ALTOS

Managing water resources within Mediterranean agrosystems by accounting for spatial structures and connectivities.

WP3: Simulating fluxes and storages for different scenarios of structure modulations

Task 4.2:: impact assessment and scenario ranking

<u>(leader: INRGREF).</u>

CERTE contribution



Down Stream

Impact of upstream land use and climate forcing on the downstream aquifer recharge within Cap Bon



Goals:

- Geologic characterization of Dam and aquifer recharge
- 3-D aquifer characterization
- Quantification of Dam infiltration for aquifer

Scenario of land use SWAT

 Modeling aquifer recharge according to the land use scenarios of Lebna watershed up stream using SWAT and MODFLOW

Team: Master

Period: 2021-2022

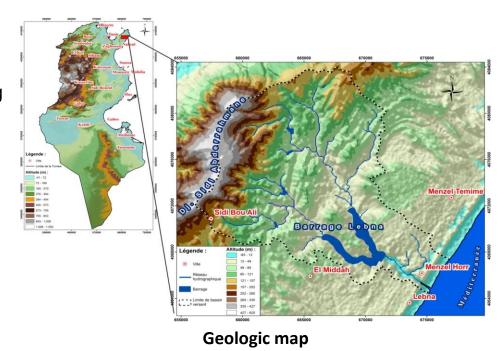
Methodology

Up Stream

Scenario of dam-aquifer recharge MODFLOW Geophysics, Dam budget, Isotopic groundwater monitoring

Up Stream /

Down Stream



Partnership ???: INRGREF, LISAH and CERTE

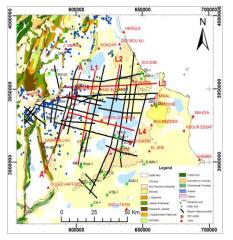
Project: LMI-NAILA (Axe 2 and transversal action)
Aquifer recharge, LGR, CERTE



SWAT and WEAP simulations for land use / irrigation / bench modulation scenarios within Merguellil

CERTE contribution:

- Geologic and 3D aquifer characterization
- integrated and sustainable water resources management (WEAP);
- Modeling land use scenarios / aquifer recharge using SWAT and WEAP



S. Sidi El Hani

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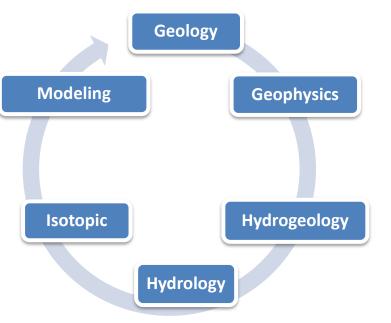
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Solvoo

Geophysics data and geologic map

Piezometric map

Methodology



Team: Master

Period: 2021-2022

Partnership: INAT, CESBIO and CERTE

Project: Aquifer recharge, LGR, CERTE