Liste des publications entre janvier 2022 et mai 2025

**Premier auteur :**

Oiry, S., Davies, B. F. R., Sousa, A. I., Rosa, P., Zoffoli, M. L., Brunier, G., Gernez, P., & Barillé, L. (2024). Discriminating seagrasses from green macroalgae in european intertidal areas using high-resolution multispectral drone imagery. *Remote Sensing*, *16*(23), 4383.

Oiry, S., Davies, B. F. R., Rosa, P., Zoffoli, M. L., Barillé A-L., Harin, N., Roman, M., Gernez, P., & Barillé, L. (Submitted). Heatwave impacts on intertidal seagrass reflectance: from laboratory experiment to satellite mapping of seagrass heat shock index.

**Co-auteur :**

Barillé, L., Paterson, I. L., Oiry, S., Aris, A., Cook-Cottier, E. J., & Nurdin, N. (2025). Variability of kappaphycus alvarezii cultivation in south-sulawesi (indonesia) related to the monsoon shift: Water quality, growth and colour quantification. *Aquaculture Reports*, *40*, 102557.

Zoffoli, M. L., Brando, V., Volpe, G., Vilas, L. G., Davies, B. F. R., Frouin, R., Pitarch, J., Oiry, S., Tan, J., Colella, S., et al. (2025). Ciao: A machine-learning algorithm for mapping arctic ocean chlorophyll-a from space. *Science of Remote Sensing*, 100212.

Davies, B. F. R., Oiry, S., Rosa, P., Zoffoli, M. L., Sousa, A. I., Thomas, O. R., Smale, D. A., Austen, M. C., Biermann, L., Attrill, M. J., et al. (2024a). Intertidal seagrass extent from sentinel-2 time-series show distinct trajectories in western europe. *Remote Sensing of Environment*, *312*, 114340.

Davies, B. F. R., Oiry, S., Rosa, P., Zoffoli, M. L., Sousa, A. I., Thomas, O. R., Smale, D. A., Austen, M. C., Biermann, L., Attrill, M. J., et al. (2024b). A sentinel watching over inter-tidal seagrass phenology across western europe and north africa. *Communications Earth & Environment*, *5*(1), 382.

Román, A., Oiry, S., Davies, B. F., Rosa, P., Gernez, P., Tovar-Sánchez, A., Navarro, G., Méléder, V., & Barillé, L. (2024). Mapping intertidal microphytobenthic biomass with very high-resolution remote sensing imagery in an estuarine system. *Science of the Total Environment*, *955*, 177025.

Davies, B. F. R., Gernez, P., Geraud, A., Oiry, S., Rosa, P., Zoffoli, M. L., & Barillé, L. (2023). Multi-and hyperspectral classification of soft-bottom intertidal vegetation using a spectral library for coastal biodiversity remote sensing. *Remote Sensing of Environment*, *290*, 113554.

Nurdin, N., Alevizos, E., Syamsuddin, R., Asis, H., Zainuddin, E. N., Aris, A., Oiry, S., Brunier, G., Komatsu, T., & Barillé, L. (2023). Precision aquaculture drone mapping of the spatial distribution of kappaphycus alvarezii biomass and carrageenan. *Remote Sensing*, *15*(14), 3674

Román, A., Prasyad, H., Oiry, S., Davies, B. F., Brunier, G., & Barillé, L. (2023). Mapping intertidal oyster farms using unmanned aerial vehicles (uav) highresolution multispectral data. *Estuarine, Coastal and Shelf Science*, *291*, 108432.

Zoffoli, M. L., Gernez, P., Oiry, S., Godet, L., Dalloyau, S., Davies, B. F. R., & Barillé, L. (2023). Remote sensing in seagrass ecology: Coupled dynamics between migratory herbivorous birds and intertidal meadows observed by satellite during four decades. *Remote Sensing in Ecology and Conservation*, *9*(3), 420–433.

Brunier, G., Oiry, S., Gruet, Y., Dubois, S. F., & Barillé, L. (2022). Topographic analysis of intertidal polychaete reefs (sabellaria alveolata) at a very high spatial resolution. *Remote Sensing*, *14*(2), 307.

Brunier, G., Oiry, S., Lachaussée, N., Barillé, L., Le Fouest, V., & Méléder, V. (2022). A machine-learning approach to intertidal mudflat mapping combining multispectral reflectance and geomorphology from uav-based monitoring. *Remote Sensing*, *14*(22), 5857.

Haro, S., Jesus, B., Oiry, S., Papaspyrou, S., Lara, M., González, C., & Corzo, A. (2022). Microphytobenthos spatio-temporal dynamics across an intertidal gradient using random forest classification and sentinel-2 imagery. *Science of The Total Environment*, *804*, 149983