

## CV

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**Date and place of birth :** 31/12/1962 Casa Blanca (Morocco)

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*Professor at the Chouaib Doukkali University ([www.ucd.ac.ma](http://www.ucd.ac.ma)) since 1990.*

### Academic Curriculum

- 1998, Doctorate Es Sciences, University of El Jadida (Morocco)
- 1990, PHD Thesis University of Pau (France),
- 1987 DEA « Geosciences & Applications » University of Pau (France)
- 1986 Bachelor of Sciences (Geology) University of Rabat (Morocco)
- 2004-2011: A series of training courses on remote sensing and applications, at the Royal Center for Remote Sensing (Morocco), ESRIN (Italy) and ITC (Neederland)

### Professional record

- Secretary General of AARSE (African Association of Remote Sensing of the Environment)
- Member of the Executive Board of the AfriGEOSS Africa Global Land Cover Working Group for Africa
- Lead coordinator of AfriGEOSS\_ Water Resource Management task, GEO Work Programme 2017-2019 Application.
- Councilor for the African region of the International Society of Digital Earth (ISDE).
- President of MARSE (Moroccan Association of Remote Sensing of the Environment).
- Member of GRSG-Geological Society (Geological Remote Sensing Group), UK.
- National Correspondent of "The GEOSS African Water Cycle Coordination Initiative (AfWCCI)"
- External Assessor of the Federal University of Technology, Akure, Nigeria
- External Assessor of RECTAS, Nigeria
- Expert-evaluator of Centre National de la Recherche Scientifique et Technique (CNRST), Morocco
- Expert-evaluator of Institut de Recherche pour le Développement (IRD), France

### Research projects

- Projet PARS (projet d'Appui à la recherche scientifique) (1998-2001) : Réalisation de notices géologiques pour l'Atlas de Béni Mellal et la Région de Doukkala. *Funding : Moroccan Government.*
- Projet APPUI – 2005-2006 : cartographie des espaces naturels de la région des Doukkala-Abda (Maroc) : Apport de la Télédétection Spatiale. Valorisation des ressources naturelles et environnement. *Funding : Moroccan Government.*

- TIGER project ([www.tiger.esa.int](http://www.tiger.esa.int)) (2005-2017) (projet Water for life in Africa) : Analyse, qualification et suivi des phénomènes géologiques et hydrogéologiques dans la zone des Doukkala-Abda et son littoral Atlantique : Apport de la télédétection spatiale. Funding : European Space Agency (ESA), CEOS, UNESCO, NEPAD.
- IFS Project (2007 & 2010) : Apport de la télédétection spatiale dans la gestion des ressources en eau des zones semi-aride de Abda-Doukkala (Maroc occidental). Funding : International Foundation for Sciences (Sweden).
- Projet Action Intégrée, Programme Volubilis (2007-2010) : MA/07/174 : « Caractérisation spectral visible infrarouge des faciès carbonatés et potentiels des données de télédétection spatiale en cartographie géologique : application aux bassins des Abda-Doukkala et du haut atlas occidental ». Funding : Coopération Franco-Marocaine.
- Projet ESA/ALCANTRA A13 (2013-2015) : Definition of EO indicators for irrigation performance monitoring in Doukkla. Partenaire : Delft University of Technology - The Netherlands. Funding : European Space Agency (ESA).
- MOSES project ([www.moses-project.eu](http://www.moses-project.eu))- Managing crOp water Saving with Enterprise Services (Grant Agreement 642258 Funded under: H2020-EU.3.5.4.). Funding : EU
- Sentinel 2 for Agriculture Project (Sen2-Agri, [www.esa-sen2agri.org](http://www.esa-sen2agri.org)) contribution to the R&D component of the GEOGLAM initiative and to the JECAM network activities. . Funding : European Space Agency (ESA).

### Journal articles (in the last 5 years)

- Habib, A., Akdim, N., El Ghandour, F., Labbassi, K., Khoshelham, K., Menenti, M., (Submitted). *Impact of Spatial Resolution, Interpolation and Filtering algorithms on DEM Accuracy for Geomorphometric Research: A Case Study from Sahel-Doukkala, Morocco*. Earth Surface Processes and Landforms
- Habib, A., Delgado Blasco, J.M., Labbassi, A. Van Leijen, F. Lannini, L. and Menenti, M. (2017)- Land Deformation Monitoring Using PS-InSAR Technique Over Sahel-Doukkala (Morocco), ASIP 2017, IEEEExplore.
- Habib, A., Akdim, N., El Ghandour, F., Labbassi, K., Khoshelham, K., Menenti, M., 2017. *Extraction and Accuracy Assessment of High Resolution DEM and Derived Orthoimages from ALOS-PRISM Data over Sahel- Doukkala (Morocco)*. Earth Science Informatics. DOI: 10.1007/s12145-017-0287-5
- Nadia Akdim , Silvia Maria Alfieri , Adnane Habib , Abdeloihab Choukri , Elijah Cheruiyot , Kamal Labbassi and Massimo Menenti (2014)- Monitoring of Irrigation Schemes by Remote Sensing: Phenology versus Retrieval of Biophysical Variables. *Remote Sens.* 2014, 6, 5815-5851; doi:10.3390/rs6065815
- Dowman, I. and Labbassi, K (2014)- The Development of Geospatial Education and Training in North Africa. *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XL-6, 1-5. DOI:10.5194/isprsarchives-XL-6-1-2014.
- Habib A, Labbassi K., Akdim N., Tajdi A. (2013)- Contribution des données ALOS et LANDSAT dans la cartographie et l'analyse des linéaments dans le sahel central (maroc occidental). *Bulletin SFPT n°203-204*, pp. 9-21
- Labbassi, K. Akdim, N. Menenti, M., (2012) - EO Data to Support the Optimal Management of Irrigation water in western Morocco: potential of sentinel-2 type observation, *Sentinel-2 Publication ESA, II-12. (2012), 24-33*
- Baissa R., Labbassi K., Launeau P., Ouajhain B., Gaudin A. (2012)- Using HySpex SWIR-320m hyperspectral data for the identification and mapping of minerals in hand specimens of carbonate rocks from the Ankloute formation (Agadir Basin, Western Morocco). *J. of African Earth Sciences*, 62 (2011) 1-9
- Baissa R., Labbassi K., Launeau Patrick, Brahim Ouajhain, Gaudin Anne (2011)-Analyse hyperspectrale des carbonates jurassiques dans le Haut Atlas atlantique marocain : exemple du Lias inférieur de la formation d'Arigh Ouzla (bassin d'Essaouira). *C. R. Geoscience* 342 (2010) 911-920.

- Labbassi k., Tajdi A., Akdim N., Sandoz A. (2011)- Cartographie des linéaments et lithologique dans le secteur de sebt brikyne (jonction Doukkala-Rehamna, Maroc) par l'utilisation de l'imagerie satellitaire optique et radar. *Bulletin SFPT n°195*, pp. 9-21.
- Labbassi K., Sbih L. & Sandoz A. (2010)- Utilisation de l'imagerie satellitaires optique et radar pour la cartographie géologique dans les bordures orientale de Doukkala, Maroc : Contribution à la compréhension hydrogéologique. *IHP-VII, Technical documents in hydrology, N° 85, UNESCO, Paris, 2010.*
- Labbassi k., Tajdi A. & Er-Raji A. (2010)- Remote sensing and geological mapping for a groundwater recharge model in the arid area of Sebt Brykine: Doukkala, western morocco. *978-1-4244-3395, IEEE*, pp. 112-116.
- Labbassi, K.; Médina, F.; Rimi, A.; Mustaphie, H. & Bouatmani, R. (2007) - Subsidence history of Essaouira basin (Morocco). *Péri-Tethys Mem 5, New data on Peri-Tethys sedimentary basin S. Crasquin-Soloeau & E. Barrier (eds), Mém. Mus Nat. d'Histoire Naturelles, Paris, 2000, vol. 182.*

### Scientific papers (in the past 5 years)

- El Ghandour, F. E., Habib, A., Akdim, N., Alfieri, S. A., Labbassi, K., Menenti, M. & El Arabi, A., (2017)- Using Earth Observation data for evapotranspiration mapping and monitoring in the Oum Er-rbia basin (central Morocco). *The First International ASRO Geological Congress 2017. El Jadida, Morocco.*
- Habib, A., Akdim, N., El Ghandour, F. E., Labbassi, K., Khoshelham, K. & Menenti, M., (2017)- Influence of spatial resolution and interpolation methods on DEM quality. *The First International ASRO Geological Congress 2017. El Jadida, Morocco.*
- Alfieri, S., Akdim, N., Labbassi, K., El Ghandour, F., Habib, A., Menenti, M., (2016)- The Take 5 experiment in Morocco: supporting irrigation water management by means of high spatial and temporal resolution multispectral data. *ESA Living Planet Symposium 2016. Prague-Czech.*
- Akdim, N., Alfieri, S., Habib, A., El Ghandour, F., Labbassi, K., Menenti, M., (2016)- Crop Water Requirement: Estimation Using Spot5 (Take 5) Time Series Data. *ESA Living Planet Symposium 2016. Prague-Czech.*
- Akdim, N., Alfieri, S., Habib, A., Labbassi, K., Menenti, M., (2015)- Les données d'observation de la terre pour l'évaluation de la performance de l'irrigation dans un contexte de climat semi-aride: cas du périmètre irriguée des Doukkala - Maroc, in: *Colloque International : Application Des Technologies Géospatiales En Géosciences. Taza, Maroc. pp. 126–127.*
- El Ghandour, F., Labbassi, K., Akdim, N., Habib, A. (2015)- Utilisation des données de l'observation de la terre multi-sources pour la cartographie et le suivi de l'évapotranspiration dans le bassin hydraulique d'Oum ErRbia, in: *Colloque International : Application Des Technologies Géospatiales En Géosciences. Taza, Maroc. pp. 204.*
- Labbassl, K., Akdim N., Alfieri, S., Menenti, M. (2014)- Multisource EO Data for the optimal agricultural drainage water management in semi-arid area of Doukkala (Western MOROCCO): Potential of Sentinel-2 Type Observation, *Sentinel 2 for science workshop, Frascati , 20-22 May 2014.*
- Habib, A., Akdim, N., Labbassi, K., (2014) Lineament mapping and analysis for groundwater exploration using multispectral remotely sensed data in the center Sahel (Western Morocco), in: *The Second International Congress on Remote Sensing and GIS (ICRGC). Casablanca, Morocco.*
- Akdim N., Alfieri, S., Labbassi, K., Menenti, M. (2014)- Constructing Time Series of Crop Evapotranspiration by combining multiple Imaging Spectral Radiometers: a preview of the use of Sentinel2 data, *Sentinel 2 for science workshop, Frascati , 20-22 May 2014.*
- Labbassi, K., Akdim N., Alfieri, S., Menenti, M. (2014)- Observation and Modelling of Soil Water Content Towards Improved Performance Indicators of Large Irrigation Schemes, *EGU international conference, Vienna, Vienna, 27 April-2May 2014*
- Menenti, M., Akdim, N., Alfieri, S., Labbassi, K., De Lorenzi F., Bonfante A., Basile A. (2014) Evaluation of the spatial variability of soil water content at the spatial resolution of SMAP data products : case studies in Italy and Morocco, *EGU international conference, Vienna, 27 April-2May 2014.*

- Labbassi, K, Akdim, N., Alfieri, S.,, Menenti, M (2014) Monitoring of Irrigation schemes by Remote Sensing : phenology Vs retrieval of Biophysical variables, *3rd International Conference on the Use of Space Technology for water management jointly by the United Nations, Rabat-Morocco, 1-4 April 2014*.
- Akdim, N. Alfieri, S., Habib, A, Labbassi, K., Menenti, M. (2013)- EO data for the exploration and support the optimal management of water in the Doukkala region (western Morocco). *Tiger workshop, Tunis, 2013*.
- Akdim, N., Alfieri, S., Habib, A., Choukri, A., Menenti, M., Labbassi, K., (2013) - Definition of EO indicators for irrigation performance monitoring (Morocco)-(Ref: 12-A13). *ALCANTARA Symposium, Faculty of GeoInformation sciences and earth observation (ITC), Twente, Netherlands, 23-24 June 2013*.
- Akdim, N. Alfieri, S., Habib, A, Labbassi, K., Menenti, M. (2013)- EO data for the exploration and support the optimal management of water in the Doukkala region (western Morocco). *Tiger workshop, Tunis, 2013*.
- Akdim, N., Labbassi, K., Menenti, M. (2013) - Definition of EO indicators for irrigation performance monitoring: Case of Semi-arid Region of Doukkala – Morocco. *ALCANTARA meeting, Frascati, Italy, 3-4 October 2012*.
- Alfieri, S., Akdim, N., Menenti, M., Labbassi, K. (2013)- Assessing the effectiveness of irrigation using the SWAP model and remote sensing. *ALCANTARA Symposium, Faculty of Geo-Information sciences and earth observation (ITC), Twente, Netherlands, 23-24 June 2013*.
- Akdim, N., Alfieri, S., Labbassi, K., Menenti, M. (2013) - Irrigation Performance using Hydrological Modeling and Remote Sensing: Case of Semi-arid Region of Doukkala, Morocco. *Living Planet Symposium, Edinburgh, UK, 9-13 September*
- Labbassi K. (2013)- Remote sensing, GIS and geohazards: assessment and monitoring in the coastal zone of abda-doukkala (western morocco), *CODISTIII, UNECA, Adis Abeba, 12-15 March 2013*
- Baissa R., Labbassi K., Launeau P. & Ouajhain B. (2012)- Hsing hypspx swir-320m hyperspectral data for the identification and mapping of minerals and carbonate rocks of Jurassic age in the Essaouira-Agadir basin (western morocco)- *9th AARSE International Conference. 29 Oct-2 Nov. 2012. El Jadida Morocco*
- Akdim N., Labbassi K., Habib A., Menenti M., Gana L. & Er-raki S.- (2012) EO data to support the optimal management of irrigation water in western morocco: case of semi-arid region of doukkala. *9th AARSE International Conference. 29 Oct-2 Nov. 2012. El Jadida Morocco*.
- Habib A., Akdim N. & Labbassi K. (2012) - Use of ALOS and LANDSAT data for mapping and analysis of lineament in the central sahel (westren morocco). *9th AARSE International Conference. 29 Oct-2 Nov. 2012. El Jadida Morocco*.

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