

ICTP DIPLOMA PROGRAMME IN EARTH SYSTEM PHYSICS 2014-15

SYLLABUS

Earth System Dynamics and Modelling II [12 lectures: 18 hours] - F. Kucharski, G. Giuliani, A. Tompkins, E. Coppola, R. Farneti, F. Giorgi

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| Lecture 1 | Numerical Weather prediction |
| Lecture 2 | Seasonal forecasting |
| Lecture 3 | Predictability assessment |
| Lecture 4 | Climate change |
| Lecture 5, 6 | Decadal coupled climate modes: PDO, AMO, NAO, ... |
| Lecture 7 | Lab Analysis techniques |
| Lecture 8 | Lab Regional modeling |
| Lecture 9 | Lab simplified AGCM |
| Lecture 10 | Lab seasonal forecast |
| Lecture 11 | Lab Cloud modeling |
| Lecture 12 | Lab Climate change analysis of CMIP6 |