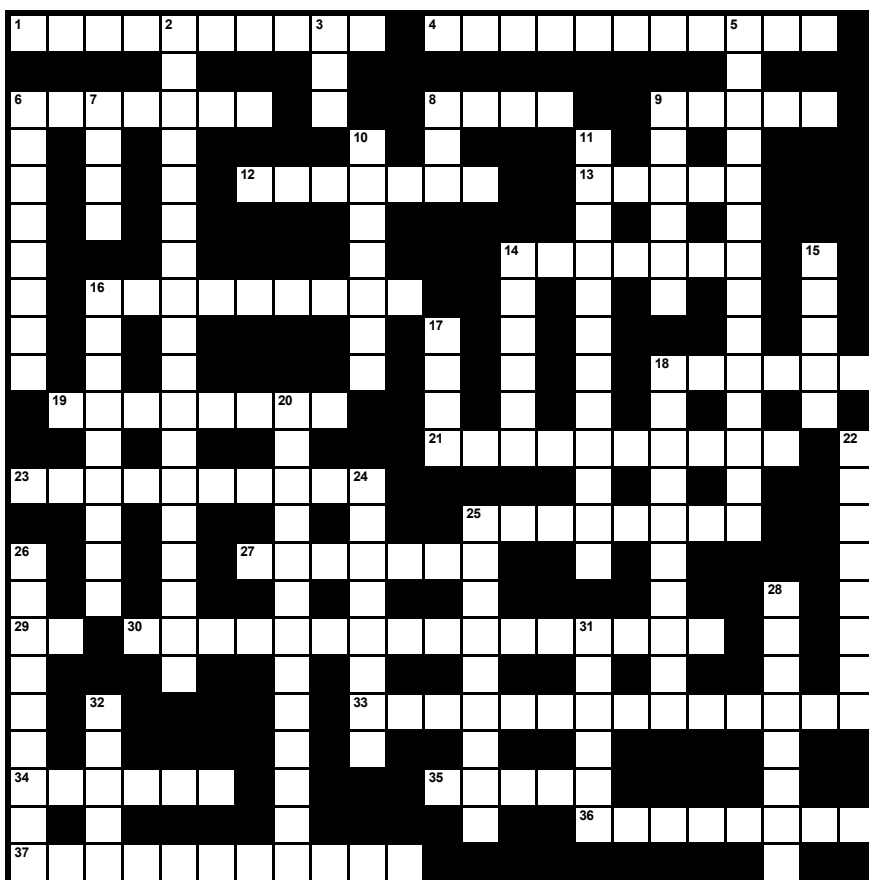


Air Chemistry - 23 x 23 - 220503

Across

- 1 Steady winds blowing from east to west above and below the equator. (5,5)
- 4 Tending not to dissolve in or mix with or be wetted by water. (11)
- 6 A consistent change in the sea level that affect oceans, throughout the world. (7)
- 8 The rate of flow of energy or particles across a given surface. (4)
- 9 All the plant life in a particular region. (5)
- 12 The branch of biology concerned with the relations between organisms and their environment. (7)
- 13 The XXXXXs cover approximately 70% of the Earth's surface. (5)
- 14 Its molecular formula is NH₃. (7)
- 16 Living or active in the absence of free oxygen. (9)
- 18 A quantum of electromagnetic radiation. (6)
- 19 The temperature at which condensation begins. (3,5)
- 21 A chemical reaction associated with release of energy or heat into the surroundings. (10)



- 23 The process by which water is transpired and evaporated from the land and water, condensed in the clouds, and precipitated out onto the earth once again to replenish the water in the bodies of water on the earth. (5,5)
- 25 Rain containing acids that form in the atmosphere when industrial gas emissions combine with water. (4,4)
- 27 Of or relating to or happening on the bottom under a body of water. (7)
- 29 The logarithm of the reciprocal of hydrogen-ion concentration in gram atoms per liter. (2)
- 30 International environmental agreement to prevent the use of substances that are harmful to ozone. (8,8)
- 33 Synthesis of compounds with the aid of radiant energy (especially in plants). (14)
- 34 Relating to or marked by a severe deficiency of oxygen in tissues or organs. (6)
- 35 A unit of electrical energy equal to the work done when a current of one ampere

passes through a resistance of one ohm for one second. (5)

- 36 Clouds that are also be called "mother of pearl" clouds. (8)
- 37 A chemical reaction occurring with absorption of heat. (11)

Down

- 2 Water that is evaporated and transpired by plants as a part of their metabolic processes. (18)
- 3 An insecticide that is also toxic to animals and humans; banned in the United States since 1972. (3)
- 5 The random 3-D motion of small particles suspended in a gas or liquid (8,6)
- 6 An elongated circle. (8)
- 7 This is a term used to describe a mixture of smoke and fog. (4)
- 8 Droplets of water vapour suspended in the air near the ground. (3)
- 9 Any of hydrocarbons

containing fluorine and chlorine, used as refrigerants. (6)

- 10 A slow-moving large mass of ice formed in higher latitudes and elevations. (7)
- 11 CH₂O, A colourless poisonous gas; made by the oxidation of methanol. (12)
- 14 The ratio of reflected to incident light. (6)
- 15 A colourless and odourless inert gas; comprises approximately 1% of the earth's atmosphere. (5)
- 16 The horizontal transfer of heat or other atmospheric properties. (9)
- 17 Atmospheric moisture or dust or smoke that causes reduced visibility. (4)
- 18 Ground that is permanently frozen. (10)
- 20 A hypothesis that large scale nuclear war might lead to worldwide darkening and cooling of the atmosphere with consequent devastation of al life forms. (7,6)
- 22 A fibrous amphibole; used

for making fireproof articles; inhaling its fibers can cause lung cancer. (8)

- 24 The sum of the internal energy of a system and the product of its volume and pressure. (8)
- 25 Mixing of air particles to falling rain or snow drops. (9)
- 26 The rate of decrease of temperature with increasing altitude in the atmosphere. (5,4)
- 28 The release or giving out of a gas, light or heat. (8)
- 31 It constitutes about 21% of the air we breathe. (6)
- 32 A visible mass of water or ice particles suspended at a considerable altitude. (5)