

## TAWEPI

### Related presentations

- 2006 Buehner, M., A. Zadra and A. Mahidjiba  
*Singular vector study of the excitation of Rossby-wave trains*  
Adjoint Workshop, Obergurgl, Austria  
Oral presentation by M. Buehner
- 2007 Zadra, A.  
*Modelling & data assimilation activities in TAWEPI*  
Oral presentation in 2007 CMOS Congress, St-John's, Newfoundland
- 2007 Reszka, M., S. Polavarapu and L. Fillion  
*New 3D-Var balance constraints at Environment Canada*  
SPARC IPY Workshop, U. of Toronto, Toronto (ON), Sep 2007  
Oral presentation by M. Reszka
- 2008 Zadra, A.  
*TAWEPI: overview of projects and collaborations*  
Oral presentation, 1<sup>st</sup> TAWEPI Workshop, RPN, Dorval
- 2008 Zadra, A.  
*Status of IPY activities at the CMC*  
Oral presentation, 1<sup>st</sup> TAWEPI Workshop, RPN, Dorval
- 2008 Chung, Y.-C., S. Bélair, and J. Mailhot, J.  
Improved snow modeling over sea-ice.  
1<sup>st</sup> TAWEPI Workshop, RPN, Dorval  
Oral presentation by Y.-C. Chung
- 2008 Zadra, A.  
*TAWEPI: overview of projects and collaborations*  
Oral presentation, EC Sea-Ice Modelling Workshop, RPN, Dorval
- 2008 Zadra, A.  
*Polar-GEM: an overview of RPN projects for the International Polar Year*  
Oral presentation, CRCMD Workshop, Esterel, Quebec
- 2008 Zadra, A.  
*TAWEPI: first year of modelling and data assimilation activities*  
Oral presentation, 2008 CMOS Congress, Kelowna, British Columbia
- 2008 Chung, Y.-C., S. Belair, J. Mailhot and A. Zadra  
*Evaluation of coupled snowpack / sea-ice model using SHEBA observations*  
2008 CMOS Congress, Kelowna, British Columbia  
Poster presented by A. Zadra
- 2008 Deacu, D., A. Zadra, J. Hanesiak and A. Caya  
*Modelling the Arctic boundary layer over the Eastern Beaufort Sea and Banks island with GEM-LAM-2.5*  
CMOS Congress, Kelowna, British Columbia  
Oral presentation by D. Deacu

- 2008 Mahidjiba, A., M. Buehner and A. Zadra  
*Sensitivity of weather forecasts over the Arctic due to analysis errors in the extra-tropics and vice-versa*  
 CMOS Congress, Kelowna, British Columbia  
 Poster presentation by A. Mahidjiba
- 2008 Chosson, F., P. Vaillancourt, J. Milbrandt, J. Mailhot and A. Zadra  
*Modelling Mixed-Phase Arctic Clouds using the Polar-GEM*  
 CMOS Congress, Kelowna, British Columbia  
 Poster presentation by F. Chosson
- 2008 Zadra, A.  
*TAWEPI: status of modeling and data assimilation activities*  
 IPY-Cryosphere Project Meeting, Toronto, November 2008  
 Oral presentation by A. Zadra
- 2008 F. Chosson: Participation in session "Arctic Mixed-Phase Stratiform Clouds"  
 GCSS/WMO Cloud Modelling Workshop, Cozumel, Mexico, June 2008
- 2008 Chosson, F. J. A. Milbrandt and P. Vaillancourt  
*Simulation of precipitation over the Arctic basin: a sensitivity study with the Polar-GEM modeling system*  
 Arctic Change 2008, Quebec (QC)  
 Oral presentation by F. Chosson
- 2008 Chung, Y.-C., S.Bélair, S. and J. Mailhot,  
*Evaluation of a coupled sea ice system including blowing snow processes over arctic.*  
 Arctic Change, Quebec City, QC, Canada  
 Oral presentation by Y.-C. Chung
- 2009 Pancrati, O., L. Garand and S. Heilliette  
*Hyperspectral model validation in cloudy radiance space from AIRS*  
 16<sup>th</sup> Conference on Satellite Meteorology and Oceanography  
 5<sup>th</sup> Annual Symposium on Future Operational Environmental Satellite Systems – NPOESS and GOES-R  
 Phoenix (AZ), Jan 2009  
 Poster presentation by O. Pancrati
- 2009 Nordeng, T. E. et al.  
*IPY-THORPEX Cluster*  
 3rd Thorpex Science Symposium, Monterey (CA), USA, May 2009  
 Oral presentation by T. E. Nordeng. Including contribution on TAWEPI (slides prepared by A. Zadra)
- 2009 Zadra, A.  
*TAWEPI: an overview of modelling and data assimilation activities*  
 Canada-Finland Workshop, Montreal (QC), May 2009  
 Oral presentation by A. Zadra
- 2009 Zadra, A.  
*TAWEPI: and update on modeling and data assimilation activities*  
 2009 CMOS Congress, Halifax (NS), June 2009  
 Oral presentation by A. Zadra
- 2009 Deacu, D., A. Zadra and J. Hanesiak

- Simulating wind channeling over Frobisher Bay and its interaction with downslope winds during the 7-8 November 2006 wind event*  
2009 CMOS Congress, Halifax (NS), June 2009  
Poster presented by A. Zadra
- 2009 Pancrati, O., L. Garand and S. Heilliette  
*Model validation of cloud and radiation from the Atmospheric Infrared Radiance Sounder (AIRS)*  
2009 CMOS Congress, Halifax (NS), June 2009  
Poster presented by O. Pancrati
- 2009 Zadra, A.  
*TAWEPI: a summary of modeling and data assimilation activities*  
MOCA-09 Joint Assembly, Montreal (QC), July 2009  
Oral presentation by A. Zadra
- 2009 Chung, Y.-C., S. Belair, J. Mailhot and A. Zadra  
*The impact of blowing snow on Arctic sea ice and snow: results from an improved sea-ice / snow / blowing snow coupled system*  
MOCA-09 Joint Assembly, Montreal (QC), July 2009  
Poster presentation by Y.-C. Chung
- 2009 Liu, Z., J. Hanesiak, R. Martin, R. Goodson, R. Steward, D. Deacu and A. Zadra  
*Case study of GEM-LAM over Southern Baffin Island*  
MOCA-09 Joint Assembly, Montreal (QC), July 2009  
Poster presentation by Z. Liu
- 2009 Y.-C. Chung  
*Snow evolution over mid-latitudes and Arctic regions*  
Department of Hydraulic Engineering, Civil Engineering, National Taiwan University, Taipei, Taiwan
- 2010 F. Chosson, P. Vaillancourt and J. Milbrandt  
*Modelling polar clouds*  
Oral presentation for the kick-off of the Polar Precipitation Mission/Earth Explorer 8  
McGill University, Montreal (QC)
- 2010 O. Pancrati, L. Garand and S. Heilliette  
*Validation of forecast cloud parameters from multispectral AIRS radiances*  
Internal Seminar, Canadian Meteorology Centre, Dorval (QC)  
Oral presentation by O. Pancrati
- 2010 A. Zadra  
*Overview of recent NWP projects at RPN/Environment Canada: forecast of tropical cyclones, modelling of boundary layer, sensitivity studies in the Arctic*  
UK Meteorology Office, Exeter, UK, March 2010  
Oral presentation by A. Zadra
- 2010 Y.-C. Chung  
*Evaluation of a 1-D multilayer blowing snow/snow/sea ice coupled system using SHEBA observations*  
Internal Seminar, Canadian Meteorology Centre, Dorval (QC)

## Related papers and reports

Norden, T.E., G. Brunet and J. Caughney (2007): *Improvements of weather forecasts in polar regions*. WMO Bulletin, 56 (4), 250-256.

Chung, Y.-C., Bélair, S. and Mailhot, J. (2008): *Wind Effect on Snow Over Arctic Sea-ice: Evaluation of a Sea-ice / Snow / Blowing Snow Model*. Proceedings of the International Snow Science Workshop (ISSW), Whistler, BC, Canada. 950-957.

Chung, Y.-C., S. Bélair, and J. Mailhot (2009): *Simulation of Snow on Arctic Sea Ice Using A Coupled Snow/Ice Model*. *Journal of Hydrometeorology*. *Journal of Hydrometeorology*, **11**, 199-210.

Deacu, D., A. Zadra and J. Hanesiak (2009): *Simulating wind channeling over Frobisher bay and its interaction with downslope winds during the 7-8 November 2006 wind event*. *Atmosphere-Ocean*, in press.

Buehner, M. and A. Mahidjiba (2009): *Sensitivity of global ensemble forecasts to the initial ensemble mean and perturbations: Comparison of EnKF, Singular Vector and 4D-Var approaches*. Accepted in *Monthly Weather Review*.

Garand, L., O. Pancrati, and S. Heilliette (2010): *Validation of forecast cloud parameters from multi-spectral AIRS radiances*. In preparation.

*Environment Canada's International Polar Year 2010 Achievements Report*: a report based on material from five IPY projects led by Environment Canada's scientists, including TAWEPI.