Overview of THORPEX activities within Mexico.

Dr. Ricardo Prieto González

April/12/2007
THORPEX activities within Mexico started at the end of 2005, with the designation of the country committee members on the different topics. This was done following a request of the World Meteorological Organization (WMO).
<table>
<thead>
<tr>
<th>Name and affiliation</th>
<th>Subprogram</th>
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<tr>
<td>Dr. René Lobato Sánchez</td>
<td>Predictability and dynamical processes</td>
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<td>Mexican Institute for the Technology of Water</td>
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<td>M. Sc. Fernando Oropeza Rosales</td>
<td>Observation systems</td>
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<td>Dr. Martín Montero Martínez</td>
<td>Numerical weather prediction systems</td>
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<td>Tte. Juan M. Caballero González</td>
<td>Data assimilation</td>
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<td>Mexican Navy</td>
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<td>Dr. Valentina Davydova Belitskaya</td>
<td>Data policy</td>
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<td>Mexican Weather Service</td>
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<td>Lic. Jorge Luis Vázquez Aguirre</td>
<td>Social and economic outcomes</td>
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<td>Agroasemex</td>
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<td>Dr. Ricardo Prieto González</td>
<td>National Coordinator</td>
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<td>Mexican Institute for the Technology of Water</td>
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Since early 2006, the main activities of the Committee members have been the promotion of THORPEX within the meteorological community of Mexico, at different events, as well as the participation on different international meetings.

To Mitigate Natural disasters

To fully realise the societal and economic benefits of improved weather forecast especially in developing and least developed countries.
May, 2006:

4 presentations on the XV Mexican Meteorological Meeting – Puerto Vallarta.

• The International THORPEX program (Ricardo Prieto).
• The Mexican participation on THORPEX (Ricardo Prieto)
• Data assimilation (Juan M. Caballero).
• Observing Systems (Fernando Oropeza).
May, 2006:

Participation on the THORPEX North-America Regional Meeting.
Montreal, Canada.

Main atmospheric processes that affect the country in the range 1-14 days, having important socio-economical consequences:

- Tropical cyclones and easterly waves
- Cold fronts and “Nortes”
- Heat waves and forest fires.
- North American Monsoon.
- Air pollution and dispersion effects.
As a follow up of the 2006 Regional Meeting, we created a webpage dedicated to THORPEX-México

http://galileo.imta.mx/ThorpexFMexico/pagina.php

En octubre de 2005 el representante permanente técnico de México ante la Organización Meteorológica Mundial, Dr. Michel Rosengaus Moskinsky, presentó al Dr. Michel Jarraud, Secretario General de la Organización Meteorológica Mundial, el grupo de investigadores y científicos encargados de cumplir con las tareas encomendadas en los diferentes subprogramas del proyecto THORPEX (THe Observing system Research and Predictability EXperiment) este grupo está integrado de acuerdo a la siguiente tabla.
August, 2006:

Participation on Valentina Davydova and Jorge L. Vazquez on a SERA workshop at Boulder, Colorado.
December, 2006:

Participation on the Second THORPEX International Science Symposium, Landshut, Germany

The work presented proposed the construction of an automatic system (embedded within TIGGE), which is able to downscale (to municipal or county scale) the most important meteorological and socio-economic information, to be used by local authorities without the difficulties of searching it under high stress situations.
April, 2007:

Participation on the First THORPEX Pacific Asian Regional (T-PARC) Planning Workshop.

Monterey, California.
April, 2007:
The North-America Regional THORPEX meeting.
Mexican Weather Service, Mexico City.
COMMENTS:

* Our participation in THORPEX is relatively recent and has been limited mainly to participation on meetings, as well as the adaptation of some previous work to communicate within the country and abroad, the needs we have related to the atmospheric processes that affect us on the range of 1-14 days.

* The financial sources have been in several cases from NCAR and WMO, IMTA and SEMAR programs. Today, there is no a specific financial source within Mexico which supports THORPEX activities.