



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 specfic goal in a Developing-Country institution. Such goals can be of different kinds:

- <u>Development</u> of an <u>educational team</u> on climate sciences in a university environment;
- <u>Expertise</u> <u>building</u> on the use of <u>numerical weather forecasting</u>, <u>seasonal</u> <u>prediction products</u> or <u>climate-scenario simulations</u> 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 - 2010 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

> 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)

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

2012 Edition (upcoming)

Targeted Training Activity (TTA) on
"El Nino Southern Oscillation Monsoon in the Current and Future Climate"
July 30 - August 10, 2012
TTA Directors: J. Shukla, J.-H. Yoo; Local Organizer: F. Kucharski

including the

Experts Meeting on "The Looming Environmental Crisis and Global Sustainability"