

the
abdus salam
international centre for theoretical physics

Earth Systems Science Course in Watersheds &
Coastal Zone Simulation Modeling
2 to 13 October 2000

Programme

VENUE: All lectures will be held at the ICTP, Main Building (Lecture Room "C")
Laboratory Sessions:

Eklund Infolab (Adriatico, lower level 1) and ComputerLab Main Building

Afternoon Discussion Sessions:

Wk 2-6 October: Small Lecture Room (Adriatico, lower level 1)

Wk 9-13 October: Lundqvist Lecture Hall (Adriatico, lower level 1)

1. Daily activity:

Mornings

0830 to 0935 Lecture 1

0940 to 1045 Lecture 2

1100 to 1200 Round Table

Afternoons

1200 to 1400 Lunch Break

1400 to 1430 Extend Instruction

1430 to 1730 Extend Exercises

Course Content (A MORE DETAILED VERSION WILL BE CIRCULATED DURING THE ACTIVITY)

DAY	LECTURE THEME	SPEAKERS	ROUND TABLE THEME	EXTEND OBJECTIVES
Mon 2	Earth Systems Science 1. Systems Analysis 2. Manage. Issues	OPENING & WELCOME T. Hopkins	Open discussion of Participant issues	Intro Extend -Lake Pollution
Tues 3	System Inputs 3. Atmospheric 4. Point Sources	3. G. Tartari 4. R. Pagnotta	Quantification of Pollutant Inputs	Input Functions -Atm Input & simple Runoff
Wed 4	Watersheds 5. Hydrology-runoff 6. Nutrient/OM Input	5. T. Hopkins 6. M. Pettine	Watershed Processes	Process Models -Watershed Nutr & Water
Thurs 5	River 7. Water Quality 8. Bio-chem Processes	7. J. Figueiredo 8. A. Cruzado	Watersheds, Vouga, Ebro, Po	Process Models - Chem. Proc- esses & Mixing
Fri 6	Estuaries 9. Phys Processes 10. Estuarine Circ	9. A. Bergamasco? 10. T. Hopkins	Lagoons - Aveiro, Venice Adriatic	Bio Models - Pred Prey & Phyto - Zoop
Sat 7	Excursion to Po & Venice Lagoon	DETAILS DURING THE WEEK		
Sun 8	Free Day			
Mon 9	Estuaries 11. Carbon Cycling 12. Eutrophication	11. A. Puddu 12. A. Cruzado	Nutrient Input as a Trophic Control	Concept Models, Participant Project Design
Tues 10	Estuarine 13. Tropical Systems 14. Benthos	13. S. Fazi 14. D. Eggleston	Higher Trophic Impacts	Projects Counseling
Wed 11	Coastal 15. Beach Processes 16. Fishery Resource	15. T. Drake 16. Eggleston	Preserving the Coastal Zone Resource	Projects Counseling
Thurs 12	Assessment 17. Ecosystem Models 18. Econ Assessment	17. A. Crisi 18. C. Giupponi	Coupling Science and Economics	Projects Counseling
Fri 13	Assessment 19. Monitoring 20. System Simulation	19. Open 20. T. Hopkins	Optimizing program design	Selected Participant Models

28 September 2000