

# Peter Huybers

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## EDUCATION

Massachusetts Institute of Technology, Climate Physics and Chemistry, Ph.D. (2004).

United States Military Academy at West Point, Physics, B.S. (1996).

## APPOINTMENTS

*Gilbert Butler Professor of Earth and Planetary Sciences and of Environmental Science and Engineering*, Harvard University (2026-),

*Faculty Dean*, Kirkland House (2025-),

*Chair*, Department of Earth and Planetary Sciences (2023-),

*Professor*, Environmental Science and Engineering, Harvard John A. Paulson School of Engineering and Applied Sciences (2014-2026),

*Professor*, Department of Earth and Planetary Sciences (2007-2026),

*Environmental Fellow*, Department of Earth and Planetary Sciences (2006-2007),

*NOAA Postdoctoral Fellow in Climate and Global Change*, Geology and Geophysics Department, Woods Hole Oceanographic Institution (2004-2006),

*Research Assistant*, Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology (1999-2004),

*U.S. Army*, Germany and Bosnia (1996-1998); New Orleans, LA (1998-1999); Cambridge, MA (1999-2003).

## AWARDS AND HONORS

Alpha Iota Prize for Excellence in Teaching (2022), Leshner Leadership Institute Public Engagement Fellow (2016), Jefferson Science Fellow (2012), MacArthur ‘Genius’ Fellow (2009), Packard Fellow for Science and Engineering (2009), AGU James B. Macelwane Medal (2009), MIT Carl-Gustaf Rossby Prize (2004), National Defense Science and Engineering Graduate Fellow (2001).

## UNIVERSITY SERVICE

*Leadership and committees*: member Salata Steering and Research Committees (2023-), Co-Director, Harvard University Center for the Environment (2016-2018); Board member of the Center for African Studies (2017-), Science of the Human Past Steering Committee (2011-), Environmental Science and Public Policy Committee (2009-), and Harvard Oceanography Committee (2007-).

*PhD advisor*: Greta Berendes, Klara Kuemmerle, Xiang Liu, Alexandra Berry, Teddy Amdur (PhD 2023), Aleyda Trevino (PhD 2023), Parker Liautaud (PhD 2021), Duo Chan (PhD 2021), Marena Lin (PhD 2018), Cristian Proistosescu (PhD 2016), Karen McKinnon (PhD 2015), Ethan Butler (PhD 2015), Andrew Rhines (PhD 2015), Eddie Haam (PhD 2011), and Martin Tingley (PhD 2009).

*Postgraduate sponsor*: Caro Park (2024-), Mike Foley (2024-), Anna Lea Albright (2023-), Lucas Vargas Zeppetello (2022-2023), Helene Benveniste (2021-2024), Jon Proctor (2019-2023), Angela Rigden (2018-2022), Nathan Mueller (2013-2016), Alexander Stine (2010-2012), Thomas Laepple (2011), and Geoffrey Gebbie (2008-2010).

## **OTHER PROFESSIONAL SERVICE**

NSF Environmental Research Advisory Board (2018-2021), Editor Journal of Climate (2015-2018), Senior Science Advisor in the White House's Office of Science and Technology Policy (2013-2014); Jefferson Science Fellow in the U.S. Department of State (2012).

## **SELECTED RESEARCH SUPPORT**

Philanthropic gift, Project Director, Sea-Level Investigation and Management (SLIM), Harvard University Center for the Environment, 2026–, \$5,000,000.

Minderoo Foundation, Co-PI; originated and brokered a multi-investigator Harvard research partnership on extreme heat and humidity, 2025–2027, \$1,300,000 in direct research support (Huybers component: \$170,393).

Amazon Web Services / Harvard Data Science Initiative, PI (with Missy Holbrook), Climate change and volatility in food supply: historical contributions and future implications for food insecurity, 2023–2027, \$976,208.

NSF, PI, An analysis of 150 years of sea surface and subsurface observations to map whole-ocean temperature and detect circulation change, 2021–2024, \$337,000.

NSF, PI, P2C2: Does Liebig's Law Allow for Capturing More Signal from the Forest, 2019–2022, \$266,000.

Harvard Global Institute, PI, China's Health Weather: Understanding and Predicting Connections Between Climate, Extreme Weather, Air Quality, and Health, 2016–2021, \$1,600,000.

NSF, Co-PI, FESD Type I: VOICE—Volcano, Ocean, Ice, and Carbon Experiments, 2013–2020, \$3,607,000.

## **PUBLICATIONS**

A. L. Albright, R. Berkoh-Oforiwaa, and P. Huybers, Rainfall extremes drive cocoa yield losses across the tropics. *Proceedings of the National Academy of Sciences*, in press, 2026.

M. Dharmapurikar and P. Huybers, Irrigation and historical reductions in the interannual variability of Mid-western maize yield. *Environmental Research Letters*, 2026.

C. Park, J. Proctor, and P. Huybers, Divergent estimates of agricultural climate sensitivity from survey and satellite yield data. *Environmental Research Letters*, 21, 154044, 2026.

D. Chan et al., Choosing the right sea surface temperature datasets: benchmarking and guidance for climate applications. *Bulletin of the American Meteorological Society*, 107, 2026.

C. Fried and P. Huybers, Dichotomized Area Reconstruction of Mean Anomalies: a scale-invariant approach to paleoclimate reconstruction. *Journal of Climate*, 39, 2026.

I. Bolliger et al., Quantifying asymmetries in the societal impact of mass loss from the Antarctic and Greenland Ice Sheets. *Earth's Future*, 14(5), e2024EF005914, 2026.

D. Chan et al., DCENT-I: a globally infilled extension of the Dynamically Consistent ENsemble of Temperature dataset. *Geoscience Data Journal*, 13(2), e70054, 2026.

E. Vos, P. Huybers, and E. Tziperman, Climate change alters teleconnections. *Geophysical Research Letters*, 53, e2025GL119307, 2026.

R. D. Meade et al., Responding to rising heat in workplaces and homes of low income workers. *BMJ*, 391, e086218, 2025.

H. Benveniste, P. Huybers, and J. Proctor, Global climate migration is a story of who and not just how many. *Nature Communications*, 16(1), 7752, 2025.

J. Proctor, L. Vargas Zeppetello, D. Chan, and P. Huybers, Climate change increases the interannual variance of summer crop yields globally through changes in temperature and water supply. *Science Advances*, 11(36), eady3575, 2025.

- D. Chan, G. Gebbie, and P. Huybers, Re-evaluating historical sea surface temperature datasets: insights from the diurnal cycle, coral proxy data, and radiative forcing. *Geophysical Research Letters*, 52(13), e2025GL116615, 2025.
- L. Vargas Zeppetello, J. Proctor, and P. Huybers, Is water stress the root cause of the observed nonlinear relationship between yield losses and temperature? *AGU Advances*, 6(4), e2025AV001704, 2025.
- P. Sherman, P. Huybers, and E. Tziperman, On the attribution of weather events to climate change using a fit to extreme value distributions. *Journal of Climate*, 38(12), 2025.
- K. Davis et al., HarvestStat: a global effort towards open and standardized sub-national agricultural data. *Environmental Research Letters*, 20(5), 052001, 2025.
- T. Amdur and P. Huybers, Negative trend in total solar irradiance over the satellite era. *Proceedings of the National Academy of Sciences*, 122(11), e2417155122, 2025.
- C. Golden et al., Climate-smart public health for global health resilience. *The Lancet Planetary Health*, 9(8), 2025.
- L. Vargas Zeppetello, A. Trevino, and P. Huybers, Disentangling contributions to past and future trends in US surface soil moisture. *Nature Water*, 2(2), 2024.
- A. Rigden, C. Golden, D. Chan, and P. Huybers, Climate change linked to drought in Southern Madagascar. *npj Climate and Atmospheric Science*, 7(1), 2024.
- C. Fried and P. Huybers, A simple relationship between the magnitude and spatial extent of global surface temperature anomalies. *Geophysical Research Letters*, 51(4), 2024.
- R. Stout, T. Pico, P. Huybers, J. Mitrovica, and J. Auermann, Imprint of relative sea level histories on Last Interglacial coral preservation. *Geophysical Journal International*, 236(3), 2024.
- D. Chan, G. Gebbie, and P. Huybers, An improved ensemble of land surface air temperatures since 1880 using revised pair-wise homogenization algorithms accounting for autocorrelation. *Journal of Climate*, 37(7), 2024.
- K. McKinnon and P. Huybers, Inferring Northern Hemisphere continental warming patterns from the amplitude and phase of the seasonal cycle in surface temperature. *Journal of Climate*, 37(2), 2024.
- C. Hagen, J. Creveling, and P. Huybers, Align: a user-friendly app for numerical stratigraphic correlation. *GSA Today*, 34(2), 2024.
- L. Vargas Zeppetello, K. McColl, J. Bernau, B. Bowen, L. Tang, N. Holbrook, P. Gentile, and P. Huybers, Apparent surface conductance sensitivity to vapour pressure deficit in the absence of plants. *Nature Water*, 1(11), 2023.
- D. Chan, G. Gebbie, and P. Huybers, Global and regional discrepancies between early-twentieth-century coastal air and sea surface temperature detected by a coupled energy-balance analysis. *Journal of Climate*, 36(7), 2023.
- A. Albright and P. Huybers, Paintings by Turner and Monet depict trends in 19th century air pollution. *Proceedings of the National Academy of Sciences*, 120(6), 2023.
- T. Amdur and P. Huybers, A Bayesian model for inferring total solar irradiance from proxies and direct observations: application to the ACRIM Gap. *Journal of Geophysical Research: Atmospheres*, 128(15), 2023.
- P. Liautaud and P. Huybers, Uniformitarian prediction of early-Pleistocene atmospheric CO<sub>2</sub>. *Geophysical Research Letters*, 49(20), 2022.
- S. Myers, J. Fanzo, K. Wiebe, P. Huybers, and M. Smith, Current guidance underestimates risk of global environmental change to food security. *BMJ*, 2022.
- J. Proctor, A. Rigden, D. Chan, and P. Huybers, More accurate specification of water supply shows its importance for global crop production. *Nature Food*, 3(9), 2022.

- P. Huybers, P. Liautaud, C. Proistosescu, B. Boulahanis, S. Carbotte, R. Katz, and C. Langmuir, Influence of late Pleistocene sea-level variations on mid-ocean ridge spacing: faulting simulations and a global analysis of bathymetry. *Proceedings of the National Academy of Sciences*, 119(28), 2022.
- A. Rigden, C. Golden, and P. Huybers, Retrospective predictions of rice and other crop production in Madagascar using soil moisture and an NDVI-based calendar from 2010–2017. *Remote Sensing*, 14(5), 2022.
- D. Chan, A. Rigden, J. Proctor, and P. Huybers, Differences in radiative forcing, not sensitivity, explain differences in summertime land temperature variance change between CMIP5 and CMIP6. *Earth's Future*, 10(2), 2022.
- P. Huybers, Putting the significance of spectral peaks on the level: implications for the 1470-yr peak in Greenland  $\delta^{18}\text{O}$ . *Journal of Climate*, 35(13), 4147–4155, 2022.
- J. Fanzo et al., Sustainable food systems and nutrition in the 21st century: a report from the 22nd annual Harvard Nutrition Obesity Symposium. *The American Journal of Clinical Nutrition*, 115(1), 2022.
- P. Liautaud and P. Huybers, Increased sea level sensitivity to  $\text{CO}_2$  forcing across the Middle Pleistocene Transition from ice-albedo and ice-volume nonlinearities. *Journal of Climate*, 34(24), 2021.
- A. Albright, C. Proistosescu, and P. Huybers, Origins of a relatively tight lower bound on anthropogenic aerosol radiative forcing from Bayesian analysis of historical observations. *Journal of Climate*, 34(21), 2021.
- D. Chan, G. Vecchi, W. Yang, and P. Huybers, Improved simulation of 19th- and 20th-century North Atlantic hurricane frequency after correcting historical sea surface temperatures. *Science Advances*, 7(26), 2021.
- A. Trevino, A. Stine, and P. Huybers, Regional nonlinear relationships across the United States between drought and tree-ring width variability from a neural network. *Geophysical Research Letters*, 48(14), 2021.
- T. Carleton, J. Cornet, P. Huybers, K. Meng, and J. Proctor, Ultraviolet radiation decreases COVID-19 growth rates: global causal estimates and seasonal implications. *Proceedings of the National Academy of Sciences*, 118(1), 2021.
- N. Kogan et al., An early warning approach to monitor COVID-19 activity with multiple digital traces in near real time. *Science Advances*, 7(10), eabd6989, 2021.
- T. Amdur, A. Stine, and P. Huybers, Global surface temperature response to 11-year solar cycle forcing consistent with general circulation model results. *Journal of Climate*, 34(8), 2893–2903, 2021.
- D. Chan and P. Huybers, Correcting observational biases in sea-surface temperature observations removes anomalous warmth during World War II. *Journal of Climate*, 34(11), 4585–4602, 2021.
- L. Sloat, M. Lin, E. Butler, D. Johnson, N. Holbrook, P. Huybers, J. Lee, and N. Mueller, Evaluating the benefits of chlorophyll fluorescence for in-season crop productivity forecasting. *Remote Sensing of Environment*, 260, 112478, 2021.
- C. Dai, D. Chan, P. Huybers, and N. Pillai, Late 19th century navigational uncertainties and their influence on sea surface temperature estimates. *The Annals of Applied Statistics*, 15(1), pp. 22–40, 2021.
- U. Büntgen et al., The influence of decision-making in tree ring-based climate reconstructions. *Nature Communications*, 12(1), 2021.
- A. Rigden, R. Powell, A. Trevino, K. McColl, and P. Huybers, Microwave retrievals of soil moisture improve grassland wildfire predictions. *Geophysical Research Letters*, e2020GL091410, 2020.
- A. Rigden, N. Mueller, N. Holbrook, N. Pillai, and P. Huybers, Combined influence of soil moisture and atmospheric evaporative demand is important for accurately predicting US maize yields. *Nature Food*, 1(2), 127–133, 2020.
- D. Chan and P. Huybers, Systematic differences in bucket sea surface temperatures caused by misclassification of engine room intake measurements. *Journal of Climate*, 33(18), 7735–7753, 2020.
- D. Chan, A. Cobb, L. Vargas Zeppetello, D. Battisti, and P. Huybers, Summertime temperature variability increases with local warming in midlatitude regions. *Geophysical Research Letters*, 47(13), e2020GL087624, 2020.

- A. Rigden, V. Ongoma, and P. Huybers, Kenyan tea is made with heat and water: how will climate change influence its yield? *Environmental Research Letters*, 15(4), 044003, 2020.
- B. Boulahanis, S. Carbotte, P. Huybers, M. Nedimovic, O. Aghaei, J. Canales, and C. Langmuir, Do sea level variations influence mid-ocean ridge magma supply? A test using crustal thickness and bathymetry data from the East Pacific Rise. *Earth and Planetary Science Letters*, 535, 116121, 2020.
- P. Liautaud, D. Hodell, and P. Huybers, Detection of significant climatic precession variability in early Pleistocene glacial cycles. *Earth and Planetary Science Letters*, 536, 116137, 2020.
- J. Middleton et al., The spatial footprint of hydrothermal scavenging on  $^{230}\text{Th}_{\text{XS}}$ -derived mass accumulation rates. *Geochimica et Cosmochimica Acta*, 272, 218–234, 2020.
- D. Chan, E. Kent, D. Berry, and P. Huybers, Correcting datasets leads to more homogeneous early-twentieth-century sea surface warming. *Nature*, 571(7765), 393–398, 2019.
- D. Chan and P. Huybers, Systematic differences in bucket sea surface temperature measurements amongst nations identified using a linear-mixed-effect method. *Journal of Climate*, 32, 2569–2589, 2019.
- M. Lin and P. Huybers, If rain falls in India and no one reports it, are historical trends in monsoon extremes biased? *Geophysical Research Letters*, 46(3), 1681–1689, 2019.
- G. Gebbie and P. Huybers, The Little Ice Age and 20th-century deep Pacific cooling. *Science*, 363(6422), 70–74, 2019.
- C. Hay, J. Creveling, C. Hagen, A. Maloof, and P. Huybers, A library of early Cambrian chemostratigraphic correlations from a reproducible algorithm. *Geology*, 47(5), 457–460, 2019.
- C. Piecuch, P. Huybers, C. Hay, A. Kemp, C. Little, J. Mitrovica, R. Ponte, and M. Tingley, Origin of spatial variation in US East Coast sea-level trends during 1900–2017. *Nature*, 564(7736), 400–404, 2018.
- E. Butler, N. Mueller, and P. Huybers, Peculiarly pleasant weather for US maize. *Proceedings of the National Academy of Sciences*, 115(47), 11935–11940, 2018.
- J. Middleton, S. Mukhopadhyay, C. Langmuir, J. McManus, and P. Huybers, Millennial-scale variations in dustiness recorded in Mid-Atlantic sediments from 0 to 70 ka. *Earth and Planetary Science Letters*, 482, 12–22, 2018.
- C. Proistosescu and P. Huybers, Slow climate mode reconciles historical and model-based estimates of climate sensitivity. *Science Advances*, 3(7), e1602821, 2017.
- A. Rhines, K. McKinnon, M. Tingley, and P. Huybers, Seasonally resolved distributional trends of North American temperatures show contraction of winter variability. *Journal of Climate*, 30(3), 1139–1157, 2017.
- N. Mueller, A. Rhines, E. Butler, D. Ray, S. Siebert, N. M. Holbrook, and P. Huybers, Global relationships between cropland intensification and summer temperature extremes over the last 50 years. *Journal of Climate*, 30(18), 7505–7528, 2017.
- S. Myers, M. Smith, S. Guth, C. Golden, B. Vaitla, N. Mueller, A. Dangour, and P. Huybers, Climate change and global food systems: potential impacts on food security and undernutrition. *Annual Review of Public Health*, 38, 259–277, 2017.
- J. Austermann, J. Mitrovica, P. Huybers, and A. Rovere, Detection of a dynamic topography signal in last interglacial sea-level records. *Science Advances*, 3(7), e1700457, 2017.
- D. Ferguson, Y. Li, C. Langmuir, K. C. Costa, J. McManus, P. Huybers, and S. Carbotte, A 65 k.y. time series from sediment-hosted glasses reveals rapid transitions in ocean ridge magmas. *Geology*, 45(6), 491–494, 2017.
- P. Huybers and C. Langmuir, Delayed  $\text{CO}_2$  emissions from mid-ocean ridge volcanism as a possible cause of late-Pleistocene glacial cycles. *Earth and Planetary Science Letters*, 457, 238–249, 2017.
- A. Stine and P. Huybers, Implications of Liebig’s law of the minimum for tree-ring reconstructions of climate. *Environmental Research Letters*, 12(11), 2017.

- C. Piecuch, P. Huybers, and M. Tingley, Comparison of full and empirical Bayes approaches for inferring sea-level changes from tide-gauge data. *Journal of Geophysical Research: Oceans*, 122(3), 2243–2258, 2017.
- K. Costa, J. McManus, J. Middleton, C. Langmuir, P. Huybers, G. Winckler, and S. Mukhopadhyay, Hydrothermal deposition on the Juan de Fuca Ridge over multiple glacial–interglacial cycles. *Earth and Planetary Science Letters*, 479, 120–132, 2017.
- A. Daradich, P. Huybers, J. Mitrovica, N. Chan, and J. Auermann, The influence of true polar wander on glacial inception in North America. *Earth and Planetary Science Letters*, 461, 96–104, 2017.
- K. McKinnon and P. Huybers, Seasonal constraints on inferred planetary heat content. *Geophysical Research Letters*, 43(10), 955–964, 2016.
- K. Costa, J. McManus, B. Boulanis, S. Carbotte, G. Winckler, P. Huybers, and C. Langmuir, Sedimentation, stratigraphy and physical properties of sediment on the Juan de Fuca Ridge. *Marine Geology*, 380, 163–173, 2016.
- K. McKinnon, A. Rhines, M. Tingley, and P. Huybers, The changing shape of Northern Hemisphere summer temperature distributions. *Journal of Geophysical Research: Atmospheres*, 121(15), 8849–8868, 2016.
- M. Lin and P. Huybers, Revisiting whether recent surface temperature trends agree with the CMIP5 ensemble. *Journal of Climate*, 29(24), 8673–8687, 2016.
- C. Proistosescu, A. Rhines, and P. Huybers, Identification and interpretation of nonnormality in atmospheric time series. *Geophysical Research Letters*, 43, 2016.
- P. Huybers, C. Langmuir, R. Katz, D. Ferguson, C. Proistosescu, and S. Carbotte, Comment on ‘Sensitivity of seafloor bathymetry to climate-driven fluctuations in mid-ocean ridge magma supply’. *Science*, 352(6292), 2016.
- C. Hay, J. Mitrovica, E. Morrow, R. Kopp, P. Huybers, and R. Alley, Earth rotation changes since 500 CE driven by ice mass variations. *Earth and Planetary Science Letters*, 448, 115–121, 2016.
- K. McKinnon, A. Rhines, M. Tingley, and P. Huybers, Long-lead predictions of eastern United States hot days from Pacific sea surface temperatures. *Nature Geoscience*, 9, 389–394, 2016.
- N. Mueller, E. Butler, K. McKinnon, A. Rhines, M. Tingley, N. Holbrook, and P. Huybers, Cooling of US Midwest summer temperature extremes from cropland intensification. *Nature Climate Change*, 6(3), 317–322, 2016.
- A. Rhines, M. Tingley, K. McKinnon, and P. Huybers, Decoding the precision of historical temperature observations. *Quarterly Journal of the Royal Meteorological Society*, 141(693), 2923–2933, 2015.
- J. Crowley, R. Katz, P. Huybers, C. Langmuir, and S. Park, Glacial cycles drive variations in the production of oceanic crust. *Science*, 347(6227), 1237–1240, 2015.
- M. Tingley and P. Huybers, Heterogeneous warming of Northern Hemisphere surface temperatures over the last 1200 years. *Journal of Geophysical Research: Atmospheres*, 120(9), 4040–4056, 2015.
- E. Butler and P. Huybers, Variations in the sensitivity of US maize yield to extreme temperatures by region and growth phase. *Environmental Research Letters*, 10(3), 034009, 2015.
- T. Laepple and P. Huybers, Ocean surface temperature variability: large model-data differences at decadal and longer periods. *Proceedings of the National Academy of Sciences*, 111(47), 16682–16687, 2014.
- M. Tingley, A. Stine, and P. Huybers, Temperature reconstructions from tree-ring densities overestimate volcanic cooling. *Geophysical Research Letters*, 41(22), 7838–7845, 2014.
- A. Rhines and P. Huybers, Sea ice and dynamical controls on pre-industrial and Last Glacial Maximum accumulation in central Greenland. *Journal of Climate*, 27(23), 8902–8917, 2014.
- P. Huybers, K. McKinnon, A. Rhines, and M. Tingley, U.S. daily temperatures: the meaning of extremes in the context of non-normality. *Journal of Climate*, 27, 7368–7384, 2014.
- K. McKinnon and P. Huybers, On using the seasonal cycle to interpret extratropical temperature changes since 1950. *Geophysical Research Letters*, 41, 4676–4684, 2014.

- T. Laepple and P. Huybers, Global and regional variability in marine surface temperatures. *Geophysical Research Letters*, 41, 2528–2534, 2014.
- A. Stine and P. Huybers, Arctic tree rings as recorders of variations in light availability. *Nature Communications*, 5, 3836, 2014.
- J. Austermann, B. Kaye, J. Mitrovica, and P. Huybers, A statistical analysis of the correlation between large igneous provinces and lower mantle seismic structure. *Geophysical Journal International*, 197, 1–9, 2014.
- M. Sori, T. Perron, P. Huybers, and O. Aharonson, A procedure for testing the significance of orbital tuning of the Martian polar layered deposits. *Icarus*, 235, 136–146, 2014.
- S. Myers et al., Increasing CO<sub>2</sub> threatens human nutrition. *Nature*, 510, 139–142, 2014.
- M. Tingley and P. Huybers, Recent high northern latitude temperature extremes unprecedented in past 600 years. *Nature*, 496, 201–205, 2013.
- A. Rhines and P. Huybers, Frequent summer temperature extremes reflect changes in the mean, not the variance. *Proceedings of the National Academy of Sciences*, 110, 547–548, 2013. (comment)
- T. Laepple and P. Huybers, Reconciling discrepancies between U<sub>K</sub>37 and Mg/Ca reconstructions of Holocene marine temperature variability. *Earth and Planetary Science Letters*, 375, 418–429, 2013.
- K. McKinnon, A. Stine, and P. Huybers, The spatial structure of the annual cycle in surface temperature: amplitude, phase, and Lagrangian history. *Journal of Climate*, 26, 7852–7862, 2013.
- N. Kachouie, P. Huybers, and A. Schwartzman, Localization of mountain glacier termini in Landsat multi-spectral images. *Pattern Recognition Letters*, 34(1), 94–106, 2013.
- S. Kutterolf, M. Jegen, J. X. Mitrovica, T. Kwasnitschka, A. Freundt, and P. Huybers, A detection of Milankovitch frequencies in global volcanic activity. *Geology*, 41(2), 227–230, 2013.
- E. Butler and P. Huybers, Adaptation of US maize to temperature variations. *Nature Climate Change*, 3, 68–72, 2013; and ‘Reply: US maize adaptability’. *Nature Climate Change*, 3, 691–692, 2013.
- E. Morrow, J. Mitrovica, A. Forte, P. Glisovic, and P. Huybers, An enigma in estimates of the Earth’s dynamic ellipticity. *Geophysical Journal International*, 191, 1129–1134, 2013.
- A. Stine and P. Huybers, Changes in the seasonal cycle of temperature and atmospheric circulation. *Journal of Climate*, 25, 7362–7380, 2012.
- E. Rohling et al., Making sense of paleoclimate sensitivity. *Nature*, 491, 683–691, 2012.
- M. Lin and P. Huybers, Reckoning wheat yield trends. *Environmental Research Letters*, 7, 1–6, 2012.
- M. McCormick and 11 co-authors, Climate change during and after the Roman Empire: reconstructing the past from scientific and historical evidence. *The Journal of Interdisciplinary History*, 43, 169–220, 2012.
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- C. Proistosescu, P. Huybers, and A. Maloof, To tune or not to tune: detecting orbital variability in Oligo-Miocene climate records. *Earth and Planetary Science Letters*, 325, 100–107, 2012.
- N. Gomez, D. Pollard, J. Mitrovica, P. Huybers, and P. Clark, Evolution of a coupled marine ice sheet—sea level model. *Journal of Geophysical Research*, 117, 1–9, 2012.
- P. Huybers, Combined obliquity and precession pacing of the late Pleistocene glacial cycles. *Nature*, 480, 229–232, 2011.
- A. Rhines and P. Huybers, Estimation of spectral power laws in time-uncertain series of data with application to the GISP2  $\delta^{18}\text{O}$  record. *Journal of Geophysical Research*, 116, D01103, 1–9, 2011.
- G. Gebbie and P. Huybers, How is the ocean filled? *Geophysical Research Letters*, 38, L06604, 1–5, 2011.

- P. Huybers and C. Wunsch, Paleo-physical oceanography with an emphasis on the Last Glacial Maximum. *Annual Review of Marine Science*, 3, 1–34, 2011.
- P. Huybers and O. Aharonson, Orbital tuning, eccentricity, and the frequency modulation of climatic precession. *Paleoceanography*, 25, PA4228, 1–9, 2010.
- N. Gomez, J. X. Mitrovica, P. Huybers, and P. U. Clark, Sea level as a stabilizing factor for marine ice-sheet grounding lines. *Nature Geoscience*, 3, 850–853, 2010.
- P. Huybers, Compensation between model feedbacks and curtailment of climate sensitivity. *Journal of Climate*, 23, 3009–3018, 2010.
- M. Tingley and P. Huybers, A Bayesian algorithm for reconstructing spatially arrayed temperatures. Part 1: development and applications to paleoclimate reconstruction problems. *Journal of Climate*, 23, 2759–2781, 2010.
- M. Tingley and P. Huybers, A Bayesian algorithm for reconstructing spatially arrayed temperatures. Part 2: behavior and comparison with the regularized expectation-maximization algorithm. *Journal of Climate*, 23, 2782–2800, 2010.
- E. Haam and P. Huybers, A test for the presence of covariance between time-uncertain series of data with application to the Dongge Cave speleothem and atmospheric radiocarbon records. *Paleoceanography*, 25, PA2209, 2010.
- G. Gebbie and P. Huybers, Total matrix intercomparison: a method for determining the geometry of water-mass pathways. *Journal of Physical Oceanography*, 40, 1710–1728, 2010.
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- P. Huybers and C. Langmuir, Feedback between deglaciation and volcanic emissions of CO<sub>2</sub>. *Earth and Planetary Science Letters*, 286(3–4), 479–491, 2009.
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