

Liste des publications 2017 de l'Observatoire OSR du Tensift

- Al Housseine, D.: Efficacité de l'utilisation de l'eau par les cultures pluviales et irriguées en Méditerranée du Sud par télédétection spatiale multi-capteurs, PhD Thesis, Université Cadi Ayyad, Maroc, 2017.
- Amazirh, A., Er-Raki, S., Chehbouni, A., Rivalland, V., Diarra, A., Khabba, S., Ezzahar, J. and Merlin, O.: Modified Penman–Monteith equation for monitoring evapotranspiration of wheat crop: Relationship between the surface resistance and remotely sensed stress index, *Biosystems Engineering*, 164, 68–84, <https://doi.org/10.1016/j.biosystemseng.2017.09.015>, 2017.
- Ayyoub, A., Er-Raki, S., Khabba, S., Merlin, O., Ezzahar, J., Rodriguez, J. C., Bahlaoui, A. and Chehbouni, A.: A simple and alternative approach based on reference evapotranspiration and leaf area index for estimating tree transpiration in semi-arid regions, *Agricultural Water Management*, 188, 61–68, <https://doi.org/10.1016/j.agwat.2017.04.005>, 2017a.
- Ayyoub, A., Khabba, S., Er-Raki, S., Merlin, O. and Bahlaoui, A.: Calibration and validation of the Penman-Monteith model for estimating evapotranspiration of an orange orchard in semi-arid region, *Acta Horticulturae*, (1150), 15–22, <https://doi.org/10.17660/ActaHortic.2017.1150.3>, 2017b.
- Bahir, M., Boulet, G., Olioso, A., Rivalland, V., Gallego-Elvira, B., Mira, M., Rodriguez, J.-C., Jarlan, L. and Merlin, O.: Evaluation and Aggregation Properties of Thermal Infra-Red-Based Evapotranspiration Algorithms from 100 m to the km Scale over a Semi-Arid Irrigated Agricultural Area, *Remote Sensing*, 9(11), 1178, <https://doi.org/10.3390/rs9111178>, 2017.
- Battude, M., Al Bitar, A., Brut, A., Tallec, T., Huc, M., Cros, J., Weber, J.-J., Lhuissier, L., Simonneaux, V. and Demarez, V.: Modeling water needs and total irrigation depths of maize crop in the south west of France using high spatial and temporal resolution satellite imagery, *Agricultural Water Management*, 189, 123–136, <https://doi.org/10.1016/j.agwat.2017.04.018>, 2017.
- Boone, A., Samuelsson, P., Gollvik, S., Napoly, A., Jarlan, L., Brun, E. and Decharme, B.: The interactions between soil–biosphere–atmosphere land surface model with a multi-energy balance (ISBA-MEB) option in SURFEXv8 – Part 1: Model description, *Geoscientific Model Development*, 10(2), 843–872, <https://doi.org/10.5194/gmd-10-843-2017>, 2017.
- Dakhlaoui, H., Ruelland, D., Tramblay, Y. and Bargaoui, Z.: Evaluating the robustness of conceptual rainfall-runoff models under climate variability in northern Tunisia, *Journal of Hydrology*, 550, 201–217, <https://doi.org/10.1016/j.jhydrol.2017.04.032>, 2017.
- Diarra, A., Jarlan, L., Er-Raki, S., Le Page, M., Aouade, G., Tavernier, A., Boulet, G., Ezzahar, J., Merlin, O. and Khabba, S.: Performance of the two-source energy budget (TSEB) model for the monitoring of evapotranspiration over irrigated annual crops in North Africa, *Agricultural Water Management*, 193, 71–88, <https://doi.org/10.1016/j.agwat.2017.08.007>, 2017.
- Eweys, O. A., Escorihuela, M. J., Villar, J. M., Er-Raki, S., Amazirh, A., Olivera, L., Jarlan, L., Khabba, S. and Merlin, O.: Disaggregation of SMOS Soil Moisture to 100 m Resolution Using MODIS

Optical/Thermal and Sentinel-1 Radar Data: Evaluation over a Bare Soil Site in Morocco, *Remote Sensing*, 9(11), 1155, <https://doi.org/10.3390/rs9111155>, 2017.

Fayad, A., Gascoin, S., Faour, G., López-Moreno, J. I., Drapeau, L., Page, M. L. and Escadafal, R.: Snow hydrology in Mediterranean mountain regions: A review, *Journal of Hydrology*, 551, 374–396, <https://doi.org/10.1016/j.jhydrol.2017.05.063>, 2017.

Filahi, S., Tramblay, Y., Mouhir, L. and Diaconescu, E. P.: Projected changes in temperature and precipitation indices in Morocco from high-resolution regional climate models: CLIMATE CHANGE, *International Journal of Climatology*, 37(14), 4846–4863, <https://doi.org/10.1002/joc.5127>, 2017.

Fnguire, F., Laftouhi, N.-E., Saidi, M. E., Zamrane, Z., El Himer, H. and Khalil, N.: Spatial and temporal analysis of the drought vulnerability and risks over eight decades in a semi-arid region (Tensift basin: Morocco), *Theoretical and Applied Climatology*, 130(1–2), 321–330, <https://doi.org/10.1007/s00704-016-1873-z>, 2017.

Gorrab, A., Simonneaux, V., Zribi, M., Saadi, S., Baghdadi, N., Lili Chabaane, Z. and Fanise, P.: Bare soil hydrological balance model “MHYSAN”: Calibration and validation using SAR moisture products and continuous thetaprobe network measurements over bare agricultural soils (Tunisia), *Journal of Arid Environments*, 139, 11–25, <https://doi.org/10.1016/j.jaridenv.2016.12.005>, 2017.

Hertig, E. and Tramblay, Y.: Regional downscaling of Mediterranean droughts under past and future climatic conditions, *Global and Planetary Change*, 151, 36–48, <https://doi.org/10.1016/j.gloplacha.2016.10.015>, 2017.

Himi, M., Tapias, J., Benabdelouahab, S., Salhi, A., Rivero, L., Elgettafi, M., El Mandour, A., Stitou, J. and Casas, A.: Geophysical characterization of saltwater intrusion in a coastal aquifer: The case of Martil-Alila plain (North Morocco), *Journal of African Earth Sciences*, 126, 136–147, <https://doi.org/10.1016/j.jafrearsci.2016.11.011>, 2017.

López-Moreno, J. I., Gascoin, S., Herrero, J., Sproles, E. A., Pons, M., Alonso-González, E., Hanich, L., Boudhar, A., Musselman, K. N., Molotch, N. P., Sickman, J. and Pomeroy, J.: Different sensitivities of snowpacks to warming in Mediterranean climate mountain areas, *Environmental Research Letters*, 12(7), 074006, <https://doi.org/10.1088/1748-9326/aa70cb>, 2017.

Malbêteau, Y., Merlin, O., Gascoin, S., Gastellu, J. P., Mattar, C., Olivera-Guerra, L., Khabba, S. and Jarlan, L.: Normalizing land surface temperature data for elevation and illumination effects in mountainous areas: A case study using ASTER data over a steep-sided valley in Morocco, *Remote Sensing of Environment*, 189, 25–39, <https://doi.org/10.1016/j.rse.2016.11.010>, 2017.

Marchane, A., Tramblay, Y., Hanich, L., Ruelland, D. and Jarlan, L.: Climate change impacts on surface water resources in the Rheraya catchment (High Atlas, Morocco), *Hydrological Sciences Journal*, 62(6), 979–995, <https://doi.org/10.1080/02626667.2017.1283042>, 2017.

Napoly, A., Boone, A., Samuelsson, P., Gollvik, S., Martin, E., Seferian, R., Carrer, D., Decharme, B. and Jarlan, L.: The interactions between soil–biosphere–atmosphere (ISBA) land surface model multi-energy balance (MEB) option in SURFEXv8 – Part 2: Introduction of a litter formulation and model

evaluation for local-scale forest sites, *Geoscientific Model Development*, 10(4), 1621–1644, <https://doi.org/10.5194/gmd-10-1621-2017>, 2017.

Nassah, H., Er-Raki, S., Khabba, S., Fakir, Y., Ezzahar, J., Hanich, L. and Merlin, O.: Evaluation of deep percolation in irrigated citrus orchards in the semi-arid region of Tensift Al Haouz, Morocco, *Acta Horticulturae*, (1150), 145–152, <https://doi.org/10.17660/ActaHortic.2017.1150.21>, 2017.

Olivera-Guerra, L., Mattar, C., Merlin, O., Durán-Alarcón, C., Santamaría-Artigas, A. and Fuster, R.: An operational method for the disaggregation of land surface temperature to estimate actual evapotranspiration in the arid region of Chile, *ISPRS Journal of Photogrammetry and Remote Sensing*, 128, 170–181, <https://doi.org/10.1016/j.isprsjprs.2017.03.014>, 2017.

Ouatiki, H., Boudhar, A., Tramblay, Y., Jarlan, L., Benabdelouhab, T., Hanich, L., El Meslouhi, M. and Chehbouni, A.: Evaluation of TRMM 3B42 V7 Rainfall Product over the Oum Er Rbia Watershed in Morocco, *Climate*, 5(1), 1, <https://doi.org/10.3390/cli5010001>, 2017.

Sefiani, S., El Mandour, A., Laftouhi, N.-E., Khalil, N., Kamal, S., Jarlan, L., Chehbouni, A., Hanich, L., Khabba, S. and Hamaoui, A.: Assessment of Soil Quality for a Semi-Arid Irrigated Under Citrus Orchard : Case of the Haouz Plain, Morocco, *European Scientific Journal*, ESJ, 13(6), 367, <https://doi.org/10.19044/esj.2017.v13n6p367>, 2017.

Zkhiri, W., Tramblay, Y., Hanich, L. and Berjamy, B.: Regional flood frequency analysis in the High Atlas mountainous catchments of Morocco, *Natural Hazards*, 86(2), 953–967, <https://doi.org/10.1007/s11069-016-2723-0>, 2017.