



OHM' Review and projects – 2023-2024

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¹⁴ Director OHM Bassin minier de Provence, CEREGE, CNRS, Aix en Provence, France

News from OHMi Estarreja

The last 12 months

Jean-Philippe Bedell¹, Anabela Cachada², Carla Patinha³, Anne-Marie Guihard-Costa⁴, Eduardo Ferreira da Silva³



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News from OHM and DRIIHM

11^{ème} Séminaire OHMi-Estarreja (Aveiro le 16 et 17 novembre 2023)



11^º Colóquio do OHM-Estarreja / 11^º Séminaire OHM-Estarreja Departamento de Geociências, 16 e 17 novembro 2023

Programa Detalhado do Seminário / Programme du Séminaire Dia 16 de Novembro (Auditório do Departamento de Geociências)

14:30 – 14:40 - Abertura da sessão por Jean-Philippe Bedell e Eduardo Ferreira da Silva / Overture par Jean-Philippe Bedell et Eduardo Ferreira da Silva			
Apresentação dos resultados dos projetos financiados em 2022 / Présentation des principaux résultats des projets financés en 2022			
17/11	14h30 – 14:50	JP Bedell and colleagues	Project Inter-OHM ABATI Project : Airbone pollution by vegetation and tree samples biosensor in two constricted OHMi/human activities
	15h00 – 15h30	Yann Philippe Tastevin	Visioconférence The participatory dimension of air quality monitoring - Yann Philippe Tastevin (OHMi Téssekéré)
	15.30 – 15h50	Michael Rapinsk	Visioconférence Project Transverse Labex DRIIHM : SASI - Food systems under influence: food, health and the environment in OHMs
	16h00 – 16h20	Pausa para Café / Coffee Break	
	16h30 – 17h00	Nathalie El Deghel	Nathalie El Deghel : Understanding Chemical Contamination of Foods in five Human-Environment Observatories: Focus on Metallic Trace Elements and Persistent Organic Pollutants
	17h00 – 17h30	JP Bedell	Project Transverse Labex DRIIHM : HydecO Connections, disconnections and reconnections in socio-hydrosystems: Towards a better integration of the vertical dimension?
	17h50 – 18h00	R. Ordonneau Y. Breaudeau	Visibility and invisibility : uses, perceptions and issues of Estarreja's groundwater
	18h00 – 18h10	Encerramento da Sessão / Clôture du séminaire	

Dia 17 de Novembro (Auditório do Departamento de Geociências)

09h15 – 09:30 - Abertura da sessão por Jean-Philippe Bedell e Eduardo Ferreira da Silva / Overture par Jean-Philippe Bedell et Eduardo Ferreira da Silva				
Apresentação dos principais resultados dos projetos financiados em 2022 / Présentation des principaux résultats des projets financés en 2022				
17/11	09h30 – 09:50	OHM-E/2022/Proj.1	Marta Tacão	A farm-to-fork analysis of vegetables microbiological risks at Estarreja municipality: setting up a monitoring program for household farms
	10h00 – 10h20	OHM-E/2022/Proj.2	Flávio Silva	SAYFERT - Safety and effectiveness of Estarreja-based fertilizers under circular economy principles
	10h30 – 10h50	OHM-E/2022/Proj.3	Célia Alves	Schools Tackling Estarreja's Air Pollution (STEP)
	10h50 – 11h10	Pausa para Café / Coffee Break		
	11h10 – 11h30	OHM-E/2022/Proj.4	Sirine Bougera	2Improve: Boost the potential of resistant indigenous plant growth promoting rhizobacteria to improve crop productivity and soil quality in Estarreja and Baixo Vouga Lagunar affected agroecosystems.
	11h40 – 12h00	OHM-E/2022/Proj.5	Isabel Henriques	MICRANT: Microplastics in Estarreja rivers and their role in the spread of pathogens and antibiotic resistance
	12h00 – 12h20	OHM-E/2022/Proj.7	Hugo Vieira	Can I eat this fish? - Dietary recommendations to reduce the mercury risk exposure
13h00 -14h30 - Almoço				
Apresentação dos principais resultados dos projetos financiados em 2022 / Présentation des principaux résultats des projets financés en 2022				
17/11	14h30 – 14:50	OHM-E/2022/Proj.8	Isabel Lopes	CLEAR - Resorting to microbial Consortia to restore metal-contaminated soils for the area of EstArReja
	15h00 – 15h20	OHM-E/2022/Proj.9	Nuno Durães	TracEnviSoil - Tracing metal(Ioid) and rare earth elements contents in alluvial soils of Baixo Vouga Laguna: Origin, availability and environmental issues
	15.30 – 15h50	OHM-E/2022/Proj.10	Ana Rita Silva	TERRA - Climate change impacts in EstArReJA region
	16h00 – 16h15	Encerramento da Sessão / Clôture du séminaire		

Projets - participation

HYDECO

Connections, disconnections and reconnections in socio-hydrosystems:
Does (in)visibility make the difference?



OHMi Pima County – OHMi Estarreja – OHM Fessenheim – OHM Pyrénées Haut Vicdessos – OHM Littoral Méditerranéen –
OHMi Nunavik – OHM Vallée du Rhône

Post-doctoral Fellow : Anne-Lise Boyer



"Transversal projects" session

International Symposium of LabEx DRIIHM
Inter-Disciplinary Research Facility on Human-Environment Interactions - ANR-11-LABX-0010
June 20th-22th, 2022 – Nantes (France)

Appel à projets 2024/2025

12 projets déposés/reçus, 3 financés

1 projet Inter-OHM?



PEPR D'UNE STRATEGIE NATIONALE
APPEL À PROJETS
2023
PEPR SAMS

Systemes alimentaires sous influences :
alimentation, santé et environnement dans
les OHM - Projet Transverse SASI



Campagne terrain Téssekéré et Estarreja
Sols + Eau + Aliments

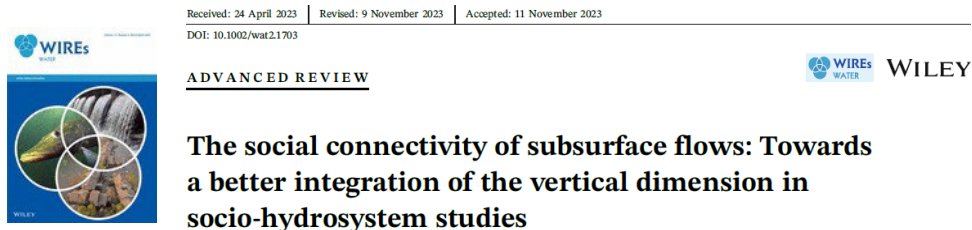
Participation au dépôt du projet MASCOT :

Maladies cardio-métaboliques, Alimentation, Santé, environnement et COntaminations : comparaisons interpopulationnelles

News from OHM and DRIIHM

International Symposium of LabEx DRIIHM
Inter-Disciplinary Research Facility on Human-Environment Interactions -ANR-11-LABX-0010
June 5th-7th, 2024 – Montpellier (France)

Articles



Anne-Lise Boyer^{1,2} | David Blanchon³ | Laurent Schmitt⁴ |
Dominique Badariotti⁴ | Jean-Philippe Bedell⁵ | Jean-Nicolas Beisel⁴ |
François Chabaux⁶ | Eduardo Ferreira da Silva⁷ | Frédéric Huneau⁸ |
Gwenaél Imfeld⁹ | Brian F. O'Neill¹⁰ | Vanina Pasqualini¹¹ |
Olivier Radakovitch¹² | Cybill Staentzel¹³ | François-Michel Le Tourneau¹⁴

Article commun HYDECO <https://doi.org/10.1002/wat2.1703>



Review

Local Food Systems under Global Influence: The Case of Food, Health and Environment in Five Socio-Ecosystems

Michael Rapinski^{1,*} | Richard Raymond¹ | Damien Davy² | Thora Herrmann^{3,4,5} | Jean-Philippe Bedell⁶ |
Abdou Ka⁷ | Guillaume Odonne² | Laine Chanteloup⁸ | Pascal Jean Lopez⁹ | Éric Foulquier¹⁰ |
Eduardo Ferreira da Silva¹¹ | Nathalie El Deghel⁶ | Gilles Boëtsch⁷ | Véronique Coxam¹² | Fabienne Joliet¹³ |
Anne-Marie Guihard-Costa¹⁴ | Laurence Tibère¹⁵ | Julie-Anne Nazare¹⁶ and Priscilla Duboz⁷

Article commun SASI <https://doi.org/10.3390/su15032376>

Ten years of the international Human-Environment Observatory of Estarreja: evolution and major achievements

Anabela Cachada¹, Carla Patinha², Jean-Philippe Bedell³, Anne-Marie Guihard-Costa⁴,
Eduardo F Silva²



During five decades, the liquid effluents from the Estarreja Chemical Complex (ECC) were discharged to the Ria de Aveiro lagoon or deposited in evaporation ponds, through open channels and pipelines. For this reason, this area has been intensely studied by the scientific community since the 90s of the last century. The first studies about the impact of the industrial activity in Estarreja were focused on the geochemical aspects of contamination, whereas studies regarding the relationship between industrial activities, populations and their health status, and biological ecosystems remained in an early state. The complexity of this system, together with the human-environment interactions issues, could only be approached through interdisciplinary inputs and contributions from social and health sciences. Thus, to enlarge the scope of the research carried out in Estarreja it was created, in March 2010, the OHMI-Estarreja – Observatoire Hommes-Milieux Estarreja International from the Labex DRIIHM-CNRS

(<https://ohm-estarreja.in2p3.fr/pt>). Indeed, since the creation of this observatory there was a shift in the focus of studies conducted, from geochemically based to the assessment of environmental and human health effects, reflected by the target matrix studied (Figure 1). Also, since the OHM establishment, different approaches have been considered (e.g.: spatial-temporal evolution of the contamination level; health studies of the population; societal changes in the area), allowing to better understand the risk induced by the ECC. The results obtained in the last 10 years clearly show that interdisciplinarity was a key factor to address this complex issue of human-environment interactions. Nevertheless, several knowledge gaps were identified (e.g.: toxic elements speciation, biological individual responses to contamination, particularities of family lifestyles) that can contribute to confirm or infirm this relationship between health, contamination and socio-ecosystem.

- 1 – CIMAR & Department of Biology, Faculty of Sciences, University of Porto.
- 2 – Department of Geosciences & GEOBIOTEC, University of Aveiro
- 3 – LEHNA, CNRS Ecole, Nationale des Travaux Publics de l'Etat, France.
- 4 – UMR & CNRS, Université Paris Cité, France.

FIGURE 1
Distribution of papers by matrix studied, published since 1989 until the OHM creation (before OHM) and during the last ten years (after OHM).

Research Summit 2023 (July 12 to 14), under the theme Inclusive, innovative and sustainable societies (Aveiro)

News from OHM and DRIIHM

International Symposium of LabEx DRIIHM
Inter-Disciplinary Research Facility on Human-Environment Interactions -ANR-11-LABX-0010
June 5th-7th, 2024 – Montpellier (France)

Stagiaires

Prix Poster Raphaël Ordonneau
Labex DRIIHM Strasbourg

2 Stagiaires Master:

SASI – Analyse des résultats des enquêtes sur les habitudes alimentaires menées à Estarreja

HYDECO – Analyse du sol et des eaux souterraines dans la zone sous l'influence du fossé - S. Filipe



Les puits : une connexion visible, de l'eau souterraine vers la population d'Estarreja



Participation au 11^{ème} Séminaire OHMi-Estarreja
(Raphaël Ordonneau et Yaouna Bretaudeau)

A venir:

Participation projets « Transverse » du 18 au 20 Novembre (Lyon)
12^{ème} séminaire de l'OHMi Estarreja octobre/novembre ? (Aveiro)

...

Merci de votre attention

News from OHM and DRIIHM



News from OHM « Caribbean coast »

Pascal-Jean Lopez
UMR BOREA, CNRS MNHN



News from OHM and DRIIHM



International Symposium of LabEx DRIIHM
Inter-Disciplinary Research Facility on Human-Environment Interactions - ANR-11-LABX-0010

June 5th-7th, 2024 - Montpellier (France)



Contributions to the Ecology Environment Biodiversity Week



Event in Guadeloupe (Tuesday, May 28)

Welcome Speeches :

- Stéphane Blanc : Dir. CNRS Ecologie et Environnement
- Corinne Pardo : RST du DRIIHM

Round table: **Food and territories, the French West Indies in a globalized world**

- Samuel Bates : Université des Antilles, UMR PHEEAC
- Yannick Boc : Agriculture, Communauté d'Agglomération du Nord Grande-Terre
- Frédéric Diser : Collectivité Territoriale de Martinique
- Sandrine Freguin-Gresh : CIRAD, UMR ART-Dev
- Manuel Gérard : IGUAFLHOR
- Richard Raymond : CNRS, UMR Eco-Anthropologie

Round table: **Protecting nature means preserving life**

- Jean-Raphaël Gros-Désormeaux : CNRS, UMR PHEEAC
- Nadine Vénuière : Parc Naturel Régional de la Martinique
- Séphora Badmer: Parc Naturel Marin de la Martinique
- Elsa Placide : Chargée de mission Patrimoine Mondial UNESCO
- Jean-Philippe Maréchal : Nova Blue Environnement

Event in Paris (Friday, May 31)

Thematic session: **Socio-environmental consequences of agricultural use and sargassum in the French West Indies: a look at the tiny world**

- Edwige Duclay : Directrice de projet en charge de la coordination du plan chlordercône IV placée auprès des ministères de la santé et des Outre-mer
- Pascal Jean Lopez : Chercheur CNRS au laboratoire Biologie des organismes et écosystèmes aquatiques (BOREA)

Round table: **Sharing maritime space**

- Jérôme Couvat : OFB, sanctuaire Agoa
- Eric Foulquier : UBO, UMR LETG Brest
- Ariane Graf : Cluster Maritime de Guadeloupe
- Mathieu Le Guern : Direction de la Mer, Guadeloupe
- Sophie Saint-Charles : Guadeloupe Port Caraïbes

Conclusion :

- Pascal Jean Lopez : CNRS, BOREA

Introducing the TRAFIC geo-visualization interface - Maritime Transport and Freight in the Caribbean

- Iwan Le Berre : UBO, UMR LETG Brest
- Eric Foulquier : UBO, UMR LETG Brest

Event Moderator :

- Sébastien Gilles : Reporter Guadeloupe la Première



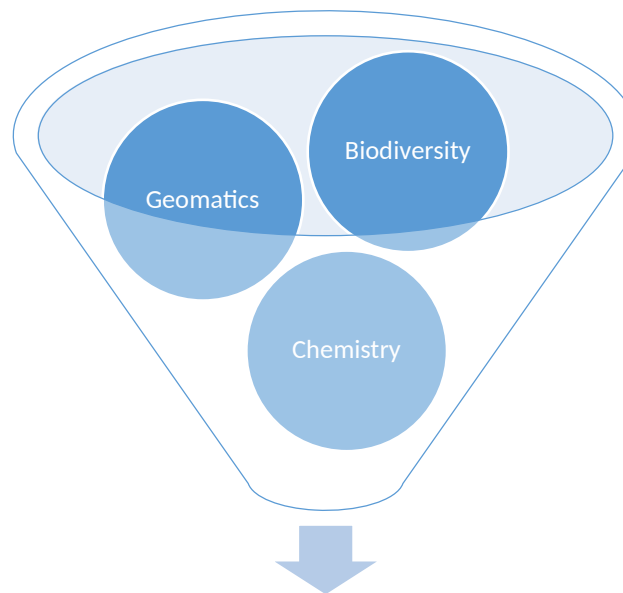
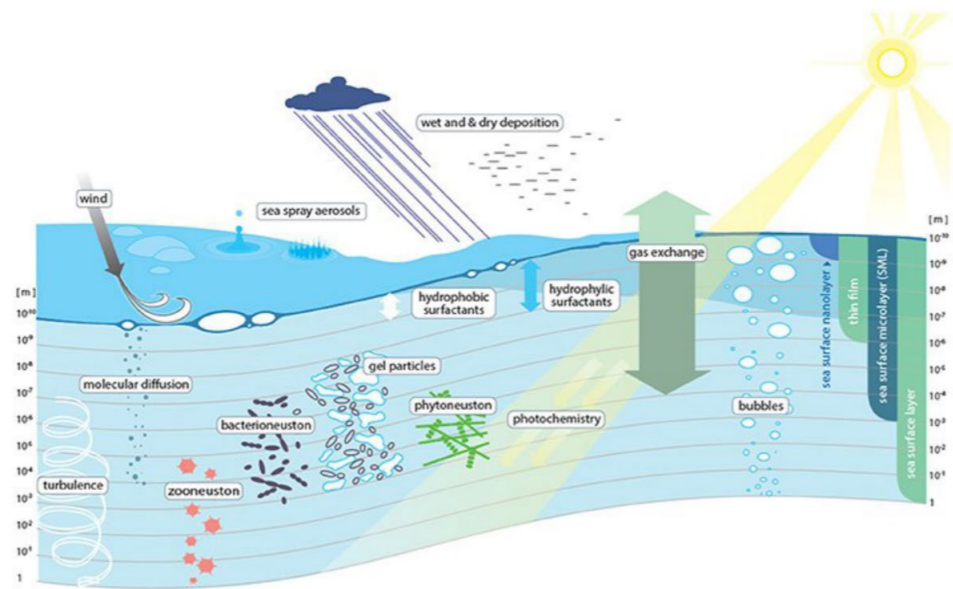
Ph.D.: Clémentin Deniau

Title: Impacts of maritime traffic on the composition and diversity of the marine surface microlayer in Guadeloupe's ports

Doctoral supervisors: Iwan Le Berre (LETG), Pascal Jean Lopez (BOREA)

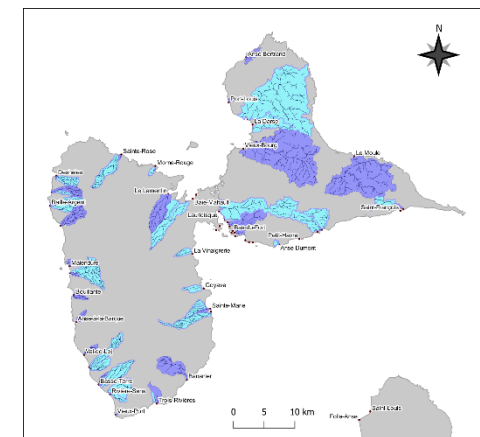
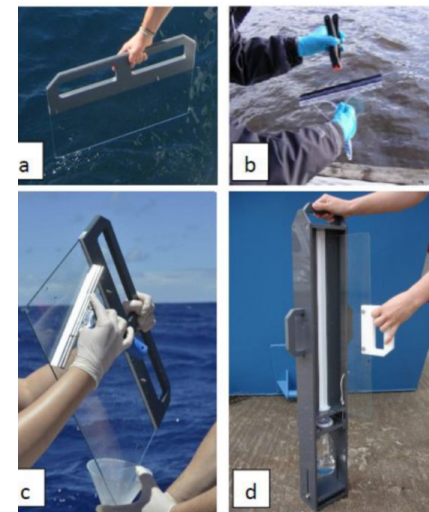
Collaboration: Stéphane Le Floch (CEDRE)

Funding: GDR OMER



A better understanding of the surface microlayer in harbors

Uppermost 1-1,000 μm of the surface water
Major roles on ocean - atmosphere interface
Deep connectivity between biological, chemical, and physical processes
One of the largest and most important interfaces on the planet (~71% of the Earth's surface)



OHMi Nunavik

Najat Bhiry^{1*}, Armelle Decaulne², Fabienne Joliet³, Didier Haillot⁴

¹Université Laval, Québec, Canada

²CNRS LETG, Nantes, France

³Institut Agro & CNRS ESO

Angers, France

⁴ÉTS, Montréal, Canada

- North Plan (2011) and Parnasimautik Plan (2014)
- 6 main interconnected projects:
 - NUNA from Nunavimmiut: Indigenous territories of Nunavik
 - SIQINIQ: energy aspects for the development of plant production facilities in Nunavik
 - MOVE: slope movements in Nunavik
 - U-SCAN: Umiujaq – System & ContaminANTS
 - TAKUJUQ: Virtual arts to promote research and community knowledges
 - Landscape changes documented by fauna presence



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News from OHM and DRIIHM

OHMi Nunavik

Summary of the years 2023-2024: main results

- Co-funding: IPEV, ANR InterArctic, SPI-Exporatory grant, Can-CRSNG, Can-CEN, etc.
- 6 publications in scientific journals: AAAR, Hydrol. Earth Syst. Sci, Socio-Anthropo, Sustainability, Arctic, Géomorphologie
- 2 publications for general public & 1 participatory video
- 12 student supervisions: 8 from France (master 1 & 2) & 4 from Canada (MSc thesis)
- Fieldworks in several villages (Umiujaq, Kangiqsualujjuaq, Kuujjuaq, Ivujivik, etc.)
- Part of transverse projects Hydecoc, Sasi & Energon
- Annual seminar in Dec. 4-5, 2023 at Ulaval, co funded by OHMi Nunavik, ULaval, CEN, Takuvik & Consulat de France à Québec

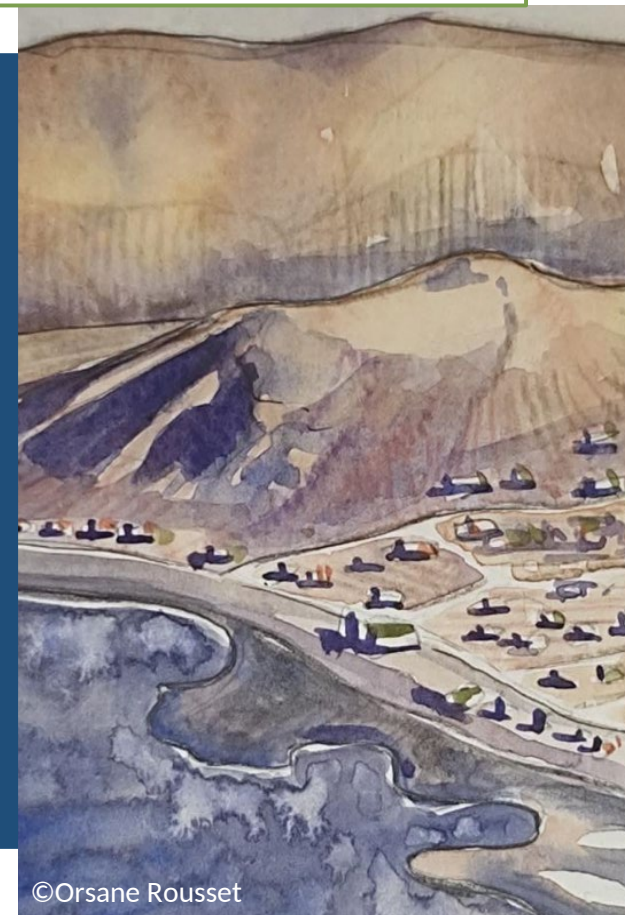


News from OHM and DRIIHM

OHMi Nunavik

2024-2025: objectives

- 6 projects successful to DRIIHM 2024-2025 project call, based on on-going research
- Co-funding 2024-2025 or 2024-2027:
 - (i) MITI “long-term monitoring” LATITUDE – acoustic bird signals in Nunavik & Nunavut – Godet et al.
 - (ii) MITI “long-term monitoring” UNROLL - Nunavik & its territorialities – Joliet et al.
 - (iii) KRG - Avalanches: Mapping and classification – Bhiry, Decaulne et al.
 - (iv) FRQNT-Team – EPAICA Project – Bhiry, Joliet et al.
- Fieldworks in summers and falls 2024-2025
- Supervision of students from France & Canada (including Inuit students)
- Publications of scientific & public-at-large papers
- Part of transverse projects HydecO, Sasi & Energon
- Annual seminar – OHMi Nunavik: October 24-25 at ÉTS, Montreal (Canada)



News from OHM and DRIIHM

News from Oyapock



Damien Davy, LEEISA

News from OHM and DRIIHM

In the field : mangles from the lower-Oyapock (may 2024)



OYAMANG : (Proisy et al.) : Lower Oyapock mangrove mapping

OYAMOUST (Collet et al.) : New insights about mosquitoes

EVOLUM (Letourneur, Pardo et al.) : Mangles in schools

About OHM's from Americas : Master of Inès Calvo

News from OHM and DRIIHM

New research : APR 2024

- **OYAMOUST : Communities of mosquitoes and Culicoides in mangroves on the lower Oyapock** (Collet M.)
- **OYAPÊCHE : Modes of circulation in coastal and estuarine artisanal fishing between East Guyana and Amapá in Brazil** (De Bollardière A.)
- **Monitoring the impact of human activities on faunal communities and frugivory in the Saint-Georges de l'Oyapock forest, French Guiana** (Guilbert et al.)
- **Study of the impact of human activities on insect communities in the Guyanese forest around Saint-Georges de l'Oyapock** (D'Haesse et al.)
- **Cross-border dynamics in French Guiana: typologies of interactions in the twin towns of the Oyapock basin** (Da Silva et al.)
- **RestiPl.oC : Restitution of the Pl.oC project - Analysis of lead concentration factors in cassava** (Odonne et al.)

News from OHM and DRIIHM



ESTACIÓN
PATAGONIA
UC



News from OHMi Patagonia – Bahía Exploradores

Alejandro Salazar-Burrows¹, Sabina Lemunao², José González³



¹Pontificia Universidad Católica de Chile, Santiago, Chile.

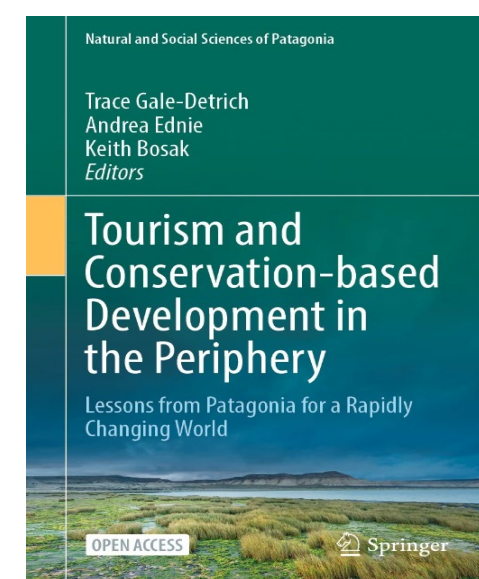
²Pontificia Universidad Católica de Chile, Santiago, Chile.

³Pontificia Universidad Católica de Chile, Santiago, Chile.

News from OHM and DRIIHM

Key results 2023

- Publication of book chapters
- Scientific poster presentations
- Research seminars
- masters and thesis presentations
- Participation in conferences and seminars



2024/2025 targets

- Strengthen links with the community and local and regional stakeholders.
- Maintain the attraction of new research lines and external collaborators.
- Maintain and generate joint projects with other centers and associated networks in the region.



News from OHM « Pays de Bitche »



Denis Mathis¹

¹LOTERR, Nancy, France.

News from OHM and DRIIHM

16 November 2023, 6th seminary of restitution, Petit-Réderching

Expression of interest for the project of a freely evolving forest in the northern Vosges mountains,

- Collaboration with the Francis Hallé association, the Acadie cooperative, PNRVN, Sturzelbronn...
- February-March, on-site contact with an M2 intern from the Acadie coop
- 13 June, working meeting on free evolution forest, large-scale and ecological transition in the Grand Est, Strasbourg (67).
- ERABLE project (?)

27-28 March, colloque “loger et déloger l’armée”, Nancy-Metz, (OC- Denis Mathis, Laurent Jalabert, Emmanuel Chiffre),

Collaboration with ZAM (Sylvie Dousset-Denis Mathis)

- 22-23 May, Collaboration with the Zone Atelier de Bassin de la Moselle (ZAM) - Presentation of the OHM and the activities of the OHM within ZAM (3 interventions),
- Project - Organization by the OHM of a seminar with the ZAM on the territory of Bitche (May 2025),

Registration of the OHM Pays de Bitche within the AMI "Contemporaneity(s) of heritage(s)" co-led by the University of Lorraine and the University of Cergy (6 OHM researchers),

Partnership with CC. Pays de Bitche, Moselle, Grand Est about the LM Simserhof (Tourism, UNESCO project???),

October 2024, Seminary « les territoires des savoir-faire », CIAV- Meisenthal, (OC- Aurélie Michel, Nadège Mariotti, Simon Edelblutte, Edith Fagnoni, Denis Mathis).



- *Le Pays de Bitche, un territoire en mutation*. Presses universitaires du Bitcherland, 2024, Fabien Hein, 979-10-415-3640-5. [10.34972/driihm-0c1118](https://doi.org/10.34972/driihm-0c1118). [hal-04500258](https://hal.archives-ouvertes.fr/hal-04500258)
- Promotion of the book *Le Pays de Bitche, Un territoire en mutation* (RL, DNA, Radio Mosaik Cristal, Radio Studio 1, conférences (Petit-Réderching, Sarreguemines, Achen...),
 - Participation of a dozen authors in the promotion of books within the territory,
 - Presentation of the project to the Military Governor of Metz and the Rector of the Academy of Nancy-Metz.

- Participation of the OHM in the scientific committee and in the drafting of the exhibition catalogue on the « vase à la carpe », Emile Gallé, Centre International des Arts Verriers (CIAV) of Meisenthal.



- Partnership with OHM, National Education, APHG and Army: 22 June 2024 and November 2024).
- Partnership with OHM, INSPE lorraine, the National Education and the Army: Army and Environment(s), (2024-2025).
- Partnership with the INSPE Sarreguemines for the implementation of the APR OHMi, (2025?)
- 2 thesis projects about “habitability of the territories of the Vosges massif” and “Little Town of Tomorrow” program



OHMi Pima County updates

Anne Sourdril¹, Larry Fisher², Adriana Zuniga³



¹CNRS, Ladyss, Nanterre, France.

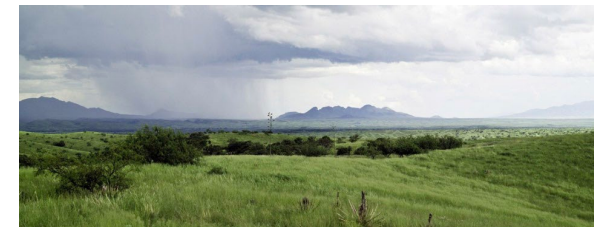
²University of Arizona, Tucson, USA.

³University of Arizona, Tucson, USA.

News from OHM and DRIIHM

OHMi Pima County - Updates 2023

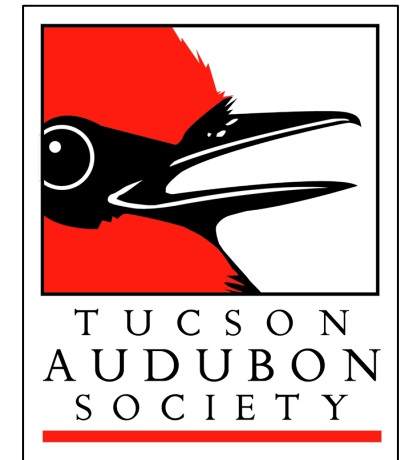
- **9 Ongoing projects** (including 2 cross-disciplinary projects)
- 4 peer-reviewed publications completed/published
- **2 films** produced by CNRS Images on current OHMi projects :
 - « Listen to the landscape of Arizona »
 - « To the Rescue of Arizona's Waterways » (awarded at the IYRP NA Film Festival)
- Production of a **photo-documentary on drought management** in the Santa Cruz Valley socio-hydrosystem
- **Change in leadership end of 2023 :**
 - New deputy director : Anne Sourdriil CR CNRS UMR Ladyss
 - Co-director : Larry Fisher Professor Emeritus University of Arizona, School of Natural Resources and the environment
 - New manager (Marie-Sophie Dumont, IRL iGlobes)





OHMi Pima County - 2024-2025

- **Call for projects 2024 : 7 projects submitted**, including 1 inter-OHM (inter-OHM funding pending) - 3 French and 4 American PI.
- Introduction of a **biannual seminar**:
 - 1st webinar took place on April 25, 2024 - 12 presentations, 18 participants.
 - 2nd seminar to be organized on site in Oct. 2024 - presentations on past/current projects and field visits.
 - + Participation in cross-disciplinary project seminars (Lyon, Nov 2024).
- Objectives for 2024 & 2025 :
 1. **Opening our calls and seminars to civil society partners** and questioning the possibilities and capacities of OHMi's expertise for/by the territory.
 2. **Enhanced communication** : Update the OHMi website, in particular by updating and promoting current partnerships and funded projects, and by creating an archive section to keep track of OHMi's work and renewals.
 3. **Increase data sharing** : Start the collection, compilation and archiving of research data from OHMi's early years, via the creation of a database and/or a dedicated Geographic Information System.
 4. **Expansion of Impacts** : Expand and refine watershed monitoring and adaptive management to include 4 additional regional watersheds.
 5. **Dissemination** : Publish 5 peer-reviewed journal articles, complete 2 symphonic compositions and associated art installation, provide numerous professional / public presentations and performances.



News from OHMi Tessedere

Priscilla Duboz¹, Papa Ibnou Ndiaye²



¹UMR 7268 ADES, Faculté de médecine, Marseille, France

²Département de Biologie Animale, Université Cheikh Anta Diop, Dakar, Sénégal

News from OHM and DRIIHM

Université d'Ete à La Rochelle 2023



Delta Birding Festival, 2023
(Delta d'El Ebro)



Collective mission october 2023
6 projects – 50 participants

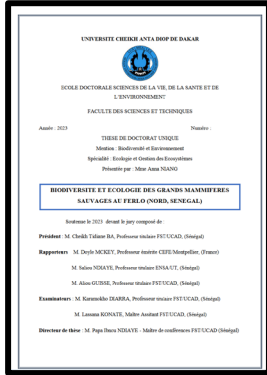
Koyli Alpha Community Nature Reserve and extension to
Loughéré Thiolly – UCAD/UGB/UASZ

February 2024 : Meeting in Bonn with UNCCD – project GGWASA
and environmental sahelian imaginaries



Formation, publications & valorisation

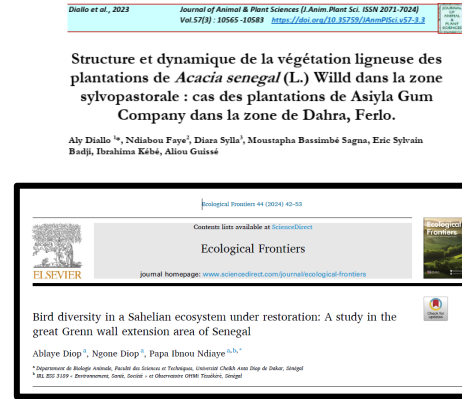
Master 2 & PhD students



Colloque SFP



Scientific publications



Diversity and Structure of the Woody Stand in a Sudano-Sahelian Transition Zone in Senegal

Oumar Sarr^{1,2}, Moustapha B. Sagna^{1,2}, Amy Bakhoun¹, Sékouna Diatta^{1,2}, Aliou Guissé^{1,2}



Full Length Research Paper
Phytonutrients content and biological activities of fruits of *Diospyros mespiliformis* Hochst ex A. DC (Ebenaceae) used in the treatment of gastroenteritis and gastroduodenal ulcer in Burkina Faso

Ramde-Tiendrebeogo Alphonsine¹⁻⁴, Bado David⁵, Yoda Jules¹, Compaore Moussa¹, Kini Felix¹, Kiendrebeogo Martin¹, Guissou I. Pierre¹ and Guisse Aliou¹

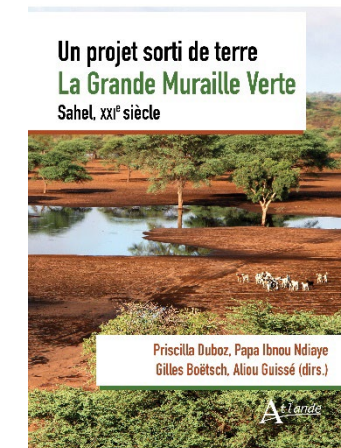
Seminar on the results may 2024



ÉVOLUTION ALIMENTAIRE À WIDOU THIENGOLY

Lucile Brunone, doctorante en sociologie UMR MOISA
 Thèse CIFRE avec le CNIEL

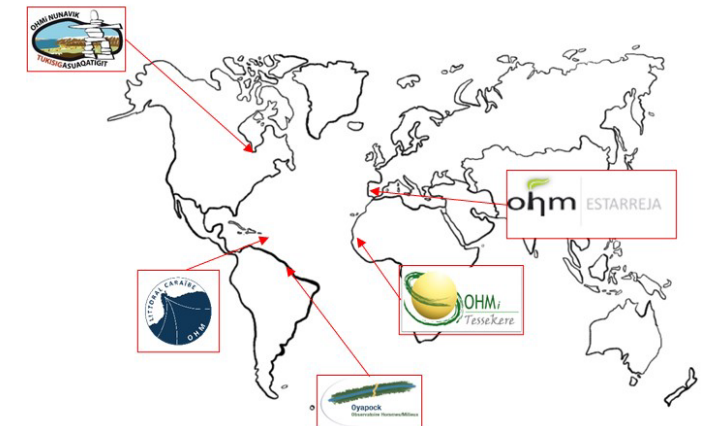
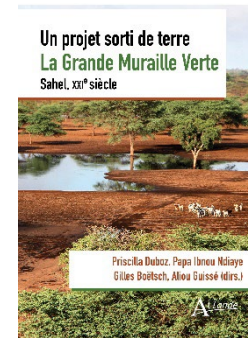
Sous la direction de
 Laurence Tibère : Professeure en sociologie et HDR
 Priscilla Duboz : Docteure en anthropologie biologique, et HDR



Collective book

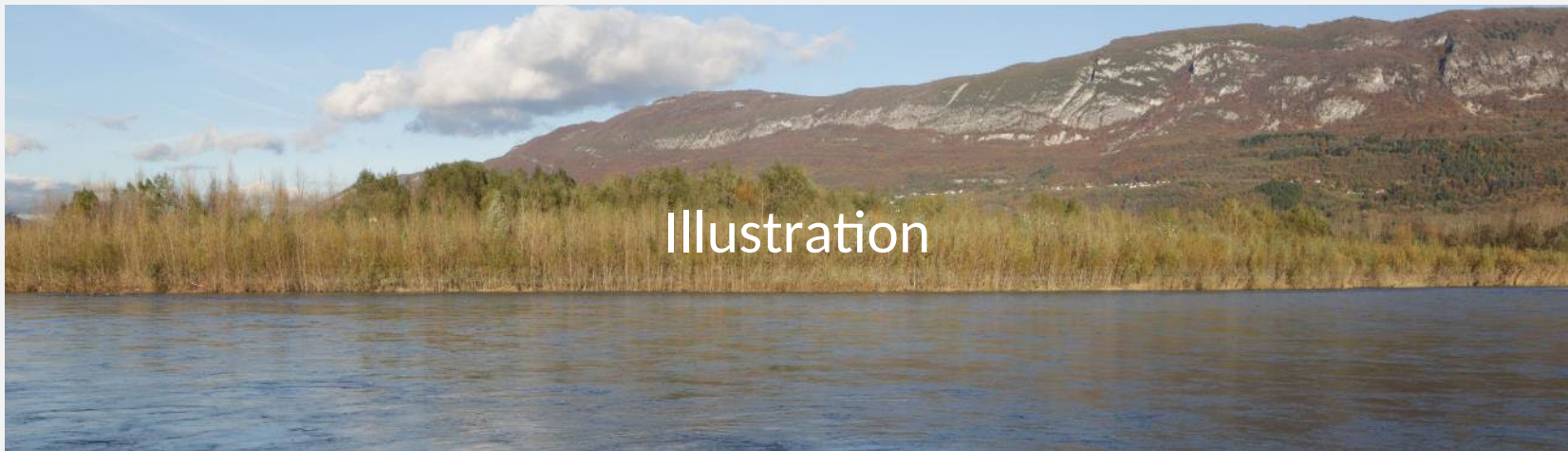
Priscilla Duboz, Papa Ibnou Ndiaye
 Gilles Boëtisch, Aliou Guissé (dirs.)

- Late september 2024 : Bordeaux : biodiversity dynamics / IRN
- September : Book on sahelian dynamics
- November : final meeting SASI
- December : book on vulgarisation



News from OHM « Vallée du Rhône »

Carole Barthélémy^{1*}, Brice Mourier^{2*}, Fanny Arnaud³, Bertrand Morandi⁴



¹AMU-LPED, Marseille, France

²ENTPE-LEHNA, Lyon, France

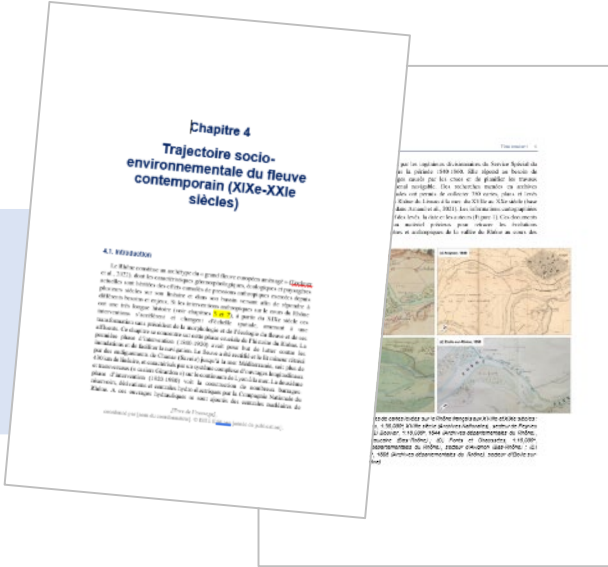
³CNRS-EVS, Lyon, France

⁴Graie, Lyon, France

News from OHM Vallée du Rhône

Evaluation of OHM VR > January 2025

Collective Book to summarise OHM VR results
The Rhône, a river of the Anthropocene. An interdisciplinarity focus on a socio-hydrosystem (Publication ISTEE-Wiley, 2024)



Publications reveal how socio-ecological research is implemented: lessons from the Rhône Long Term Socio-Ecological Research platform.

C. Poirier et al, 2024, *Anthropocene*

OHM VR Events to draw transdisciplinary perspectives



Scientific Seminar (12/12/2023) > Researchers

Strategic Orientation Committee (23/01/2024) > Researchers & Operators



An opportunity to rediscuss/develop the OHM VR scientific questions and conceptual framework related to DRIHM advances and new operational issues on the Rhône River ?

- knowledge and action on the risks associated with industrial pollution (PFAS) > BIP CCC
- contradictory challenges of the energy and ecological transitions on the Rhône River > 2 ENERCON Seminars
- understanding climate change and, more broadly, global environmental changes' effects

OHM VR Contributes to Ecology Environment, Biodiversity Week (CNRS)

Comment les transitions mobilisent les acteurs sur les territoires des OHM BMP et VR ? (Y. Noack et C. Barthélémy) (29 may 2024 Aix-en-Provence)
Une plateforme recherche-action pour la pérennité de la ressource en eau potable sur le champ captant de Crépieux-Charmy (Métropole de Lyon) (F. Mermillod-Blondin et A. Perrissin) (31 may 2024 Paris)

News from OHM Vallée du Rhône

OSR, RhôneEco & PRCC New
Research Programs 2024-2028

New projects in social sciences

APR 2024 : 4 projects with SHS topics

OHM VR is partner with the Graie of ResiRiver INTERREG
> study and improvement of stakeholders involvement
in Rhône River restoration projects

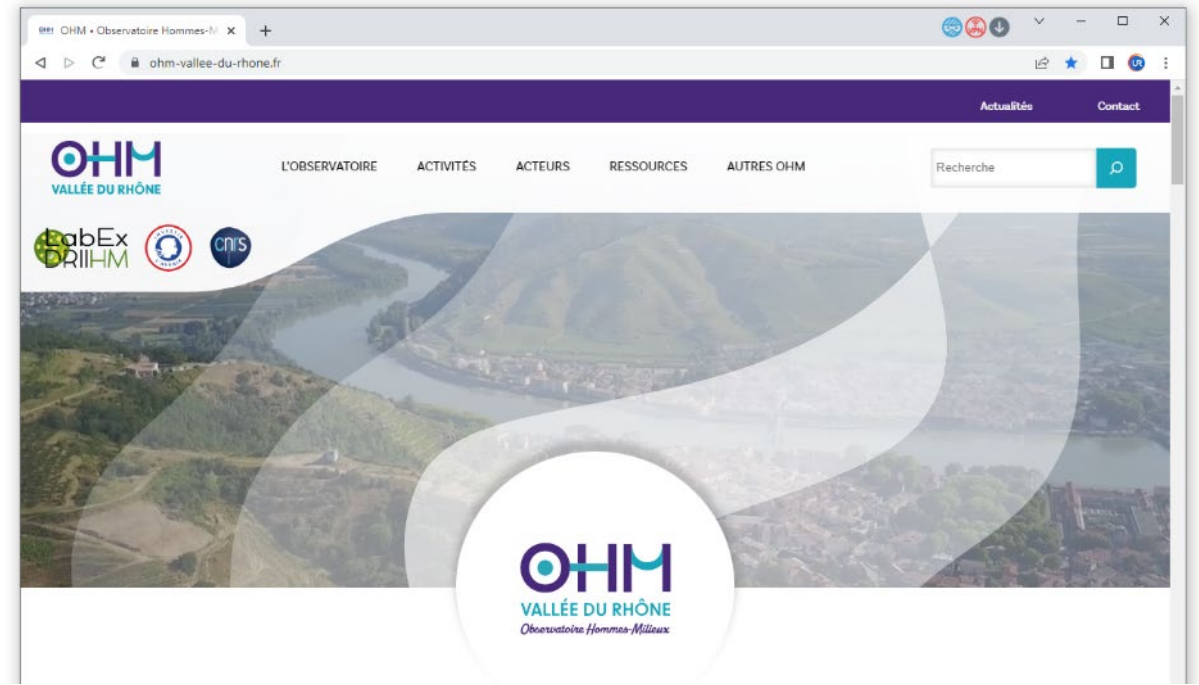


New Website & Upgraded Tools <https://ohm-vallee-du-rhone.fr/>

- New OHM VR website (*ongoing english translation*)
> related to OSR, RhôneEco & PRCC websites

An ecosystem of online tools to support research

- Documentary portal (Hal) > **all OHM VR reports**
- Data catalog > **93 dataset**
- Photo library DRIIHM > **+ 550 nouvelles images**
- New developements of GéoRhône and ChronoRhône



News from OHM « Bassin Minier de Provence »



News from OHM and DRIIHM

Activities in 2023



Comptes Rendus - Géoscience—Sciences de la Planète

The Provence Coalfield: trajectory, assessment and prospective

S. Daviet, A. Schleyer-Lindenmann, J-C. Raynal, P. Batteau and Y. Noack

PhD of Rebecca Castel : *PAH and heavy metals in settled dust from nursery school : risk evaluation by ingestion and génotoxicité* (+ 3 papers), https://ohm-provence.in2p3.fr/attachments/article/1599/Resum%C3%A9s_These_Rebecca_CASTEL.pdf

Mission Mines 2023 :for the 20th anniversary of the mines closure, 3 conferences (S. Perroux, S. Daviet, I. Laffont-Schwob) <https://ohm-provence.in2p3.fr/1597-mission-mines-2203-les-conferences-de-l-ohm-bmp>

Biodiversity Month (Gardanne Médiathèque) : Conference “ *Humans/Non Humans Cohabitation*” (S. Gachet)

2023 Meeting of OHM BMP in Meyreuil, 9 and 10 November : 100 participants, one day about “ *Energy Transition in PACA Region*”, <https://ohm-provence.in2p3.fr/recherche/la-restitution-des-etudes/1604-restitution-des-etudes-2022>



News from OHM and DRIIHM

Activities and projects for 2024



APR 2024-2025 : 3 projects

- *Réseau de sciences participatives pour agir sur la qualité de l'air en ERP (R. Bertoldo and L. Malleret)*
- *Devenir des dépôts historiques de résidus de bauxite dans le canyon de Cassidaigne 10 ans après l'arrêt des rejets : foraminifères benthiques et Remobilisation de contaminants métalliques (L. Licari)*
- *La transition énergétique dans le bassin minier de Provence au prisme de la "modernisation écologique". Enjeux de gouvernance pour les territoires (S. Velut et S. Daviet)*

Participation to the **Fête de la Science 2024** and **Sciences en Classe**, with E. Henry

Annual Meeting of the OHM, probably in December at Aix-en-Provence

Beginning of a brainstorming about the **OHM BMP Future**

News from OHM and DRIIHM