

Image: Proba-1 pyramid spotting

March 28 2018



Credit: European Space Agency

A view looking north to south of Egypt's famous Giza Pyramid Complex, as seen by ESA's Proba-1 minisatellite.

The smaller Pyramid of Menkaure is seen towards the centre of the image, with the larger Pyramid of Khafre down and left of it, with the Great Pyramid of Giza – the largest and oldest of the three – below and left of that.

Three smaller [pyramids](#) are adjacent to the Pyramid Menkaure. The Giza Plateau sits on the edge of Cairo, fringed by suburbs.

The cubic-metre Proba-1 is the first in ESA's series of satellites aimed at flight-testing new space technologies. It was launched on 22 October 2001 but is still going strong, having recently become the Agency's longest-serving Earth-observing mission.

Proba-1's main hyperspectral CHRIS imager is supplemented by this experimental High-Resolution Camera, acquiring black and white 5 m-resolution images.

Other innovations include what were then novel gallium-arsenide solar cells, the use of star trackers for gyroless attitude control, one of the first [lithium-ion batteries](#) – now the longest such item operating in orbit – and one of ESA's first ERC32 microprocessors to run Proba-1's agile computer.

Proba-1 led the way for the Sun-monitoring Proba-2 in 2009, the vegetation-tracking Proba-V in 2013 and the Proba-3 precise formation-flying mission planned for late 2020.

Provided by European Space Agency

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