

APCC Training Workshop on CLIK (CLimate Information toolKit) : Seasonal Prediction and its Localization

Description

The training workshop will cover various aspects of seasonal prediction such as theoretical background, prediction methodologies, evaluation, and operations. Strengthening the capacity is expected through the training of advanced climate prediction methodologies and practical hands-on sessions with Information communication technology (ICT) based climate prediction tools. It will also increase the technical understanding and information available to NMHS's to implement and tailor national climate outlooks to meet the needs of respective users.

Structure

The workshop consists of one and half day lectures on seasonal prediction and one day hands-on lab session on CLIK software. The lecture will provide necessary background knowledge to understand the operation of CLIK. Hands-on session aims users (trainee) to produce his/her own seasonal prediction using CLIK.

Lecture topics

1. Understanding major climate variability in the region
2. History and background of seasonal prediction
3. Scale interaction
4. Identification of large scale circulation affecting local weather
5. Concept of predictability
6. Statistical seasonal prediction methods
7. Dynamical seasonal prediction methods
8. Comparison between statistical and dynamical methods
9. Localizing seasonal prediction information
10. Evaluation of seasonal prediction and Verification measures
11. Hands-on with CLIK : producing multi model based seasonal forecast
12. Hands-on with CLIK : producing downscaled seasonal forecast
13. Review on operational seasonal prediction and discuss implication of CLIK in the operation
14. Additional information for seamless forecasting

Further information

The workshop will be the most effective to those who are actually involved in issuing seasonal forecast for respective country or region. [Trainees are expected to bring their own monthly mean station rainfall data \(from 1982 at most\)](#) for CLIK hands-on downscaling.

Time		Session/lecture	Lecturer
9/7 (Wed)	9:00-9:10	Opening Ceremony	
	9:10-9:30	Orientation	
	9:30-10:30	Lecture 1. Climate variability	Dr. Jinho Yoo
	10:30-11:00	<i>Coffee break</i>	
	11:00-12:30	Lecture 2. Introduction to seasonal prediction	Dr. Jinho Yoo
	12:30-13:30	Lunch	
	13:30-15:00	Lecture 3. Seasonal prediction methods	Dr. Jinho Yoo
	15:00-15:30	<i>Coffee break</i>	
	15:30-17:00	Lecture 4. Downscaling & evaluation of seasonal prediction	Dr. Yunyoung Lee
	17:00-17:30	Wrap-up	
9/8 (Thur)	9:00-10:30	CLIK hands-on(part I) : Introduction & structure	Dr. Yunyoung Lee
	10:30-11:00	<i>Coffee break</i>	
	11:00-12:30	CLIK hands-on(Part II) : Multi Model prediction	Dr. Yunyoung Lee
	12:30-13:30	Lunch	
	13:30-15:00	CLIK hands-on(Part III) : Data processing	Dr. Yoojin Kim
	15:00-15:30	<i>Coffee break</i>	
	15:30-17:30	CLIK hands-on(Part IV) : Multi Model downscaling	Dr. Yoojin Kim
9/9 (Fri)	9:00-10:30	Lecture 5. Operational implication and additional information	Dr. Jinho Yoo
	10:30-11:00	<i>Coffee break</i>	
	10:30-12:00	Wrap-up and discussion	Dr. Jinho Yoo