THE NUMBERS OF IBIMET

Staff
- Researchers: 64
- Technicians: 17
- Scholars: 17

Funds
- More than 4 M€ per year of which 80% of the total amount is from external sources

Projects:
- National projects: 74%
- International projects: 22%
- Cooperation projects: 4%

IBIMET ON

Both disciplines and models are working at different scales, from the local to the regional and to the global. Integrating and regional models for climate characterization and forecasting are developed and calibrated to reflect the effects of these and interactions with biophysical and agricultural parameters in terms of quality and yield.

Critical interactions between land management, landscape features and vegetation dynamics (agroforestry and agro-ecosystems) are studied at the mesoscale/mesosystems. By implementing physiological, ecophysiological, and socio-economic models, they are able to approach better our economic and environmental issues. The models are then used for decision-making in agro-forestry and environmental policies, with particular emphasis on sustainable and integrated land use management strategies.

KEY ACTIVITIES

- Participatory environmental physiology and land-use layer analysis, analyzing the effect of different land uses (crops and wild) on climate, biota, water, and other ecosystem processes between the environment and the human ecosystem.
- Global carbon cycle and agro-ecosystems at different scales and using different tools (remote, airborne, satellite data) to assess their contribution to long-term greenhouse gas emissions.
- Develop and evaluate new techniques and methods to evaluate different vegetation types in terms of carbon storage, desertification (in desert climates), deforestation and reforestation, and biophysical and environmental carbon cycles of desert-land use.
- Assess the trend of land-use changes and land transformation by modeling the historical spread and potential spread in Mediterranean forests, with particular emphasis on extreme weather conditions and natural (virus, wind) events or threats.
- Assess the impact of climate change and desertification, desertification, water, energy, and food impact mitigation, by means of experimental studies, modeling and simulation, and implementing environmental policies to improve the efficiency of land-use systems and land management, with particular emphasis on desertification, desertification, and reforestation in different areas, with the aim of increasing the crop variety and output in a more productive sector, and increasing the local population's income and quality of life, considering the local agriculture's contribution to the local rural economy.

IBIMET OFFERS

- Technical and scientific support in the field of environmental physiology and ecosystem management, in particular in the Mediterranean area, with emphasis on desertification and arid areas.
- The integration of agroforestry and environmental policies in the local and regional management of desert areas, with the aim of increasing the crop variety and output in a more productive sector, and increasing the local population's income and quality of life, considering the local agriculture's contribution to the local rural economy.
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