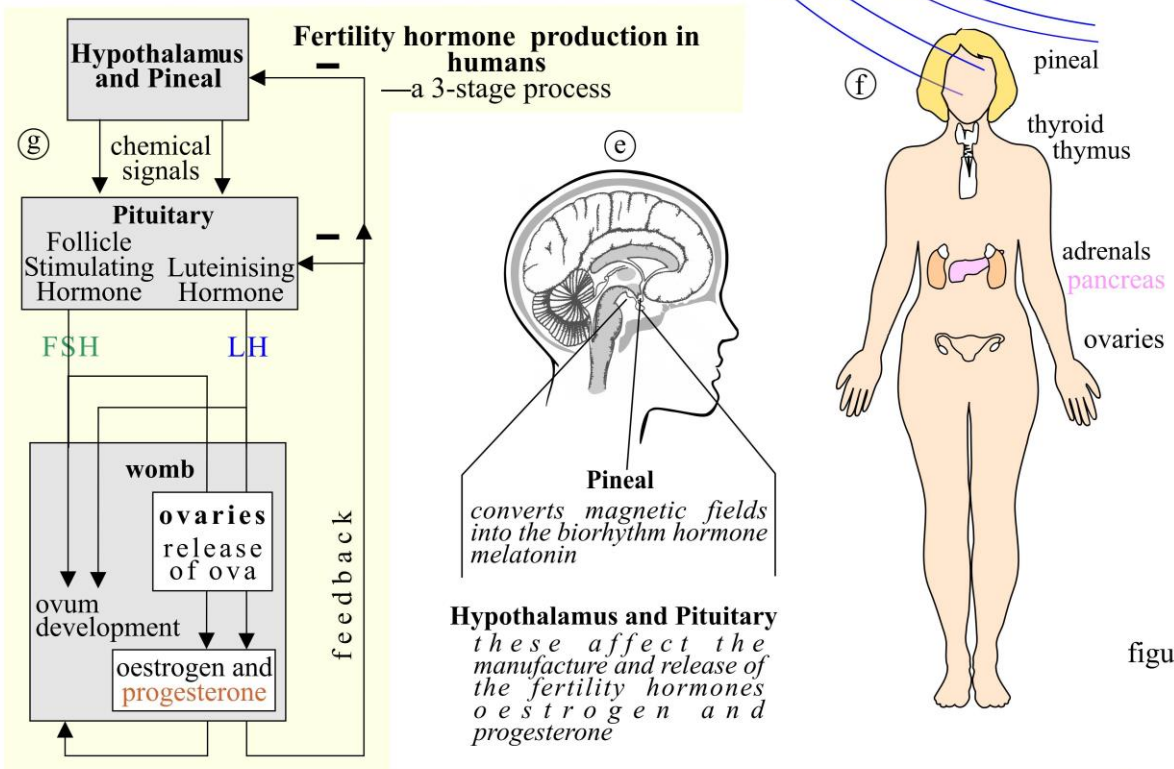
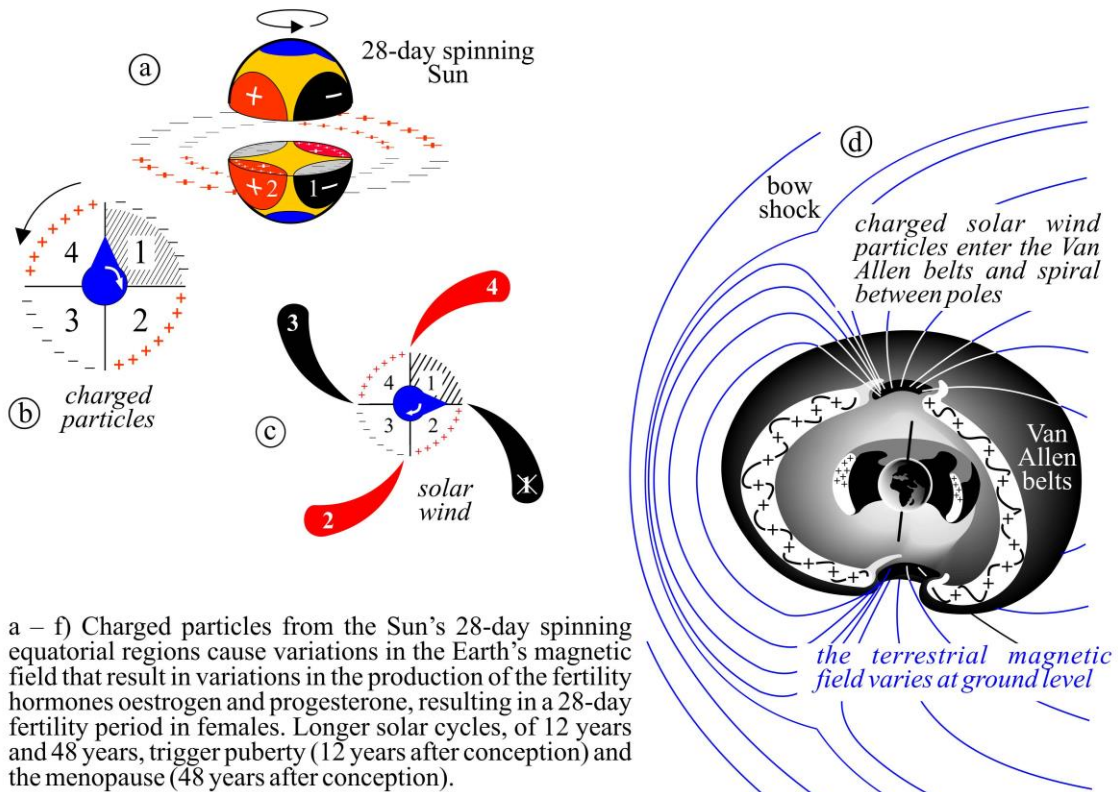


How the Sun affects Fertility in Humans

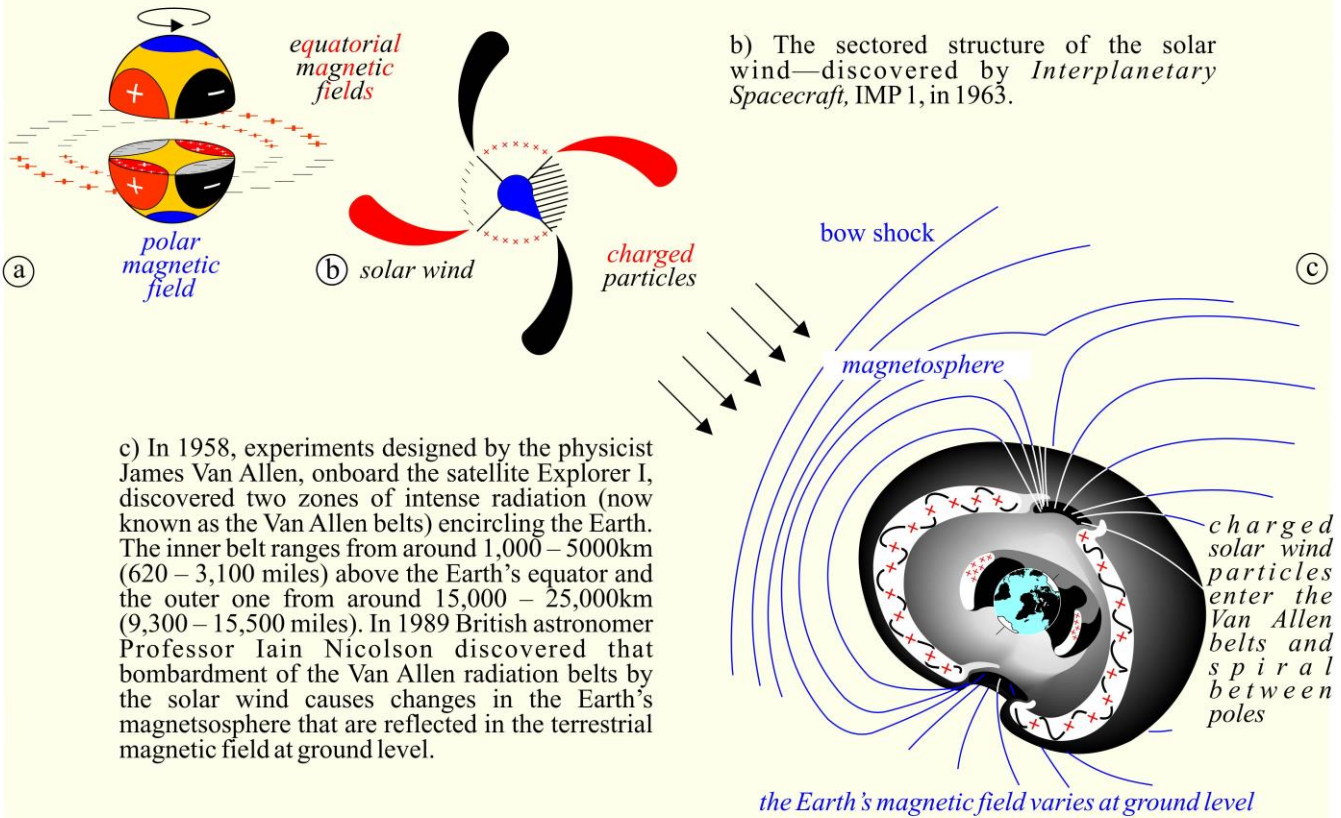


g) Summary of hormonal control of the ovarian function: The hypothalamus sends chemical signals to the so-called master gland, the pituitary, which manufactures and releases the follicle stimulating hormone (FSH) and the luteinising hormone (LH), both of which are essential for the release of eggs from the ovaries. Ovaries stimulate the production of oestrogen and progesterone. When sufficient levels of these have been produced a feedback signal to the pituitary, hypothalamus and pineal switches-off the production of FSH and LH. This schematic shows how the 28-day solar-inspired magnetic variations stimulate the hypothalamus and the pituitary causing changes to the duration of the fertility cycle.

1.
figure 1.

How Pigeons 'Home'

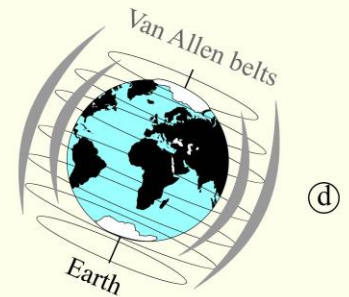
28-day spinning Sun



c) In 1958, experiments designed by the physicist James Van Allen, onboard the satellite Explorer I, discovered two zones of intense radiation (now known as the Van Allen belts) encircling the Earth. The inner belt ranges from around 1,000 – 5000km (620 – 3,100 miles) above the Earth's equator and the outer one from around 15,000 – 25,000km (9,300 – 15,500 miles). In 1989 British astronomer Professor Iain Nicolson discovered that bombardment of the Van Allen radiation belts by the solar wind causes changes in the Earth's magnetosphere that are reflected in the terrestrial magnetic field at ground level.

the Earth's magnetic field varies at ground level

d) Collisions between solar wind particles and the Earth's magnetosphere result in pulses of magnetism sweeping from North pole to South pole [and South pole to North pole] every 1 second. In 1987 Dr Ross Adey, White House Chief Medical Advisor, discovered that 'about 20% of pineal cells in pigeons, guinea-pigs and rats respond to changes in both direction and intensity of the Earth's magnetic field ...causing variations in the peptide hormone melatonin, which powerfully influences circadian rhythms'.



f) (below) Whenever an organism is removed from its geographical place of birth it is subjected to a different combination of magnetic fields from the Sun and Earth. This new level disrupts hormone levels throughout the endocrine system resulting in depression and anxiety—colloquially referred-to as 'homesickness'.

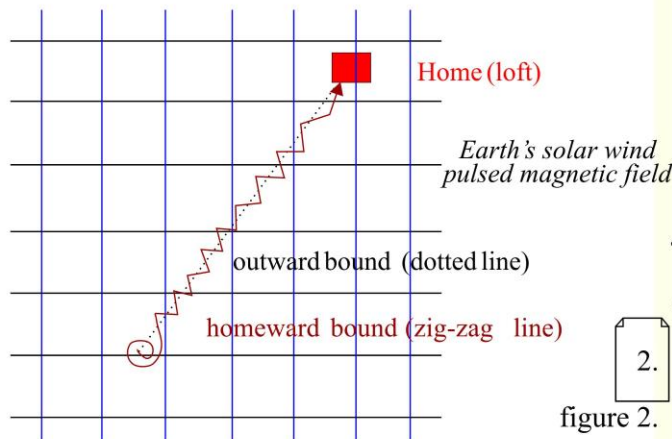
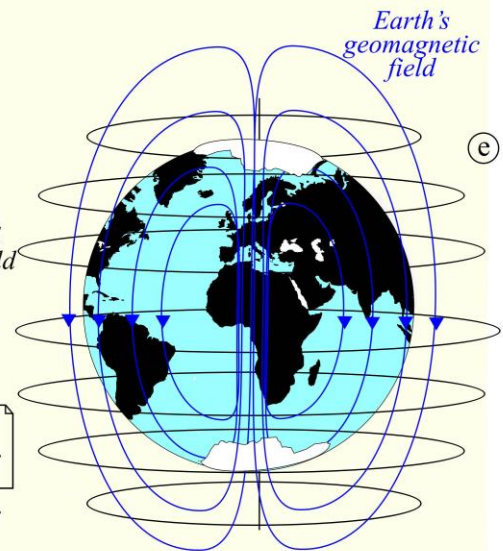


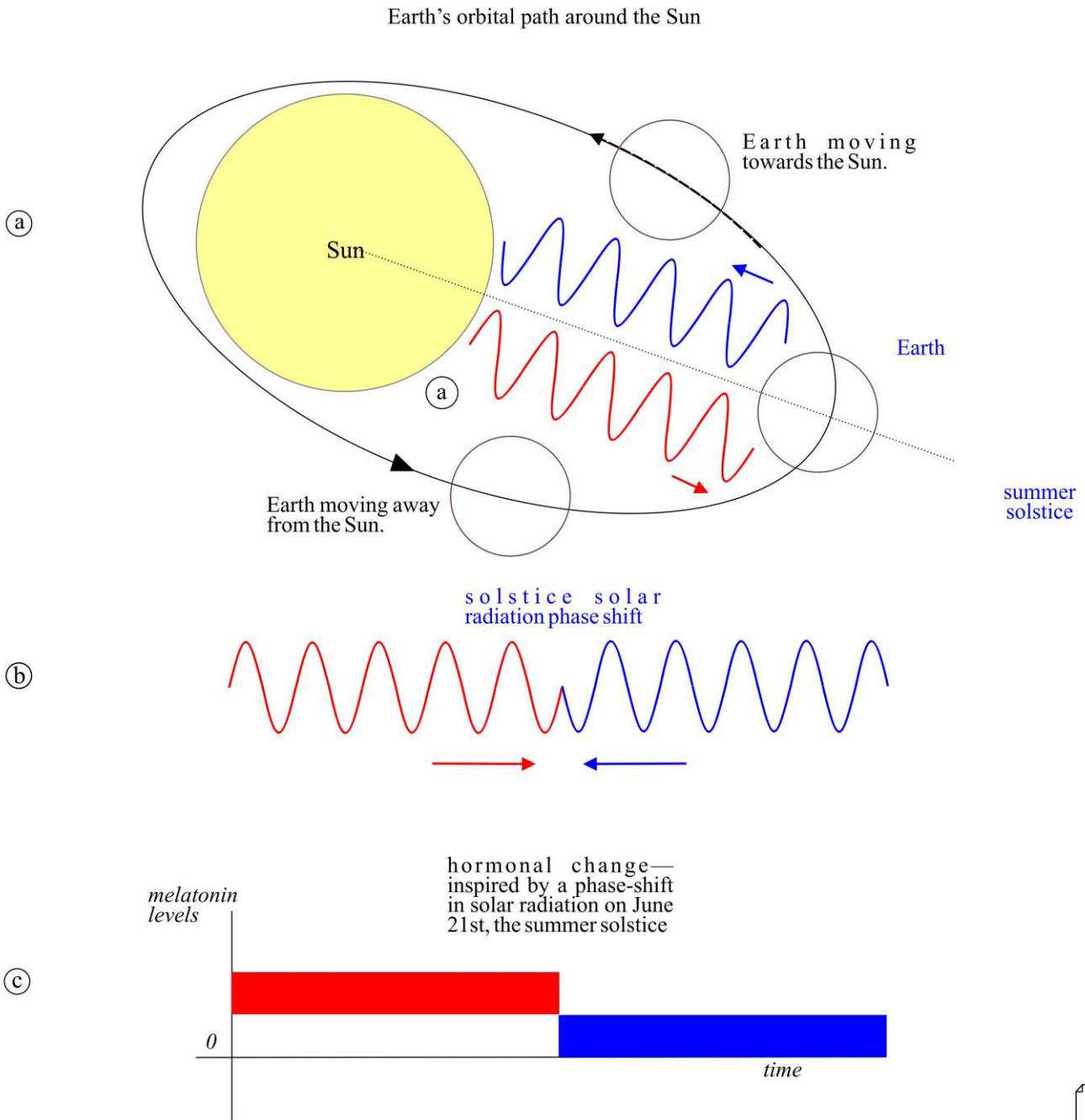
figure 2.



f) (above) When released, far from home, the pigeon often circles, to determine the direction of least anxiety (home). It maintains its course by zig-zagging and sensing the magnetic deviation either-side of the intended course—like an 'auto-pilot' that steers a ship relative to the gyro compass set to true-North. Disruptions in the Earth's magnetic field or that of the solar wind magnetic fields from Sunspots, solar flares or prominences will cause concomitant changes in hormones and the inability to navigate. The pigeon appears to have an 'erasable programmable memory' capable of being reset with a prolonged period of relocation.

e) The Earth's magnetic field (blue lines) varies in intensity with latitude. The solar wind (Van Allen pulse) magnetic field (black lines) varies with longitude, East to West, relative to the time of sunrise, resulting in varying amounts of the timing hormone melatonin, resulting in 'Jet-lag'.

Why Pigeons get lost; and Why the Dawn Chorus stops on June 21st [in the N.'rn hemisphere]



3.
figure 3.

The change in hormones on the summer solstice causes anxiety in migratory song birds, causing them to stop singing. Hence, the 'dawn chorus' ceases within around 7 days of the summer solstice. The birds, later, migrate and are unaffected by the winter solstice. When they return, in the spring, the dawn chorus recommences. Pigeons (and whales) navigating around that time (+/- 1 or 2 days either-side) of the summer solstice suffer the same hormonal changes causing them to lose their navigational bearings.

(summarised) from *FutureScience—forbidden science of the 21st-century*, and *The Heavenly Matchmaker—the secret science of the mind, heart, body and soul* by Maurice Cotterell