



TARGETED TRAINING ACTIVITIES (TTAs)

In 2004, the ICTP Physics of Weather and Climate Section initiated a new programme of educational activities called "Targeted Training Activities" (TTAs).

TTA's distinguishing feature is its team-oriented nature, with the aim of putting together groups of scientists to collaborate on a specific goal in a Developing-Country institution. Such goals can be of different kinds:

- ***Development*** of an *educational team* on climate sciences in a university environment;
- ***Expertise building*** on the use of *numerical weather forecasting*, *seasonal prediction products* or *climate-scenario simulations* made available to the international community by institutions such as ECMWF, NCEP, IRI, IPCC;
- ***Implementation*** of a *project* on the application of *short- and long-term climate predictions to the management of hydrological* or *agricultural resources*.

To achieve this goal each TTA will be "targeted" to a limited number of institutions (from 2 to 5). From each institute, a group of scientists (lead by a co-ordinator) will be chosen. A limited number of "observing students" from Developing Countries may also be allowed to attend. The duration of the TTAs is expected to be between ***two*** and ***four weeks***, with a mixture of formal lectures, laboratory sessions and project work.

Faculty: Lecturers from a number of institutions, with at least one external Director. Joint organization with one specific institution from a Developed Country (acting as a co-sponsor) is welcomed.

Kick-off edition in 2004: 'Course on Climate Dynamics for Climate Research Centers and University Lecturers', August 9 - 27.

The ***Center for Ocean-Land-Atmosphere Studies*** (COLA, Maryland, USA) is the partner organization for all the TTAs.

2006 - 2009 Editions

Targeted Training Activity (TTA) on
"Seasonal Predictability in Tropical Regions: Research and Applications"
August 7 - 18, 2006
TTA Directors: J. Shukla, I-S Kang; Local Organizer: J. Pal & J.-H. Yoo

Targeted Training Activity (TTA) on
"Seasonal Predictability of South Asian Monsoon"
August 6 - 10, 2007
TTA Directors: J. Shukla, I-S Kang; Local Organizer: J.-H. Yoo

Targeted Training Activity (TTA) on
"Seasonal Predictability in Tropical Regions"
followed by Workshop on
"Multi-scale Predictions of the Asian Summer Monsoon"
August 4 - 15, 2008
TTA Directors: J. Shukla, I-S Kang; Local Organizer: J.-H. Yoo
Workshop Director: F. Molteni; Local Organizer: A. Tompkins

Targeted Training Activity (TTA) on
"Predictability of Weather & Climate: Theory & Applications to Intra-Seasonal Variability"
July 27 - August 7, 2009
TTA Directors: J. Shukla, I-S Kang; Local Organizer: J.-H. Yoo

including the:
South Asian Climate Outlook Forum (DG Meeting)
August 6, 2009
Co-sponsor and partner organization:
World Meteorological Organization (WMO Geneva)
Organizers: J. Shukla (ICTP); K. Kumar (WMO)

2010 Edition

Targeted Training Activity (TTA) on
"Statistical Methods in Seasonal Prediction"
August 2 - 13, 2010
TTA Directors: J. Shukla, T. DelSole; Local Organizer: J.-H. Yoo