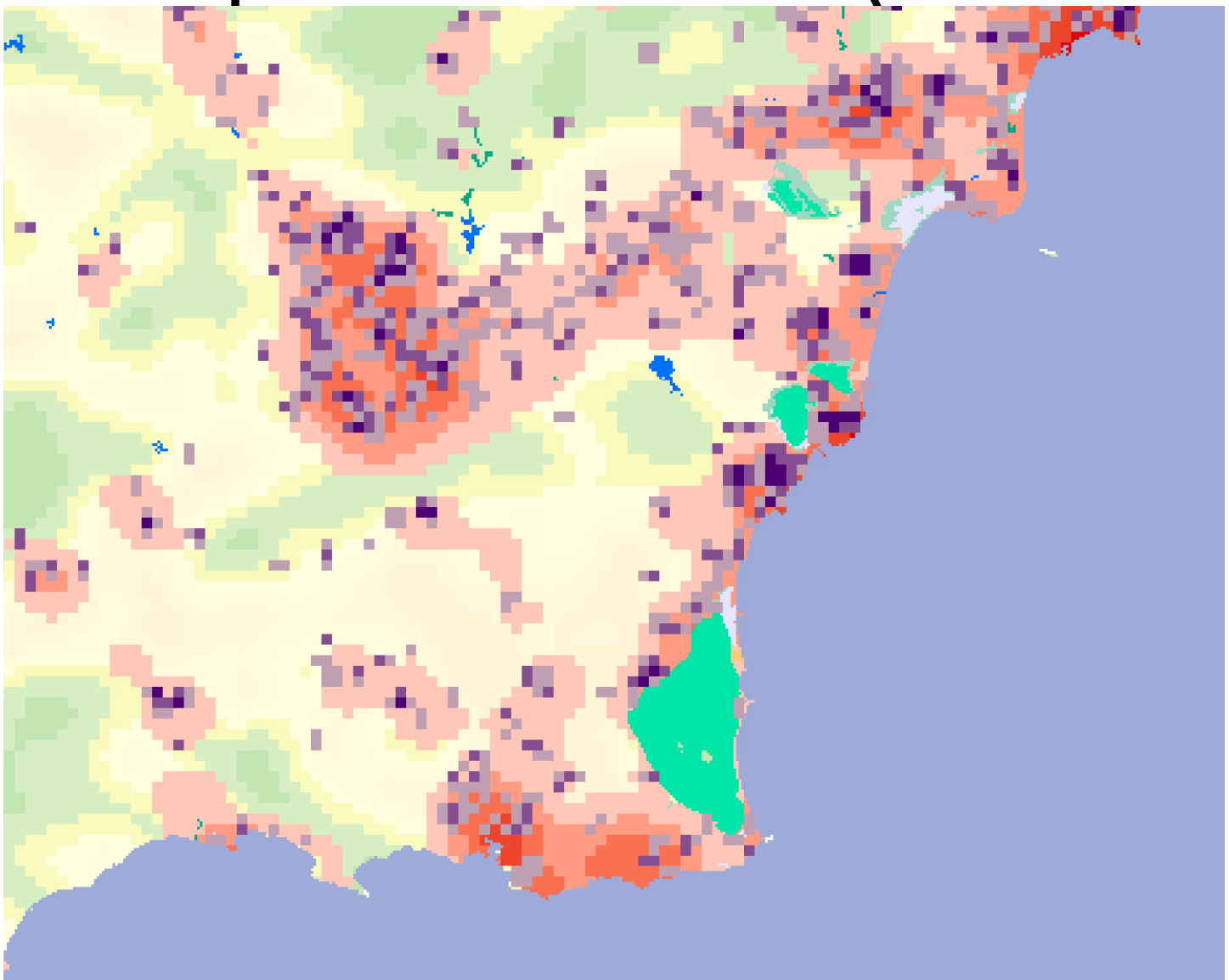
Land Cover / Land Use & Digital Elevation Maps

These are required for almost all coastal products involving the terrestrial side.

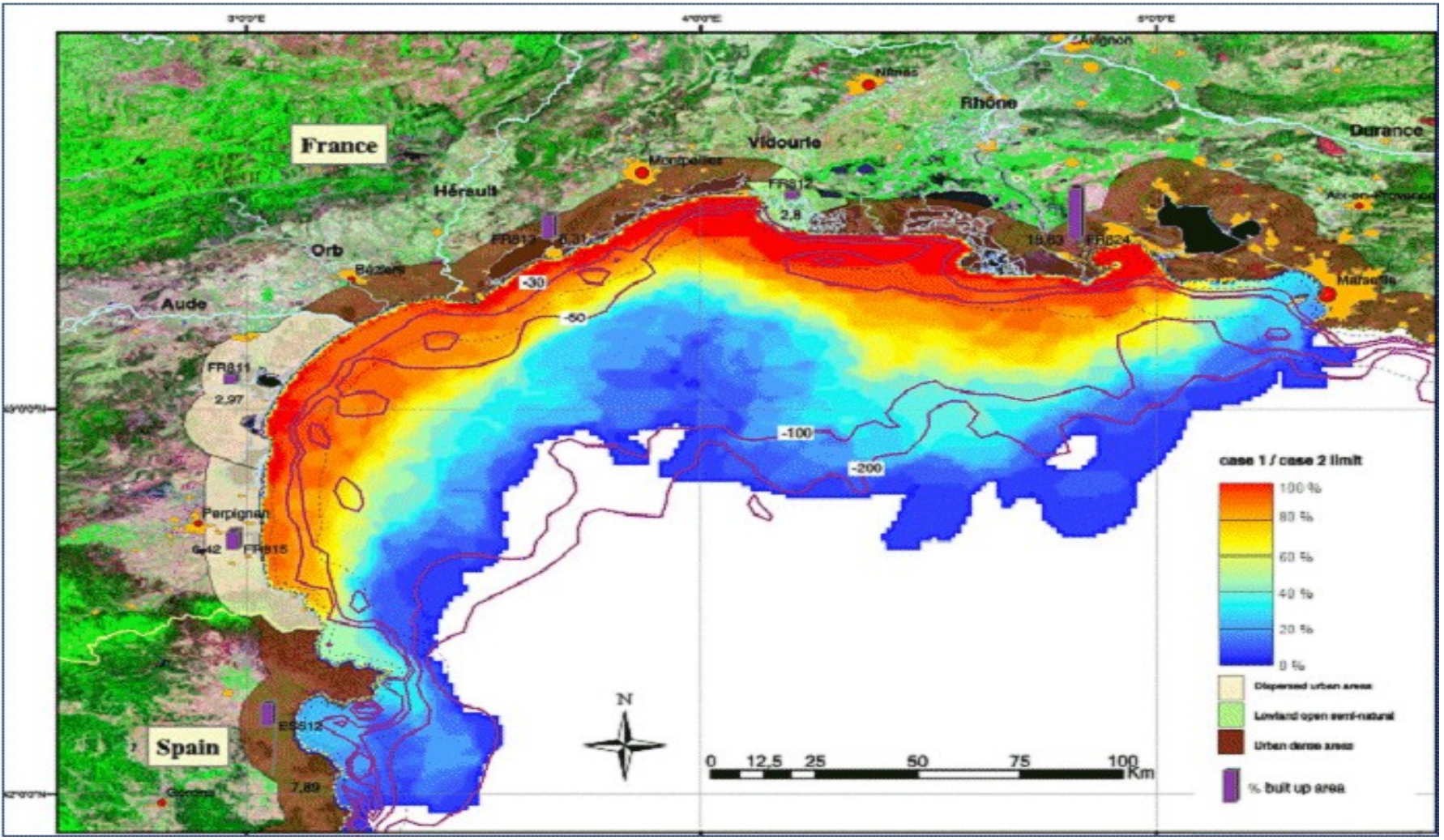
Example Issues to be Addressed

- Risk and vulnerability assessment
- Urbanization impacts
- Natural resource (esp. wetland) protection and adaptation

Coastal vulnerability and urban development 90-2000 (from CLC)



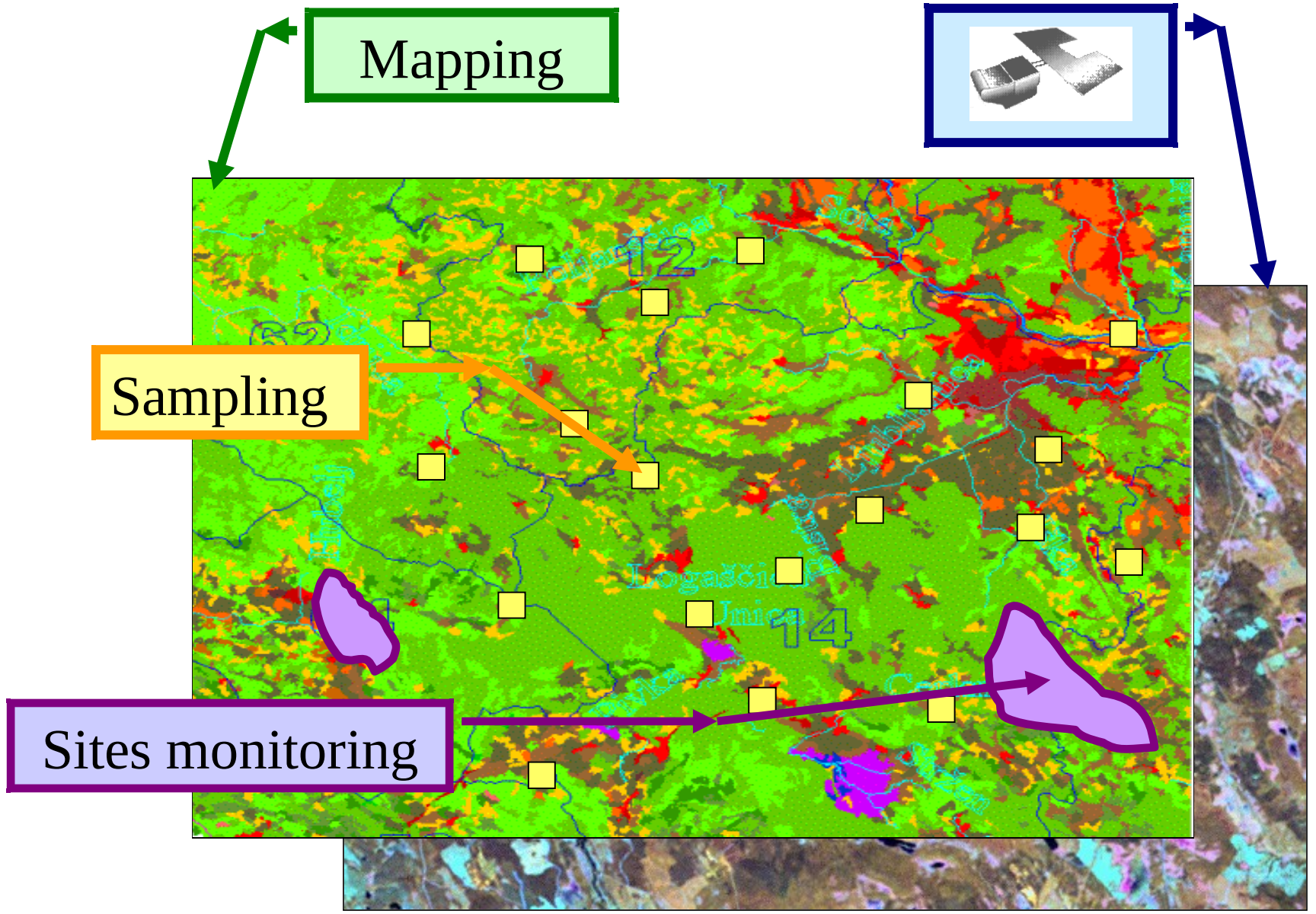
Data need for the coastal interface



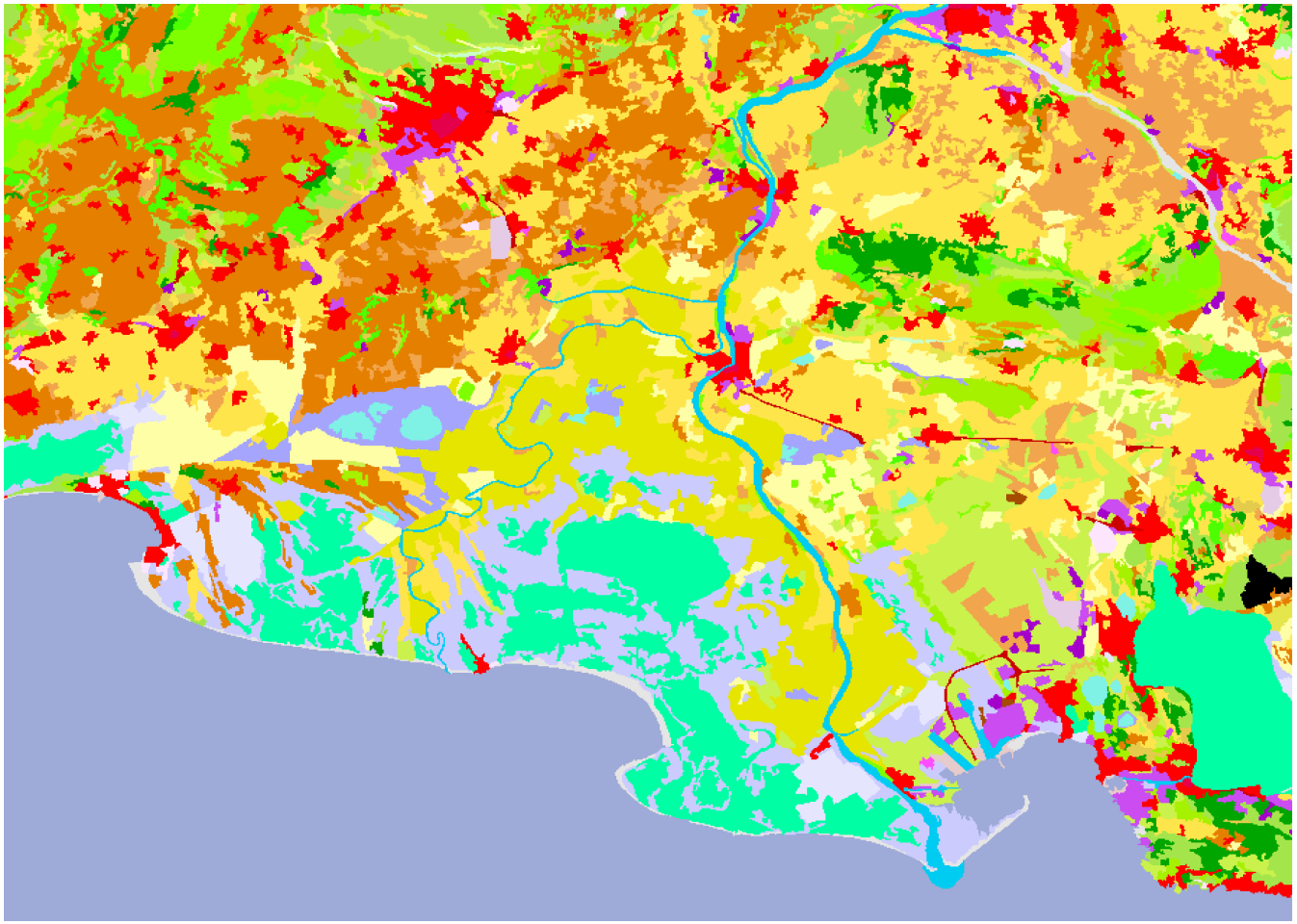
Resources

- Numerous, but compatibility of imagery, classifications and analyses are challenge
- Generally, regional information has a lag of years

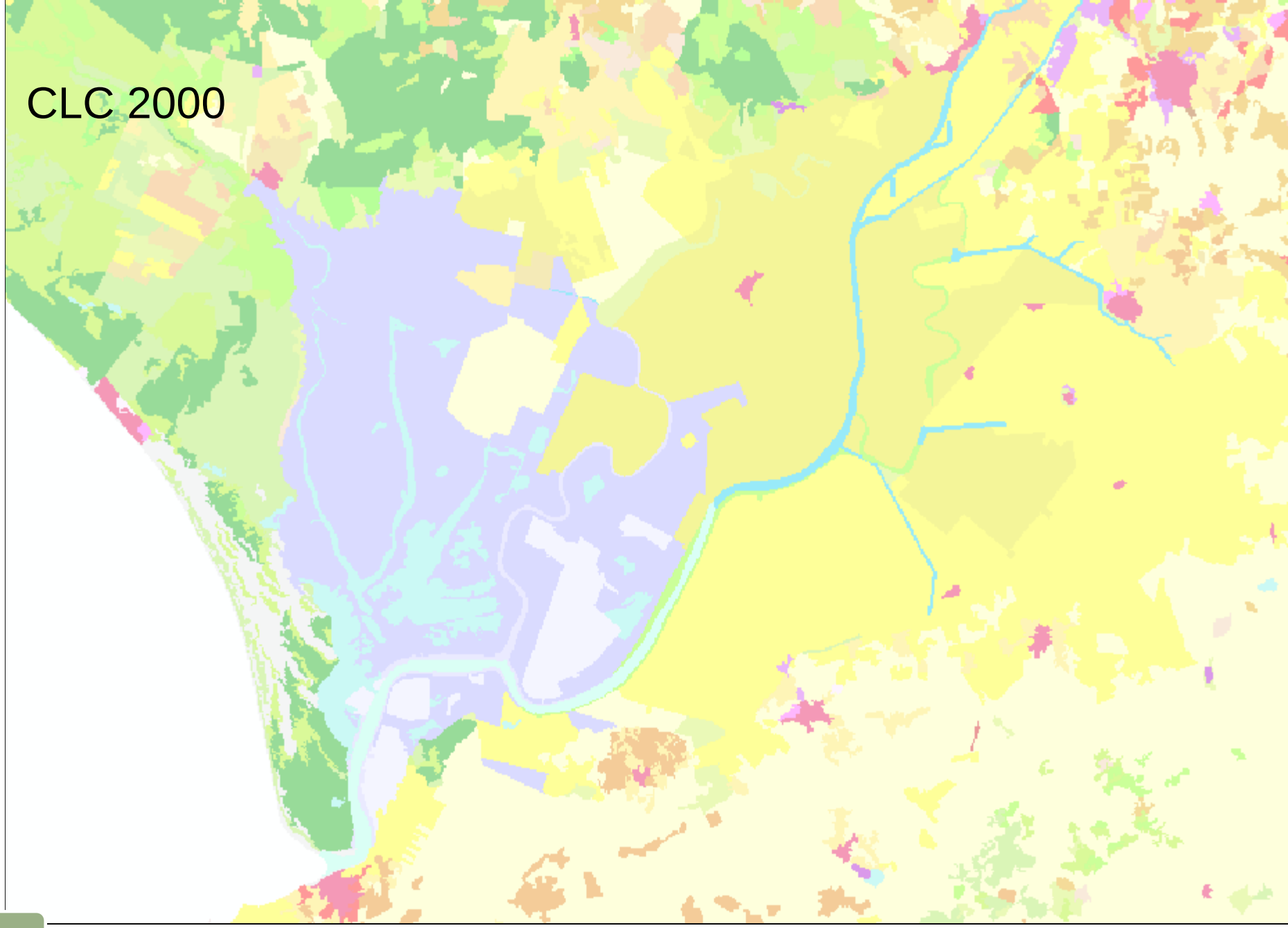
Making the best use of existing data



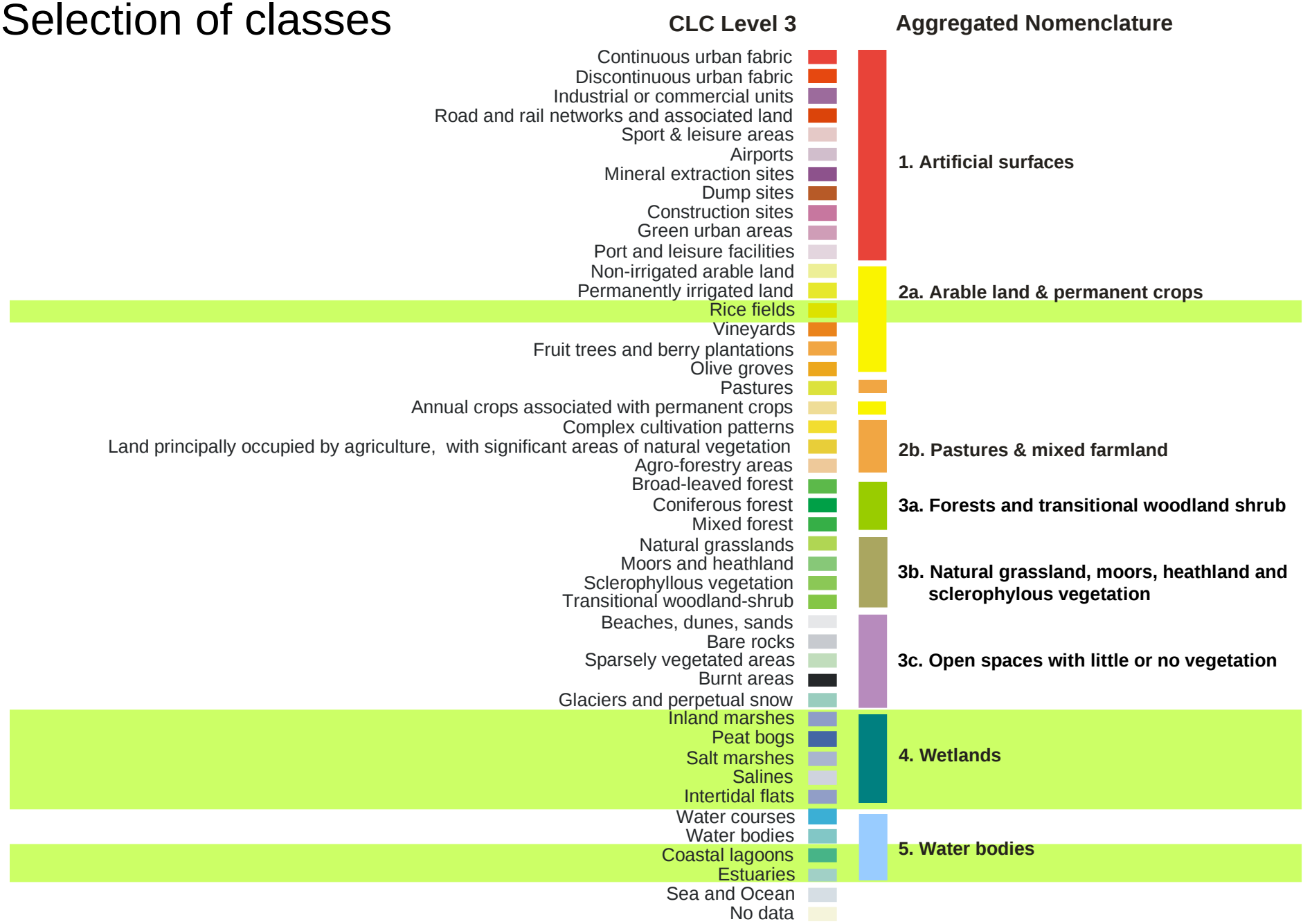
The Euro-mediterranean land: Corine Land Cover



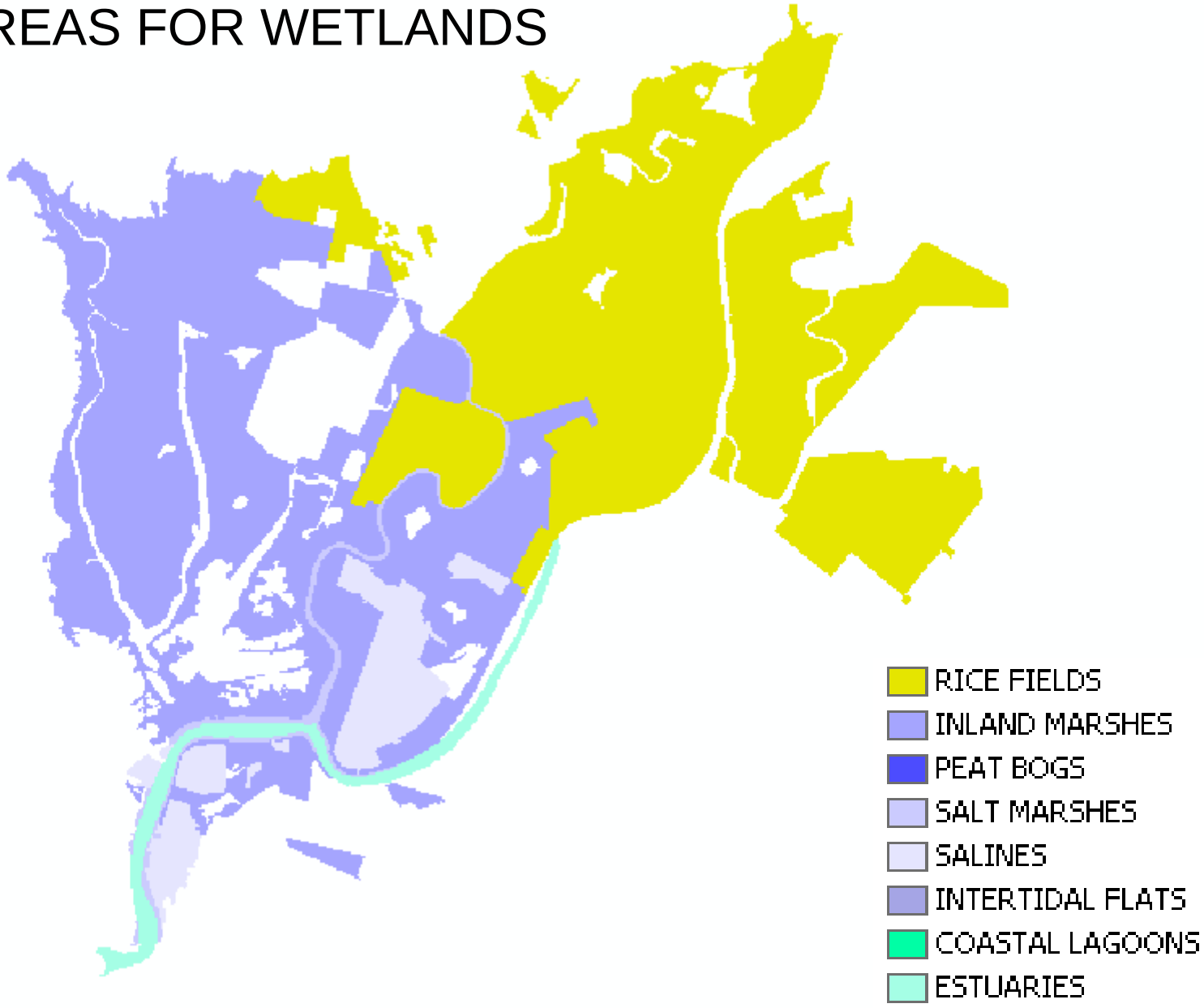
ETC LUSI


CLC 2000

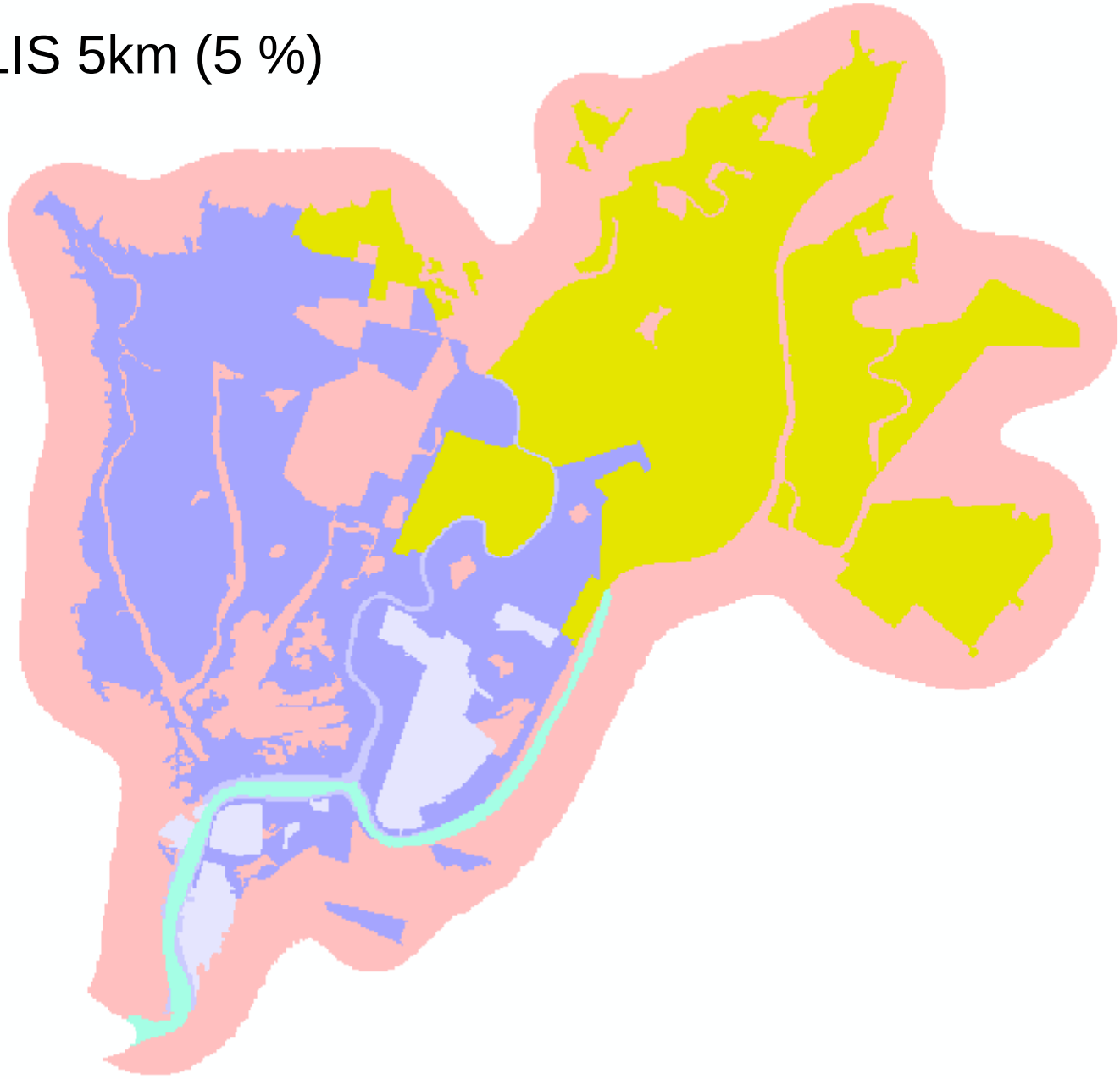
Selection of classes



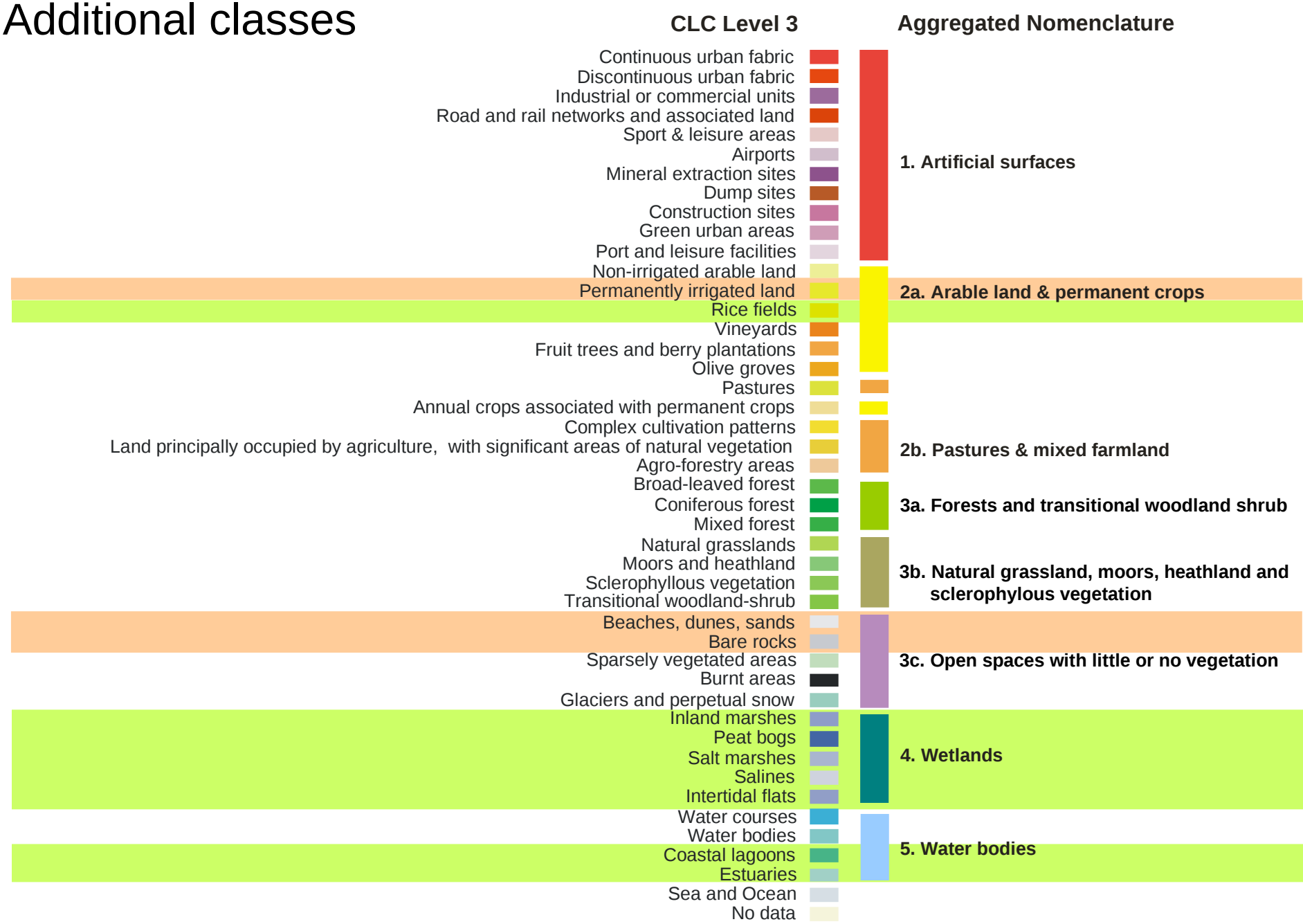
CORE AREAS FOR WETLANDS



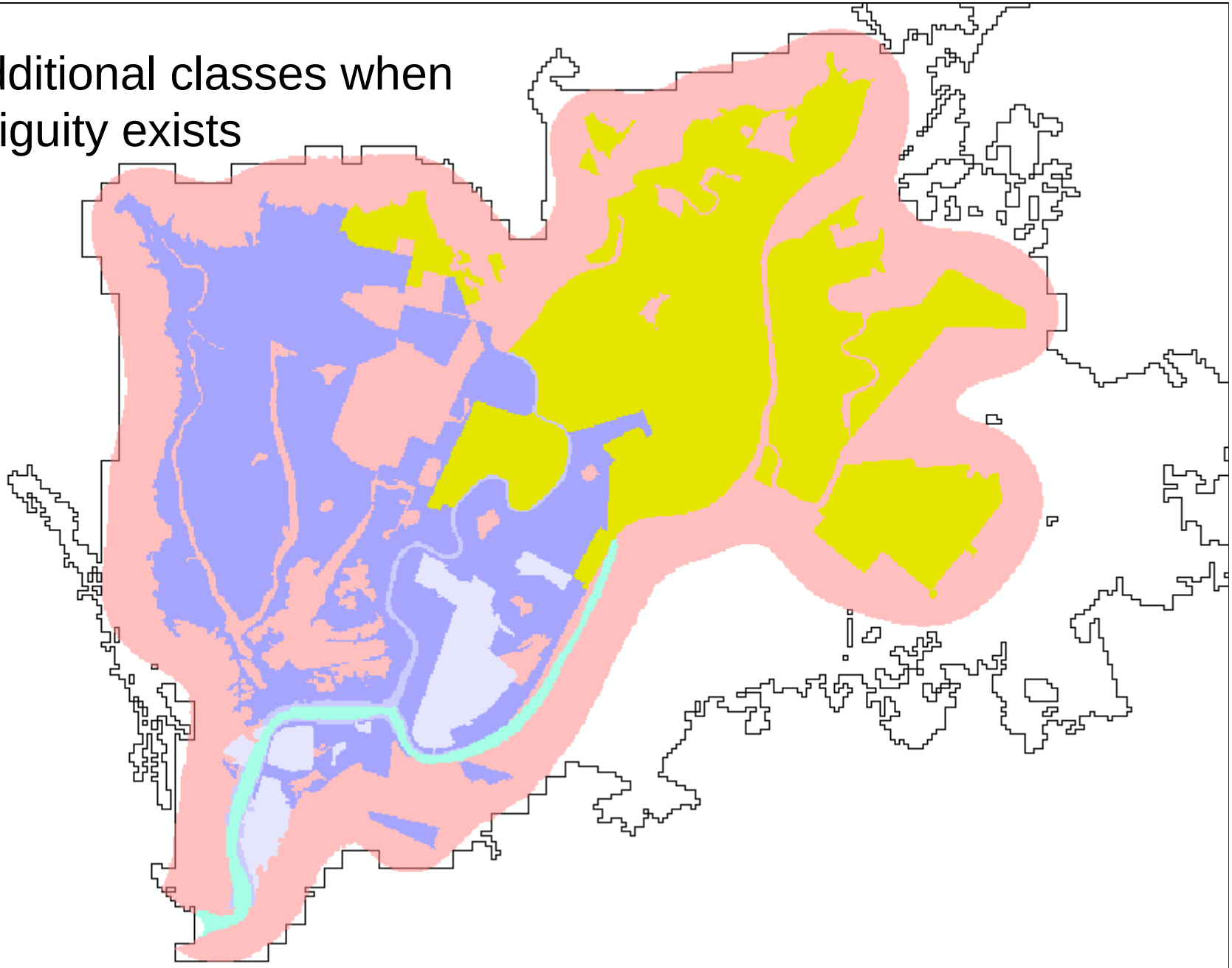
+ CORILIS 5km (5 %)



Additional classes



+ Additional classes when contiguity exists

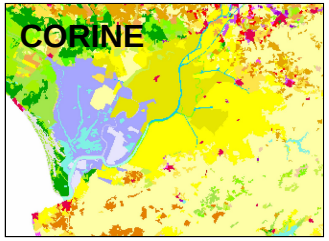


Mapping of Wetland Socio-Ecological Systems (SES)

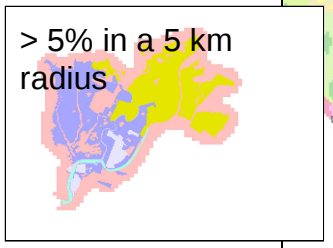
***In practice**:*

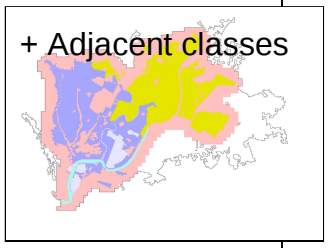
- *Group of municipalities*
- *Parc or reserve or site*
- *Hydro-morphological unit*

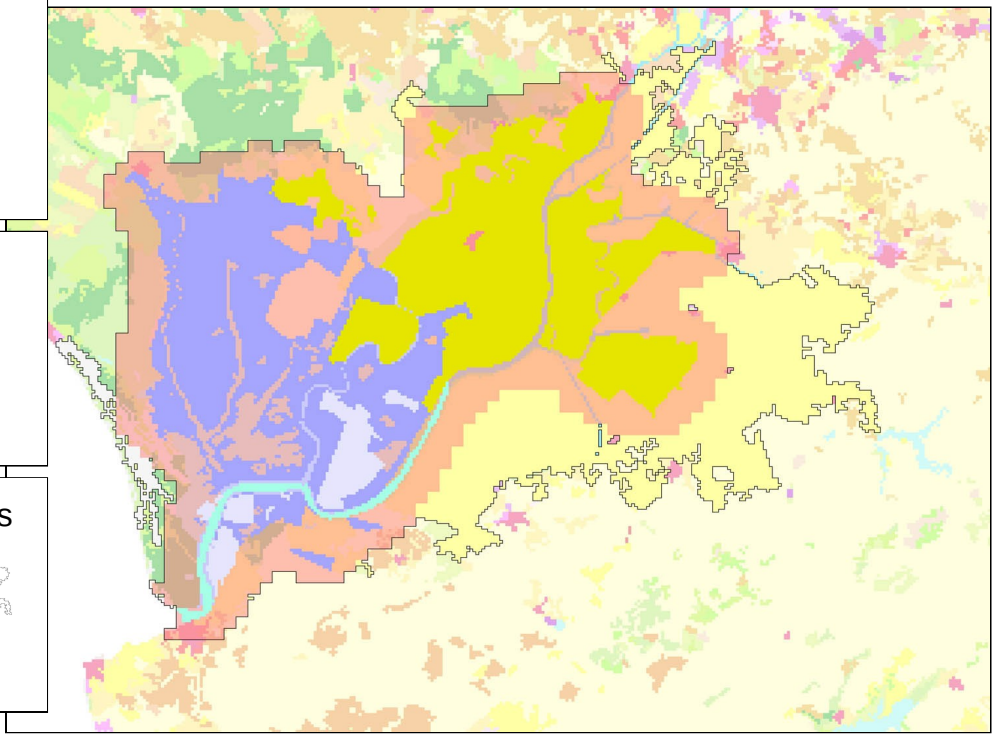
🡐 *or methodology for automatic mapping*



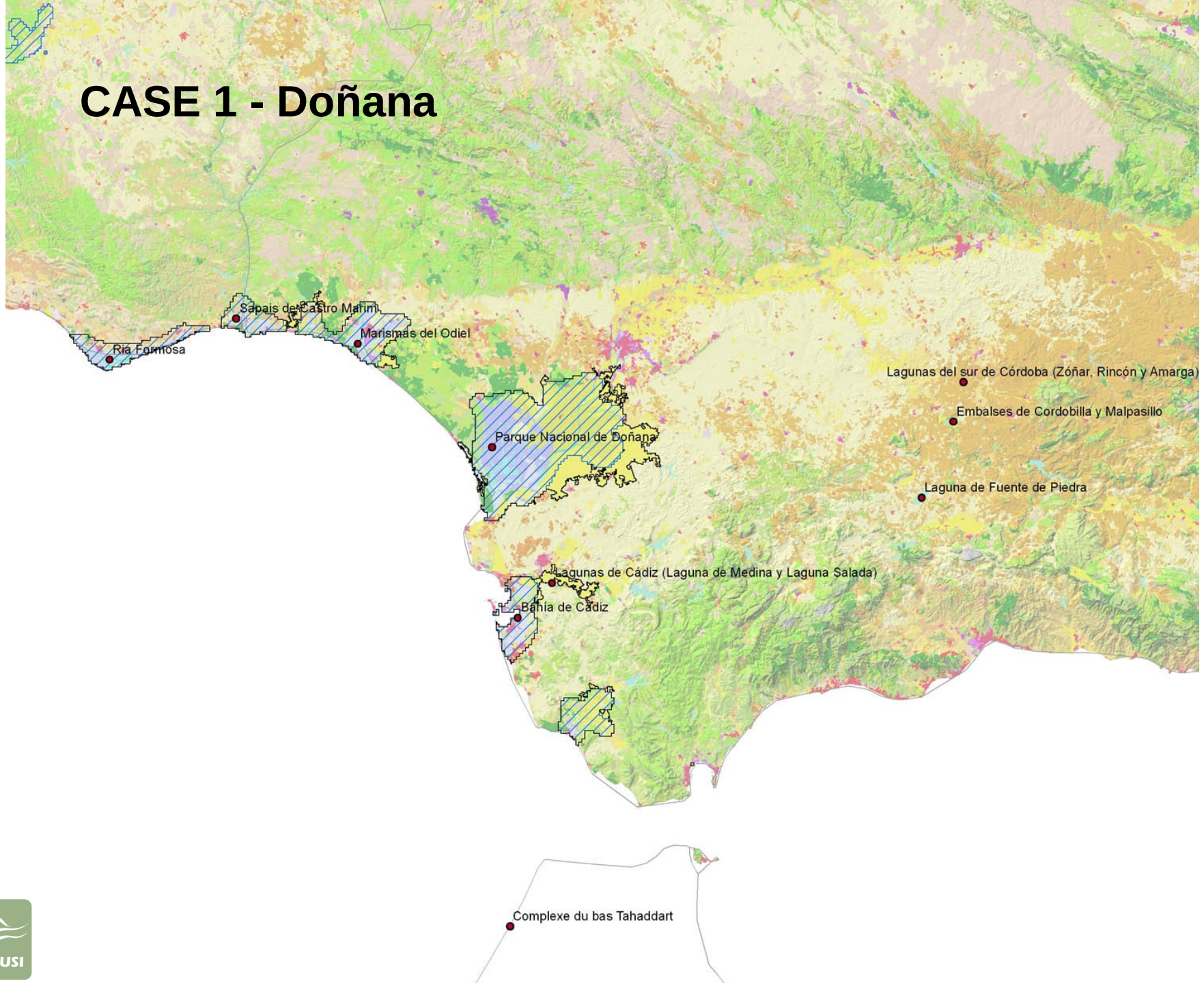




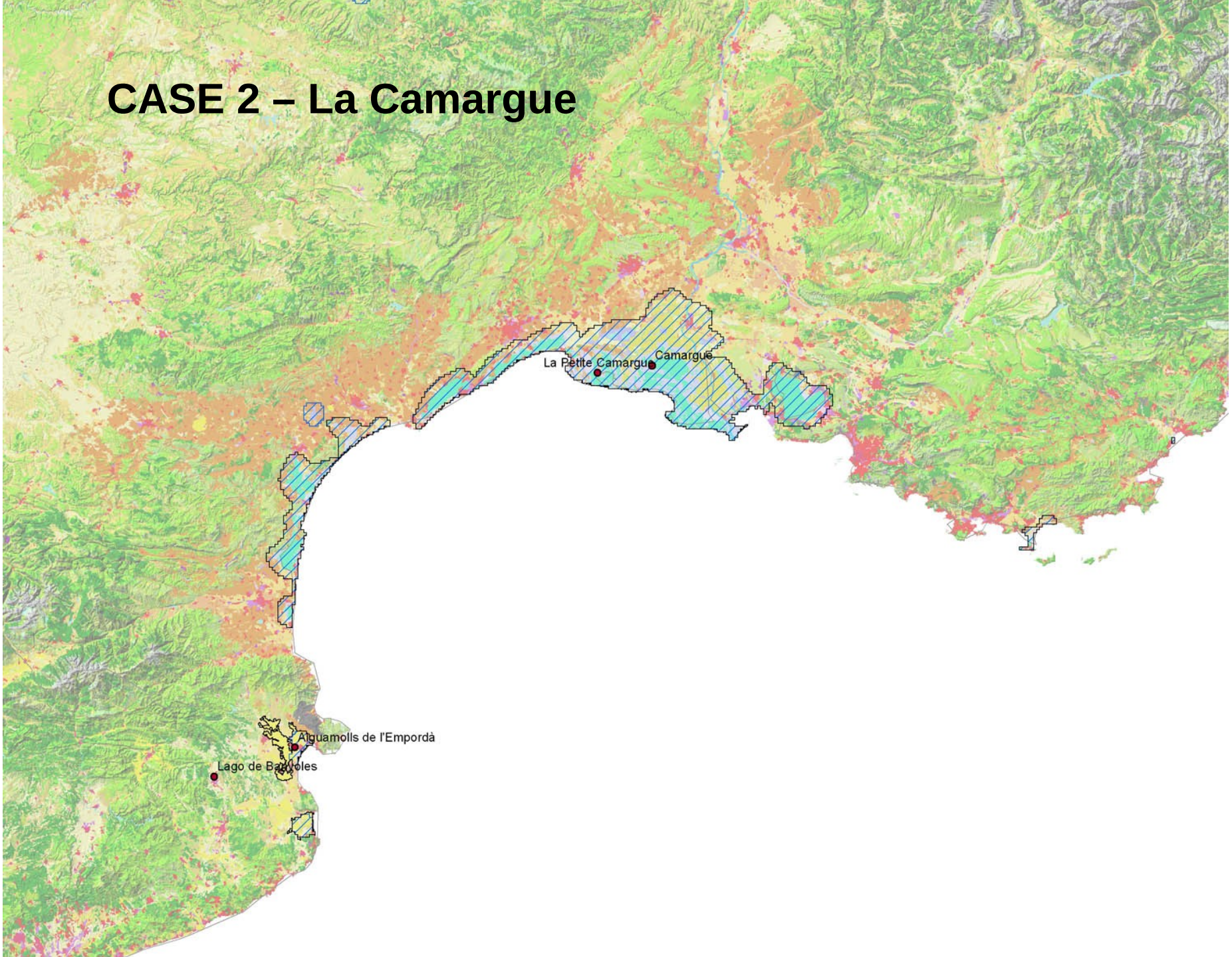




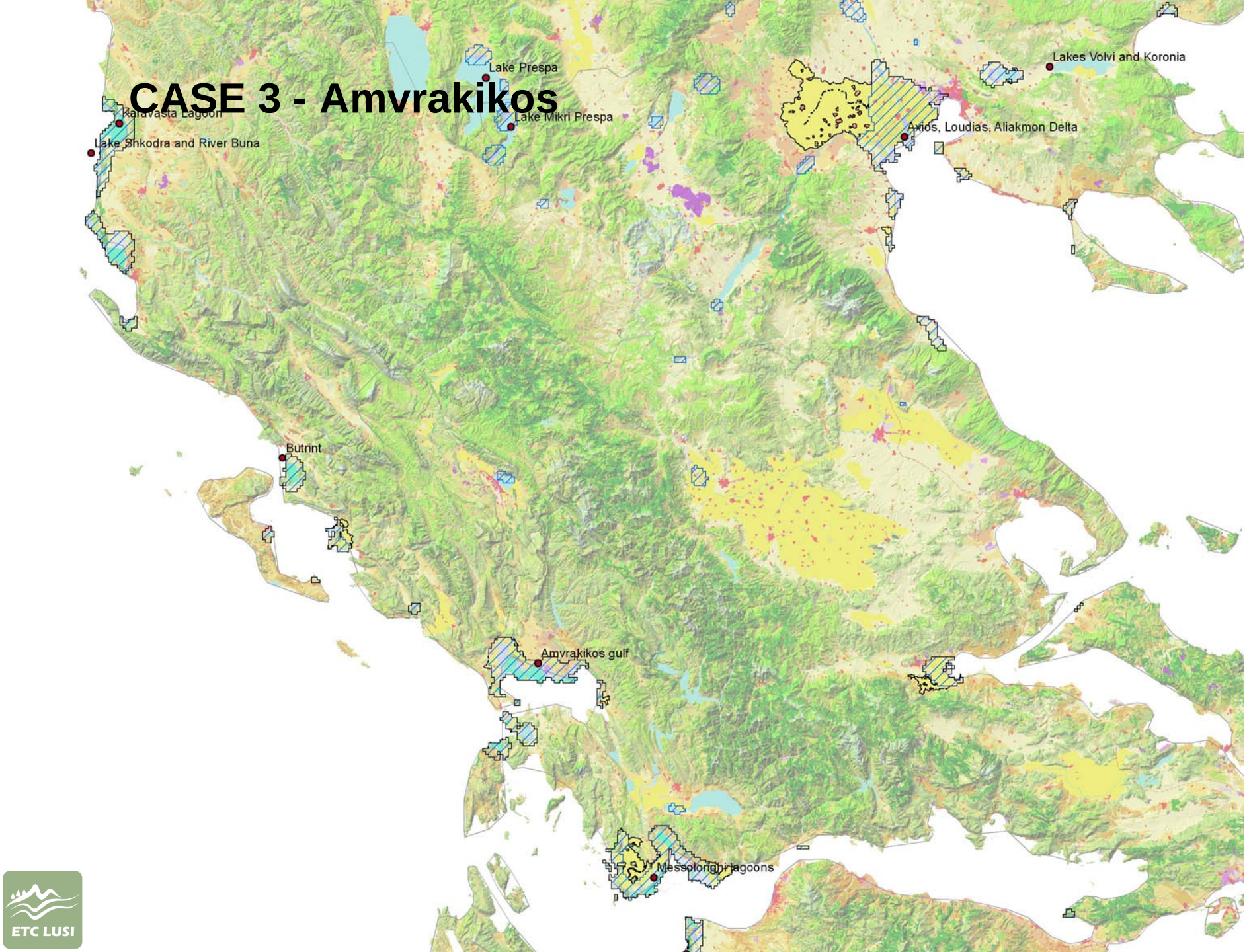
CASE 1 - Doñana



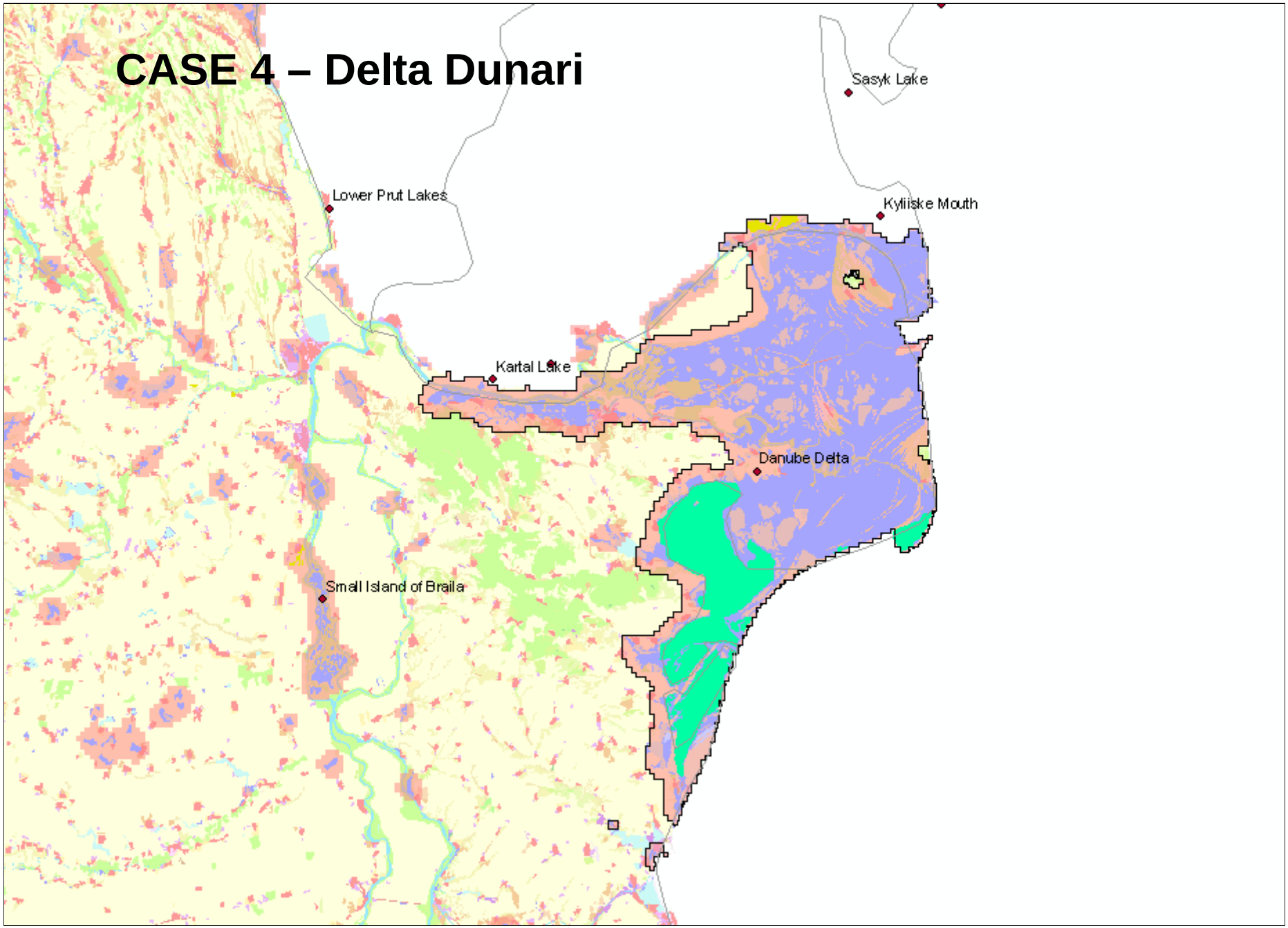
CASE 2 – La Camargue



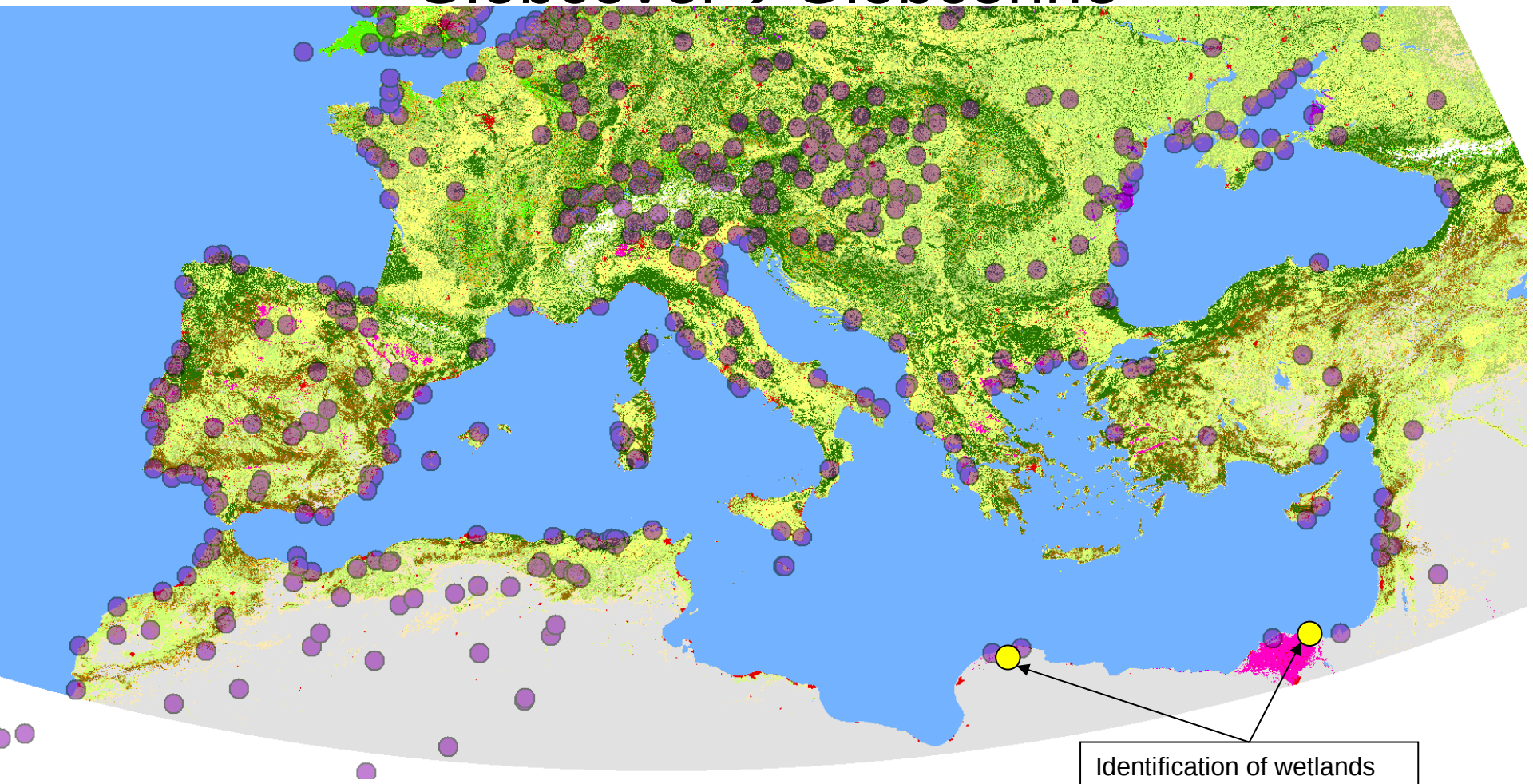
CASE 3 - Amvrakikos



CASE 4 – Delta Dunari

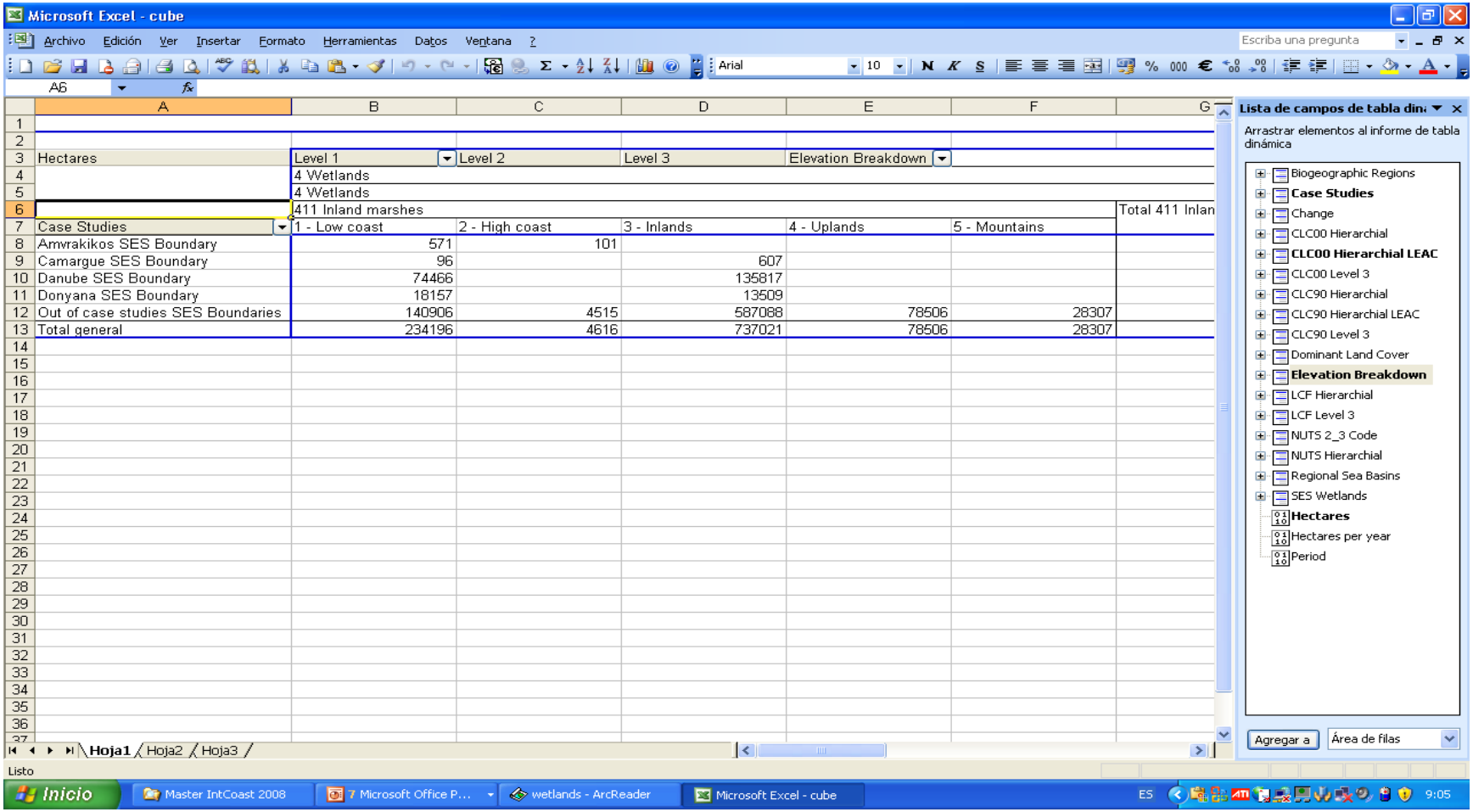


The macro scale picture with Globcover→Globcorine



Sources:
GlobCover2005 – courtesy European Space Agency
Ramsar database – courtesy Wetlands International

OLAP-CUBE prototype for LEAC



Gaps & Needs

- Need inventory of imagery and extracted land cover class information
- Establish compatibility of classifications & standardization
- Establish compatible information bases for north and south rims (coming soon – GlobeCover 2 and Globe Corine)
- Validate remotely sensed information with in situ measurements in selected sites
- Infer ecosystem functions, services, condition, stressors and potential for change from combined (remote and in situ information) for selected sites
- Infer functions, etc. for broader coastal landscape.

Coming Soon at a computer near you!

- GlobeCover 2 and Globe Corine for all Mediterranean Basin (end of 2008)
- Land and Ecosystem Account enhancement & tool prototype (end of 2008)
- Using above proposal for:
  - Linking river, land and sea
  - Linking in situ sites and imagery
  - Focus on coastal wetlands in Med.