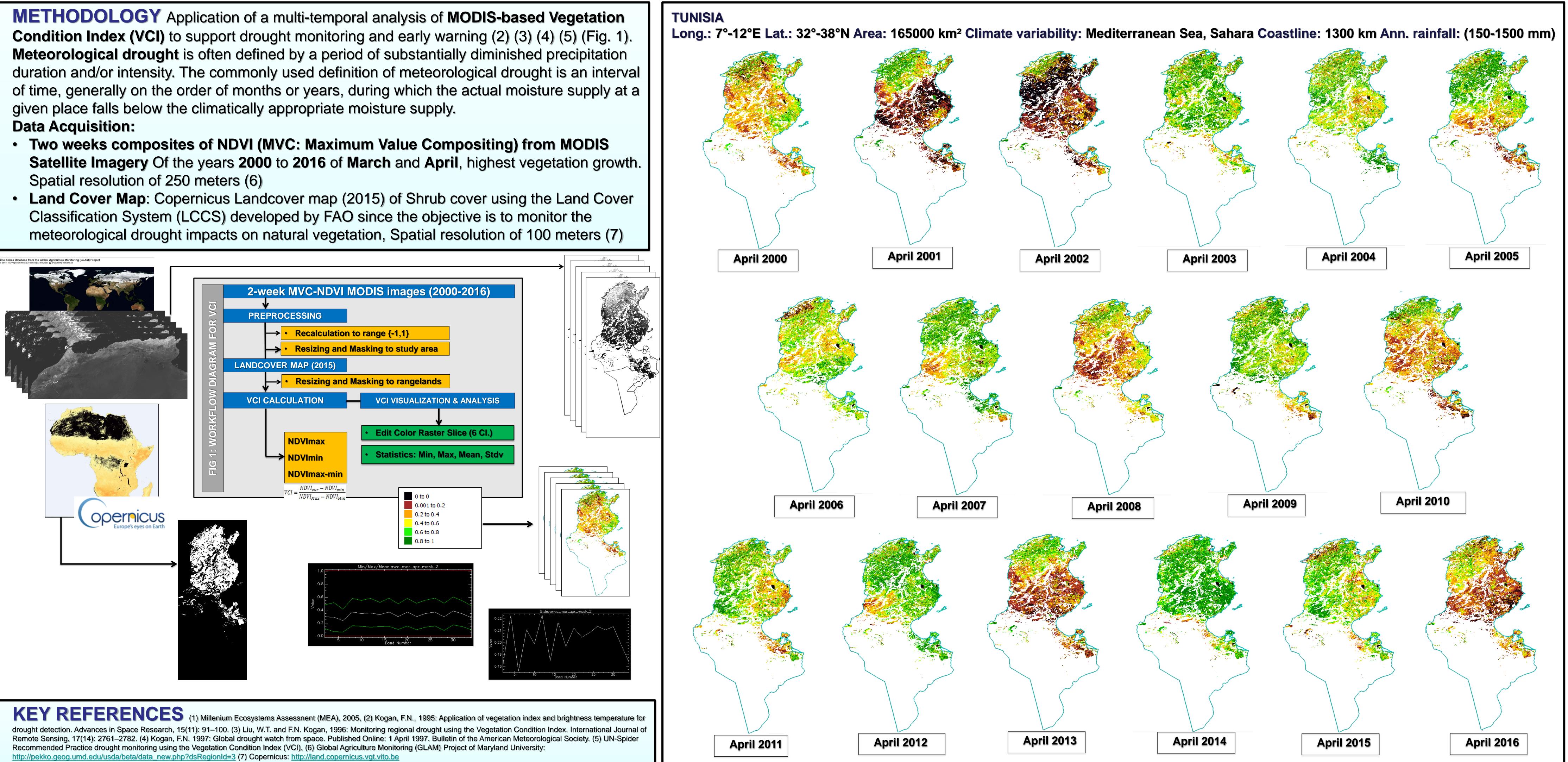


USE OF MODIS-BASED VEGETATION CONDITION INDEX (VCI) FOR DROUGHT MONITORING IN TUNISIAN DRYLANDS

INTRODUCTION Desertification - a persistent loss in ecosystem services - is driving the loss in land productivity. Existing water shortages in drylands are projected to increase over time due to population increase, land cover change, and global climate change (MEA, 2005) (1). In Tunisia in a context of climate change. Establishing the relationships between landclimate dynamics, drought and land surface modelling issues is urgent to effectively contribute to the ongoing national programs addressing Desertification, Land Degradation, and Drought (DLDD). Satellite-sensor data are continuously available and can be used to detect the onset of a drought, its duration and geospatial technologies. Drought monitoring and evaluating its characteristics is vital for a better sustainable development of water resources.

- Spatial resolution of 250 meters (6)



UN/Pakistan/PSIPW 4th International Conference on the Use of Space Technology for Water Management Islamabad, Pakistan, 26 February - 2 March 2018

B. ESSIFI (1), M. OUESSAR (2), and S. USTIN (3)

(1) Laboratory of Eremology and Combating Desertification | Institut des Régions Arides (IRA) El Fje 4119 Medenine - TUNISIA | Tel: (+216) 75633005 | Fax: (+216) 75633006 | E-mail: essifib@gmail.com | bouajila.essifi@ira.agrinet.tn (1) & (2) Center for Spatial Technologies and Remote Sensing (CSTARS) | University of California Davis | (530) 752-0621 (LAWR) or (530) 754-9617 (JMIE)

