

## Air Chemistry - 19 x 19

### Across

3 The rate of flow of energy or particles across a given surface. (4)

4 The force of attraction of the earth's mass for bodies near its surface. (7)

9 It constitutes about 21% of the air we breathe. (6)

11 The logarithm of the reciprocal of hydrogen-ion concentration in gram atoms per liter. (2)

12 The XXXXs cover approximately 70% of the Earth's surface. (5)

14 The lowest atmospheric layer; from 4 to 11 miles high (depending on latitude). (11)

15 Water that is evaporated and transpired by plants as a part of their metabolic processes. (18)

19 The sum of the internal energy of a system and the product of its volume and pressure. (8)

21 A cooler darker spot appearing periodically on the surface of the sun; associated with a strong magnetic field. (7)

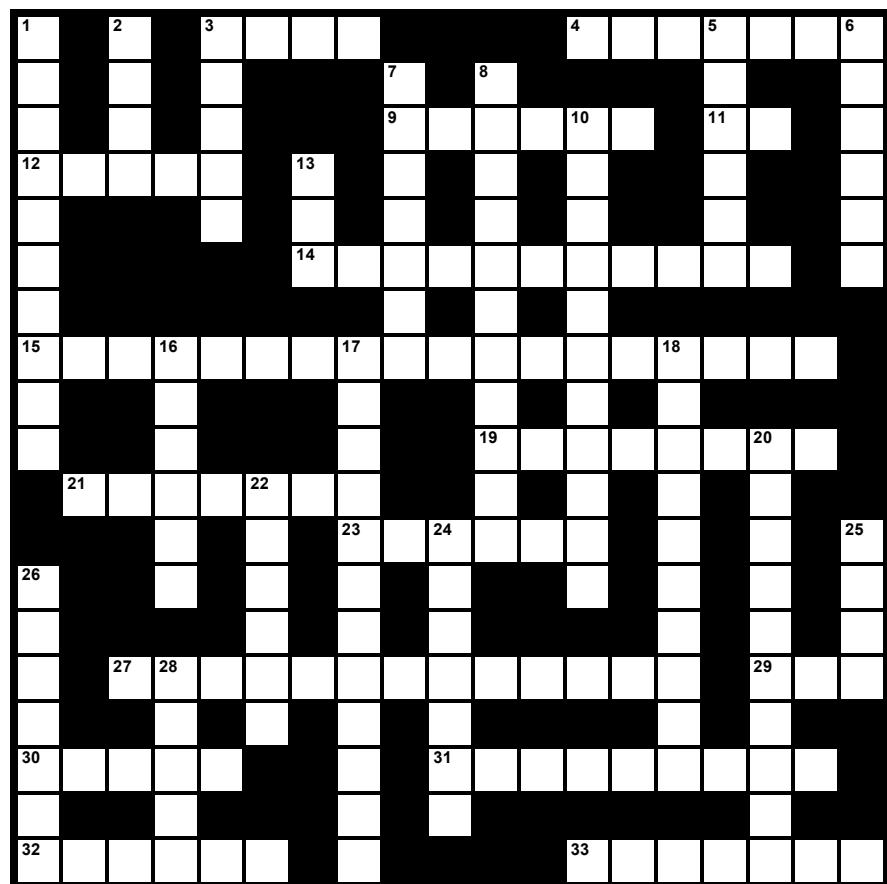
23 The ratio of reflected to incident light. (6)

27 The opposite of deforestation. (13)

29 Droplets of water vapour suspended in the air near the ground. (3)

30 A colourless and odourless inert gas; comprises approximately 1% of the earth's atmosphere. (5)

31 An anomaly that temperature of the



atmosphere near the earth's surface increases rather than decreases (normally) with height. (9)

32 A constituent of natural gas with molecular formula C<sub>2</sub>H<sub>6</sub>. (6)

33 A large dark low cloud. (7)

### Down

1 The sum total of all the gases surrounding the Earth. (10)

2 Atmospheric moisture or dust or smoke that causes reduced visibility. (4)

3 All the animal life in a particular region. (5)

5 Water present in the atmosphere in gaseous form. (6)

6 Similar to the colour of an egg yolk. (6)

7 A seasonal wind in South Asia that blows from the South West bringing rain in summer. (7)

8 The watery layer of the earth's surface; includes water vapour. (11)

10 The process of the change in the state of a liquid or solid to a gas or vapour. (11)

13 An insecticide that is also toxic to animals and humans; banned in the United States since 1972. (3)

16 Also called carbolic acid. (6)

17 A simple aldehyde formed in atmosphere as a result of emissions from the manufacture of acetic acid, plastics, raw materials, etc. (12)

18 Steady winds

blowing from east to west above and below the equator. (5,5)

20 Ground that is permanently frozen. (10)

22 A quantum of electromagnetic radiation. (6)

24 Of or relating to or happening on the bottom under a body of water. (7)

25 This is a term used to describe a mixture of smoke and fog. (4)

26 CH<sub>4</sub>, A colourless odourless gas used as a fuel. (7)

28 All the plant life in a particular region. (5)