

## DOMINIQUE BLAIN

Environment Canada  
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Citizenship : Canadian

Languages : French and English (fluent)  
Spanish (functional)

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### Summary

Scientist with experience in:

- environmental research, monitoring and reporting
  - leading multidisciplinary scientific teams and networks
  - implementing international environmental agreements
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### Current Position (Feb 2013 - )

Director, Pollutant Inventories and Reporting  
Environment Canada  
Science and Technology Branch

#### Products

Canada's national inventories of emissions of greenhouse gases and atmospheric pollutants, submitted on behalf of the Government of Canada to the United Nations Framework Convention on Climate Change (UNFCCC) and the United Nations Economic Commission for Europe (UNECE).

Technical and scientific assessments of impacts of human activities on biogeochemical cycles and atmospheric emissions.

#### Activities

Manages a multidisciplinary team of scientists and engineers who develop and implement methods to quantify anthropogenic emissions of greenhouse gases and pollutants at the national scale.

Leads partnerships and collaborative agreements with experts, scientists and researchers in government, academia and industry to address gaps in scientific and technical knowledge in a wide variety of fields, with emphasis on sources of emissions in the energy, industry and land resource sectors.

UNFCCC inventory focal point for the Government of Canada.

## **DOMINIQUE BLAIN**

### **Former Positions**

#### **Manager, Greenhouse Gas Division (2007-2011)**

Environment Canada

Chaired a national advisory committee of academics, government experts and scientists for the monitoring and reporting of land-based greenhouse gas emissions and sinks. Managed a national framework and oversaw collective work planning for the annual preparation and delivery of land-based greenhouse gas estimates.

Board member of the Canadian Carbon Program (2008-2010).

Developed and implemented GHG estimation methods in Canada's land management sectors. Established advanced quality assurance procedures involving international reviewers.

#### **Senior Policy Advisor (2012 – one-year assignment)**

Economics and Programs Branch

Canadian Forest Service of Natural Resources Canada

Senior Canadian negotiator under the United Nations Framework Convention on Climate Change at the 18<sup>th</sup> Conference of the Parties to the UNFCCC in Doha, Qatar. Lead on land use, forests and agriculture and their contribution to national commitments to reduce greenhouse gas emissions.

### **International Contributions**

Lead author and Coordinating lead author in methodological reports published by the Intergovernmental Panel on Climate Change in 2003, 2006 and 2013.

Canada's representative on the Bureau of the IPCC Task Force on National Greenhouse Gas Inventories (2012-2015).

Accredited inventory reviewer with the UNFCCC since 2000.

### **Peer Reviewed Publications**

Lemprière TC, WA Kurz, EH Hogg, C Schmoll, GJ Rampley, D Yemshanov, DW McKenney, R Gilsenan, A Beatch, D Blain, JS Bhatti and E Krcmar 2013 Canadian boreal forests and climate change mitigation *Environmental Reviews* 21(4): 293-321

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Intergovernmental Panel on Climate Change (IPCC) *2013 Supplement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Wetlands* Hiraishi T, T Krug, K Tanabe, N Srivastava, J Baasansuren, M Fukuda and TG Troxler (eds). IPCC pub Switzerland (Coordinating Lead Author – Rewetted Organic Soils)

Stinson G, WA. Kurz, CE Smyth, ET Neilson, CC Dymond, JM Metsaranta, C. Boisvenue, GJ Rampley, Q. Li, TM White and D. Blain 2011 An inventory-based analysis of Canada's managed forest carbon dynamics, 1990 to 2008. *Global Change Biology* 17(6): 2227-2244.

Chen W, D Blain, J Li, K Keohler, R Fraser, Y Zhang, S Leblanc, I Olthof, J Wang and M McGovern 2009 Biomass measurements and relationships with Landsat-7/ETM + and JERS-1/SAR data over Canada's western sub-arctic and low arctic *Int. J. Remote Sensing* 30(9): 2355-2376

Chen W, D Blain, J Li, R Fraser, Y Zhang, S Leblanc, K Koehler, I Olthof, J Wang, and M McGovern (2009), Estimating carbon release caused by land use changes over Canada's north during 1985–1990 and 1990–2000 using satellite Earth observation, *J. Geophys. Res.*, 114, G01017

Intergovernmental Panel on Climate Change IPCC *2006 IPCC Guidelines for National Greenhouse Gas inventories*, prepared by the Task Force on national greenhouse gas inventories Eggleston HS, L Biendia, K Miwa, T Ngara and K Tanabe (eds). IGES pub Japan (Agriculture, Forestry and Other Land Use (Coordinating Lead Author – Wetlands)

### Other Publications

Environment Canada Canada's National Inventory of Greenhouse Gas Sources and Sinks in Canada (Lead Author to all annual editions since 2000).

Blain, D and P Lafleur 2010 Science advances and estimation of wetland emissions. IPCC Expert Meeting, WMO Geneva, October 20, 2010

T Lemprière, P Bernier, A Carroll, M Flannigan, R Gilsenan, D McKenney, T Hogg, J Pedlar and D Blain 2008 *The importance of Forest Sector Adaptation to Climate Change*. Information Report NOR-X-416E Canadian Forest Service Natural Resources Canada 2008

Row C. and D. Blain *Revising the International Guidelines for Reporting Greenhouse Gas Emissions from Wetlands* International Symposium Wetlands 2006 Applying Scientific, Legal, and Management Tools for the Great Lakes and Beyond August 28-31, 2006 Grand Traverse Resort, Near Traverse City, Michigan`

Leckie D, D. Paradine, S Tinis, W Kurz and D Blain (2003) *Deforestation Mapping on a National Basis for Carbon Accounting within the Kyoto Protocol Context: An Approach for Canada*. World Forestry Congress, December 2003, Québec

## **DOMINIQUE BLAIN**

### **Formal Education**

**Ph.D. Forestry** University of Toronto (1996) Thesis topic: Soil factors affecting forest regeneration post slash and burn agriculture in Eastern Peru.

**MSc Biogeography** York University, Toronto (1989) Thesis topic: Recruitment of three common tree species in a remnant forest of the State of Veracruz, Mexico.