampaul | N 47 34.084 | W 007 33.199 | 1223 | SEDIMENT MEUBLE sur pente marquee |
| 8/14/21 | 09:31 | Canyon de Lampaul | N 47 34.083 | W 007 33.200 | 1223 | Arrivee point 3, debut giration |
| 8/14/21 | 09:32 | Canyon de Lampaul | N 47 34.081 | W 007 33.211 | 1216 | SEDIMENT MEUBLE plein de terriers |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/14/21 | 09:32 | Canyon de Lampaul | N 47 34.084 | W 007 33.219 | 1210 | Petites marches |
| 8/14/21 | 09:33 | Canyon de Lampaul | N 47 34.087 | W 007 33.225 | 1205 | Releif s'aplanit, SEDIEMNT MEUBLE et affleurement de substrat dur |
| 8/14/21 | 09:33 | Canyon de Lampaul | N 47 34.090 | W 007 33.232 | 1199 | Debris CORAIL et CORAIL MORT |
| 8/14/21 | 09:35 | Canyon de Lampaul | N 47 34.095 | W 007 33.244 | 1181 | changement quart |
| 8/14/21 | 09:35 | Canyon de Lampaul | N 47 34.096 | W 007 33.246 | 1174 | leger replat, beaucoup sedim meuble sur petites marches |
| 8/14/21 | 09:36 | Canyon de Lampaul | N 47 34.099 | W 007 33.253 | 1163 | mur avec qlq coraux, debris au pied |
| 8/14/21 | 09:37 | Canyon de Lampaul | N 47 34.100 | W 007 33.254 | 1159 | 1 ou 2 colonies lelong mur |
| 8/14/21 | 09:37 | Canyon de Lampaul | N 47 34.100 | W 007 33.255 | 1150 | nouveau replat sedim |
| 8/14/21 | 09:38 | Canyon de Lampaul | N 47 34.102 | W 007 33.261 | 1145 | blocs roches, substrat dur |
| 8/14/21 | 09:39 | Canyon de Lampaul | N 47 34.103 | W 007 33.265 | 1143 | roches au milieu sedim, |
| 8/14/21 | 09:39 | Canyon de Lampaul | N 47 34.104 | W 007 33.269 | 1141 | falaise blanche (vase calcaire induree) + qlq blocs roche noire (magmatique ?) |
| 8/14/21 | 09:40 | Canyon de Lampaul | N 47 34.105 | W 007 33.272 | 1139 | Plume de mer |
| 8/14/21 | 09:40 | Canyon de Lampaul | N 47 34.107 | W 007 33.277 | 1135 | CORAIL très isolé, poussent depuis surplomb vvers le bas |
| 8/14/21 | 09:41 | Canyon de Lampaul | N 47 34.111 | W 007 33.283 | 1127 | zone replat, seim meuble |
| 8/14/21 | 09:43 | Canyon de Lampaul | N 47 34.118 | W 007 33.295 | 1118 | colonie morte isolée |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/14/21 | 09:44 | Canyon de Lampaul | N 47 34.124 | W 007 33.303 | 1112 | penne faible (15°), sedim meuble |
| 8/14/21 | 09:45 | Canyon de Lampaul | N 47 34.136 | W 007 33.300 | 1108 | plume de mer |
| 8/14/21 | 09:46 | Canyon de Lampaul | N 47 34.143 | W 007 33.297 | 1106 | penne faible, sedim meuble |
| 8/14/21 | 09:49 | Canyon de Lampaul | N 47 34.188 | W 007 33.283 | 1094 | passages substrat dur (sous sedim) |
| 8/14/21 | 09:50 | Canyon de Lampaul | N 47 34.204 | W 007 33.278 | 1088 | plume de mer isolée |
| 8/14/21 | 09:51 | Canyon de Lampaul | N 47 34.223 | W 007 33.272 | 1084 | bloc roche |
| 8/14/21 | 09:58 | Canyon de Lampaul | N 47 34.308 | W 007 33.233 | 1066 | DECHET ? |
| 8/14/21 | 10:00 | Canyon de Lampaul | N 47 34.314 | W 007 33.230 | 1065 | veritile ? |
| 8/14/21 | 10:01 | Canyon de Lampaul | N 47 34.319 | W 007 33.229 | 1064 | toujours vase, on suit le rebord d'un petit décrochement |
| 8/14/21 | 10:05 | Canyon de Lampaul | N 47 34.342 | W 007 33.246 | 1052 | DECHET (bouteille) |
| 8/14/21 | 10:06 | Canyon de Lampaul | N 47 34.347 | W 007 33.242 | 1053 | DECHET ? |
| 8/14/21 | 10:07 | Canyon de Lampaul | N 47 34.356 | W 007 33.214 | 1059 | Lot |
| 8/14/21 | 10:07 | Canyon de Lampaul | N 47 34.357 | W 007 33.207 | 1061 | rupture penne |
| 8/14/21 | 10:08 | Canyon de Lampaul | N 47 34.365 | W 007 33.205 | 1063 | penne tres forte, mais flanc sedimenté |
| 8/14/21 | 10:08 | Canyon de Lampaul | N 47 34.371 | W 007 33.209 | 1058 | petit cirque |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/14/21 | 10:09 | Canyon de Lampaul | N 47 34.372 | W 007 33.210 | 1057 | qlq colonies mortes (tres peu) |
| 8/14/21 | 10:10 | Canyon de Lampaul | N 47 34.375 | W 007 33.212 | 1058 | DECHET (bouteille Kro ?) |
| 8/14/21 | 10:12 | Canyon de Lampaul | N 47 34.389 | W 007 33.206 | 1052 | crete ensevelit sous vase |
| 8/14/21 | 10:14 | Canyon de Lampaul | N 47 34.418 | W 007 33.181 | 1048 | de nouveau zone sedim meuble |
| 8/14/21 | 10:18 | Canyon de Lampaul | N 47 34.458 | W 007 33.131 | 1047 | gorgone |
| 8/14/21 | 10:19 | Canyon de Lampaul | N 47 34.460 | W 007 33.126 | 1049 | qlq debris dans sedim |
| 8/14/21 | 10:19 | Canyon de Lampaul | N 47 34.461 | W 007 33.124 | 1049 | gorgone (et corail isolé sur image science) |
| 8/14/21 | 10:20 | Canyon de Lampaul | N 47 34.467 | W 007 33.113 | 1050 | plumes de mer |
| 8/14/21 | 10:21 | Canyon de Lampaul | N 47 34.476 | W 007 33.104 | 1050 | 1 colonie corail mort |
| 8/14/21 | 10:24 | Canyon de Lampaul | N 47 34.507 | W 007 33.082 | 1048 | rare colonie corail mort dans sedim |
| 8/14/21 | 10:29 | Canyon de Lampaul | N 47 34.546 | W 007 33.051 | 1044 | qlq plumes de mer |
| 8/14/21 | 10:31 | Canyon de Lampaul | N 47 34.566 | W 007 33.040 | 1040 | colonie morte dans sedim |
| 8/14/21 | 10:31 | Canyon de Lampaul | N 47 34.567 | W 007 33.039 | 1040 | 1 petite portion vivante au sommet |
| 8/14/21 | 10:33 | Canyon de Lampaul | N 47 34.572 | W 007 33.037 | 1038 | un peu plus de debris dan vase |
| 8/14/21 | 10:34 | Canyon de Lampaul | N 47 34.580 | W 007 33.031 | 1036 | debris coraux, peu |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/14/21 | 10:35 | Canyon de Lampaul | N 47 34.588 | W 007 33.026 | 1034 | cerianthe |
| 8/14/21 | 10:35 | Canyon de Lampaul | N 47 34.589 | W 007 33.026 | 1034 | zoom cerianthe |
| 8/14/21 | 10:37 | Canyon de Lampaul | N 47 34.602 | W 007 33.022 | 1030 | DECHET (plastique) |
| 8/14/21 | 10:38 | Canyon de Lampaul | N 47 34.606 | W 007 33.022 | 1029 | debris coraux |
| 8/14/21 | 10:39 | Canyon de Lampaul | N 47 34.616 | W 007 33.019 | 1026 | debris coraux |
| 8/14/21 | 10:42 | Canyon de Lampaul | N 47 34.646 | W 007 33.013 | 1015 | vase et coraux mort (peu dense) |
| 8/14/21 | 10:44 | Canyon de Lampaul | N 47 34.665 | W 007 32.998 | 1012 | rupture pente mais trop sedim |
| 8/14/21 | 10:47 | Canyon de Lampaul | N 47 34.702 | W 007 32.996 | 1000 | CORAIL vivant (Lophelia ?) au milieu vase |
| 8/14/21 | 10:49 | Canyon de Lampaul | N 47 34.724 | W 007 32.986 | 998 | DECHET (cordes ?) |
| 8/14/21 | 10:50 | Canyon de Lampaul | N 47 34.742 | W 007 32.982 | 996 | 1 colonie corail vivant isolée |
| 8/14/21 | 10:55 | Canyon de Lampaul | N 47 34.802 | W 007 32.993 | 986 | substrat meuble |
| 8/14/21 | 10:56 | Canyon de Lampaul | N 47 34.821 | W 007 32.998 | 986 | pente plus fote |
| 8/14/21 | 10:56 | Canyon de Lampaul | N 47 34.823 | W 007 32.998 | 986 | toujours sedim |
| 8/14/21 | 10:59 | Canyon de Lampaul | N 47 34.851 | W 007 33.017 | 980 | plusde debris divers dans sedim |
| 8/14/21 | 11:01 | Canyon de Lampaul | N 47 34.872 | W 007 33.043 | 966 | Paromola avec corail vivant dasn les patttes |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/14/21 | 11:03 | Canyon de Lampaul | N 47 34.880 | W 007 33.051 | 958 | marches d'escaliers un peu sedimenté (boue calcaire) |
| 8/14/21 | 11:04 | Canyon de Lampaul | N 47 34.886 | W 007 33.056 | 954 | sustrat plus dur |
| 8/14/21 | 11:07 | Canyon de Lampaul | N 47 34.923 | W 007 33.076 | 938 | decoupage pente en biseau |
| 8/14/21 | 11:08 | Canyon de Lampaul | N 47 34.928 | W 007 33.077 | 937 | cerianthe sur rebord marches |
| 8/14/21 | 11:09 | Canyon de Lampaul | N 47 34.943 | W 007 33.083 | 932 | T° eau = 9.7 °C (930 m) |
| 8/14/21 | 11:12 | Canyon de Lampaul | N 47 34.986 | W 007 33.100 | 918 | pente plus forte, moins sedim sur substrat 'dur' |
| 8/14/21 | 11:15 | Canyon de Lampaul | N 47 34.999 | W 007 33.142 | 893 | sedim meuble avec petits debris divers |
| 8/14/21 | 11:16 | Canyon de Lampaul | N 47 35.004 | W 007 33.161 | 886 | DECHET ? |
| 8/14/21 | 11:16 | Canyon de Lampaul | N 47 35.006 | W 007 33.167 | 883 | vase avec zones coulees debris roche |
| 8/14/21 | 11:17 | Canyon de Lampaul | N 47 35.015 | W 007 33.193 | 873 | poisson |
| 8/14/21 | 11:18 | Canyon de Lampaul | N 47 35.022 | W 007 33.208 | 864 | eperon vaseux |
| 8/14/21 | 11:20 | Canyon de Lampaul | N 47 35.054 | W 007 33.217 | 841 | pente moderee (>30°)sedimen |
| 8/14/21 | 11:26 | Canyon de Lampaul | N 47 35.115 | W 007 33.234 | 801 | arrivee 800m, tres sedimenté |
| 8/14/21 | 11:31 | Canyon de Lampaul | N 47 35.133 | W 007 33.293 | 779 | changement de quaty : kari |
| 8/14/21 | 11:31 | Canyon de Lampaul | N 47 35.134 | W 007 33.293 | 778 | changement de quart karine et julie |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/14/21 | 11:32 | Canyon de Lampaul | N 47 35.136 | W 007 33.293 | 777 | on a fini le profil, on part vers le nord est |
| 8/14/21 | 11:33 | Canyon de Lampaul | N 47 35.143 | W 007 33.281 | 777 | SUBSTRAT MEUBLE |
| 8/14/21 | 11:34 | Canyon de Lampaul | N 47 35.151 | W 007 33.258 | 779 | sediments toujours |
| 8/14/21 | 11:35 | Canyon de Lampaul | N 47 35.153 | W 007 33.243 | 783 | oursins |
| 8/14/21 | 11:38 | Canyon de Lampaul | N 47 35.149 | W 007 33.185 | 800 | SUBSTRAT MEUBLE vallone |
| 8/14/21 | 11:39 | Canyon de Lampaul | N 47 35.145 | W 007 33.152 | 812 | terriers ++ |
| 8/14/21 | 11:42 | Canyon de Lampaul | N 47 35.133 | W 007 33.100 | 829 | chimere |
| 8/14/21 | 11:43 | Canyon de Lampaul | N 47 35.137 | W 007 33.071 | 837 | oursin |
| 8/14/21 | 11:45 | Canyon de Lampaul | N 47 35.157 | W 007 33.054 | 838 | sediments meubles toujours |
| 8/14/21 | 11:49 | Canyon de Lampaul | N 47 35.213 | W 007 33.035 | 834 | sediments toujours, leger décrochement |
| 8/14/21 | 11:54 | Canyon de Lampaul | N 47 35.212 | W 007 33.033 | 796 | PLEINE EAU |
| 8/14/21 | 11:55 | Canyon de Lampaul | N 47 35.211 | W 007 33.033 | 794 | on va clamber pour retourner au point Lophelia 1 |
| 8/14/21 | 12:00 | Canyon de Lampaul | N 47 35.201 | W 007 33.036 | 721 | Arret enregistrement videos |
| 8/14/21 | 12:06 | Canyon de Lampaul | N 47 35.159 | W 007 32.990 | 719 | clamping ok |
| 8/14/21 | 12:28 | Canyon de Lampaul | N 47 35.304 | W 007 32.782 | 696 | Remarque : Sur l'arrete que l'on vient d'explorer, le courant était plus faible que sur les zones des |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------------|----------------|-----------------|----------|--|
| 8/14/21 | 12:30 | Canyon de Lampaul | N 47 35.332 | W 007 32.752 | 697 | plongées précédentes Pas assez de batterie pour aller prélever |

6.9. Dive: 206 - 9

Date: **16/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|---|
| 16/08/2021 | 08:00 | Lartaud Franck, Zbinden Magali, Fuchs Sandra, Chemel Mathilde |
| 16/08/2021 | 10:00 | Fabri Marie-Claire, Tourolle Julie, Chemel Mathilde |
| 16/08/2021 | 12:00 | Olu Karine, Fabri Marie-Claire, Karoui Imen |

Station: **Canyon de Lampaul**

Submersible:

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

6.9.1. Objectives

1 – Deployment of the RANCH-01 and Lophelia sampling on the upper cliff (falaise 1).

2. *Madrepora* and water sampling in the *Madrepora* coral garden

6.9.2. Work abstract

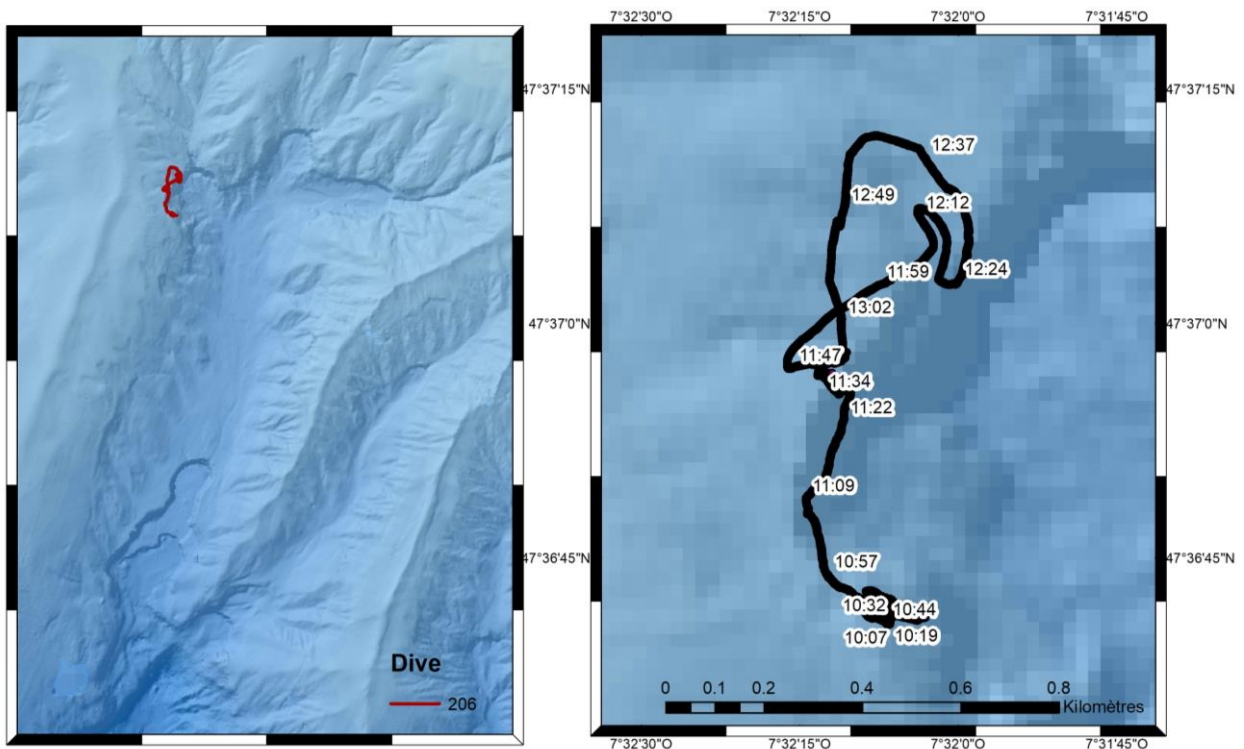
10 Sample operations

0 Measures

0 Moorings

150 Images

6.9.3. Map



6.9.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/16/21 | 09:16 | Canyon de Lampaul | N 47 36.693 | W 007 32.061 | 835 | PLEINE EAU, 24m du fond |
| 8/16/21 | 09:16 | Canyon de Lampaul | N 47 36.690 | W 007 32.056 | 854 | Fond en vue |
| 8/16/21 | 09:17 | Canyon de Lampaul | N 47 36.685 | W 007 32.059 | 856 | enregistrement démarrés |
| 8/16/21 | 09:17 | Canyon de Lampaul | N 47 36.685 | W 007 32.061 | 855 | apn démarré |
| 8/16/21 | 09:19 | Canyon de Lampaul | N 47 36.684 | W 007 32.071 | 849 | CORAIL, colonies mortes et qlq vivantes (peu dense) |
| 8/16/21 | 09:19 | Canyon de Lampaul | N 47 36.684 | W 007 32.074 | 844 | CFORAIL plus dense, visible sur apn |
| 8/16/21 | 09:20 | Canyon de Lampaul | N 47 36.685 | W 007 32.077 | 839 | huitres + coraux morts sur replat + gorgones |
| 8/16/21 | 09:20 | Canyon de Lampaul | N 47 36.685 | W 007 32.081 | 834 | palangre avec corail mort |
| 8/16/21 | 09:20 | Canyon de Lampaul | N 47 36.686 | W 007 32.084 | 832 | nb laisse peche (filets), colonies mortes dense + vivantes (peu dense) |
| 8/16/21 | 09:22 | Canyon de Lampaul | N 47 36.688 | W 007 32.099 | 815 | arrivee zone Lophelia 2 |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/16/21 | 09:23 | Canyon de Lampaul | N 47 36.688 | W 007 32.102 | 810 | Densité coraux forte |
| 8/16/21 | 09:24 | Canyon de Lampaul | N 47 36.688 | W 007 32.104 | 804 | falaise a huitre + Lophelia |
| 8/16/21 | 09:24 | Canyon de Lampaul | N 47 36.688 | W 007 32.103 | 802 | laser |
| 8/16/21 | 09:24 | Canyon de Lampaul | N 47 36.688 | W 007 32.103 | 803 | laser |
| 8/16/21 | 09:28 | Canyon de Lampaul | N 47 36.697 | W 007 32.106 | 803 | Forte densité corail pied mur a huitres, surtout morts |
| 8/16/21 | 09:44 | Canyon de Lampaul | N 47 36.692 | W 007 32.100 | 805 | arretpn |
| 8/16/21 | 09:48 | Canyon de Lampaul | N 47 36.686 | W 007 32.110 | 805 | positionné pour deploiement RANCH 1 |
| 8/16/21 | 09:50 | Canyon de Lampaul | N 47 36.685 | W 007 32.111 | 806 | accrochage coraux morts, tombes dans CB-C1 |
| 8/16/21 | 09:53 | Canyon de Lampaul | N 47 36.685 | W 007 32.111 | 806 | detail RANCH |
| 8/16/21 | 09:59 | Canyon de Lampaul | N 47 36.685 | W 007 32.111 | 805 | POSE MOUILLAGE RANCH-01, module lâché |
| 8/16/21 | 10:01 | Canyon de Lampaul | N 47 36.685 | W 007 32.110 | 804 | Vue du module à la caméra science |
| 8/16/21 | 10:05 | Canyon de Lampaul | N 47 36.685 | W 007 32.110 | 804 | Vue du module à la caméra science |
| 8/16/21 | 10:06 | Canyon de Lampaul | N 47 36.685 | W 007 32.109 | 803 | Fin de manip RANCH |
| 8/16/21 | 10:06 | Canyon de Lampaul | N 47 36.685 | W 007 32.109 | 803 | debut transect vidéo au dessus du module pour l'environnement |
| 8/16/21 | 10:10 | Canyon de Lampaul | N 47 36.685 | W 007 32.108 | 800 | fin transect video, sommet de la marche recouverte d'huitres |
| 8/16/21 | 10:11 | Canyon de Lampaul | N 47 36.685 | W 007 32.109 | 800 | tentative prelevement sommert mur a huitres |
| 8/16/21 | 10:12 | Canyon de Lampaul | N 47 36.684 | W 007 32.111 | 800 | on se pose pour prelevement |
| 8/16/21 | 10:15 | Canyon de Lampaul | N 47 36.684 | W 007 32.112 | 799 | on va prelever cette colonie |
| 8/16/21 | 10:17 | Canyon de Lampaul | N 47 36.684 | W 007 32.112 | 799 | on va chercher celui au dessus, position trop dure a tenir ici |
| 8/16/21 | 10:17 | Canyon de Lampaul | N 47 36.684 | W 007 32.111 | 799 | on vise celui la |
| 8/16/21 | 10:19 | Canyon de | N 47 | W 007 | 798 | on essaie de se poser pour prelever cette |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 36.684 | 32.111 | | colonie |
| 8/16/21 | 10:24 | Canyon de Lampaul | N 47 36.685 | W 007 32.111 | 798 | PRELEVEMEN CORAIL CB-C 2 : Madrepora |
| 8/16/21 | 10:26 | Canyon de Lampaul | N 47 36.685 | W 007 32.111 | 798 | Laché dans CB-C (une seule boite) |
| 8/16/21 | 10:26 | Canyon de Lampaul | N 47 36.685 | W 007 32.111 | 798 | on va faire un prelevemet eau |
| 8/16/21 | 10:32 | Canyon de Lampaul | N 47 36.685 | W 007 32.112 | 798 | ASPI1 |
| 8/16/21 | 10:32 | Canyon de Lampaul | N 47 36.685 | W 007 32.112 | 798 | on reprend le tuyau de l'aspi |
| 8/16/21 | 10:33 | Canyon de Lampaul | N 47 36.685 | W 007 32.112 | 798 | ASPI2 |
| 8/16/21 | 10:34 | Canyon de Lampaul | N 47 36.684 | W 007 32.112 | 798 | on rentre l'aspi |
| 8/16/21 | 10:36 | Canyon de Lampaul | N 47 36.684 | W 007 32.113 | 796 | changement de quart marie-claire et julie |
| 8/16/21 | 10:37 | Canyon de Lampaul | N 47 36.682 | W 007 32.111 | 797 | on range aspi |
| 8/16/21 | 10:38 | Canyon de Lampaul | N 47 36.680 | W 007 32.109 | 797 | aspi tombe, on le recupere |
| 8/16/21 | 10:41 | Canyon de Lampaul | N 47 36.678 | W 007 32.112 | 797 | on met aspi dans le panier |
| 8/16/21 | 10:42 | Canyon de Lampaul | N 47 36.678 | W 007 32.109 | 797 | on range les bras e on repart sur le profil |
| 8/16/21 | 10:44 | Canyon de Lampaul | N 47 36.681 | W 007 32.114 | 795 | CORAIL dense mort et vivant |
| 8/16/21 | 10:44 | Canyon de Lampaul | N 47 36.682 | W 007 32.117 | 792 | debut acquisition automatique APN 3s, on repart en explo |
| 8/16/21 | 10:45 | Canyon de Lampaul | N 47 36.685 | W 007 32.126 | 785 | CORAIL dense mort et vivant |
| 8/16/21 | 10:46 | Canyon de Lampaul | N 47 36.685 | W 007 32.137 | 783 | rebord falaise de craie |
| 8/16/21 | 10:47 | Canyon de Lampaul | N 47 36.687 | W 007 32.142 | 778 | penne 32 degres |
| 8/16/21 | 10:48 | Canyon de Lampaul | N 47 36.697 | W 007 32.150 | 777 | penne 6-7 degres |
| 8/16/21 | 10:48 | Canyon de Lampaul | N 47 36.700 | W 007 32.152 | 776 | CORAIL dense mort et vivant falaise |
| 8/16/21 | 10:51 | Canyon de Lampaul | N 47 36.710 | W 007 32.165 | 777 | suivi de falaise |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/16/21 | 10:53 | Canyon de Lampaul | N 47 36.719 | W 007 32.188 | 772 | rebord falaise |
| 8/16/21 | 10:54 | Canyon de Lampaul | N 47 36.721 | W 007 32.192 | 768 | on suit toujours la falaise |
| 8/16/21 | 10:55 | Canyon de Lampaul | N 47 36.722 | W 007 32.196 | 768 | CORAIL dense en patchs |
| 8/16/21 | 10:55 | Canyon de Lampaul | N 47 36.726 | W 007 32.200 | 767 | mur d'huitres |
| 8/16/21 | 10:56 | Canyon de Lampaul | N 47 36.729 | W 007 32.205 | 766 | CORAIL dense sur falaise et rebord |
| 8/16/21 | 10:57 | Canyon de Lampaul | N 47 36.735 | W 007 32.210 | 763 | mur d'huitres et CORAIL dense |
| 8/16/21 | 10:59 | Canyon de Lampaul | N 47 36.743 | W 007 32.213 | 759 | rebord de falaise nu, puis tombant couvert d'huitres et CORAIL isole |
| 8/16/21 | 11:00 | Canyon de Lampaul | N 47 36.753 | W 007 32.215 | 758 | camera science : CORAIL sur huitres |
| 8/16/21 | 11:01 | Canyon de Lampaul | N 47 36.763 | W 007 32.217 | 758 | rebord de falaise |
| 8/16/21 | 11:02 | Canyon de Lampaul | N 47 36.767 | W 007 32.218 | 757 | rebord de falaise sedimente, disparition coraux |
| 8/16/21 | 11:03 | Canyon de Lampaul | N 47 36.775 | W 007 32.221 | 756 | quelques huitres |
| 8/16/21 | 11:07 | Canyon de Lampaul | N 47 36.799 | W 007 32.238 | 749 | on est sur le haut de falaise , aucun coraux. On redescend un peu |
| 8/16/21 | 11:10 | Canyon de Lampaul | N 47 36.816 | W 007 32.237 | 747 | corail sur le rebord ? |
| 8/16/21 | 11:11 | Canyon de Lampaul | N 47 36.821 | W 007 32.231 | 752 | CORAIL mort |
| 8/16/21 | 11:11 | Canyon de Lampaul | N 47 36.825 | W 007 32.225 | 752 | PLEINE EAU |
| 8/16/21 | 11:13 | Canyon de Lampaul | N 47 36.837 | W 007 32.209 | 800 | falaise en visuel |
| 8/16/21 | 11:14 | Canyon de Lampaul | N 47 36.838 | W 007 32.209 | 803 | CORAIL dense sur rebord |
| 8/16/21 | 11:15 | Canyon de Lampaul | N 47 36.852 | W 007 32.203 | 804 | CORAILdense mort et queles vivants |
| 8/16/21 | 11:16 | Canyon de Lampaul | N 47 36.862 | W 007 32.200 | 801 | hui |
| 8/16/21 | 11:17 | Canyon de Lampaul | N 47 36.869 | W 007 32.196 | 799 | huitres coraux morts tres dense sur le rebord. Chalutage ?? |
| 8/16/21 | 11:18 | Canyon de | N 47 | W 007 | 797 | huitres et CORAIL vivant et mort |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 36.886 | 32.185 | | |
| 8/16/21 | 11:19 | Canyon de Lampaul | N 47 36.897 | W 007 32.180 | 795 | CORAIL et mur d'huitres |
| 8/16/21 | 11:20 | Canyon de Lampaul | N 47 36.898 | W 007 32.180 | 795 | stand by pour attendre le lest |
| 8/16/21 | 11:21 | Canyon de Lampaul | N 47 36.900 | W 007 32.180 | 795 | on repart |
| 8/16/21 | 11:21 | Canyon de Lampaul | N 47 36.901 | W 007 32.180 | 795 | camera science : CORAIL vivant sur huitres |
| 8/16/21 | 11:22 | Canyon de Lampaul | N 47 36.908 | W 007 32.180 | 795 | rebord de falaise plus sedimente |
| 8/16/21 | 11:23 | Canyon de Lampaul | N 47 36.910 | W 007 32.179 | 793 | DECHET plastique |
| 8/16/21 | 11:23 | Canyon de Lampaul | N 47 36.912 | W 007 32.178 | 794 | haut de faise plus sedimente : CORAIL mort dense, quelues colonies vivantes |
| 8/16/21 | 11:24 | Canyon de Lampaul | N 47 36.918 | W 007 32.173 | 792 | CORAIL dense pente 46 degres |
| 8/16/21 | 11:26 | Canyon de Lampaul | N 47 36.927 | W 007 32.170 | 801 | on regarde le rebord |
| 8/16/21 | 11:26 | Canyon de Lampaul | N 47 36.927 | W 007 32.172 | 799 | on regarde jardin de coraux sur rebord de falaise |
| 8/16/21 | 11:27 | Canyon de Lampaul | N 47 36.928 | W 007 32.178 | 794 | on explore le replat |
| 8/16/21 | 11:30 | Canyon de Lampaul | N 47 36.924 | W 007 32.189 | 784 | on essaie de se poser pour regarder la pente |
| 8/16/21 | 11:30 | Canyon de Lampaul | N 47 36.925 | W 007 32.189 | 785 | on est pose. pente a 21 degres |
| 8/16/21 | 11:31 | Canyon de Lampaul | N 47 36.926 | W 007 32.188 | 783 | changement de quart karine et marie-claire |
| 8/16/21 | 11:31 | Canyon de Lampaul | N 47 36.927 | W 007 32.192 | 782 | Recherche du plateau vu precedemment (jardin de corail) |
| 8/16/21 | 11:34 | Canyon de Lampaul | N 47 36.944 | W 007 32.216 | 783 | jardin de corail |
| 8/16/21 | 11:35 | Canyon de Lampaul | N 47 36.944 | W 007 32.220 | 783 | Narella? |
| 8/16/21 | 11:35 | Canyon de Lampaul | N 47 36.944 | W 007 32.221 | 782 | Pente 33 degrés |
| 8/16/21 | 11:41 | Canyon de Lampaul | N 47 36.952 | W 007 32.214 | 780 | Eponge |
| 8/16/21 | 11:42 | Canyon de Lampaul | N 47 36.952 | W 007 32.213 | 780 | Lopheilia et Madrepora sur jardin de coraux |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/16/21 | 11:42 | Canyon de Lampaul | N 47 36.952 | W 007 32.213 | 780 | Pente 30 degrés |
| 8/16/21 | 11:43 | Canyon de Lampaul | N 47 36.956 | W 007 32.226 | 777 | Chimère |
| 8/16/21 | 11:47 | Canyon de Lampaul | N 47 36.952 | W 007 32.268 | 770 | Descente dans une dépression, zone sédimentée, fin de jardin de coraux |
| 8/16/21 | 11:51 | Canyon de Lampaul | N 47 36.987 | W 007 32.236 | 761 | CORAIL: début jardin de coraux 50% |
| 8/16/21 | 11:52 | Canyon de Lampaul | N 47 36.998 | W 007 32.218 | 774 | CORAIL: jardin de coraux, pente -15 |
| 8/16/21 | 11:53 | Canyon de Lampaul | N 47 37.002 | W 007 32.211 | 777 | Marche |
| 8/16/21 | 11:55 | Canyon de Lampaul | N 47 37.021 | W 007 32.170 | 798 | SUBSTRAT: dur et meuble |
| 8/16/21 | 11:56 | Canyon de Lampaul | N 47 37.024 | W 007 32.163 | 798 | CORAIL: colonies isolées |
| 8/16/21 | 11:58 | Canyon de Lampaul | N 47 37.034 | W 007 32.143 | 794 | SUBSTRAT: meuble |
| 8/16/21 | 11:58 | Canyon de Lampaul | N 47 37.035 | W 007 32.141 | 793 | pas de coraux |
| 8/16/21 | 11:58 | Canyon de Lampaul | N 47 37.038 | W 007 32.131 | 797 | CORAIL: colonies isolées |
| 8/16/21 | 11:59 | Canyon de Lampaul | N 47 37.041 | W 007 32.125 | 802 | pente 25 degrés |
| 8/16/21 | 12:01 | Canyon de Lampaul | N 47 37.047 | W 007 32.106 | 819 | marche |
| 8/16/21 | 12:01 | Canyon de Lampaul | N 47 37.047 | W 007 32.106 | 823 | CORAIL: colonies peu denses |
| 8/16/21 | 12:01 | Canyon de Lampaul | N 47 37.050 | W 007 32.102 | 829 | CORAIL: colonies isolées |
| 8/16/21 | 12:03 | Canyon de Lampaul | N 47 37.055 | W 007 32.080 | 848 | Marche |
| 8/16/21 | 12:04 | Canyon de Lampaul | N 47 37.058 | W 007 32.074 | 859 | CORAIL: colonies isolées |
| 8/16/21 | 12:05 | Canyon de Lampaul | N 47 37.061 | W 007 32.067 | 867 | Pente 20 |
| 8/16/21 | 12:07 | Canyon de Lampaul | N 47 37.071 | W 007 32.051 | 870 | petites rides et colonies au sommet |
| 8/16/21 | 12:09 | Canyon de Lampaul | N 47 37.086 | W 007 32.039 | 878 | SUBSTRAT: sediment |
| 8/16/21 | 12:12 | Canyon de | N 47 | W 007 | 864 | antipathaire |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 37.118 | 32.065 | | |
| 8/16/21 | 12:12 | Canyon de Lampaul | N 47 37.119 | W 007 32.064 | 862 | antipathaire |
| 8/16/21 | 12:13 | Canyon de Lampaul | N 47 37.122 | W 007 32.062 | 863 | SUBSTRAT: dur et sediment |
| 8/16/21 | 12:17 | Canyon de Lampaul | N 47 37.099 | W 007 32.023 | 883 | requin |
| 8/16/21 | 12:19 | Canyon de Lampaul | N 47 37.071 | W 007 32.021 | 889 | colonie isolee |
| 8/16/21 | 12:20 | Canyon de Lampaul | N 47 37.067 | W 007 32.023 | 887 | marche et coraux |
| 8/16/21 | 12:21 | Canyon de Lampaul | N 47 37.053 | W 007 32.029 | 884 | SUBSTRAT: meuble |
| 8/16/21 | 12:23 | Canyon de Lampaul | N 47 37.042 | W 007 32.006 | 898 | Lotte |
| 8/16/21 | 12:24 | Canyon de Lampaul | N 47 37.041 | W 007 32.005 | 900 | Lotte et Cidaris |
| 8/16/21 | 12:26 | Canyon de Lampaul | N 47 37.072 | W 007 31.986 | 894 | sommet de falaise avec quelques coraux |
| 8/16/21 | 12:28 | Canyon de Lampaul | N 47 37.091 | W 007 31.984 | 890 | colonie isolee |
| 8/16/21 | 12:28 | Canyon de Lampaul | N 47 37.095 | W 007 31.985 | 887 | SUBSRAT: dur etsediments |
| 8/16/21 | 12:30 | Canyon de Lampaul | N 47 37.111 | W 007 31.987 | 880 | SUBSTRAT: Meuble |
| 8/16/21 | 12:38 | Canyon de Lampaul | N 47 37.187 | W 007 32.064 | 842 | SUBSTRAT: dur et sediment |
| 8/16/21 | 12:42 | Canyon de Lampaul | N 47 37.199 | W 007 32.142 | 807 | Marches sédimentées |
| 8/16/21 | 12:44 | Canyon de Lampaul | N 47 37.184 | W 007 32.165 | 786 | SUBSTRAT: meuble |
| 8/16/21 | 12:44 | Canyon de Lampaul | N 47 37.181 | W 007 32.170 | 782 | CORAIL: colonies isolées |
| 8/16/21 | 12:50 | Canyon de Lampaul | N 47 37.107 | W 007 32.186 | 778 | SUBSTRAT: dur |
| 8/16/21 | 12:51 | Canyon de Lampaul | N 47 37.104 | W 007 32.187 | 777 | marches et coraux |
| 8/16/21 | 12:52 | Canyon de Lampaul | N 47 37.106 | W 007 32.190 | 776 | huitres |
| 8/16/21 | 12:53 | Canyon de Lampaul | N 47 37.109 | W 007 32.191 | 776 | on attend le bateau |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---------------------------------|
| 8/16/21 | 12:54 | Canyon de Lampaul | N 47 37.102 | W 007 32.193 | 772 | CORAIL peu dense |
| 8/16/21 | 12:55 | Canyon de Lampaul | N 47 37.093 | W 007 32.196 | 765 | CORAIL isole |
| 8/16/21 | 12:56 | Canyon de Lampaul | N 47 37.086 | W 007 32.198 | 763 | CORAIL isole |
| 8/16/21 | 12:56 | Canyon de Lampaul | N 47 37.082 | W 007 32.199 | 760 | corail MORT |
| 8/16/21 | 12:57 | Canyon de Lampaul | N 47 37.069 | W 007 32.200 | 761 | corail ISOLE |
| 8/16/21 | 12:57 | Canyon de Lampaul | N 47 37.062 | W 007 32.201 | 761 | SUBSTRAT meuble |
| 8/16/21 | 13:00 | Canyon de Lampaul | N 47 37.030 | W 007 32.195 | 774 | CORAIL peu dense |
| 8/16/21 | 13:00 | Canyon de Lampaul | N 47 37.025 | W 007 32.193 | 777 | SUBSTRAT dur et sediment |
| 8/16/21 | 13:01 | Canyon de Lampaul | N 47 37.006 | W 007 32.184 | 776 | SUBSTRAT meuble |
| 8/16/21 | 13:02 | Canyon de Lampaul | N 47 37.003 | W 007 32.185 | 771 | STOP on attend le bateau |
| 8/16/21 | 13:04 | Canyon de Lampaul | N 47 36.974 | W 007 32.182 | 782 | on repart |
| 8/16/21 | 13:05 | Canyon de Lampaul | N 47 36.970 | W 007 32.181 | 783 | SUBSTRAT dur falaise |
| 8/16/21 | 13:08 | Canyon de Lampaul | N 47 36.958 | W 007 32.204 | 788 | CORAIL peu dense falaise |
| 8/16/21 | 13:09 | Canyon de Lampaul | N 47 36.956 | W 007 32.215 | 785 | faille |
| 8/16/21 | 13:10 | Canyon de Lampaul | N 47 36.950 | W 007 32.213 | 787 | Narella |
| 8/16/21 | 13:10 | Canyon de Lampaul | N 47 36.948 | W 007 32.211 | 785 | CORAIL mort et vivant peu dense |
| 8/16/21 | 13:12 | Canyon de Lampaul | N 47 36.953 | W 007 32.204 | 785 | Fin de plongee |

6.10. Dive: 207 - 10

Date: **18/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|--|
| 18/08/2021 | 08:00 | Olu Karine, Fezzani Ridha, Fabri Marie-Claire, Karoui Imen |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

6.10.1. Objectives

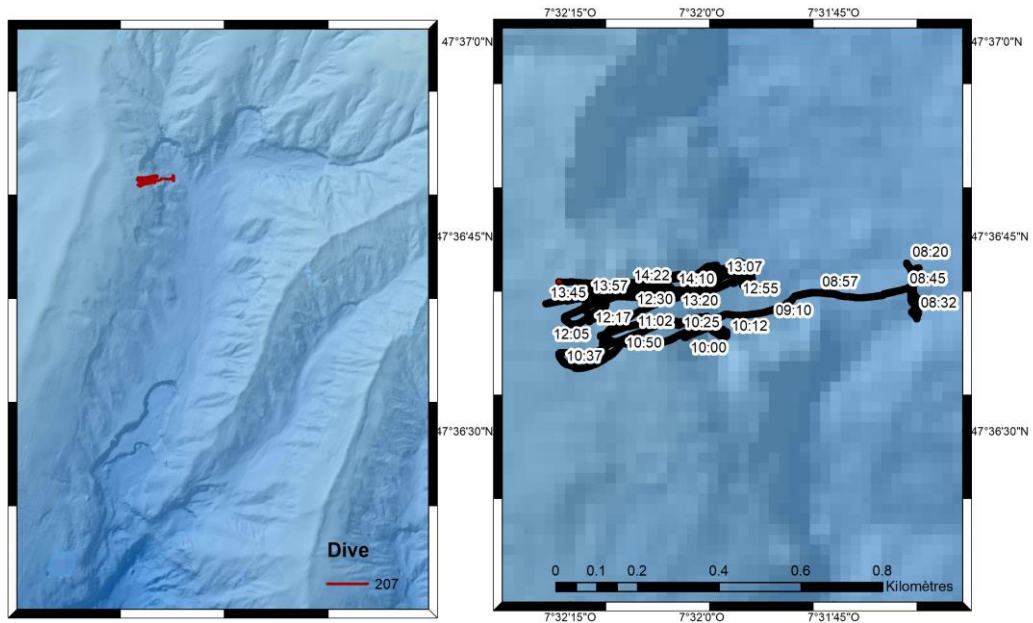
MEBS and OPTIC surveys along the upper cliff (falaise 1) at 40 m altitude and if possible 20 m altitude.

Estimating rolling bias back and forth along a 100 m transect

6.10.2. Work abstract

- 0 Sample operations
- 0 Measures
- 0 Moorings
- 72 Images

6.10.3. Map



6.10.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/18/21 | 08:12 | Canyon de Lampaul | N 47 36.727 | W 007 31.616 | 1155 | Arrivee au fond |
| 8/18/21 | 08:19 | Canyon de Lampaul | N 47 36.721 | W 007 31.613 | 1222 | Debut profil Calibration ALLER (400 kHz, 40m) |
| 8/18/21 | 08:27 | Canyon de Lampaul | N 47 36.658 | W 007 31.591 | 1219 | fin profil |
| 8/18/21 | 08:30 | Canyon de Lampaul | N 47 36.647 | W 007 31.593 | 1224 | Retour profil calibration RETOUR (400 kHz, altitude 40m) |
| 8/18/21 | 08:39 | Canyon de Lampaul | N 47 36.708 | W 007 31.590 | 1233 | fin de profil |
| 8/18/21 | 08:42 | Canyon de Lampaul | N 47 36.685 | W 007 31.605 | 1228 | Debut profil P1 Falaise 1 - 400 kHz - altitude 40m |
| 8/18/21 | 09:40 | Canyon de Lampaul | N 47 36.629 | W 007 32.165 | 728 | fin de profil, clampage |
| 8/18/21 | 10:11 | Canyon de Lampaul | N 47 36.624 | W 007 31.954 | 918 | on descend pres du fond |
| 8/18/21 | 10:16 | Canyon de Lampaul | N 47 36.622 | W 007 31.966 | 946 | declampage |
| 8/18/21 | 10:16 | Canyon de | N 47 | W 007 | 949 | demarage enregistrement et photo |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 36.623 | 31.967 | | |
| 8/18/21 | 10:20 | Canyon de Lampaul | N 47 36.647 | W 007 31.993 | 915 | debut de profil P1 Falaise 1 - altitude 5m - OPTIQUE |
| 8/18/21 | 10:20 | Canyon de Lampaul | N 47 36.646 | W 007 31.997 | 913 | CORAIL et huitres |
| 8/18/21 | 10:20 | Canyon de Lampaul | N 47 36.645 | W 007 31.998 | 909 | CORAIL peu dense |
| 8/18/21 | 10:21 | Canyon de Lampaul | N 47 36.645 | W 007 32.008 | 896 | CORAIL Peu dense |
| 8/18/21 | 10:22 | Canyon de Lampaul | N 47 36.645 | W 007 32.013 | 890 | SUBSTRAT dur et peu de sediment |
| 8/18/21 | 10:23 | Canyon de Lampaul | N 47 36.642 | W 007 32.021 | 881 | courant porte au sud |
| 8/18/21 | 10:25 | Canyon de Lampaul | N 47 36.636 | W 007 32.046 | 855 | SUBSTRAT dur en alternance avec meuble, marches |
| 8/18/21 | 10:25 | Canyon de Lampaul | N 47 36.637 | W 007 32.055 | 848 | CORAIL isole |
| 8/18/21 | 10:26 | Canyon de Lampaul | N 47 36.638 | W 007 32.066 | 832 | CORAIL peu dense, colonies mortes et un de vivant |
| 8/18/21 | 10:28 | Canyon de Lampaul | N 47 36.634 | W 007 32.090 | 804 | SUBSTRAT meuble |
| 8/18/21 | 10:30 | Canyon de Lampaul | N 47 36.619 | W 007 32.144 | 789 | SUSBTRAT meuble, CORAIL peu dense |
| 8/18/21 | 10:31 | Canyon de Lampaul | N 47 36.613 | W 007 32.168 | 784 | RIDES colonisees par corail mort et vivants |
| 8/18/21 | 10:31 | Canyon de Lampaul | N 47 36.607 | W 007 32.186 | 779 | On poursuit le profil a 5m, suite P1 |
| 8/18/21 | 10:37 | Canyon de Lampaul | N 47 36.599 | W 007 32.271 | 735 | Fin de profil suite P1 |
| 8/18/21 | 10:40 | Canyon de Lampaul | N 47 36.585 | W 007 32.254 | 711 | Fin profil - Arret enregistrement video |
| 8/18/21 | 10:41 | Canyon de Lampaul | N 47 36.584 | W 007 32.252 | 711 | PLEINE EAU |
| 8/18/21 | 11:24 | Canyon de Lampaul | N 47 36.709 | W 007 31.909 | 1032 | debut de profil P2 Falaise 1 - altitude 40m - 400 kHz |
| 8/18/21 | 11:52 | Canyon de Lampaul | N 47 36.647 | W 007 32.258 | 691 | fin de profil |
| 8/18/21 | 11:52 | Canyon de Lampaul | N 47 36.646 | W 007 32.260 | 691 | clampage + plein eau |
| 8/18/21 | 12:51 | Canyon de Lampaul | N 47 36.700 | W 007 31.918 | 1094 | On voit le fond |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/18/21 | 12:52 | Canyon de Lampaul | N 47 36.698 | W 007 31.923 | 1094 | CORAIL isole |
| 8/18/21 | 12:52 | Canyon de Lampaul | N 47 36.698 | W 007 31.922 | 1091 | SUBSTRAT dur et peu de sediment |
| 8/18/21 | 12:53 | Canyon de Lampaul | N 47 36.697 | W 007 31.928 | 1087 | CORAIL isole |
| 8/18/21 | 12:55 | Canyon de Lampaul | N 47 36.703 | W 007 31.939 | 1088 | CORAIL isole |
| 8/18/21 | 12:57 | Canyon de Lampaul | N 47 36.700 | W 007 31.939 | 1081 | on recule pour rejoindre le debut de profil |
| 8/18/21 | 12:58 | Canyon de Lampaul | N 47 36.699 | W 007 31.930 | 1081 | PLEINE EAU |
| 8/18/21 | 13:03 | Canyon de Lampaul | N 47 36.698 | W 007 31.935 | 1094 | Debut de profil P2 Falaise 1 - altitude 5m - OPTIQUE |
| 8/18/21 | 13:04 | Canyon de Lampaul | N 47 36.699 | W 007 31.943 | 1082 | CORAIL isole |
| 8/18/21 | 13:05 | Canyon de Lampaul | N 47 36.699 | W 007 31.945 | 1079 | SUBSTRAT dur |
| 8/18/21 | 13:05 | Canyon de Lampaul | N 47 36.699 | W 007 31.946 | 1077 | CORAIL isole sur aretes |
| 8/18/21 | 13:07 | Canyon de Lampaul | N 47 36.697 | W 007 31.964 | 1050 | CORAIL isole |
| 8/18/21 | 13:07 | Canyon de Lampaul | N 47 36.696 | W 007 31.966 | 1048 | SUBSTRAT dur et sediment |
| 8/18/21 | 13:10 | Canyon de Lampaul | N 47 36.687 | W 007 31.990 | 1029 | SEDIMENT meuble |
| 8/18/21 | 13:11 | Canyon de Lampaul | N 47 36.685 | W 007 32.003 | 1021 | SUSBTRAT dur et sediment |
| 8/18/21 | 13:11 | Canyon de Lampaul | N 47 36.684 | W 007 32.005 | 1018 | CORAIL isole |
| 8/18/21 | 13:11 | Canyon de Lampaul | N 47 36.684 | W 007 32.010 | 1016 | CORAIL peu dense |
| 8/18/21 | 13:13 | Canyon de Lampaul | N 47 36.683 | W 007 32.018 | 1016 | HUITRES |
| 8/18/21 | 13:13 | Canyon de Lampaul | N 47 36.683 | W 007 32.018 | 1016 | CORAIL isole |
| 8/18/21 | 13:15 | Canyon de Lampaul | N 47 36.682 | W 007 32.028 | 1016 | DECHET peche, ligne qui semble colonisee |
| 8/18/21 | 13:17 | Canyon de Lampaul | N 47 36.681 | W 007 32.039 | 1016 | huitres |
| 8/18/21 | 13:18 | Canyon de | N 47 | W 007 | 1016 | CORAIL peu dense |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 36.681 | 32.041 | | |
| 8/18/21 | 13:19 | Canyon de Lampaul | N 47 36.681 | W 007 32.043 | 935 | CORAIL mort et vivant peu dense |
| 8/18/21 | 13:20 | Canyon de Lampaul | N 47 36.681 | W 007 32.049 | 925 | CORAIL isole |
| 8/18/21 | 13:20 | Canyon de Lampaul | N 47 36.681 | W 007 32.053 | 920 | CORAIL peu dense |
| 8/18/21 | 13:21 | Canyon de Lampaul | N 47 36.681 | W 007 32.059 | 911 | CORAIL peu dense |
| 8/18/21 | 13:21 | Canyon de Lampaul | N 47 36.681 | W 007 32.063 | 902 | Huitres mortes et CORAIL mort et vivant dense |
| 8/18/21 | 13:22 | Canyon de Lampaul | N 47 36.681 | W 007 32.064 | 895 | Huitres et CORAIL dense |
| 8/18/21 | 13:22 | Canyon de Lampaul | N 47 36.681 | W 007 32.066 | 892 | SUBSTRAT meuble |
| 8/18/21 | 13:26 | Canyon de Lampaul | N 47 36.680 | W 007 32.120 | 837 | HUITRES |
| 8/18/21 | 13:28 | Canyon de Lampaul | N 47 36.683 | W 007 32.142 | 816 | HUITRES |
| 8/18/21 | 13:28 | Canyon de Lampaul | N 47 36.683 | W 007 32.146 | 813 | CORAIL peu dense |
| 8/18/21 | 13:29 | Canyon de Lampaul | N 47 36.684 | W 007 32.148 | 810 | CORAIL mort et vivant peu dense |
| 8/18/21 | 13:29 | Canyon de Lampaul | N 47 36.685 | W 007 32.151 | 803 | CORAIL mort et vivant peu dense |
| 8/18/21 | 13:32 | Canyon de Lampaul | N 47 36.686 | W 007 32.180 | 781 | CORAIL peu dense a dense |
| 8/18/21 | 13:32 | Canyon de Lampaul | N 47 36.686 | W 007 32.183 | 782 | sucession de zones de coraux morts bancs de substrat dur avec coraux et jardins de coraux |
| 8/18/21 | 13:33 | Canyon de Lampaul | N 47 36.685 | W 007 32.193 | 777 | zone plate |
| 8/18/21 | 13:34 | Canyon de Lampaul | N 47 36.684 | W 007 32.195 | 780 | SUBSTRAT meuble |
| 8/18/21 | 13:35 | Canyon de Lampaul | N 47 36.683 | W 007 32.208 | 774 | fin de profil theorique, on poursuit comme pour le precedent |
| 8/18/21 | 13:39 | Canyon de Lampaul | N 47 36.675 | W 007 32.244 | 766 | Fin de profil P2 OPTIQUE |
| 8/18/21 | 13:46 | Canyon de Lampaul | N 47 36.667 | W 007 32.271 | 715 | declampage |
| 8/18/21 | 14:14 | Canyon de | N 47 | W 007 | 861 | debut de profil a 20m, pas de temps, plus |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|----------------------|----------------|-----------------|----------|----------------|
| | | Lampaul | 36.687 | 32.072 | | de batterie |
| 8/18/21 | 14:33 | Canyon de Lampaul | N 47 36.691 | W 007 32.270 | 730 | fin de plongée |

6.11. Dive: 208 - 11

Date: **19/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|--|
| 19/08/2021 | 08:00 | Olu Karine, Fezzani Ridha, Fabri Marie-Claire, Karoui Imen |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

6.11.1. Objectives

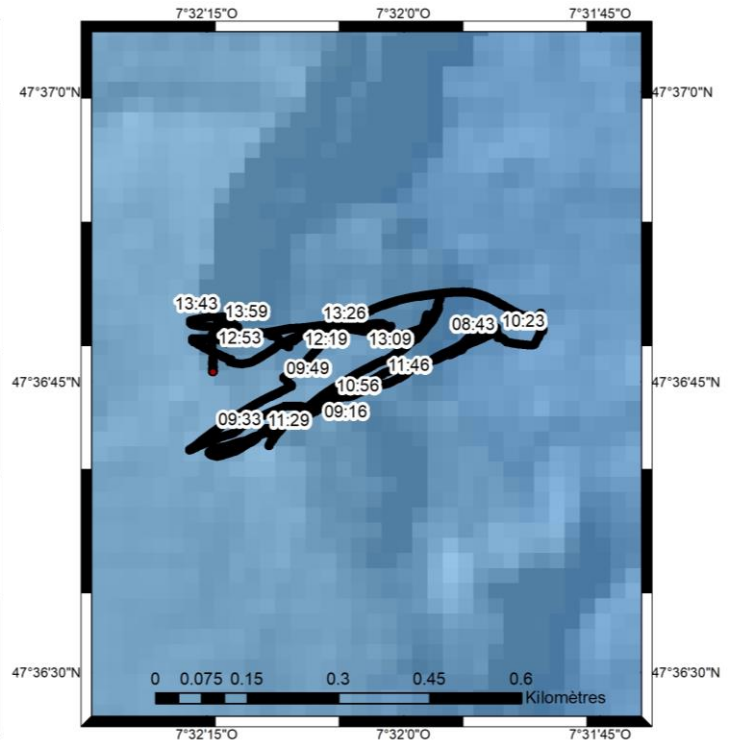
MEBS and OPTIC surveys along the upper cliff (falaise 1) at 30 m and 5 m altitude.

Estimating rolling bias back and forth along a 200 m transect

6.11.2. Work abstract

- 0 Sample operations
- 0 Measures
- 0 Moorings
- 109 Images

6.11.3. Map



6.11.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/19/21 | 07:58 | Canyon de Lampaul | N 47 36.912 | W 007 31.917 | 973 | Declampage |
| 8/19/21 | 08:15 | Canyon de Lampaul | N 47 36.819 | W 007 31.912 | 1107 | debut ALLER calibration |
| 8/19/21 | 08:15 | Canyon de Lampaul | N 47 36.815 | W 007 31.909 | 1107 | fin |
| 8/19/21 | 08:34 | Canyon de Lampaul | N 47 36.724 | W 007 31.838 | 1117 | début RETOUR calibration sens retour |
| 8/19/21 | 08:35 | Canyon de Lampaul | N 47 36.726 | W 007 31.839 | 1119 | fin |
| 8/19/21 | 08:43 | Canyon de Lampaul | N 47 36.795 | W 007 31.884 | 1124 | debut de profil P3 Falaise 1 - altitude 30 m - 400 kHz |
| 8/19/21 | 08:46 | Canyon de Lampaul | N 47 36.796 | W 007 31.890 | 1120 | fin de profil |
| 8/19/21 | 09:29 | Canyon de Lampaul | N 47 36.691 | W 007 32.272 | 715 | Arrivee sur le fond, video demarree |
| 8/19/21 | 10:22 | Canyon de Lampaul | N 47 36.787 | W 007 31.873 | 1174 | on va rejoindre le debut de profil |
| 8/19/21 | 10:22 | Canyon de Lampaul | N 47 36.791 | W 007 31.882 | 1174 | substrat meuble |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/19/21 | 10:24 | Canyon de Lampaul | N 47 36.793 | W 007 31.881 | 1176 | debut du profil |
| 8/19/21 | 10:24 | Canyon de Lampaul | N 47 36.793 | W 007 31.882 | 1176 | debut profil P3 Falaise 1 - OPTIQUE - altitude 5m |
| 8/19/21 | 10:24 | Canyon de Lampaul | N 47 36.792 | W 007 31.886 | 1173 | Substrat meuble |
| 8/19/21 | 10:25 | Canyon de Lampaul | N 47 36.787 | W 007 31.904 | 1161 | requin |
| 8/19/21 | 10:25 | Canyon de Lampaul | N 47 36.785 | W 007 31.908 | 1157 | autre requin |
| 8/19/21 | 10:26 | Canyon de Lampaul | N 47 36.782 | W 007 31.918 | 1148 | bloc rocheux |
| 8/19/21 | 10:26 | Canyon de Lampaul | N 47 36.781 | W 007 31.922 | 1144 | colonies isolees |
| 8/19/21 | 10:29 | Canyon de Lampaul | N 47 36.773 | W 007 31.940 | 1126 | SUBSTRAT meuble |
| 8/19/21 | 10:29 | Canyon de Lampaul | N 47 36.773 | W 007 31.946 | 1122 | bloc rocheux avec beaucoup de sediment |
| 8/19/21 | 10:30 | Canyon de Lampaul | N 47 36.770 | W 007 31.958 | 1111 | Substrat meuble avec beaucoup de sediment |
| 8/19/21 | 10:31 | Canyon de Lampaul | N 47 36.767 | W 007 31.967 | 1105 | bloc rocheux |
| 8/19/21 | 10:31 | Canyon de Lampaul | N 47 36.766 | W 007 31.972 | 1099 | Colonies isolees |
| 8/19/21 | 10:33 | Canyon de Lampaul | N 47 36.763 | W 007 31.982 | 1083 | falaise |
| 8/19/21 | 10:34 | Canyon de Lampaul | N 47 36.763 | W 007 31.984 | 1071 | strates |
| 8/19/21 | 10:34 | Canyon de Lampaul | N 47 36.761 | W 007 31.987 | 1066 | Substrat dur rugueux avec peu de sediment |
| 8/19/21 | 10:36 | Canyon de Lampaul | N 47 36.751 | W 007 32.013 | 1029 | colonies isolees |
| 8/19/21 | 10:37 | Canyon de Lampaul | N 47 36.749 | W 007 32.018 | 1026 | debris? roches stratifiee |
| 8/19/21 | 10:40 | Canyon de Lampaul | N 47 36.747 | W 007 32.039 | 1009 | Recifs coraux morts |
| 8/19/21 | 10:41 | Canyon de Lampaul | N 47 36.744 | W 007 32.050 | 995 | Recifs coraux morts et vivant |
| 8/19/21 | 10:41 | Canyon de Lampaul | N 47 36.743 | W 007 32.050 | 992 | DECHETS ligne de peche |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/19/21 | 10:43 | Canyon de Lampaul | N 47 36.747 | W 007 32.055 | 988 | on s éloigne de la falaise |
| 8/19/21 | 10:43 | Canyon de Lampaul | N 47 36.747 | W 007 32.056 | 989 | Debris |
| 8/19/21 | 10:44 | Canyon de Lampaul | N 47 36.744 | W 007 32.061 | 981 | Corail |
| 8/19/21 | 10:44 | Canyon de Lampaul | N 47 36.743 | W 007 32.060 | 975 | Substrat dur rugueux |
| 8/19/21 | 10:45 | Canyon de Lampaul | N 47 36.742 | W 007 32.062 | 969 | bancs Huitres |
| 8/19/21 | 10:46 | Canyon de Lampaul | N 47 36.740 | W 007 32.064 | 961 | Corail dense |
| 8/19/21 | 10:46 | Canyon de Lampaul | N 47 36.739 | W 007 32.065 | 954 | Grosses colonies |
| 8/19/21 | 10:48 | Canyon de Lampaul | N 47 36.741 | W 007 32.069 | 946 | huitre et coraux denses |
| 8/19/21 | 10:49 | Canyon de Lampaul | N 47 36.741 | W 007 32.071 | 939 | lignede peche colonisee par des coraux |
| 8/19/21 | 10:51 | Canyon de Lampaul | N 47 36.740 | W 007 32.074 | 914 | banc d huitres |
| 8/19/21 | 10:52 | Canyon de Lampaul | N 47 36.741 | W 007 32.080 | 907 | Coraux peu dense |
| 8/19/21 | 10:53 | Canyon de Lampaul | N 47 36.739 | W 007 32.084 | 902 | Colonies de grande taille |
| 8/19/21 | 10:53 | Canyon de Lampaul | N 47 36.738 | W 007 32.087 | 889 | Coraux denses |
| 8/19/21 | 10:55 | Canyon de Lampaul | N 47 36.736 | W 007 32.091 | 883 | colonies mortes et vivantes |
| 8/19/21 | 10:57 | Canyon de Lampaul | N 47 36.738 | W 007 32.093 | 888 | grosses colonies zoom |
| 8/19/21 | 10:57 | Canyon de Lampaul | N 47 36.738 | W 007 32.093 | 887 | grosses colonies |
| 8/19/21 | 10:58 | Canyon de Lampaul | N 47 36.737 | W 007 32.092 | 887 | Grosses colonies mortes et vivantes |
| 8/19/21 | 10:59 | Canyon de Lampaul | N 47 36.734 | W 007 32.096 | 881 | Strates colonisees |
| 8/19/21 | 11:00 | Canyon de Lampaul | N 47 36.733 | W 007 32.097 | 876 | Coraux et bancs d huitre |
| 8/19/21 | 11:00 | Canyon de Lampaul | N 47 36.732 | W 007 32.098 | 874 | Corail mort et vivnat substrat dur avec peuse sediment |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/19/21 | 11:01 | Canyon de Lampaul | N 47 36.728 | W 007 32.103 | 862 | Corail peu dense |
| 8/19/21 | 11:02 | Canyon de Lampaul | N 47 36.727 | W 007 32.107 | 858 | DECHETS ligne de peche colonisee par des coraux |
| 8/19/21 | 11:03 | Canyon de Lampaul | N 47 36.725 | W 007 32.112 | 849 | marches |
| 8/19/21 | 11:04 | Canyon de Lampaul | N 47 36.725 | W 007 32.113 | 847 | Coraux morts dense et vivant peu dense |
| 8/19/21 | 11:06 | Canyon de Lampaul | N 47 36.720 | W 007 32.128 | 826 | zone plate avec CORAIL mort et vivant pas tres dense |
| 8/19/21 | 11:06 | Canyon de Lampaul | N 47 36.719 | W 007 32.132 | 821 | banc d huitres |
| 8/19/21 | 11:07 | Canyon de Lampaul | N 47 36.720 | W 007 32.135 | 820 | Grosses colonies CORAIL dense sur des huitres |
| 8/19/21 | 11:10 | Canyon de Lampaul | N 47 36.719 | W 007 32.136 | 814 | CORAIL Colonies mortes et vivantes |
| 8/19/21 | 11:11 | Canyon de Lampaul | N 47 36.716 | W 007 32.141 | 804 | alternance BANC D HUITRES et coraux |
| 8/19/21 | 11:12 | Canyon de Lampaul | N 47 36.713 | W 007 32.149 | 789 | CORAIL peu dense jardin |
| 8/19/21 | 11:12 | Canyon de Lampaul | N 47 36.713 | W 007 32.152 | 787 | jardin de CORAIL peu dense a dense |
| 8/19/21 | 11:13 | Canyon de Lampaul | N 47 36.712 | W 007 32.161 | 782 | bloc de roche |
| 8/19/21 | 11:14 | Canyon de Lampaul | N 47 36.709 | W 007 32.167 | 780 | continuite du jardin de CORAIL |
| 8/19/21 | 11:14 | Canyon de Lampaul | N 47 36.709 | W 007 32.168 | 780 | Substrat dur avec plus de sediment |
| 8/19/21 | 11:15 | Canyon de Lampaul | N 47 36.706 | W 007 32.176 | 774 | PLEINE EAU |
| 8/19/21 | 11:15 | Canyon de Lampaul | N 47 36.705 | W 007 32.181 | 775 | Substrat meuble |
| 8/19/21 | 11:19 | Canyon de Lampaul | N 47 36.694 | W 007 32.226 | 764 | Ride de sable |
| 8/19/21 | 11:20 | Canyon de Lampaul | N 47 36.693 | W 007 32.234 | 761 | Fin de profil |
| 8/19/21 | 12:04 | Canyon de Lampaul | N 47 36.790 | W 007 32.010 | 1012 | Debut de profil P4 Falaise 1 - altitude 30m - 400 kHz |
| 8/19/21 | 12:49 | Canyon de Lampaul | N 47 36.787 | W 007 32.257 | 713 | fin de profil |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/19/21 | 12:55 | Canyon de Lampaul | N 47 36.768 | W 007 32.220 | 713 | clampage |
| 8/19/21 | 13:19 | Canyon de Lampaul | N 47 36.799 | W 007 32.024 | 1027 | on arrive devant debut profil |
| 8/19/21 | 13:19 | Canyon de Lampaul | N 47 36.801 | W 007 32.028 | 1022 | Debut profil P4 Falaise 1 OPTIQUE - altitude 5m |
| 8/19/21 | 13:20 | Canyon de Lampaul | N 47 36.801 | W 007 32.032 | 1020 | Substrat dur rugueux avec beaucoup de sediment |
| 8/19/21 | 13:21 | Canyon de Lampaul | N 47 36.800 | W 007 32.044 | 1015 | CORAIL peu dense sur roche |
| 8/19/21 | 13:22 | Canyon de Lampaul | N 47 36.800 | W 007 32.049 | 1009 | Substrat dur rugeux avec beaucoup de sediment |
| 8/19/21 | 13:25 | Canyon de Lampaul | N 47 36.799 | W 007 32.092 | 983 | bloc de roche anguleux |
| 8/19/21 | 13:28 | Canyon de Lampaul | N 47 36.796 | W 007 32.141 | 951 | CORAIL isolé |
| 8/19/21 | 13:28 | Canyon de Lampaul | N 47 36.795 | W 007 32.151 | 941 | Substrat dur rugueux avec peu de sediment |
| 8/19/21 | 13:29 | Canyon de Lampaul | N 47 36.794 | W 007 32.162 | 927 | Banc d huitres |
| 8/19/21 | 13:30 | Canyon de Lampaul | N 47 36.793 | W 007 32.167 | 919 | Corail sur les arretes |
| 8/19/21 | 13:31 | Canyon de Lampaul | N 47 36.792 | W 007 32.184 | 905 | Substrat dur rugueux |
| 8/19/21 | 13:33 | Canyon de Lampaul | N 47 36.791 | W 007 32.193 | 886 | Banc d huitre |
| 8/19/21 | 13:33 | Canyon de Lampaul | N 47 36.791 | W 007 32.195 | 881 | banc d huitre |
| 8/19/21 | 13:34 | Canyon de Lampaul | N 47 36.791 | W 007 32.201 | 865 | Sediment consolide |
| 8/19/21 | 13:35 | Canyon de Lampaul | N 47 36.792 | W 007 32.204 | 852 | alternance sediment consolide et banc d huitre |
| 8/19/21 | 13:35 | Canyon de Lampaul | N 47 36.793 | W 007 32.209 | 850 | cidaris |
| 8/19/21 | 13:36 | Canyon de Lampaul | N 47 36.793 | W 007 32.208 | 847 | banc d huitre |
| 8/19/21 | 13:37 | Canyon de Lampaul | N 47 36.794 | W 007 32.217 | 827 | Colonies mortes DEBRIS |
| 8/19/21 | 13:40 | Canyon de Lampaul | N 47 36.802 | W 007 32.231 | 801 | BANC D HUITRES |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/19/21 | 13:41 | Canyon de Lampaul | N 47 36.806 | W 007 32.238 | 786 | corail PEU DENSE MORT ET VIVANT |
| 8/19/21 | 13:41 | Canyon de Lampaul | N 47 36.806 | W 007 32.240 | 784 | mur d huitres avec CORAIL Madrepora et LOPHELIA |
| 8/19/21 | 13:43 | Canyon de Lampaul | N 47 36.806 | W 007 32.243 | 761 | Roche calcaire lisse |
| 8/19/21 | 13:45 | Canyon de Lampaul | N 47 36.804 | W 007 32.261 | 748 | Substrat dur avec beaucoup de sediment |
| 8/19/21 | 13:49 | Canyon de Lampaul | N 47 36.798 | W 007 32.246 | 740 | CALMAR |
| 8/19/21 | 13:49 | Canyon de Lampaul | N 47 36.797 | W 007 32.244 | 740 | Fin de profil, ON RETOURNE SUR LE BANC D HUITRE (mur) |
| 8/19/21 | 13:50 | Canyon de Lampaul | N 47 36.797 | W 007 32.240 | 740 | pleine eau |
| 8/19/21 | 13:54 | Canyon de Lampaul | N 47 36.798 | W 007 32.219 | 816 | banc d huitres |
| 8/19/21 | 13:57 | Canyon de Lampaul | N 47 36.804 | W 007 32.220 | 814 | Retour sur le mur d'huitres, immersion 800 m, pour exploration horizontale |
| 8/19/21 | 13:58 | Canyon de Lampaul | N 47 36.806 | W 007 32.231 | 803 | vue du mur d'huitres |
| 8/19/21 | 13:58 | Canyon de Lampaul | N 47 36.804 | W 007 32.233 | 803 | on se déplace vers le sud en suivant la strate, avec pour objectif de retrouver les coraux vus sur le profil precedent |
| 8/19/21 | 13:59 | Canyon de Lampaul | N 47 36.798 | W 007 32.237 | 798 | en route vers le sud |
| 8/19/21 | 14:03 | Canyon de Lampaul | N 47 36.784 | W 007 32.244 | 777 | CORAIL sur huitres, assez grande taille, avec des colonies mortes |
| 8/19/21 | 14:05 | Canyon de Lampaul | N 47 36.777 | W 007 32.243 | 773 | on suit toujours le banc d'huitres |
| 8/19/21 | 14:06 | Canyon de Lampaul | N 47 36.768 | W 007 32.242 | 769 | vers le haut |
| 8/19/21 | 14:06 | Canyon de Lampaul | N 47 36.767 | W 007 32.243 | 766 | CORAIL grandes colonies bicolores |
| 8/19/21 | 14:08 | Canyon de Lampaul | N 47 36.759 | W 007 32.242 | 766 | CORAIL colonies de plus en plus denses, sur le mur d'huitres |
| 8/19/21 | 14:11 | Canyon de Lampaul | N 47 36.760 | W 007 32.235 | 752 | Plus de batteries |
| 8/19/21 | 14:11 | Canyon de Lampaul | N 47 36.760 | W 007 32.235 | 750 | Fin de plongee |

6.12. Dive: 209 - 12

Date: **20/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|--|
| 20/08/2021 | 09:00 | Olu Karine, Fezzani Ridha, Fabri Marie-Claire, Karoui Imen |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

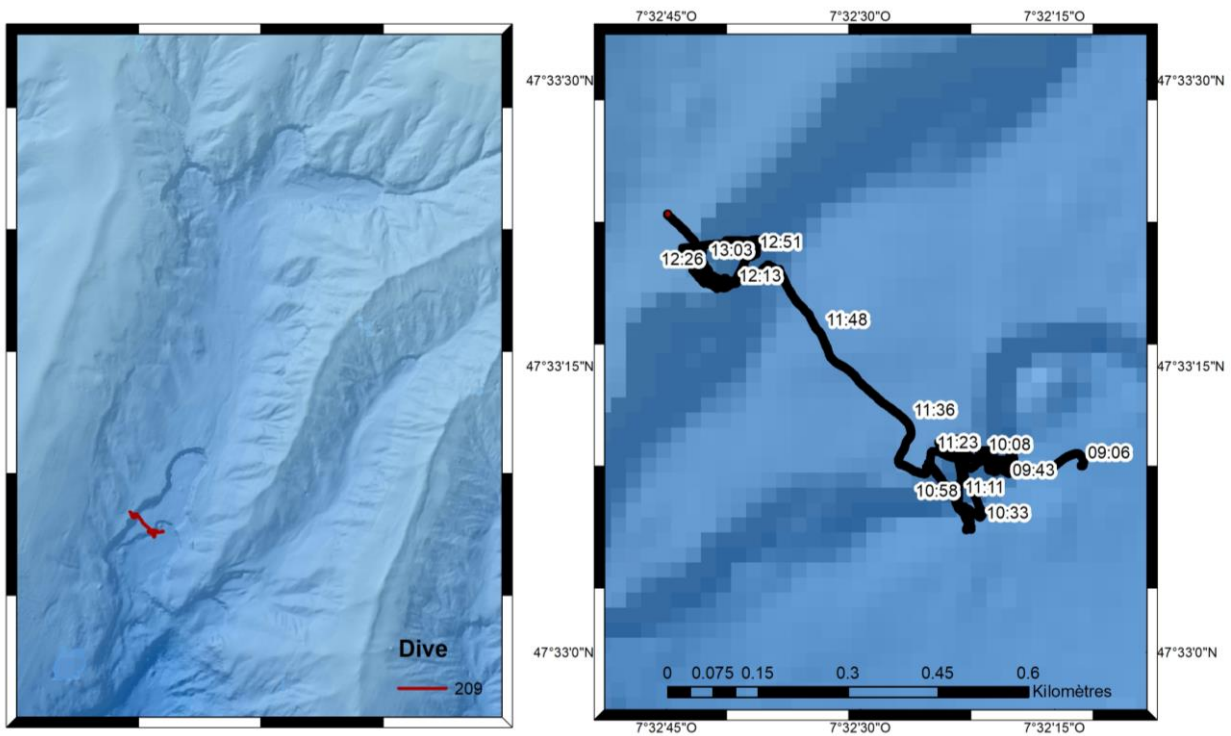
6.12.1. Objectives

MEBS and OPTIC surveys along the lower cliffs (falaise 2, falaise 3) at 30 m and 5 m altitude.

6.12.2. Work abstract

- 0 Sample operations
- 0 Measures
- 0 Moorings
- 88 Images

6.12.3. Map



6.12.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|-------------|--------------|----------|---|
| 8/20/21 | 08:31 | Canyon de Lampaul | N 47 33.190 | W 007 32.248 | 1727 | ajout offset de roulis pour le SMF de -4deg |
| 8/20/21 | 09:05 | Canyon de Lampaul | N 47 33.166 | W 007 32.215 | 1922 | arrivee sur le fond pour profil de celerite. |
| 8/20/21 | 09:06 | Canyon de Lampaul | N 47 33.163 | W 007 32.216 | 1915 | debut de profil P1 falaise 3. altitude=30m. SMF = 400kHz |
| 8/20/21 | 09:36 | Canyon de Lampaul | N 47 33.176 | W 007 32.387 | 1838 | fin de profil |
| 8/20/21 | 09:53 | Canyon de Lampaul | N 47 33.168 | W 007 32.311 | 1938 | Faux depart P1 alt 5m, commence pas assez profond, on va le recommencer 10 minues plus tard |
| 8/20/21 | 09:54 | Canyon de Lampaul | N 47 33.168 | W 007 32.314 | 1939 | DEBRIS |
| 8/20/21 | 09:54 | Canyon de | N 47 33.168 | W 007 32.320 | 1940 | GALETS |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|-------------|--------------|----------|---|
| | | Lampaul | | | | |
| 8/20/21 | 09:56 | Canyon de Lampaul | N 47 33.173 | W 007 32.330 | 1942 | SUBSTRAT DUR RUGUEUX |
| 8/20/21 | 09:57 | Canyon de Lampaul | N 47 33.176 | W 007 32.341 | 1935 | mur |
| 8/20/21 | 09:59 | Canyon de Lampaul | N 47 33.175 | W 007 32.347 | 1923 | corail SOLITAIRE |
| 8/20/21 | 09:59 | Canyon de Lampaul | N 47 33.175 | W 007 32.347 | 1924 | Madrepora |
| 8/20/21 | 10:00 | Canyon de Lampaul | N 47 33.173 | W 007 32.345 | 1924 | Solenesmilia et Madrepora CORAIL |
| 8/20/21 | 10:03 | Canyon de Lampaul | N 47 33.172 | W 007 32.343 | 1936 | substrat dur rugueux avec un peu de sediment |
| 8/20/21 | 10:03 | Canyon de Lampaul | N 47 33.172 | W 007 32.341 | 1943 | Fin de profil essai on recommence |
| 8/20/21 | 10:04 | Canyon de Lampaul | N 47 33.172 | W 007 32.342 | 1942 | Debut profil P1 image. altitude =5m. SMF = 400kHz |
| 8/20/21 | 10:05 | Canyon de Lampaul | N 47 33.171 | W 007 32.344 | 1932 | CORAIL |
| 8/20/21 | 10:06 | Canyon de Lampaul | N 47 33.172 | W 007 32.346 | 1926 | CORAIL colonies peu dense |
| 8/20/21 | 10:07 | Canyon de Lampaul | N 47 33.171 | W 007 32.345 | 1915 | CORAIL |
| 8/20/21 | 10:07 | Canyon de Lampaul | N 47 33.171 | W 007 32.345 | 1914 | crinoide |
| 8/20/21 | 10:07 | Canyon de Lampaul | N 47 33.170 | W 007 32.344 | 1910 | zoom sur gorgones |
| 8/20/21 | 10:08 | Canyon de Lampaul | N 47 33.170 | W 007 32.344 | 1910 | Solenosmilia |
| 8/20/21 | 10:08 | Canyon de Lampaul | N 47 33.170 | W 007 32.343 | 1910 | DECHETS |
| 8/20/21 | 10:09 | Canyon de Lampaul | N 47 33.170 | W 007 32.343 | 1909 | corail solitaire |
| 8/20/21 | 10:09 | Canyon de Lampaul | N 47 33.169 | W 007 32.342 | 1909 | mur couvert de colonies |
| 8/20/21 | 10:09 | Canyon de | N 47 33.169 | W 007 32.342 | 1909 | corail DENSE MORT ET |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|-------------|--------------|----------|---|
| | | Lampaul | | | | VIVANT |
| 8/20/21 | 10:09 | Canyon de Lampaul | N 47 33.169 | W 007 32.342 | 1907 | recif |
| 8/20/21 | 10:10 | Canyon de Lampaul | N 47 33.170 | W 007 32.342 | 1897 | recif sur surplomb |
| 8/20/21 | 10:11 | Canyon de Lampaul | N 47 33.169 | W 007 32.342 | 1894 | jardin CORAIL sur plateau |
| 8/20/21 | 10:11 | Canyon de Lampaul | N 47 33.168 | W 007 32.343 | 1891 | Substrat avec beaucoup de sediment |
| 8/20/21 | 10:12 | Canyon de Lampaul | N 47 33.163 | W 007 32.352 | 1889 | Substrat dur rugueux |
| 8/20/21 | 10:13 | Canyon de Lampaul | N 47 33.161 | W 007 32.361 | 1889 | Substrat dur rugueux strate avec CORAIL peu dense |
| 8/20/21 | 10:14 | Canyon de Lampaul | N 47 33.163 | W 007 32.364 | 1883 | Substrat dur rugueux strate avec CORAIL peu dense |
| 8/20/21 | 10:14 | Canyon de Lampaul | N 47 33.164 | W 007 32.364 | 1882 | deuxieme plateau |
| 8/20/21 | 10:14 | Canyon de Lampaul | N 47 33.164 | W 007 32.364 | 1881 | marche d'escaliers avec CORAIL morts et DEBRIS |
| 8/20/21 | 10:15 | Canyon de Lampaul | N 47 33.169 | W 007 32.360 | 1879 | gorgogne |
| 8/20/21 | 10:16 | Canyon de Lampaul | N 47 33.170 | W 007 32.360 | 1878 | marche d'escalier avec beaucoup de sediment |
| 8/20/21 | 10:18 | Canyon de Lampaul | N 47 33.176 | W 007 32.363 | 1872 | CORAIL mort |
| 8/20/21 | 10:18 | Canyon de Lampaul | N 47 33.178 | W 007 32.363 | 1871 | rides de sable |
| 8/20/21 | 10:18 | Canyon de Lampaul | N 47 33.179 | W 007 32.364 | 1870 | Substrat dur rugueux avec beaucoup de sediment |
| 8/20/21 | 10:19 | Canyon de Lampaul | N 47 33.186 | W 007 32.370 | 1866 | rides se sable sur substrat dur |
| 8/20/21 | 10:22 | Canyon de | N 47 33.184 | W 007 32.396 | 1865 | Fin de profil |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|-------------|--------------|----------|---|
| | | Lampaul | | | | |
| 8/20/21 | 10:24 | Canyon de Lampaul | N 47 33.175 | W 007 32.384 | 1865 | PLEINE EAU Arret video et APN |
| 8/20/21 | 10:37 | Canyon de Lampaul | N 47 33.118 | W 007 32.345 | 1915 | Debut de profil P2 SMF 30m - SMF = 400 kHz |
| 8/20/21 | 10:51 | Canyon de Lampaul | N 47 33.165 | W 007 32.412 | 1837 | Fin de profil |
| 8/20/21 | 11:05 | Canyon de Lampaul | N 47 33.107 | W 007 32.357 | 1941 | debut du profil P2 images altitude = 5m - SMF= 400 kHz |
| 8/20/21 | 11:07 | Canyon de Lampaul | N 47 33.116 | W 007 32.363 | 1942 | DEBRIS au fond |
| 8/20/21 | 11:08 | Canyon de Lampaul | N 47 33.127 | W 007 32.371 | 1944 | mur |
| 8/20/21 | 11:09 | Canyon de Lampaul | N 47 33.127 | W 007 32.372 | 1944 | Substrat dur |
| 8/20/21 | 11:09 | Canyon de Lampaul | N 47 33.128 | W 007 32.375 | 1943 | DEBRIS |
| 8/20/21 | 11:10 | Canyon de Lampaul | N 47 33.133 | W 007 32.374 | 1935 | corail ISOLE |
| 8/20/21 | 11:11 | Canyon de Lampaul | N 47 33.135 | W 007 32.374 | 1932 | patch de debris |
| 8/20/21 | 11:11 | Canyon de Lampaul | N 47 33.138 | W 007 32.373 | 1928 | Substrat dur avec peu de sediment |
| 8/20/21 | 11:12 | Canyon de Lampaul | N 47 33.141 | W 007 32.373 | 1926 | couloir de debris |
| 8/20/21 | 11:14 | Canyon de Lampaul | N 47 33.149 | W 007 32.369 | 1906 | marche d'escaliers |
| 8/20/21 | 11:15 | Canyon de Lampaul | N 47 33.153 | W 007 32.370 | 1893 | CORAIL dense sur les arretes |
| 8/20/21 | 11:15 | Canyon de Lampaul | N 47 33.154 | W 007 32.370 | 1892 | Corail mort et vivant |
| 8/20/21 | 11:16 | Canyon de Lampaul | N 47 33.155 | W 007 32.370 | 1889 | Solensmilia |
| 8/20/21 | 11:17 | Canyon de Lampaul | N 47 33.157 | W 007 32.370 | 1885 | marche d'escalier avec CORAIL |
| 8/20/21 | 11:17 | Canyon de | N 47 33.158 | W 007 32.370 | 1884 | SUBSTRAT DUR AVEC |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|-------------|--------------|----------|--|
| | | Lampaul | | | | SEDIMENT |
| 8/20/21 | 11:17 | Canyon de Lampaul | N 47 33.159 | W 007 32.371 | 1884 | PETITES MARCHES |
| 8/20/21 | 11:18 | Canyon de Lampaul | N 47 33.165 | W 007 32.373 | 1879 | alternance roche substrat dur et CORAIL sur les arretes |
| 8/20/21 | 11:21 | Canyon de Lampaul | N 47 33.172 | W 007 32.390 | 1871 | rides de sable |
| 8/20/21 | 11:23 | Canyon de Lampaul | N 47 33.174 | W 007 32.409 | 1867 | Fin de profil |
| 8/20/21 | 11:25 | Canyon de Lampaul | N 47 33.161 | W 007 32.409 | 1854 | Debut profil P3 (traversee du plateau de falaise 3 à falaise 2) SMF 30m - altitude 30m - SMF = 400 kHz |
| 8/20/21 | 11:56 | Canyon de Lampaul | N 47 33.331 | W 007 32.602 | 1812 | Fin de profil P3 |
| 8/20/21 | 11:57 | Canyon de Lampaul | N 47 33.335 | W 007 32.605 | 1813 | Debut de profil P4 SMF 30 m falaise 2 - SMF = 400 kHz |
| 8/20/21 | 12:12 | Canyon de Lampaul | N 47 33.323 | W 007 32.666 | 1700 | On a arrête le profil, on va reprendre. Changement de cap, pour etre face a la pente |
| 8/20/21 | 12:15 | Canyon de Lampaul | N 47 33.319 | W 007 32.672 | 1723 | On reprend le profil. |
| 8/20/21 | 12:34 | Canyon de Lampaul | N 47 33.356 | W 007 32.701 | 1560 | Fin de profil |
| 8/20/21 | 12:56 | Canyon de Lampaul | N 47 33.324 | W 007 32.667 | 1736 | On n a pas trouve la pointe. Retour sur le point de changement de profil P4 pour suivre en visuel la 2eme partie du profil SMF 30m |
| 8/20/21 | 12:59 | Canyon de | N 47 33.329 | W 007 32.690 | 1736 | Debut de profil |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|----------------------|-------------|--------------|----------|---|
| | | Lampaul | | | | falaise 2 P4 images - altitude = 5m. SMF = 400 kHz. On commence a 1736m (mi- falaise) |
| 8/20/21 | 13:02 | Canyon de Lampaul | N 47 33.337 | W 007 32.700 | 1712 | Corail |
| 8/20/21 | 13:02 | Canyon de Lampaul | N 47 33.337 | W 007 32.700 | 1709 | SUBSTRAT DUR |
| 8/20/21 | 13:02 | Canyon de Lampaul | N 47 33.338 | W 007 32.701 | 1705 | corail MORT |
| 8/20/21 | 13:02 | Canyon de Lampaul | N 47 33.339 | W 007 32.700 | 1703 | debris |
| 8/20/21 | 13:03 | Canyon de Lampaul | N 47 33.340 | W 007 32.702 | 1698 | arretes colonies colonisee |
| 8/20/21 | 13:04 | Canyon de Lampaul | N 47 33.342 | W 007 32.705 | 1682 | debris |
| 8/20/21 | 13:06 | Canyon de Lampaul | N 47 33.347 | W 007 32.711 | 1662 | CORAIL MORRTS ET VIVANT |
| 8/20/21 | 13:07 | Canyon de Lampaul | N 47 33.348 | W 007 32.707 | 1652 | poisson |
| 8/20/21 | 13:07 | Canyon de Lampaul | N 47 33.348 | W 007 32.705 | 1646 | CORAIL dense morts? vivants? |
| 8/20/21 | 13:08 | Canyon de Lampaul | N 47 33.351 | W 007 32.704 | 1631 | gorgogne |
| 8/20/21 | 13:08 | Canyon de Lampaul | N 47 33.351 | W 007 32.704 | 1629 | CORAIL dense mort et un peu de vivant |
| 8/20/21 | 13:11 | Canyon de Lampaul | N 47 33.359 | W 007 32.714 | 1600 | haut de la falaise |
| 8/20/21 | 13:11 | Canyon de Lampaul | N 47 33.360 | W 007 32.715 | 1596 | Substrat dur avec peu de sediment |
| 8/20/21 | 13:11 | Canyon de Lampaul | N 47 33.364 | W 007 32.722 | 1589 | pleine eau |
| 8/20/21 | 13:13 | Canyon de Lampaul | N 47 33.372 | W 007 32.733 | 1589 | rides de sable |
| 8/20/21 | 13:14 | Canyon de Lampaul | N 47 33.382 | W 007 32.749 | 1591 | fin de profil |
| 8/20/21 | 13:16 | Canyon de | N 47 33.384 | W 007 32.737 | 1574 | Fin de plongée |

| Date | Time | Location Lampaul | Latitude | Longitude | Depth(m) | Comment |
|------|------|---------------------|----------|-----------|----------|---------|
|------|------|---------------------|----------|-----------|----------|---------|

6.13. Dive: 210 - 13

Date: **21/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|--|
| 21/08/2021 | 10:00 | Olu Karine, Fezzani Ridha, Fabri Marie-Claire, Karoui Imen |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

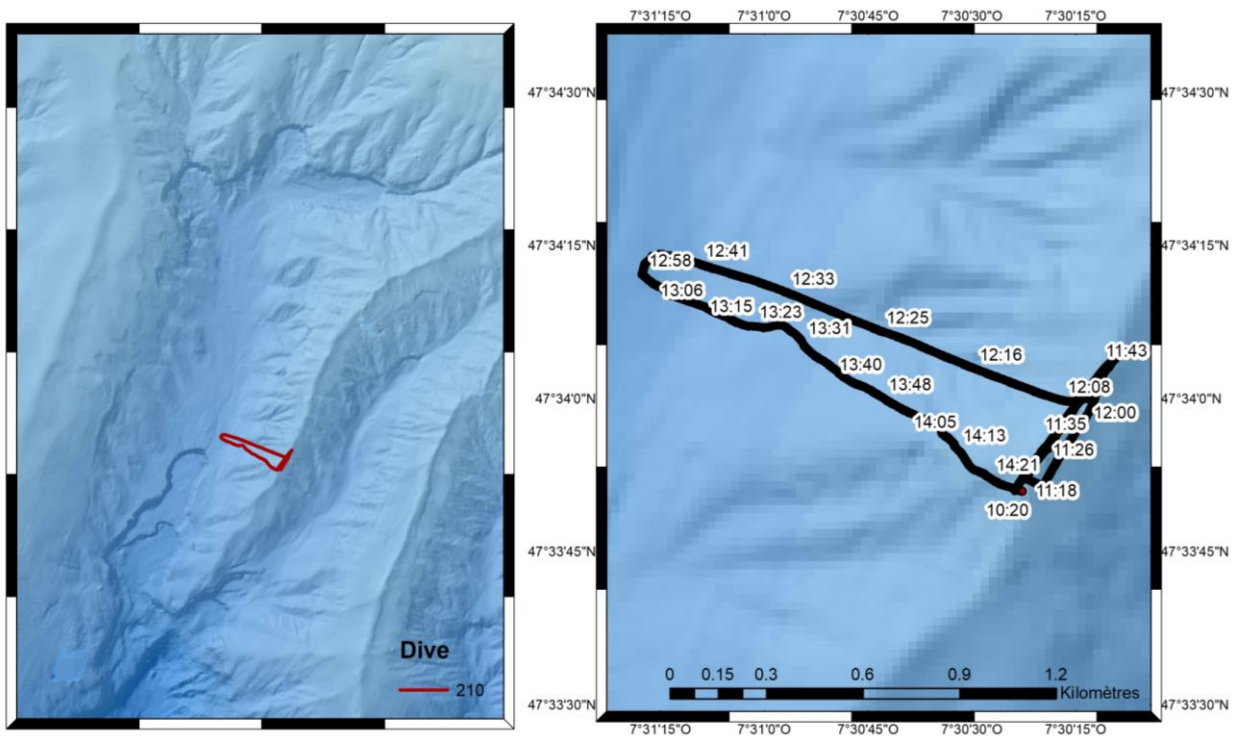
6.13.1. Objectives

MEBS and OPTIC surveys along the lower cliff (falaise 2) but the current was too strong. Instead, MBES profiles along the western interfluve and the western flank, at 20 m, 10 m and 5 m altitude

6.13.2. Work abstract

- 0 Sample operations
- 0 Measures
- 0 Moorings
- 67 Images

6.13.3. Map



6.13.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|-----------|--|
| 8/21/21 | 08:07 | Canyon de Lampaul | N 47 33.785 | W 007 31.883 | 1648 | plonge pour profil de celerite |
| 8/21/21 | 08:08 | Canyon de Lampaul | N 47 33.798 | W 007 31.873 | 1666 | courant trop fort+ perte de positionnement |
| 8/21/21 | 08:25 | Canyon de Lampaul | N 47 33.845 | W 007 31.776 | 1664 | impossible de joindre le profil_Courant portant au Nord dans le fond du goulet, entre les falaises. Environ 0.7 m.sec car Ariane n'avance pas. |
| 8/21/21 | 08:31 | Canyon de Lampaul | N 47 33.828 | W 007 31.795 | 1655 | On change de zone,départ pour l'interfluve, manoeuvre de clampage. Le courant cesse quand on monte en altitude et que l'on sort du goulet |
| 8/21/21 | 08:31 | Canyon de Lampaul | N 47 33.828 | W 007 31.796 | 1652 | clampage |
| 8/21/21 | 08:53 | Canyon de Lampaul | N 47 33.840 | W 007 31.915 | 1639 | declampage |
| 8/21/21 | 10:13 | Canyon de Lampaul | N 47 33.836 | W 007 30.381 | 863 | debut de profil P1 interfluve - altitude 20 m - 400 kHz |
| 8/21/21 | 10:25 | Canyon de Lampaul | N 47 33.883 | W 007 30.361 | 977 | courant portant a l ouest |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|--------------|--|
| 8/21/21 | 10:25 | Canyon de Lampaul | N 47 33.884 | W 007 30.359 | 977 | fin de profil a 20m |
| 8/21/21 | 11:17 | Canyon de Lampaul | N 47 33.870 | W 007 30.366 | 991 | Debut de profil P1 interfluve - altitude 10m - 400 KHz |
| 8/21/21 | 11:24 | Canyon de Lampaul | N 47 33.915 | W 007 30.329 | 985 | Demarrage enregistrement video et APN |
| 8/21/21 | 11:42 | Canyon de Lampaul | N 47 34.052 | W 007 30.176 | 962 | fin de profil a 10m |
| 8/21/21 | 11:45 | Canyon de Lampaul | N 47 34.064 | W 007 30.156 | 927 | on clampage pour profil video |
| 8/21/21 | 11:57 | Canyon de Lampaul | N 47 33.999 | W 007 30.224 | 924 | clampage |
| 8/21/21 | 12:53 | Canyon de Lampaul | N 47 34.232 | W 007 31.270 | 1463 | declampage |
| 8/21/21 | 12:57 | Canyon de Lampaul | N 47 34.205 | W 007 31.294 | 1522 | debut de profil P2 perpendiculaire au précédent sur le flanc, altitude 5 m - 400 kHz - exploration optique |
| 8/21/21 | 12:58 | Canyon de Lampaul | N 47 34.205 | W 007 31.294 | 1522 | micro rides dissymetrique |
| 8/21/21 | 12:59 | Canyon de Lampaul | N 47 34.196 | W 007 31.284 | 1521 | courant fort sud |
| 8/21/21 | 12:59 | Canyon de Lampaul | N 47 34.187 | W 007 31.267 | 1521 | micro rides de sable |
| 8/21/21 | 13:01 | Canyon de Lampaul | N 47 34.177 | W 007 31.242 | 1518 | Substrat dur roche calcaire avec peu de sediment |
| 8/21/21 | 13:03 | Canyon de Lampaul | N 47 34.163 | W 007 31.201 | 1502 | bloc de roche |
| 8/21/21 | 13:04 | Canyon de Lampaul | N 47 34.162 | W 007 31.198 | 1501 | rides de sable |
| 8/21/21 | 13:04 | Canyon de Lampaul | N 47 34.161 | W 007 31.193 | 1500 | CORAIL |
| 8/21/21 | 13:04 | Canyon de Lampaul | N 47 34.160 | W 007 31.188 | 1497 | SUBSTRAT DUR RUGUEUX |
| 8/21/21 | 13:05 | Canyon de Lampaul | N 47 34.158 | W 007 31.179 | 1491 | BLOC ROCHEUX |
| 8/21/21 | 13:06 | Canyon de Lampaul | N 47 34.157 | W 007 31.172 | 1485 | corail petites colonies isolees |
| 8/21/21 | 13:08 | Canyon de Lampaul | N 47 34.151 | W 007 31.151 | 1471 | Substrat dur avec beaucoup d etoiles de mer |
| 8/21/21 | 13:08 | Canyon de | N 47 | W 007 | 1468 | gorgogne acanella |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|--------------|---|
| | | Lampaul | 34.150 | 31.146 | | |
| 8/21/21 | 13:08 | Canyon de Lampaul | N 47 34.149 | W 007 31.142 | 1460 | bloc rocheux lisse |
| 8/21/21 | 13:12 | Canyon de Lampaul | N 47 34.136 | W 007 31.105 | 1427 | Substrat meuble |
| 8/21/21 | 13:13 | Canyon de Lampaul | N 47 34.135 | W 007 31.103 | 1427 | jardin d acanella |
| 8/21/21 | 13:13 | Canyon de Lampaul | N 47 34.135 | W 007 31.101 | 1427 | zone plate |
| 8/21/21 | 13:13 | Canyon de Lampaul | N 47 34.134 | W 007 31.096 | 1426 | empreur |
| 8/21/21 | 13:13 | Canyon de Lampaul | N 47 34.133 | W 007 31.095 | 1425 | eponges tulipes |
| 8/21/21 | 13:14 | Canyon de Lampaul | N 47 34.132 | W 007 31.091 | 1424 | Substrat meuble avec gorgogne |
| 8/21/21 | 13:14 | Canyon de Lampaul | N 47 34.130 | W 007 31.084 | 1421 | empereur |
| 8/21/21 | 13:17 | Canyon de Lampaul | N 47 34.120 | W 007 31.050 | 1405 | Substrat dur avec beaucoup de sediment |
| 8/21/21 | 13:18 | Canyon de Lampaul | N 47 34.117 | W 007 31.038 | 1398 | gorgogne |
| 8/21/21 | 13:18 | Canyon de Lampaul | N 47 34.118 | W 007 31.034 | 1396 | Substrat dur roche calcaire? couverte de sediment |
| 8/21/21 | 13:19 | Canyon de Lampaul | N 47 34.117 | W 007 31.021 | 1389 | poisson |
| 8/21/21 | 13:20 | Canyon de Lampaul | N 47 34.116 | W 007 31.003 | 1378 | Substrat meuble |
| 8/21/21 | 13:21 | Canyon de Lampaul | N 47 34.116 | W 007 30.993 | 1373 | Substrat dur |
| 8/21/21 | 13:22 | Canyon de Lampaul | N 47 34.118 | W 007 30.974 | 1362 | Substrat dur avec un peu de sediment- |
| 8/21/21 | 13:24 | Canyon de Lampaul | N 47 34.118 | W 007 30.954 | 1354 | Substrat dur avec beaucoup de sediment |
| 8/21/21 | 13:24 | Canyon de Lampaul | N 47 34.117 | W 007 30.950 | 1352 | antipathaire |
| 8/21/21 | 13:25 | Canyon de Lampaul | N 47 34.114 | W 007 30.944 | 1349 | Substrat meuble |
| 8/21/21 | 13:28 | Canyon de Lampaul | N 47 34.105 | W 007 30.927 | 1337 | empreur |
| 8/21/21 | 13:35 | Canyon de | N 47 | W 007 | 1300 | empreur |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 34.072 | 30.883 | | |
| 8/21/21 | 13:40 | Canyon de Lampaul | N 47 34.030 | W 007 30.798 | 1235 | Substrat meuble rien |
| 8/21/21 | 13:43 | Canyon de Lampaul | N 47 34.021 | W 007 30.769 | 1212 | eponge pheronema |
| 8/21/21 | 13:44 | Canyon de Lampaul | N 47 34.018 | W 007 30.757 | 1204 | oursin |
| 8/21/21 | 13:54 | Canyon de Lampaul | N 47 33.975 | W 007 30.646 | 1137 | champ d holoturies |
| 8/21/21 | 14:00 | Canyon de Lampaul | N 47 33.959 | W 007 30.589 | 1133 | Substrat meuble |
| 8/21/21 | 14:02 | Canyon de Lampaul | N 47 33.948 | W 007 30.574 | 1117 | Substrat dur avec beaucoup de sediment |
| 8/21/21 | 14:07 | Canyon de Lampaul | N 47 33.934 | W 007 30.555 | 1096 | arrete |
| 8/21/21 | 14:07 | Canyon de Lampaul | N 47 33.933 | W 007 30.555 | 1095 | Substrat dur debris et sediment |
| 8/21/21 | 14:10 | Canyon de Lampaul | N 47 33.926 | W 007 30.544 | 1079 | CORAIL MORTS ET VIVANTS |
| 8/21/21 | 14:13 | Canyon de Lampaul | N 47 33.918 | W 007 30.537 | 1067 | corail peu dense sur substrat meuble |
| 8/21/21 | 14:16 | Canyon de Lampaul | N 47 33.901 | W 007 30.518 | 1051 | Colonies mortes CORAIL |
| 8/21/21 | 14:16 | Canyon de Lampaul | N 47 33.899 | W 007 30.516 | 1049 | jardin de corail peu dense |
| 8/21/21 | 14:17 | Canyon de Lampaul | N 47 33.893 | W 007 30.510 | 1045 | jardin de corail peu dense |
| 8/21/21 | 14:19 | Canyon de Lampaul | N 47 33.879 | W 007 30.481 | 1035 | Colonies mortes |
| 8/21/21 | 14:20 | Canyon de Lampaul | N 47 33.874 | W 007 30.467 | 1033 | jardin de corail peu dense |
| 8/21/21 | 14:23 | Canyon de Lampaul | N 47 33.858 | W 007 30.426 | 1026 | Substrat meuble |
| 8/21/21 | 14:25 | Canyon de Lampaul | N 47 33.853 | W 007 30.400 | 1019 | Corail mort sur substrat meuble |
| 8/21/21 | 14:26 | Canyon de Lampaul | N 47 33.851 | W 007 30.391 | 1012 | Corail peu dense sur beaucoup de sediment |
| 8/21/21 | 14:27 | Canyon de Lampaul | N 47 33.848 | W 007 30.379 | 1012 | Fin de profil - Fin de plongee |

6.14. Dive: 211 - 14

Date: **22/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|--|
| 22/08/2021 | 08:00 | Olu Karine, Fezzani Ridha, Fabri Marie-Claire, Karoui Imen |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

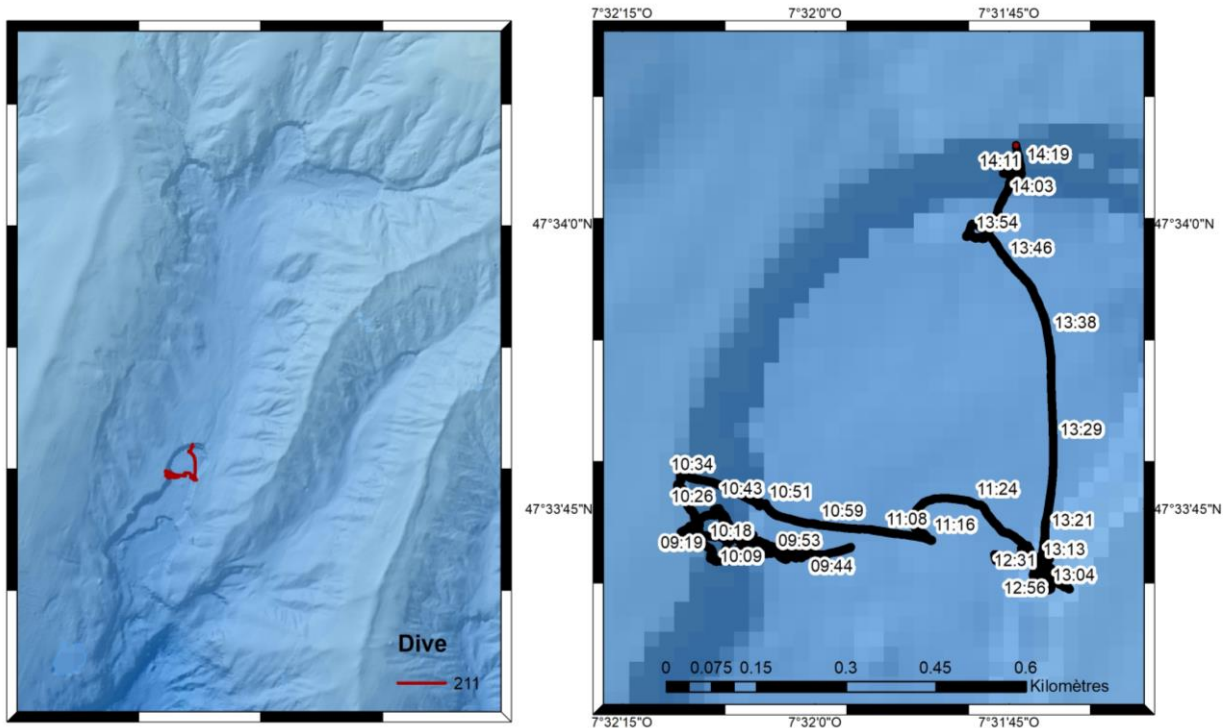
6.14.1. Objectives

MEBS and OPTIC surveys along the lower cliff (falaise 2) at 30 m and 5 m.

6.14.2. Work abstract

- 0 Sample operations
- 0 Measures
- 0 Moorings
- 166 Images

6.14.3. Map



6.14.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/22/21 | 08:16 | Canyon de Lampaul | N 47 33.749 | W 007 31.952 | 1678 | Immersion 1677 m, courant qui porte au nord. |
| 8/22/21 | 08:36 | Canyon de Lampaul | N 47 33.713 | W 007 31.945 | 1762 | declampage |
| 8/22/21 | 08:36 | Canyon de Lampaul | N 47 33.716 | W 007 31.946 | 1764 | plongee pour profil de celerite a 5 m |
| 8/22/21 | 08:39 | Canyon de Lampaul | N 47 33.709 | W 007 31.989 | 1775 | debut de profil P5 Falaise 2 Ouest - altitude 30 m - 400 kHz |
| 8/22/21 | 09:16 | Canyon de Lampaul | N 47 33.724 | W 007 32.175 | 1537 | fin de profil P5 |
| 8/22/21 | 09:24 | Canyon de Lampaul | N 47 33.750 | W 007 32.129 | 1526 | clampage |
| 8/22/21 | 09:45 | Canyon de Lampaul | N 47 33.709 | W 007 32.012 | 1759 | declampage |
| 8/22/21 | 09:48 | Canyon de Lampaul | N 47 33.711 | W 007 32.010 | 1801 | Debut de profil P5 OPTIQUE Falaise 2 Ouest - altitude 5m - 400 kHz |
| 8/22/21 | 09:48 | Canyon de Lampaul | N 47 33.711 | W 007 32.021 | 1802 | Rides de courant sur le fond, on voit que le courant va dans deux directions |
| 8/22/21 | 09:51 | Canyon de Lampaul | N 47 33.712 | W 007 32.048 | 1804 | Quelques poissons |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/22/21 | 09:52 | Canyon de Lampaul | N 47 33.711 | W 007 32.057 | 1803 | Quelques graviers au pied de la falaise |
| 8/22/21 | 09:53 | Canyon de Lampaul | N 47 33.711 | W 007 32.061 | 1802 | Arrivee au pied de la falaise |
| 8/22/21 | 09:53 | Canyon de Lampaul | N 47 33.711 | W 007 32.063 | 1802 | Pied de falaise rocheuse avec des depôts de sediments |
| 8/22/21 | 09:54 | Canyon de Lampaul | N 47 33.709 | W 007 32.069 | 1802 | sediment |
| 8/22/21 | 09:55 | Canyon de Lampaul | N 47 33.710 | W 007 32.073 | 1802 | Debris de coraux |
| 8/22/21 | 09:55 | Canyon de Lampaul | N 47 33.710 | W 007 32.080 | 1799 | Debris corails en pied de falaise |
| 8/22/21 | 09:56 | Canyon de Lampaul | N 47 33.710 | W 007 32.087 | 1797 | CORAIL MORT |
| 8/22/21 | 09:56 | Canyon de Lampaul | N 47 33.710 | W 007 32.089 | 1796 | crinoides |
| 8/22/21 | 09:57 | Canyon de Lampaul | N 47 33.710 | W 007 32.096 | 1790 | vue sur le mur, falaise, substrat dur à nu |
| 8/22/21 | 09:57 | Canyon de Lampaul | N 47 33.708 | W 007 32.097 | 1785 | CORAIL sur la falaise |
| 8/22/21 | 09:58 | Canyon de Lampaul | N 47 33.708 | W 007 32.095 | 1783 | CORAIL sur falaise |
| 8/22/21 | 09:58 | Canyon de Lampaul | N 47 33.707 | W 007 32.095 | 1780 | on remonte sur la petit arrete à gauche du creux |
| 8/22/21 | 09:58 | Canyon de Lampaul | N 47 33.707 | W 007 32.094 | 1779 | CORAIL dense |
| 8/22/21 | 09:59 | Canyon de Lampaul | N 47 33.707 | W 007 32.094 | 1778 | CORAIL petites colonies |
| 8/22/21 | 09:59 | Canyon de Lampaul | N 47 33.707 | W 007 32.095 | 1771 | zoom |
| 8/22/21 | 10:00 | Canyon de Lampaul | N 47 33.706 | W 007 32.095 | 1767 | brachiopodes |
| 8/22/21 | 10:01 | Canyon de Lampaul | N 47 33.708 | W 007 32.099 | 1762 | passage sans coraux |
| 8/22/21 | 10:01 | Canyon de Lampaul | N 47 33.708 | W 007 32.101 | 1759 | a nouveau des coraux au dessus |
| 8/22/21 | 10:02 | Canyon de Lampaul | N 47 33.708 | W 007 32.102 | 1754 | CORAIL dense a nouveau |
| 8/22/21 | 10:02 | Canyon de Lampaul | N 47 33.708 | W 007 32.105 | 1752 | tentative de rapprochement |
| 8/22/21 | 10:02 | Canyon de | N 47 | W 007 | 1750 | crinoides rouges |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|-------------------------------|
| | | Lampaul | 33.709 | 32.104 | | |
| 8/22/21 | 10:03 | Canyon de Lampaul | N 47 33.708 | W 007 32.104 | 1741 | zoom |
| 8/22/21 | 10:04 | Canyon de Lampaul | N 47 33.708 | W 007 32.102 | 1734 | zone de corail dense |
| 8/22/21 | 10:06 | Canyon de Lampaul | N 47 33.705 | W 007 32.104 | 1716 | presence de gorgones |
| 8/22/21 | 10:06 | Canyon de Lampaul | N 47 33.705 | W 007 32.104 | 1714 | nouvelle zone de debris |
| 8/22/21 | 10:06 | Canyon de Lampaul | N 47 33.705 | W 007 32.105 | 1712 | zone de debris |
| 8/22/21 | 10:06 | Canyon de Lampaul | N 47 33.704 | W 007 32.107 | 1709 | petit replat sur la falaise |
| 8/22/21 | 10:07 | Canyon de Lampaul | N 47 33.705 | W 007 32.119 | 1698 | debris de coraux |
| 8/22/21 | 10:10 | Canyon de Lampaul | N 47 33.707 | W 007 32.135 | 1673 | CORAIL de plus en plus dense |
| 8/22/21 | 10:10 | Canyon de Lampaul | N 47 33.707 | W 007 32.135 | 1667 | gorgones, crinoides et CORAIL |
| 8/22/21 | 10:10 | Canyon de Lampaul | N 47 33.707 | W 007 32.135 | 1663 | empereur |
| 8/22/21 | 10:11 | Canyon de Lampaul | N 47 33.707 | W 007 32.136 | 1660 | eponge jaune |
| 8/22/21 | 10:11 | Canyon de Lampaul | N 47 33.707 | W 007 32.136 | 1658 | CORAIL dense |
| 8/22/21 | 10:11 | Canyon de Lampaul | N 47 33.707 | W 007 32.136 | 1654 | Acesta, crinoides |
| 8/22/21 | 10:11 | Canyon de Lampaul | N 47 33.708 | W 007 32.135 | 1650 | pas de courant |
| 8/22/21 | 10:12 | Canyon de Lampaul | N 47 33.708 | W 007 32.135 | 1647 | CORAIL dense |
| 8/22/21 | 10:12 | Canyon de Lampaul | N 47 33.708 | W 007 32.136 | 1640 | CORAIL dense |
| 8/22/21 | 10:13 | Canyon de Lampaul | N 47 33.709 | W 007 32.135 | 1635 | zoom |
| 8/22/21 | 10:13 | Canyon de Lampaul | N 47 33.709 | W 007 32.134 | 1633 | zoom |
| 8/22/21 | 10:13 | Canyon de Lampaul | N 47 33.709 | W 007 32.135 | 1630 | Solenosmilia ? |
| 8/22/21 | 10:14 | Canyon de Lampaul | N 47 33.709 | W 007 32.135 | 1625 | Beaucoup de poissons |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/22/21 | 10:14 | Canyon de Lampaul | N 47 33.712 | W 007 32.134 | 1616 | ascidies? |
| 8/22/21 | 10:16 | Canyon de Lampaul | N 47 33.716 | W 007 32.137 | 1599 | Partie sans coraux |
| 8/22/21 | 10:17 | Canyon de Lampaul | N 47 33.719 | W 007 32.145 | 1584 | CORAIL dense - Sommet de la falaise 2 Ouest |
| 8/22/21 | 10:18 | Canyon de Lampaul | N 47 33.721 | W 007 32.149 | 1570 | Fin de profil P5 |
| 8/22/21 | 10:19 | Canyon de Lampaul | N 47 33.722 | W 007 32.149 | 1571 | Exploration du sommet de la falaise 2 Ouest (rebord) en partant vers la droite = vers le nord |
| 8/22/21 | 10:19 | Canyon de Lampaul | N 47 33.723 | W 007 32.148 | 1574 | colonies colorees (gorgones) |
| 8/22/21 | 10:21 | Canyon de Lampaul | N 47 33.728 | W 007 32.150 | 1575 | crinoides sur colonies |
| 8/22/21 | 10:22 | Canyon de Lampaul | N 47 33.731 | W 007 32.151 | 1575 | gorgones sur colonies |
| 8/22/21 | 10:23 | Canyon de Lampaul | N 47 33.736 | W 007 32.151 | 1575 | Ancien massif de CORAIL, mort maintenant |
| 8/22/21 | 10:24 | Canyon de Lampaul | N 47 33.736 | W 007 32.154 | 1575 | gorgones et crinoides sur squelettes de scleractiniaires (quelques vivants) |
| 8/22/21 | 10:25 | Canyon de Lampaul | N 47 33.745 | W 007 32.156 | 1575 | organisation des colonies orientees vers le nord |
| 8/22/21 | 10:25 | Canyon de Lampaul | N 47 33.749 | W 007 32.159 | 1573 | CORAIL dense |
| 8/22/21 | 10:26 | Canyon de Lampaul | N 47 33.754 | W 007 32.164 | 1572 | antipathaire |
| 8/22/21 | 10:27 | Canyon de Lampaul | N 47 33.755 | W 007 32.165 | 1572 | CORAIL dense |
| 8/22/21 | 10:27 | Canyon de Lampaul | N 47 33.756 | W 007 32.165 | 1571 | gorgones et crinoides |
| 8/22/21 | 10:27 | Canyon de Lampaul | N 47 33.758 | W 007 32.167 | 1571 | exploration vers le nord suite |
| 8/22/21 | 10:28 | Canyon de Lampaul | N 47 33.763 | W 007 32.170 | 1571 | densite moins importante |
| 8/22/21 | 10:31 | Canyon de Lampaul | N 47 33.769 | W 007 32.180 | 1566 | suite de l'exploration |
| 8/22/21 | 10:33 | Canyon de Lampaul | N 47 33.778 | W 007 32.177 | 1566 | joli massif |
| 8/22/21 | 10:33 | Canyon de Lampaul | N 47 33.780 | W 007 32.174 | 1565 | Fin de l'exploration du sommet de la falaise 2 |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/22/21 | 10:35 | Canyon de Lampaul | N 47 33.778 | W 007 32.160 | 1555 | en route pour clampage |
| 8/22/21 | 11:16 | Canyon de Lampaul | N 47 33.726 | W 007 31.857 | 1697 | declampage |
| 8/22/21 | 11:21 | Canyon de Lampaul | N 47 33.752 | W 007 31.858 | 1710 | plus de courant |
| 8/22/21 | 11:25 | Canyon de Lampaul | N 47 33.752 | W 007 31.787 | 1741 | debut de profil P6 Falaise 2 Est - altitude 30 m - SMF 400 kHz |
| 8/22/21 | 12:00 | Canyon de Lampaul | N 47 33.681 | W 007 31.674 | 1526 | fin de profil P6 |
| 8/22/21 | 12:14 | Canyon de Lampaul | N 47 33.711 | W 007 31.732 | 1680 | retour en bas de la falaise Est |
| 8/22/21 | 12:16 | Canyon de Lampaul | N 47 33.710 | W 007 31.739 | 1711 | calmars |
| 8/22/21 | 12:18 | Canyon de Lampaul | N 47 33.711 | W 007 31.755 | 1730 | courant oriente vers le sud |
| 8/22/21 | 12:25 | Canyon de Lampaul | N 47 33.713 | W 007 31.729 | 1772 | sediment au fond |
| 8/22/21 | 12:25 | Canyon de Lampaul | N 47 33.712 | W 007 31.726 | 1771 | debut profil Falaise 2 Est OPTIQUE P6 - altitude 5m - 400kHz |
| 8/22/21 | 12:26 | Canyon de Lampaul | N 47 33.709 | W 007 31.719 | 1771 | Debris de coraux au fond |
| 8/22/21 | 12:26 | Canyon de Lampaul | N 47 33.706 | W 007 31.717 | 1768 | crinoides au fond |
| 8/22/21 | 12:27 | Canyon de Lampaul | N 47 33.704 | W 007 31.716 | 1766 | CORAIL sur roche, bas de falaise |
| 8/22/21 | 12:28 | Canyon de Lampaul | N 47 33.701 | W 007 31.715 | 1760 | zone de debris |
| 8/22/21 | 12:28 | Canyon de Lampaul | N 47 33.700 | W 007 31.715 | 1757 | zone de debris |
| 8/22/21 | 12:29 | Canyon de Lampaul | N 47 33.698 | W 007 31.711 | 1751 | zone de debris |
| 8/22/21 | 12:29 | Canyon de Lampaul | N 47 33.696 | W 007 31.706 | 1743 | poisson anguilliforme |
| 8/22/21 | 12:30 | Canyon de Lampaul | N 47 33.696 | W 007 31.704 | 1740 | poisson autre |
| 8/22/21 | 12:30 | Canyon de Lampaul | N 47 33.695 | W 007 31.704 | 1736 | crinoides oranges sur colonies mortes |
| 8/22/21 | 12:31 | Canyon de Lampaul | N 47 33.695 | W 007 31.706 | 1730 | plusieurs colonies de gorgones |
| 8/22/21 | 12:31 | Canyon de | N 47 | W 007 | 1725 | colonies alignees en frange |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 33.694 | 31.706 | | |
| 8/22/21 | 12:32 | Canyon de Lampaul | N 47 33.694 | W 007 31.707 | 1721 | colonies de gorgones orangees |
| 8/22/21 | 12:32 | Canyon de Lampaul | N 47 33.693 | W 007 31.707 | 1716 | CORAIL dense - quelques vivants |
| 8/22/21 | 12:33 | Canyon de Lampaul | N 47 33.693 | W 007 31.707 | 1709 | CORAIL dense |
| 8/22/21 | 12:34 | Canyon de Lampaul | N 47 33.691 | W 007 31.711 | 1699 | zoom sur CORAIL Solenosmilia, les bouts des colonies sont vivnates |
| 8/22/21 | 12:34 | Canyon de Lampaul | N 47 33.689 | W 007 31.710 | 1695 | eponges, crinoides, |
| 8/22/21 | 12:35 | Canyon de Lampaul | N 47 33.685 | W 007 31.715 | 1691 | poisson argente |
| 8/22/21 | 12:36 | Canyon de Lampaul | N 47 33.684 | W 007 31.718 | 1684 | CORAIL dense (enregistrement video demarres en retard, voir photos) |
| 8/22/21 | 12:36 | Canyon de Lampaul | N 47 33.686 | W 007 31.718 | 1680 | excroissance de CORAIL, mort?, avec gorgones et crinoides oranges |
| 8/22/21 | 12:37 | Canyon de Lampaul | N 47 33.692 | W 007 31.721 | 1680 | colonies plus denses sur arrete |
| 8/22/21 | 12:38 | Canyon de Lampaul | N 47 33.692 | W 007 31.720 | 1678 | zoom sur colonies de gorgones |
| 8/22/21 | 12:38 | Canyon de Lampaul | N 47 33.693 | W 007 31.720 | 1676 | colonies de Solenosmilia mortes? |
| 8/22/21 | 12:39 | Canyon de Lampaul | N 47 33.692 | W 007 31.719 | 1674 | vue d'ensemble de l'arrete avec CORAIL |
| 8/22/21 | 12:39 | Canyon de Lampaul | N 47 33.691 | W 007 31.718 | 1672 | zone de debris |
| 8/22/21 | 12:39 | Canyon de Lampaul | N 47 33.691 | W 007 31.716 | 1669 | ligne? de? |
| 8/22/21 | 12:40 | Canyon de Lampaul | N 47 33.691 | W 007 31.712 | 1664 | CORAIL dense |
| 8/22/21 | 12:41 | Canyon de Lampaul | N 47 33.693 | W 007 31.708 | 1657 | CORAIL dense |
| 8/22/21 | 12:42 | Canyon de Lampaul | N 47 33.693 | W 007 31.708 | 1655 | zoom |
| 8/22/21 | 12:42 | Canyon de Lampaul | N 47 33.693 | W 007 31.708 | 1653 | crinoides sur Solenosmilia morts |
| 8/22/21 | 12:43 | Canyon de Lampaul | N 47 33.693 | W 007 31.706 | 1644 | CORAIL dense |
| 8/22/21 | 12:45 | Canyon de Lampaul | N 47 33.691 | W 007 31.706 | 1637 | le courant pousse vers le bas, difficile de monter |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/22/21 | 12:45 | Canyon de Lampaul | N 47 33.689 | W 007 31.705 | 1631 | eponge |
| 8/22/21 | 12:46 | Canyon de Lampaul | N 47 33.690 | W 007 31.707 | 1626 | grandes gorgonesau loin |
| 8/22/21 | 12:47 | Canyon de Lampaul | N 47 33.692 | W 007 31.706 | 1626 | grandes gorgones |
| 8/22/21 | 12:47 | Canyon de Lampaul | N 47 33.695 | W 007 31.705 | 1625 | grandes gorgones, ascidies |
| 8/22/21 | 12:48 | Canyon de Lampaul | N 47 33.699 | W 007 31.704 | 1624 | zoom sur gorgones |
| 8/22/21 | 12:49 | Canyon de Lampaul | N 47 33.700 | W 007 31.705 | 1622 | Solenosmilia vivants? |
| 8/22/21 | 12:50 | Canyon de Lampaul | N 47 33.701 | W 007 31.703 | 1618 | alignement de CORAIL et gorgones |
| 8/22/21 | 12:51 | Canyon de Lampaul | N 47 33.702 | W 007 31.703 | 1617 | courant porte vers le sud |
| 8/22/21 | 12:51 | Canyon de Lampaul | N 47 33.702 | W 007 31.705 | 1615 | Acesta |
| 8/22/21 | 12:52 | Canyon de Lampaul | N 47 33.702 | W 007 31.705 | 1614 | crinoides gorgones et Solenosmilia |
| 8/22/21 | 12:52 | Canyon de Lampaul | N 47 33.702 | W 007 31.705 | 1611 | Grande gorgone |
| 8/22/21 | 12:52 | Canyon de Lampaul | N 47 33.702 | W 007 31.703 | 1608 | axe de cnidaire |
| 8/22/21 | 12:53 | Canyon de Lampaul | N 47 33.703 | W 007 31.704 | 1606 | vue d'ensemble |
| 8/22/21 | 12:53 | Canyon de Lampaul | N 47 33.701 | W 007 31.703 | 1603 | vue d'ensemble |
| 8/22/21 | 12:53 | Canyon de Lampaul | N 47 33.701 | W 007 31.702 | 1602 | CORAIL suite |
| 8/22/21 | 12:54 | Canyon de Lampaul | N 47 33.700 | W 007 31.701 | 1596 | Sommet |
| 8/22/21 | 12:55 | Canyon de Lampaul | N 47 33.700 | W 007 31.701 | 1593 | Sommet de la falaise 2 Est |
| 8/22/21 | 12:56 | Canyon de Lampaul | N 47 33.696 | W 007 31.699 | 1586 | gorgones Keratoisis ? (les grandes oranges) |
| 8/22/21 | 12:57 | Canyon de Lampaul | N 47 33.694 | W 007 31.700 | 1579 | alignement de gorgones sur CORAIL Solenosmilia |
| 8/22/21 | 12:59 | Canyon de Lampaul | N 47 33.687 | W 007 31.697 | 1564 | CORAIL au sommet |
| 8/22/21 | 13:00 | Canyon de | N 47 | W 007 | 1556 | Fin de profil falaise 2 Est 5m |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 33.679 | 31.697 | | |
| 8/22/21 | 13:06 | Canyon de Lampaul | N 47 33.681 | W 007 31.711 | 1560 | Fin exploration video |
| 8/22/21 | 13:07 | Canyon de Lampaul | N 47 33.680 | W 007 31.713 | 1560 | Manip de clampage pour aller vers le nord de la falaise 2 |
| 8/22/21 | 13:07 | Canyon de Lampaul | N 47 33.680 | W 007 31.715 | 1560 | declamapage |
| 8/22/21 | 14:00 | Canyon de Lampaul | N 47 33.996 | W 007 31.772 | 1750 | Debut profil P7 Falaise 2 Nord visuel et SMF 5m |
| 8/22/21 | 14:04 | Canyon de Lampaul | N 47 34.041 | W 007 31.747 | 1749 | Debris et CORAIL mort |
| 8/22/21 | 14:04 | Canyon de Lampaul | N 47 34.043 | W 007 31.744 | 1749 | debut de falaise |
| 8/22/21 | 14:05 | Canyon de Lampaul | N 47 34.044 | W 007 31.745 | 1749 | courant pousse vers nord ouest |
| 8/22/21 | 14:05 | Canyon de Lampaul | N 47 34.044 | W 007 31.744 | 1748 | CORAIL dense vivant |
| 8/22/21 | 14:05 | Canyon de Lampaul | N 47 34.042 | W 007 31.747 | 1740 | replat substrat dur lisse |
| 8/22/21 | 14:06 | Canyon de Lampaul | N 47 34.043 | W 007 31.748 | 1732 | Eboulis |
| 8/22/21 | 14:06 | Canyon de Lampaul | N 47 34.044 | W 007 31.749 | 1729 | CORAIL peu dense a dense |
| 8/22/21 | 14:07 | Canyon de Lampaul | N 47 34.045 | W 007 31.753 | 1715 | CORAIL mort et vivant. Comatules gorgones eponges asterides |
| 8/22/21 | 14:08 | Canyon de Lampaul | N 47 34.044 | W 007 31.757 | 1695 | gorgone |
| 8/22/21 | 14:08 | Canyon de Lampaul | N 47 34.044 | W 007 31.756 | 1688 | Gorgones differentes especes |
| 8/22/21 | 14:09 | Canyon de Lampaul | N 47 34.045 | W 007 31.754 | 1668 | CORAIL dense Solenosmillia |
| 8/22/21 | 14:10 | Canyon de Lampaul | N 47 34.045 | W 007 31.751 | 1648 | asteride actinies Acesta |
| 8/22/21 | 14:10 | Canyon de Lampaul | N 47 34.045 | W 007 31.751 | 1641 | Gorgones |
| 8/22/21 | 14:13 | Canyon de Lampaul | N 47 34.043 | W 007 31.747 | 1603 | Eponge |
| 8/22/21 | 14:13 | Canyon de Lampaul | N 47 34.043 | W 007 31.746 | 1594 | Gorgone Narella? |
| 8/22/21 | 14:13 | Canyon de Lampaul | N 47 34.043 | W 007 31.746 | 1593 | Belles gorgones |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/22/21 | 14:14 | Canyon de Lampaul | N 47 34.043 | W 007 31.745 | 1587 | Poissons, ascidies? |
| 8/22/21 | 14:16 | Canyon de Lampaul | N 47 34.042 | W 007 31.736 | 1567 | Colonies mortes de grande taille |
| 8/22/21 | 14:16 | Canyon de Lampaul | N 47 34.042 | W 007 31.735 | 1564 | Marche avec debris |
| 8/22/21 | 14:16 | Canyon de Lampaul | N 47 34.042 | W 007 31.735 | 1562 | contre marche colonisee |
| 8/22/21 | 14:16 | Canyon de Lampaul | N 47 34.042 | W 007 31.735 | 1558 | replat, sediment meuble puis quelques petits recifs |
| 8/22/21 | 14:17 | Canyon de Lampaul | N 47 34.044 | W 007 31.737 | 1554 | courant vers Sud des l arrivee sur le plateau |
| 8/22/21 | 14:17 | Canyon de Lampaul | N 47 34.044 | W 007 31.739 | 1553 | Eponges Hexactinellides |
| 8/22/21 | 14:18 | Canyon de Lampaul | N 47 34.045 | W 007 31.739 | 1553 | eponges sur colonies mortes |
| 8/22/21 | 14:19 | Canyon de Lampaul | N 47 34.047 | W 007 31.736 | 1552 | CORAIL morts et eponges |
| 8/22/21 | 14:20 | Canyon de Lampaul | N 47 34.059 | W 007 31.738 | 1546 | rides de courant, colonies mortes et eponges |
| 8/22/21 | 14:22 | Canyon de Lampaul | N 47 34.069 | W 007 31.741 | 1547 | Gorogone ou antipathaire couche par le courant |
| 8/22/21 | 14:22 | Canyon de Lampaul | N 47 34.071 | W 007 31.742 | 1547 | Fin de profil |
| 8/22/21 | 14:23 | Canyon de Lampaul | N 47 34.057 | W 007 31.750 | 1544 | Fin de plongee |

6.15. Dive: 212 - 15

Date: **23/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|--|
| 23/08/2021 | 08:00 | Olu Karine, Fezzani Ridha, Fabri Marie-Claire, Tourolle Julie, Karoui Imen |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

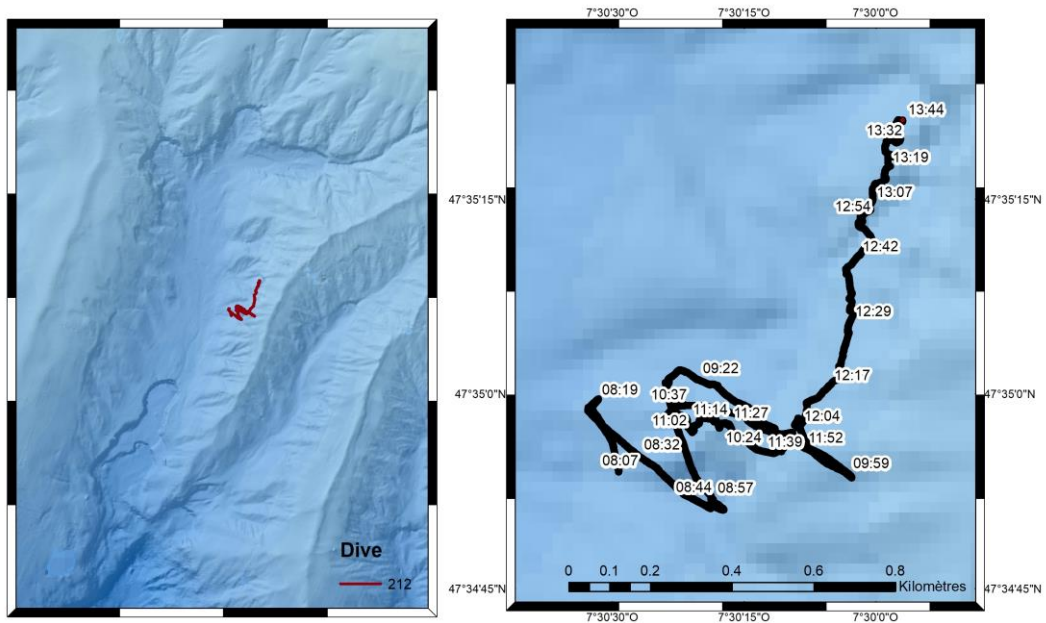
6.15.1. Objectives

MEBS and OPTIC surveys along and across the eastern flank at 70 m – 60 m altitude and exploration of the base of the lower cliff (falaise 2)

6.15.2. Work abstract

- 0 Sample operations
- 0 Measures
- 0 Moorings
- 229 Images

6.15.3. Map



6.15.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/23/21 | 08:09 | Canyon de Lampaul | N 47 34.919 | W 007 30.494 | 1241 | Arrivee au fond |
| 8/23/21 | 08:10 | Canyon de Lampaul | N 47 34.920 | W 007 30.494 | 1241 | on rejoint le bas du profil |
| 8/23/21 | 08:10 | Canyon de Lampaul | N 47 34.920 | W 007 30.494 | 1241 | debut profil transit vers point de depart |
| 8/23/21 | 08:16 | Canyon de Lampaul | N 47 34.977 | W 007 30.545 | 1196 | fin profil transit |
| 8/23/21 | 08:22 | Canyon de Lampaul | N 47 34.982 | W 007 30.546 | 1196 | devut de profil smf P1 a 60m 300 khz |
| 8/23/21 | 08:47 | Canyon de Lampaul | N 47 34.857 | W 007 30.326 | 1050 | fin de profil P1 |
| 8/23/21 | 08:55 | Canyon de Lampaul | N 47 34.861 | W 007 30.310 | 915 | clampage |
| 8/23/21 | 09:16 | Canyon de Lampaul | N 47 35.018 | W 007 30.394 | 1083 | declampage |
| 8/23/21 | 09:18 | Canyon de Lampaul | N 47 35.030 | W 007 30.373 | 1099 | debut de profil P2 a 70 m et 300 khz |
| 8/23/21 | 09:32 | Canyon de | N 47 | W 007 | 995 | courant portant au nord |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 34.980 | 30.239 | | |
| 8/23/21 | 10:00 | Canyon de Lampaul | N 47 34.894 | W 007 30.048 | 791 | Fin du profil P2 |
| 8/23/21 | 10:39 | Canyon de Lampaul | N 47 34.975 | W 007 30.393 | 1138 | declampage |
| 8/23/21 | 10:40 | Canyon de Lampaul | N 47 34.974 | W 007 30.394 | 1140 | Deplacement vers le pied de la structure rocheuse |
| 8/23/21 | 10:42 | Canyon de Lampaul | N 47 34.970 | W 007 30.396 | 1153 | Arrivée sur la structure |
| 8/23/21 | 10:42 | Canyon de Lampaul | N 47 34.970 | W 007 30.396 | 1153 | Le courant porte vers le sud |
| 8/23/21 | 10:43 | Canyon de Lampaul | N 47 34.970 | W 007 30.395 | 1154 | Presence d'antipathaires, poisson argente |
| 8/23/21 | 10:43 | Canyon de Lampaul | N 47 34.972 | W 007 30.392 | 1155 | grosses anemones |
| 8/23/21 | 10:44 | Canyon de Lampaul | N 47 34.975 | W 007 30.387 | 1153 | jardin d'antipathaires |
| 8/23/21 | 10:45 | Canyon de Lampaul | N 47 34.976 | W 007 30.382 | 1153 | exploration de la partie rocheuse |
| 8/23/21 | 10:45 | Canyon de Lampaul | N 47 34.976 | W 007 30.380 | 1152 | Presence de CORAIL Solenosmilia vivants, peu dense |
| 8/23/21 | 10:46 | Canyon de Lampaul | N 47 34.972 | W 007 30.375 | 1144 | gorgones oranges sur arrete |
| 8/23/21 | 10:48 | Canyon de Lampaul | N 47 34.970 | W 007 30.370 | 1137 | gorgones oranges |
| 8/23/21 | 10:48 | Canyon de Lampaul | N 47 34.970 | W 007 30.369 | 1137 | Solenosmilia sur l'arrete (voir APN) CORAIL |
| 8/23/21 | 10:49 | Canyon de Lampaul | N 47 34.967 | W 007 30.366 | 1136 | Debris corail sur arrete en bas |
| 8/23/21 | 10:50 | Canyon de Lampaul | N 47 34.966 | W 007 30.364 | 1134 | exploration face nord du bloc rocheux, gorgones orange (Leiopathes) en haut |
| 8/23/21 | 10:50 | Canyon de Lampaul | N 47 34.968 | W 007 30.361 | 1135 | on descend plus bas |
| 8/23/21 | 10:52 | Canyon de Lampaul | N 47 34.965 | W 007 30.358 | 1148 | CORAIL mort en bas |
| 8/23/21 | 10:53 | Canyon de Lampaul | N 47 34.964 | W 007 30.358 | 1149 | CORAIL mort en place, quelques colonies vivantes |
| 8/23/21 | 10:53 | Canyon de Lampaul | N 47 34.962 | W 007 30.358 | 1149 | beaucoup de poissons |
| 8/23/21 | 10:54 | Canyon de Lampaul | N 47 34.957 | W 007 30.355 | 1141 | Arrivée au pied du mont plus grand |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
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| 8/23/21 | 10:55 | Canyon de Lampaul | N 47 34.955 | W 007 30.353 | 1137 | Presence de debris |
| 8/23/21 | 10:55 | Canyon de Lampaul | N 47 34.954 | W 007 30.350 | 1136 | gorgones blanches ou antipathaires? |
| 8/23/21 | 10:56 | Canyon de Lampaul | N 47 34.953 | W 007 30.349 | 1134 | Gorgone Isididae |
| 8/23/21 | 10:56 | Canyon de Lampaul | N 47 34.953 | W 007 30.349 | 1134 | tapis de squelettes de Solenosmilia ou Lophelia? |
| 8/23/21 | 10:57 | Canyon de Lampaul | N 47 34.953 | W 007 30.348 | 1131 | poisson |
| 8/23/21 | 10:57 | Canyon de Lampaul | N 47 34.953 | W 007 30.348 | 1131 | Stichopathes |
| 8/23/21 | 10:57 | Canyon de Lampaul | N 47 34.953 | W 007 30.347 | 1131 | Serpulidae |
| 8/23/21 | 10:58 | Canyon de Lampaul | N 47 34.953 | W 007 30.345 | 1128 | tapis de Serpulidae, Stichopathes, Gorgones blanches (Isididae ou Antipathaire?) |
| 8/23/21 | 10:59 | Canyon de Lampaul | N 47 34.951 | W 007 30.348 | 1122 | Zoom sur Leiopathes |
| 8/23/21 | 11:00 | Canyon de Lampaul | N 47 34.951 | W 007 30.348 | 1120 | poisson noir |
| 8/23/21 | 11:01 | Canyon de Lampaul | N 47 34.951 | W 007 30.349 | 1112 | Arrete au sommet |
| 8/23/21 | 11:02 | Canyon de Lampaul | N 47 34.952 | W 007 30.347 | 1105 | Lignes de peche |
| 8/23/21 | 11:03 | Canyon de Lampaul | N 47 34.952 | W 007 30.351 | 1107 | Degagement de la zone |
| 8/23/21 | 11:05 | Canyon de Lampaul | N 47 34.956 | W 007 30.350 | 1100 | Ligne de peche en face |
| 8/23/21 | 11:06 | Canyon de Lampaul | N 47 34.961 | W 007 30.339 | 1097 | Beaucoup de lignes |
| 8/23/21 | 11:07 | Canyon de Lampaul | N 47 34.963 | W 007 30.335 | 1095 | noeuds |
| 8/23/21 | 11:07 | Canyon de Lampaul | N 47 34.965 | W 007 30.335 | 1096 | Emellement de bouts |
| 8/23/21 | 11:08 | Canyon de Lampaul | N 47 34.968 | W 007 30.331 | 1100 | CORAIL Solenosmilia ou Lophelia? |
| 8/23/21 | 11:08 | Canyon de Lampaul | N 47 34.968 | W 007 30.330 | 1099 | Leiopathes |
| 8/23/21 | 11:08 | Canyon de Lampaul | N 47 34.968 | W 007 30.329 | 1099 | CORAIL mort |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/23/21 | 11:09 | Canyon de Lampaul | N 47 34.969 | W 007 30.326 | 1100 | tapis noirs |
| 8/23/21 | 11:10 | Canyon de Lampaul | N 47 34.968 | W 007 30.322 | 1099 | gorgone jaune |
| 8/23/21 | 11:10 | Canyon de Lampaul | N 47 34.968 | W 007 30.317 | 1094 | gorgones jaunes Enallopsammia |
| 8/23/21 | 11:12 | Canyon de Lampaul | N 47 34.967 | W 007 30.310 | 1081 | couverture de Leiopathes |
| 8/23/21 | 11:12 | Canyon de Lampaul | N 47 34.967 | W 007 30.310 | 1079 | eponge blanche |
| 8/23/21 | 11:13 | Canyon de Lampaul | N 47 34.967 | W 007 30.304 | 1067 | champs de Leiopathes , poissons |
| 8/23/21 | 11:14 | Canyon de Lampaul | N 47 34.966 | W 007 30.306 | 1060 | gorgones blanches (deux fidderentes) au milieu des Leiopathes |
| 8/23/21 | 11:14 | Canyon de Lampaul | N 47 34.965 | W 007 30.305 | 1060 | Brachiopode, serpulidae |
| 8/23/21 | 11:15 | Canyon de Lampaul | N 47 34.965 | W 007 30.305 | 1060 | Leiopathes |
| 8/23/21 | 11:15 | Canyon de Lampaul | N 47 34.965 | W 007 30.306 | 1059 | Leiopathes |
| 8/23/21 | 11:15 | Canyon de Lampaul | N 47 34.966 | W 007 30.307 | 1057 | Leiopathes |
| 8/23/21 | 11:16 | Canyon de Lampaul | N 47 34.966 | W 007 30.307 | 1054 | Leiopathes oranges, gorgones blanches |
| 8/23/21 | 11:16 | Canyon de Lampaul | N 47 34.965 | W 007 30.308 | 1051 | Solenosmila ou Lophelia? (APN), oursins |
| 8/23/21 | 11:17 | Canyon de Lampaul | N 47 34.964 | W 007 30.306 | 1049 | Leiopathes |
| 8/23/21 | 11:17 | Canyon de Lampaul | N 47 34.964 | W 007 30.305 | 1048 | Bathypathes |
| 8/23/21 | 11:17 | Canyon de Lampaul | N 47 34.964 | W 007 30.305 | 1048 | Solenosmillia ou Lophelia? |
| 8/23/21 | 11:17 | Canyon de Lampaul | N 47 34.964 | W 007 30.305 | 1047 | Leiopathes |
| 8/23/21 | 11:18 | Canyon de Lampaul | N 47 34.963 | W 007 30.300 | 1046 | Sommet couvert de Leiopathes, alternance de Solenosmilia |
| 8/23/21 | 11:20 | Canyon de Lampaul | N 47 34.961 | W 007 30.297 | 1045 | Solenosmilia ou Lophelia? |
| 8/23/21 | 11:20 | Canyon de Lampaul | N 47 34.959 | W 007 30.298 | 1041 | roche fissure |
| 8/23/21 | 11:27 | Canyon de | N 47 | W 007 | 1055 | Bathypathes |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
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| | | Lampaul | 34.961 | 30.281 | | |
| 8/23/21 | 11:29 | Canyon de Lampaul | N 47 34.949 | W 007 30.271 | 1062 | Arrivee en bas de la pente |
| 8/23/21 | 11:29 | Canyon de Lampaul | N 47 34.947 | W 007 30.271 | 1061 | traversee du goulet |
| 8/23/21 | 11:30 | Canyon de Lampaul | N 47 34.942 | W 007 30.267 | 1060 | petite roche au fond |
| 8/23/21 | 11:31 | Canyon de Lampaul | N 47 34.940 | W 007 30.261 | 1059 | couverture de gorgones blanches ou antipathaires? |
| 8/23/21 | 11:31 | Canyon de Lampaul | N 47 34.938 | W 007 30.255 | 1059 | Bathypathes sur le bloc rocheux |
| 8/23/21 | 11:32 | Canyon de Lampaul | N 47 34.939 | W 007 30.254 | 1057 | couverture de gorgones blanches ou antipathaires?, et Enallopsammia |
| 8/23/21 | 11:32 | Canyon de Lampaul | N 47 34.939 | W 007 30.249 | 1057 | Bathypathes |
| 8/23/21 | 11:34 | Canyon de Lampaul | N 47 34.936 | W 007 30.241 | 1059 | Antipathaires blancs? gorgones oranges |
| 8/23/21 | 11:34 | Canyon de Lampaul | N 47 34.934 | W 007 30.238 | 1057 | Fin de l'exploration du bloc, on continue la traversée du goulet vers la falaise |
| 8/23/21 | 11:36 | Canyon de Lampaul | N 47 34.930 | W 007 30.230 | 1059 | poissons |
| 8/23/21 | 11:36 | Canyon de Lampaul | N 47 34.929 | W 007 30.228 | 1058 | Fond du goulet sedimenté |
| 8/23/21 | 11:38 | Canyon de Lampaul | N 47 34.924 | W 007 30.202 | 1045 | CORAIL mort, beaucoup de debris |
| 8/23/21 | 11:38 | Canyon de Lampaul | N 47 34.924 | W 007 30.197 | 1040 | CORAIL mort, debris |
| 8/23/21 | 11:39 | Canyon de Lampaul | N 47 34.924 | W 007 30.193 | 1035 | CORAIL mort en place |
| 8/23/21 | 11:39 | Canyon de Lampaul | N 47 34.924 | W 007 30.192 | 1033 | CORAIL vivant? |
| 8/23/21 | 11:39 | Canyon de Lampaul | N 47 34.924 | W 007 30.191 | 1030 | On remonte la falaise |
| 8/23/21 | 11:40 | Canyon de Lampaul | N 47 34.927 | W 007 30.185 | 1026 | CORAIL mort en place |
| 8/23/21 | 11:41 | Canyon de Lampaul | N 47 34.927 | W 007 30.182 | 1021 | quelque colonies vivantes (APN) |
| 8/23/21 | 11:42 | Canyon de Lampaul | N 47 34.926 | W 007 30.180 | 1013 | zoom sur parois |
| 8/23/21 | 11:42 | Canyon de Lampaul | N 47 34.927 | W 007 30.180 | 1011 | Enallopsammia mourant |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
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| 8/23/21 | 11:42 | Canyon de Lampaul | N 47 34.928 | W 007 30.178 | 1010 | gorgone jaune en bas a gauche |
| 8/23/21 | 11:43 | Canyon de Lampaul | N 47 34.929 | W 007 30.179 | 1002 | Antipathaire |
| 8/23/21 | 11:44 | Canyon de Lampaul | N 47 34.928 | W 007 30.179 | 1002 | zone de debris? a droite |
| 8/23/21 | 11:44 | Canyon de Lampaul | N 47 34.926 | W 007 30.180 | 1003 | on s'approche |
| 8/23/21 | 11:45 | Canyon de Lampaul | N 47 34.925 | W 007 30.179 | 999 | Banc d'huitres morte et quelques vivantes |
| 8/23/21 | 11:45 | Canyon de Lampaul | N 47 34.926 | W 007 30.179 | 996 | Leiopathes oranges |
| 8/23/21 | 11:45 | Canyon de Lampaul | N 47 34.926 | W 007 30.179 | 995 | CORAIL Solenosmilia mourants |
| 8/23/21 | 11:45 | Canyon de Lampaul | N 47 34.928 | W 007 30.178 | 995 | LEiopathes |
| 8/23/21 | 11:45 | Canyon de Lampaul | N 47 34.928 | W 007 30.178 | 995 | Solenosmilia quelques vivants |
| 8/23/21 | 11:46 | Canyon de Lampaul | N 47 34.928 | W 007 30.177 | 994 | Leiopathes |
| 8/23/21 | 11:48 | Canyon de Lampaul | N 47 34.934 | W 007 30.170 | 969 | debris de roches sur le rebord de la falaise |
| 8/23/21 | 11:48 | Canyon de Lampaul | N 47 34.936 | W 007 30.165 | 967 | Sillon |
| 8/23/21 | 11:48 | Canyon de Lampaul | N 47 34.936 | W 007 30.164 | 967 | Structure rocheuse sur le sommet |
| 8/23/21 | 11:49 | Canyon de Lampaul | N 47 34.937 | W 007 30.160 | 965 | stop-redemarr sur le fichier video, et SMF avec colonne d'eau |
| 8/23/21 | 11:50 | Canyon de Lampaul | N 47 34.938 | W 007 30.153 | 961 | on avance sur le rebord de la falaise |
| 8/23/21 | 11:50 | Canyon de Lampaul | N 47 34.937 | W 007 30.151 | 958 | Anthozoaire |
| 8/23/21 | 11:51 | Canyon de Lampaul | N 47 34.934 | W 007 30.144 | 950 | stop smf stope video |
| 8/23/21 | 11:51 | Canyon de Lampaul | N 47 34.933 | W 007 30.140 | 946 | New fichier video - SMF sans colonne d'eau |
| 8/23/21 | 11:52 | Canyon de Lampaul | N 47 34.929 | W 007 30.131 | 935 | quelques petites colonies de coraux (Solenosmillia) morte sur place |
| 8/23/21 | 11:53 | Canyon de Lampaul | N 47 34.928 | W 007 30.127 | 931 | substrat = calcaire dur |
| 8/23/21 | 11:53 | Canyon de | N 47 | W 007 | 924 | stop video - stop smf |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
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| | | Lampaul | 34.926 | 30.123 | | |
| 8/23/21 | 11:54 | Canyon de Lampaul | N 47 34.927 | W 007 30.123 | 922 | On redescend sur la falaise, au niveau du banc d'huitres |
| 8/23/21 | 12:03 | Canyon de Lampaul | N 47 34.956 | W 007 30.148 | 1005 | antipathaire |
| 8/23/21 | 12:04 | Canyon de Lampaul | N 47 34.957 | W 007 30.148 | 1008 | Corail mort |
| 8/23/21 | 12:07 | Canyon de Lampaul | N 47 34.968 | W 007 30.135 | 1008 | antipathaire |
| 8/23/21 | 12:07 | Canyon de Lampaul | N 47 34.971 | W 007 30.134 | 1008 | Substrat dur roche calcaire? avec un peu de sediment |
| 8/23/21 | 12:09 | Canyon de Lampaul | N 47 34.979 | W 007 30.130 | 996 | huitre |
| 8/23/21 | 12:09 | Canyon de Lampaul | N 47 34.981 | W 007 30.131 | 989 | leioopathes |
| 8/23/21 | 12:10 | Canyon de Lampaul | N 47 34.985 | W 007 30.131 | 987 | Substrat dur |
| 8/23/21 | 12:11 | Canyon de Lampaul | N 47 34.993 | W 007 30.116 | 975 | huitres |
| 8/23/21 | 12:12 | Canyon de Lampaul | N 47 34.994 | W 007 30.114 | 973 | huitres quelques vivantes |
| 8/23/21 | 12:12 | Canyon de Lampaul | N 47 34.994 | W 007 30.111 | 972 | zoom sur huitres |
| 8/23/21 | 12:12 | Canyon de Lampaul | N 47 34.995 | W 007 30.111 | 966 | antipathaire |
| 8/23/21 | 12:15 | Canyon de Lampaul | N 47 35.004 | W 007 30.099 | 958 | Bathypathes |
| 8/23/21 | 12:15 | Canyon de Lampaul | N 47 35.004 | W 007 30.099 | 958 | vue du sommet |
| 8/23/21 | 12:15 | Canyon de Lampaul | N 47 35.004 | W 007 30.098 | 958 | Corail |
| 8/23/21 | 12:15 | Canyon de Lampaul | N 47 35.004 | W 007 30.098 | 958 | Antozoaire |
| 8/23/21 | 12:17 | Canyon de Lampaul | N 47 35.011 | W 007 30.087 | 955 | sommet nu |
| 8/23/21 | 12:17 | Canyon de Lampaul | N 47 35.015 | W 007 30.082 | 955 | Antipathaires blancs |
| 8/23/21 | 12:18 | Canyon de Lampaul | N 47 35.016 | W 007 30.079 | 955 | fil de peche |
| 8/23/21 | 12:19 | Canyon de Lampaul | N 47 35.018 | W 007 30.072 | 955 | le substrat s'effrite |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
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| 8/23/21 | 12:19 | Canyon de Lampaul | N 47 35.019 | W 007 30.071 | 955 | beaucoup de petits blocs |
| 8/23/21 | 12:22 | Canyon de Lampaul | N 47 35.034 | W 007 30.068 | 954 | CORAIL 1 colonie |
| 8/23/21 | 12:22 | Canyon de Lampaul | N 47 35.034 | W 007 30.068 | 956 | CORAIL |
| 8/23/21 | 12:22 | Canyon de Lampaul | N 47 35.034 | W 007 30.068 | 957 | oursins |
| 8/23/21 | 12:22 | Canyon de Lampaul | N 47 35.034 | W 007 30.068 | 960 | Bathypathes |
| 8/23/21 | 12:23 | Canyon de Lampaul | N 47 35.034 | W 007 30.068 | 968 | quelques huitres |
| 8/23/21 | 12:23 | Canyon de Lampaul | N 47 35.034 | W 007 30.069 | 969 | quelques antipathaires blancs |
| 8/23/21 | 12:27 | Canyon de Lampaul | N 47 35.072 | W 007 30.054 | 977 | Antipathaires |
| 8/23/21 | 12:29 | Canyon de Lampaul | N 47 35.085 | W 007 30.053 | 990 | couverture de colonies blanches (gorgones? antipathaires?) |
| 8/23/21 | 12:31 | Canyon de Lampaul | N 47 35.106 | W 007 30.045 | 992 | toujours la meme couverture de colonies blanches |
| 8/23/21 | 12:32 | Canyon de Lampaul | N 47 35.107 | W 007 30.050 | 1000 | colonies blanches |
| 8/23/21 | 12:33 | Canyon de Lampaul | N 47 35.120 | W 007 30.047 | 1002 | on passe quelques eboulements |
| 8/23/21 | 12:34 | Canyon de Lampaul | N 47 35.125 | W 007 30.048 | 1008 | toujours les colonies blanches sur les blocs |
| 8/23/21 | 12:35 | Canyon de Lampaul | N 47 35.129 | W 007 30.045 | 1006 | Substrat dur avec beaucoup de sediment, roche calcaire |
| 8/23/21 | 12:36 | Canyon de Lampaul | N 47 35.142 | W 007 30.050 | 1015 | colonies blanches sur substrats durs avec couverture de sediment |
| 8/23/21 | 12:36 | Canyon de Lampaul | N 47 35.147 | W 007 30.051 | 1020 | sediment sur rebord |
| 8/23/21 | 12:39 | Canyon de Lampaul | N 47 35.161 | W 007 30.055 | 1031 | colonies blanches |
| 8/23/21 | 12:40 | Canyon de Lampaul | N 47 35.167 | W 007 30.046 | 1027 | BAthypathes et colonies blanches |
| 8/23/21 | 12:41 | Canyon de Lampaul | N 47 35.169 | W 007 30.043 | 1027 | mur de colonies blanches |
| 8/23/21 | 12:41 | Canyon de Lampaul | N 47 35.173 | W 007 30.038 | 1027 | BAthypathes et colonies blanches (gorgone ou antipathaire?) |
| 8/23/21 | 12:43 | Canyon de | N 47 | W 007 | 1027 | mur de colonies blanches |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
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| | | Lampaul | 35.186 | 30.023 | | |
| 8/23/21 | 12:44 | Canyon de Lampaul | N 47 35.190 | W 007 30.019 | 1027 | substrat recouvert de quelque chose de noir |
| 8/23/21 | 12:44 | Canyon de Lampaul | N 47 35.192 | W 007 30.016 | 1027 | colonies blanches et 1 Bathypathes au milieu |
| 8/23/21 | 12:45 | Canyon de Lampaul | N 47 35.200 | W 007 30.009 | 1027 | zone d'eboulement, on decide de passer plus bas |
| 8/23/21 | 12:45 | Canyon de Lampaul | N 47 35.200 | W 007 30.010 | 1029 | bloc |
| 8/23/21 | 12:46 | Canyon de Lampaul | N 47 35.204 | W 007 30.013 | 1034 | petits blocs rocheux |
| 8/23/21 | 12:47 | Canyon de Lampaul | N 47 35.213 | W 007 30.024 | 1036 | un petit mont devant nous |
| 8/23/21 | 12:47 | Canyon de Lampaul | N 47 35.213 | W 007 30.025 | 1035 | couvert de colonies blanches |
| 8/23/21 | 12:47 | Canyon de Lampaul | N 47 35.213 | W 007 30.027 | 1035 | colonies sur le sommet |
| 8/23/21 | 12:49 | Canyon de Lampaul | N 47 35.221 | W 007 30.032 | 1022 | CORAIL Solenosmilia morts |
| 8/23/21 | 12:49 | Canyon de Lampaul | N 47 35.221 | W 007 30.031 | 1021 | quelques colonies vivantes |
| 8/23/21 | 12:50 | Canyon de Lampaul | N 47 35.222 | W 007 30.028 | 1017 | Madrepora |
| 8/23/21 | 12:50 | Canyon de Lampaul | N 47 35.221 | W 007 30.028 | 1017 | Colonie vivant, Lophelia? |
| 8/23/21 | 12:51 | Canyon de Lampaul | N 47 35.221 | W 007 30.028 | 1017 | etendue de colonies mortes |
| 8/23/21 | 12:51 | Canyon de Lampaul | N 47 35.223 | W 007 30.027 | 1017 | CORAIL mort |
| 8/23/21 | 12:52 | Canyon de Lampaul | N 47 35.225 | W 007 30.028 | 1016 | jardin de CORAIL mort et vivant |
| 8/23/21 | 12:52 | Canyon de Lampaul | N 47 35.226 | W 007 30.028 | 1013 | Stichopathes |
| 8/23/21 | 12:53 | Canyon de Lampaul | N 47 35.227 | W 007 30.028 | 1013 | Leiopathes oranges |
| 8/23/21 | 12:53 | Canyon de Lampaul | N 47 35.227 | W 007 30.027 | 1006 | Colonies de Leiopathes oranges |
| 8/23/21 | 12:53 | Canyon de Lampaul | N 47 35.227 | W 007 30.027 | 1007 | CORAIL vivant |
| 8/23/21 | 12:54 | Canyon de Lampaul | N 47 35.227 | W 007 30.026 | 1005 | Leiopathes oranges |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
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| 8/23/21 | 12:54 | Canyon de Lampaul | N 47 35.227 | W 007 30.027 | 1004 | CORAIL vivant |
| 8/23/21 | 12:54 | Canyon de Lampaul | N 47 35.228 | W 007 30.028 | 1004 | vue d'ensemble |
| 8/23/21 | 12:55 | Canyon de Lampaul | N 47 35.227 | W 007 30.029 | 1004 | vue d'ensemble |
| 8/23/21 | 12:56 | Canyon de Lampaul | N 47 35.228 | W 007 30.029 | 1004 | zoom |
| 8/23/21 | 12:57 | Canyon de Lampaul | N 47 35.226 | W 007 30.029 | 999 | Photos des colonies de CORAIL pour identification (APN) |
| 8/23/21 | 12:59 | Canyon de Lampaul | N 47 35.222 | W 007 30.026 | 994 | Lophelia |
| 8/23/21 | 13:02 | Canyon de Lampaul | N 47 35.228 | W 007 30.028 | 996 | vue du petit bloc couvert de Leiopathes oranges |
| 8/23/21 | 13:02 | Canyon de Lampaul | N 47 35.230 | W 007 30.025 | 998 | on poursuit vers le nord |
| 8/23/21 | 13:04 | Canyon de Lampaul | N 47 35.237 | W 007 30.010 | 998 | un bloc avec partie noire couverte de faune dont CORAIL mort, quelques vivants |
| 8/23/21 | 13:05 | Canyon de Lampaul | N 47 35.238 | W 007 30.012 | 998 | vue du bloc |
| 8/23/21 | 13:05 | Canyon de Lampaul | N 47 35.241 | W 007 30.013 | 998 | colonies blanches sur le bloc, partie blanche |
| 8/23/21 | 13:06 | Canyon de Lampaul | N 47 35.244 | W 007 30.010 | 998 | debris au pied du bloc |
| 8/23/21 | 13:07 | Canyon de Lampaul | N 47 35.249 | W 007 30.006 | 998 | fond dur couvert de sediment |
| 8/23/21 | 13:08 | Canyon de Lampaul | N 47 35.254 | W 007 30.005 | 997 | colonies blanches sur blocs rocheux |
| 8/23/21 | 13:08 | Canyon de Lampaul | N 47 35.256 | W 007 30.006 | 996 | couverture de sediment entre les blocs |
| 8/23/21 | 13:10 | Canyon de Lampaul | N 47 35.265 | W 007 30.004 | 995 | APN : dechet blanc |
| 8/23/21 | 13:10 | Canyon de Lampaul | N 47 35.267 | W 007 30.002 | 989 | Bathypathes |
| 8/23/21 | 13:12 | Canyon de Lampaul | N 47 35.269 | W 007 30.002 | 983 | vue du bloc rocheux |
| 8/23/21 | 13:13 | Canyon de Lampaul | N 47 35.271 | W 007 29.994 | 979 | bloc effondre |
| 8/23/21 | 13:13 | Canyon de Lampaul | N 47 35.271 | W 007 29.993 | 977 | colonies CORAIL mort en bas |
| 8/23/21 | 13:13 | Canyon de | N 47 | W 007 | 973 | colonies blanches sur bloc |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 35.272 | 29.991 | | |
| 8/23/21 | 13:14 | Canyon de Lampaul | N 47 35.275 | W 007 29.985 | 958 | LEiopathes orange et 1 colonie de CORAIL |
| 8/23/21 | 13:15 | Canyon de Lampaul | N 47 35.275 | W 007 29.983 | 951 | quelques huitres au sommet |
| 8/23/21 | 13:16 | Canyon de Lampaul | N 47 35.278 | W 007 29.983 | 948 | substrat dur roche calcaire? |
| 8/23/21 | 13:16 | Canyon de Lampaul | N 47 35.279 | W 007 29.985 | 951 | LEiopathes sur les parois verticales du bloc |
| 8/23/21 | 13:17 | Canyon de Lampaul | N 47 35.285 | W 007 29.983 | 952 | huitres sur le bord du bloc/falaise? |
| 8/23/21 | 13:17 | Canyon de Lampaul | N 47 35.287 | W 007 29.982 | 952 | sompmet avec Leiopathes et colonies blanches |
| 8/23/21 | 13:19 | Canyon de Lampaul | N 47 35.289 | W 007 29.980 | 952 | zoom sur CORAIL, semble vivant? espece? |
| 8/23/21 | 13:20 | Canyon de Lampaul | N 47 35.292 | W 007 29.974 | 948 | structure accidentée sur dfalaise |
| 8/23/21 | 13:20 | Canyon de Lampaul | N 47 35.292 | W 007 29.973 | 948 | creux sur la paroi |
| 8/23/21 | 13:21 | Canyon de Lampaul | N 47 35.293 | W 007 29.975 | 948 | quelques huitres, grands Leiopathes |
| 8/23/21 | 13:21 | Canyon de Lampaul | N 47 35.295 | W 007 29.976 | 948 | quelques colonies de CORAIL (APN) |
| 8/23/21 | 13:22 | Canyon de Lampaul | N 47 35.302 | W 007 29.977 | 950 | CORAIL mort sur arrete, au milieu des Leiopathes |
| 8/23/21 | 13:23 | Canyon de Lampaul | N 47 35.304 | W 007 29.976 | 950 | il y a un BATHypathes |
| 8/23/21 | 13:23 | Canyon de Lampaul | N 47 35.305 | W 007 29.975 | 950 | Vue de l'arrete |
| 8/23/21 | 13:23 | Canyon de Lampaul | N 47 35.305 | W 007 29.969 | 950 | deux Bathypathes |
| 8/23/21 | 13:24 | Canyon de Lampaul | N 47 35.305 | W 007 29.965 | 950 | BATHypathes |
| 8/23/21 | 13:27 | Canyon de Lampaul | N 47 35.311 | W 007 29.982 | 948 | nouveau bloc rocheux avec Leiopathes |
| 8/23/21 | 13:27 | Canyon de Lampaul | N 47 35.313 | W 007 29.982 | 948 | CORAIL sur arrete |
| 8/23/21 | 13:27 | Canyon de Lampaul | N 47 35.317 | W 007 29.983 | 948 | Leiopathes |
| 8/23/21 | 13:28 | Canyon de Lampaul | N 47 35.324 | W 007 29.980 | 948 | zones avec huitres |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/23/21 | 13:29 | Canyon de Lampaul | N 47 35.326 | W 007 29.975 | 948 | petits rebord avec CORAIL mort |
| 8/23/21 | 13:30 | Canyon de Lampaul | N 47 35.326 | W 007 29.965 | 948 | CORAIL vivant Lophelia vivant |
| 8/23/21 | 13:31 | Canyon de Lampaul | N 47 35.325 | W 007 29.965 | 950 | zoom sur colonie rouge de ? |
| 8/23/21 | 13:32 | Canyon de Lampaul | N 47 35.323 | W 007 29.961 | 950 | zone de blocs (vue au sonar) |
| 8/23/21 | 13:34 | Canyon de Lampaul | N 47 35.335 | W 007 29.956 | 958 | autre bloc |
| 8/23/21 | 13:34 | Canyon de Lampaul | N 47 35.337 | W 007 29.956 | 958 | Leiopathes sur les deux faces |
| 8/23/21 | 13:35 | Canyon de Lampaul | N 47 35.342 | W 007 29.961 | 957 | quelque colonies de CORAIL vivant au milieu des Leiopathes |
| 8/23/21 | 13:36 | Canyon de Lampaul | N 47 35.348 | W 007 29.961 | 958 | vue du bloc |
| 8/23/21 | 13:37 | Canyon de Lampaul | N 47 35.349 | W 007 29.956 | 959 | CORAIL mort sur rebord du bloc |
| 8/23/21 | 13:38 | Canyon de Lampaul | N 47 35.349 | W 007 29.958 | 960 | zoom sur Lophelia vivant et Leiopathes orange, quelque CORAIL mort (Lophelia) |
| 8/23/21 | 13:39 | Canyon de Lampaul | N 47 35.350 | W 007 29.958 | 964 | travelling vers le bas |
| 8/23/21 | 13:39 | Canyon de Lampaul | N 47 35.350 | W 007 29.959 | 967 | debris dense de CORAIL sur rebord |
| 8/23/21 | 13:41 | Canyon de Lampaul | N 47 35.352 | W 007 29.955 | 971 | on descend toujours le long du bloc |
| 8/23/21 | 13:42 | Canyon de Lampaul | N 47 35.350 | W 007 29.951 | 979 | plus bas sur le bloc, pas de colonie |
| 8/23/21 | 13:44 | Canyon de Lampaul | N 47 35.351 | W 007 29.949 | 977 | Fin de plongee |

6.16. Dive: 213 - 16

Date: **27/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|---|
| 27/08/2021 | 07:00 | Bajjouk Touria, Lartaud Franck, Tourolle Julie, Moreau Bertrand, Bacher Alan, Borremans Catherine |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

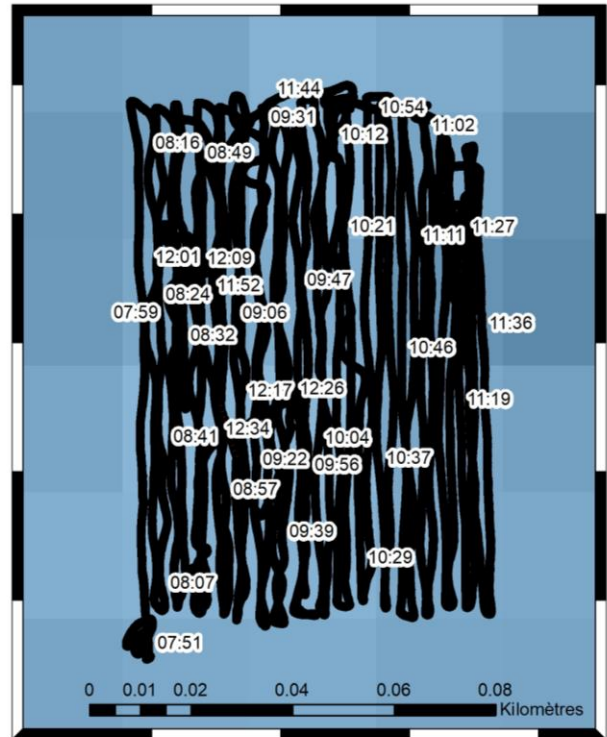
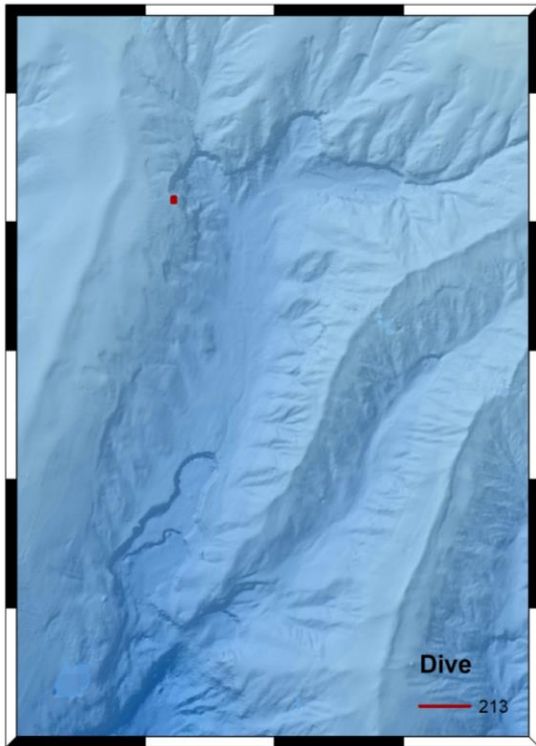
6.16.1. Objectives

Video and image transects at 0.3 m/s and 3 m altitude to build a 3D mosaics of the Madrepora garden where MARLEY shall be deployed. Tube core sampling. Coral sampling.

6.16.2. Work abstract

- 3 Sample operations
- 0 Measures
- 0 Moorings
- 366 Images

6.16.3. Map



6.16.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/27/21 | 06:58 | Canyon de Lampaul | N 47 36.610 | W 007 32.524 | | Debut de descente |
| 8/27/21 | 07:45 | Canyon de Lampaul | N 47 36.655 | W 007 32.300 | 533 | Arrivee sur le fond |
| 8/27/21 | 07:50 | Canyon de Lampaul | N 47 36.660 | W 007 32.276 | 590 | Debut de profil 1. Reglages APN OK. Courant au fond. |
| 8/27/21 | 08:00 | Canyon de Lampaul | N 47 36.670 | W 007 32.228 | 703 | Fin de profil 1 |
| 8/27/21 | 08:01 | Canyon de Lampaul | N 47 36.671 | W 007 32.223 | 714 | Debut de profil 2. Courant. Corail mort. |
| 8/27/21 | 08:03 | Canyon de Lampaul | N 47 36.673 | W 007 32.214 | 736 | SUBSTRAT meuble |
| 8/27/21 | 08:05 | Canyon de Lampaul | N 47 36.675 | W 007 32.204 | 759 | DECHET divers |
| 8/27/21 | 08:07 | Canyon de Lampaul | N 47 36.675 | W 007 32.197 | 776 | Fin de profil 2 |
| 8/27/21 | 08:07 | Canyon de Lampaul | N 47 36.674 | W 007 32.196 | 776 | Debut de profil 3. SUBSTRAT meuble. Courant S-SW |
| 8/27/21 | 08:09 | Canyon de Lampaul | N 47 36.682 | W 007 32.196 | 776 | DECHET verre |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/27/21 | 08:11 | Canyon de Lampaul | N 47 36.695 | W 007 32.196 | 775 | SUBSTRAT MEUBLE |
| 8/27/21 | 08:11 | Canyon de Lampaul | N 47 36.698 | W 007 32.196 | 775 | courant sud sud ouest |
| 8/27/21 | 08:12 | Canyon de Lampaul | N 47 36.701 | W 007 32.196 | 774 | sediments plus grossiers |
| 8/27/21 | 08:12 | Canyon de Lampaul | N 47 36.704 | W 007 32.196 | 774 | CORAIL mort et qq colonies vivantes |
| 8/27/21 | 08:13 | Canyon de Lampaul | N 47 36.707 | W 007 32.196 | 774 | jardin de coraux en approchant falaise |
| 8/27/21 | 08:14 | Canyon de Lampaul | N 47 36.715 | W 007 32.196 | 773 | CORAIL MORT dense |
| 8/27/21 | 08:15 | Canyon de Lampaul | N 47 36.720 | W 007 32.197 | 772 | arrivee rebord falaise CORAIL dense |
| 8/27/21 | 08:15 | Canyon de Lampaul | N 47 36.721 | W 007 32.196 | 772 | fin de profil 3 |
| 8/27/21 | 08:15 | Canyon de Lampaul | N 47 36.719 | W 007 32.194 | 773 | debut de profil 4. CORAIL dense mort et qq colonies vivantes |
| 8/27/21 | 08:17 | Canyon de Lampaul | N 47 36.703 | W 007 32.193 | 767 | probleme altitude on ne voit plus le fond |
| 8/27/21 | 08:18 | Canyon de Lampaul | N 47 36.696 | W 007 32.193 | 763 | on enleve auto altitude |
| 8/27/21 | 08:18 | Canyon de Lampaul | N 47 36.690 | W 007 32.192 | 767 | on essaie de stabiliser l'engin |
| 8/27/21 | 08:19 | Canyon de Lampaul | N 47 36.693 | W 007 32.193 | 771 | on se retourne pour repartir en arriere |
| 8/27/21 | 08:19 | Canyon de Lampaul | N 47 36.696 | W 007 32.194 | 772 | on reprend le profil depuis le depart |
| 8/27/21 | 08:20 | Canyon de Lampaul | N 47 36.705 | W 007 32.193 | 775 | CORAIL jardin de coraux |
| 8/27/21 | 08:20 | Canyon de Lampaul | N 47 36.707 | W 007 32.194 | 774 | demi tour on reprend profil 4 |
| 8/27/21 | 08:21 | Canyon de Lampaul | N 47 36.706 | W 007 32.191 | 775 | re demi tour car parti trop loin |
| 8/27/21 | 08:21 | Canyon de Lampaul | N 47 36.703 | W 007 32.192 | 775 | re demi tour |
| 8/27/21 | 08:22 | Canyon de Lampaul | N 47 36.707 | W 007 32.194 | 774 | CORAIL jardin de coraux |
| 8/27/21 | 08:22 | Canyon de Lampaul | N 47 36.709 | W 007 32.195 | 774 | demi tour |
| 8/27/21 | 08:23 | Canyon de | N 47 | W 007 | 773 | on rejoint profil |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 36.709 | 32.196 | | |
| 8/27/21 | 08:23 | Canyon de Lampaul | N 47 36.707 | W 007 32.195 | 774 | trop de courant |
| 8/27/21 | 08:23 | Canyon de Lampaul | N 47 36.707 | W 007 32.194 | 774 | debut profil 4 difficile de se positionner |
| 8/27/21 | 08:24 | Canyon de Lampaul | N 47 36.703 | W 007 32.192 | 775 | SUBSTRAT meuble |
| 8/27/21 | 08:24 | Canyon de Lampaul | N 47 36.702 | W 007 32.195 | 775 | altitude 3m |
| 8/27/21 | 08:25 | Canyon de Lampaul | N 47 36.700 | W 007 32.194 | 774 | pente 0 degres ? a verifier |
| 8/27/21 | 08:27 | Canyon de Lampaul | N 47 36.681 | W 007 32.194 | 776 | DECHETS divers |
| 8/27/21 | 08:28 | Canyon de Lampaul | N 47 36.673 | W 007 32.194 | 776 | toujours bien sedimente |
| 8/27/21 | 08:28 | Canyon de Lampaul | N 47 36.671 | W 007 32.194 | 777 | fin de profil 4 |
| 8/27/21 | 08:28 | Canyon de Lampaul | N 47 36.671 | W 007 32.193 | 777 | debut de profil 5. altitude 3.3m, vitesse 0.22, courant de face |
| 8/27/21 | 08:29 | Canyon de Lampaul | N 47 36.676 | W 007 32.193 | 776 | CORAIL isole |
| 8/27/21 | 08:30 | Canyon de Lampaul | N 47 36.680 | W 007 32.193 | 776 | SUBSTRAT meuble |
| 8/27/21 | 08:30 | Canyon de Lampaul | N 47 36.682 | W 007 32.193 | 776 | sediments plus grossiers |
| 8/27/21 | 08:32 | Canyon de Lampaul | N 47 36.692 | W 007 32.193 | 775 | courant plus important |
| 8/27/21 | 08:33 | Canyon de Lampaul | N 47 36.698 | W 007 32.193 | 775 | debut jardin de coraux |
| 8/27/21 | 08:33 | Canyon de Lampaul | N 47 36.699 | W 007 32.193 | 775 | CORAIL isole vivant |
| 8/27/21 | 08:33 | Canyon de Lampaul | N 47 36.704 | W 007 32.193 | 775 | CORAIL peu dense mort et vivant |
| 8/27/21 | 08:34 | Canyon de Lampaul | N 47 36.706 | W 007 32.192 | 774 | CORAIL dense mort et vivant |
| 8/27/21 | 08:35 | Canyon de Lampaul | N 47 36.713 | W 007 32.194 | 773 | CORAIL dense mort et vivant |
| 8/27/21 | 08:35 | Canyon de Lampaul | N 47 36.715 | W 007 32.193 | 773 | rebord falaise |
| 8/27/21 | 08:35 | Canyon de Lampaul | N 47 36.719 | W 007 32.193 | 773 | rebord |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/27/21 | 08:36 | Canyon de Lampaul | N 47 36.721 | W 007 32.193 | 773 | CORAIL vivant sur le rebord grosses colonies |
| 8/27/21 | 08:36 | Canyon de Lampaul | N 47 36.721 | W 007 32.194 | 772 | fin de profil 5. demi tour |
| 8/27/21 | 08:36 | Canyon de Lampaul | N 47 36.721 | W 007 32.194 | 772 | on se repositionne |
| 8/27/21 | 08:36 | Canyon de Lampaul | N 47 36.720 | W 007 32.192 | 772 | rebord en visu |
| 8/27/21 | 08:37 | Canyon de Lampaul | N 47 36.719 | W 007 32.190 | 773 | pb positionnement |
| 8/27/21 | 08:37 | Canyon de Lampaul | N 47 36.716 | W 007 32.188 | 773 | CORAIL vivant dense |
| 8/27/21 | 08:37 | Canyon de Lampaul | N 47 36.714 | W 007 32.189 | 773 | on essaie de se repositionner |
| 8/27/21 | 08:37 | Canyon de Lampaul | N 47 36.713 | W 007 32.191 | 773 | debut de profil 6. jardin de coraux |
| 8/27/21 | 08:38 | Canyon de Lampaul | N 47 36.707 | W 007 32.190 | 774 | CORAIL vivant et mort peu dense |
| 8/27/21 | 08:38 | Canyon de Lampaul | N 47 36.705 | W 007 32.191 | 774 | CORAIL isole |
| 8/27/21 | 08:39 | Canyon de Lampaul | N 47 36.703 | W 007 32.191 | 775 | SUBSTRAT meuble. fin du jardin de coraux |
| 8/27/21 | 08:39 | Canyon de Lampaul | N 47 36.699 | W 007 32.191 | 775 | sediment grossiers |
| 8/27/21 | 08:39 | Canyon de Lampaul | N 47 36.698 | W 007 32.190 | 775 | sediments plus fins |
| 8/27/21 | 08:41 | Canyon de Lampaul | N 47 36.681 | W 007 32.190 | 776 | oursin |
| 8/27/21 | 08:41 | Canyon de Lampaul | N 47 36.678 | W 007 32.190 | 776 | CORAIL isole mort et vivant |
| 8/27/21 | 08:42 | Canyon de Lampaul | N 47 36.671 | W 007 32.191 | 777 | fin de profil 6 |
| 8/27/21 | 08:42 | Canyon de Lampaul | N 47 36.669 | W 007 32.191 | 777 | demi tour |
| 8/27/21 | 08:42 | Canyon de Lampaul | N 47 36.671 | W 007 32.189 | 777 | debut de profil 7. sediments |
| 8/27/21 | 08:44 | Canyon de Lampaul | N 47 36.683 | W 007 32.189 | 777 | sediments deviennent plus grossiers |
| 8/27/21 | 08:47 | Canyon de Lampaul | N 47 36.699 | W 007 32.190 | 775 | cailloux |
| 8/27/21 | 08:47 | Canyon de | N 47 | W 007 | 775 | debut jardin de coraux |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 36.701 | 32.190 | | |
| 8/27/21 | 08:47 | Canyon de Lampaul | N 47 36.701 | W 007 32.190 | 775 | CORAIL peu dense mort et vivant |
| 8/27/21 | 08:47 | Canyon de Lampaul | N 47 36.704 | W 007 32.190 | 775 | CORAIL dense mort et vivant |
| 8/27/21 | 08:49 | Canyon de Lampaul | N 47 36.714 | W 007 32.190 | 773 | rebord falaise en vue |
| 8/27/21 | 08:49 | Canyon de Lampaul | N 47 36.716 | W 007 32.190 | 773 | grosse colonies CORAIL vivant |
| 8/27/21 | 08:50 | Canyon de Lampaul | N 47 36.721 | W 007 32.188 | 773 | Fin de profil 7. demi tour |
| 8/27/21 | 08:50 | Canyon de Lampaul | N 47 36.719 | W 007 32.187 | 773 | debut de profil 8 |
| 8/27/21 | 08:52 | Canyon de Lampaul | N 47 36.707 | W 007 32.187 | 775 | CORAIL peu dense |
| 8/27/21 | 08:52 | Canyon de Lampaul | N 47 36.705 | W 007 32.188 | 775 | CORAIL isole |
| 8/27/21 | 08:52 | Canyon de Lampaul | N 47 36.704 | W 007 32.188 | 775 | Fin du jardin de coraux, sediments grossiers |
| 8/27/21 | 08:52 | Canyon de Lampaul | N 47 36.699 | W 007 32.187 | 775 | SUBSTRAT meuble |
| 8/27/21 | 08:53 | Canyon de Lampaul | N 47 36.694 | W 007 32.187 | 776 | immersion 775m |
| 8/27/21 | 08:55 | Canyon de Lampaul | N 47 36.675 | W 007 32.187 | 777 | CORAIL isole |
| 8/27/21 | 08:55 | Canyon de Lampaul | N 47 36.671 | W 007 32.187 | 777 | fin de profil 8 |
| 8/27/21 | 08:55 | Canyon de Lampaul | N 47 36.670 | W 007 32.187 | 777 | demi tour |
| 8/27/21 | 08:56 | Canyon de Lampaul | N 47 36.669 | W 007 32.186 | 777 | CORAIL isole vivant |
| 8/27/21 | 08:56 | Canyon de Lampaul | N 47 36.671 | W 007 32.186 | 777 | debut de profil 9 |
| 8/27/21 | 08:56 | Canyon de Lampaul | N 47 36.674 | W 007 32.185 | 777 | CORAIL isole |
| 8/27/21 | 08:57 | Canyon de Lampaul | N 47 36.677 | W 007 32.186 | 777 | SUBSTRAT MEUBLE |
| 8/27/21 | 08:59 | Canyon de Lampaul | N 47 36.694 | W 007 32.186 | 776 | sediments plus grossiers |
| 8/27/21 | 09:00 | Canyon de Lampaul | N 47 36.698 | W 007 32.186 | 776 | debut du jardin de coraux |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/27/21 | 09:00 | Canyon de Lampaul | N 47 36.700 | W 007 32.187 | 775 | CORAIL peu dense mort et vivant |
| 8/27/21 | 09:00 | Canyon de Lampaul | N 47 36.703 | W 007 32.187 | 775 | CORAIL dense mort et vivant |
| 8/27/21 | 09:01 | Canyon de Lampaul | N 47 36.710 | W 007 32.187 | 774 | rebord en vue |
| 8/27/21 | 09:02 | Canyon de Lampaul | N 47 36.715 | W 007 32.187 | 774 | CORAIL dense vivant sur rebord |
| 8/27/21 | 09:03 | Canyon de Lampaul | N 47 36.718 | W 007 32.187 | 774 | fin de profil 9 |
| 8/27/21 | 09:03 | Canyon de Lampaul | N 47 36.721 | W 007 32.187 | 774 | demi tour |
| 8/27/21 | 09:03 | Canyon de Lampaul | N 47 36.719 | W 007 32.184 | 774 | debut de profil 10 |
| 8/27/21 | 09:04 | Canyon de Lampaul | N 47 36.715 | W 007 32.184 | 774 | CORAIL dense mort et vivant, jardin de coraux |
| 8/27/21 | 09:05 | Canyon de Lampaul | N 47 36.709 | W 007 32.185 | 774 | CORAIL peu dense mort et vivant |
| 8/27/21 | 09:05 | Canyon de Lampaul | N 47 36.704 | W 007 32.184 | 775 | fin du jardin de coraux |
| 8/27/21 | 09:05 | Canyon de Lampaul | N 47 36.702 | W 007 32.184 | 775 | CORAIL isole mort |
| 8/27/21 | 09:05 | Canyon de Lampaul | N 47 36.700 | W 007 32.185 | 775 | SUBSTRAT meuble |
| 8/27/21 | 09:08 | Canyon de Lampaul | N 47 36.681 | W 007 32.184 | 777 | CORAIL mort |
| 8/27/21 | 09:08 | Canyon de Lampaul | N 47 36.678 | W 007 32.184 | 776 | qq colonies vivantes |
| 8/27/21 | 09:08 | Canyon de Lampaul | N 47 36.675 | W 007 32.184 | 777 | CORAIL isole vivant |
| 8/27/21 | 09:09 | Canyon de Lampaul | N 47 36.671 | W 007 32.184 | 777 | fin de profil 10 |
| 8/27/21 | 09:09 | Canyon de Lampaul | N 47 36.670 | W 007 32.184 | 777 | demi tour |
| 8/27/21 | 09:10 | Canyon de Lampaul | N 47 36.671 | W 007 32.183 | 777 | debut de profil 11 |
| 8/27/21 | 09:10 | Canyon de Lampaul | N 47 36.672 | W 007 32.183 | 777 | CORAIL isole vivant |
| 8/27/21 | 09:11 | Canyon de Lampaul | N 47 36.680 | W 007 32.183 | 777 | SUBSTRAT meuble qq coraux morts |
| 8/27/21 | 09:13 | Canyon de | N 47 | W 007 | 776 | Sediments plus grossiers |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 36.694 | 32.183 | | |
| 8/27/21 | 09:13 | Canyon de Lampaul | N 47 36.697 | W 007 32.184 | 776 | CORAIL peu dense mort et vivant, debut du jardin de coraux |
| 8/27/21 | 09:14 | Canyon de Lampaul | N 47 36.704 | W 007 32.184 | 775 | CORAIL dense mort et vivant |
| 8/27/21 | 09:15 | Canyon de Lampaul | N 47 36.710 | W 007 32.184 | 774 | rebord en vue |
| 8/27/21 | 09:15 | Canyon de Lampaul | N 47 36.714 | W 007 32.184 | 774 | falaise CORAIL vivant grosses colonies |
| 8/27/21 | 09:16 | Canyon de Lampaul | N 47 36.719 | W 007 32.183 | 774 | fin de profil 11 |
| 8/27/21 | 09:16 | Canyon de Lampaul | N 47 36.721 | W 007 32.183 | 774 | demi tour |
| 8/27/21 | 09:17 | Canyon de Lampaul | N 47 36.722 | W 007 32.184 | 774 | on se repositionne |
| 8/27/21 | 09:17 | Canyon de Lampaul | N 47 36.718 | W 007 32.181 | 774 | debut de profil 12 |
| 8/27/21 | 09:18 | Canyon de Lampaul | N 47 36.716 | W 007 32.181 | 774 | CORAIL dense mort et vivant |
| 8/27/21 | 09:20 | Canyon de Lampaul | N 47 36.706 | W 007 32.182 | 775 | CORAIL peu dense mort et vivant |
| 8/27/21 | 09:20 | Canyon de Lampaul | N 47 36.703 | W 007 32.181 | 775 | fin du jardin de coraux |
| 8/27/21 | 09:20 | Canyon de Lampaul | N 47 36.701 | W 007 32.181 | 776 | SUBSTRAT meuble grossier |
| 8/27/21 | 09:21 | Canyon de Lampaul | N 47 36.695 | W 007 32.181 | 776 | sediments plus fins |
| 8/27/21 | 09:22 | Canyon de Lampaul | N 47 36.682 | W 007 32.182 | 777 | CORAIL isole mort et qq colonies vivantes |
| 8/27/21 | 09:23 | Canyon de Lampaul | N 47 36.676 | W 007 32.181 | 777 | CORAIL vivant isole |
| 8/27/21 | 09:24 | Canyon de Lampaul | N 47 36.670 | W 007 32.181 | 777 | fin de profil 12 |
| 8/27/21 | 09:24 | Canyon de Lampaul | N 47 36.669 | W 007 32.181 | 777 | demi tour |
| 8/27/21 | 09:25 | Canyon de Lampaul | N 47 36.670 | W 007 32.181 | 777 | CORAIL isole vivant |
| 8/27/21 | 09:25 | Canyon de Lampaul | N 47 36.671 | W 007 32.181 | 777 | debut de profil 13 |
| 8/27/21 | 09:26 | Canyon de Lampaul | N 47 36.677 | W 007 32.179 | 777 | CORAIL peu dense mort et vivant |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/27/21 | 09:27 | Canyon de Lampaul | N 47 36.685 | W 007 32.180 | 777 | SUBSTRAT meuble |
| 8/27/21 | 09:28 | Canyon de Lampaul | N 47 36.694 | W 007 32.181 | 776 | sediments plus grossiers |
| 8/27/21 | 09:28 | Canyon de Lampaul | N 47 36.696 | W 007 32.180 | 776 | CORAIL isole mort et vivant |
| 8/27/21 | 09:28 | Canyon de Lampaul | N 47 36.699 | W 007 32.180 | 776 | debut du jardin de coraux |
| 8/27/21 | 09:29 | Canyon de Lampaul | N 47 36.701 | W 007 32.181 | 775 | CORAIL dense mort et vivant |
| 8/27/21 | 09:30 | Canyon de Lampaul | N 47 36.711 | W 007 32.180 | 775 | rebord falaise en vue |
| 8/27/21 | 09:30 | Canyon de Lampaul | N 47 36.714 | W 007 32.180 | 774 | rebord falaise grosses colonies vivantes |
| 8/27/21 | 09:30 | Canyon de Lampaul | N 47 36.718 | W 007 32.180 | 774 | fin de profil 13 |
| 8/27/21 | 09:31 | Canyon de Lampaul | N 47 36.721 | W 007 32.180 | 774 | demi tour |
| 8/27/21 | 09:31 | Canyon de Lampaul | N 47 36.720 | W 007 32.178 | 774 | debut de profil 14 |
| 8/27/21 | 09:32 | Canyon de Lampaul | N 47 36.714 | W 007 32.178 | 774 | jardin de coraux CORAIL dense mort et vivant |
| 8/27/21 | 09:33 | Canyon de Lampaul | N 47 36.703 | W 007 32.179 | 775 | CORAIL peu dense |
| 8/27/21 | 09:34 | Canyon de Lampaul | N 47 36.702 | W 007 32.179 | 776 | fin de jardin de coraux |
| 8/27/21 | 09:34 | Canyon de Lampaul | N 47 36.699 | W 007 32.178 | 776 | SUBSTRAT meuble |
| 8/27/21 | 09:36 | Canyon de Lampaul | N 47 36.684 | W 007 32.178 | 777 | CORAIL isole |
| 8/27/21 | 09:36 | Canyon de Lampaul | N 47 36.682 | W 007 32.177 | 777 | CORAIL peu dense mort et vivant |
| 8/27/21 | 09:37 | Canyon de Lampaul | N 47 36.675 | W 007 32.179 | 777 | qq colonies vivantes |
| 8/27/21 | 09:37 | Canyon de Lampaul | N 47 36.671 | W 007 32.178 | 777 | fin de profil 14 |
| 8/27/21 | 09:37 | Canyon de Lampaul | N 47 36.670 | W 007 32.178 | 777 | demi tour |
| 8/27/21 | 09:38 | Canyon de Lampaul | N 47 36.668 | W 007 32.177 | 777 | debut de profil 15 |
| 8/27/21 | 09:39 | Canyon de | N 47 | W 007 | 777 | CORAIL peu dense mort et vivant |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 36.673 | 32.178 | | |
| 8/27/21 | 09:39 | Canyon de Lampaul | N 47 36.678 | W 007 32.177 | 777 | SUBSTRAT meuble |
| 8/27/21 | 09:41 | Canyon de Lampaul | N 47 36.692 | W 007 32.177 | 777 | sediments plus grossiers |
| 8/27/21 | 09:41 | Canyon de Lampaul | N 47 36.696 | W 007 32.177 | 776 | CORAIL peu dense mort et vivant |
| 8/27/21 | 09:42 | Canyon de Lampaul | N 47 36.699 | W 007 32.178 | 776 | debut jardin de coraux |
| 8/27/21 | 09:42 | Canyon de Lampaul | N 47 36.701 | W 007 32.178 | 776 | CORAIL dense mort et vivant |
| 8/27/21 | 09:43 | Canyon de Lampaul | N 47 36.709 | W 007 32.177 | 775 | rebord falaise en vue |
| 8/27/21 | 09:43 | Canyon de Lampaul | N 47 36.713 | W 007 32.177 | 775 | rebord et fin de profil. grosses colonies |
| 8/27/21 | 09:44 | Canyon de Lampaul | N 47 36.718 | W 007 32.177 | 775 | fin de profil 15. demi tour |
| 8/27/21 | 09:45 | Canyon de Lampaul | N 47 36.719 | W 007 32.175 | 775 | debut de profil 16 |
| 8/27/21 | 09:45 | Canyon de Lampaul | N 47 36.716 | W 007 32.175 | 775 | CORAIL dense mort et vivant |
| 8/27/21 | 09:47 | Canyon de Lampaul | N 47 36.706 | W 007 32.175 | 775 | CORAIL peu dense |
| 8/27/21 | 09:47 | Canyon de Lampaul | N 47 36.702 | W 007 32.175 | 776 | fin du jardin de coraux |
| 8/27/21 | 09:47 | Canyon de Lampaul | N 47 36.700 | W 007 32.175 | 776 | SUBSTRAT meuble |
| 8/27/21 | 09:49 | Canyon de Lampaul | N 47 36.684 | W 007 32.174 | 778 | CORAIL peu dense mort et vivant |
| 8/27/21 | 09:50 | Canyon de Lampaul | N 47 36.682 | W 007 32.175 | 777 | DECHET bouteille verre |
| 8/27/21 | 09:50 | Canyon de Lampaul | N 47 36.679 | W 007 32.175 | 777 | CORAIL isole mort et vivant |
| 8/27/21 | 09:51 | Canyon de Lampaul | N 47 36.671 | W 007 32.175 | 778 | CORAIL peu dense mort et vivant |
| 8/27/21 | 09:51 | Canyon de Lampaul | N 47 36.670 | W 007 32.175 | 777 | fin de profil 16 |
| 8/27/21 | 09:51 | Canyon de Lampaul | N 47 36.669 | W 007 32.176 | 777 | demi tour |
| 8/27/21 | 09:53 | Canyon de Lampaul | N 47 36.671 | W 007 32.174 | 777 | debut de profil 17 |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/27/21 | 09:54 | Canyon de Lampaul | N 47 36.676 | W 007 32.174 | 777 | CORAIL peu dense mort et vivant |
| 8/27/21 | 09:55 | Canyon de Lampaul | N 47 36.681 | W 007 32.174 | 777 | DECHET verre |
| 8/27/21 | 09:55 | Canyon de Lampaul | N 47 36.682 | W 007 32.174 | 777 | SUBSTRAT meuble |
| 8/27/21 | 09:56 | Canyon de Lampaul | N 47 36.688 | W 007 32.174 | 777 | rebord en vue |
| 8/27/21 | 09:56 | Canyon de Lampaul | N 47 36.693 | W 007 32.173 | 777 | qq colonies vivants isolees |
| 8/27/21 | 09:57 | Canyon de Lampaul | N 47 36.697 | W 007 32.174 | 777 | on longe la marche |
| 8/27/21 | 09:57 | Canyon de Lampaul | N 47 36.699 | W 007 32.174 | 777 | jardin de coraux |
| 8/27/21 | 09:57 | Canyon de Lampaul | N 47 36.700 | W 007 32.174 | 776 | CORAIL dense mort et vivant |
| 8/27/21 | 09:58 | Canyon de Lampaul | N 47 36.712 | W 007 32.174 | 775 | rebord falaise |
| 8/27/21 | 09:58 | Canyon de Lampaul | N 47 36.718 | W 007 32.174 | 775 | fin de profil 17 |
| 8/27/21 | 09:59 | Canyon de Lampaul | N 47 36.720 | W 007 32.175 | 778 | demi tour |
| 8/27/21 | 09:59 | Canyon de Lampaul | N 47 36.721 | W 007 32.173 | 777 | debut de profil 18 |
| 8/27/21 | 10:00 | Canyon de Lampaul | N 47 36.719 | W 007 32.172 | 777 | CORAIL dense |
| 8/27/21 | 10:00 | Canyon de Lampaul | N 47 36.718 | W 007 32.172 | 777 | marche en vue |
| 8/27/21 | 10:01 | Canyon de Lampaul | N 47 36.712 | W 007 32.172 | 775 | CORAIL dense mort et vivant |
| 8/27/21 | 10:01 | Canyon de Lampaul | N 47 36.710 | W 007 32.172 | 776 | on longe toujours la marche. SUBSTRAT meuble sur le dessus |
| 8/27/21 | 10:04 | Canyon de Lampaul | N 47 36.686 | W 007 32.172 | 778 | chnagement quart Julie et Bertrand |
| 8/27/21 | 10:04 | Canyon de Lampaul | N 47 36.683 | W 007 32.172 | 778 | CORAIL dense mort et vivant |
| 8/27/21 | 10:05 | Canyon de Lampaul | N 47 36.675 | W 007 32.172 | 777 | CORAIL peu dense |
| 8/27/21 | 10:06 | Canyon de Lampaul | N 47 36.669 | W 007 32.172 | 778 | fin de profil 18 |
| 8/27/21 | 10:06 | Canyon de | N 47 | W 007 | 778 | demi tour |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 36.669 | 32.171 | | |
| 8/27/21 | 10:06 | Canyon de Lampaul | N 47 36.671 | W 007 32.171 | 778 | debut de profil 19 |
| 8/27/21 | 10:07 | Canyon de Lampaul | N 47 36.682 | W 007 32.170 | 778 | SUBSTRAT meuble |
| 8/27/21 | 10:08 | Canyon de Lampaul | N 47 36.692 | W 007 32.171 | 778 | marche sur la droite |
| 8/27/21 | 10:08 | Canyon de Lampaul | N 47 36.694 | W 007 32.172 | 778 | CORAIL peu dense sur le dessus |
| 8/27/21 | 10:08 | Canyon de Lampaul | N 47 36.696 | W 007 32.172 | 778 | CORAIL dense mort et vivant |
| 8/27/21 | 10:08 | Canyon de Lampaul | N 47 36.701 | W 007 32.171 | 777 | en bas de la marche. CORAIL dense mort et vivant |
| 8/27/21 | 10:09 | Canyon de Lampaul | N 47 36.708 | W 007 32.171 | 777 | rebord de la marche |
| 8/27/21 | 10:10 | Canyon de Lampaul | N 47 36.714 | W 007 32.171 | 775 | CORAIL dense sur rebord falaise |
| 8/27/21 | 10:11 | Canyon de Lampaul | N 47 36.719 | W 007 32.170 | 779 | falaise grosses colonies |
| 8/27/21 | 10:11 | Canyon de Lampaul | N 47 36.720 | W 007 32.170 | 780 | fin de profil 19 |
| 8/27/21 | 10:11 | Canyon de Lampaul | N 47 36.721 | W 007 32.170 | 780 | demi tour |
| 8/27/21 | 10:12 | Canyon de Lampaul | N 47 36.720 | W 007 32.169 | 780 | debut de profil 20 |
| 8/27/21 | 10:12 | Canyon de Lampaul | N 47 36.719 | W 007 32.170 | 779 | CORAIL dense |
| 8/27/21 | 10:13 | Canyon de Lampaul | N 47 36.716 | W 007 32.170 | 768 | on est juste sur la marche |
| 8/27/21 | 10:14 | Canyon de Lampaul | N 47 36.711 | W 007 32.168 | 775 | CORAIL dense mort et vivant |
| 8/27/21 | 10:14 | Canyon de Lampaul | N 47 36.706 | W 007 32.170 | 776 | CORAIL dense mort sur le haut et bas de la marche |
| 8/27/21 | 10:15 | Canyon de Lampaul | N 47 36.696 | W 007 32.169 | 777 | SUBSTRAT meuble sur haut de marche |
| 8/27/21 | 10:16 | Canyon de Lampaul | N 47 36.690 | W 007 32.169 | 778 | qq colonies isolees |
| 8/27/21 | 10:16 | Canyon de Lampaul | N 47 36.685 | W 007 32.168 | 778 | CORAIL dense mort et vivant sur haut de marche |
| 8/27/21 | 10:17 | Canyon de Lampaul | N 47 36.677 | W 007 32.169 | 777 | CORAIL isole |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/27/21 | 10:17 | Canyon de Lampaul | N 47 36.676 | W 007 32.169 | 777 | SUBSTRAT meuble |
| 8/27/21 | 10:17 | Canyon de Lampaul | N 47 36.671 | W 007 32.169 | 778 | fin de profil 20 |
| 8/27/21 | 10:17 | Canyon de Lampaul | N 47 36.670 | W 007 32.169 | 778 | demi tour |
| 8/27/21 | 10:18 | Canyon de Lampaul | N 47 36.669 | W 007 32.169 | 778 | DECHET plastique |
| 8/27/21 | 10:18 | Canyon de Lampaul | N 47 36.672 | W 007 32.168 | 778 | debut de profil 21 |
| 8/27/21 | 10:18 | Canyon de Lampaul | N 47 36.674 | W 007 32.168 | 778 | CORAIL dense |
| 8/27/21 | 10:19 | Canyon de Lampaul | N 47 36.681 | W 007 32.168 | 778 | marche avec juste quelques colonies isolees |
| 8/27/21 | 10:19 | Canyon de Lampaul | N 47 36.688 | W 007 32.167 | 778 | rebord marche non colonise |
| 8/27/21 | 10:20 | Canyon de Lampaul | N 47 36.695 | W 007 32.167 | 778 | DECHET |
| 8/27/21 | 10:20 | Canyon de Lampaul | N 47 36.696 | W 007 32.167 | 778 | CORAIL mort dense bas de marche |
| 8/27/21 | 10:21 | Canyon de Lampaul | N 47 36.707 | W 007 32.168 | 777 | passage sedimentaire dans la marche |
| 8/27/21 | 10:21 | Canyon de Lampaul | N 47 36.710 | W 007 32.168 | 777 | CORAIL dense |
| 8/27/21 | 10:21 | Canyon de Lampaul | N 47 36.717 | W 007 32.167 | 777 | on arrive sur la falaise |
| 8/27/21 | 10:21 | Canyon de Lampaul | N 47 36.720 | W 007 32.168 | 780 | fin de profil 21 |
| 8/27/21 | 10:22 | Canyon de Lampaul | N 47 36.721 | W 007 32.168 | 782 | demi tour, debut de profil 22 |
| 8/27/21 | 10:22 | Canyon de Lampaul | N 47 36.722 | W 007 32.167 | 792 | mur d'huitres |
| 8/27/21 | 10:22 | Canyon de Lampaul | N 47 36.722 | W 007 32.169 | 792 | Grosse colonie corail |
| 8/27/21 | 10:23 | Canyon de Lampaul | N 47 36.722 | W 007 32.171 | 786 | Grosses colonies corail sur la falaise |
| 8/27/21 | 10:23 | Canyon de Lampaul | N 47 36.721 | W 007 32.168 | 783 | on se repositionne |
| 8/27/21 | 10:25 | Canyon de Lampaul | N 47 36.714 | W 007 32.169 | 774 | on est sur la marche ou on est deja passe |
| 8/27/21 | 10:26 | Canyon de | N 47 | W 007 | 778 | fin de profil 22 |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 36.694 | 32.166 | | |
| 8/27/21 | 10:26 | Canyon de Lampaul | N 47 36.694 | W 007 32.166 | 778 | debut profil 23 (on a rate le debut) |
| 8/27/21 | 10:27 | Canyon de Lampaul | N 47 36.691 | W 007 32.165 | 778 | marche avec colonies isolees |
| 8/27/21 | 10:28 | Canyon de Lampaul | N 47 36.684 | W 007 32.166 | 779 | on suit toujours la marche. CORAIL dense mort et vivant sur le dessus |
| 8/27/21 | 10:28 | Canyon de Lampaul | N 47 36.679 | W 007 32.166 | 778 | substrat meuble avec corail mort |
| 8/27/21 | 10:29 | Canyon de Lampaul | N 47 36.675 | W 007 32.165 | 778 | sediments ++ |
| 8/27/21 | 10:29 | Canyon de Lampaul | N 47 36.670 | W 007 32.165 | 780 | fin de profil 23 |
| 8/27/21 | 10:30 | Canyon de Lampaul | N 47 36.671 | W 007 32.165 | 780 | debut de profil 24 |
| 8/27/21 | 10:30 | Canyon de Lampaul | N 47 36.675 | W 007 32.164 | 778 | marche avec CORAIL |
| 8/27/21 | 10:31 | Canyon de Lampaul | N 47 36.684 | W 007 32.164 | 779 | rebord marche quelques colonies isolees vivantes |
| 8/27/21 | 10:31 | Canyon de Lampaul | N 47 36.693 | W 007 32.164 | 779 | DECHET plastique |
| 8/27/21 | 10:32 | Canyon de Lampaul | N 47 36.696 | W 007 32.164 | 779 | CORAIL dense mort et vivant |
| 8/27/21 | 10:32 | Canyon de Lampaul | N 47 36.703 | W 007 32.165 | 779 | CORAIL dense mort |
| 8/27/21 | 10:33 | Canyon de Lampaul | N 47 36.712 | W 007 32.164 | 779 | rebord falaise |
| 8/27/21 | 10:33 | Canyon de Lampaul | N 47 36.718 | W 007 32.164 | 779 | grosses colonies sur rebord |
| 8/27/21 | 10:34 | Canyon de Lampaul | N 47 36.719 | W 007 32.164 | 779 | fin de profil 24 |
| 8/27/21 | 10:34 | Canyon de Lampaul | N 47 36.720 | W 007 32.164 | 779 | demi tour |
| 8/27/21 | 10:35 | Canyon de Lampaul | N 47 36.721 | W 007 32.163 | 779 | debut de profil 25 |
| 8/27/21 | 10:35 | Canyon de Lampaul | N 47 36.715 | W 007 32.163 | 778 | CORAIL dense mort et qq colonies vivantes |
| 8/27/21 | 10:36 | Canyon de Lampaul | N 47 36.701 | W 007 32.162 | 781 | CORAIL peu dense |
| 8/27/21 | 10:36 | Canyon de Lampaul | N 47 36.698 | W 007 32.162 | 781 | Sediments meubles en pied de marche |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/27/21 | 10:37 | Canyon de Lampaul | N 47 36.690 | W 007 32.163 | 780 | marche |
| 8/27/21 | 10:37 | Canyon de Lampaul | N 47 36.682 | W 007 32.162 | 780 | CORAIL mort en pied de marche |
| 8/27/21 | 10:38 | Canyon de Lampaul | N 47 36.674 | W 007 32.162 | 778 | fin de marche sediments meubles |
| 8/27/21 | 10:38 | Canyon de Lampaul | N 47 36.671 | W 007 32.162 | 781 | fin de profil 25 |
| 8/27/21 | 10:38 | Canyon de Lampaul | N 47 36.670 | W 007 32.162 | 781 | demi tour |
| 8/27/21 | 10:39 | Canyon de Lampaul | N 47 36.671 | W 007 32.162 | 781 | debut profil 26 |
| 8/27/21 | 10:39 | Canyon de Lampaul | N 47 36.676 | W 007 32.161 | 780 | CORAIL mort dense qq colonies vivantes |
| 8/27/21 | 10:39 | Canyon de Lampaul | N 47 36.681 | W 007 32.161 | 782 | petite zone sediments meubles |
| 8/27/21 | 10:40 | Canyon de Lampaul | N 47 36.683 | W 007 32.161 | 783 | CORAIL peu dense mort et vivant |
| 8/27/21 | 10:40 | Canyon de Lampaul | N 47 36.687 | W 007 32.161 | 781 | sediments meubles |
| 8/27/21 | 10:40 | Canyon de Lampaul | N 47 36.693 | W 007 32.161 | 782 | CORAIL dense |
| 8/27/21 | 10:41 | Canyon de Lampaul | N 47 36.702 | W 007 32.161 | 781 | rebord falaise en vue |
| 8/27/21 | 10:42 | Canyon de Lampaul | N 47 36.714 | W 007 32.161 | 781 | grosses colonies sur rebord de falaise |
| 8/27/21 | 10:42 | Canyon de Lampaul | N 47 36.716 | W 007 32.161 | 781 | fin de profil 26 |
| 8/27/21 | 10:43 | Canyon de Lampaul | N 47 36.720 | W 007 32.161 | 780 | demi tour |
| 8/27/21 | 10:43 | Canyon de Lampaul | N 47 36.721 | W 007 32.160 | 780 | debut de profil 27 |
| 8/27/21 | 10:44 | Canyon de Lampaul | N 47 36.719 | W 007 32.159 | 780 | jardin de coraux |
| 8/27/21 | 10:44 | Canyon de Lampaul | N 47 36.710 | W 007 32.159 | 780 | CORAIL dense mort et vivant |
| 8/27/21 | 10:45 | Canyon de Lampaul | N 47 36.701 | W 007 32.159 | 781 | zone moins dense |
| 8/27/21 | 10:45 | Canyon de Lampaul | N 47 36.699 | W 007 32.159 | 782 | SUBSTRAT meuble |
| 8/27/21 | 10:46 | Canyon de | N 47 | W 007 | 784 | CORAIL dense |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---------------------------------|
| | | Lampaul | 36.684 | 32.158 | | |
| 8/27/21 | 10:47 | Canyon de Lampaul | N 47 36.678 | W 007 32.159 | 782 | sediments meubles |
| 8/27/21 | 10:47 | Canyon de Lampaul | N 47 36.671 | W 007 32.159 | 782 | fin de profil 27 |
| 8/27/21 | 10:47 | Canyon de Lampaul | N 47 36.668 | W 007 32.158 | 782 | demi tour |
| 8/27/21 | 10:48 | Canyon de Lampaul | N 47 36.671 | W 007 32.158 | 782 | debut de profil 28 |
| 8/27/21 | 10:49 | Canyon de Lampaul | N 47 36.677 | W 007 32.158 | 783 | CORAIL dense mort et vivant |
| 8/27/21 | 10:49 | Canyon de Lampaul | N 47 36.681 | W 007 32.158 | 784 | SUBSTRAT meuble |
| 8/27/21 | 10:50 | Canyon de Lampaul | N 47 36.686 | W 007 32.159 | 782 | CORAIL moins dense |
| 8/27/21 | 10:50 | Canyon de Lampaul | N 47 36.690 | W 007 32.158 | 783 | sediment grossier |
| 8/27/21 | 10:51 | Canyon de Lampaul | N 47 36.699 | W 007 32.157 | 782 | altitude 65m, bord falaise |
| 8/27/21 | 10:51 | Canyon de Lampaul | N 47 36.705 | W 007 32.157 | 781 | CORAIL mort et vivant |
| 8/27/21 | 10:52 | Canyon de Lampaul | N 47 36.711 | W 007 32.158 | 781 | rebord falaise |
| 8/27/21 | 10:53 | Canyon de Lampaul | N 47 36.719 | W 007 32.159 | 781 | fin de profil 28 |
| 8/27/21 | 10:54 | Canyon de Lampaul | N 47 36.720 | W 007 32.157 | 785 | debut de profil 29 |
| 8/27/21 | 10:54 | Canyon de Lampaul | N 47 36.714 | W 007 32.155 | 782 | jardin de coraux mort et vivant |
| 8/27/21 | 10:56 | Canyon de Lampaul | N 47 36.699 | W 007 32.156 | 783 | fin jardin de coraux |
| 8/27/21 | 10:57 | Canyon de Lampaul | N 47 36.683 | W 007 32.156 | 785 | CORAIL dense |
| 8/27/21 | 10:58 | Canyon de Lampaul | N 47 36.669 | W 007 32.156 | 783 | fin de profil 29 |
| 8/27/21 | 10:58 | Canyon de Lampaul | N 47 36.671 | W 007 32.155 | 783 | debut de profil 30 |
| 8/27/21 | 10:59 | Canyon de Lampaul | N 47 36.675 | W 007 32.154 | 783 | CORAIL mort et vivant |
| 8/27/21 | 11:00 | Canyon de Lampaul | N 47 36.691 | W 007 32.154 | 784 | CORAIL dense mort et vivant |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/27/21 | 11:01 | Canyon de Lampaul | N 47 36.709 | W 007 32.154 | 783 | bord de falaise |
| 8/27/21 | 11:02 | Canyon de Lampaul | N 47 36.716 | W 007 32.155 | 783 | fin de profil 30 |
| 8/27/21 | 11:03 | Canyon de Lampaul | N 47 36.719 | W 007 32.152 | 785 | debut de profil 31 |
| 8/27/21 | 11:03 | Canyon de Lampaul | N 47 36.714 | W 007 32.153 | 784 | CORAIL dense mort et vivant |
| 8/27/21 | 11:04 | Canyon de Lampaul | N 47 36.703 | W 007 32.152 | 784 | altitude 65m plus de relief |
| 8/27/21 | 11:05 | Canyon de Lampaul | N 47 36.696 | W 007 32.153 | 784 | CORAIL |
| 8/27/21 | 11:06 | Canyon de Lampaul | N 47 36.687 | W 007 32.154 | 784 | SUBSTRAT dur ? |
| 8/27/21 | 11:06 | Canyon de Lampaul | N 47 36.682 | W 007 32.153 | 785 | CORAIL dense mort et vivant |
| 8/27/21 | 11:07 | Canyon de Lampaul | N 47 36.670 | W 007 32.152 | 784 | fin de profil 31 |
| 8/27/21 | 11:07 | Canyon de Lampaul | N 47 36.671 | W 007 32.152 | 784 | Debut de profil 32 |
| 8/27/21 | 11:08 | Canyon de Lampaul | N 47 36.676 | W 007 32.151 | 785 | CORAIL mort et vivant |
| 8/27/21 | 11:08 | Canyon de Lampaul | N 47 36.680 | W 007 32.151 | 785 | pas de corail, SUBSTRAT dur ? |
| 8/27/21 | 11:08 | Canyon de Lampaul | N 47 36.683 | W 007 32.152 | 785 | CORAIL dense à nouveau, mort et vivant |
| 8/27/21 | 11:10 | Canyon de Lampaul | N 47 36.702 | W 007 32.151 | 785 | fin du jardin, rebord falaise |
| 8/27/21 | 11:11 | Canyon de Lampaul | N 47 36.709 | W 007 32.152 | 784 | fin de profil 32 |
| 8/27/21 | 11:12 | Canyon de Lampaul | N 47 36.717 | W 007 32.153 | 785 | Debut de profil 33 |
| 8/27/21 | 11:13 | Canyon de Lampaul | N 47 36.710 | W 007 32.152 | 784 | CORAIL dense mort et vivant |
| 8/27/21 | 11:16 | Canyon de Lampaul | N 47 36.697 | W 007 32.149 | 786 | on fait demi tour, on était sur le mauvais profil |
| 8/27/21 | 11:17 | Canyon de Lampaul | N 47 36.710 | W 007 32.150 | 783 | debut profil 33 |
| 8/27/21 | 11:17 | Canyon de Lampaul | N 47 36.705 | W 007 32.151 | 785 | corail dense mort et vivant |
| 8/27/21 | 11:19 | Canyon de | N 47 | W 007 | 784 | fin corail. SUBSTRAT: vase indurée ? |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 36.687 | 32.150 | | |
| 8/27/21 | 11:20 | Canyon de Lampaul | N 47 36.677 | W 007 32.149 | 785 | CORAIL mort et vivant |
| 8/27/21 | 11:21 | Canyon de Lampaul | N 47 36.669 | W 007 32.149 | 784 | fin de profil 33 |
| 8/27/21 | 11:21 | Canyon de Lampaul | N 47 36.671 | W 007 32.148 | 785 | debut de profil 34 |
| 8/27/21 | 11:22 | Canyon de Lampaul | N 47 36.676 | W 007 32.148 | 785 | CORAIL moins dense |
| 8/27/21 | 11:22 | Canyon de Lampaul | N 47 36.685 | W 007 32.148 | 785 | CORAIL mort et vivant |
| 8/27/21 | 11:23 | Canyon de Lampaul | N 47 36.690 | W 007 32.148 | 785 | DECHET bouteille |
| 8/27/21 | 11:24 | Canyon de Lampaul | N 47 36.700 | W 007 32.149 | 785 | rebord falaise, fin jardin de corail |
| 8/27/21 | 11:25 | Canyon de Lampaul | N 47 36.713 | W 007 32.149 | 783 | fin de profil 34 |
| 8/27/21 | 11:25 | Canyon de Lampaul | N 47 36.716 | W 007 32.148 | 783 | Debut de profil 35 |
| 8/27/21 | 11:26 | Canyon de Lampaul | N 47 36.705 | W 007 32.149 | 784 | CORAIL dense mort et vivant |
| 8/27/21 | 11:27 | Canyon de Lampaul | N 47 36.702 | W 007 32.150 | 784 | demi tour pour recuperer le bon profil |
| 8/27/21 | 11:28 | Canyon de Lampaul | N 47 36.712 | W 007 32.147 | 784 | Debut de profil 35 |
| 8/27/21 | 11:29 | Canyon de Lampaul | N 47 36.699 | W 007 32.149 | 784 | CORAIL dense mort et vivant |
| 8/27/21 | 11:30 | Canyon de Lampaul | N 47 36.692 | W 007 32.149 | 786 | DECHET bouteilles |
| 8/27/21 | 11:31 | Canyon de Lampaul | N 47 36.686 | W 007 32.149 | 785 | fin corail. SUBSTRAT induré |
| 8/27/21 | 11:32 | Canyon de Lampaul | N 47 36.681 | W 007 32.148 | 785 | CORAIL mort et vivant |
| 8/27/21 | 11:33 | Canyon de Lampaul | N 47 36.669 | W 007 32.146 | 785 | fin de profil 35 |
| 8/27/21 | 11:33 | Canyon de Lampaul | N 47 36.670 | W 007 32.146 | 786 | Debut de profil 36 |
| 8/27/21 | 11:34 | Canyon de Lampaul | N 47 36.674 | W 007 32.146 | 786 | CORAIL mort et vivant |
| 8/27/21 | 11:34 | Canyon de Lampaul | N 47 36.677 | W 007 32.146 | 786 | fin jardin de corail |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/27/21 | 11:34 | Canyon de Lampaul | N 47 36.684 | W 007 32.146 | 786 | CORAIL dense mort et vivant |
| 8/27/21 | 11:35 | Canyon de Lampaul | N 47 36.692 | W 007 32.146 | 787 | SUBSTRAT dur ? |
| 8/27/21 | 11:36 | Canyon de Lampaul | N 47 36.701 | W 007 32.147 | 786 | fin du jardin de corail, on arrive bord de falaise |
| 8/27/21 | 11:36 | Canyon de Lampaul | N 47 36.708 | W 007 32.148 | 785 | Fin de profil 36 |
| 8/27/21 | 11:37 | Canyon de Lampaul | N 47 36.714 | W 007 32.147 | 785 | On arrete les profils pour aller prelever |
| 8/27/21 | 11:41 | Canyon de Lampaul | N 47 36.721 | W 007 32.163 | 788 | falaise, on se dirige vers le sommet |
| 8/27/21 | 11:44 | Canyon de Lampaul | N 47 36.722 | W 007 32.177 | 778 | on oriente camera science et APN de face |
| 8/27/21 | 11:45 | Canyon de Lampaul | N 47 36.719 | W 007 32.183 | 775 | CORAIL dense mort et vivant |
| 8/27/21 | 11:48 | Canyon de Lampaul | N 47 36.705 | W 007 32.188 | 776 | Posé pour prelevements |
| 8/27/21 | 11:52 | Canyon de Lampaul | N 47 36.704 | W 007 32.189 | 776 | Debut PRELEVEMEN CT1 |
| 8/27/21 | 11:54 | Canyon de Lampaul | N 47 36.704 | W 007 32.189 | 776 | carotte ne tient pas, echec |
| 8/27/21 | 11:56 | Canyon de Lampaul | N 47 36.704 | W 007 32.190 | 776 | CT1 rangé vide |
| 8/27/21 | 11:57 | Canyon de Lampaul | N 47 36.704 | W 007 32.190 | 775 | on pivote pour prelever de l'autre cote |
| 8/27/21 | 11:59 | Canyon de Lampaul | N 47 36.704 | W 007 32.190 | 776 | changement quart (Franck) |
| 8/27/21 | 12:00 | Canyon de Lampaul | N 47 36.704 | W 007 32.190 | 776 | essai carottage pres Madrepora |
| 8/27/21 | 12:01 | Canyon de Lampaul | N 47 36.704 | W 007 32.190 | 776 | debut PRELEVEMEN CT2 |
| 8/27/21 | 12:01 | Canyon de Lampaul | N 47 36.704 | W 007 32.190 | 776 | CT2 |
| 8/27/21 | 12:02 | Canyon de Lampaul | N 47 36.705 | W 007 32.190 | 776 | pas possible de s'enfoncer, changement de zone (legerement plus a gauche) |
| 8/27/21 | 12:03 | Canyon de Lampaul | N 47 36.705 | W 007 32.190 | 776 | debut PRELEVEMEN CT2 _ 2eme essai |
| 8/27/21 | 12:04 | Canyon de Lampaul | N 47 36.705 | W 007 32.190 | 775 | echec carottage |
| 8/27/21 | 12:05 | Canyon de | N 47 | W 007 | 776 | positionnement pour prelevement |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 36.705 | 32.190 | | Madrepora |
| 8/27/21 | 12:07 | Canyon de Lampaul | N 47 36.704 | W 007 32.190 | 776 | PRELEVEMEN Madrepora |
| 8/27/21 | 12:09 | Canyon de Lampaul | N 47 36.704 | W 007 32.190 | 776 | CB-D-01_Madr |
| 8/27/21 | 12:10 | Canyon de Lampaul | N 47 36.705 | W 007 32.192 | 775 | depart pour zone deployment MARLEY |
| 8/27/21 | 12:15 | Canyon de Lampaul | N 47 36.688 | W 007 32.176 | 776 | zone plus plane, potentielle pour deployment MARLEY |
| 8/27/21 | 12:17 | Canyon de Lampaul | N 47 36.690 | W 007 32.175 | 779 | positionné pour carottage 2 |
| 8/27/21 | 12:20 | Canyon de Lampaul | N 47 36.690 | W 007 32.176 | 779 | paré pour carotter CT2 |
| 8/27/21 | 12:21 | Canyon de Lampaul | N 47 36.690 | W 007 32.176 | 779 | debut PRELEVEMEN CT2 |
| 8/27/21 | 12:23 | Canyon de Lampaul | N 47 36.690 | W 007 32.175 | 779 | enfoncé jusqu'a etiquette |
| 8/27/21 | 12:24 | Canyon de Lampaul | N 47 36.690 | W 007 32.175 | 779 | enfoncé completement |
| 8/27/21 | 12:28 | Canyon de Lampaul | N 47 36.689 | W 007 32.176 | 779 | verrouillée |
| 8/27/21 | 12:29 | Canyon de Lampaul | N 47 36.690 | W 007 32.175 | 779 | une partie sediment restée sur place, encore un peu dans carotte |
| 8/27/21 | 12:31 | Canyon de Lampaul | N 47 36.690 | W 007 32.175 | 779 | PRELEVEMEN CT2 OK |
| 8/27/21 | 12:34 | Canyon de Lampaul | N 47 36.686 | W 007 32.187 | 775 | recherche Madrepora pour prelevement |
| 8/27/21 | 12:37 | Canyon de Lampaul | N 47 36.669 | W 007 32.189 | 774 | plus de batterie, parti pour clamper |
| 8/27/21 | 12:43 | Canyon de Lampaul | N 47 36.722 | W 007 32.178 | 697 | clampé |
| 8/27/21 | 12:43 | Canyon de Lampaul | N 47 36.722 | W 007 32.177 | 695 | fin de plongée |

6.17. Dive: 214 - 17

Date: **28/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|---|
| 28/08/2021 | 08:00 | Tourolle Julie, Moreau Bertrand, Lagadec Jean-Romain |
| 28/08/2021 | 09:00 | Lartaud Franck, Chemel Mathilde |
| 28/08/2021 | 10:00 | Moreau Bertrand, Lagadec Jean-Romain, Borremans Catherine |
| 28/08/2021 | 12:00 | |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

6.17.1. Objectives

Setting up of the MARLEY observatory, deployment of the camera module. *Madrepora* and *Lophelia* sampling.

The wifi connexion with MARLEY failed, video and image transects across the cliff to produce 3D mosaics instead.

6.17.2. Work abstract

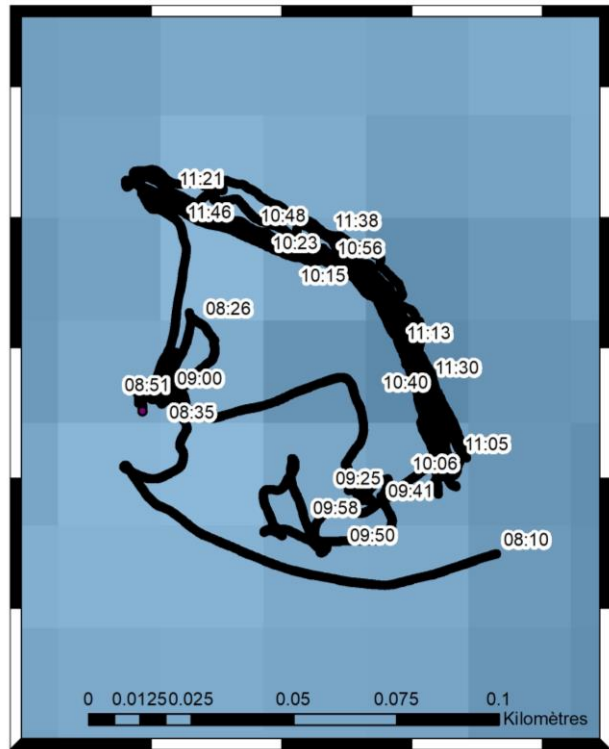
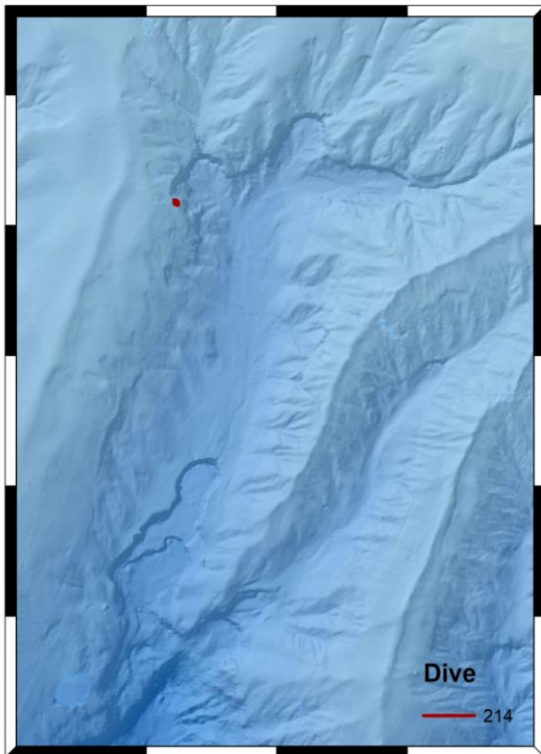
10 Sample operations

0 Measures

0 Moorings

118 Images

6.17.3. Map



6.17.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/28/21 | 08:08 | Canyon de Lampaul | N 47 36.670 | W 007 32.117 | 713 | declampage |
| 8/28/21 | 08:13 | Canyon de Lampaul | N 47 36.684 | W 007 32.182 | 743 | test commentaire |
| 8/28/21 | 08:15 | Canyon de Lampaul | N 47 36.688 | W 007 32.187 | 762 | arrivee sur zone |
| 8/28/21 | 08:17 | Canyon de Lampaul | N 47 36.697 | W 007 32.178 | 776 | MARLEY au fond |
| 8/28/21 | 08:20 | Canyon de Lampaul | N 47 36.699 | W 007 32.180 | 778 | beches correctement ensouillees |
| 8/28/21 | 08:22 | Canyon de Lampaul | N 47 36.699 | W 007 32.187 | 777 | verrouillage plateau camera sorti de son logement |
| 8/28/21 | 08:24 | Canyon de Lampaul | N 47 36.700 | W 007 32.181 | 777 | deplacement vers zone d interet |
| 8/28/21 | 08:25 | Canyon de Lampaul | N 47 36.702 | W 007 32.179 | 777 | jardin de CORAUX |
| 8/28/21 | 08:25 | Canyon de Lampaul | N 47 36.707 | W 007 32.177 | 776 | debut de falaise |
| 8/28/21 | 08:26 | Canyon de Lampaul | N 47 36.706 | W 007 32.174 | 777 | CORAIL potentiellement interessant |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/28/21 | 08:27 | Canyon de Lampaul | N 47 36.704 | W 007 32.172 | 777 | autre joli CORAIL |
| 8/28/21 | 08:29 | Canyon de Lampaul | N 47 36.700 | W 007 32.179 | 777 | retour vers MARLEY pour connexion wifi |
| 8/28/21 | 08:30 | Canyon de Lampaul | N 47 36.701 | W 007 32.181 | 777 | sortie panier et module wifi pour prehension avec bras 7 |
| 8/28/21 | 08:31 | Canyon de Lampaul | N 47 36.703 | W 007 32.180 | 777 | saisie wifi avec bras 7 |
| 8/28/21 | 08:32 | Canyon de Lampaul | N 47 36.703 | W 007 32.180 | 776 | module wifi en position dans bras 7 |
| 8/28/21 | 08:34 | Canyon de Lampaul | N 47 36.697 | W 007 32.182 | 778 | approche pour connexion wifi |
| 8/28/21 | 08:35 | Canyon de Lampaul | N 47 36.697 | W 007 32.182 | 779 | gueuses amovibles en place |
| 8/28/21 | 08:36 | Canyon de Lampaul | N 47 36.697 | W 007 32.182 | 779 | vessie externe partiellement gonflee de 6L, flottabilite generale de 91 kg - 36 = 55 kg |
| 8/28/21 | 08:36 | Canyon de Lampaul | N 47 36.697 | W 007 32.183 | 779 | connexion wifi en cours |
| 8/28/21 | 08:39 | Canyon de Lampaul | N 47 36.697 | W 007 32.182 | 779 | wifi en place |
| 8/28/21 | 08:41 | Canyon de Lampaul | N 47 36.697 | W 007 32.182 | 779 | wifi bien en position et vessie souriante |
| 8/28/21 | 08:44 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | sortie wifi pour verification visuelle cable |
| 8/28/21 | 08:47 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | cable visuellement en bon etat |
| 8/28/21 | 08:51 | Canyon de Lampaul | N 47 36.697 | W 007 32.182 | 779 | remise en place wifi dans panier |
| 8/28/21 | 08:56 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | beches posees mais pas enfoncees dans le sediment |
| 8/28/21 | 09:02 | Canyon de Lampaul | N 47 36.695 | W 007 32.174 | 774 | depart pour prelevement CORAUX |
| 8/28/21 | 09:06 | Canyon de Lampaul | N 47 36.688 | W 007 32.147 | 784 | positionne sur zone prelevement |
| 8/28/21 | 09:16 | Canyon de Lampaul | N 47 36.685 | W 007 32.145 | 792 | essai capture Lophelia |
| 8/28/21 | 09:21 | Canyon de Lampaul | N 47 36.685 | W 007 32.145 | 792 | PRELEVEMEN pl214_17_CB-A 5 (base seulement) |
| 8/28/21 | 09:24 | Canyon de Lampaul | N 47 36.686 | W 007 32.144 | 792 | suite Lophelia |
| 8/28/21 | 09:24 | Canyon de | N 47 | W 007 | 792 | PRELEVEMEN CB-A_Lophelia 5 (suite) OK |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 36.685 | 32.145 | | |
| 8/28/21 | 09:27 | Canyon de Lampaul | N 47 36.686 | W 007 32.144 | 792 | positionné pour relever Madrepora |
| 8/28/21 | 09:33 | Canyon de Lampaul | N 47 36.685 | W 007 32.144 | 792 | Madrepora attrapé |
| 8/28/21 | 09:35 | Canyon de Lampaul | N 47 36.684 | W 007 32.144 | 792 | PRELEVEMEN CB-A_Madrepo 7 |
| 8/28/21 | 09:42 | Canyon de Lampaul | N 47 36.685 | W 007 32.140 | 794 | positionne pour prelevement Lophelia |
| 8/28/21 | 09:45 | Canyon de Lampaul | N 47 36.685 | W 007 32.139 | 794 | colonie Lophelia attrapée (Madrepora accroché avec) |
| 8/28/21 | 09:47 | Canyon de Lampaul | N 47 36.685 | W 007 32.141 | 794 | PRELEVEMEN CB-B_Lophelia 6 + Madrepora ? |
| 8/28/21 | 09:48 | Canyon de Lampaul | N 47 36.685 | W 007 32.141 | 793 | depart zone prelevement |
| 8/28/21 | 09:51 | Canyon de Lampaul | N 47 36.681 | W 007 32.163 | 780 | depart pour falaise pour mosaïque |
| 8/28/21 | 09:52 | Canyon de Lampaul | N 47 36.682 | W 007 32.161 | 781 | sur la marche au dessus la falaise |
| 8/28/21 | 09:59 | Canyon de Lampaul | N 47 36.678 | W 007 32.152 | 783 | changement quart (Catherine & Jean-Romain) |
| 8/28/21 | 10:02 | Canyon de Lampaul | N 47 36.686 | W 007 32.139 | 786 | on se positionne sur falaise pour faire mosaïque |
| 8/28/21 | 10:06 | Canyon de Lampaul | N 47 36.687 | W 007 32.130 | 798 | debut de profil 1 |
| 8/28/21 | 10:08 | Canyon de Lampaul | N 47 36.695 | W 007 32.133 | 798 | CORAIL vivant |
| 8/28/21 | 10:09 | Canyon de Lampaul | N 47 36.701 | W 007 32.135 | 798 | CORAIL vivant belles colonies |
| 8/28/21 | 10:10 | Canyon de Lampaul | N 47 36.704 | W 007 32.137 | 799 | oursins |
| 8/28/21 | 10:11 | Canyon de Lampaul | N 47 36.707 | W 007 32.138 | 799 | vue haut falaise |
| 8/28/21 | 10:12 | Canyon de Lampaul | N 47 36.711 | W 007 32.144 | 794 | SUBSTRAT dur + sediments |
| 8/28/21 | 10:13 | Canyon de Lampaul | N 47 36.714 | W 007 32.149 | 792 | CORAIL peu dense vivant et mort |
| 8/28/21 | 10:15 | Canyon de Lampaul | N 47 36.716 | W 007 32.158 | 787 | haut de la falaise |
| 8/28/21 | 10:15 | Canyon de Lampaul | N 47 36.716 | W 007 32.159 | 786 | CORAIL grosses colonies vivant |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| 8/28/21 | 10:16 | Canyon de Lampaul | N 47 36.718 | W 007 32.165 | 787 | oursin Cidaridae |
| 8/28/21 | 10:17 | Canyon de Lampaul | N 47 36.721 | W 007 32.177 | 786 | CORAIL grosses colonies |
| 8/28/21 | 10:18 | Canyon de Lampaul | N 47 36.724 | W 007 32.186 | 786 | fin de profil 1 |
| 8/28/21 | 10:19 | Canyon de Lampaul | N 47 36.723 | W 007 32.184 | 788 | debut de profil 2 |
| 8/28/21 | 10:20 | Canyon de Lampaul | N 47 36.721 | W 007 32.177 | 787 | oursins Cidaridae |
| 8/28/21 | 10:21 | Canyon de Lampaul | N 47 36.720 | W 007 32.173 | 787 | CORAIL vivant belles colonies |
| 8/28/21 | 10:23 | Canyon de Lampaul | N 47 36.717 | W 007 32.163 | 789 | CORAIL mort et vivant |
| 8/28/21 | 10:24 | Canyon de Lampaul | N 47 36.716 | W 007 32.154 | 791 | CORAIL peu dense mort et vivant |
| 8/28/21 | 10:26 | Canyon de Lampaul | N 47 36.714 | W 007 32.145 | 794 | CORAIL isole sur dessus falaise |
| 8/28/21 | 10:27 | Canyon de Lampaul | N 47 36.712 | W 007 32.141 | 795 | CORAIL vivant isole |
| 8/28/21 | 10:32 | Canyon de Lampaul | N 47 36.699 | W 007 32.132 | 800 | distance falaise 4-4.5 m |
| 8/28/21 | 10:35 | Canyon de Lampaul | N 47 36.687 | W 007 32.129 | 802 | fin de profil 2 |
| 8/28/21 | 10:37 | Canyon de Lampaul | N 47 36.690 | W 007 32.129 | 803 | debut profil 3 |
| 8/28/21 | 10:38 | Canyon de Lampaul | N 47 36.694 | W 007 32.131 | 803 | sediment sur substrat dur sous le devers |
| 8/28/21 | 10:39 | Canyon de Lampaul | N 47 36.699 | W 007 32.132 | 803 | RANCH |
| 8/28/21 | 10:39 | Canyon de Lampaul | N 47 36.700 | W 007 32.133 | 803 | CORAIL peu dense vivant |
| 8/28/21 | 10:40 | Canyon de Lampaul | N 47 36.703 | W 007 32.136 | 802 | CORAIL dense mort et vivant au pied du devers |
| 8/28/21 | 10:42 | Canyon de Lampaul | N 47 36.713 | W 007 32.144 | 800 | CORAIL isole vivant |
| 8/28/21 | 10:46 | Canyon de Lampaul | N 47 36.717 | W 007 32.156 | 794 | CORAIL peu dense, belles colonies |
| 8/28/21 | 10:47 | Canyon de Lampaul | N 47 36.718 | W 007 32.160 | 792 | oursins |
| 8/28/21 | 10:51 | Canyon de | N 47 | W 007 | 789 | CORAIL peu dense |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 36.723 | 32.182 | | |
| 8/28/21 | 10:51 | Canyon de Lampaul | N 47 36.724 | W 007 32.184 | 791 | fin de profil 3 |
| 8/28/21 | 10:52 | Canyon de Lampaul | N 47 36.722 | W 007 32.181 | 791 | debut de profil 4 |
| 8/28/21 | 10:53 | Canyon de Lampaul | N 47 36.719 | W 007 32.168 | 792 | CORAIL belle colonie et poisson |
| 8/28/21 | 10:56 | Canyon de Lampaul | N 47 36.715 | W 007 32.151 | 800 | CORAIL vivant peu dense |
| 8/28/21 | 10:57 | Canyon de Lampaul | N 47 36.714 | W 007 32.147 | 802 | CORAIL vivant et mort dense au fond |
| 8/28/21 | 11:02 | Canyon de Lampaul | N 47 36.698 | W 007 32.131 | 802 | RANCH |
| 8/28/21 | 11:02 | Canyon de Lampaul | N 47 36.696 | W 007 32.132 | 804 | devers: complique pour mosaique |
| 8/28/21 | 11:05 | Canyon de Lampaul | N 47 36.692 | W 007 32.130 | 805 | fin de profil 4 |
| 8/28/21 | 11:07 | Canyon de Lampaul | N 47 36.695 | W 007 32.130 | 805 | on se repositionne pour demarrer profil a 45 degres pour la marche |
| 8/28/21 | 11:08 | Canyon de Lampaul | N 47 36.690 | W 007 32.128 | 804 | stop acquisition apn pour changer orientation a 45 degres et ensuite redemarrer |
| 8/28/21 | 11:10 | Canyon de Lampaul | N 47 36.691 | W 007 32.131 | 801 | acquisition redemarree |
| 8/28/21 | 11:12 | Canyon de Lampaul | N 47 36.702 | W 007 32.136 | 799 | 45 degres NOK, on stoppe apn et oriente a 30 degres |
| 8/28/21 | 11:13 | Canyon de Lampaul | N 47 36.703 | W 007 32.136 | 799 | apn redemarre |
| 8/28/21 | 11:13 | Canyon de Lampaul | N 47 36.704 | W 007 32.137 | 799 | profil 5 |
| 8/28/21 | 11:14 | Canyon de Lampaul | N 47 36.709 | W 007 32.141 | 799 | CORAIL dense mort et vivant, oursin |
| 8/28/21 | 11:16 | Canyon de Lampaul | N 47 36.718 | W 007 32.163 | 797 | CORAIL toujours tres dense sur la marche, mort et vivant, poisson, crabe |
| 8/28/21 | 11:18 | Canyon de Lampaul | N 47 36.725 | W 007 32.189 | 795 | fin de profil 5, stop apn |
| 8/28/21 | 11:19 | Canyon de Lampaul | N 47 36.725 | W 007 32.188 | 795 | apn regle a 0 degres et redemarre |
| 8/28/21 | 11:20 | Canyon de Lampaul | N 47 36.726 | W 007 32.186 | 796 | on descend pour demarrer profil sous la marche |
| 8/28/21 | 11:21 | Canyon de | N 47 | W 007 | 799 | debut de profil 6 |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 36.726 | 32.186 | | |
| 8/28/21 | 11:21 | Canyon de Lampaul | N 47 36.725 | W 007 32.183 | 799 | CORAIL dense mort et vivant |
| 8/28/21 | 11:22 | Canyon de Lampaul | N 47 36.724 | W 007 32.172 | 799 | SUBSTRAT sediment au fond |
| 8/28/21 | 11:24 | Canyon de Lampaul | N 47 36.718 | W 007 32.157 | 801 | on redescend un peu car on est sur la marche |
| 8/28/21 | 11:25 | Canyon de Lampaul | N 47 36.718 | W 007 32.153 | 804 | CORAIL dense mort et vivant, belle colonie sous la marche, poisson |
| 8/28/21 | 11:26 | Canyon de Lampaul | N 47 36.717 | W 007 32.149 | 804 | CORAIL isole sur bas du tombant |
| 8/28/21 | 11:28 | Canyon de Lampaul | N 47 36.706 | W 007 32.137 | 804 | CORAIL isole antipathaire ? |
| 8/28/21 | 11:30 | Canyon de Lampaul | N 47 36.700 | W 007 32.132 | 805 | RANCH |
| 8/28/21 | 11:31 | Canyon de Lampaul | N 47 36.690 | W 007 32.126 | 807 | fin de profil 6 |
| 8/28/21 | 11:32 | Canyon de Lampaul | N 47 36.691 | W 007 32.126 | 808 | debut de profil 7 |
| 8/28/21 | 11:34 | Canyon de Lampaul | N 47 36.699 | W 007 32.131 | 807 | CORAIL dense mort et vivant, bivalves, oursin Cidaridae |
| 8/28/21 | 11:35 | Canyon de Lampaul | N 47 36.706 | W 007 32.134 | 806 | CORAIL Leiopathes et gorgone ? |
| 8/28/21 | 11:36 | Canyon de Lampaul | N 47 36.712 | W 007 32.138 | 805 | CORAIL dense mort et vivant |
| 8/28/21 | 11:37 | Canyon de Lampaul | N 47 36.715 | W 007 32.141 | 805 | avancee falaise |
| 8/28/21 | 11:38 | Canyon de Lampaul | N 47 36.718 | W 007 32.148 | 805 | CORAIL isole sur flanc SUBSTRAT dur, bivalves |
| 8/28/21 | 11:38 | Canyon de Lampaul | N 47 36.720 | W 007 32.154 | 804 | CORAIL belles colonies, poisson |
| 8/28/21 | 11:41 | Canyon de Lampaul | N 47 36.725 | W 007 32.174 | 804 | retour en arriere pour couvrir fin de profil |
| 8/28/21 | 11:42 | Canyon de Lampaul | N 47 36.724 | W 007 32.171 | 802 | on repart vers la fin du profil |
| 8/28/21 | 11:43 | Canyon de Lampaul | N 47 36.725 | W 007 32.180 | 800 | CORAIL dense mort et vivant |
| 8/28/21 | 11:43 | Canyon de Lampaul | N 47 36.726 | W 007 32.186 | 801 | fin de profil 7 |
| 8/28/21 | 11:44 | Canyon de Lampaul | N 47 36.726 | W 007 32.187 | 799 | on se dirige vers MARLEY |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|-----------------------------|
| 8/28/21 | 11:47 | Canyon de Lampaul | N 47 36.712 | W 007 32.179 | 774 | stop apn |
| 8/28/21 | 11:49 | Canyon de Lampaul | N 47 36.698 | W 007 32.184 | 775 | on retrouve MARLEY |
| 8/28/21 | 12:00 | Canyon de Lampaul | N 47 36.696 | W 007 32.185 | 777 | turbidimetre ON |
| 8/28/21 | 12:00 | Canyon de Lampaul | N 47 36.696 | W 007 32.185 | 777 | projecteur ON |
| 8/28/21 | 12:03 | Canyon de Lampaul | N 47 36.698 | W 007 32.188 | 776 | projecteur OFF |
| 8/28/21 | 12:03 | Canyon de Lampaul | N 47 36.698 | W 007 32.188 | 776 | fin de plongee, depart fond |

6.18. Dive: 215 - 18

Date: **29/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|--|
| 29/08/2021 | 07:00 | Tourolle Julie, Moreau Bertrand, Bacher Alan, Menot Lénaïck, Borremans Catherine |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

6.18.1. Objectives

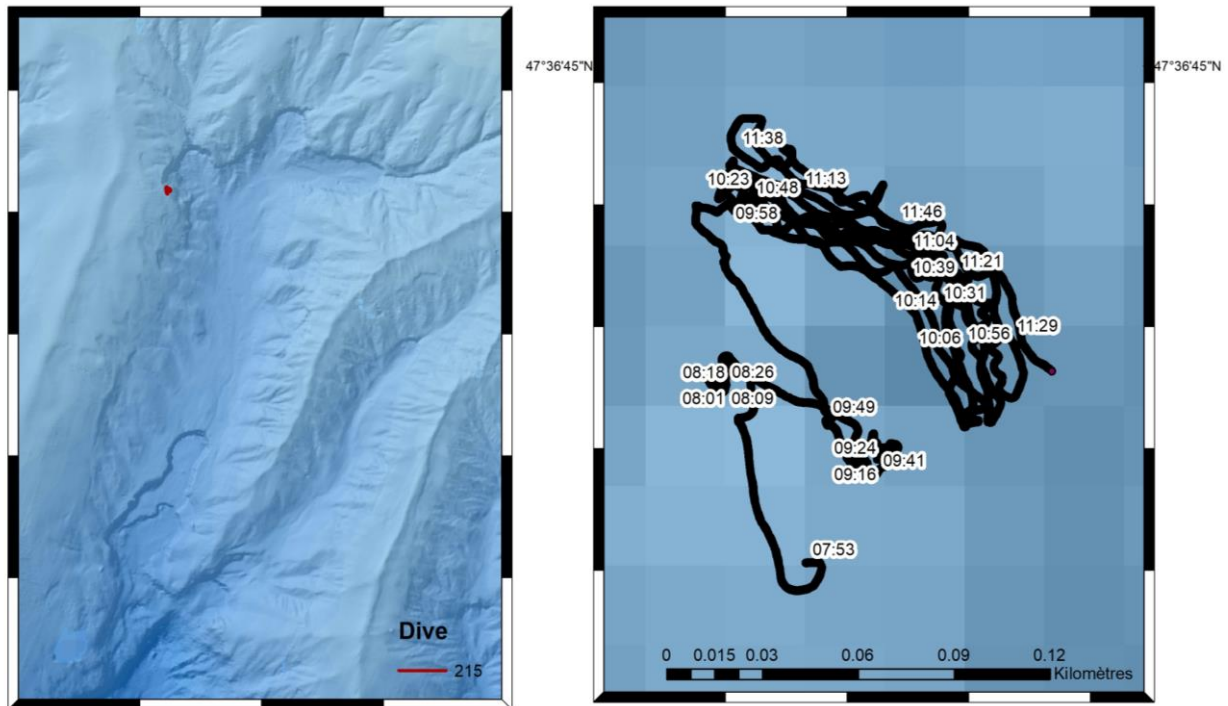
Setting up of the MARLEY observatory, deployment of the camera module. *Madrepora* and *Lophelia* sampling.

The wifi connexion with MARLEY failed again, video and image transects across the cliff to produce 3D mosaics instead.

6.18.2. Work abstract

- 10 Sample operations
- 0 Measures
- 0 Moorings
- 115 Images

6.18.3. Map



6.18.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/29/21 | 07:42 | Canyon de Lampaul | N 47 36.689 | W 007 32.098 | 687 | descente |
| 8/29/21 | 07:43 | Canyon de Lampaul | N 47 36.689 | W 007 32.099 | 686 | declampage |
| 8/29/21 | 07:43 | Canyon de Lampaul | N 47 36.687 | W 007 32.100 | 688 | on part au fond |
| 8/29/21 | 07:52 | Canyon de Lampaul | N 47 36.667 | W 007 32.169 | 771 | demarrage enregistrement |
| 8/29/21 | 07:52 | Canyon de Lampaul | N 47 36.667 | W 007 32.166 | 771 | arrivee au fond |
| 8/29/21 | 07:53 | Canyon de Lampaul | N 47 36.664 | W 007 32.162 | 779 | Arrivee jardin de coraux |
| 8/29/21 | 07:54 | Canyon de Lampaul | N 47 36.664 | W 007 32.167 | 778 | CORAIL mort et vivant peu dense |
| 8/29/21 | 07:55 | Canyon de Lampaul | N 47 36.687 | W 007 32.177 | 777 | SUBSTRAT meuble |
| 8/29/21 | 07:55 | Canyon de Lampaul | N 47 36.691 | W 007 32.179 | 776 | Marley en vue |
| 8/29/21 | 07:56 | Canyon de Lampaul | N 47 36.692 | W 007 32.177 | 776 | wifi fonctionne toujours |
| 8/29/21 | 07:57 | Canyon de | N 47 | W 007 | 776 | on se positionne devant l'observatoire |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 36.696 | 32.176 | | |
| 8/29/21 | 07:58 | Canyon de Lampaul | N 47 36.701 | W 007 32.183 | 775 | camera en horizontal |
| 8/29/21 | 08:01 | Canyon de Lampaul | N 47 36.699 | W 007 32.187 | 775 | connecteur wifi dans la pince et sorti |
| 8/29/21 | 08:02 | Canyon de Lampaul | N 47 36.699 | W 007 32.187 | 775 | on va se poser |
| 8/29/21 | 08:04 | Canyon de Lampaul | N 47 36.697 | W 007 32.183 | 778 | on est pose |
| 8/29/21 | 08:05 | Canyon de Lampaul | N 47 36.697 | W 007 32.183 | 779 | on va se connecter |
| 8/29/21 | 08:07 | Canyon de Lampaul | N 47 36.697 | W 007 32.183 | 779 | connecteur tombe |
| 8/29/21 | 08:08 | Canyon de Lampaul | N 47 36.697 | W 007 32.183 | 779 | on va le recuperer |
| 8/29/21 | 08:11 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | poignee connecteur dans pince hrov |
| 8/29/21 | 08:11 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | on se repositionne |
| 8/29/21 | 08:13 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 778 | connecteur au dessus |
| 8/29/21 | 08:13 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 778 | connecteur en place |
| 8/29/21 | 08:14 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 778 | wifi ne fonctionne plus |
| 8/29/21 | 08:16 | Canyon de Lampaul | N 47 36.698 | W 007 32.183 | 778 | on enleve connecteur |
| 8/29/21 | 08:21 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 778 | connecteur dans pince |
| 8/29/21 | 08:22 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | a priori fusible a saute |
| 8/29/21 | 08:24 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 778 | connecteur dans panier |
| 8/29/21 | 08:26 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 778 | on repart pour faire prelevements |
| 8/29/21 | 08:29 | Canyon de Lampaul | N 47 36.699 | W 007 32.176 | 775 | rebord de la marche |
| 8/29/21 | 08:29 | Canyon de Lampaul | N 47 36.698 | W 007 32.174 | 775 | on descend la marche |
| 8/29/21 | 08:31 | Canyon de Lampaul | N 47 36.689 | W 007 32.151 | 784 | on se positionne pour prelevement |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/29/21 | 08:33 | Canyon de Lampaul | N 47 36.686 | W 007 32.151 | 786 | on sort panier |
| 8/29/21 | 08:34 | Canyon de Lampaul | N 47 36.685 | W 007 32.152 | 782 | beaucoup de courant |
| 8/29/21 | 08:36 | Canyon de Lampaul | N 47 36.684 | W 007 32.150 | 789 | Apn horizontal |
| 8/29/21 | 08:37 | Canyon de Lampaul | N 47 36.685 | W 007 32.149 | 789 | difficile de se positionner avec courant (courant vient de la gauche =nord ouest) |
| 8/29/21 | 08:42 | Canyon de Lampaul | N 47 36.685 | W 007 32.150 | 789 | debut PRELEVEMEN Madrepora |
| 8/29/21 | 08:49 | Canyon de Lampaul | N 47 36.685 | W 007 32.150 | 789 | Madrepora attrapé |
| 8/29/21 | 08:51 | Canyon de Lampaul | N 47 36.685 | W 007 32.150 | 789 | PRELEVEMEN CB-D01_Madre 10 |
| 8/29/21 | 08:54 | Canyon de Lampaul | N 47 36.686 | W 007 32.150 | 789 | positionnement pour prelever Lophelia |
| 8/29/21 | 08:56 | Canyon de Lampaul | N 47 36.686 | W 007 32.150 | 789 | debut prelevement Lophelia |
| 8/29/21 | 09:00 | Canyon de Lampaul | N 47 36.686 | W 007 32.149 | 786 | abandon Lophelia, trop dur a attraper |
| 8/29/21 | 09:05 | Canyon de Lampaul | N 47 36.688 | W 007 32.146 | 790 | positionnement pour prelevement Madrepora |
| 8/29/21 | 09:07 | Canyon de Lampaul | N 47 36.688 | W 007 32.146 | 790 | pret pour Madrepora |
| 8/29/21 | 09:08 | Canyon de Lampaul | N 47 36.688 | W 007 32.146 | 790 | attrapé |
| 8/29/21 | 09:09 | Canyon de Lampaul | N 47 36.688 | W 007 32.147 | 790 | PRELEVEMEN CB-A01_Madre 11 |
| 8/29/21 | 09:13 | Canyon de Lampaul | N 47 36.687 | W 007 32.145 | 788 | positionnement pour Lophelia |
| 8/29/21 | 09:22 | Canyon de Lampaul | N 47 36.685 | W 007 32.144 | 789 | repositionneme pour prel Lophelia |
| 8/29/21 | 09:25 | Canyon de Lampaul | N 47 36.685 | W 007 32.144 | 790 | Lophelia attrapé |
| 8/29/21 | 09:26 | Canyon de Lampaul | N 47 36.685 | W 007 32.143 | 790 | PRELEVEMEN CB-D02_Lophel 7 |
| 8/29/21 | 09:28 | Canyon de Lampaul | N 47 36.685 | W 007 32.143 | 789 | positionnement pour 2eme Lophelia |
| 8/29/21 | 09:30 | Canyon de Lampaul | N 47 36.686 | W 007 32.142 | 790 | Lophelia attrapé |
| 8/29/21 | 09:31 | Canyon de | N 47 | W 007 | 790 | PRELEVEMEN CB-A02_Lophel 8 |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 36.686 | 32.142 | | |
| 8/29/21 | 09:32 | Canyon de Lampaul | N 47 36.685 | W 007 32.142 | 790 | positionnement pour autre Lophelia |
| 8/29/21 | 09:37 | Canyon de Lampaul | N 47 36.685 | W 007 32.143 | 790 | Lophelia attrapé mais tombé |
| 8/29/21 | 09:39 | Canyon de Lampaul | N 47 36.685 | W 007 32.143 | 790 | attrapé Lophelia |
| 8/29/21 | 09:39 | Canyon de Lampaul | N 47 36.685 | W 007 32.142 | 790 | PRELEVEMEN CB-A03_Lophel 9 |
| 8/29/21 | 09:40 | Canyon de Lampaul | N 47 36.685 | W 007 32.143 | 788 | depart zone collecte |
| 8/29/21 | 09:46 | Canyon de Lampaul | N 47 36.688 | W 007 32.154 | 784 | depart pour mosaïque falaise |
| 8/29/21 | 09:50 | Canyon de Lampaul | N 47 36.693 | W 007 32.158 | 784 | changement de quart Catherine et Julie |
| 8/29/21 | 09:57 | Canyon de Lampaul | N 47 36.727 | W 007 32.182 | 801 | on est à la position pour reprendre les profils mosaïque falaise |
| 8/29/21 | 09:59 | Canyon de Lampaul | N 47 36.726 | W 007 32.179 | 801 | debut de profil 8 |
| 8/29/21 | 10:00 | Canyon de Lampaul | N 47 36.724 | W 007 32.174 | 801 | CORAIL dense mort et vivant |
| 8/29/21 | 10:02 | Canyon de Lampaul | N 47 36.719 | W 007 32.157 | 801 | CORAIL dense mort et vivant bivalves |
| 8/29/21 | 10:04 | Canyon de Lampaul | N 47 36.716 | W 007 32.147 | 800 | CORAIL isole |
| 8/29/21 | 10:05 | Canyon de Lampaul | N 47 36.712 | W 007 32.140 | 800 | CORAIL isole |
| 8/29/21 | 10:06 | Canyon de Lampaul | N 47 36.703 | W 007 32.133 | 800 | CORAIL peu dense |
| 8/29/21 | 10:08 | Canyon de Lampaul | N 47 36.693 | W 007 32.124 | 805 | on est déjà passé ici, on recommence (profil 8 avorte) |
| 8/29/21 | 10:11 | Canyon de Lampaul | N 47 36.691 | W 007 32.125 | 805 | debut profil 9 (on repart de l'extrémité Est) |
| 8/29/21 | 10:12 | Canyon de Lampaul | N 47 36.696 | W 007 32.128 | 806 | CORAIL dense mort et vivant, bivalves |
| 8/29/21 | 10:14 | Canyon de Lampaul | N 47 36.705 | W 007 32.131 | 806 | CORAIL Leiopathes et Callogorgia ? |
| 8/29/21 | 10:14 | Canyon de Lampaul | N 47 36.712 | W 007 32.135 | 806 | CORAIL dense mort et vivant |
| 8/29/21 | 10:15 | Canyon de Lampaul | N 47 36.715 | W 007 32.139 | 805 | CORAIL belle colonie |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|-----------------------------------|
| 8/29/21 | 10:15 | Canyon de Lampaul | N 47 36.717 | W 007 32.143 | 806 | CORAIL peu dense |
| 8/29/21 | 10:17 | Canyon de Lampaul | N 47 36.722 | W 007 32.163 | 806 | CORAIL belles colonies isolees |
| 8/29/21 | 10:20 | Canyon de Lampaul | N 47 36.728 | W 007 32.180 | 806 | CORAIL peu dense |
| 8/29/21 | 10:21 | Canyon de Lampaul | N 47 36.731 | W 007 32.183 | 806 | fin de profil 9 |
| 8/29/21 | 10:23 | Canyon de Lampaul | N 47 36.730 | W 007 32.180 | 810 | debut de profil 10 |
| 8/29/21 | 10:26 | Canyon de Lampaul | N 47 36.724 | W 007 32.161 | 809 | decroche dans la falaise |
| 8/29/21 | 10:28 | Canyon de Lampaul | N 47 36.718 | W 007 32.142 | 809 | CORAIL dense mort et vivant |
| 8/29/21 | 10:34 | Canyon de Lampaul | N 47 36.695 | W 007 32.119 | 809 | visibilite mediocre |
| 8/29/21 | 10:35 | Canyon de Lampaul | N 47 36.693 | W 007 32.123 | 812 | fin de profil 10 |
| 8/29/21 | 10:35 | Canyon de Lampaul | N 47 36.694 | W 007 32.123 | 811 | debut de profil 11 |
| 8/29/21 | 10:36 | Canyon de Lampaul | N 47 36.699 | W 007 32.125 | 812 | CORAIL dense mort et vivant |
| 8/29/21 | 10:40 | Canyon de Lampaul | N 47 36.721 | W 007 32.144 | 812 | beaucoup de courant |
| 8/29/21 | 10:44 | Canyon de Lampaul | N 47 36.728 | W 007 32.179 | 810 | fin de profil 11 |
| 8/29/21 | 10:46 | Canyon de Lampaul | N 47 36.731 | W 007 32.176 | 813 | debut de profil 12 |
| 8/29/21 | 10:50 | Canyon de Lampaul | N 47 36.722 | W 007 32.154 | 813 | CORAIL dense mort et vivant |
| 8/29/21 | 10:53 | Canyon de Lampaul | N 47 36.716 | W 007 32.131 | 814 | CORAIL grosse colonie sur l'arete |
| 8/29/21 | 10:55 | Canyon de Lampaul | N 47 36.711 | W 007 32.125 | 814 | paroi nue |
| 8/29/21 | 10:57 | Canyon de Lampaul | N 47 36.695 | W 007 32.119 | 814 | fin de profil 12 |
| 8/29/21 | 10:59 | Canyon de Lampaul | N 47 36.694 | W 007 32.116 | 817 | debut de profil 13 |
| 8/29/21 | 11:00 | Canyon de Lampaul | N 47 36.697 | W 007 32.118 | 816 | CORAIL isole, SUBSTRAT dur |
| 8/29/21 | 11:01 | Canyon de | N 47 | W 007 | 816 | CORAIL dense mort en bas paroi |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 36.702 | 32.120 | | |
| 8/29/21 | 11:03 | Canyon de Lampaul | N 47 36.715 | W 007 32.126 | 816 | CORAIL grosses colonies sur l'arete |
| 8/29/21 | 11:05 | Canyon de Lampaul | N 47 36.722 | W 007 32.141 | 816 | CORAIL peu dense |
| 8/29/21 | 11:08 | Canyon de Lampaul | N 47 36.727 | W 007 32.163 | 816 | grande paroi nue sous marche |
| 8/29/21 | 11:09 | Canyon de Lampaul | N 47 36.733 | W 007 32.180 | 816 | fin de profil 13 |
| 8/29/21 | 11:11 | Canyon de Lampaul | N 47 36.733 | W 007 32.180 | 819 | debut de profil 14 |
| 8/29/21 | 11:12 | Canyon de Lampaul | N 47 36.730 | W 007 32.168 | 821 | fin de zone CORAIL dense |
| 8/29/21 | 11:14 | Canyon de Lampaul | N 47 36.726 | W 007 32.155 | 821 | CORAIL dense mort et vivant |
| 8/29/21 | 11:15 | Canyon de Lampaul | N 47 36.730 | W 007 32.145 | 821 | on s'est ecarte, on se rapproche |
| 8/29/21 | 11:20 | Canyon de Lampaul | N 47 36.719 | W 007 32.132 | 821 | CORAIL dense mort et vivant |
| 8/29/21 | 11:24 | Canyon de Lampaul | N 47 36.707 | W 007 32.121 | 820 | crabe |
| 8/29/21 | 11:26 | Canyon de Lampaul | N 47 36.701 | W 007 32.117 | 820 | CORAIL mort dense |
| 8/29/21 | 11:27 | Canyon de Lampaul | N 47 36.696 | W 007 32.113 | 820 | fin de profil 14 |
| 8/29/21 | 11:28 | Canyon de Lampaul | N 47 36.699 | W 007 32.110 | 825 | debut de profil 15 |
| 8/29/21 | 11:33 | Canyon de Lampaul | N 47 36.723 | W 007 32.140 | 824 | CORAIL isole |
| 8/29/21 | 11:36 | Canyon de Lampaul | N 47 36.733 | W 007 32.168 | 823 | CORAIL peu dense mort et vivant |
| 8/29/21 | 11:37 | Canyon de Lampaul | N 47 36.736 | W 007 32.179 | 823 | fin de profil 15 |
| 8/29/21 | 11:40 | Canyon de Lampaul | N 47 36.738 | W 007 32.175 | 827 | debut de profil 16 |
| 8/29/21 | 11:46 | Canyon de Lampaul | N 47 36.725 | W 007 32.144 | 825 | paroi nue et CORAIL dense en contrebas |
| 8/29/21 | 11:49 | Canyon de Lampaul | N 47 36.720 | W 007 32.120 | 827 | CORAIL dense |
| 8/29/21 | 11:50 | Canyon de Lampaul | N 47 36.710 | W 007 32.112 | 827 | visibilite mediocre |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|------------------|
| 8/29/21 | 11:52 | Canyon de Lampaul | N 47 36.699 | W 007 32.100 | 829 | fin de profil 16 |
| 8/29/21 | 11:52 | Canyon de Lampaul | N 47 36.700 | W 007 32.099 | 829 | fin de plongee |

6.19. Dive: 216 - 19

Date: **30/08/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|--|
| 30/08/2021 | 07:00 | Lartaud Franck, Tourolle Julie, Chemel Mathilde, Moreau Bertrand, Lagadec Jean-Romain, Borremans Catherine |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

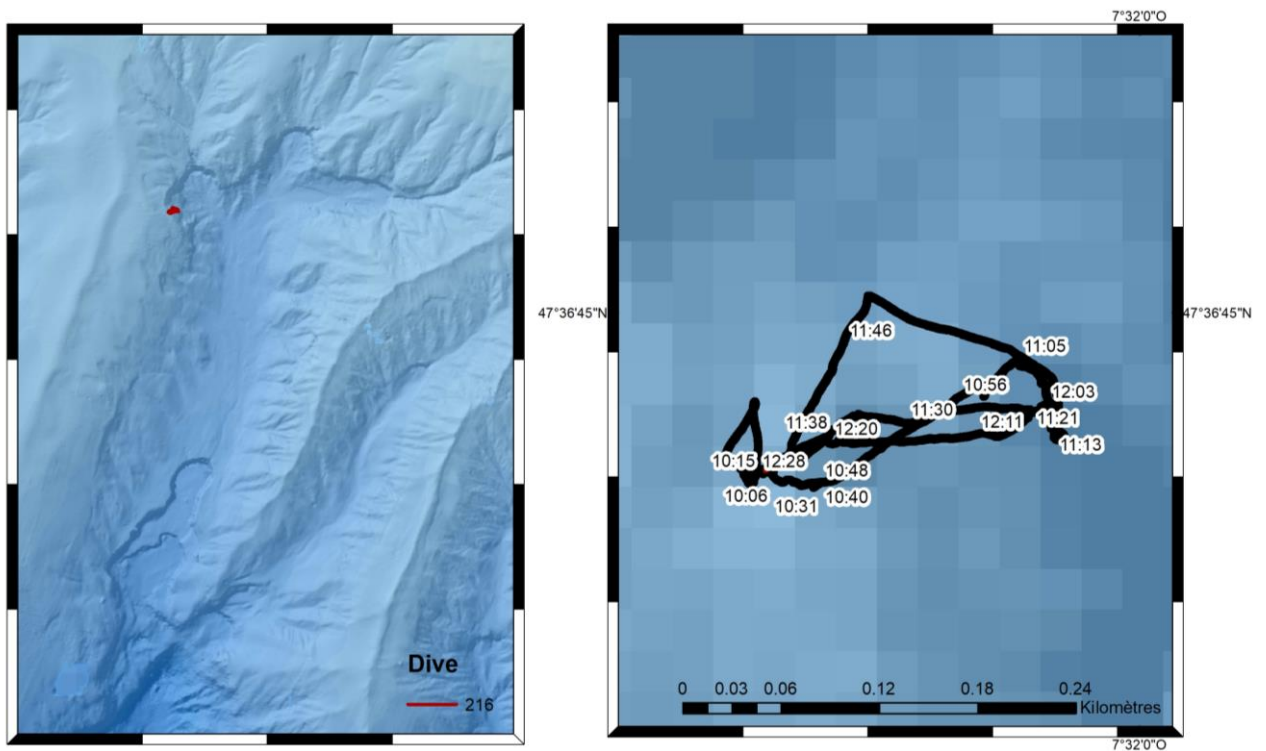
6.19.1. Objectives

Deployment of RANCH-2, setting up of the MARLEY observatory and deployment of the camera module. Issues with the ballasts and the buoyancy of the observatory, the camera module is not deployed.

6.19.2. Work abstract

- 0 Sample operations
- 0 Measures
- 0 Moorings
- 110 Images

6.19.3. Map



6.19.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|-------------|--------------|----------|---|
| 8/30/21 | 07:34 | Canyon de Lampaul | N 47 36.728 | W 007 32.169 | 651 | descente |
| 8/30/21 | 07:39 | Canyon de Lampaul | N 47 36.721 | W 007 32.179 | 682 | declampé, descente au fond |
| 8/30/21 | 07:43 | Canyon de Lampaul | N 47 36.704 | W 007 32.183 | 763 | arrivee au fond |
| 8/30/21 | 07:43 | Canyon de Lampaul | N 47 36.700 | W 007 32.184 | 775 | MARLEY |
| 8/30/21 | 07:45 | Canyon de Lampaul | N 47 36.702 | W 007 32.181 | 774 | enregistrement video lance |
| 8/30/21 | 07:46 | Canyon de Lampaul | N 47 36.713 | W 007 32.182 | 773 | on recule depuis MARLEY vers jardin corail camera |
| 8/30/21 | 07:48 | Canyon de Lampaul | N 47 36.708 | W 007 32.194 | 774 | positionnement pour poser le RANCH-2 |
| 8/30/21 | 07:50 | Canyon de Lampaul | N 47 36.703 | W 007 32.192 | 779 | RANCH-2 attrapé |
| 8/30/21 | 07:51 | Canyon de Lampaul | N 47 36.703 | W 007 32.191 | 779 | RANCH-2 déposé |
| 8/30/21 | 07:54 | Canyon de Lampaul | N 47 36.700 | W 007 32.188 | 777 | on va se poser a cote observatoire |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/30/21 | 07:55 | Canyon de Lampaul | N 47 36.700 | W 007 32.188 | 779 | la station a bouge traces sur fond |
| 8/30/21 | 07:56 | Canyon de Lampaul | N 47 36.701 | W 007 32.187 | 779 | hrov pose |
| 8/30/21 | 07:56 | Canyon de Lampaul | N 47 36.701 | W 007 32.188 | 779 | on sort connecteur |
| 8/30/21 | 07:57 | Canyon de Lampaul | N 47 36.701 | W 007 32.188 | 779 | connecteur dans fourreau |
| 8/30/21 | 07:59 | Canyon de Lampaul | N 47 36.700 | W 007 32.188 | 779 | connecteur en place ping ok |
| 8/30/21 | 08:00 | Canyon de Lampaul | N 47 36.698 | W 007 32.187 | 779 | lancement scan |
| 8/30/21 | 08:00 | Canyon de Lampaul | N 47 36.698 | W 007 32.187 | 779 | MARLEY repond |
| 8/30/21 | 08:02 | Canyon de Lampaul | N 47 36.697 | W 007 32.184 | 779 | test de reglage des ballasts |
| 8/30/21 | 08:02 | Canyon de Lampaul | N 47 36.697 | W 007 32.184 | 779 | MARLEY a pivote de 20 degres autour de l'ADCP |
| 8/30/21 | 08:04 | Canyon de Lampaul | N 47 36.699 | W 007 32.182 | 779 | les ballasts sont gonfles visuellement et leur etat logiciel l'indique egalement |
| 8/30/21 | 08:07 | Canyon de Lampaul | N 47 36.698 | W 007 32.183 | 779 | les gueuses sont toujours en place les ballasts etant gonfles il est normal que la station ait glisse |
| 8/30/21 | 08:09 | Canyon de Lampaul | N 47 36.697 | W 007 32.185 | 779 | perte de connexion avec MARLEY |
| 8/30/21 | 08:12 | Canyon de Lampaul | N 47 36.698 | W 007 32.183 | 779 | sortie et remise en place du wifi pour reconnexion |
| 8/30/21 | 08:16 | Canyon de Lampaul | N 47 36.697 | W 007 32.184 | 779 | deuxieme tentative de reconnexion |
| 8/30/21 | 08:17 | Canyon de Lampaul | N 47 36.698 | W 007 32.183 | 779 | connexion retablie |
| 8/30/21 | 08:18 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | pression dans costof2 ok |
| 8/30/21 | 08:22 | Canyon de Lampaul | N 47 36.698 | W 007 32.185 | 779 | le ballast Marat annonce une pression interne de 9 bar, ce qui n est pas coherent il faudra aller le voir pour verifier son etat |
| 8/30/21 | 08:25 | Canyon de Lampaul | N 47 36.699 | W 007 32.184 | 779 | test des capteurs ADCP ok turbidimetres ok |
| 8/30/21 | 08:29 | Canyon de Lampaul | N 47 36.698 | W 007 32.184 | 779 | projecteurs ok |
| 8/30/21 | 08:37 | Canyon de | N 47 | W 007 | 779 | la vessie de Marat est egalement gonflee il est probable que le gonflage d urgence se soit |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 36.697 | 32.183 | | declenche |
| 8/30/21 | 08:48 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | test purge Danton |
| 8/30/21 | 08:50 | Canyon de Lampaul | N 47 36.698 | W 007 32.183 | 779 | Danton se purge |
| 8/30/21 | 08:51 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | Danton est purge partiellement |
| 8/30/21 | 09:02 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | le ballast Danton ne se regonfle pas sans ordre il va etre completement purge |
| 8/30/21 | 09:05 | Canyon de Lampaul | N 47 36.698 | W 007 32.184 | 779 | CRABE |
| 8/30/21 | 09:08 | Canyon de Lampaul | N 47 36.698 | W 007 32.184 | 779 | ballast Danton completement purge |
| 8/30/21 | 09:17 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | perte de connexion |
| 8/30/21 | 09:18 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | retour de la communication le ballast Corday va etre purge egalement |
| 8/30/21 | 09:22 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | debut purge Corday |
| 8/30/21 | 09:27 | Canyon de Lampaul | N 47 36.698 | W 007 32.183 | 779 | ballast Corday completement purge |
| 8/30/21 | 09:32 | Canyon de Lampaul | N 47 36.698 | W 007 32.183 | 779 | test |
| 8/30/21 | 09:36 | Canyon de Lampaul | N 47 36.698 | W 007 32.183 | 779 | les ballasts Corday et Danton sont purges |
| 8/30/21 | 09:36 | Canyon de Lampaul | N 47 36.698 | W 007 32.183 | 779 | debut deconnexion wifi |
| 8/30/21 | 09:37 | Canyon de Lampaul | N 47 36.698 | W 007 32.183 | 779 | wifi deconnectee |
| 8/30/21 | 09:38 | Canyon de Lampaul | N 47 36.699 | W 007 32.183 | 779 | wifi dans panier |
| 8/30/21 | 09:39 | Canyon de Lampaul | N 47 36.699 | W 007 32.184 | 778 | deplacement vers interrupteur d urgence |
| 8/30/21 | 09:41 | Canyon de Lampaul | N 47 36.695 | W 007 32.185 | 779 | l interrupteur d urgence a l'air en bon etat exterieur |
| 8/30/21 | 09:43 | Canyon de Lampaul | N 47 36.697 | W 007 32.184 | 775 | deplacement pour reconnexion wifi |
| 8/30/21 | 09:45 | Canyon de Lampaul | N 47 36.698 | W 007 32.183 | 779 | positionnement pour reconnexion |
| 8/30/21 | 09:46 | Canyon de Lampaul | N 47 36.697 | W 007 32.183 | 779 | debut mise en place wifi |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| 8/30/21 | 09:51 | Canyon de Lampaul | N 47 36.699 | W 007 32.182 | 779 | saisie wifi par flotteur |
| 8/30/21 | 09:55 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | wifi dans bras 7 |
| 8/30/21 | 10:04 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | saisie wifi avec bras 5 |
| 8/30/21 | 10:05 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | saisie wifi dans bras 7 |
| 8/30/21 | 10:07 | Canyon de Lampaul | N 47 36.698 | W 007 32.183 | 779 | wifi en place |
| 8/30/21 | 10:08 | Canyon de Lampaul | N 47 36.698 | W 007 32.183 | 779 | wifi connecte |
| 8/30/21 | 10:14 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | fin de connexion fichiers recuperes |
| 8/30/21 | 10:16 | Canyon de Lampaul | N 47 36.698 | W 007 32.182 | 779 | remise en place wifi dans panier |
| 8/30/21 | 10:18 | Canyon de Lampaul | N 47 36.700 | W 007 32.181 | 776 | on quitte MARLEY |
| 8/30/21 | 10:19 | Canyon de Lampaul | N 47 36.699 | W 007 32.176 | 776 | retour sur zone de prelevements |
| 8/30/21 | 10:22 | Canyon de Lampaul | N 47 36.695 | W 007 32.155 | 785 | on se positionne devant colonie |
| 8/30/21 | 10:23 | Canyon de Lampaul | N 47 36.694 | W 007 32.154 | 787 | on sort aspi |
| 8/30/21 | 10:25 | Canyon de Lampaul | N 47 36.694 | W 007 32.154 | 787 | aspi dans pince |
| 8/30/21 | 10:26 | Canyon de Lampaul | N 47 36.694 | W 007 32.154 | 787 | aspi hors de son support |
| 8/30/21 | 10:27 | Canyon de Lampaul | N 47 36.695 | W 007 32.154 | 787 | pb avec pince : on n'arrive plus à la fermer |
| 8/30/21 | 10:28 | Canyon de Lampaul | N 47 36.695 | W 007 32.154 | 787 | debut calibration pince |
| 8/30/21 | 10:28 | Canyon de Lampaul | N 47 36.695 | W 007 32.154 | 787 | toujours pb pince |
| 8/30/21 | 10:31 | Canyon de Lampaul | N 47 36.695 | W 007 32.154 | 787 | pince ok |
| 8/30/21 | 10:33 | Canyon de Lampaul | N 47 36.695 | W 007 32.153 | 787 | on tente quand meme aspi |
| 8/30/21 | 10:34 | Canyon de Lampaul | N 47 36.695 | W 007 32.153 | 787 | purge bol 1 |
| 8/30/21 | 10:36 | Canyon de | N 47 | W 007 | 787 | pince a lache aspi |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 36.695 | 32.154 | | |
| 8/30/21 | 10:37 | Canyon de Lampaul | N 47 36.695 | W 007 32.154 | 787 | pince a cassé, pas possible d'aspirer ou prelever |
| 8/30/21 | 10:37 | Canyon de Lampaul | N 47 36.695 | W 007 32.154 | 787 | pince perdue au fond |
| 8/30/21 | 10:44 | Canyon de Lampaul | N 47 36.696 | W 007 32.152 | 788 | pince recupérée, mise dans panier |
| 8/30/21 | 10:46 | Canyon de Lampaul | N 47 36.695 | W 007 32.152 | 788 | tuyau replié, embout posé sur bras gauche |
| 8/30/21 | 10:47 | Canyon de Lampaul | N 47 36.695 | W 007 32.152 | 788 | tuyau bloqué avec bras, securise pour déplacement |
| 8/30/21 | 10:48 | Canyon de Lampaul | N 47 36.695 | W 007 32.152 | 787 | depart pour mosaique falaise |
| 8/30/21 | 10:52 | Canyon de Lampaul | N 47 36.710 | W 007 32.116 | 785 | pleine eau, arret acquisition photos |
| 8/30/21 | 10:55 | Canyon de Lampaul | N 47 36.721 | W 007 32.090 | 786 | changement de quart Catherine et Julie |
| 8/30/21 | 11:08 | Canyon de Lampaul | N 47 36.727 | W 007 32.045 | 913 | on arrive au fond pour demarrer mosaique, frequence acquisition APN=3sec, tilt = 20 degres, distance de la paroi = 4m |
| 8/30/21 | 11:17 | Canyon de Lampaul | N 47 36.718 | W 007 32.042 | 913 | on se positionne proche de l'arete |
| 8/30/21 | 11:18 | Canyon de Lampaul | N 47 36.719 | W 007 32.042 | 913 | debut de profil vertical 1 |
| 8/30/21 | 11:19 | Canyon de Lampaul | N 47 36.718 | W 007 32.046 | 910 | CORAIL isole |
| 8/30/21 | 11:20 | Canyon de Lampaul | N 47 36.718 | W 007 32.049 | 906 | CORAIL dense mort et vivant |
| 8/30/21 | 11:20 | Canyon de Lampaul | N 47 36.718 | W 007 32.050 | 904 | marche |
| 8/30/21 | 11:20 | Canyon de Lampaul | N 47 36.718 | W 007 32.051 | 903 | huitres et CORAIL peu dense |
| 8/30/21 | 11:21 | Canyon de Lampaul | N 47 36.719 | W 007 32.052 | 894 | CORAIL Leiopathes |
| 8/30/21 | 11:24 | Canyon de Lampaul | N 47 36.719 | W 007 32.064 | 880 | CORAIL peu dense |
| 8/30/21 | 11:25 | Canyon de Lampaul | N 47 36.720 | W 007 32.072 | 873 | DECHET filet |
| 8/30/21 | 11:30 | Canyon de Lampaul | N 47 36.715 | W 007 32.112 | 835 | CORAIL dense mort et vivant |
| 8/30/21 | 11:34 | Canyon de | N 47 | W 007 | 807 | eperon avec grosses colonies CORAIL |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|---------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 36.716 | 32.138 | | |
| 8/30/21 | 11:36 | Canyon de Lampaul | N 47 36.714 | W 007 32.142 | 796 | CORAIL belles colonies |
| 8/30/21 | 11:38 | Canyon de Lampaul | N 47 36.709 | W 007 32.150 | 783 | beau poisson |
| 8/30/21 | 11:40 | Canyon de Lampaul | N 47 36.702 | W 007 32.162 | 779 | fin de profil vertical 1 |
| 8/30/21 | 11:43 | Canyon de Lampaul | N 47 36.720 | W 007 32.155 | 774 | stop apn |
| 8/30/21 | 12:02 | Canyon de Lampaul | N 47 36.720 | W 007 32.047 | 907 | apn on |
| 8/30/21 | 12:03 | Canyon de Lampaul | N 47 36.720 | W 007 32.043 | 917 | CORAIL belles colonies |
| 8/30/21 | 12:04 | Canyon de Lampaul | N 47 36.719 | W 007 32.041 | 916 | debut de profil vertical 2, frequence acquisition APN=2sec |
| 8/30/21 | 12:06 | Canyon de Lampaul | N 47 36.719 | W 007 32.046 | 912 | paroi nue, CORAIL belles colonies sur l'arete |
| 8/30/21 | 12:07 | Canyon de Lampaul | N 47 36.718 | W 007 32.051 | 903 | CORAIL dense mort et vivant, marche, huitres |
| 8/30/21 | 12:08 | Canyon de Lampaul | N 47 36.718 | W 007 32.053 | 893 | CORAIL belle colonie, Leiopathes, oursins Cidaridae |
| 8/30/21 | 12:12 | Canyon de Lampaul | N 47 36.710 | W 007 32.093 | 852 | DECHET filet |
| 8/30/21 | 12:12 | Canyon de Lampaul | N 47 36.710 | W 007 32.098 | 847 | CORAIL |
| 8/30/21 | 12:18 | Canyon de Lampaul | N 47 36.709 | W 007 32.137 | 796 | on arrive sur le rebord |
| 8/30/21 | 12:20 | Canyon de Lampaul | N 47 36.710 | W 007 32.149 | 782 | fin de profil vertical 2 |
| 8/30/21 | 12:25 | Canyon de Lampaul | N 47 36.699 | W 007 32.178 | 778 | vessie de Danton toujours collapsée |
| 8/30/21 | 12:27 | Canyon de Lampaul | N 47 36.698 | W 007 32.183 | 778 | vessie de Corday toujours collapsée également |
| 8/30/21 | 12:28 | Canyon de Lampaul | N 47 36.700 | W 007 32.178 | 777 | fin inspection MARLEY |
| 8/30/21 | 12:30 | Canyon de Lampaul | N 47 36.704 | W 007 32.174 | 768 | fin de plongee |
| 8/30/21 | 12:30 | Canyon de Lampaul | N 47 36.706 | W 007 32.173 | 764 | depart fond |

6.20. Dive: 218 - 21

Date: **04/09/2021**

Observer(s):

| Date | Time: | Observer(s): |
|------------|-------|---|
| 04/09/2021 | 07:00 | Lartaud Franck, Tourolle Julie, Chemel Mathilde, Moreau Bertrand, Lagadec Jean-Romain, Bacher Alan, Menot Lénaïck |

Station: **Canyon de Lampaul**

Submersible: **Ariane**

Latitude: **N 47 40.553**

Longitude: **W 007 37.137**

Prospected locations **Canyon de Lampaul**

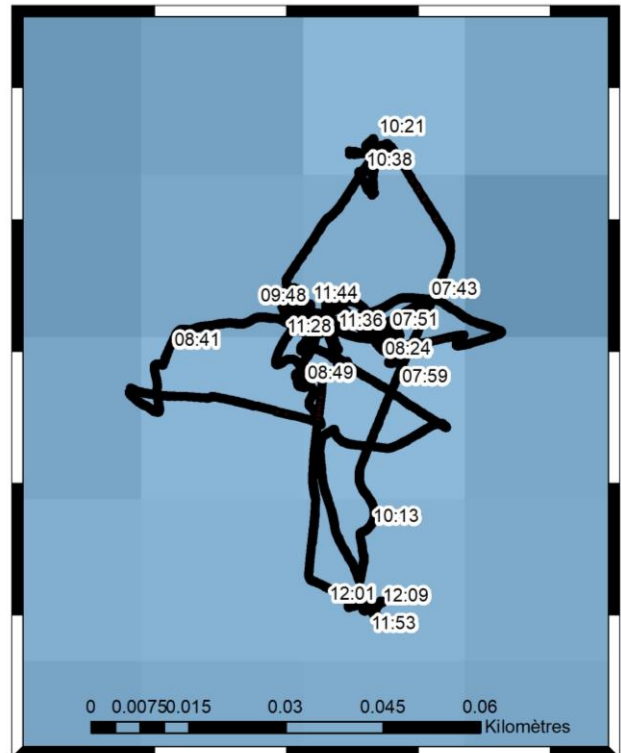
6.20.1. Objectives

Weighting of the MARLEY observatory and deployment of the camera module. *Madrepora* and *Lophelia* sampling.

6.20.2. Work abstract

- 12 Sample operations
- 0 Measures
- 0 Moorings
- 168 Images

6.20.3. Map



6.20.4. Operation list

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|-------------------|----------------|-----------------|----------|---|
| 9/4/21 | 07:03 | Canyon de Lampaul | N 47 36.567 | W 007 32.407 | 22 | debut de descente |
| 9/4/21 | 07:13 | Canyon de Lampaul | N 47 36.654 | W 007 32.207 | 298 | wifi demarre |
| 9/4/21 | 07:31 | Canyon de Lampaul | N 47 36.697 | W 007 32.136 | 710 | pesee |
| 9/4/21 | 07:34 | Canyon de Lampaul | N 47 36.694 | W 007 32.152 | 710 | declampage |
| 9/4/21 | 07:42 | Canyon de Lampaul | N 47 36.698 | W 007 32.165 | 778 | station en vue et lests visibles |
| 9/4/21 | 07:44 | Canyon de Lampaul | N 47 36.695 | W 007 32.172 | 777 | visuels sur 3 lests |
| 9/4/21 | 07:46 | Canyon de Lampaul | N 47 36.695 | W 007 32.172 | 779 | début récup lest |
| 9/4/21 | 07:51 | Canyon de Lampaul | N 47 36.695 | W 007 32.176 | 775 | panne snapshot pdt quelques minutes. transport 1er lest vers station |
| 9/4/21 | 07:54 | Canyon de Lampaul | N 47 36.695 | W 007 32.179 | 777 | la station bouge |
| 9/4/21 | 07:54 | Canyon de | N 47 | W 007 | 777 | 1er lest posé |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|-------------------|----------------|-----------------|----------|---|
| | | Lampaul | 36.695 | 32.179 | | |
| 9/4/21 | 07:54 | Canyon de Lampaul | N 47 36.695 | W 007 32.179 | 775 | en route pour aller chercher le deuxième |
| 9/4/21 | 07:58 | Canyon de Lampaul | N 47 36.694 | W 007 32.161 | 768 | en chemin vers le dexième lest |
| 9/4/21 | 07:59 | Canyon de Lampaul | N 47 36.694 | W 007 32.169 | 772 | lests en vue |
| 9/4/21 | 08:00 | Canyon de Lampaul | N 47 36.693 | W 007 32.171 | 779 | début préhension deuxième |
| 9/4/21 | 08:01 | Canyon de Lampaul | N 47 36.693 | W 007 32.171 | 779 | préhension 2eme lest OK |
| 9/4/21 | 08:02 | Canyon de Lampaul | N 47 36.693 | W 007 32.171 | 778 | début parcours vers station. direction à coté du piège à particule |
| 9/4/21 | 08:03 | Canyon de Lampaul | N 47 36.696 | W 007 32.178 | 777 | arrivée zone de dépose |
| 9/4/21 | 08:04 | Canyon de Lampaul | N 47 36.697 | W 007 32.178 | 777 | dépose avortée. on reprend |
| 9/4/21 | 08:05 | Canyon de Lampaul | N 47 36.696 | W 007 32.179 | 777 | nouvelle préhension |
| 9/4/21 | 08:06 | Canyon de Lampaul | N 47 36.696 | W 007 32.179 | 777 | manoeuvre en cours pour redépose |
| 9/4/21 | 08:09 | Canyon de Lampaul | N 47 36.696 | W 007 32.179 | 777 | repréhension |
| 9/4/21 | 08:10 | Canyon de Lampaul | N 47 36.696 | W 007 32.179 | 777 | préhension ok |
| 9/4/21 | 08:12 | Canyon de Lampaul | N 47 36.697 | W 007 32.179 | 777 | nouvelle préhension dans une meilleure position |
| 9/4/21 | 08:13 | Canyon de Lampaul | N 47 36.697 | W 007 32.178 | 777 | crochet a du mal a rentrer. on prefere le mettre dans le trou du tube |
| 9/4/21 | 08:15 | Canyon de Lampaul | N 47 36.697 | W 007 32.178 | 777 | pas encore bien positionnée. nouvelle préhension en cours |
| 9/4/21 | 08:16 | Canyon de Lampaul | N 47 36.697 | W 007 32.178 | 777 | repréhension |
| 9/4/21 | 08:18 | Canyon de Lampaul | N 47 36.697 | W 007 32.178 | 777 | cette fois c'est bon |
| 9/4/21 | 08:19 | Canyon de Lampaul | N 47 36.697 | W 007 32.176 | 775 | Transit vers 3eme lest |
| 9/4/21 | 08:19 | Canyon de Lampaul | N 47 36.695 | W 007 32.173 | 775 | vue station avec deux lests posés |
| 9/4/21 | 08:20 | Canyon de Lampaul | N 47 36.693 | W 007 32.171 | 777 | 3eme lest en vue |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|-------------------|----------------|-----------------|----------|--|
| 9/4/21 | 08:21 | Canyon de Lampaul | N 47 36.693 | W 007 32.171 | 779 | début préhension du 3eme lest |
| 9/4/21 | 08:23 | Canyon de Lampaul | N 47 36.693 | W 007 32.172 | 779 | préhension 3ème lest OK |
| 9/4/21 | 08:24 | Canyon de Lampaul | N 47 36.694 | W 007 32.172 | 778 | début transit vers station |
| 9/4/21 | 08:24 | Canyon de Lampaul | N 47 36.694 | W 007 32.176 | 776 | transit en cours pour dépose 3ème |
| 9/4/21 | 08:25 | Canyon de Lampaul | N 47 36.695 | W 007 32.179 | 776 | Jean Romain propose de mettre dans le trou |
| 9/4/21 | 08:25 | Canyon de Lampaul | N 47 36.695 | W 007 32.180 | 777 | on s'approche |
| 9/4/21 | 08:26 | Canyon de Lampaul | N 47 36.695 | W 007 32.180 | 777 | début dépose du 3ème lest dans le trou |
| 9/4/21 | 08:27 | Canyon de Lampaul | N 47 36.696 | W 007 32.180 | 777 | 3eme lest dépose OK |
| 9/4/21 | 08:27 | Canyon de Lampaul | N 47 36.695 | W 007 32.180 | 777 | transit vers 4ème lest |
| 9/4/21 | 08:29 | Canyon de Lampaul | N 47 36.692 | W 007 32.178 | 777 | vue sur 4ème lest tout près de la station |
| 9/4/21 | 08:31 | Canyon de Lampaul | N 47 36.692 | W 007 32.177 | 778 | préhension du 4ème en cours |
| 9/4/21 | 08:32 | Canyon de Lampaul | N 47 36.692 | W 007 32.177 | 778 | préhension 4ème lest OK |
| 9/4/21 | 08:33 | Canyon de Lampaul | N 47 36.692 | W 007 32.177 | 778 | début transit vers station |
| 9/4/21 | 08:33 | Canyon de Lampaul | N 47 36.692 | W 007 32.178 | 776 | direction tube de gauche |
| 9/4/21 | 08:34 | Canyon de Lampaul | N 47 36.693 | W 007 32.182 | 776 | Transit en cours |
| 9/4/21 | 08:35 | Canyon de Lampaul | N 47 36.695 | W 007 32.182 | 776 | arrivée sur zone pour préhension |
| 9/4/21 | 08:36 | Canyon de Lampaul | N 47 36.695 | W 007 32.182 | 777 | préhension en cours |
| 9/4/21 | 08:37 | Canyon de Lampaul | N 47 36.695 | W 007 32.182 | 777 | on se décale pour meilleur visuel |
| 9/4/21 | 08:37 | Canyon de Lampaul | N 47 36.695 | W 007 32.182 | 777 | dépose du 4ème lest OK |
| 9/4/21 | 08:38 | Canyon de Lampaul | N 47 36.695 | W 007 32.184 | 768 | transit vers le 5ème |
| 9/4/21 | 08:39 | Canyon de | N 47 | W 007 | 772 | recherche du 5eme |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|-------------------|----------------|-----------------|----------|--|
| | | Lampaul | 36.695 | 32.192 | | |
| 9/4/21 | 08:43 | Canyon de Lampaul | N 47 36.690 | W 007 32.203 | 766 | toujours recherche du 5eme lest |
| 9/4/21 | 08:45 | Canyon de Lampaul | N 47 36.687 | W 007 32.180 | 773 | 5eme lest en vue |
| 9/4/21 | 08:48 | Canyon de Lampaul | N 47 36.690 | W 007 32.183 | 777 | Début préhension 5ème lest |
| 9/4/21 | 08:49 | Canyon de Lampaul | N 47 36.690 | W 007 32.183 | 777 | direction à droite pour dépose sur la barre |
| 9/4/21 | 08:49 | Canyon de Lampaul | N 47 36.690 | W 007 32.183 | 777 | transit vers station avec 5eme lest |
| 9/4/21 | 08:50 | Canyon de Lampaul | N 47 36.694 | W 007 32.181 | 777 | en approche pour dépose |
| 9/4/21 | 08:51 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | Dépose en cours du 5ème lest |
| 9/4/21 | 08:52 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | rotation du bras necessaire |
| 9/4/21 | 08:54 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | Dépose du 5eme lest OK |
| 9/4/21 | 08:55 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | C'est parti pour le déploiement du module caméra |
| 9/4/21 | 08:55 | Canyon de Lampaul | N 47 36.697 | W 007 32.183 | 774 | station vue de dessus |
| 9/4/21 | 08:58 | Canyon de Lampaul | N 47 36.697 | W 007 32.183 | 777 | préhension du flotteur de gauche |
| 9/4/21 | 08:59 | Canyon de Lampaul | N 47 36.697 | W 007 32.183 | 777 | début préhension |
| 9/4/21 | 09:01 | Canyon de Lampaul | N 47 36.697 | W 007 32.183 | 777 | Récupération du verrouilleur de tilt OK |
| 9/4/21 | 09:01 | Canyon de Lampaul | N 47 36.697 | W 007 32.183 | 777 | Mise en place du verrouilleur dans le panier |
| 9/4/21 | 09:02 | Canyon de Lampaul | N 47 36.697 | W 007 32.183 | 777 | dépose ok dans le panier |
| 9/4/21 | 09:04 | Canyon de Lampaul | N 47 36.697 | W 007 32.184 | 777 | préhension du flotteur de préhension principal pour casser les bouts |
| 9/4/21 | 09:04 | Canyon de Lampaul | N 47 36.697 | W 007 32.184 | 777 | préhension parfaite. |
| 9/4/21 | 09:05 | Canyon de Lampaul | N 47 36.697 | W 007 32.184 | 777 | On déverrouille devant. dans n'importe quel sens |
| 9/4/21 | 09:05 | Canyon de Lampaul | N 47 36.697 | W 007 32.184 | 777 | début préhension poignée de déverrouillage |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|-------------------|----------------|-----------------|----------|---|
| 9/4/21 | 09:05 | Canyon de Lampaul | N 47 36.697 | W 007 32.184 | 777 | déverrouillage OK |
| 9/4/21 | 09:06 | Canyon de Lampaul | N 47 36.697 | W 007 32.185 | 774 | Direction derrière le module pour déverrouiller la deuxième poignée |
| 9/4/21 | 09:08 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | début préhension de la deuxième poignée |
| 9/4/21 | 09:09 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | déverrouillé deuxième poignée |
| 9/4/21 | 09:09 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | déverrouillage OK |
| 9/4/21 | 09:10 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | déverrouillage cable flotteur de droite |
| 9/4/21 | 09:11 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | pour le déverrouillage de gauche, le flotteur est coincé derrière. |
| 9/4/21 | 09:12 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | la languette en plastique peut être pivotée à 180°. on tente |
| 9/4/21 | 09:13 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | préhension de la languette en cours |
| 9/4/21 | 09:16 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | rotation en cours. tentative de préhension flotteur ou élastique |
| 9/4/21 | 09:17 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | flotteur débloqué |
| 9/4/21 | 09:18 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | préhension |
| 9/4/21 | 09:19 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | il faut faire faire un tour dans le sens horaire du flotteur pour demeler |
| 9/4/21 | 09:22 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | des difficultés |
| 9/4/21 | 09:25 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | préhension flotteur |
| 9/4/21 | 09:26 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | on tire. ca ne débloque pas |
| 9/4/21 | 09:27 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | ca ne fonctionne pas. On décide de déplacer le module caméra pour un meilleur accès et couper |
| 9/4/21 | 09:28 | Canyon de Lampaul | N 47 36.696 | W 007 32.182 | 777 | Préhension module caméra |
| 9/4/21 | 09:29 | Canyon de Lampaul | N 47 36.696 | W 007 32.182 | 777 | préhension et déplacement en cours |
| 9/4/21 | 09:30 | Canyon de Lampaul | N 47 36.695 | W 007 32.182 | 776 | déplacement en cours. positionnement devant l'enrouleur |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
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| 9/4/21 | 09:32 | Canyon de Lampaul | N 47 36.695 | W 007 32.183 | 777 | dépose OK |
| 9/4/21 | 09:32 | Canyon de Lampaul | N 47 36.696 | W 007 32.185 | 774 | On sort se repositionner sur le coté et on sort le couteau |
| 9/4/21 | 09:37 | Canyon de Lampaul | N 47 36.696 | W 007 32.182 | 777 | début coupure avec crete de coq |
| 9/4/21 | 09:38 | Canyon de Lampaul | N 47 36.696 | W 007 32.182 | 777 | coupure en cours |
| 9/4/21 | 09:38 | Canyon de Lampaul | N 47 36.696 | W 007 32.182 | 777 | coupure toujours en cours |
| 9/4/21 | 09:42 | Canyon de Lampaul | N 47 36.696 | W 007 32.183 | 775 | toujours pas coupé. On retente le coup |
| 9/4/21 | 09:49 | Canyon de Lampaul | N 47 36.697 | W 007 32.182 | 777 | nouvelle préhension flotteur infructueuse |
| 9/4/21 | 09:52 | Canyon de Lampaul | N 47 36.697 | W 007 32.182 | 777 | on décide de couper |
| 9/4/21 | 09:54 | Canyon de Lampaul | N 47 36.697 | W 007 32.183 | 777 | tentative de préhension du sandow |
| 9/4/21 | 09:55 | Canyon de Lampaul | N 47 36.696 | W 007 32.183 | 777 | on fait décaler le cable |
| 9/4/21 | 09:56 | Canyon de Lampaul | N 47 36.696 | W 007 32.183 | 777 | préhension sandow ok |
| 9/4/21 | 09:57 | Canyon de Lampaul | N 47 36.696 | W 007 32.183 | 777 | relaché!!! |
| 9/4/21 | 09:57 | Canyon de Lampaul | N 47 36.696 | W 007 32.183 | 777 | le flotteur est resté coincé |
| 9/4/21 | 09:58 | Canyon de Lampaul | N 47 36.696 | W 007 32.183 | 777 | flotteur décoincé. tout est relaché |
| 9/4/21 | 09:58 | Canyon de Lampaul | N 47 36.696 | W 007 32.184 | 775 | Module caméra prêt à être déployé |
| 9/4/21 | 10:00 | Canyon de Lampaul | N 47 36.695 | W 007 32.180 | 776 | début préhension par le flotteur |
| 9/4/21 | 10:02 | Canyon de Lampaul | N 47 36.695 | W 007 32.180 | 778 | préhension module OK. transit en marche arrière |
| 9/4/21 | 10:02 | Canyon de Lampaul | N 47 36.695 | W 007 32.180 | 777 | Direction point "caméra MarHa" |
| 9/4/21 | 10:03 | Canyon de Lampaul | N 47 36.693 | W 007 32.179 | 776 | module a laché |
| 9/4/21 | 10:06 | Canyon de Lampaul | N 47 36.693 | W 007 32.179 | 778 | on attrape flotteur module camera |
| 9/4/21 | 10:09 | Canyon de | N 47 | W 007 | 776 | on deplace module camera |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
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| | | Lampaul | 36.685 | 32.172 | | |
| 9/4/21 | 10:11 | Canyon de Lampaul | N 47 36.677 | W 007 32.178 | 769 | on detend tout le cable : ok |
| 9/4/21 | 10:13 | Canyon de Lampaul | N 47 36.685 | W 007 32.175 | 775 | en route vers site deploiement module camera |
| 9/4/21 | 10:14 | Canyon de Lampaul | N 47 36.700 | W 007 32.165 | 775 | on passe la marche |
| 9/4/21 | 10:15 | Canyon de Lampaul | N 47 36.707 | W 007 32.169 | 775 | arrivee sur zone de jardin de coraux |
| 9/4/21 | 10:17 | Canyon de Lampaul | N 47 36.709 | W 007 32.173 | 775 | on va poser camera |
| 9/4/21 | 10:18 | Canyon de Lampaul | N 47 36.709 | W 007 32.172 | 776 | il faut tourner le module |
| 9/4/21 | 10:20 | Canyon de Lampaul | N 47 36.709 | W 007 32.172 | 775 | camera posee dans jardin de coraux mais mal orientee |
| 9/4/21 | 10:29 | Canyon de Lampaul | N 47 36.709 | W 007 32.173 | 777 | on redeplice module camera |
| 9/4/21 | 10:32 | Canyon de Lampaul | N 47 36.706 | W 007 32.174 | 776 | la camera tourne... |
| 9/4/21 | 10:32 | Canyon de Lampaul | N 47 36.706 | W 007 32.174 | 776 | on doit etre positionne a 1.5m de la colonie |
| 9/4/21 | 10:34 | Canyon de Lampaul | N 47 36.707 | W 007 32.175 | 776 | difficile de la mettre dans le bon axe |
| 9/4/21 | 10:35 | Canyon de Lampaul | N 47 36.707 | W 007 32.175 | 777 | le cable est sous le module |
| 9/4/21 | 10:37 | Canyon de Lampaul | N 47 36.707 | W 007 32.176 | 777 | manip a deux bras |
| 9/4/21 | 10:38 | Canyon de Lampaul | N 47 36.707 | W 007 32.176 | 777 | camera est dans l'axe mais cable dessous |
| 9/4/21 | 10:39 | Canyon de Lampaul | N 47 36.708 | W 007 32.175 | 777 | camera positionne |
| 9/4/21 | 10:40 | Canyon de Lampaul | N 47 36.708 | W 007 32.174 | 777 | on appuie sur module |
| 9/4/21 | 10:41 | Canyon de Lampaul | N 47 36.708 | W 007 32.174 | 777 | POSE Camera Marley |
| 9/4/21 | 10:41 | Canyon de Lampaul | N 47 36.708 | W 007 32.174 | 777 | camera ok |
| 9/4/21 | 10:42 | Canyon de Lampaul | N 47 36.709 | W 007 32.174 | 775 | on se dirige vers station |
| 9/4/21 | 10:44 | Canyon de Lampaul | N 47 36.699 | W 007 32.184 | 775 | on arrive près station pour se connecter |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
|--------|-------|-------------------|----------------|-----------------|----------|---|
| 9/4/21 | 10:45 | Canyon de Lampaul | N 47 36.696 | W 007 32.183 | 776 | on va se poser a cote MARLEY |
| 9/4/21 | 10:46 | Canyon de Lampaul | N 47 36.696 | W 007 32.182 | 776 | on sort connecteur wifi |
| 9/4/21 | 10:47 | Canyon de Lampaul | N 47 36.696 | W 007 32.182 | 778 | on est pose |
| 9/4/21 | 10:48 | Canyon de Lampaul | N 47 36.696 | W 007 32.182 | 778 | on deploie connecteur |
| 9/4/21 | 10:49 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 778 | connecteur positionne |
| 9/4/21 | 10:51 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 777 | connecteur positionne, wifi ok |
| 9/4/21 | 10:52 | Canyon de Lampaul | N 47 36.696 | W 007 32.181 | 778 | contact etabli avec MARLEY |
| 9/4/21 | 10:53 | Canyon de Lampaul | N 47 36.695 | W 007 32.181 | 778 | verification que tout fonctionne |
| 9/4/21 | 10:56 | Canyon de Lampaul | N 47 36.696 | W 007 32.180 | 778 | HROV s'accroche a MARLEY avec bras 5 fonctions |
| 9/4/21 | 10:57 | Canyon de Lampaul | N 47 36.696 | W 007 32.180 | 778 | reglage camera |
| 9/4/21 | 11:13 | Canyon de Lampaul | N 47 36.697 | W 007 32.179 | 778 | on voit RANCH |
| 9/4/21 | 11:14 | Canyon de Lampaul | N 47 36.697 | W 007 32.179 | 778 | configuration zoom ok |
| 9/4/21 | 11:16 | Canyon de Lampaul | N 47 36.697 | W 007 32.179 | 778 | configuration camera ok |
| 9/4/21 | 11:22 | Canyon de Lampaul | N 47 36.696 | W 007 32.180 | 778 | vue sur le module camera |
| 9/4/21 | 11:22 | Canyon de Lampaul | N 47 36.696 | W 007 32.180 | 778 | 4 sequences de 3 min et 1 sequence de maniere aleatoire |
| 9/4/21 | 11:29 | Canyon de Lampaul | N 47 36.697 | W 007 32.179 | 778 | bob est cache derriere le ballast |
| 9/4/21 | 11:32 | Canyon de Lampaul | N 47 36.696 | W 007 32.180 | 778 | on deconnecte connecteur |
| 9/4/21 | 11:39 | Canyon de Lampaul | N 47 36.697 | W 007 32.179 | 778 | connecteur dans panier |
| 9/4/21 | 11:43 | Canyon de Lampaul | N 47 36.696 | W 007 32.180 | 777 | pb pour fermer panier |
| 9/4/21 | 11:43 | Canyon de Lampaul | N 47 36.696 | W 007 32.180 | 777 | depart pour prelevements |
| 9/4/21 | 11:50 | Canyon de | N 47 | W 007 | 779 | pb fibre, mais essai prelevement |

| Date | Time | Location | Latitude | Longitude | Depth(m) | Comment |
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| | | Lampaul | 36.673 | 32.176 | | |
| 9/4/21 | 11:52 | Canyon de Lampaul | N 47 36.673 | W 007 32.175 | 779 | en position pour prelever |
| 9/4/21 | 11:53 | Canyon de Lampaul | N 47 36.672 | W 007 32.175 | 780 | PRELEVEMEN CB-B_Madrepo |
| 9/4/21 | 11:54 | Canyon de Lampaul | N 47 36.672 | W 007 32.175 | 780 | PRELEVEMEN CB-B_Madrepo |
| 9/4/21 | 11:55 | Canyon de Lampaul | N 47 36.672 | W 007 32.175 | 780 | PRELEVEMEN CB-D_MADRE |
| 9/4/21 | 11:57 | Canyon de Lampaul | N 47 36.672 | W 007 32.175 | 780 | PRELEVEMEN CB-D_MADRE |
| 9/4/21 | 11:59 | Canyon de Lampaul | N 47 36.672 | W 007 32.175 | 780 | PRELEVEMEN CB-A-bois_Mad 14 |
| 9/4/21 | 12:01 | Canyon de Lampaul | N 47 36.672 | W 007 32.175 | 780 | PRELEVEMEN CB-A-bois_Mad 14 |
| 9/4/21 | 12:03 | Canyon de Lampaul | N 47 36.672 | W 007 32.174 | 780 | tout dans CB-A bois |
| 9/4/21 | 12:05 | Canyon de Lampaul | N 47 36.673 | W 007 32.173 | 780 | position pour Lophelia |
| 9/4/21 | 12:05 | Canyon de Lampaul | N 47 36.673 | W 007 32.173 | 780 | attrapé |
| 9/4/21 | 12:06 | Canyon de Lampaul | N 47 36.673 | W 007 32.173 | 780 | PRELEVEMEN CB-B_Lophelia |
| 9/4/21 | 12:08 | Canyon de Lampaul | N 47 36.673 | W 007 32.173 | 780 | Madrepora attrapé |
| 9/4/21 | 12:09 | Canyon de Lampaul | N 47 36.673 | W 007 32.173 | 780 | PRELEVEMENT panier_Madrep 15 |
| 9/4/21 | 12:09 | Canyon de Lampaul | N 47 36.672 | W 007 32.174 | 776 | panier fermé, fin plongée |
| 9/4/21 | 12:09 | Canyon de Lampaul | N 47 36.672 | W 007 32.174 | 774 | pb TMS, coupure fibre |