

ICTP DIPLOMA PROGRAMME IN EARTH SYSTEM PHYSICS 2015-16 SYLLABUS

Biogeochemical Cycles [13 lectures: 19.5 hours]

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- Lecture 1 Introduction and basic definitions
- Lecture 2 The hydrosphere
- Lecture 3 The atmosphere. Ozone photochemistry
- Lecture 4 The atmosphere. Aerosols.
- Lecture 5 The biosphere and the lithosphere.
- Lecture 6 Modelling the global Biogeochemical cycles
- Lecture 7 The carbon cycle 1
- Lecture 8 the carbon cycle 2
- Lecture 9 The nitrogen cycle
- Lecture 10 The phosphorus and sulfur cycles
- Lecture 11 Stability of the oxygen in the atmosphere
- Lecture 12 Conclusions and open discussion.