




















SUNDAY 13		MONDAY 14		TUESDAY 15		WEDNESDAY 16		THURSDAY 17	
9:00	Welcome  <ul style="list-style-type: none"> Official inauguration by Dr Z. HARRAT MediLabSecure: Network for a One Health approach to emerging vector-borne viruses in the Mediterranean & Sahel regions / V. Legal & M. Picard 	8:30	Practical / R. Garni  <ul style="list-style-type: none"> Opening a raster file Entities selection (simple selection, query selection) Table joins 	8:30	Lecture / G. Hendrix  <ul style="list-style-type: none"> Early warning tools 	8:30	Lecture / A. Samy  <ul style="list-style-type: none"> Environmental data: climatic and remote sensing data Data visualization and processing in ArcMap Introduction to complex model algorithms (e.g. Maxent) 	8:30	Practical /A. Samy  (2) Developing models for vector species distributions
10:30	Coffee break	10:30	Coffee break	10:30	Coffee break	10:30	Coffee break	10:30	Coffee break
11:00	Lecture  <ul style="list-style-type: none"> Invasive mosquito species in Euro-Mediterranean area / V. Robert Introduction to Geographical Information System / R. Garni 	11:00	Practical / R. Garni  <ul style="list-style-type: none"> Attribute data classifying Adding geo referenced points from tabulated files 	11:00	Practical / G. Hendrix  <ul style="list-style-type: none"> Establishing a group within MediLabSecure (aim, activities, GIS capacities and follow-up) 	11:00	Practical /A. Samy  <ul style="list-style-type: none"> Model outputs Niches to distribution Model thresholding 	11:00	General discussion  Evaluation of the training Certificate of attendance Closing ceremony
13:00	Lunch	13:00	Lunch	13:00	Lunch	13:00	Lunch	13:00	Lunch
14:00	Practical / R. Garni  <ul style="list-style-type: none"> GIS : basic notions Data type in GIS : vector vs raster Geographical coordinates Cartographic projections Collecting data :How to use a GPS receiver or equivalent 	14:00	Practical / R. Garni  <ul style="list-style-type: none"> Spatial operations: Clipping a vector Spatial operations: vector fusion <ul style="list-style-type: none"> Spatial operations: creating buffer 	14:00	Lecture / A. Samy  <ul style="list-style-type: none"> Conceptual Introduction to Ecological Niche Modeling (ENMs) ENM overview Vector occurrence data concepts 	14:00	Lecture / A. Samy  <ul style="list-style-type: none"> Invasive vector species Vector distribution under Climate changes 	14:00	
16:00	Coffee break	16:00	Coffee break	16:00	Coffee break	16:00	Coffee break	16:00	Visit to Algiers
16:20	Practical / R. Garni  <ul style="list-style-type: none"> Installing QGIS, opening and handling GIS Data files : <ul style="list-style-type: none"> Opening a shapefile Attribute table Column header 	16:20	Practical / R. Garni  <ul style="list-style-type: none"> Image Geo referencing Create thematic map using the print composer 	16:20	Practical /A. Samy  <ul style="list-style-type: none"> Vector occurrence data sources and considerations Bias in Vector occurrence data Sampling Bias of Vector data 	16:20	Practical /A. Samy  (1) Each applicant will have the opportunity to develop models for vector species distributions, examine possible invasion of diverse vector species, and understand the influence of climate change on the distributional geography of several key vectors and vector-borne diseases.		
							Gala dinner		