CLIMATE - CLIMATE VARIATIONS

- Climate. The climatic system and its components (atmosphere, hydrosphere, cryosphere, lithosphere, biosphere).
- Climatic scales of time and space Climatic factors.
- Planetary radiation and energy budgets.
- Greenhouse gases (sources/distribution/variations). Global warming potential.
- Planetary circulation and climate systems.
- Climate variability and sensitivity) forcing mechanisms and feedback mechanisms.
- Climate models initial and boundary conditions climate equations models categories (1D/2D/3D, coupled, regional and global).
- Climate changes: Natural and anthropogenic climate variations temperature and precipitation trends frequence and intensity of extreme weather events climate predictions, including accuracy assessment.
- Assessment of the impact of climate change to the natural and antropogenic environment.
- International framework for the protection of climate. Policies to keep below a 2 deg Celcius temperature increase.