List of publications

|  |
| --- |
| **Submitted / under revision articles**   1. \*Le Saint T., Nabucet J., Michéa D., Hubert-Moy L. and **Adeline** K. Assessing effects of drought and urbanization on urban trees using Sentinel-2 time series. Submitted in IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing.   **Peer-reviewed international/national journal articles (\* from student supervision)** |
| 1. \*Porterie M., Pilar Martín M., Burchard-Levine V., González-Cascón R., Démoulin R., **Adeline** K. and Briottet X. (2025). Combining Spectral Libraries and 3-D Radiative Transfer Modeling to Improve the Simulation of Phenology in Semi-Arid Grasslands. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, vol. 18, pp. 22441-22465, doi: 10.1109/JSTARS.2025.3599261. 2. \*Démoulin R., Gastellu-Etchegorry J.-P., Lefebvre S., Briottet X., Zhen Z., **Adeline** K., Marionneau M. and Le Dantec V. (2025). Modeling 3D radiative transfer for maize traits retrieval: A growth stage-dependent study on hyperspectral sensitivity to field geometry, soil moisture, and leaf biochemistry. Remote Sensing of Environment, Vol. 327, 114784, https://doi.org/10.1016/j.rse.2025.114784. 3. Colin E., Garcia-Caurel E., **Adeline** K., Plyer A. and Orlik X. (2024). Real-Time Observations of Leaf Vitality Extinction by Dynamic Speckle Imaging. Photonics, Vol. 11, No. 11, p. 1086, MDPI. https://doi.org/10.3390/photonics11111086 4. \* Le Saint T., Nabucet J., Hubert-Moy L. and **Adeline** K. (2024). Estimation of Urban Tree Chlorophyll Content and Leaf Area Index Using Sentinel-2 Images and 3D Radiative Transfer Model Inversion. Remote Sensing, 16(20), 3867. https://doi.org/10.3390/rs16203867 5. \* Le Saint T., Nabucet J., Lefebvre S., Gastellu-Etchegorry J. P., Hubert-Moy L. and **Adeline** K. (2024). Sensitivity Analysis of Sentinel-2 Imagery to Assess Urban Tree Functional Traits: A Physical Approach Based on Local Climate Zones. Remote Sensing, 16(23), 4402. https://doi.org/10.3390/rs16234402 6. \* Le Saint T., Nabucet J., Sulmon C., Pellen J., **Adeline** K. and Hubert-Moy L. (2024). A spatio-temporal dataset for ecophysiological monitoring of urban trees. Data in Brief, 57, 111010. https://doi.org/10.1016/j.dib.2024.111010 7. \* Ducasse E., **Adeline** K., Hohmann A., Achard V., Bourguignon A., Grandjean G. and Briottet X. (2024). Mapping of Clay Montmorillonite Abundance in Agricultural Fields Using Unmixing Methods at Centimeter Scale Hyperspectral Images. Remote Sensing, 16(17), 3211; <https://doi.org/10.3390/rs16173211>. 8. Yebra M., Scortechini G., **Adeline** K., Aktepe N., Almoustafa T., Bar-Massada A., Beget M.E., Boer M., Bradstock R., Brown T., Castro11 F.X., Chen R., Chuvieco E., Danson M., Ünal Değirmenci C., Delgado-Dávila R., Dennison P., Di Bella C., Domenech O., Féret J.-B., Forsyth G., Gabriel E., Gagkas Z., Gharbi F., Granda E., Griebel A., He B., Jolly M., Kotzur I., Kraaij T., Kristina A., Kütküt P., Limousin J.-M., Pilar Martín M., Monteiro A.T., Morais M., Moreira B., Mouillot F., Msweli S., Nolan R.H., Pellizzaro G., Qi Yi, Quan X., Resco de Dios V., Roberts D., Tavşanoğlu C., Taylor A., Taylor J., Tüfekcioğlu I., Ventura A. and Cardenas N.Y. (2024). Globe-LFMC 2.0, an enhanced and updated dataset for live fuel moisture content research. Scientific Data, 11, 332. https://doi.org/10.1038/s41597-024-03159-6 9. Briottet X., **Adeline** K., Bajjouk T., Carrère V., Chami M., Constans Y., Derimian Y., Dupiau A., Dumont M., Doz S., Fabre S., Foucher P. Y., Herbin H., Jacquemoud S., Lang M., Le Bris A., Litvinov P., Loyer S., Marion R, Minghelli A., Miraglio T., Sheeren D., Szymanski B., Romand F., Desjardins C., Rodat D., and Cheul B (2024). End-to-end simulations to optimize imaging spectroscopy mission requirements for seven scientific applications. ISPRS Open Journal of Photogrammetry and Remote Sensing, Volume 12, 100060, https://doi.org/10.1016/j.ophoto.2024.100060 10. K. **Adeline**, J.-B. Féret, H. Clenet, J.-M. Limousin, J.-M. Ourcival, F. Mouillot, S. Alleaume, A. Jolivot, X. Briottet, L. Bidel, E. Aria, A. Defossez, T. Gaubert, J. Giffard-Carlet, J. Kempf, D. Longepierre, F. Lopez, T. Miraglio, J. Vigouroux and M. Debue (2024). Multi-scale datasets for monitoring Mediterranean oak forests from optical remote sensing during the SENTHYMED/MEDOAK experiment in the north of Montpellier (France). Data in Brief, 53, 110185, https://doi.org/10.1016/j.dib.2024.110185 11. \* Gaubert T., **Adeline** K., Huesca M., Ustin S. and Briottet X (2024). Estimation of Oak Leaf Functional Traits for California Woodland Savannas and Mixed Forests: Comparison between Statistical, Physical, and Hybrid Methods Using Spectroscopy. Remote Sensing, 16(29), https://doi.org/10.3390/rs16010029 12. Roupioz, L., Briottet, X., **Adeline**, K., Al Bitar, A., Barbon-Dubosc, D., Barda-Chatain, R., Barillot P., Bridier S., Carroll E., Cassante C., Cerbelaud A., Déliot P., Doublet P., Dupouy P.-E., Gadal S., Guernouti S., De Guilhem De Lataillade A., Lemonsu A., Llorens R., Luhahe R., Michel A., Moussous A., Musy M., Nerry F., Poutier L., Rodler A., Riviere N., Riviere T., Roujean J.-L., Roy A., Schilling A., Skokovic D., & Sobrino, J. (2023). Multi-source datasets acquired over Toulouse (France) in 2021 for urban microclimate studies during the CAMCATT/AI4GEO field campaign. Data in Brief, 109109, <https://doi.org/10.1016/j.dib.2023.109109> 13. Briottet, X., Bajjouk, T., Chami, M., Delacourt, C., Feret, J. B., Jacquemoud, S., Minghelli, A., Sheeren, D., Weber, C., Fabre, S., **Adeline**, K., Vaudour, E., Luque, S., Deville, Y., Soudani, K., & Verpooter, C. (2022). BIODIVERSITY–Une Nouvelle Mission Spatiale Pour Le Suivi Des Ecosystèmes A Une Echelle Fine, BIODIVERSITY–A new space mission to monitor Earth ecosystems at fine scale. Revue Française de Photogrammétrie et de Télédétection, 224(1), pp. 33-58, https://doi.org/10.52638/rfpt.2022.568 14. \* Miraglio, T., **Adeline**, K., Huesca, M., Ustin, S., & Briottet, X. (2022). Assessing vegetation traits estimates accuracies from the future SBG and biodiversity hyperspectral missions over two Mediterranean Forests. International Journal of Remote Sensing, 43(10), 3537-3562, https://doi.org/10.1080/01431161.2022.2093143. 15. \* Michel, A., Granero-Belinchon, C., Cassante, C., Boitard, P., Briottet, X., **Adeline**, K. R., Poutier L., & Sobrino, J. A. (2021). A New Material-Oriented TES for Land Surface Temperature and SUHI Retrieval in Urban Areas: Case Study over Madrid in the Framework of the Future TRISHNA Mission. Remote Sensing, 13(24), 5139, <https://doi.org/10.3390/rs13245139>. 16. \* Miraglio, T., Huesca, M., Gastellu-Etchegorry, J. P., Schaaf, C., **Adeline**, K. R., Ustin, S. L., & Briottet, X. (2021). Impact of modeling abstractions when estimating leaf mass per area and equivalent water thickness over sparse forests using a hybrid method. Remote sensing, 13(16), 3235, https://doi.org/10.3390/rs13163235. 17. **Adeline**, K. R., Briottet, X., Lefebvre, S., Rivière, N., Gastellu-Etchegorry, J. P., & Vinatier, F. (2021). Impact of Tree Crown Transmittance on Surface Reflectance Retrieval in the Shade for High Spatial Resolution Imaging Spectroscopy: A Simulation Analysis Based on Tree Modeling Scenarios. Remote Sensing, 13(5), 931, https://doi.org/10.3390/rs13050931. 18. \* Granero-Belinchon, C., **Adeline**, K., & Briottet, X. (2021). Impact of the number of dates and their sampling on a NDVI time series reconstruction methodology to monitor urban trees with Venμs satellite. International Journal of Applied Earth Observation and Geoinformation, 95, 102257, https://doi.org/10.1016/j.jag.2020.102257. 19. \* Miraglio, T., **Adeline**, K., Huesca, M., Ustin, S., & Briottet, X. (2020). Joint use of PROSAIL and DART for fast LUT building: Application to gap fraction and leaf biochemistry estimations over sparse oak stands. Remote sensing, 12(18), 2925, https://doi.org/10.3390/rs12182925. 20. \* Ducasse, E., **Adeline**, K., Briottet, X., Hohmann, A., Bourguignon, A., & Grandjean, G. (2020). Montmorillonite estimation in clay–quartz–calcite samples from laboratory SWIR imaging spectroscopy: A comparative study of spectral preprocessings and unmixing methods. Remote Sensing, 12(11), 1723, https://doi.org/10.3390/rs12111723. 21. \* Granero-Belinchon, C., **Adeline**, K., Lemonsu, A., & Briottet, X. (2020). Phenological dynamics characterization of alignment trees with Sentinel-2 imagery: A vegetation indices time series reconstruction methodology adapted to urban areas. Remote Sensing, 12(4), 639, https://doi.org/10.3390/rs12040639 22. \* Miraglio, T., **Adeline**, K., Huesca, M., Ustin, S., & Briottet, X. (2019). Monitoring LAI, chlorophylls, and carotenoids content of a woodland savanna using hyperspectral imagery and 3D radiative transfer modeling. Remote Sensing, 12(1), 28, <https://doi.org/10.3390/rs12010028>. 23. Bellvert, J., **Adeline**, K., Baram, S., Pierce, L., Sanden, B. L., & Smart, D. R. (2018). Monitoring crop evapotranspiration and crop coefficients over an almond and pistachio orchard throughout remote sensing. Remote Sensing, 10(12), 2001, <https://doi.org/10.3390/rs10122001>. 24. Aval, J., Demuynck, J., Zenou, E., Fabre, S., Sheeren, D., Fauvel, M., **Adeline** K. & Briottet, X. (2018). Detection of individual trees in urban alignment from airborne data and contextual information: A marked point process approach. ISPRS Journal of Photogrammetry and Remote Sensing, 146, 197-210, https://doi.org/10.1016/j.isprsjprs.2018.09.016. 25. **Adeline**, K. R. M., Briottet, X., Ceamanos, X., Dartigalongue, T., & Gastellu-Etchegorry, J. P. (2018). ICARE-VEG: A 3D physics-based atmospheric correction method for tree shadows in urban areas. ISPRS Journal of Photogrammetry and Remote Sensing, 142, 311-327, <https://doi.org/10.1016/j.isprsjprs.2018.05.015>. 26. Gomez, C., **Adeline**, K., Bacha, S., Driessen, B., Gorretta, N., Lagacherie, P., Roger, J.-M., & Briottet, X. (2018). Sensitivity of clay content prediction to spectral configuration of VNIR/SWIR imaging data, from multispectral to hyperspectral scenarios. Remote Sensing of Environment, 204, 18-30, https://doi.org/10.1016/j.rse.2017.10.047. 27. **Adeline**, K. R., Gomez, C., Gorretta, N., & Roger, J. M. (2017). Predictive ability of soil properties to spectral degradation from laboratory Vis-NIR spectroscopy data. Geoderma, 288, 143-153, <https://doi.org/10.1016/j.geoderma.2016.11.010>. 28. **Adeline**, K. R., Chen, M., Briottet, X., Pang, S. K., & Paparoditis, N. (2013). Shadow detection in very high spatial resolution aerial images: A comparative study. ISPRS Journal of Photogrammetry and Remote Sensing, 80, 21-38, <https://doi.org/10.1016/j.isprsjprs.2013.02.003>. 29. **Adeline**, K. R., Le Bris, A., Coubard, F., Briottet, X., Paparoditis, N., Viallefond, F., Rivière, N., Papelard, J.-P., Déliot, P., Duffaut, J., Airault, S., David, N., Maillet, G., Poutier, L., Foucher, P.-Y., Achard, V., Souchon, J.-P., & Thom, C. (2013). Description de la campagne aéroportée UMBRA: étude de l'impact anthropique sur les écosystèmes urbains et naturels avec des images THR multispectrales et hyperspectrales. Revue française de photogrammétrie et de télédétection, (202), 79-92, https://doi.org/10.52638/rfpt.2013.53. |
|  |
| **Communications to international conferences** |
| 1. **Adeline** K., Briottet X., Féret J.-B., De Boissieu F., Gastellu-Etchegorry J.-P., Wang Y., Vincent G., Limousin J.-M. and Debue M. Retrieval of Mediterranean forest traits using hybrid inversion: a comparison of multi sensor and radiative transfer modeling, Living Planet Symposium, 23-27th June, Vienna Austria, poster. 2. Le Saint T., Nabucet J., Michéa D., Hubert-Moy L. and **Adeline** K. Assessing effects of meteorological drought and urbanization on urban trees using Sentinel-2 time series, Living Planet Symposium, 23-27th June, Vienna Austria, poster. 3. Démoulin R., Gastellu-Etchegorry J.-P., Lefebvre S., Briottet X., Zhen Z., **Adeline** K., Marionneau M. and Le Dantec V. 3D Radiative Transfer Modeling for Maize Traits Retrieval Across Different Growth Stages: Exploring the Complementarity of Sentinel-2 and CHIME, Living Planet Symposium, 23-27th June, Vienna Austria, poster. 4. Porterie M., Martín M.P., Burchard-Levine V., González-Cascón R., Démoulin R., **Adeline** K. and Briottet X. Understanding underlayer dynamics of a fire-prone Mediterranean Tree-Grass Ecosystem (TGE) using In Situ Data, a 3D Radiative TransferModel andmulti-scale remote sensing data, Living Planet Symposium, 23-27th June, Vienna Austria, poster. 5. Briottet X. **et al.** BIODIVERSITY – End-user driven optimization of the SWIR spectral sampling for a future hyperspectral sensor using end-to-end simulations, 3rd Workshop on International Cooperation in Spaceborne Imaging Spectroscopy – Hyperspectral 2024, 13-15th November 2024, ESA-ESTEC, Noordwijk, the Netherland. 6. Démoulin R., Gastellu-Etchegorry J.-P., Lefebvre S., Briottet X., **Adeline** K., Zhen Z., Marionneau M. and Le Dantec V. Consideration of Canopy Architecture at different Growth stages For Crop Monitoring With Hyperspectral Remote Sensing: a Case Study for Maize, RAQRS, 23-27th September 2024, Valencia, Spain, oral. 7. **Adeline** K., Féret J.-B., Clenet H., Limousin J.-M., Ourcival J.-M., Mouillot F., Alleaume S., Jolivot A., Briottet X., Bidel L., Aria E., Defossez A., Gaubert T., Giffard-Carlet J., Kempf J., Longepierre D., Lopez F., Miraglio T., Vigouroux J. and Debue M. SENTHYMED/MEDOAK multi-scale experiment to validate Sentinel-2 and imaging spectroscopy vegetation products over French Mediterranean oak forests, RAQRS, 23-27th September 2024, Valencia, Spain, poster. 8. Mathilda P., Pilar Martin M., Burchard-Levine V., Gonzalez-Cascon R., **Adeline** K. and Briottet X. Influence of DART and PROSPECT-PRO parameters to accurately simulate phenological mixed understory in open Mediterranean forest, IGARSS, 7-12th July 2024, Athens, Greece, oral. 9. **Adeline** K., Burchard-Levine V., Andreu A., Krapez J.-C., Chatelard C., Baldocchi D. and Ustin S. Comparison between the trapezoid method and two energy balance models (TSEB and 3SEB) to estimate evapotranspiration of a tree-grass ecosystem, EGU, 14-19th April 2024, Vienna, Austria, poster. 10. Démoulin R., Gastellu-Etchegorry J.-P., Briottet X., Marionneau M., Zhen Z., **Adeline** K. and Le Dantec V. Hyperspectral Remote Sensing And 3D Radiative Transfer Modelling For Maize Crop Monitoring, 13th EARSeL Workshop on Imaging Spectroscopy, 16-18th April 2024, Valencia, Spain, oral. 11. Briottet X., et al. End-To-End Simulations to Optimize Hyperspectral Mission Requirements For 7 Scientific Applications, 13th EARSeL Workshop on Imaging Spectroscopy, 16-18th April 2024, Valencia, Spain, oral. 12. Debue M., Vincent G., Alleaume S., de Boissieu F., Briottet X., Féret J.-B., Gastellu-Etchegorry J.-P., Limousin J.-M., Longepierre D. and **Adeline** K. Adequacy of Mediterranean forest simulations from DART radiative transfer model and UAV laser scanning data to multi- and hyperspectral images, SPIE, 3-6th September 2023, Amsterdam, Netherlands, oral and proceeding, Remote Sensing for Agriculture, Ecosystems, and Hydrology XXV, https://doi.org/10.1117/12.2678531 13. Le Saint T., Nabucet J., Lefebvre S., **Adeline** K. and Hubert-Moy L. Sensitivity analysis of Sentinel-2 data for urban tree characterization using DART model, SPIE, 3-6th September 2023, Amsterdam, Netherlands, oral and proceeding, Remote Sensing Technologies and Applications in Urban Environments VIII, 127350H, https://doi.org/10.1117/12.2680259 14. Gaubert T., **Adeline** K., Huesca M., Ustin S. and Briottet X. Inversion of radiative transfer model through one-dimensional convolutional neural network to retrieve foliar traits of temperate forest canopies with imaging spectroscopy, IGARSS, 16-21th July 2023, Pasadena, CA, USA, oral and proceeding, IEEE, pp. 4903-4906, doi: 10.1109/IGARSS52108.2023.10282458. 15. Everaere E., **Adeline** K., Riviere N. and Ferrand T. Tree 3D Mock-Up from LiDAR data and Ground Truth for joint Optics and Radar remote sensing simulations, IGARSS, 16-21th July 2023, Pasadena, CA, USA, oral and proceeding. 16. Féret J.-B., Giffard-Carlet J., Alleaume S., Briottet X., Chéret V., Clénet H., Denux J.-P., Gastellu-Etchegorry J.-P., Jolivot A., Limousin J.-M., Mouillot F., Ourcival J.-M. and K. **Adeline**. Estimating functional traits in Mediterranean ecosystems using spectroscopy from leaf to canopy scale, 2nd Workshop on International Cooperation in Spaceborne Imaging Spectroscopy, 19-21th October 2022, Frascati, Italy, oral. 17. Ollivier S., **Adeline** K., Lefebvre S. and Briottet X. Reflectance correction in tree shadows in high spatial resolution imaging spectroscopy using radiative transfer simulations and machine learning, 19-23th September 2022, RAQRS, Valence, Spain, poster presentation given by K. Adeline on behalf of the intern S. Ollivier. 18. Michel A., Granero-Belinchon C., Roupioz L., Briottet X., Cassante C., Boitard P., **Adeline** K., Poutier L. and Sobrino J. LST and SUHI retrieval with a material-oriented Temperature and Emissivity Separation algorithm for airborne and spaceborne thermal sensors, 19-23th September 2022, RAQRS, Valence, Spain, oral. 19. Briottet X., **Adeline** K., Bajjouk T., Carrère V., Chami M., Constans Y., Dupiau A., Dumont. M., Fabre S., Féret J.-B., Foucher P.-Y, Gomez C., Herbin H., Jacquemoud S., Le Dantec V., Le Bris A., Marion R., Minghelli A., Miraglio T., Sheeren D., Szymanski B., Verpoorter, C., Desjardin C. and Rodat D. BIODIVERSITY – Status of a new hyperspectral space mission, Living Planet Symposium, 23-27th May 2022, Bonn, Germany. 20. Briottet X., **Adeline** K., Bajjouk T., Carrère V., Chami M., Constans Y., Dupiau A., Dumont M., Doz S., Fabre S., Féret J.-B., Foucher P.-Y., Gomez C., Herbin H., Jacquemoud S., Lang M., Le Bris A., Le Dantec V., Loyer S., Marion R., Minghelli A., Miraglio T., Sheeren D., Szymanski B., Verpoorter, C., Romand F., Desjardins C., Rodat D. and Cheul B. BIODIVERSITY – Status of a new hyperspectral space mission, 19-23th September 2022, RAQRS, Valence, Spain, oral. 21. Michel A., Granero-Belinchon C., Roupioz L., Briottet X., Cassante C., Boitard P., **Adeline** K., Poutier L. and Sobrino S. LST retrieval with a material-oriented TES for TRISHNA: the specific case of urban areas, TRISHNA DAYS 2022, 22-24th March, Toulouse, France, oral. 22. Gaubert T., **Adeline** K., Huesca M., Ustin S., Briottet X. Assessing the robustness of inversion methods to estimate leaf traits from leaf spectra of mixed broadleaf/conifer ecosystem, 40th EARSeL Symposium European Remote Sensing - New Solutions for Science and Practice, 7–10th June 2021, Warsaw, Poland, virtual presentation. 23. Miraglio T., **Adeline** K., Huesca M., Ustin S. and Briottet X. Assessing the vegetation traits retrieval capabilities of the Biodiversity and SBG hyperspectral missions over open canopies, 40th EARSeL Symposium European Remote Sensing - New Solutions for Science and Practice, 7–10th June 2021, Warsaw, Poland, virtual presentation. 24. Miraglio T., **Adeline** K., Briottet X., Huesca M. and Ustin S. Fast LUT Building by Combining PROSAIL and DART: Application to Gap Fraction and Leaf Pigments Estimations over a Woodland Savanna, AGU Fall Meeting, 1-17th December 2020, online poster. 25. **Adeline** K., Miraglio T., Briottet X., Gastellu-Etchegorry J.-P., Huesca Martinez M., Ustin S. and Baldocchi D. Monitoring Blue Oak Traits in a Woodland Savanna through California Drought by using AVIRIS Imagery from 2013 to 2018, AGU Fall Meeting, 9-13th December 2019, San Francisco, CA, USA, poster. 26. **Adeline** K., Miraglio T., Schmitt J.-V., Briottet X., Gastellu-Etchegorry J.-P., Ustin S., Huesca M., Roth K. and Baldocchi D. Impact Of Environmental And Tree Structural Parameters On The Estimation Of Biochemical Properties For A Sparse Mediterranean Forest With AVIRIS Imagery. 11th EARSeLWorkshop on Imaging Spectroscopy, 6-8th February 2019, Brno, Czech Republic, poster. 27. **Adeline** K., Miegebielle V. and Larrey M. Impact Of The Spatial Resolution For Mineralogical Mapping From Hyperspectral Sensors HySpex, HYPXIM And EnMAP: Application To The Almeria Sedimentary Basin, Spain. 11th EARSeLWorkshop on Imaging Spectroscopy, 6-8th February 2019, Brno, Czech Republic, oral. 28. Ducasse E., Hohmann A., **Adeline** K., Oltra-Carrió R., Bourguignon A., Deliot P., Briottet X. and Grandjean G. Unmixing of mineralogical clay intimate mixtures with laboratory hyperspectral data. IGARSS, 22-27th July 2018, Valencia, Spain, poster. 29. Bellvert J, Baram S, **Adeline** K, Pierce L, Smart D.R. Monitoring the crop evapotranspiration and water status with high resolution remote sensing images: a case over an almond and pistachio orchard. VII International Symposium on Almond and Pistachio. ISHS, 5-9th November 2017, Adelaide, Australia, oral. 30. **Adeline** K., Michel A., Briottet X., Lagouarde J.-P. and Sobrino J.A. Challenges of the franco-indian multispectral thermal spatial mission for urban heat islands monitoring. RAQRS, 18-22th September 2017, Torrent (Valencia), Spain, oral. 31. Bellvert J., Nieto H., Baram S., **Adeline** K., Smart D.R. andZarco-Tejada P. Estado actual de la teledetectiontermica para la deteccion del estadohidrico de loscultivos. XXXV Congreso Nacional de Riegos, May 2017, oral. 32. Ducasse E., Hohmann A., **Adeline** K., Oltra-Carrió R., Bourguignon A., Briottet X. and Grandjean G. Clay minerals abundances estimation under hyperspectral laboratory data. 10th EARSeLWorkshop on Imaging Spectroscopy, 19-21th April 2017, Zurich, Switzerland, oral. 33. Ceamanos X., Briottet X., Roussel G., Gilardy H. and **Adeline** K. Using 3D information for atmospheric correction of airborne hyperspectral images of urban areas. JURSE, 6-8th March 2017, Dubai, United Arab Emirates, poster and proceeding, IEEE, pp. 1-4, doi: 10.1109/JURSE.2017.7924563. 34. **Adeline** K.R.M., K. Roth, M. Huesca, J.P. Gastellu-Etchegorry, D. Baldocchi and S. Ustin. Spectral sensitivity of radiative transfer inversion for seasonal canopy pigments estimation from AVIRIS data in a woodland savanna ecosystem. WHISPERS, 21-24th August 2016, Los Angeles, CA, USA, oral and proceeding, IEEE, pp. 1-5, doi: 10.1109/WHISPERS.2016.8071713. 35. **Adeline** K.R.M., Ustin S., Roth K., Huesca M., Schaaf C., Baldocchi D. and Gastellu-Etchegorry J.P. The Role of Species, Structure, and Biochemical Traits in the Spatial Distribution of a Woodland Community. AGU Fall Meeting, 14-18th December 2015, San Francisco, CA, USA, oral. 36. Ustin S., Roth K., Huesca M., Casas A., **Adeline** K., Drewry D., Koltunov A. and Ramirez C. Multiyear Multiseasonal Changes in Leaf and Canopy Traits Measured by AVIRIS over Ecosystems with Different Functional Type Characteristics Through the Progressive California Drought 2013-2015 (Invited). AGU Fall Meeting, 14-18th December 2015, San Francisco, CA, USA, oral. 37. **Adeline**, K., Ustin S., Roth K., Huesca M., Casas A., Koltunov A. and Ramirez C. Identification of plant functional types by characterization of canopy chemistry using an automated advanced canopy radiative transfer model. HyspIRI Science and Applications Workshop, 13-15th October 2015, Pasadena, CA, USA, oral given by K. Adeline on behalf of Pr. S. Ustin. 38. **Adeline** K.R.M. and Briottet X. Urban land cover mapping with hyperspectral airborne data at very high spatial resolution: the challenges for atmospheric correction in shaded areas. RAQRS, 22-26th September 2014, Torrent (Valencia), Spain, poster. 39. **Adeline** K.R.M., Gomez C., Gorretta N. and Roger J.-M. Sensitivity of soil property prediction obtained from VNIR/SWIR data to spectral configurations. RAQRS, 22-26th September 2014, Torrent (Valencia), Spain, poster. 40. **Adeline** K.R.M., Briottet X., Gastellu-Etchegorry J.-P. and Levebvre S. ICARE-VEG: a new atmospheric correction method dedicated to the improvement of material reflectance retrieval in shadows cast by isolated trees. GV2M, 3-7th February 2014, Avignon, France, poster. 41. **Adeline** K.R.M., X. Briottet, N. Paparoditis and J.-P. Gastellu-Etchegorry. Material reflectance retrieval in urban tree shadows with physics-based empirical atmospheric correction. JURSE, 31-23th April 2013, São Paulo, Brazil, oral and proceeding, IEEE, pp. 279-283, doi: 10.1109/JURSE.2013.6550719. 42. **Adeline** K.R.M., Le Bris A., Coubard F., Briottet X., Paparoditis N., Viallefont F., Rivière N., Papelard J.-P., Déliot P., Duffaut J., Airault S., David N., Maillet G., Poutier L., Foucher P.-Y., Achard V., Souchon J.-P. and Thom C. Urban material characterization in the sun and the shade of built-up structures and trees and their retrieval from airborne image acquisitions (UMBRA) over two French cities. 8th EARSeL Imaging Spectroscopy Workshop, 8-10th April 2013, Nantes, France, oral. 43. **Adeline** K.R.M., X. Briottet and N. Paparoditis. Material reflectance retrieval in shadow due to urban vegetation from 3D lidar data and hyperspectral airborne imagery. 32nd EARSeL symposium, 31-24th May 2012, Mykonos, Greece, oral and proceeding, Journal of Advances in Geoscience, Konstantinos Perakis & Athanasios Moysiadis, Editors, pp. 308-317. |
|  |
| **Communications to national conferences and seminars** |
| 1. Le Saint T., Nabucet J., Michéa D., Hubert-Moy L. and **Adeline** K. Évaluation des effets de la sècheresse et de l’urbanisation sur les arbres urbains à partir de séries temporelles d’images Sentinel-2, TEMU, 1-2nd April, 2025, Lyon, France, oral. 2. **Adeline** K., Sikora N., Feret J.-B., Jay S., Roth M., Corre M.-N., Serino S., Serra V., Vercambre G., Barra Q. and Marlet N. An inter-comparison exercise between spectrometers and handheld sensors to assess biochemical traits of orchard tree leaves, 10th symposium of SFPT-GH, 5-7 May, 2025, Grasse, France, oral. 3. Tardy H., Boucher Y., Doz S. and Sikora N. Impact de la qualité du modèle numérique de surface pour la correction géométrique d’images hyperspectrales à très haute résolution spatiale, 10th symposium of SFPT-GH, 5-7 May, 2025, Grasse, France, oral. 4. **Adeline** K., Sikora N., Segaud J.-P., Jay S., Féret J.-B., Serino S., Dumont D., Vercambre G., Corre M.-N. and Roth M. Determining the leaf biochemical and phytosanitary status of orchard trees using spectroscopy from visible to long wave infrared range, 20th HelioSPIR meeting , 11-12th June, 2024, Montpellier, France, oral. 5. Démoulin R., Gastellu-Etchegorry J.-P., Lefebvre S., Briottet X., **Adeline** K., Zhen Z., Marionneau M. and Le Dantec V. Prise en compte de l’architecture du couvert végétal à différents stades de développement pour le suivi des cultures par télédétection hyperspectrale : cas d’étude du maïs, 9th symposium of SFPT-GH, 30-31th May, 2024, Rennes, France, oral. 6. **Adeline** K., Ducasse E., Hohmann A., Achard V., Bourguignon A., Grandjean G. and Briottet X. Cartographie de la montmorillonite par démélange d’images hyperspectrales à l’échelle centimétrique : cas de champs agricoles labourés, 9th symposium of SFPT-GH, 30-31th May, 2024, Rennes, France, oral. 7. Sikora N, Jay S. and **Adeline** K. Cartographie multi-échelle de l’état de vergers par acquisitions drone multimodales, 9th symposium of SFPT-GH, 30-31th May, 2024, Rennes, France, poster. Best paper award. 8. **Adeline** K., Debue M., Briottet X., Féret J.-B., De Boissieu F., Alleaume S., Giffard Carlet J., Limousin J.-M., Ourcival J.-M., Mouillot F., Kempf J., Longepierre D., Vincent G. and Gastellu-Etchegorry J.-P. Projet SentHyMED : Bases de données multi échelles et simulation de paysages de chênaies méditerranéennes par modélisation directe du transfert radiatif pour des images multi et hysperspectrales, 9th symposium of SFPT-GH, 30-31th May, 2024, Rennes, France, oral. 9. **Adeline** K., Le Saint T., Nabucet J., Hubert Moy L., Lefebvre S. and Gastellu Etchegorry J.-P. Caractérisation de l'état de santé des arbres d'alignement avec Sentinel 2 et le modèle de transfert radiatif DART, AST Occitanie milieux urbains, 23rd April 2024, Toulouse, France, oral. 10. **Adeline** K. et al. Session 1 - données in situ : « Données SENTHYMED », Session 2a - Estimation de l’état hydrique de la végétation à partir de produits de télédétection (contenu en eau et traits) : « Estimation des traits fonctionnels de forêts ouvertes par télédétection hyperspectrale: défis de la modélisation du transfert radiatif 3D » « Projet SENTHYMED », Session 2b - Estimation de l’état hydrique de la végétation à partir de produits de télédétection (stress hydrique) : « Stress hydrique et évapotranspiration de forêts ouvertes par imagerie infrarouge thermique », miniséminaire télédétection hydrique et feux, 11rst April 2024, Avignon, France, oral. 11. **Adeline** K., Miraglio T., Porterie M., Demoulin R., Lefebvre S., Briottet X., Gastellu Etchegorry J.-P., Martin P., Burchard Levine V., Schaaf C., Huesca M., Ustin S. and Baldocchi D., miniséminaire télédétection hydrique et feux, 11rst April 2024, Avignon, France, oral. 12. Briottet X., **Adeline** K., Bajjouk T., Carrère V., Chami M., Constans Y., Derimian Y., Dupiau A., Dumont M., Doz S., Fabre S., Foucher P. Y., Herbin H., Jacquemoud S., Lang M., Le Bris A., Litvinov P., Loyer S., Marion R, Minghelli A., Miraglio T., Sheeren D., Szymanski B., Romand F., Desjardins C., Rodat D. and Cheul B. End-user driven optimization of the SWIR spectral sampling for a future hyperspectral sensor using end-to-end simulations, 8th symposium of SFPT-GH, 5-6th July 2023, Paris, France, oral. 13. **Adeline** K., Porterie M., Demoulin R., Chauvet L., Schmitt J.-V., Miraglio T., Lefebvre S., Briottet X., Gastellu-Echegorry J.-P., Schaaf C., Ustin S. and Baldocchi D. Projet HyperMED : estimation des traits fonctionnels de forêts méditerranéennes à canopée ouverte par imagerie hyperspectrale en prévision des missions BIODIVERSITY et SBG, 8th symposium of SFPT-GH, 5-6th July 2023, Paris, France, oral. 14. Debue M., Vincent G., Alleaume S., de Boissieu F., Briottet X., Féret J.-B., Gastellu-Etchegorry J.-P., Limousin J.-M., Longepierre D. and **Adeline** K. Simulations d’images hyperspectrales de forêts méditerranéennes à partir du modèle de transfert radiatif DART, de données terrain et drone LiDAR : adéquation à des images aéroportées et satellitaires, 8th symposium of SFPT-GH, 5-6th July 2023, Paris, France, poster presentation given by K. Adeline on behalf of the fixed-term contract M. Debue. 15. M. Porterie, **Adeline** K. and Briottet X. Développements méthodologiques pour le suivi d’estimation d’indicateurs d’inflammabilité à l’aide d’images hyperspectrales aéroportées en contexte forestier méditerranéen, 8th symposium of SFPT-GH, 5-6th July 2023, Paris, France, poster. 16. Démoulin R., Gastellu-Etchegorry J.-P., Briottet X., **Adeline** K., Marionneau M. and Le Dantec V. Télédétection multi-/hyper-spectrale et modélisation du transfert radiatif 3D pour le suivi de cultures de maïs, 8th symposium of SFPT-GH, 5-6th July 2023, Paris, France, poster. 17. Colin E., Orlik X., **Adeline** K. and Plyer A. Imagerie de la circulation de sève d'une feuille par speckle dynamique, 18ième édition des Journées Imagerie Optique Non Conventionnelle, 30-31th March 2023, Paris, France, oral. 18. Le Saint T., **Adeline** K., Nabucet J. and Hubert-Moy L. Analyse de sensibilité du satellite Sentinel-2 pour la caractérisation de la végétation arborée en milieu urbain, TEMU, 2-3th February 2023, Montpellier, France, oral, https://www.theia-land.fr/urbain/2023-urbain, oral. 19. Fabre F., **Adeline** K., Michel A., Roupioz L., Achard V., Aval J., Thomas C. and Le Saint T. Activités sur les milieux urbains à l’ONERA-DOTA, AST Occitanie milieux urbains, 12th December 2022, Toulouse, France, oral. 20. **Adeline** K., Ollivier S., Briottet X. and Lefebvre S. Atmospheric correction in tree shadows at high spatial resolution: preliminary results, AST Occitanie milieux urbains, 12th December 2022, Toulouse, France, oral. 21. **Adeline** et al., “Tree vegetation functional traits assessment for open/dense forests in Mediterranean and mountainous climate”, “Health assessment of tree vegetation due to urban stresses”, 1st DART Users' Workshop, 10th May 2022, Toulouse, France, oral. 22. **Adeline** K., Granero-Belinchon C., Lemonsu A. and Briottet X. Suivi des dynamiques phénologiques des arbres d'alignement en ville pour détecter leur stress à l'aide d'images SENTINEL-2, TEMU, 30-31th January 2020, Rennes, France, oral. 23. Miraglio T., **Adeline** K., Huesca M., Ustin S. and Briottet X. Influence of forest modeling on LAI and chlorophyll content estimation with radiative transfer inversion for a woodland savanna. 7th symposium of SFPT-GH, 9-10th July 2019, Toulouse, France, oral. 24. Michel A., **Adeline** K., Briottet X., Poutier L., Ottlé C., Sobrino J. and Lagouarde J.P. Mapping of Urban Temperatures by TRISHNA : Precision of the Land Surface Temperature According to the Spatial Resolution. GEOBIA, 18-22th June, 2018, Montpellier, France, poster. 25. **Adeline** K., Huesca, M., Roth, K., Gastellu-Etchegorry J.P., Baldocchi D. and Ustin S. Suivi de la phénologie saisonnière suite à un épisode de sécheresse en savane boisée par télédétection aéroportée hyperspectrale. 6th symposium of SFPT-GH, 17-18th May 2018, Montpellier, France, oral. 26. Michel A., **Adeline** K., Briottet X., Ottlé C. and Poutier L. Cartographie des températures urbaines par TRISHNA: de la donnée à la précision de la température de surface. TEMU, Strasbourg, France, 19-20th March 2018, oral. 27. **Adeline** K., Briottet X, Ceamanos X., Dartigalongue T. and J.-P. Gastellu-Etchegorry. Amélioration de la correction atmosphérique en présence d'arbres urbains. TEMU, 19-20th March 2018, Strasbourg, France, oral. 28. **Adeline** K.R.M., C. Gomez, N. Gorretta and J.-M. Roger. Sensitivity of soil property prediction obtained from NIR/SWIR data to spectral configurations. HelioSPIR, 14th October 2014, Montpellier, France, poster. 29. **Adeline** K., Reconnaissance de la réflectance des matériaux dans l’ombre des arbres en milieu urbain à partir de données aéroportées hyperspectrales et LIDAR 3D. 2nd symposium of SFPT-GH, 18-19th June 2012, Toulouse, France, oral, https://www.sfpt.fr/hyperspectral/wp-content/uploads/2013/06/SFTH2012\_5.1\_Adeline.pdf. 30. Briottet, X., Weber, C., & **Adeline**, K. (2011, September). L'imagerie hyperspectrale en milieu urbain. In 12es Rencontres HelioSpir (pp. xx-xx), Sep 2011, Montpellier, France. |
|  |
| **Book chapters** |
| 1. **Adeline** K., Fabre S., Briottet X. and Weber C. 2021. Adaptation climatique par la végétalisation, chapitre Enjeu milieux urbanisés. RECO, Cahier Régional Occitanie sur les Changements Climatiques, 270 p., https://crocc.reco-occitanie.org/milieux-urbain/ 2. Grandjean G., Briottet X., **Adeline** K., Bourguignon A. and Hohmann A. 2019. Clay Minerals Mapping from Imaging Spectroscopy [Online First], in: Pepe A. and Zhao Q. (dir.), Earth Observation and Geospatial Analyses, IntechOpen, https://www.intechopen.com/online-first/clay-minerals-mapping-from-imaging-spectroscopy 3. Briottet X., Jacquemoud S., Roujean J.-L., **Adeline** K. and Fabre S. 2019. Réflectance bidirectionnelle de la végétation en télédétection, Chapitre 4, in : Simonot L. & Boulenguez P. (dir.), Quand la matière diffuse la lumière, Presses des Mines, Collection Sciences de la matière, Paris, https://www.pressesdesmines.com/produit/quand-la-matiere-diffuse-la-lumiere/ 4. V. Anquetil, K. **Adeline**, A. Bensalma, Briottet X., Gutleben C., Launeau P., Long N., Musy M., Oltra-Carrio R. and Provendier D. 2014. Présence végétale en ville: quelle connaissance ? Nouvelles méthodes d’acquisition et de traitement de la donnée, Chapitre 1, in: Musy M., coord., Une ville verte - Les rôles du végétal en ville. Edition QUAE, Collection Synthèses, Versailles, 193 p., https://www.quae.com/produit/1251/9782759221738/une-ville-verte |
|  |
| **Editorial journal contribution** |
| 1. **Adeline** K., Andreu A. and Burchard-Levine V. Guest editors of the special issue: “Remote sensing of savannas and woodlands II” for the Remote Sensing journal (ongoing) 2. Karbou F., Lopez-Lozano R. and **Adeline** K. Guest editors of the special issue: “AI and Physical Modeling in Earth Observation: Synergy or Competition?” for the Environmental Data Science journal in partnership with a workshop organized by the National Spatial Remote Sensing Program (PNTS) (ongoing) 3. **Adeline** K., Briottet X., Féret J.-B. and Lefevre-Fonollosa M.-J. (2022). Editorial for the special issue « imagerie hyperspectrale », Revue Française de Photogrammétrie et de Télédétection, 224(1), 1–4, https://doi.org/10.52638/rfpt.2022.657 |
|  |
| **Thesis** |
| 1. **Adeline** K., Classification des matériaux urbains en présence de végétation éparse par télédétection hyperspectrale à haute résolution spatiale, ISAE-SUPAERO, Toulouse, France, 2014, https://www.theses.fr/2014ESAE0056 |