

Jean-Pascal van Ypersele

IPCC Vice-Chair, Candidate for the position of IPCC Chair

Name and first name: van Ypersele, Jean-Pascal
Date and place of birth: Brussels (Belgium), 14 April 1957
Working languages: French, English, Dutch, some Italian
Current position/function: Vice-Chair (2008-2015) of the Intergovernmental Panel on Climate Change (IPCC)
 Full Professor at Université catholique de Louvain (UCL), Belgium

MAIN PROFESSIONAL ACTIVITIES

- Research and/or teaching about climate science and sustainable development at US National Center for Atmospheric Research (1984-1986), Université de Liège (1987-1994) and Université catholique de Louvain (since 1987, see www.climate.be/vanyp & <https://www.linkedin.com/in/jpvanyp>)
- Intergovernmental Panel on Climate Change (IPCC): Belgian delegate (1995-1997), Author (1998-2001), Bureau Member and Working Group II Vice-chair (2002-2008), Vice-Chair (since 2008)

EDUCATIONAL BACKGROUND

- Degree in physical sciences, Université catholique de Louvain, 1980
- Master in physical sciences, Université catholique de Louvain, 1982
- Ph. D. in Physics, Université catholique de Louvain and NCAR (National Center for Atmospheric Research, Boulder, Colorado, USA), 1986

RESEARCH INTERESTS

Modelling climate change at global and regional scale, polar regions, coupling of economic models and climate models, interactions between climate and human activities, adaptation and mitigation, sustainable development, population-environment relationships and development.

MAIN AWARDS AND HONOURS

- Energy and Environment Award from the International Polar Foundation (2006)
- The Nobel Peace Prize was awarded to the IPCC (and Al Gore) (2007)
- Francqui Chair at the Université libre de Bruxelles (2008) and K.U. Leuven – H.U. Brussel (2011)
- Member of the Royal Academy of Belgium (2009)
- Honorary Member of the Club of Rome (EU Chapter)(2010)
- Commandeur du Mérite wallon (2011), Grand Officier de l'Ordre de la Couronne (2014)

OTHER MAIN ACTIVITIES IN THE FIELD RELEVANT TO THE MANDATE OF IPCC

- Co-Chair of several contact groups under UNFCCC (2001-2007), such as those leading to the adoption of the “New Delhi programme of international work on Article 6” (education, training, awareness, participation and public access to information, international cooperation in these matters) in 2002, and to a COP decision on how to take into account the 4th IPCC report in the climate negotiations (COP13, 2007).

- Member of numerous national or international advisory committees for governments, the European Commission, private companies (Electrabel, GDF/Suez, Climact, BNP/Paribas) and public institutions (Météo-France, Belgian Ministries, Dutch climate research programme)
- Organiser of many large-scale national and international scientific meetings, from the International Course on Climate and Desertification in 1983 to the Stephen Schneider Symposium: Climate Change: from Science to Policy (2011, see http://stephenschneider.stanford.edu/Symposium/SHS_symposium.html) or the Interdisciplinary Symposium on Sustainable Development (2013, see <http://old.congrestransitiondurable.org/en/>)
- Chair of the "Energy and climate" Working Group of the Belgian Federal Council for Sustainable Development (since 1998, see <http://www.frdo-cfdd.be/en>)

LIST OF MAIN PUBLICATIONS IN THE FIELD

▪ **Selected Books (author, co-author, or editor)**

Core Writing Team [M. R. Allen, V. R. Barros, J. Broome, W. Cramer, R. Christ, J. A. Church [...] Jean-Pascal van Ypersele], R. K. Pachauri and Leo Meyer. *Climate Change 2014, Synthesis Report*. Intergovernmental Panel on Climate Change, Geneva, Switzerland, 132 pp.

http://www.ipcc.ch/pdf/assessment-report/ar5/syr/SYR_AR5_LONGERREPORT_Corr2.pdf

van Ypersele, J.P. et M. Hudon (sous la direction de), 2013: *Actes du 1er Congrès interdisciplinaire du développement durable. Quelle transition pour nos sociétés?*, 31/01 et 01/02/2013 (6 volumes), Service Public de Wallonie, Namur. <http://old.congrestransitiondurable.org/congres/articles/>

van Ypersele, J.P. 2008: *Climate change and the Belgian development cooperation policy: challenges and opportunities*. FPS Foreign Affairs, Foreign Trade and Development Cooperation and Université catholique de Louvain, June 2008, Brussels, 67 pp.

http://diplomatie.belgium.be/en/binaries/report_climat_change_tcm312-67482.pdf

Le Treut, H., J.P. van Ypersele, S. Hallegatte et J.C. Hourcade (ed.), 2004. *Science du changement climatique – Acquis et controverses*. Claire Weill (éditrice). Institut du Développement Durable et des Relations Internationales (IDDRI), Paris, 105 pp.

▪ **Selected journal articles**

Van Weverberg, K.; Goudenhoofdt, E.; Blahak, U.; Brisson, E.; Demuzere, M.; Marbaix, P.; van Ypersele, J-P., 2014: *Comparison of one-moment and two-moment bulk microphysics for high-resolution climate simulations of intense precipitation*. Atmos. Research, Vol. 147-148, p. 145-161.

Bréchet, T.; Eyckmans, J.; Gerard, F.; Marbaix, P.; Tulkens, H.; van Ypersele, J-P., 2010: *The impact of the unilateral EU commitment on the stability of international climate agreements*. Climate Policy, Vol. 10, no. 2, p. 148-166.

Smith, J.; Schneider, S.; Oppenheimer, M.; Yohe, G.; Hare, W.; Mastrandrea, M.; Patwardhan, A.; Burton, I.; Corfee-Morlot, J.; Magadza, C.; Fuessel, H-M.; Pittock, A.; Rahman, A.; Suarez, A.; van Ypersele, J-P., 2009: *Assessing dangerous climate change through an update of the Intergovernmental Panel on Climate Change (IPCC) "reasons for concern"*. Proc. Natl. Acad. Sci. USA., Vol. 106, no. 11, p. 4133-4137.

D'Haeseleer, W.; Gusbin, D.; Devogelaer, D.; Klees, P.; van Ypersele, J-P., 2009: *PRIMES scenario analysis towards 2030 for Belgium*. European Review of Energy Markets, Energy Policy Studies, Vol. 3, no. 1, p. 191-260.

- Vanvyve, E.; Hall, N.; Messenger, C.; Leroux, S.; van Ypersele, J-P., 2008: *Internal variability in a regional climate model over West Africa*. *Clim. Dyn.*, Vol. 30, no. 2-3, p. 191-202.
- Fettweis, X.; van Ypersele, J-P.; Gallee, H.; Lefebvre, F.; Lefebvre, W., 2007: *The 1979-2005 Greenland ice sheet melt extent from passive microwave data using an improved version of the melt retrieval XPGR algorithm*. *Geophys. Res. Lett.*, Vol. 34, no. 5 p.
- van Ypersele, J-P., 2006: *L'injustice fondamentale des changements climatiques*. *Alternatives Sud*, Vol. 13, no. 2, p. 7-20. (also available in Spanish and Italian, see <http://www.cetri.be/spip.php?article3566&lang=fr>)
- Fettweis, X.; Gallee, H.; Lefebvre, F.; van Ypersele, J-P., 2006: *The 1988-2003 Greenland ice sheet melt extent using passive microwave satellite data and a regional climate model*. *Clim. Dyn.*, Vol. 27, no. 5, p. 531-541.
- Bertrand, C.; van Ypersele, J-P.; Berger, A., 2002: *Are natural climate forcings able to counteract the projected anthropogenic global warming?*. *Clim. Change*, Vol. 55, no. 4, p. 413-427.
- Obersteiner, M.; Azar, C.; Kauppi, P.; Mollersten, K.; Moreira, J.; Nilsson, S.; Read, P.; Riahi, K.; Schlamadinger, B.; Yamagata, Y.; Yan, J.; van Ypersele, J-P., 2001: *Managing climate risk*. *Science*, Vol. 294, no. 5543, p. 786-787.
- Grégoire, J-F.; van Ypersele, J-P.; Bartiaux, F., 2000: *Nous empruntons la Terre aux enfants d'aujourd'hui et de demain*. *Lumen Vitae*, Vol. 55, no. 1, p. 67-80.
- Bertrand, C.; van Ypersele, J-P., 1999: *Potential role of solar variability as an agent for climate change*. *Clim. Change*, Vol. 43, no. 2, p. 387-411.
- Bertrand, C.; van Ypersele, J-P.; Berger, A., 1999: *Volcanic and solar impacts on climate since 1700*. *Clim. Dyn.*, Vol. 15, no. 5, p. 355-367.
- Gallée, H.; van Ypersele, J-P.; Fichefet, T.; Marsiat, I.; Tricot, C.; Berger, A., 1992: *Simulation of the Last Glacial Cycle By a Coupled, Sectorially Averaged Climate-ice Sheet Model .2. Response To Insolation and Co2 Variations*. *J. Geophys. Res.-Atmos.*, Vol. 97, no. D14, p. 15713-15740.
- Gallée, H.; van Ypersele, J-P.; Fichefet, T.; Tricot, C.; Berger, A., 1991: *Simulation of the Last Glacial Cycle By a Coupled, Sectorially Averaged Climate-ice Sheet Model .1. the Climate Model*. *J. Geophys. Res.-Atmos.*, Vol. 96, no. D7, p. 13139-13161.
- van Ypersele, J-P.; Verstraete, M., 1986: *Climate and Desertification - Editorial*. In van Ypersele, J.P. & M. Verstraete (eds), *Climate and Desertification Special Issue*, *Clim. Change*, Vol. 9, no. 1-2, p. 1-4.

▪ Selected Book chapters

- van Ypersele, J-P., 2008: *The fundamental injustice of climate change*, in *Social Developments in the European Union 2007*, edited by Degryse, C. and Pochet, P., ETUI and Observatoire Social Européen, Brussels, ISBN 978-2-87452-122-5
- Bartiaux, F.; van Ypersele, J-P., 2006: *The Relationships Between Population and Environment*, in *Demography: Analysis and Synthesis. A Treatise in Population Studies*, edited by G. Caselli, J. Vallin & G. Wunsch, Academic Press, p. 383-396.
- Parkash, C.; Tulkens, H.; van Ypersele, J-P.; Willems, S., 2002: *The Kyoto Protocol: an economic and game-theoretic interpretation*, in *Economic Theory for the Environment. Essays in Honour of Karl-Göran Mäler.*, edited by B. Kriström, P. Dasgupta and K-G. Löfgren, Edward Elgar, p. 98-117.
- Bartiaux, F.; van Ypersele, J-P.; Robins, N., 1998: *Climate change: weighing up consumption and population*, in *Exploding the Population Myth: Consumption Versus Population, which is the Climate Bomb ?*, edited by A. Atiq Rahman, N. Robins and A. Roncerel, University press, Dhaka, p. 83-90.