

PUBLICATIONS IN PEER-REVIEWED JOURNALS

ORCID ID, 0000-0001-9559-7572; Thomson Researcher ID, L-1169-2013; Scopus Author ID, 23491673800; ID Hal, antoine-collin

-
- J63- **Collin, A.**, Palola, P., James, D., Pastol, Y., Monpert, C., Loyer, S., ... & Wedding, L., 2023. Superdove-modelled bathymetry using neural networks along a turbidity gradient: Bréhat, Saint-Barthélémy and Tetiaroa islands. *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, 48, 1351-1356.
- J62- Cescon, A.L., Cooper, J.A.G., Jackson, D.W., **Collin, A.**, & Gore, S., 2023. Mesoscale Shoreline Evolution on a Carbonate Sand Island: Anegada, British Virgin Islands. *Journal of Marine Science and Engineering*, 11(9), 1725.
- J61- Gairin, E., Minier, L., Claverie, T., Dromard, C. R., Maueau, T., **Collin, A.**, ... & Lecchini, D., 2023. Coral reef fish communities of natural habitats and man-made coastal structures in Bora-Bora (French Polynesia). *Belgian Journal of Zoology*, 153.
- J60- Lamontagne, N., **Collin, A.**, 2022. Inoculation. *L'information géographique*, 86(4), 107-109.
- J59- Gairin, E., **Collin, A.**, James, D., Dolique, F., Jeanson, M., Lecchini, D. 2022. Multi-decadal coastal evolution of remote Pacific islands: armouring of Taha'a, Raiatea, Maupiti, and Rangiroa (French Polynesia). *Regional Environmental Change*, 22(4), 1-8.
- J58- Courteille, M., Jeanson, M., **Collin, A.**, James, D., Claverie, T., Charpentier, M., ... & Lecchini, D. 2022. Characterisation of long-term evolution (1950–2016) and vulnerability of Mayotte's shoreline using aerial photographs and a multidisciplinary vulnerability index. *Regional Studies in Marine Science*, 55, 102537.
- J57- Giraud-Renard, E., Dolique, F., **Collin, A.**, James, D., Gairin, E., Courteille, M., Beaufort, O., René-Trouillefou, M., Dulormne, M., Jeanson, M., Lecchini, D. 2022. Long-Term Evolution of the Guadeloupean Shoreline (1950–2017). *Journal of Coastal Research*, 38(5), 976-987.
- J56- Lamontagne, N., **Collin, A.**, 2022. Pulsation spatiale : Le sédiment au coeur de la métamorphose du paysage. *L'information géographique*, 86(2), 100-112.
- J55- **Collin, A.**, James, D., Feunteun, E. 2022. Towards better coastal mapping using fusion of high temporal Sentinel-2 and PlanetScope-2 imageries: 12 bands at 3 m through neural network modelling. *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XLIII-B3-2022, 479-484.
- J54- Letard, M., **Collin, A.**, Lague, D., Corpetti, T., Pastol, Y., Ekelund, A. 2022. Using bispectral full-waveform LiDAR to map seamless coastal habitats in 3D. *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XLIII-B3-2022, 463-470.
- J53- TERNON, Q., DANET, V., THIRIET, P., YSNEI, F., FEUNTEUN, E., **COLLIN, A.** 2022. Classification of underwater photogrammetry data for temperate benthic rocky reef mapping. *Estuarine, Coastal and Shelf Science*, 270, 107833.
- J52- Letard, M., **Collin, A.**, Corpetti, T., Lague, D., Pastol, Y., Ekelund, A. 2022. Classification of Land-Water Continuum Habitats Using Exclusively Airborne Topobathymetric Lidar Green Waveforms and Infrared Intensity Point Clouds. *Remote Sensing*, 14, 341.
- J51- James, D., **Collin, A.**, Mury, A., Qin, R., 2022. Satellite-Derived Topography and Morphometry for VHR Coastal Habitat Mapping: The Pleiades-1 Tri-Stereo Enhancement. *Remote Sensing*, 14, 219.

- J50- Le Quilleuc, A., **Collin, A.**, Jasinski, M. F., Devillers, R., 2022. Very High-Resolution Satellite-Derived Bathymetry and Habitat Mapping Using Pleiades-1 and ICESat-2. *Remote Sensing*, 14(1), 133.
- J49- Gairin, E., **Collin, A.**, James, D., Maueau, T., Roncin, Y., Lefort, L., Dolique, F., Jeanson, M., Lecchini, D., 2021. Spatiotemporal Trends of Bora Bora's Shoreline Classification and Movement Using High-Resolution Imagery from 1955 to 2019. *Remote Sensing*, 13, 4692.
- J48- James, D., **Collin, A.**, Mury, A., Letard, M., 2021. Enhancing UAV coastal mapping using infrared pansharpener. *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XLIII-B3-2021, 257-264.
- J47- **Collin, A.**, James, D., Mury, A., Letard, M., Guillot, B., 2021. Predicting the infrared UAV imagery over the coast. *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XLIII-B1-2021, 149-156.
- J46- **Collin, A.**, Andel, M., Lecchini, D., Claudet, J., 2021. Mapping Sub-Metre 3D Land-Sea Coral Reefscapes Using Superspectral WorldView-3 Satellite Stereoimagery. *Oceans*, 2(2), 315-329.
- J45- Lochin, P., **Collin, A.**, James, D., Pastol, Y., Costa, S., 2020. Blue carbon attenuation of future coastal risks related to extreme stream- and sea-water levels: the high-resolution 2D simulation as a management tool. *Revista de Investigación Marina*, 27(1), 47-50.
- J44- Lamontagne, N., **Collin, A.**, 2020. Paysage sensible art-science d'un confinement sur le littoral breton: Mise en relief d'un calligramme géopoétique. *L'information géographique*, 84(3), 48-55.
- J43- James, D., **Collin, A.**, Mury, A., Costa, S., 2020. Very high resolution land use and land cover mapping using Pleiades-1 stereo imagery and machine learning. *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XLIII-B2-2020, 675-682.
- J42- Selmoni, O., Lecellier, G., Ainley, L., **Collin, A.**, Doucet, R., Dubousquet, V., ..., Malimali, S., 2020. Using modern conservation tools for innovative management of coral reefs: the MANACO Consortium. *Frontiers in Marine Science*, 7, 609.
- J41- Mury, A., **Collin, A.**, Houet, T., Alvarez-Vanhard, E., James, D., 2020. Using Multispectral Drone Imagery for Spatially Explicit Modeling of Wave Attenuation through a Salt Marsh Meadow. *Drones*, 4(2), 25.
- J40- **Collin, A.**, Calle, C., James, D., Costa, S., Maquaire, O., Davidson, R., Trigo-Teixeira, A., 2020. Modelling 2D coastal flooding at fine-scale over vulnerable lowlands using satellite-derived topobathymetry, hydrodynamic and overflow simulations. *Journal of Coastal Research*, 95, 1052-1056.
- J39- Mury, A., **Collin, A.**, Jeanson, M., James, D., Gloria, H., Pastol, Y., Etienne, E., 2020. Mapping nature-based marine flooding risk using VHR wave, airborne LiDAR and satellite imagery: the case study of the Dol Marsh (Bay of Mont-Saint-Michel, France). *Journal of Coastal Research*, 95, 743-747.
- J38- James, D., **Collin, A.**, Houet, T., Mury, A., Gloria, H., Le Poulain, N., 2020. Towards better mapping of seagrass meadows using UAV multispectral and topographic data. *Journal Coastal Research*, 95, 1117-1121.
- J37- Moussa, R.M., Fogg, L., Bertucci, F., Calandra, M., **Collin, A.**, Aubanel, A., ..., Planes, S., 2019, "Long-term coastline monitoring on a coral reef island (Moorea, French Polynesia)", *Ocean and Coastal Management*, 180, 104928.
- J36- Montaggioni, L., **Collin, A.**, James, D., Salvat, B., ..., Chancerelle, Y., 2019, "Morphology of fore-reef slopes and terraces, Takapoto Atoll (Tuamotu Archipelago, French Polynesia, central Pacific): The tectonic, sea-level and coral-growth control", *Marine Geology*, 417, 106027.
- J35- **Collin, A.**, Dubois, S., James, D., Houet, T., 2019, "Improving Intertidal Reef Mapping Using UAV Surface, Red Edge, and Near-Infrared Data", *Drones*, 3, 67.
- J34- Mury, A., **Collin, A.**, James, D., 2019, "Morpho-Sedimentary Monitoring in a Coastal Area, from 1D to 2.5D, Using Airborne Drone Imagery", *Drones*, 3, 62.
- J33- **Collin, A.**, Andel, M., James, D., Claudet, J., 2019, "The superspectral/hyperspatial WorldView-3 as the link between spaceborne hyperspectral and airborne hyperspatial sensors: the case study of the complex tropical coast", *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XLII-2/W13, 1849-1854.

- J32- Tieng, T., Sharma, S., MacKenzie, R.A., Venkattappa, M., Sasaki, N.K., **Collin, A.**, 2019, “Mapping mangrove forest cover using Landsat-8 imagery, Sentinel-2, Very High Resolution Images and Google Earth Engine algorithm for entire Cambodia”, *IOP Conference Series: Earth and Environmental Science*, 266(1), 012010.
- J31- Mury, A., Jeanson, M., **Collin, A.**, James, D., Etienne, S., 2019, “High Resolution Shoreline and Shelly Ridge Monitoring over Stormy Winter Events: A Case Study in the Megatidal Bay of Mont-Saint-Michel (France)”, *Journal of Marine Science and Engineering*, 7(4), 97.
- J30- Chen, Q., Kutser, T., **Collin, A.**, Warner, T., 2018, “Fine resolution remote sensing of species in terrestrial and coastal ecosystems”, *International Journal Remote Sensing*, 39(17), 5597-5599.
- J29- **Collin, A.**, Ramambason, C., Pastol, Y., Casella, E., Rovere, A., Thiault, L., Espiau, B., Siu, G., Lerouvreur, F., Nakamura, N., Hench, J.L., Schmitt, R.J., Holbrook, S.J., Troyer, M., Davies, N., 2018, “Very high resolution mapping of coral reef state using airborne bathymetric LiDAR and drone imagery”, *International Journal Remote Sensing*, 39(17), 5676-5688.
- J28- **Collin, A.**, Dubois, S., Ramambason, C., Etienne, S., 2018, “Very high resolution mapping of emerging biogenic reefs using airborne optical imagery and neural network: the honeycomb worm (*Sabellaria alveolata*) case study”, *International Journal Remote Sensing*, 39(17), 5660-5675.
- J27- **Collin, A.**, Lambert, N., Etienne, S., 2018, “Satellite-based salt marsh elevation, vegetation height, and species composition mapping using the superspectral WorldView-3 imagery”, *International Journal Remote Sensing*, 39(17), 5619-5637.
- J26- **Collin, A.**, Lambert, N., James, D., Etienne, S., 2018, “Mapping wave attenuation induced by salt marsh vegetation using WorldView-3 satellite imagery”, *Revista de Investigación Marina*, 25(2), 67-69.
- J25- Harris, D.L., Rovere, A., Casella, E., Power, H., Canavesio, R., **Collin, A.**, Pomeroy, A., Webster, J.M., Parravicini, V., 2018, “Coral reef structural complexity provides important coastal protection from waves under rising sea levels”, *Sciences Advances*, 4(2), eaao4350.
- J24- **Collin, A.**, Hench, J.L., Pastol, Y., Planes, S., Thiault, L., Schmitt, R.J., Holbrook, S.J., Davies, N., Troyer, M., 2018, “High resolution topobathymetry using a Pleiades-1 triplet: Moorea Island in 3D”, *Remote Sensing of Environment*, 208, 109-119.
- J23- **Collin, A.**, Duvat, V., Pillet, V., Salvat, B., James, D., 2018, "Understanding Interactions between Shoreline Changes and Reef Outer Slope Morphometry on Takapoto Atoll (French Polynesia)", *Journal of Coastal Research*, 85, 496-500.
- J22- Bitoun, R., **Collin, A.**, James, D., Pioch, S., 2018, "Modelling Saltmarsh Spatial Evolution at High Resolution from 1948 to 2100 (Beaussais's Bay, France)", *Journal of Coastal Research*, 85, 676-680.
- J21- Thiault, L., Marshall, P., Gelcich, S., **Collin, A.**, Chlous, F., Claudet, J., 2018, “Space and time matter in social-ecological vulnerability assessments”, *Marine Policy*, 88, 213-221.
- J20- **Collin, A.**, Etienne, S., Feunteun, E., 2017, “VHR coastal bathymetry using WorldView-3: colour versus learner”, *Remote Sensing Letters*, 8(11), 1072-1081.
- J19- Thiault, L., Marshall, P., Gelcich, S., **Collin, A.**, Chlous, F., Claudet, J., 2017, “Mapping social-ecological vulnerability to inform local decision making”, *Conservation Biology*, 32(2), 447-456.
- J18- Thiault, L., **Collin, A.**, Chlous, F., Gelcich, S., Claudet, J., 2017, “Combining participatory and socioeconomic approaches to map fishing effort in small-scale fisheries”, *PLoS ONE*, 12(5), e0176862.
- J17- Casella, E., **Collin, A.**, Harris, D., Ferse, S., Bejarano, S., Parravicini, V., Hench, J., Rovere, A., 2017, “Mapping coral reefs using consumer-grade drones and structure from motion photogrammetry techniques”, *Coral Reefs*, 1-7.
- J16- Davies, N., Field, D., Gavaghan, D., Holbrook, S.J., Planes, S., Troyer, M.,..., **Collin, A.**, et al., 2016, "Simulating social-ecological systems: the Island Digital Ecosystem Avatars (IDEA) consortium", *GigaScience*, 5, 14.

- J15- **Collin, A.**, Etienne, S., Jeanson, M., 2016, "Three-dimensional structure of coral reef boulders transported by stormy waves using the very high resolution WorldView-2 satellite", *Journal of Coastal Research*, 75, 572-576.
- J14- Jeanson, M., Etienne, S., **Collin, A.**, 2016, "Wave attenuation and coastal protection by shelly ridges: Mont-Saint-Michel Bay, France", *Journal of Coastal Research*, 75, 398-402.
- J13-**Collin, A.**, Nadaoka, K., Bernardo, L., 2015, "Mapping the Socio-Economic and Ecological Resilience of Japanese Coral Reefscapes across a Decade", *ISPRS Int. J. Geo-Inf.*, 4(2), 900-927.
- J12-**Collin, A.**, Archambault, P., Planes, S., 2014, "Revealing the regime of shallow coral reefs at patch scale by continuous spatial modeling", *Front. Mar. Sci.*, 1, 65.
- J11-**Collin, A.**, Nadaoka, K., Nakamura, T., 2014, "Mapping VHR Water Depth, Seabed and Land Cover Using Google Earth Data", *ISPRS Int. J. Geo-Inf.*, 3(4), 1157-1179.
- J10-**Collin, A.**, Archambault, P., Planes, S., 2013, "Bridging Ridge-to-Reef Patches: Seamless Classification of the Coast Using Very High Resolution Satellite", *Remote Sensing*, 5, 3583-3610.
- J9-**Collin, A.**, Etienne, S., Planes, S., 2013, "High-energy events, coastal boulder deposits and the use of very high resolution remote sensing", *Journal of Coastal Research*, 65, 690-695.
- J8-Pouteau, R., **Collin, A.**, 2013, "Spatial location and ecological content of support vectors in an SVM classification of tropical vegetation", *Remote Sensing Letters*, 4(7), 686-695.
- J7-**Collin, A.**, Planes, S., 2012, "Enhancing Coral Health Detection Using Spectral Diversity Indices from WorldView-2 Imagery and Machine Learners", *Remote Sensing*, 4, 3244-3264.
- J6-**Collin, A.**, Hench, J., 2012, "Towards deeper measurements of tropical reefscape structure using the WorldView-2 spaceborne sensor", *Remote Sensing*, 4(5), 1425-1447.
- J5-**Collin, A.**, Long, B., Archambault, P., 2012, "Merging land-marine realms: spatial patterns of seamless coastal habitats using a multispectral LiDAR", *Remote Sensing of Environment*, 123, 390-399.
- J4-**Collin, A.**, Archambault, P., Long, B., 2011, "Predicting species diversity of benthic communities within turbid nearshore using full-waveform bathymetric LiDAR and machine learners", *PLoS ONE*, 6(6), e21265.
- J3-**Collin, A.**, Long, B., Archambault, P., 2011, "Benthic classifications using bathymetric LiDAR waveforms and integration of local spatial statistics and textural features", *Journal of Coastal Research*, 62, 86-98.
- J2-**Collin, A.**, Long, B., Archambault, P., 2010, "Salt-marsh characterization, zonation assessment and mapping through a dual-wavelength LiDAR", *Remote Sensing of Environment*, 114 (3), 520-530.
- J1-**Collin, A.**, Long, B., Archambault, P., 2008, "Mapping the shallow water seabed habitat with the SHOALS", *IEEE Transactions on Geoscience and Remote Sensing*, 46(10), 2947-2955.

BOOK CHAPTERS

- B11- **Collin, A.**, James, D., Mury, A., Letard, M., Houet, T., Gloria, H., Feunteun, E. (2023). Multiscale Spatiotemporal NDVI Mapping of Salt Marshes Using Sentinel-2, Dove, and UAV Imagery in the Bay of Mont-Saint-Michel, France. In: Niculescu, S. (eds) European Spatial Data for Coastal and Marine Remote Sensing. Springer, Cham. https://doi.org/10.1007/978-3-031-16213-8_2
- B10- **Collin, A.**, Pastol, Y., Letard, M., Le Goff, L., Guillaudeau, J., James, D., Feunteun, E. (2023). Increasing the Nature-Based Coastal Protection Using Bathymetric Lidar, Terrain Classification, Network Modelling: Reefs of Saint-Malo's Lagoon?. In: Niculescu, S. (eds) European Spatial Data for Coastal and Marine Remote Sensing. Springer, Cham. https://doi.org/10.1007/978-3-031-16213-8_17
- B9- Mury, A., **Collin, A.**, James, D., Letard, M. (2023). Contribution of Near- and Mid-Infrared Wavebands to Mapping Fine-Scale Coastal Ecogeomorphological Features. In: Niculescu, S. (eds) European Spatial Data for Coastal and Marine Remote Sensing. Springer, Cham. https://doi.org/10.1007/978-3-031-16213-8_3
- B8- James, D., **Collin, A.**, Mury, A., Letard, M., Legal, O., Lequilleuc, A. (2023). Very High-Resolution Monitoring and Evaluation of Tidal and Ecological Restoration in Beaussais' Bay. In: Niculescu,

- S. (eds) *European Spatial Data for Coastal and Marine Remote Sensing*. Springer, Cham. https://doi.org/10.1007/978-3-031-16213-8_12
- B7- Caline, B., **Collin, A.**, Pastol, Y., Letard, M., Feunteun, E. (2023). New Insights into the Shallow Morpho-Sedimentary Patterns Using High-Resolution Topo-Bathymetric Lidar: The Case Study of the Bay of Saint-Malo. In: Niculescu, S. (eds) *European Spatial Data for Coastal and Marine Remote Sensing*. Springer, Cham. https://doi.org/10.1007/978-3-031-16213-8_14
- B6- Bulot, A., **Collin, A.**, Letard, M., Feunteun, E., LeGoff, L., Pastol, Y., Caline, B. (2023). Spatial Modeling of the Benthic Biodiversity Using Topo-Bathymetric Lidar and Neural Networks. In: Niculescu, S. (eds) *European Spatial Data for Coastal and Marine Remote Sensing*. Springer, Cham. https://doi.org/10.1007/978-3-031-16213-8_15
- B5- Ternon, Q., **Collin, A.**, Feunteun, E., Ysnel, F., Danet, V., Guillaume, M., Thiriet, P. 2023. Local Circalittoral Rocky Seascape Structuring Fish Community: Insights from a Photogrammetric Approach. In: Niculescu, S. (eds) *European Spatial Data for Coastal and Marine Remote Sensing*. Springer, Cham. https://doi.org/10.1007/978-3-031-16213-8_16
- B4-Mury, A., **Collin, A.**, Jeanson, M., Etienne, S., 2020, “Wave attenuation service by intertidal coastal ecogeosystems in the Bay of Mont-Saint-Michel, France: Review and meta-analysis”. In *Estuaries and coastal zones in times of global change: Proceeding of ICEC-2018*, Nguyen, K.D., Guillou, S., Gourbesville, P. and Thiébot, J., Springer, 555-572.
- B3-**Collin, A.**, Laporte, J., Koetz, B., Martin-Lauzer, F.R., Desnos, Y.L., 2020, “Coral reefs in Fatu Huku Island, Marquesas Archipelago, French Polynesia”. In *Seafloor Geomorphology as Benthic Habitat, 2e: GeoHab Atlas of Seafloor Geomorphic Features and Benthic Habitats*, Harris, P.T. and E.K. Baker, Elsevier, 533-543.
- B2-**Collin, A.**, Chancerelle, Y., Pouteau, R., 2014, “The reefscape ecology in the middle of the Southern Pacific: confluence of the Polynesia Mana network and Very High Resolution Satellite”. In *Underwater Seascapes: from geographical to ecological perspectives*, French Agency of Marine Protected Areas (Ed.), Springer, 241-258.
- B1-**Collin, A.**, Long, B., Archambault, P., 2011, “Coastal kelp forest habitat in the Baie des Chaleurs, Gulf of St. Lawrence, Canada”. In *Seafloor Geomorphology as Benthic Habitat*, Harris, P.T. and E.K. Baker, Elsevier, 201-209.

PUBLICATIONS IN REVIEW OR REVISION

- J41-Sharma, S., **Collin, A.**, Nadaoka, N., 2023, “Spatial modeling of the carbon-sequestered mangrove in Fukido, Japan”, *Biogeosciences*.
- J40-**Collin, A.**, Nadaoka, K., 2023, “Coral reefs in Japan protect the human habitats”, *Proceedings of the National Academy of Sciences*.

PUBLICATIONS IN PEER-REVIEWED PROCEEDINGS

- P45- **Collin, A.**, James, D., Feunteun, E., Gallon, R., Poizot, E., 2023, “The use of ultra high resolution UAV lidar infrared intensity for enhancing coastal cover classification”, *Proceedings of the 5th International Electronic Conference on Remote Sensing*, 7–21 November 2023, MDPI: Basel, Switzerland, doi:10.3390/ECRS2023-16610
- P44- **Collin, A.**, James, D., Feunteun, E., “Pléiades Neo-derived bathymetry in coastal temperate waters: the case study of Saint-Malo”, *Proceedings of the 5th International Electronic Conference on Remote Sensing*, 7–21 November 2023, MDPI: Basel, Switzerland, doi:10.3390/ECRS2023-16366
- P43- James, D., **Collin, A.**, Bouet, A., 2023, “Drone-based spatio-temporal assessment of a seagrass meadow provides insights in the anthropogenic pressure”, *Proceedings of the 5th International*

- Electronic Conference on Remote Sensing, 7–21 November 2023, MDPI: Basel, Switzerland, doi:10.3390/ECRS2023-15851.
- P42- James, D., **Collin, A.**, Feunteun, E., 2023, “Dynamique spatio-temporelle des écosystèmes de carbone bleu : cas d’étude sur la Côte d’Émeraude”, 4th merIGéo, 14-16 March : 48-51.
- P41- **Collin, A.**, Bulot, A., Pastol, Y., LeGoff, L., Feunteun, E., 2023, “Classification des habitats benthiques par segmentation sémantique d’imagerie optique et LiDAR ouverte : Ortho-Littorale et Litto3D en baie de Saint-Malo”, 4th merIGéo, 14-16 March : 44-47.
- P40- Alvarez-Vanhard, E., Liabot, P.-O., **Collin, A.**, James, D., Dubois, S., 2023, “Évaluation surfacique des récifs intertidaux à *Sabellaria alveolata* par drone aérien”, 4th merIGéo, 14-16 mars : 184-186.
- P39- LeQuilleuc, A., Husset, M.-C., **Collin, A.**, Feunteun, E., 2023, “Cartographie prédictive d’un coquillage invasif via l’apprentissage automatique des données acoustiques multi-fréquentielles et vérités-terrain : *Crepidula fornicata* en Baie du Mont-Saint-Michel”, 4th merIGéo : 165-167.
- P38- LeGal, O., **Collin, A.**, James, D., Dubois, S., 2023, “ Classifications satellitaires RaDAR et optiques des récifs biogéniques intertidaux : Sentinel-1, -2 et Pléiades-1 au service des hermelles (*Sabellaria alveolata*) du Parc naturel marin de l’estuaire de la Gironde et de la mer des Pertuis”, 4th merIGéo, 14-16 mars : 168-169.
- P37- Jeuffrard, I., **Collin, A.**, Duthion, G., 2023, “Suivi pluri-décennal rétrospectif et prospectif du trait de côte dunaire par imagerie multispectrale”, 4th merIGéo, 14-16 mars : 147-149.
- P36- Letard, M., **Collin, A.**, Corpetti, T., Lague, D., Pastol, Y., Gloria, H., James, D., Mury, A., 2021, "Classification of coastal and estuarine ecosystems using full-waveform topo-bathymetric lidar data and artificial intelligence", *IEEE OCEANS 2021: San Diego – Porto*, 1-10.
- P35- **Collin, A.**, Prot, P., Bouazzaoui, H., Bnikkou, S., 2021, "Spatiotemporal Patterns Of the Sea Surface Temperature Using Statistical Anomaly Detection Across the 18-Year-Old Global Scale", *IEEE OCEANS 2021: San Diego – Porto*, 1-7.
- P34- Letard, M., **Collin, A.**, Lague, D., Corpetti, T., Pastol, Y., Ekelund, A., Pergent, G., Costa, S., 2021, “Towards 3D mapping of seagrass meadows with topo-bathymetric LiDAR full-waveform processing”, *IEEE International Geoscience and Remote Sensing Symposium*, 12-16 July, 8069-8072.
- P33- James, D., **Collin, A.**, Mury, A., Letard, M., Guillot, B., 2021, “UAV multispectral optical contribution to coastal 3D modelling”, *IEEE International Geoscience and Remote Sensing Symposium*, 12-16 July, 7951-7954.
- P32- **Collin, A.**, Letard, M., Andel, M., Sharma, S., 2021, “Object-based mangrove mapping using submeter superspectral WorldView-3 imagery and deep convolutional neural network”, *IEEE International Geoscience and Remote Sensing Symposium*, 12-16 July, 7362-7365.
- P31- Mury, A., **Collin, A.**, James, D., 2021, "Prospective 2050 : étude de cas sur l’évolution du service écosystémique de protection côtière", 16th SAGEO, 5-7 May: 51-62.
- P30- Letard, M., **Collin, A.**, James, D., Mury, M., 2021, "Trajectoire socio-écologique d’une commune de la Baie du Mont-Saint-Michel entre 1947 et 2014", 16th SAGEO, 5-7 May: 63-74.
- P29- **Collin, A.**, Durozier, T., Hervouet, G., Costa, S., 2021, "Détecer le processus de dépoldérisation par l’observation satellite à très haute résolution temporelle", 16th SAGEO, 5-7 May: 250-252.
- P28- James, D., **Collin, A.**, Letard, M., 2021, "Étude spatio-temporelle d’un écosystème littoral : le prés-salé de Sainte-Anne en baie du Mont-Saint-Michel", 16th SAGEO, 5-7 May: 265-267.
- P27- Mury, A., Houet, T., James, D., **Collin, A.**, 2020, "Utilisation de l’imagerie drone multispectrale pour la modélisation spatiale de l’atténuation hydrodynamique par les prés-salés en milieu mégatidal", 3rd merIGéo, 23-26 November: 173-175.
- P26- TERNON, Q., Thiriet, P., Ysnel, F., **Collin, A.**, Danet, V., Bianchimani, O., Feunteun, E., 2020, "La photogrammétrie comme outil descriptif des écosystèmes rocheux subtidaux tempérés. Mieux décrire pour mieux comprendre : le cas de la Côte d’Émeraude", 3rd merIGéo, 23-26 November: 183-185.

- P25- James, D., **Collin, A.**, Mury, A., Gloria, H., Le Poulain, N., 2020, "Etude spatio-temporelle de la géomorphologie et de l'écologie d'un système dunaire par drone aérien", 3rd merIGéo, 23-26 November: 179-181.
- P24- **Collin, A.**, Letard, M., James, D., Mury, A., Pastol, Y., 2020, "Télé-détection des herbiers marins océaniques, méditerranéens et tropicaux par LiDAR topobathymétrique", 3rd merIGéo, 23-26 November: 135-138.
- P23- **Collin, A.**, James, D., Jeanson, M., Claudet, J., 2019, "Mapping tropical coastal social-ecological systems using unmanned airborne vehicle (UAV)", *Geological and Habitat Mapping*, 13-17 May.
- P22- Mury, A., **Collin, A.**, James, D., Pastol, Y., Etienne, S., 2019, "Spatially-explicit modelling of the salt-marsh wave attenuation using pressure measurements, UAV imagery and LiDAR data", *European Geophysical Union General Assembly*, 7-12 April.
- P21-Tokotoko, J., Flouvat, F., Goiran, C., Hedouin, L., **Collin, A.**, Selmaoui-Folcher, N., 2018, "Supervised classification of satellite images with spatially inaccurate training field data", 13th *IEEE International Conference on Data Mining Workshops (ICDMW)*, 17 November, 1381-1388.
- P20-Mury, A., **Collin, A.**, Etienne, S., 2018, "Wave Attenuation Service By Intertidal Coastal Ecogeosystems In the Bay Of Mont-Saint-Michel, France: Review And Meta-analysis", 6th *International Conference on Coasts and Estuaries*, 20-23 August.
- P19-Mury, A., Etienne, S., **Collin, A.**, 2018, "Wave attenuation service of saltmarshes and shelly cheniers: a spatio-temporal study in Mont-Saint-Michel Bay, France", *European Geophysical Union General Assembly*, 8-13 April.
- P18-Etienne, S., **Collin, A.**, James, D., 2018, "3D reconstruction of coral reef morphology using UAV, acoustic sonar and VHR satellite images: interests and limits of an integrated approach for natural hazards studies (Takapoto Atoll, French Polynesia)", *European Geosciences Union General Assembly*, 8-13 April.
- P17-**Collin, A.**, Dubois, S., James, D., Ramambason, C., Gloria, H., Feunteun, E., Etienne, S., 2018, "Complexité structurale des récifs biogéniques d'hermelles (*Sabellaria alveolata*) par drone aérien", 2nd merIGéo, 20-22 March : 23-26.
- P16-Feiss-Jéhel, C., Jéhel, P.J., Lamontagne, N., **Collin, A.**, 2018, "Lecture et décadage du paysage littoral: approches sensibles par deux pratiques artistiques", 4th *International Conference of Collège International des Sciences du Territoire*, 22-23 March: 239-246.
- P15-Tokotoko, J., Flouvat, F., Hedouin, L., Goiran, C., **Collin, A.**, Selmaoui-Folcher, N., 2018, "Prétraitement de données spatialement imprécises pour une classification supervisée basée sur les images satellitaires", 18th *International Conference of Extraction et Gestion des Connaissances*, 22-26 January: 167-178.
- P14-Harris, D.L., Rovere, A., Parravicini, V., Casella, E., Canavesio, R., Collin, A., 2016, "Healthy coral reefs may assure coastal protection in face of climate change related sea level rise", *American Geophysical Union Fall Meeting*, 12-16 December.
- P13-**Collin, A.**, Laporte, J., Koetz, B., Martin-Lauszer, F.R., Desnos, Y.L., 2016, "Mapping bathymetry, habitat and potential bleaching using Sentinel-2", 13th International Coral Reef Symposium 19-24 June, 51 Remote sensing of coral reefs: transitioning from developmental to operational: 416-430.
- P12-**Collin, A.**, Hench, J.L., 2015, "Extracting shallow bathymetry from very high resolution satellite spectral bands and a machine learning algorithm", *International Council for the Exploration of the Sea – ICES ASC* 21-25 September.
- P11-Hak, D., Nadaoka, K., **Collin, A.**, 2015, "Detecting coastal feature changes in Mekong delta using multi-temporal Landsat and Google earth Images", 18th *International Water Technology Conference - IWTC* 12-14 March.
- P10-Pouteau, R., **Collin, A.**, Archambault, P., Stoll, B., 2013, "Modeling reef health from upstream socio-ecological components using GIS and RS", *International Geoscience and Remote Sensing Symposium - IEEE International* 21-26 July, 306-309.
- P9-**Collin, A.**, Hench, J.L., Planes, S., 2012, "A novel spaceborne proxy for mapping coral cover", 12th *International Coral Reef Symposium* 9-13 July, 5A Remote sensing of reef environments.

- P8-**Collin, A.**, Planes, S., 2011, “What is the value added of 4 bands within the submetric remote sensing of tropical coastscape? QuickBird-2 vs WorldView-2?”, *IEEE International Geoscience and Remote Sensing Symposium*, 24-29 July, 2165-2168.
- P7-Aucoin, F., Long, B., Xhardé, R., **Collin, A.**, 2011, “Using airborne LiDAR bathymetry to map coastal hydrodynamic processes”, *Proceedings of the Coastal Sediments*, 2-6 May, 2479 - 2491.
- P6-Pouteau, R., **Collin, A.**, Stoll, B., 2011, “A Comparison of machine learning algorithms for classification of tropical ecosystems observed by multiple sensors at multiple scales”, *34th International Symposium for Remote Sensing of Environment*, Sydney, 10-15 April.
- P5-Long, B., Aucoin, F., Montreuil, S., Robitaille, V., Xhardé, R., **Collin, A.**, 2010, “Airborne LiDAR bathymetry applied to coastal hydrodynamic processes”, *Proceedings of the 32nd International Conference of Coastal Engineering – ICCE*, 30 June-5 July.
- P4-**Collin, A.**, Long, B., Archambault, P., 2008, “Relating spatial benthoscape patterns with a high resolution bathymetric LiDAR”, *Proceedings of the 31st International Conference of Coastal Engineering – ICCE*, 31 August- 5 September: 4645 - 4657.
- P3-**Collin, A.**, Long, B., Archambault, P., 2008, “The use of the SHOALS waveforms to mapping habitat within the seamless benthoscape”, *IEEE International Geoscience and Remote Sensing Symposium*, 6-11 July, II-1144 – II-1147.
- P2-**Collin, A.**, Cottin, A., Long, B., Kuus, P., Clarke, J.H., Archambault, P., Sohn, G., Miller, J., 2007, “Statistical classification methodology of SHOALS 3000 backscatter to mapping coastal benthic habitats”, *IEEE International Geoscience and Remote Sensing Symposium*, 23-28 July, 3178 - 3181.
- P1- Long, B., **Collin, A.**, Cottin, A., 2007, “What Optech’s bathymetric LiDAR sees underwater”, *IEEE International Geoscience and Remote Sensing Symposium*, 23-28 July, 3170 - 3173.

OTHER PEER-REVIEWED PUBLICATIONS

SIGNATORY

- S1- Ripple, W.J., Wolf, C., Newsome, T.M., Barnard, P., Moomaw, W.R., 2020, “World Scientists’ Warning of a Climate Emergency”, *BioScience*, 70(1), 8 - 12.

THESES

- T3- **Collin, A.**, 2019, “*Géo-écologie littorale: interactions entre structures spatiales et processus socio-écologiques*”, *Habilitation à Diriger des Recherches*. Ecole Pratique des Hautes Etudes – PSL Université, France, 131 p.
- T2- **Collin, A.**, 2009, “*Coalescence of the littoral landscape ecology and the ubiquitous airborne LiDAR*”, Thesis of Philosophiae Doctor of Sciences. University of Québec, Canada, 280 p.
- T1- **Collin, A.**, 2005, “*Connectivity and endemism in tropical seas: Case study of the hydrozoans in La Réunion Island*”, Thesis of Master of Sciences. University of Paris VI, France, 46 p.

TECHNICAL REPORTS

- R9- **Collin, A.**, James, D., 2023. Suivi topographique et d’occupation du sol du massif dunaire de l’Anse Du Guesclin: Acquisitions lidar et multispectrales par drone aérien et traitements photogrammétriques et lasergrammétriques, Rapport scientifique, Département Ille-et-Vilaine, France, 61 p.
- R8- **Collin, A.**, James, D., 2023. Suivi topographique et d’occupation du sol de la remise en eaux des Terrains François, Rapport scientifique, Ports de Normandie, France, 48 p.

- R7- LeQuilleuc, A., **Collin, A.**, Aubin, S., LeGoff, L., Mouget, A., David, V., Thiriet, P., James, D., Feunteun, E., 2023. Cartographie des profondeurs et des habitats marins sur le plateau des Roches-Douvres, Rapport scientifique, OFB, France, 38 p.
- R6- Husset, M.C., LeQuilleuc, A., David, V., Aubin, S., LeGoff, L., Guillaume, M., **Collin, A.**, Feunteun, E., 2023. Actualisation de l'évaluation des stocks de crépidules (*Crepidula fornicata*) en baie du Mont-Saint-Michel en 2022, Rapport scientifique, ACCETEM, France, 65 p.
- R5- **Collin, A.**, James, D., 2022. Suivi par orthomosaïque multispectrale et modèle numérique de surface de la reconnexion à la mer du polder de Beaussais sur Mer, Rapport scientifique, Conservatoire du Littoral, France, 113 p.
- R4- **Collin, A.**, 2017. Télédétection pour l'aquaculture, Rapport scientifique, XpertSEA, Canada, 43 p.
- R3- Hedley J., Giardino C., Kutser T., **Collin A.**, Brando V., Roelfsema C., Phinn S., Mumby P., 2016. *SEOM S2-4Sci Land and Water Project Sen2Coral Requirements Baseline and Preliminary ATBDs*, Scientific report, Argans, 44 p.
- R2- Etienne S., Jeanson M., **Collin A.**, 2015. *Les services écosystémiques de protection des dépôts sédimentaires en Baie du Mont-Saint-Michel*, Rapport scientifique, Conseil Général 35, 75 p.
- R1- **Collin, A.**, 2010, "Mapping of the coral reefscape and modeling the species diversity in Moorea (French Polynesia) using WorldView-2 imagery", EPHE, France, 127 p.

STUDENT JOURNAL

- Collin, A.**, 2003, "Mother-young relationships between the female in the genus *Schultesia* (Blattaria : Blaberidae : Zetoborinae) and the larva in the genus *Phoetelia* (Blattaria : Blaberidae)", *Biologos* (<http://biologos.univ-rennes1.fr/index.htm>), University of Rennes I, 13 p.

OTHER PUBLICATIONS

WEB PUBLICATIONS

- W4-**Collin, A.**, 2016, campaign blog "Sen2Coral in Fatu Huku", <http://esa.int/campaign>
- W3-**Collin, A.**, 2014, biography "Coastal scientist", <http://antoinecollin1.wix.com/coastal>
- W2-**Collin, A.**, 2011, biography "Coastal and Marine Ecology / Remote Sensing", <http://usr3278.univ-perp.fr/pagespro/?p=303>
- W1-**Collin, A.**, 2011, "Témoignages de diplômés, INRS Centre Eau Terre Environnement, Retour sur 10 années de formation, lauréat 2009", <http://10ans.ete.inrs.ca/temoignages/2009.html>

INVITED LECTURES & DEPARTMENTAL SEMINARS

- 41- **Collin, A.**, 2023, "MAinstreaming NATure BAsed Solutions through COASTal systems (MANABAS COAST)", International Meeting, Round Table, Beaussais-sur-mer, 12th October.
- 40- **Collin, A.**, 2023, "Etude de l'évolution du massif dunaire de l'Anse Du Guesclin", Comité de Pilotage, Communauté de Communes Côte d'Emeraude, Cancale, 27th September.
- 39- **Collin, A.**, 2022, "Ingénierie souple du trait de côte: géoécologie littorale", Atelier scientifique, Colloque Adapto, Saint-Malo, 1st December.
- 38- Lamontagne, N., **Collin, A.**, 2022, "Inoculation", C. ART Cartographies artistiques, Exarmas#19, Bordeaux, 9th November.
- 37- **Collin, A.**, 2022, "Coral reef spatial resilience", School of Geography and Environment, Oxford University, 11th May.

- 36- Lamontagne, N., **Collin, A.**, 2022, "La montée de l'océan : le regard de l'art et de la science" proposé dans le cadre des Rencontres du Parc Naturel Régional Vallée de la Rance et Côte d'Emeraude, 27th April.
- 35- **Collin, A.**, 2022, Echanges-débats "De la baie de Lancieux à la baie du Mont-Saint-Michel : l'évolution du trait de côte entre actions et prospective" proposés dans le cadre de la programmation de l'exposition "Le Signal de l'Océan. Une longue urgence", Rennes, 5th April.
- 34- **Collin, A.**, 2021, "Coastal GeoEcological Lab", AHAB-Leica-Hexagon seminar, Jönköping, 30th November.
- 33- Lamontagne, N., **Collin, A.**, 2020, "Recherche-Création Art-Science : mise en relief d'un paysage sensible", Mise en lumière, relief et mouvement du littoral, Dinard, 15 juin.
- 32- **Collin, A.**, 2020, "Structure et dynamique des habitats du continuum terre-mer à très haute résolution via le lidar topobathymétrique à forme d'onde complète", Plan de gestion des sédiments de la Rance, Dinard, 21 janvier.
- 31- **Collin, A.**, 2019, "Remote sensing for tropical waters: observing and modeling from 1 km to 1 m", MANACO seascape genomics workshop, Nouméa, New-Caledonia, 4-6th December.
- 30- Mury, A., **Collin, A.**, Jeanson, M., James, D., Gloria, H., Pastol, Y., Etienne, S., 2019. Modélisation de l'atténuation hydrodynamique par les systèmes littoraux, via les imageries LiDAR et multispectrales WorldView-3 à très haute résolution spatiale. Journée Jeunes Chercheurs - Action MACLEAN - GDR MaDICS, Paris, France, 2nd December.
- 29- LePoulain, N., **Collin, A.**, 2019, "Télé-détection optique active et passive à très haute résolution spatiale pour la classification des habitats littoraux normands", 7^{ème} séminaire scientifique du Réseau d'Observation du Littoral de Normandie et des Hauts-de-France, Caen, France, 26th September.
- 28- James, D., **Collin, A.**, 2019, "Produits et Méthodes de suivi spatio-temporel des hermelles", AFB, Parc Naturel marin de l'estuaire de la Gironde et de la mer des Pertuis, Oléron, France, 2nd July.
- 27- **Collin, A.**, James, D., 2019, "Cartographie de la submersion en Baie de Lancieux", LETG-Caen, Université de Caen, Caen, France, 28th May.
- 26- **Collin, A.**, 2018, "Télé-détection des récifs d'hermelles: avancées, limites et perspectives", DYNECO, IFREMER, Plouzané, France, 10th April.
- 25- **Collin, A.**, 2017, "Spatial resilience of coastal socio-ecology in France and China", South China Sea Institute of Oceanology, Chinese Academy of Sciences, Guangzhou, China, 20th November.
- 24- **Collin, A.**, 2016, "Campagne hydrographique STORISK à Takapoto (Tuamotu, Polynésie française)", University of La Rochelle, La Rochelle, 12th September.
- 23- **Collin, A.**, 2016, "Organisations spatiales et processus socio-écologiques dans des paysages récifaux coralliens", University of New Caledonia, Nouméa, 18th March.
- 22- Etienne, S., **Collin, A.**, Jeanson, M., 2015, "Étude des services éco-systémiques de protection des dépôts sédimentaires en baie du Mont-Saint-Michel", Ecology and Sustainable Development Scientific Committee, Rennes, 4th February.
- 21- **Collin, A.**, 2016, "Mission scientifique à Takapoto, archipel des Tuamotu, Polynésie française", STORISK, Ecole primaire publique de Temaramarama, Takapoto, 30th September.
- 20- **Collin, A.**, 2015, "Bathymetry mapping using spaceborne data", Zurich Institute of Technology, Zurich, 9th February.
- 19- **Collin, A.**, 2015, "Spatio-temporal patterns of a socio-ecosystem engineer in tropics", Zurich Institute of Technology, Zurich, 6th March.
- 18- **Collin, A.**, 2014, "La résilience des socio-écosystèmes littoraux inféodés aux récifs coralliens Japonais", Littoral Geomorphology and Environment Lab, Dinard, 18th December.
- 17- **Collin, A.**, 2014, "Linking spatio-temporal patterns of the coral reef socio-ecosystem in Japan", University of Ulster, Coleraine, 10th December.
- 16- **Collin, A.**, 2014, "Navigating the fellowship towards professorship: from coastal observation to ecological engineering", Tokyo Institute of Technology, Tokyo, 9th October.

- 15-**Collin, A.**, 2014, “The Spatial Resilience of Japanese Coral Reef Socio-Ecosystems”, Tokyo Institute of Technology, Tokyo, 27th May.
- 14-**Collin, A.**, 2014, “Coastal and Marine Landscapes from a Bird's Eye View”, KAUST, Thuwal, 20th April.
- 13-**Collin, A.**, 2014, “Re-connecting human society to coastal life using the spatial ecology”, JSPS Science dialogue, Kyoto Prefectural Yamashiro High school, Kyoto, Kyoto prefecture, 14th June.
- 12-**Collin, A.**, 2013, “Coral reef ecological service in a developed country (Nansei archipelago, Japan)”, Nadaoka lab, Tokyo Institute of Technology, Tokyo, 17th October.
- 11-**Collin, A.**, 2013, “From Vulnerability to Resilience Mapping of Coral Reef Socio-Ecosystems”, Nadaoka lab, Tokyo Institute of Technology, Tokyo, 11th April.
- 10-**Collin, A.**, 2013, “Linking human societies to coastal life using the spatial ecology”, JSPS Science dialogue, Takada High school, Joetsu-city, Niigata prefecture, 5th March.
- 9-**Collin, A.**, 2012, “Spatial resilience of the Nansei socio-ecological reefs”, Tokyo Institute of Technology, Tokyo, 29th November.
- 8-**Collin, A.**, 2012, “Ecologie du paysage récifal en Polynésie française”, Insular Research Centre and Environment Observatory, Moorea, 8th June.
- 7-**Collin, A.**, 2012, “Ecologie du paysage récifal/Reefscape ecology”, Lecture *Récifs coralliens /Coral Reefs* to Primary school teachers, Insular Research Centre and Environment Observatory, Moorea, 3th May.
- 6-**Collin, A.**, Chancerelle, Y., 2011, “L’étude du paysage récifal corallien au cœur du Pacifique sud : confluence du réseau Polynesia Mana et du satellite haute résolution”, Marine Protected Areas Agency, Brest, 30th March.
- 5-**Collin, A.**, 2011, “Salmon habitats targeted with bathymetric LiDAR”, NOAA, Santa Cruz, 11th January.
- 4- **Collin, A.**, 2011, “Télédétection et cartographie récifale/Remote sensing and reef mapping”, Lecture *Récifs coralliens /Coral Reefs* to secondary school teachers, Insular Research Centre and Environment Observatory, Moorea, 6th October.
- 3-**Collin, A.**, 2010, “L’écologie du paysage récifal via le prisme de la télédétection”, Insular Research Centre and Environment Observatory, Moorea, 28th May.
- 2-**Collin, A.**, 2010, “Cartographie du Parc Naturel Marin d’Iroise via le LiDAR bathymétrique”, Marine National Park of Iroise, Le Conquet, 11th March.
- 1-**Collin, A.**, 2010, “Cartographie des Aires marines et littorales par le LiDAR”, Marine Protected Areas Agency, Brest, 23th February.

PRESENTATIONS

ORAL

- 62- Helias, M., **Collin, A.**, Baillis du Bois, P., Gallon, R., 2023, “Apports de la télédétection pour l’étude des communautés de macroalgues intertidales”, Journées de la Société Phycologique de France, 13th December, Sète.
- 61- James, D., **Collin, A.**, 2023, “Photogrammétrie et lasergrammétrie par drone aérien sur la Côte d’Emeraude”, Journées du Réseau Drones et Cap, 8th November, Guerlédan.
- 60- **Collin, A.**, James, D., Lamontagne, N., Hardy, R., Conquet, J., Feunteun, E., 2023, “Contribution des infrarouges de l’Altum PT pour la classification des littoraux de carbone bleu”, Journées du Réseau Drones et Cap, 8th November, Guerlédan.
- 59- **Collin, A.**, James, D., Feunteun, E., Gallon, R., Poizot, E., 2023, “The use of ultra high resolution UAV lidar infrared intensity for enhancing coastal cover classification”, 5th International Electronic Conference on Remote Sensing, 7th November, MDPI: Basel, Switzerland.

- 58- **Collin, A.**, 2023, “Modélisation de la bathymétrie par Pléiades Neo en Baie de Saint-Malo : réseaux de neurones et transfert radiatif”, Séminaire Pléiades Neo: de nouveaux satellites pour de nouveaux usages, 5th October, Toulouse.
- 57- Palola, P., Varunan, T., Martinez-Vicente, V., **Collin, A.**, Stoll, B., Wright, R., Ward, M., Fioretti, A., Lopez Garcia, P., Giardino, C., Pinardi, M., Wedding, L., 2023, “Optical properties of a shallow coral reef environment in French Polynesia”, Symposium of the Trevor Platt Science Foundation, 9-11 August, Plymouth.
- 56- Ternon, Q., **Collin, A.**, Feunteun, E., Thiriet, P., Guillaume, M., Danet, V., Ysmel, F., 2023, “Local habitat characteristic structuring benthic community in circalittoral temperate rocky reefs, a photogrammetric based approach”, 7th European conference on Scientific Diving, 14-18 May, Roscoff.
- 55- James, D., **Collin, A.**, Feunteun, E., 2023, “Dynamique spatio-temporelle des écosystèmes de carbone bleu : cas d’étude sur la Côte d’Émeraude”, merIGéo, 14-16 March, Le Havre.
- 54- **Collin, A.**, Bulot, A., Pastol, Y., LeGoff, L., Feunteun, E., 2023, “Classification des habitats benthiques par segmentation sémantique d’imagerie optique et LiDAR ouverte : Ortho-Littorale et Litto3D en baie de Saint-Malo”, merIGéo, 14-16 March, Le Havre.
- 53- Lamontagne, N., **Collin, A.**, 2022, “Evolution of the sensitive connectivity in a salt marsh under metamorphosis”, International Geographic Union, 18-22 July, Paris.
- 52- Palola, P., **Collin, A.**, Malhi, Y., Pittman, S., Wedding, L., 2022, “Nutrientscape ecology: An integrative approach for studying nutrient connectivity in tropical coastal environments”, 15th International Coral Reef Symposium, 3-8 July, Bremen.
- 51- Letard, M., **Collin, A.**, Lague, D., Corpetti, T., Pastol, Y., Ekelund, A., 2022, “Using bispectral full waveform LiDAR to map seamless coastal habitats in 3D”, *ISPRS Congress*, 9 June, Nice.
- 50- Devillers, R., El Moussaoui, L., Lebreton, E., LeQuilleuc, A., Aubry, A., Claverie, T., **Collin, A.**, Lubac, Y., Schmitt, T., Jasinski, M., 2022, "Improving Seafloor and Marine Habitat Mapping in Data Poor Regions using ICESat-2 Satellite-based LiDAR and Very-high Resolution Imagery Fusion", *GeoHab*, 19 May, Venice.
- 49- Caline, B., **Collin, A.**, Pastol, Y., Letard, M., Feunteun, E., 2022, “New insights into the shallow morpho-sedimentary patterns using high-resolution topo-bathymetric LiDAR: the case study of the bay of Saint-Malo”, *EUCOMARE*, 19 May, Saint-Malo.
- 48- Pieuzat, B., Costa, S., Lissak, C., James, D., **Collin, A.**, Tessier, B., 2022, “The sanding-up of the Seine-Maritime intertidal area (Normandy, France): towards a high frequency monitoring using satellite image analysis”, *EUCOMARE*, 19 May, Saint-Malo.
- 47- **Collin, A.**, James, D., Mury, A., Letard, M., Houët, T., Gloria, H., Feunteun, E., 2022, “Multiscale spatiotemporal NDVI mapping of salt marshes using Sentinel-2, Dove and UAV imagery in the bay of Mont-Saint-Michel”, *EUCOMARE*, 18 May, Saint-Malo.
- 46- Ternon, Q., **Collin, A.**, Feunteun, E., Ysnel, F., Danet, V., Guillaume, M., Thiriet, P., 2022, “Local circalittoral rocky seascape structuring fish community: insights from a photogrammetric approach”, *EUCOMARE*, 18 May, Saint-Malo.
- 45- Le Quilleuc, A., **Collin, A.**, Devillers, R., 2022, “Very high resolution satellite-derived bathymetry and habitat mapping using Pléiades-1 and ICESat-2”, *EUCOMARE*, 18 May, Saint-Malo.
- 44- James, D., **Collin, A.**, Mury, A., Qin, R., 2022, “Satellite-derived topography at very high resolution for coastal habitat mapping: The Pléiades-1 tri-stereo enhancement”, *EUCOMARE*, 17 May, Saint-Malo.
- 43- Gairin, E., **Collin, A.**, James, D., Lecchini, D., 2022, “Spatiotemporal Trends of Bora Bora’s Shoreline Classification and Movement Using High-Resolution Imagery from 1955 to 2019”, *EUCOMARE*, 17 May, Saint-Malo.
- 42- Ternon, Q., **Collin, A.**, Feunteun, E., Thiriet, P., Danet, V., Guillaume, M., Ysnel, F., 2022, "Understanding relationship between biotopes and benthic communities in temperate rocky reefs: innovation using photogrammetry", *MARINEFF*, 3-5 May, Caen.

- 41- Gairin, E., Lecchini, D., **Collin, A.**, 2022, "Evolution du littoral de Bora-Bora de 1955 à 2019 et effet de l'urbanisation sur les zones de nurseries de poissons coralliens", *Les 8^{ème} rencontres de l'ichtyologie en France*, 15 March, Paris.
- 40- Feunteun, E., Ternon, Q., **Collin, A.**, 2022, "L'imagerie sous-marine, de la photogrammétrie aux satellites", *Les journées de la plongée*, 8 January, Paris.
- 39- Le Quilleuc, A., **Collin, A.**, Jasinski, M.F., Devillers, R., 2021, "Very High Resolution Satellite-Derived Bathymetry Mapping Using ICESat-2 and Pleiades-1", In *Remote Sensing of Shallow-Water Bathymetry: New Methods and New Science, Proceedings of the AGU Fall Meeting*, 17 December, New Orleans.
- 38- Letard, M., **Collin, A.**, Lague, D., Corpetti, T., Pastol, Y., Ekelund, A., Pergent, G., Costa, S., 2021, "Towards 3D mapping of seagrass meadows with topo-bathymetric LiDAR full-waveform processing", *IEEE International Geoscience and Remote Sensing Symposium*, 14 July, Brussels.
- 37- James, D., **Collin, A.**, Mury, A., Letard, M., Guillot, B., 2021, "UAV multispectral optical contribution to coastal 3D modelling", *IEEE International Geoscience and Remote Sensing Symposium*, 15 July, Brussels.
- 36- **Collin, A.**, Letard, M., Andel, M., Sharma, S., 2021, "Object-based mangrove mapping using submeter superspectral WorldView-3 imagery and deep convolutional neural network", *IEEE International Geoscience and Remote Sensing Symposium*, 14 July, Brussels.
- 35- Mury, A., **Collin, A.**, James, D., 2021, "Prospective 2050 : étude de cas sur l'évolution du service écosystémique de protection côtière", 16th SAGEO, 6 May, La Rochelle.
- 34- Letard, M., **Collin, A.**, James, D., Mury, M., 2021, "Trajectoire socio-écologique d'une commune de la Baie du Mont-Saint-Michel entre 1947 et 2014", 16th SAGEO, 6 May, La Rochelle.
- 33- Ternon, Q., Thiriet, P., Ysnel, F., **Collin, A.**, Danet, V., Guillaume, M., Bianchimani, O., Feunteun, E., 2020, "Photogrammetry as an efficient tool to survey marine coastal benthic biocenoses and biotopes of shallow rocky reefs", 12th Sea Tech Week 2020, 16 October, Brest.
- 32- **Collin, A.**, James, D., Letard, M., Mury, A., Ternon, Q., Thiriet, P., Ysnel F., Danet, V., Feunteun, E., Pastol, Y., 2020, "Very high resolution remote sensing of coastal habitats using topobathymetric LiDAR", 12th Sea Tech Week – Session Litto3D-, 14 October, Brest.
- 31- James, D., Mury, A., **Collin, A.**, Houet, T., Le Poulain, N., 2020, "Coupling UAV multispectral imagery and neural network to model the seagrass coastal protection service", 12th Sea Tech Week - Session MOQESM – 13 October, Brest, France.
- 30- Letard, M., **Collin, A.**, Pastol, Y., 2020, "Improving mangrove and salt marsh mapping using superpixel-based deep classification of VHR superspectral satellite imagery and topobathymetric LiDAR data", 12th Sea Tech Week 2020, 12 October, Brest.
- 29- **Collin, A.**, Letard, M., James, D., Mury, A., Pastol, Y., 2020, "Télé-détection des herbiers marins océaniques, méditerranéens et tropicaux par LiDAR topobathymétrique", *merIGéo*, 24-26 November.
- 28- Mury, A., **Collin, A.**, James, D., 2019, "Morpho-sedimentary monitoring in a coastal area, from 1D to 2.5D, using airborne drone imagery", Blue Drones workshop, 24 October.
- 27- **Collin, A.**, James, D., Claudet, J., 2019, "Modelling the connectivity of the coastal social-ecological networks subject to oceanic hazards", IALE World Congress 2019, 1-5 July.
- 26- **Collin, A.**, Andel, M., James, D., Claudet, J., 2019, "The superspectral/hyperspatial WorldView-3 as the link between spaceborne hyperspectral and airborne hyperspatial sensors: the case study of the complex tropical coast", *Geospatial Week 2019*, 10-14 June.
- 25- Mury, A., **Collin, A.**, Jeanson, M., Etienne, S., 2018, "Wave Attenuation Service By Intertidal Coastal Ecogeosystems In the Bay Of Mont-Saint-Michel, France: Review And Meta-analysis", 6th International Conference on Estuaries and Coasts, 20-23 August.
- 24- **Collin, A.**, Duvat, V., Pillet, V., Salvat, B., James, D., 2018, "Understanding Interactions between Shoreline Changes and Reef Outer Slope Morphometry on Takapoto Atoll (French Polynesia)", *International Coastal Symposium*, 13-18 May.

- 23- Etienne, S., **Collin, A.**, James, D., 2018, "3D reconstruction of coral reef morphology using UAV, acoustic sonar and VHR satellite images: interests and limits of an integrated approach for natural hazards studies (Takapoto Atoll, French Polynesia)", European Geosciences Union General Assembly, 8-13 April.
- 22- **Collin, A.**, Dubois, S., James, D., Ramambason, C., Gloria, H., Feunteun, E., Etienne, S., 2018, "Complexité structurale des récifs biogéniques d'hermelles (*Sabellaria alveolata*) par drone aérien", merIGéo, 20-22 March.
- 21- **Collin, A.**, Lambert, N., James, D., Etienne, S., 2018, "Cartographie de l'atténuation des vagues par le schorre en utilisant l'imagerie satellite WorldView-3", Uhinak : 3rd Cross border conference on climate and coastal change, 6-7 March.
- 20- Casella, E., Harris, D., Parravicini, V., Mann, T., **Collin, A.**, Lorscheid, T., Quasingah, P., Mensah-Senoo, T., Appeaning Addo, K., Drechsel, J., Rovere, A., 2016, "Low altitude remote survey of coastal areas using drones: some applications", GeoSUB-Underwater geology, 13-17 September.
- 19- Thiault, L., **Collin, A.**, Chlous, F., Claudet, J., 2016, "Place-based operationalization of the social-ecological vulnerability framework to foster social-ecological resilience", 13th International Coral Reef Symposium, 19-24 June.
- 18- **Collin, A.**, Etienne, S., Jeanson, M., 2016, "Three-dimensional structure of coral reef boulders transported by stormy waves using the very high resolution WorldView-2 satellite", International Coastal Symposium, 6-11 March.
- 17- Pouteau, R., **Collin, A.**, Archambault, P., Stoll, B., 2013, "Modeling reef health from upstream socio-ecological components using GIS and RS", International Geoscience and Remote Sensing Symposium - IEEE International 21-26 July.
- 16- **Collin, A.**, Nadaoka, N., 2013, "Vulnerability assessment of coral reef socio-ecosystems using a multi-scale approach in Okinawa, Japan", 35th International Symposium of Remote Sensing of Environment, 22-26 April.
- 15- **Collin, A.**, Etienne, S., 2013, "Mapping the geomorphic impacts of high-energy events on coral reefs using very high resolution remote sensing: a case study in French Polynesia", 12th International Coastal Symposium, Plymouth University, 8-12 April.
- 14- Etienne, S., **Collin, A.**, 2012, "Interest of Very High Resolution Remote Sensing for Coastal Boulder Studies: a Case Study on Tetiaroa Atoll, French Polynesia", 12th Asia Oceania Geoscience Symposium, 13-17 August.
- 13- **Collin, A.**, Hench, J.L., Planes, S., 2012, "A novel spaceborne proxy for mapping coral cover", 12th International Coral Reef Symposium - 9-13 July, 5A Remote sensing of reef environments.
- 12- Hench, J.L., Rosman, J.H., Yeakel, K.L., **Collin, A.**, 2012, "Understanding and parameterizing roughness in circulation models of coral reefs", 12th International Coral Reef Symposium, 9-13 July, 4A Water motion, abiotic and biotic processes on coral reefs.
- 11- **Collin, A.**, Long, B., Archambault, P., 2010, "Spatial predictability of species diversity and abundance of epimacrobenthos in turbid nearshore using bathymetric LiDAR", 11th GeoHab 2010, Wellington, 3-7th May.
- 10- Robitaille, V., Long, B., **Collin, A.**, 2009, "Accomplishments and outlooks", 11th annual scientific conference GEOIDE, Vancouver, 27-29th May.
- 9- **Collin, A.**, Long, B., Archambault, P., 2009, "LiDAR-assessed seamless littoral ecosystems in 2D and 3D", GeoHab 2009, Trondheim, Norway, 5-8th May.
- 8- **Collin, A.**, Long, B., Archambault, P., 2009, "The use of the bathymetric LiDAR for Nearshore Habitat Suitability Modelling", FUDOTERAM 2nd workshop, Québec city, 26-27th March.
- 7- **Collin, A.**, Long, B., Archambault, P., 2008, "Benthoscape mapping at speed of light", Meeting on FUDOTERAM project, Québec city, 27-28th November.
- 6- Long, B., Keramoal, Y., **Collin, A.**, Cottin, A., 2008, "A new approach to determine the bathymetry in a very shallow environment using the SHOALS 3000T signal", 5th International on high-resolution surveys in shallow water, Portsmouth, NH, 21-24th October.

- 5- **Collin, A.**, Long, B., Archambault, P., 2008, “Relating spatial benthoscape patterns with a high resolution bathymetric LiDAR”, International Conference of Coastal Engineering, Hamburg, 31 august- 5 September.
- 4- **Collin, A.**, Long, B., Archambault, P., 2008, “Mapping the coastal habitats: the SHOALS as a tremendous tool for benthoscape ecology”, 9th Annual Coastal Mapping and Charting Workshop, San Francisco, 17-19th June.
- 3- Long, B., Cottin, A., **Collin, A.**, 2008, “SHOALS-3000T Waveform Analysis for Sedimentary Seafloor Classification”, Coastal Zone Canada Conference, Vancouver, 25-29th May.
- 2- Cottin, A., **Collin, A.**, Long, B., 2007, “The FUDOTERAM Project: Various Analysis of the Pulse Waveform for Bottom Classification”, JALBTCX workshop, Seattle, 17-18th May.
- 1- **Collin, A.**, Long, B., Archambault, P., 2007, “SHOALS benthic habitat discrimination using multivariate analysis”, FUDOTERAM 1st workshop, Toronto, 27-28th March.

POSTER

- 45- James, D., **Collin, A.**, Lamontagne, N., Jeuffard, I., Le Gal, O., Feunteun, E., Duthion, D., Lebas, J.F., 2023, “Spatial and Temporal Monitoring of Dune System Evolution Using Drone-Based Lasergrammetry: The Case Study of Anse Du Guesclin (Brittany)”, Coast, 23-27th October, Caen.
- 44- Gallon, R., **Collin, A.**, James, D., Poizot, E., 2023, “Utilizing UAV and LiDAR Technology for Coastal Erosion Study: Importance of Sensor Calibration and Methodology Proposal”, Coast, 23-27th October, Caen.
- 43- **Collin, A.**, James, D., Lamontagne, N., Feunteun, E., Durozier, T., Hervouet, G., 2023, “Before/After the Submersion Process Using Planetscope Monthly Time-Series at High Spatial Resolution: The Case Study of Beaussais’ Marsh”, Coast, 23-27th October, Caen.
- 42- Lamontagne, N., **Collin, A.**, James, D., Feunteun, E., 2023, “The Cultural Interface Between Human Needs and Nature’s Integrity: The Case Study of Beaussais’ Marsh”, Coast, 23-27th October, Caen.
- 41- Le Quilleuc, A., **Collin, A.**, De Roton, G., Aubin, S., Le Goff, L., Mouget, A., David, V., Thiriet, P., James, D., Feunteun, E., 2023, “Large Scale & High-Resolution Mapping of Marine Benthic Habitats in Coastal Areas, a Tool for Marine Protected Area managers. The case of the Roches-Douvres Plateau, English Channel, Brittany, France”, Coast, 23-27th October, Caen.
- 40- **Collin, A.**, Palola, P., James, D., Pastol, Y., Monpert, C., Loyer, S., ... & Wedding, L., 2023, “Superdove-modelled bathymetry using neural networks along a turbidity gradient: Bréhat, Saint-Barthélémy and Tetiaroa islands”, ISPRS Geospatial week, 4 September, Cairo.
- 39- Alvarez-Vanhard, E., Liabot, P.-O., **Collin, A.**, James, D., Dubois, S., 2023, “Évaluation surfacique des récifs intertidaux à *Sabellaria alveolata* par drone aérien”, 4th merIGéo, 14-16 mars, Le Havre.
- 38- LeQuilleuc, A., Husset, M.-C., **Collin, A.**, Feunteun, E., 2023, “Cartographie prédictive d’un coquillage invasif via l’apprentissage automatique des données acoustiques multi-fréquentielles et vérités-terrain : *Crepidula fornicata* en Baie du Mont-Saint-Michel”, 4th merIGéo, 14-16 mars, Le Havre.
- 37- LeGal, O., **Collin, A.**, James, D., Dubois, S., 2023, “ Classifications satellitaires RaDAR et optiques des récifs biogéniques intertidaux : Sentinel-1, -2 et Pléiades-1 au service des hermelles (*Sabellaria alveolata*) du Parc naturel marin de l’estuaire de la Gironde et de la mer des Pertuis”, 4th merIGéo, 14-16 mars, Le Havre.
- 36- Jeuffard, I., **Collin, A.**, Duthion, G., 2023, “Suivi pluri-décennal rétrospectif et prospectif du trait de côte dunaire par imagerie multispectrale”, 4th merIGéo, 14-16 mars, Le Havre.
- 35- Palola, P., Varunan, T., Martinez-Vicente, V., **Collin, A.**, Stoll, B., Wright, R., Ward, M., Fioretti, A., Giardino, C., Pinardi, M., Malhi, Y., Thomson, E., Graham, N., Wedding, L., 2022, “Coral reef reflectance for remote sensing applications: a case study from French Polynesia”, 25th Annual Meeting of the Reef Conservation United Kingdom, London, 3rd December.

- 34- Alvarez-Vanhard, E., Liabot, P.-O., **Collin, A.**, James, D., Dubois, S., 2022, “Projet SISTER : Le suivi des récifs à *Sabellaria alveolata* par imagerie drone et I.A.”, Séminaire sur les habitats rocheux intertidaux et subtidaux de la façade Manche - Mer du Nord - Atlantique – 16-18 novembre 2022, Océanopolis, Brest.
- 33- **Collin, A.**, Andel, M., Lecchini, D., Palola, P., Wedding, L., 2022, "Submeter 3D ridge-to-reef classification using a WorldView-3 satellite stereoimagery", 15th International Coral Reef Symposium, 3-8 July, Virtual, A-1886.
- 32- **Collin, A.**, James, D., Feunteun, E., 2022, “Towards better coastal mapping using fusion of high temporal Sentinel-2 and PlanetScope-2 imageries: 12 bants at 3 m through neural network modelling”, *ISPRS Congress*, 7 June, Nice.
- 31- Bulot, A., **Collin, A.**, Letard, M., Feunteun, E., Le Goff, L., Pastol, Y., Caline, B., 2022, “Spatial modeling of the benthic geobiodiversity using topo-bathymetric LiDAR and neural networks”, *EUCOMARE*, 19 May, Saint-Malo.
- 30- **Collin, A.**, Pastol, Y., Letard, M., Le Goff, L., Guillaudeau, J., James, D., Feunteun, E., 2022, “Increasing the nature-based coastal protection using bathymetric LiDAR, terrain classification, network modelling: reefs of Saint-Malo’s lagoon”, *EUCOMARE*, 19 May, Saint-Malo.
- 29- Mury, A., **Collin, A.**, James, D., Letard, M., 2022, “Contribution of infrared wavebands to coastal ecogeomorphological systems’ mapping”, *EUCOMARE*, 19 May, Saint-Malo.
- 28- James, D., **Collin, A.**, Mury, A., Letard, M., Le Gal O., Le Quilleuc, A., 2022, “Very high-resolution monitoring and evaluation of tidal and ecological restoration in Beaussais’ Bay”, *EUCOMARE*, 19 May, Saint-Malo.
- 27- Palola, P., **Collin, A.**, Hernandez-Delgado, E., Pittman, S., Wedding, L., 2021, “Two decades of land cover change in the watersheds of NE Puerto Rico”, 14th International Coral Reef Symposium, 18-23 July, Virtual.
- 26- James, D., **Collin, A.**, Mury, A., Letard, M., 2021, “Enhancing UAV coastal mapping using infrared pansharepening”, XXIV ISPRS Congress, 6 July, Virtual.
- 25- **Collin, A.**, James, D., Mury, A., Letard, M., Guillot, B., 2021, “Predicting the infrared UAV imagery over the coast”, XXIV ISPRS Congress, 5 July, Virtual.
- 24- **Collin, A.**, Durozier, T., Hervouet, G., Costa, S., 2021, "Détecter le processus de dépoldérisation par l’observation satellite à très haute résolution temporelle", 16th SAGEO, 5-7 May.
- 23- James, D., **Collin, A.**, Letard, M., 2021, "Étude spatio-temporelle d’un écosystème littoral : le prés-salé de Sainte-Anne en baie du Mont-Saint-Michel", 16th SAGEO, 5-7 May.
- 22- Lochin, P., **Collin, A.**, James, D., Pastol, Y., Costa, S., 2020, “Blue carbon attenuation of future coastal risks related to extreme stream- and sea-water levels: the high-resolution 2D simulation as a management tool”, Uhinak: 4th Cross border conference on climate and coastal change, 4-5 November.
- 21- Mury, A., Houet, T., James, D., **Collin, A.**, 2020, "Utilisation de l’imagerie drone multispectrale pour la modélisation spatiale de l’atténuation hydrodynamique par les prés-salés en milieu mégatidal", 3rd merIGéo, 24-26 November.
- 20- Ternon, Q., Thiriet, P., Ysnel, F., **Collin, A.**, Danet, V., Bianchimani, O., Feunteun, E., 2020, "La photogrammétrie comme outil descriptif des écosystèmes rocheux subtidaux tempérés. Mieux décrire pour mieux comprendre : le cas de la Côte d’Émeraude", 3rd merIGéo, 24-26 November.
- 19- James, D., **Collin, A.**, Mury, A., Gloria, H., Le Poulain, N., 2020, "Etude spatio-temporelle de la géomorphologie et de l’écologie d’un système dunaire par drone aérien", 3rd merIGéo, 24-26 November.
- 18- **Collin, A.**, James, D., Jeanson, M., Claudet, J., 2019, “Mapping tropical coastal social-ecological systems using unmanned airborne vehicle (UAV)", *Geological and Habitat Mapping*, 13-17 May.
- 17- Mury, A., **Collin, A.**, James, D., Pastol, Y., Etienne, S., 2019, “Spatially-explicit modelling of the salt-marsh wave attenuation using pressure measurements, UAV imagery and LiDAR data”, *European Geophysical Union General Assembly*, 7-12 April.

- 16-Bitoun, R., **Collin, A.**, James, D., Pioch, S., 2018, "Modelling Saltmarsh Spatial Evolution at High Resolution from 1948 to 2100 (Beaussais's Bay, France)", International Coastal Symposium, 13-18 May.
- 15-Mury, A., Etienne, S., **Collin, A.**, 2018, "Wave attenuation service of saltmarshes and shelly cheniers: a spatio-temporal study in Mont-Saint-Michel Bay, France", European Geophysical Union General Assembly, 8-13 April.
- 14-Harris, D.L., Rovere, A., Parravicini, V., Casella, E., Canavesio, R., **Collin, A.**, 2016, "Healthy coral reefs may assure coastal protection in face of climate change related sea level rise", American Geophysical Union Fall Meeting, 12-16 December.
- 13-**Collin, A.**, Laporte, J., 2016, "El Nino impact on coral reefs of the central Pacific – Use of Sentinel-2, a test in the Marquesas", 13th International Coral Reef Symposium, 19-24 June.
- 12-Jeanson, M., Etienne, S., **Collin, A.**, 2016, "Wave attenuation and coastal protection by shelly ridges: Mont-Saint-Michel Bay, France", International Coastal Symposium, 6-11 March.
- 11-**Collin, A.**, Hench, J.L., 2015, "Extracting shallow bathymetry from very high resolution satellite spectral bands and a machine learning algorithm", International Council for the Exploration of the Sea – ICES ASC, Copenhagen, 21-25th September.
- 10-**Collin, A.**, Nadaoka, N., 2014, "Mapping the resilience of the coral reef socio-ecosystems in Japan", Ocean Sciences Meeting, Honolulu, 23-28th February.
- 9-**Collin, A.**, Planes, S., 2011, "What is the value added of 4 bands within the submetric remote sensing of tropical coastscape? QuickBird-2 vs WorldView-2?", International Geoscience and Remote Sensing Symposium - IEEE International, Vancouver, 24-29th July.
- 8-Pouteau, R., **Collin, A.**, Stoll, B., 2011, "A comparison of machine learning algorithms for classification of tropical ecosystems observed by multiple sensors at multiple scales", 34th International Symposium for Remote Sensing of Environment, Sydney, 10 - 15th April.
- 7-Barrell, J., Grant, J., Dowd, M., Lu, L., **Collin, A.**, Archambault, P., 2009, "Characterizing arctic intertidal landscape features (Baffin Island, Nunavut, Canada)."CHONe workshop, Montreal, 30th september-3rd october.
- 6-**Collin, A.**, Long, B., Archambault, P., 2008, "The use of the SHOALS waveforms to assess habitat complexity within the benthoscape", International Geoscience and Remote Sensing Symposium, Boston, 6-11th July.
- 5-**Collin, A.**, Long, B., Archambault, P., 2008, "The bathymetric LiDAR: an adequate tool devoted to benthoscape", 10th annual scientific conference GEOIDE, Niagara Falls, 28-30th May.
- 4-**Collin, A.**, Long, B., Archambault, P., 2008, "A new methodology to mapping coastal habitats: backscatters classification of the most accurate bathymetric LiDAR", Geologic Association of Canada – Mineralogic Association of Canada, Québec city, 26-28th May.
- 3-Cottin, A., **Collin, A.**, Long, B., 2007, "What Optech's bathymetric LiDAR sees underwater", International Geoscience and Remote Sensing Symposium, Barcelona, 23-28th July.
- 2-**Collin, A.**, Cottin, A., Long, B., Kuus, P., Clarke, J.H., Archambault, P., Sohn, G., Miller, J., 2007, "Statistical classification methodology of SHOALS 3000 backscatter to mapping coastal benthic habitats", International Geoscience and Remote Sensing Symposium, Barcelona, 23-28th July.
- 1-**Collin, A.**, Long, B., Archambault, P., 2007, "Statistical classification of SHOALS 3000 backscatter to mapping coastal benthic habitats", 9th annual scientific conference GEOIDE, Halifax, 6-9th June.