

Wind

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casanatensis Wind is the flow of air. More generally, it is the flow of the gases which compose an atmosphere; since wind is not unique to Earth.. Simply it occurs as air is heated by the sun and thus rises. Cool air then rushes in to occupy the area the now hot air has moved from. It could be loosely classed as a convection current. Winds are commonly classified by their spatial scale, their speed, the types of forces that cause them, the geographic regions in which they occur, or their effect. There are global winds, such as the wind belts which exist between the atmospheric circulation cells. There are upper-level winds which typically include narrow belts of concentrated flow called jet streams. There are synoptic-scale winds that result from pressure differences in surface air masses in the middle latitudes, and there are winds that come about as a consequence of geographic features, such as the sea breezes on coastlines or canyon breezes near mountains. Mesoscale winds are those which act on a local scale, such as gust fronts. At the smallest scale are the microscale winds, which blow on a scale of only tens to hundreds of meters and are essentially unpredictable, such as dust devils and microbursts. Forces which drive wind or affect it are the pressure gradient force, the Coriolis force, buoyancy forces, and friction forces. When a difference in pressure exists between two adjacent air masses, the air tends to flow from the region of high pressure to the region of low pressure. On a rotating planet, flows will be acted upon by the Coriolis force, in regions sufficiently far from the equator and sufficiently high above the surface. The three major driving factors of large scale global winds are the differential heating between the equator and the poles , and the rotation of the planet. Winds can shape landforms, via a variety of aeolian processes. ([From the Wikipedia article Wind](#) .)

Recent Publications on Wind:



- [Metallic species in ambient particulate matter at rural and urban location of Delhi.](#)
*In the present study 14 metallic species (six crustal and eight trace...*21st November, 2009
School of Environmental Sciences, Jawaharlal Nehru University, New Delhi,- J Hazard Mater. 2009 Oct 20. ([DOI Direct Link](#))
- [Aircraft Emission Impacts in a Neighborhood Adjacent to a General Aviation Airport in Southern California.](#)
*Real time air pollutant concentrations were measured downwind of Santa...*21st November, 2009
Department of Atmospheric and Oceanic Sciences, University of California,- Environ Sci Technol. 2009 Nov 1;43(21):8039-8045. ([DOI Direct Link](#))
- [Avian Host-Selection by Culex pipiens in Experimental Trials.](#)
*Evidence from field studies suggests that Culex pipiens, the primary...*20th November, 2009
Department of Epidemiology and Public Health, Yale School of Public- PLoS One. 2009 Nov 17;4(11):e7861. ([DOI Direct Link](#))
- [Semi-volatile organic compounds \(SVOCs\) in ambient air and rainwater in a tropical environment: Concentrations and temporal and seasonal trends.](#)

- The levels of a range of SVOCs (PAHs, OCPs, and PCBs) in atmospheric...* 20th November, 2009
Division of Environmental Science and Engineering, National University of- Chemosphere. 2009 Nov 16. ([DOI Direct Link](#))
- [Aircraft-Based Measurements of the Carbon Footprint of Indianapolis.](#)
The quantification of greenhouse gas emissions requires high precision... 20th November, 2009
Department of Earth and Atmospheric Science, Purdue University, 550- Environ Sci Technol. 2009 Oct 15;43(20):7816-7823. ([DOI Direct Link](#))
 - [Potential of wind turbines to elicit seizures under various meteorological conditions.](#)
Purpose: To determine the potential risk of epileptic seizures from wind... 19th November, 2009
School of Earth, Atmospheric and Environmental Sciences, University of- Epilepsia. 2009 Nov 16. ([DOI Direct Link](#))
 - [Investigation of equine influenza transmission in NSW: walk, wind or wing?](#)
Objectives: An outbreak of equine influenza occurred in New South Wales in... 18th November, 2009
NSW Public Health Officer Training Program, NSW Department of Health.- N S W Public Health Bull. 2009 Sep-Oct;20(9-10):152-6.
 - [A Drinking Water Crisis in Lake Taihu, China: Linkage to Climatic Variability and Lake Management.](#)
In late May, 2007, a drinking water crisis took place in Wuxi, Jiangsu... 17th November, 2009
State Key Laboratory of Lake Science and Environment, Nanjing Institute of- Environ Manage. 2009 Nov 14. ([DOI Direct Link](#))
 - [Malocclusion and wind instruments investigated.](#)
In late May, 2007, a drinking water crisis took place in Wuxi, Jiangsu... 17th November, 2009
- Br Dent J. 2009 Nov 14;207(9):414. ([DOI Direct Link](#))
 - [Wind-borne insects mediate directional pollen transfer between desert fig trees 160 kilometers apart.](#)
The question of how far pollen can move between plants has implications... 17th November, 2009
Centre for Plant Sciences, Faculty of Biological Sciences, Institute of- Proc Natl Acad Sci U S A. 2009 Nov 12. ([DOI Direct Link](#))
 - [FleaTickRisk: a meteorological model developed to monitor and predict the activity and density of three tick species and the cat flea in Europe.](#)
Mathematical modelling is quite a recent tool in epidemiology... 13th November, 2009
Merial, 29 Av T. Garnier,- Geospat Health. 2009 Nov;4(1):97-113.
 - [Testing blood donors for Chagas disease in the Paris area, France: first results after 18 months of screening.](#)
BACKGROUND: Chagas disease is endemic in Latin America (LA). Currently 10... 13th November, 2009
From the Etablissement Francais du Sang Ile de France, Rungis; the Service- Transfusion. 2009 Nov 9. ([DOI Direct Link](#))
 - [Universality of solar-wind turbulent spectrum from MHD to electron scales.](#)
To investigate the universality of magnetic turbulence in space plasmas,... 13th November, 2009
Institute of Geophysics and Meteorology, University of Cologne,- Phys Rev Lett. 2009 Oct 16;103(16):165003. Epub 2009 Oct 14.
 - [Waiting-time distributions of magnetic discontinuities: clustering or Poisson process?](#)
Using solar wind data from the Advanced Composition Explorer spacecraft,... 13th November, 2009
Dipartimento di Fisica, Universita' della Calabria, Cosenza, Italy.- Phys Rev E Stat Nonlin Soft Matter Phys. 2009 Oct;80(4 Pt 2):046401. Epub
 - [\[Meridian differentiation of lumbar intervertebral disc herniation\]](#)
Based on the location of disease and its clinical manifestations, the... 12th November, 2009
Department of Spine Surgery, the 3rd Affiliated Hospital of Traditional- Zhongguo Gu Shang. 2009 Oct;22(10):777-8.

BioNews Results for Wind

- [Winds of Plague blows into Utah with 'Great Stone War'](#)
Standard Examiner: Nov 21 2009 12:57AM Matching: wind
- [Finlay is delayed, again](#)
Medicine Hat News: Nov 21 2009 3:36AM Matching: wind
- [Schneider Power Announces Third Quarter Results](#)
Genetic Engineering News: Nov 20 2009 10:21PM Matching: wind
- [Nigeria: N.9 Million Locals Need HIV/Aids Drugs - NACA Boss](#)
AllAfrica.com: Nov 20 2009 8:53AM Matching: wind
- [NJIT receives NSF funding to improve Big Bear Telescope, study solar energy](#)
Genetic Engineering News: Nov 20 2009 9:56PM Matching: wind
- [Genetic Testing! The Solution to All Your Parenting Woes!](#)
GenomeWeb: Nov 20 2009 7:25PM Matching: wind
- [From toxic dust and algae to ill winds from Africa](#)
Research & Development: Nov 20 2009 5:37PM Matching: wind
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Genetic Engineering News: Nov 20 2009 4:49PM Matching: wind
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KDAF: Nov 20 2009 9:32AM Matching: wind
- [Do TV shows give a bad impression of NHS staff?](#)
BBC: Nov 20 2009 8:23AM Matching: wind
- [Climbing over cancer](#)
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- [H1N1 flu vaccine arrives in area, more taking advantage of the shots](#)
Antigo Daily Journal: Nov 20 2009 1:35AM Matching: wind
- [Dedication: Pharmacy classic space on the National Mall](#)
Pharmacist.com: Nov 20 2009 1:23AM Matching: wind
- [Leading Materials Science Conference and Exposition Exceeds Expectations](#)
Research & Development: Nov 19 2009 11:54PM Matching: wind
- [A select guide to where to buy Chanukah gifts](#)
Chicago Jewish News: Nov 19 2009 11:13AM Matching: wind

Wind Patents:



- 7618096- [Seat structure](#)
- 7619133- [Polynucleotides and methods for making plants resistant to fungal pathogens](#)
- 7619147- [Plants and seeds of corn variety CV449242](#)
- 7619149- [Maize variety PHWSF](#)
- 7619150- [Plants and seeds of corn variety CV227310](#)
- 7619151- [Plants and seeds of corn variety CV614443](#)
- 7619152- [Plants and seeds of corn variety CV341132](#)
- 7619153- [Plants and seeds or corn variety CV024085](#)
- 7619183- [Method and apparatus for cooking using a combustible gas produced with an electrolyzer](#)
- 7619234- [Ultraviolet monitoring system](#)
- 7619319- [Network of energy generating modules for transfer of energy outputs](#)

- 7619027- [Plasticized polyolefin compositions](#)
- 7619026- [Plasticized polyolefin compositions](#)
- 7618217- [Post-tension pile anchor foundation and method therefor](#)
- 7618237- [Wind driven power system](#)
- 7618299- [Easy off low voltage mounting](#)
- 7618301- [Fold-out playsets with pop-up structures](#)
- 7618309- [Fan device for a computer host](#)
- 7618310- [Apparatus and methods for ventilation of solar roof panels](#)
- 7618353- [Bicycle treadmill](#)
- 7618600- [Reactor for removing ammonia](#)
- 7618716- [Wave plate](#)
- 7618919- [Catalyst support and method of producing the same](#)
- 7619321- [Method of operating a wind power station](#)
- 7619332- [Permanent magnet type electric rotating machine and wind turbine electric power generation system](#)
- 7619337- [Brushless motor, brushless type fan motor and electric device comprising a brushless type fan motor](#)
- 7620281- [Subwavelength-diameter silica wires for low-loss optical waveguiding](#)
- 7620414- [Wind-up power control method and apparatus in mobile communications system](#)
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