



Pascale Defraigne, Royal Observatory of Belgium

Dr Pascale Defraigne is responsible for the Time and Frequency Service at the Royal Observatory of Belgium (ORB).

After earning a degree in mathematics at UCL, she completed a PhD in Geophysics, focusing on the study of convection movements inside the Earth. In 1996, she became the Head of the Time-frequency laboratory at ORB and gradually redirected her research towards this field.

Her work focuses on the study of time measurement in relation to satellite navigation systems (GPS, Galileo, etc.), always aiming for greater precision in comparing atomic clocks remotely using GNSS signals.

In recent years, she has been actively involved in the development of the Galileo system, which is primarily based on measuring the signal travel time between satellites and Earth.

In addition to her research activities, she also provides a service delivering precise time for Belgium.