

ICTP DIPLOMA PROGRAMME IN EARTH SYSTEM PHYSICS 2013-14

SYLLABUS

BIOGEOCHEMICAL CYCLES - {12 Lectures = 18 hours} F. Solmon

Biogeochemical cycles.

- L1. introduction and basic definitions
- L2. The hydrosphere
- L3. The atmosphere. Ozone photochemistry
- L4. The atmosphere. Aerosols.
- L5. The biosphere and the lithosphere.
- L6. Modelling the global Biogeochemical cycles
- L7. The carbon cycle 1
- L8. the carbon cycle 2
- L9. The nitrogen cycle
- L10. The phosphorus and sulfur cycles
- L11. Stability of the oxygen in the atmosphere
- L12. conclusions and open discussion.