

1. Personal

Name: Wm. Richard Peltier

Citizenship: Canadian

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2. Degrees

B.Sc., Physics, 1967, University of British Columbia.
M.Sc., Physics, 1969, University of Toronto.
Ph.D., Physics, 1971, University of Toronto.
Thesis: "Thermal Stability of non-Boussinesq Configurations"
Supervisor: Professor C.O. Hines
D.Sc., honoris causa, 2007, University of Waterloo

2. Employment

present appointment - University Professor, 1993-present
date of appointment to the graduate school - 1973
date of tenure award - 1977

Lecturer, 1971-72, Department of Physics, University of Toronto
Visiting Fellow, 1972-73, CIRES, University of Colorado
Visiting Assistant Professor, 1973-74, Department of Physics, University of Toronto
Consultant, Summer 1974, CIRES-INSTAAR, University of Colorado
Assistant Professor, 1974-77, Department of Physics, University of Toronto
Consultant, Summer 1975, CIRES-INSTAAR, University of Colorado
Visiting Associate Professor, Spring 1976, Geophysics and Space Physics, U.C.L.A.
Associate Professor, 1977-79, Department of Physics, University of Toronto
Visiting Professor, Spring 1978, Geophysics and Space Physics, U.C.L.A.
Steacie Fellowship Leave, 1978-79, NCAR, Boulder, Colorado
Guggenheim Fellowship Leave, 1987-1988, DAMTP and Bullard Lab., Cambridge Univ, UK

Full Professor, 1979-1993, Department of Physics, University of Toronto

Sabbatical Leave, 2002-2003, Professeur Invité, Institute de Physique du Globe de Paris,
Université Paris VII

Professor Invité, Institute de Physique du Globe de Paris, Université Paris VII, Summer 2004

Principal Investigator, the Polar Climate Stability Network, 2005-2010

Adjunct Professor, Department of Earth Sciences, University of Waterloo, 2005-continuing.

Director, Centre for Global Change Science, University of Toronto, 2005-

Visiting Professor, Dept. of Earth Sciences and Bjerknes Center for Marine Research, University of
Bergen, Bergen, Norway, Summer 2006.

Scientific Director, SciNet facility for High Performance Computation, 2007-

3. Honours – including named lectures in bold

Alfred P. Sloan Foundation Fellowship, 1977-1979

E.W.R. Steacie Memorial Fellowship of NSERC, 1978-1980

Kirk Bryan Award of the Geological Society of America, 1980

Killam Senior Research Fellowship of the Canada Council, 1980-82

**L.G. Weeks Distinguished Lecturer, Department of Geology and Geophysics, University of
Wisconsin, Madison, 1985**

Fellow of the American Geophysical Union, 1986-

Fellow of the Royal Society of Canada, 1986-

John Simon Guggenheim Memorial Foundation Fellowship, 1986-1988

Fellow of Clare Hall, Cambridge University, U.K., 1988-

Cecil and Ida Green Fellow, UC San Diego, 1988 (declined in favour of Cambridge sabbatical)

**Lady Margaret Lecturer, and Norman Sosnow Distinguished Visiting Scholar, Christs
College, Cambridge, Fall Term 1988**

Senior Fellow of Massey College, U. Toronto, 1989-

Fellow of the American Meteorological Society, 1991-

Patterson Medal of the Atmospheric Environment Service of Canada (DOE), 1992

University Professor (highest rank held by ~25 faculty), University of Toronto, 1993-

IUGG Union Lecturer - Boulder, Colorado General Assembly, 1995

Distinguished Visiting Lecturer, Global Change Institute, Pennsylvania State Univ., 1995

Walter H. Elsasser Memorial Lecturer, John's Hopkins University, Baltimore, 1996

Benjamin Meeker Visiting Professor, Department of Mathematics, University of Bristol, UK, 1996

Presidents Lecture, IAMAS/IAPSO General Assembly, Melbourne, Australia, 1997

H. Burr Steinback Visiting Scholar, Woods Hole Oceanographic Institution, Summer 1997

Climate Center Visiting Scholar, LDEO, Columbia University, 1998

Sloan Foundation Lecturer, Woods Hole Oceanographic Institution, Woods Hole, MA, 1998

Distinguished Lecturer of the Canadian Geophysical Union, 1999-2000. (Gave a total of 20 lectures at Canadian Universities in the period October 1999 through March 2000)

R.F. Flint Lecturer, Yale University, New Haven, Connecticut, 2001

Science Watch listing as the fifth most highly cited Earth Scientist internationally in the decade 1991-2001 (based upon analysis of the Highly Cited project (Science Watch magazine, volume 12, no. 6, Nov.-Dec. 2001); this included analysis of all Earth science disciplines; geology, geophysics, atmospheric science, oceanography, etc.). This Article is included in this short cv.

IAMAS “Sushi Lecturer”, IUGG General Assembly, Sapporo, Japan, 2003

Elected as Foreign Member to Fellowship in the Norwegian Academy of Science and Letters, 2004

Bancroft Award of the Royal Society of Canada, 2004

J. Tuzo Wilson Medal of the Canadian Geophysical Union, 2004

The Vetlesen Prize of the G. Unger Vetlesen Foundation, 2004

Leiv Eriksson Fellowship of the National Research Council of Norway, 2006

Mirosław Romanowski Medal of the Royal Society of Canada, 2006

DSc, honoris causa, The University of Waterloo, 2007

Milutin Milankovic Medal of the European Geosciences Union, 2008

Milutin Milankovic Medal Lecture, EGU, Vienna, 2008

Proudman Lecture, Proudman Oceanographic Laboratory, Liverpool, September 2008

CAP Gold Medal for Achievements in Physics, 2009

4. Professional Affiliations

Canadian Association of Physicists

Canadian Geophysical Union - Past President

Canadian Meteorological and Oceanographic Society

Royal Astronomical Society - Fellow

Royal Meteorological Society - Fellow

European Geosciences Union

American Geophysical Union - Elected Fellow

American Meteorological Society - Elected Fellow



The Greatest Research on Earth

Atmospheric science and climatology stand out in a new survey of highly cited geosciences research over the last decade. To identify the most-cited geosciences institutions, researchers, and journals of the last 10 years, *Science Watch* turned to *Essential Science Indicators*[®] (ESI), an ISI/Thomson Scientific web-based evaluation tool and database. In the table on the following page, institutions are ranked, both by total citations (left column) and citations per paper (or impact, at right). Researchers also appear on the following page.

These rankings are based on papers published and cited in more than 300 ISI-indexed geosciences journals between 1991 and June of 2001.

Among institutions, none garnered as many citations as NASA, the National Aeronautics and Space Administration. The citation figure for NASA reflects all of the organization's component facilities,



including the Langley Research Center, the Johnson Space Center, the Ames Research Center, the Jet Propulsion Laboratory, etc. The decade's

most-cited paper by NASA-affiliated authors concerned the International Satellite Cloud Climatology Project, discussed in a 1991 paper from the *Bulletin of the American Meteorological Society* by W.B. Rossow—ranked in the adjoining table at #10 among geosciences authors for the decade—and R.A. Schiffer (see "ISCCP cloud data products," *Bull. Amer. Meteorol. Soc.*, 72[1]:2-20, 1991); this paper has been cited nearly 500 times [see the following page for table].

Ranking second in total citations is NOAA, the National Oceanic and Atmospheric Administration. The decade's most-cited NOAA paper appeared in the *Journal of Climate* in 1994 (see R.W. Reynolds, T.M. Smith, "Improved global sea-surface temperature analyses using optimum interpolation," *J. Climate*, 7[6]:929-48, 1994); this paper has been cited more than 450 times.



In the impact ranking, the decade's highest cites-per-paper score in geosciences was posted by the Max Planck Institute for Chemistry in Mainz, Germany. Not coincidentally, that institution is also the base of the most-cited author in this survey, Paul J. Crutzen, who gained worldwide fame when he shared the 1995 Nobel Prize in chemistry with Mario J. Molina and F. Sherwood Rowland for research on the depletion of atmospheric ozone by manmade aerosol pollutants. Crutzen's most-cited paper of the 1990s, with over 200

Most-Cited Journals in Geosciences, 1991-2001

(Ranked by citations to papers published and cited between 1991 and June 2001)

| Rank | Journal | Cites |
|------|-----------------------------------|--------|
| 1 | J. Geophys. Res.-Atmospheres | 80,415 |
| 2 | Geophysical Research Letters | 78,812 |
| 3 | J. Geophys. Res.-Solid Earth | 54,409 |
| 4 | Geochim. Cosmochim. Acta | 51,084 |
| 5 | J. Geophys. Res.-Oceans | 36,483 |
| 6 | Geology | 36,197 |
| 7 | Earth Planet. Sci. Letters | 34,783 |
| 8 | Journal of Climate | 32,508 |
| 9 | J. Atmospheric Sciences | 26,789 |
| 10 | Tectonophysics | 21,584 |
| 11 | Monthly Weather Review | 19,888 |
| 12 | Geophysical Journal International | 18,987 |
| 13 | J. Physical Oceanography | 17,899 |
| 14 | Atmospheric Environment | 16,778 |
| 15 | Chemical Geology | 16,108 |



citations, appeared in the *Journal of Geophysical Research-Atmospheres* in 1993; among his collaborators was lead author James M. Russell, who is ranked at #14 on the list of geoscientists (see J.M. Russell, *et al.*, "The halogen occultation experiment," *J. Geophys. Res.-Atmos.*, 98:10777-97, 1993).

SOURCE: ISI's
Essential Science Indicators,
1991-2001

The #2-ranked scientist on the list, Minze Stuiver, emeritus professor at the University of Washington, is coauthor of the decade's most-cited geosciences paper, on radiocarbon dating (see M. Stuiver, P.J. Reimer, "Extended C-14 database and revised CALIB 3.0 C-14 age calibration program," *Radiocarbon*, 35[1]215-30, 1993). This paper has logged more than 1,200 citations [see the following page for table].

As might be expected given NASA's strong showing in the institutional ranking, seven NASA-affiliated researchers appear on the list of highly cited scientists. One of them, Piers J. Sellers (#12), currently based at the Johnson Space Center, will have the rare opportunity to make a firsthand observation of the earth's climate and atmosphere from above; he was selected for astronaut training in 1996 and is scheduled to make his first shuttle flight in 2002.

Among nations, the United States tallied the greatest number of papers and citations in geosciences during the decade (67,229 ISI-indexed papers; 625,927 citations, followed in citation totals by England (16,659 papers; 128,067 citations), Canada (15,683 papers; 106,344 citations), France (14,920 papers; 105,480 citations), and Germany (13,116 papers; 96,015 citations).

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Listed in the menu below, you will find tables and charts that accompany the article *The Greatest Research on Earth*:

- Geosciences Research: Institutions Ranked by Citations and Citation Impact - (among those that published >500 geosciences papers, 1991-2001)
- Most-Cited Authors in Geosciences, 1991-2001 - (Ranked by total citations)

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**Geosciences Research:
Institutions Ranked by Citations and Citation Impact**
(among those that published >500 geosciences papers, 1991-2001)

| Rank | Institution | Citations 1991-2001 | Rank | Institution | Impact 1991-2001 |
|------|---------------------------------|------------------------|------|------------------------------------|---------------------|
| 1 | NASA | 61,984 | 1 | Max Planck Inst. Chemistry | 16.33 |
| 2 | NOAA | 46,058 | 2 | Natl. Ctr. Atmosph. Res. | 16.15 |
| 3 | U.S. Geol. Survey | 36,241 | 3 | Harvard University | 15.24 |
| 4 | Natl. Ctr. Atmosph. Res. | 32,286 | 4 | Columbia University | 14.94 |
| 5 | University of Washington | 30,151 | 5 | University of Rhode Island | 14.88 |
| 6 | University of Colorado | 28,634 | 6 | Princeton University | 14.74 |
| 7 | Columbia University | 24,583 | 7 | University of Washington | 14.36 |
| 8 | Caltech | 24,079 | 8 | Carnegie Inst. Washington | 13.96 |
| 9 | Woods Hole Oceanog. Inst. | 21,121 | 9 | NASA | 13.55 |
| 10 | MIT | 20,588 | 10 | University of Chicago | 13.54 |
| 11 | University of Calif., San Diego | 20,320 | 11 | Woods Hole Oceanog. Inst. | 13.44 |
| 12 | Geol. Survey Canada | 17,942 | 12 | NOAA | 13.44 |
| 13 | University of Cambridge | 15,655 | 13 | MIT | 13.41 |
| 14 | Australian Natl. University | 14,627 | 14 | L. Livermore Natl. Lab. | 12.44 |
| 15 | Princeton University | 14,341 | 15 | Caltech | 12.32 |
| 16 | University Calif. Los Angeles | 14,007 | 16 | University Calif., San Diego | 12.17 |
| 17 | Max Planck Inst. Chemistry | 13,243 | 17 | Oregon State University | 11.95 |
| 18 | University of Hawaii | 13,226 | 18 | University Calif., Santa Barbara | 11.85 |
| 19 | CSIRO | 13,075 | 19 | University of Colorado | 11.82 |
| 20 | Stanford University | 12,596 | 20 | SUNY Stony Brook | 11.43 |
| 21 | University of Michigan | 12,378 | 21 | Inst. Physique du Globe (France) | 11.41 |
| 22 | Harvard University | 12,204 | 22 | University of Maryland | 11.36 |
| 23 | University of Texas | 11,998 | 23 | Ecole Normale Superieure | 11.33 |
| 24 | University of Arizona | 11,753 | 24 | Australian Natl. University | 11.25 |
| 25 | Oregon State University | 11,605 | 25 | Atmospher. Environ. Serv. (Canada) | 11.07 |

SOURCE: ISI's Essential Science Indicators, 1991-2001

Most-Cited Authors in Geosciences, 1991-2001
(Ranked by total citations)

| Rank | Name | Affiliation | Field | Papers | Citations |
|------|------|-------------|-------|--------|-----------|
|------|------|-------------|-------|--------|-----------|

| | | | | | |
|----|------------------------|----------------------------------|-------------------------------|-----|------|
| 1 | Paul J. Crutzen | Max Planck Inst. Chemistry | Atmospheric Chem. | 110 | 2911 |
| 2 | Minze Stuiver | University of Washington | Radiocarbon Dating | 29 | 2745 |
| 3 | Susan Solomon | NOAA | Atmospheric Chem. | 78 | 2084 |
| 4 | Donald R. Blake | University of California, Irvine | Atmospheric Chem. | 102 | 2044 |
| 5 | W. Richard Peltier | University of Toronto | Atmospheric Phys./Geophys. | 92 | 2031 |
| 6 | Daniel J. Jacob | Harvard University | Atmospheric Chem. | 77 | 1948 |
| 7 | Glen W. Sachse | NASA Langley | Atmospheric Sci. | 96 | 1939 |
| 8 | Gerald L. Gregory | NASA Langley | Atmospheric Sci. | 87 | 1850 |
| 9 | Dennis V. Kent | Rutgers University | Geology | 54 | 1843 |
| 10 | William B. Rossow | NASA Goddard Institute | Atmospheric Sci. | 54 | 1827 |
| 11 | Philip D. Jones | University of East Anglia | Climatology | 68 | 1788 |
| 12 | Piers J. Sellers | NASA Johnson | Biometeorology | 38 | 1747 |
| 13 | John M. Wallace | University of Washington | Atmospheric Sci. | 45 | 1744 |
| 14 | James M. Russell | Hampton University | Atmospheric Sci. | 110 | 1714 |
| 15 | Nicholas J. Shackleton | University of Cambridge | Quaternary Sci. | 56 | 1683 |
| 16 | Joe W. Waters | NASA JPL | Atmospheric Sci. | 84 | 1682 |
| 17 | John D. Bradshaw | Georgia Tech | Atmospheric Sci. | 61 | 1668 |
| 18 | Frank C. Hawthorne | University of Manitoba | Crystallog./Mineralogy | 207 | 1655 |
| 19 | Max Loewenstein | NASA Ames | Atmospheric Chem. | 61 | 1616 |
| 20 | Fred C. Fehsenfeld | NOAA | Atmospheric Chem. | 69 | 1593 |
| 21 | Hanwant B. Singh | NASA Ames | Atmospheric Sci. | 59 | 1577 |
| 22 | Jan W. de Leeuw | Netherlands Inst. Sea Res. | Biogeochemistry | 105 | 1568 |
| 23 | Ants Leetmaa | NOAA | Climatology | 22 | 1543 |
| 24 | M. Patrick McCormick | Hampton University | Atmospheric Sci. | 51 | 1527 |
| 25 | Kevin E. Trenberth | Nat. Ctr. Atmosph. Res. | Atmospheric Sci. | 42 | 1526 |

SOURCE: ISI's Essential Science Indicators, 1991-2001

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List of Publications – W.R. Peltier – January 28 2009

Citation data – Web of Science

Total Citations 11, 439

Average citations per publication ~40 (citations not stripped to exclude numerous nulls)

Number of publications with more than 100 citations 26

H factor 51

a. Refereed Articles

1. J.F. Hermance and W.R. Peltier, "The magnetotelluric fields of a line source", *J. Geophys. Res.*, **75**, 3351-3359, 1970.
2. G. Chimonas and W.R. Peltier, "The bow wave generated by an auroral arc in supersonic motion", *Planet. Space Sci.*, **18**, 599-612, 1970.
3. W.R. Peltier and J.F. Hermance, "The magnetotelluric fields of a gaussian electrojet", *Can. J. Earth Sci.*, **8**, 338-346, 1971.
4. W.R. Peltier, "Penetrative convection in the planetary mantle", *Geophys. Astrophys. Fluid Dyn.*, **5**, 47-88, 1972.
5. G. Chimonas and W.R. Peltier, "On severe storm acoustic signals observed at ionospheric height", *J. Atmos. Terr. Phys.*, **36**, 821-828, 1974.
6. W.R. Peltier, "The impulse response of a Maxwell earth", *Rev. Geophys. Space Phys.*, **12**, 649-669, 1974.
7. W.R. Peltier and J.T. Andrews, "Glacial isostatic adjustment I: the forward problem", *Geophys. J. Roy. astr. Soc.*, **46**, 605-646, 1976.
8. W.R. Peltier, "Glacial isostatic adjustment II: the inverse problem", *Geophys. J. Roy. astr., Soc.*, **46**, 669-706, 1976.
9. P.A. Davis and W.R. Peltier, "Resonant parallel shear instability in the stably stratified p.b.P.", *J. Atmos. Sci.*, **33**, 1287-1300, 1976.
10. W.R. Peltier and C.O. Hines, "On a possible ionospheric technique for tsunami detection", *J. Geophys. Res.*, **81**, 1995-2000, 1976.
11. J.T. Andrews and W.R. Peltier, "Collapse of the Hudson Bay ice center and glacio-isostatic rebound", *Geology*, **2**, 73-75, 1976.
12. T.L. Clark and W.R. Peltier, "On the evolution and stability of finite amplitude mountain waves", *J. Atmos. Sci.*, **34**, 1715-1730, 1977.
13. P.A. Davis and W.R. Peltier, "Effects of dissipation on parallel shear instability near the ground", *J. Atmos. Sci.*, **34**, 1868-1884, 1977.

14. B.E. Ley and W.R. Peltier, "Wave generation and frontal collapse", *J. Atmos. Sci.*, **35**, 3-17, 1978.
15. W.R. Peltier, J. Hall and T.L. Clark, "The evolution of finite amplitude Kelvin-Helmholtz billows", *Geophys. Astrophys. Fluid Dyn.*, **10**, 53-87, 1978.
16. J.A. Clark, W.E. Farrell and W.R. Peltier, "Global changes in postglacial sea level: a numerical calculation", *Quaternary Research*, **9**, 265-287, 1978.
17. H.N. Sharpe and W.R. Peltier, "Parameterized mantle convection and the Earth's thermal history", *Geophys. Res. Lett.*, **5**, 737-740, 1978.
18. W.R. Peltier, W.E. Farrell and J.A. Clark, "Glacial isostasy and relative sea level: a global finite element model", *Tectonophysics*, **50**, 81-110, 1978. This paper was also reproduced in N.A. Toksoz ed., *Ocean Ridges and Arcs*, Elsevier Scientific Publishing Co., 1-30, 1979.
19. W.R. Peltier, "Ice sheets, oceans, and the Earth's shape", in N.A. Morner, ed., *Earth Rheology Isostasy and Eustasy*, John Wiley and Sons, 45-63, 1979.
20. P.W. Cary, G.K.C. Clarke and W.R. Peltier, "A creep instability analysis of the Antarctic and Greenland Ice Sheets", *Can. J. Earth Sci.*, **16**, 182-188, 1979.
21. W.R. Peltier and T.L. Clark, "The evolution and stability of finite amplitude mountain waves. Part II: Surface wave drag and severe downslope windstorms", *J. Atmos. Sci.*, **36**, 1498-1529, 1979.
22. H.N. Sharpe and W.R. Peltier, "A thermal history model for the Earth with parameterized convection", *Geophys. J. Roy. astr. Soc.*, **59**, 171-203, 1979.
23. P.A. Davis and W.R. Peltier, "Some characteristics of the Kelvin-Helmholtz and resonant over-reflection modes of shear flow instability and of their interaction through vortex pairing", *J. Atmos. Sci.*, **36**, 2394-2412, 1979.
24. W.R. Peltier, D.A. Yuen and P. Wu, "Postglacial rebound and transient rheology", *Geophys. Res. Lett.*, vol. **7**, no. 10, 733-736, 1980.
25. W.R. Peltier, "Models of glacial isostasy and relative sea level", in R.I. Walcott, ed., *Dynamics of Plate Interiors*, AGU Publications Ltd., 111-128, 1980.
26. D.A. Yuen and W.R. Peltier, "Mantle plumes and the thermal stability of the D" layer", *Geophys. Res. Lett.*, vol. **7**, no. 9, 625-28, 1980.
27. W.R. Peltier, "Mantle convection and viscosity", in A. Dziewonski and E. Boschi eds., *Physics of the Earth's Interior*, Proceedings of the Enrico Fermi Summer School in Physics, North Holland Publishing Co., 362-431, 1980.
28. D.A. Yuen, and W.R. Peltier, "Temperature dependent viscosity and local instabilities in mantle convection", *Physics of the Earth's Interior*, (op.cit.), 432-463, 1980.
29. W.R. Peltier and T.L. Clark, Reply to comments by D. Lilly and J. Klemp on "The evolution and stability of finite amplitude mountain waves II", *J. Atmos. Sci.*, vol. **37**, no. 9, 2122-25, 1980.

30. G. Jarvis and W.R. Peltier, "Oceanic bathymetry profiles flattened by radiogenic heating in a convecting mantle", *Nature* vol. **285**, no. 5767, 649-651, 1980.
31. D.A. Yuen, W.R. Peltier and G. Schubert, "On the existence of a second scale of convection in the upper mantle", *Geophys. J.R. astr. Soc.*, **65**, 171-190, 1981.
32. R. Sabadini and W.R. Peltier, "Pleistocene deglaciation and the Earth's rotation: implications for mantle viscosity", *Geophys. J.R. astr. Soc.*, **66**, 553-578, 1981.
33. R.E. Ley and W.R. Peltier, "Propagating mesoscale cloud bands", *J. Atmos. Sci.*, **38**, 1206-1219, 1981.
34. W.R. Peltier, "Surface plates and thermal plumes: separate scales of the mantle convective circulation", in R.J. O'Connell and W.S. Fyfe editors, *Evolution of the Earth*, Geodynamics Series volume 5, American Geophysical Union, Washington, D.C., pp. 229-248, 1981.
35. W.R. Peltier, P. Wu and D.A. Yuen, "The viscosities of the planetary mantle", in F. Stacey, M.S. Paterson, and A. Nicholas editors, *Anelasticity in the Earth*, Geodynamics Series volume 4, American Geophysical Union, Washington, D.C., pp. 59-77, 1981.
36. W.R. Peltier, "Ice age geodynamics", invited paper, *Ann. Rev. Earth Planetary Sciences*, **9**, 199-225, 1981.
37. Jarvis and W.R. Peltier, "Effects of lithospheric rigidity on ocean floor bathymetry and heat flow", *Geophys. Res. Lett.*, **8**, 857-860, 1981.
38. Jarvis and W.R. Peltier, "Mantle convection as a boundary layer phenomenon", *Geophys. J.R. astr. Soc.*, **68**, 389-427, 1982.
39. D.A. Yuen and W.R. Peltier, "Normal modes of the viscoelastic earth", *Geophys. J.R. astr. Soc.*, **69**, 495-526, 1982.
40. A. Simard and W.R. Peltier, "Ship waves in the lee of isolated topography", *J. Atmos. Sci.*, **39**, 587-609, 1982.
41. P. Wu and W.R. Peltier, "Viscous gravitational relaxation", *Geophys. J.R. astr. Soc.*, **70**, 435-485, 1982.
42. W.R. Peltier, "Dynamics of the ice age earth", *Advances in Geophysics*, vol. **24**, 1-146, 1982.
43. W.R. Peltier and Patrick Wu, "Mantle phase transitions and the free air gravity anomalies over Fennoscandia and Laurentia", *Geophys. Res. Lett.*, **9** (7), 731-734, 1982.
44. W.R. Peltier and G.T. Jarvis, "Whole mantle convection and the thermal evolution of the earth", *Phys. Earth Planet Int.*, **29**, 281-304, 1982.
45. W.R. Peltier and John T. Andrews, "Glacial geology and glacial isostasy of the Hudson Bay Region", in D.E. Smith and A. Dawson editors, *Shorelines and Isostasy*, Academic Press, pp. 285-319, 1983.

46. W.R. Peltier and T.L. Clark, "Nonlinear mountain waves in two and three spatial dimensions", *Quart. J.R. Meteorol. Soc.*, **109**, 527-548, 1983.
47. W.R. Peltier and P. Wu, "Continental lithospheric thickness and deglaciation induced true polar wander", *Geophys. Res. Lett.*, **10**, 181-184, 1983.
48. P. Wu and W.R. Peltier, "Glacial isostatic adjustment and the free air gravity anomaly as a constraint on deep mantle viscosity", *Geophys. J.R. Astron. Soc.*, **74**, 377-449, 1983.
49. W.R. Peltier, "Constraint on deep mantle viscosity from LAGEOS acceleration data", *Nature*, **304**, 434-436, 1983.
50. P. Wu and W.R. Peltier, "Pleistocene deglaciation and the earth's rotation: A new analysis", *Geophys. J.R. astr. Soc.*, **76**, 753-792, 1984.
51. W.R. Peltier, "The thickness of the continental lithosphere", *J. Geophys. Res.*, **89**, B13, 303-316, 1984.
52. T.L. Clark and W.R. Peltier, "Critical level reflection and the resonant growth of nonlinear mountain waves", *J. Atmos. Sci.*, **41**, 3122-3134, 1984.
53. W.R. Peltier and W. Hyde, "A model of the ice age cycle". In *Milankovitch and Climate Part 2*, A. Berger. et al. D. Reidel. Dordrecht. pp. 565-580, 1984.
54. W.R. Peltier, "The rheology of the planetary interior", *J. Rheol.*, **28**, 665-697, 1984.
55. W.R. Peltier, "Mantle convection and viscoelasticity", invited paper, *Ann. Rev. Fluid Mech.*, **17**, 561-608, 1985.
56. W.R. Peltier, "The LAGEOS constraint on deep mantle viscosity: results from a new normal mode method for the inversion of viscoelastic relaxation spectra", *J. Geophys. Res.*, **90**, 9411-9421, 1985.
57. W.R. Peltier, "Climatic implications of isostatic adjustment constraints on current variations of eustatic sea level", in *Glaciers, Ice Sheets and Sea Level: Effect of a CO₂ Induced Climatic Change*, M. Meier ed., National Academy Press, Washington, DC, pp. 92-103, 1985.
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