

Advanced School on Tropical-Extratropical Interactions on Intra-Seasonal Time Scales Draft Agenda v2

First Week

Monday Morning: Lectures

08:30 - 09:30 Registration + Bank affairs

09:30 - 09:45 Opening (Straus, Stan, Roberson, Kucharski, Henningsen)

09:45 - 10:30 Basic Mechanisms for Teleconnections & Tropical-Extratropical coupling (D. Straus)

10:30 - 11:00 Coffee Break

11:00 - 11:45 Review of teleconnections on intraseasonal time scales (C. Stan)

11:45 - 12:30 Introduction to stratospheric dynamics and stratosphere-troposphere coupling (J. Albers)

12:30 - 14:00 Lunch break

Monday Afternoon: Lab-Related Lectures

14:00 - 17:00 Diagnosing intraseasonal teleconnections in reanalysis data using the IRI Data Library (A. Robertson)

Tuesday Morning: Lectures

09:00 - 09:45 Introduction to the WWRP/WCRP S2S Project (A. Robertson)

09:45 - 10:30 The MJO and its effect on mid-latitudes (D. Straus)

10:30 - 11:00 Coffee Break

11:00 - 11:45 Influence of midlatitude disturbances on the MJO (H. Lin)

11:45 - 12:30 Modeling the influences of the extratropics on the MJO (N. Hall)

12:30 - 14:00 Lunch break

Tuesday Afternoon Lab session

14:00 - 17:00 Introduction to SPEEDY and
Different possible types of experiments with SPEEDY (Angel Munoz and Fred Kucharski)

Wednesday Morning: Lectures

09:00 - 09:45 An empirical dynamical approach to modeling teleconnections using the DREAM model (N. Hall)

09:45 - 10:30 Coupled Tropical-Extratropical interactions, including globally unstable modes (H.Lin)

10:30 - 11:45 Coffee Break + Poster Session

11:45 - 12:30 Role of the stratosphere (sudden warmings) on intraseasonal tropical-extratropical interactions (J. Albers)

12:30 - 14:00 Lunch break

Wednesday Afternoon: Lab Sessions

14:00 - 17:00 Introduction to the S2S Database and diagnosing teleconnections in subseasonal forecasts using the IRI Data Library (A. Robertson, A. Tompkins)

Thursday Morning: Lectures

09:00 - 09:45 Intraseasonal variability of the NH midlatitude and tropics (C. Stan)

09:45 - 10:15 Does the Canary Current Upwelling System Play a Role in Connecting the NAO to Variability in the Position of the Atlantic ITCZ? (Josefina Moraes Arraut)

10:15 - 12:30 Coffee Break + Poster Session

12:30 - 14:00 Lunch break

Thursday Afternoon: Lab Sessions

Friday Morning: Lectures

09:00 - 09:45 Influence of extratropical disturbances on the Atlantic Intertropical Convergence Zone (C. Nobile)

09:45 - 10:15 Fidelity of state-of-the-art models in simulating the observed teleconnection between the Tropical South Atlantic and ISMR (Manish Joshi)

10:15 - 10:45 Coffee Break

10:45 - 11:30 Influence of the midlatitudes in southeastern South America rainfall and circulation on intraseasonal timescales (M. Alvarez)

11:30 - 12:15 Long and short time scales of intraseasonal variability in South America (M. Alvarez)

12:15 - 12:30 Discussion

12:30 - 14:00 Lunch Break

Friday Afternoon: Lab Sessions

Second Week

Monday Morning:

08:30 - 09:30 Bank + administration

09:30 - 12:30 Interim Reports on Lab Projects: Discussion

12:30 - 14:00 Lunch Break

Monday Afternoon: Lab Sessions

Tuesday Morning: Lectures

09:00 - 09:45 Intraseasonal Impacts of the Extratropics on Extreme Rainfall Events (A. Munoz)

09:45 - 10:30 Weather Typing as a potential tool for tropical-extratropical interactions. (A. Munoz)

10:30 - 11:15 Coffee Break

11:15 - 12:00 Circulation Regimes as a way of understanding extratropical intra-seasonal interactions (D. Straus or F. Molteni)

12:00 - 12:30 Discussion

12:30 - 14:00 Lunch Break

Tuesday Afternoon: Lab Sessions

Wednesday Morning: Lectures

09:30 - 10:15 Sub-seasonal variability and teleconnections from the Indo-Pacific ocean in historical multi-decadal runs for the PRIMAVERA project (F. Molteni)

10:15 - 10:45 Wintertime ENSO impact on spring European climate (Ivana Herceg Bulić)

10:45 - 11:30 Coffee Break

11:30 - 12:00 Multidecadal changes in the relationship of storm frequency over Euro-Mediterranean region and ENSO during boreal winter (Kamil Shahzad)

12:00 - 12:30 The link between the tropical precipitation and Hadley circulation: comparing ECMWF reanalysis ERA-20C and ERA-Interim to the AMIP-like experiment ERA-20CM (Ascanio Scambiati)

12:30 - 14:00 Lunch Break

Wednesday Afternoon: Lab Sessions

Thursday Morning:

09:30 - 10:15 How far in advance can we predict changes in the large scale flow over the Euro-Atlantic sector? (L. Ferranti)

10:15 - 10:45 Influence of the Southern Annular Modes on East Asian climate (Fei Zheng)

10:45 - 11:30 Coffee Break

11:30 - 12:00 Madden Julian Oscillation, North Atlantic Oscillation, Mediterranean Oscillation and precipitation in Morocco (Noureddine Semane)

12:00 - 12:30 Reasons for S2S skill improvements (Adrian Tompkins)

12:30 - 14:00 Lunch Break

Thursday Afternoon: Lab Sessions

Friday: Final Reports on Lab Sessions and Closing Ceremonies