

T-REX

Terrain-Induced Rotor Experiment
March-April 2006

AMS 13th MM Conference, Whistler, BC

August 12, 2008





T-REX Evening Meeting

12 August 2008

Telus Conference Center


Whistler, BC

AGENDA

1. T-REX Special Collection
 2. Joint Working Group Efforts and Future Plans
 3. Plans for 3rd T-REX Workshop
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T-REX Special Collection Background

- Agreed to pursue a “virtual” special issue (Special Collection) with AMS journals (T-REX Data Workshop, April 2007)
- Proposal submitted in May 2007 including the list of 30 planned manuscripts
- Agreements reached with the AMS Publication Commissioner (Dave Jorgensen) in June 2007
- T-REX Special Collection parameters:
 - Spans across all AMS journals
 - Manuscripts go through the regular review process and papers appear in press following their own peer review dynamics
 - Papers are marked with a special T-REX logo as they appear in press
 - No special issue editor, instead Vanda Grubišić acts as a “consulting editor” and Jim Doyle (MWR editor) acts as a coordinator
 - Original submission window August 2007 to August 2008



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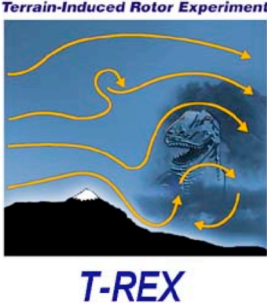
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Terrain-Induced Rotor Experiment (T-Rex) - BAMS, MWR, JAS, JAMC, JTECH


Jim Doyle
Special Collection Coordinator

Theme Description:
The Terrain-Induced Rotor Experiment (T-REX) is a coordinated international project focused on the investigation of atmospheric rotors and closely related phenomena in complex terrain. The T-REX field campaign took place during March and April 2006 in the lee of the southern Sierra Nevada in eastern California, a region notorious for intense windstorms and rotors. The pilot Sierra Rotors campaign took place in the same location in March and April 2004. The rich dataset collected during T-REX along with high-resolution models and theoretical advancements provide the basis for an integrative perspective on rotors, mountain waves and boundary-layer dynamics. Click here to view the collection preface and a list of articles in this special collection. The articles will be presented below as they are published. The articles will appear in the several journal titles: *Bulletin of the American Meteorological Society*, *Monthly Weather Review*, *Journal of the Atmospheric Sciences*, *Journal of Applied Meteorology and Climatology* and *Journal of Atmospheric and Oceanic Technology*.

Theme Icon: 



Abstracts for all AMS articles are available to everyone, as is the full text of Bulletin articles. Access to full-text HTML and PDF articles in the technical journals is limited to paid subscribers.

 denotes open access content.

James D. Doyle and Dale R. Durran, 2007: Rotor and Subrotor Dynamics in the Lee of Three-Dimensional Terrain. *Journal of the Atmospheric Sciences*, Vol. 64, Iss. 12, pp. 4202–4221.
[Abstract](#) · [Full Text](#) · [PDF \(2.95M\)](#)

Vanda Grubišić and Brian J. Billings, 2007: The Intense Lee-Wave Rotor Event of Sierra Rotors TOP 8. *Journal of the Atmospheric Sciences*, Vol. 64, Iss. 12, pp. 4178–4201.
[Abstract](#) · [Full Text](#) · [PDF \(5.58M\)](#)


Thomas Raab, Georg Mayr, 2007: Hydraulic interpretation of the footprints of Sierra Nevada windstorms tracked with an automobile measurement system. *Journal of Applied Meteorology and Climatology*, 2008 early online release.
[Abstract](#) · [PDF \(3.38M\)](#)

Shiyuan Zhong, Ju Li, C. David Whiteman, Xindi Bian, Wenqing Yao, 2007: Climatology of high wind events in the Owens Valley, California. *Monthly Weather Review*, 2008 early online release.
[Abstract](#) · [PDF \(10.89M\)](#)

Qingfang Jiang, James D. Doyle, 2007: Diurnal variation of downslope winds in Owens Valley during the Sierra Rotor Experiment. *Monthly Weather Review*, 2008 early online release.
[Abstract](#) · [PDF \(9.73M\)](#)

Vanda Grubišić and Brian J. Billings, 2008: Climatology of the Sierra Nevada Mountain-Wave Events. *Monthly Weather Review*, Vol. 136, Iss. 2, pp. 757–768.
[Abstract](#) · [Full Text](#) · [PDF \(2.05M\)](#)

Gregory S. Poulos, Junhong Wang, Dean K. Lauritsen, and Harold L. Cole, 2007: Targeted Dropwindsondes in Complex Terrain. *Journal of Atmospheric and Oceanic Technology*, Vol. 24, Iss. 8, pp. 1489–1494.
[Abstract](#) · [Full Text](#) · [PDF \(1021K\)](#)

Vanda Grubišić, James D. Doyle, Joachim Kuetner, Stephen Mobbs, Ronald B. Smith, C. David Whiteman, Richard Dirks, Stanley Czyzyk, Stephen A. Cohn, Simon Vosper, Martin Weissmann, Samuel Haimov, Stephan De Wekker, Laura L. Pan, Fotini Katopodis Chow, 2008: THE TERRAIN-INDUCED ROTOR EXPERIMENT: AN OVERVIEW OF THE FIELD CAMPAIGN AND SOME HIGHLIGHTS OF SPECIAL OBSERVATIONS. *Bulletin of the American Meteorological Society*, 2008 early online release.
 [Abstract](#) · [PDF \(15.57M\)](#)

T-REX Special Collection

Current Status

- All AMS journal Chief Editors on board
- T-REX logo accepted as our special logo
- 6 SRP and pre-T-REX papers included in the Special Collection
- Based on the poll following the 2008 T-REX Workshop at Yale
 - 10(?) manuscripts submitted, 4 accepted and in press stage
 - # of additional manuscripts close to the submission stage
 - Additional manuscripts planned beyond the initial 30

T-REX Special Collection

Outstanding Issues


- Extension of the submission window
- Limited edition print volume –
 - Cost related to: i) # of papers included, ii) journals, iii) number of copies
 - Cut off date?

Joint Working Group Efforts

- Numerical Modeling Working Group
Intercomparison Efforts
 - Mountain Wave (Jim Doyle)
 - Valley Winds (Juerg Schmidli)
- Need / ideas for additional ones



T-REX Workshops

- 2007 March, NCAR, Boulder CO
 - 2008 March, Yale Dept G&G, New Haven, CT
 - 2009 ?
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Announcements

- **EGU 2009** – 19-24 April, Vienna, Austria
Special session on GW, papers on T-REX encouraged
- **30th ICAM** – May 2009, Germany
- **AMS 13th Conference on Mesoscale Processes** –
August 2009 in ?
Focus on vortex dynamics