Tellus Geophysical Survey:
In the Air

Roinn Cumarsáide, Gníomhaithe ar son na hAeráide & Comhshaoil
Department of Communications, Climate Action & Environment

Geological Survey
Suirbhéireacht Gheolaíochta
Ireland | Éireann
Tellus Programme | www.tellus.ie

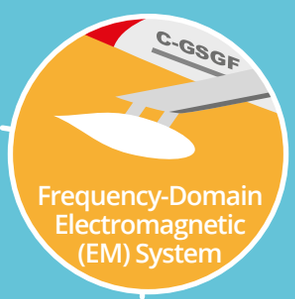
As part of the Geological Survey Ireland's Tellus mapping programme, a low flying survey aircraft operated by Sander Geophysics Ltd collects geophysical data.

The plane has collected more than 96 million geophysical measurements.

The aircraft has flown a total distance of 306,647 km as part of the Tellus programme. That's the same as flying more than 7 times around the world!

The aircraft surveys at a height of 60 metres in rural areas – about 8 times the height of a two storey house – and at 240 metres over urban areas.

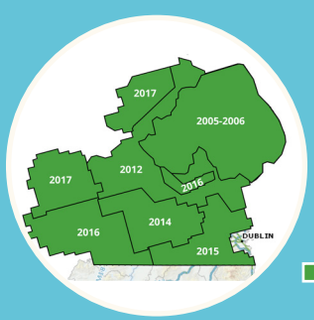
The aircraft flies at an average speed of 200 km/hr. The sound of it overhead is similar to that of a passing lorry.



Frequency-Domain Electromagnetic (EM) System

Gamma Ray Detector

The aircraft carries a range of state of the art geophysical equipment



Completed to date

Tellus has surveyed almost 5.7 million hectares of Ireland to date – with 50% of the country now officially 'mapped'.

Magnetometer

The aircraft is a de Havilland DHC-6 Twin Otter plane. The white, twin propeller has a red tail, black stripe, and bears the registration number C-GSGF. The plane is 15m long.

Data collected by the plane so far has revealed mineral exploration targets in the Midlands area, buried volcanoes and has improved radon mapping and environment management.

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Results are available free of charge at www.tellus.ie