

## 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.

### Recent Publications on Wind:



- [Wind erosion of waste impoundments in arid climates and mitigation of dust pollution.](#)  
*Wind can erode and disperse fine-grained material from an impoundment of...*29th November, 2008  
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- [Aerosol sampling by annular aspiration slots.](#)  
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- [Experimental methods to determine inhalability and personal sampler performance for aerosols in ultra-low windspeed environments.](#)  
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- [Enriching learning using Web and computer technologies: how not to throw caution to the wind.](#)  
*Proponents of computer or web-based learning enthusiastically discuss its...*28th November, 2008  
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- [Assessing diversity of diurnal lepidoptera in habitat fragments: testing the efficiency of strip transects.](#)  
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  - [\[Species of Lutzomyia involved in an urban focus of visceral and cutaneous leishmaniasis.\]](#)  
*Introduction. A focus of leishmanias transmission was reported in the...*27th November, 2008  
 Unidad de Entomologia, Laboratorio de Salud Publica Departamental,- Biomedica. 2008  
 Sep;28(3):423-32.
  - [Preformation and distribution of staminate and pistillate flowers in growth units of Nothofagus alpina and N. obliqua \(Nothofagaceae\).](#)  
*Background and Aims The distribution and differentiation times of flowers...*27th November, 2008  
 Instituto Nacional de Investigaciones en Biodiversidad y Medioambiente,- Ann Bot (Lond). 2008 Nov  
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  - [Simulation of atmospheric dispersion of radionuclides using an Eulerian-Lagrangian modelling system.](#)  
*In this paper we present an atmospheric dispersion scenario for a proposed...*26th November, 2008  
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  - [Factors associated with fatigued, injured, and dead pig frequency during transport and lairage at a commercial abattoir.](#)  
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  - [A numerical investigation of the impact of low boundary walls on pedestrian exposure to air pollutants in urban street canyons.](#)  
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  - [Transient response of sap flow to wind speed.](#)  
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*\* Estimating distances and rates of seed dispersal, especially...*22nd November, 2008  
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  - [In vitro estrogenicity of ambient particulate matter: contribution of hydroxylated polycyclic aromatic hydrocarbons.](#)  
*Atmospheric particulate matter (PM1) was collected at an urban and a rural...*21st November, 2008  
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- [China West II Announces Correction and Update to Conference Call Details Regarding Suit Against Genesis Pharma](#)  
*Kait 8: Nov 29 2008 6:19AM Matching: wind*
- [China West II Announces Correction and Update to Conference Call Details Regarding Suit Against Genesis Pharma](#)  
*Sun Herald: Nov 29 2008 4:43AM Matching: wind*
- [China West II Announces Correction and Update to Conference Call Details Regarding Suit Against Genesis Pharma](#)  
*Montana's News Station: Nov 29 2008 1:54AM Matching: wind*
- [China West II Announces Correction and Update to Conference Call Details Regarding Suit Against Genesis Pharma](#)  
*KLFY: Nov 29 2008 12:51AM Matching: wind*
- [China West II Files Suit Against Genesis Pharmaceuticals and Capital Research Group Inc, Announces Conference](#)  
*TickerTech.com: Nov 28 2008 9:11AM Matching: wind*
- [China West II Files Suit Against Genesis Pharmaceuticals and Capital Research Group Inc, Announces Conference](#)  
*KOTA Territory News: Nov 28 2008 5:03AM Matching: wind*
- [China West II Files Suit Against Genesis Pharmaceuticals and Capital Research Group Inc, Announces Conference](#)  
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- [China West II Announces Correction and Update to Conference Call Details Regarding Suit Against Genesis Pharma](#)  
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*FinanzNachrichten.de: Nov 28 2008 8:53PM Matching: wind*
- [China West II Announces Correction and Update to Conference Call Details Regarding Suit Against Genesis Pharma](#)  
*TradingMarkets: Nov 28 2008 8:27PM Matching: wind*

**Wind Clinical Trials:**



- [Effectiveness of Hearing-Aid Based Wind-Noise Algorithm](#)  
*Hearing Impairment*



## Wind Patents:

- 7457757- [Intelligibility control for speech communications systems](#)
- 7456604- [Electric power control apparatus, power generation system and power grid system](#)
- 7456597- [Method of driving fan motor](#)
- 7456534- [Rotating electrical machine](#)
- 7456533- [Motor and electric apparatus equipped with a conductive pin for suppressing electrolytic corrosion](#)
- 7456523- [Power generation system, and administration apparatus and administration method of power generation system](#)
- 7456519- [Power conversion system](#)
- 7456515- [Wind turbine for use offshore](#)
- 7456512- [Portable sea-powered electrolysis generator](#)
- 7456511- [Wind powered global positioning tracking device](#)
- 7456510- [Wind power generator](#)
- 7456375- [Image heating apparatus of induction heating type and excitation coil unit adapted for the use therein](#)
- 7456373- [Welder with front mount fan](#)
- 7456354- [Pole with knock-outs](#)
- 7456695- [Apparatus, method and computer program product for tracking information in an electric grid](#)
- 7456770- [Distributed sigma-delta sensor network](#)
- 7457724- [Shoes and garments employing one or more of accelerometers, wireless transmitters, processors, altimeters, to determine information such as speed to persons wearing the shoes or garments](#)
- 7457698- [Coordinated joint motion control system](#)
- 7457675- [External status asset monitor](#)
- 7457628- [System and method for providing information based on geographic position](#)
- 7457545- [Process for controlling a Hartmann wavefront sensor \(WFS\) in an adaptive optic \(AO\) system](#)
- 7457423- [Multi-accessory vehicle audio system, switch and method](#)
- 7457416- [Key distribution center for quantum cryptographic key distribution networks](#)
- 7457133- [Electronic apparatus with natural convection structure](#)
- 7457112- [Disk array apparatus](#)
- 7457038- [Omnidirectional lenticular and barrier-grid image displays and methods for making them](#)
- 7456802- [Adjustable mounting bracket for satellite dishes](#)
- 7456799- [Wideband vehicular antennas](#)
- 7456797- [Antenna system with parasitic element and associated method](#)
- 7456348- [Inbred maize line PHEWW](#)

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