OSNI ENHANCED DIGITAL TERRAIN MODEL

What is an Enhanced Digital Terrain Model (DTM)?

A topographical model of the bare earth consisting of breaklines and spot heights providing a highly detailed representation of the topographical variations in the Earth's surface. Breaklines represent linear features such as banks, ditches and rock faces.

PRODUCT INFORMATION

- The Enhanced DTM consists of a point file of heights, along with breaklines showing definite changes in height, giving a highly detailed representation of the Earth's surface

Key Features:

- Derived from aerial imagery using 3D software
- Major change across Northern Ireland is updated every 3 years in line with the orthophotography flying program. Essentially one-third or just under 100 tiles across Northern Ireland are updated on a annually
- 65% of the data is within +/-1.0 m accuracy
- 95% of the data is within +/-2.0 m accuracy
- 99% of the data is within +/-3.0 m accuracy

TECHNICAL SPECIFICATION

Format – DXF

Supply – Digital

Availability – 291 full sheets

Tile Size – 9.6 x 6.4 kms

Coverage – Full Northern Ireland

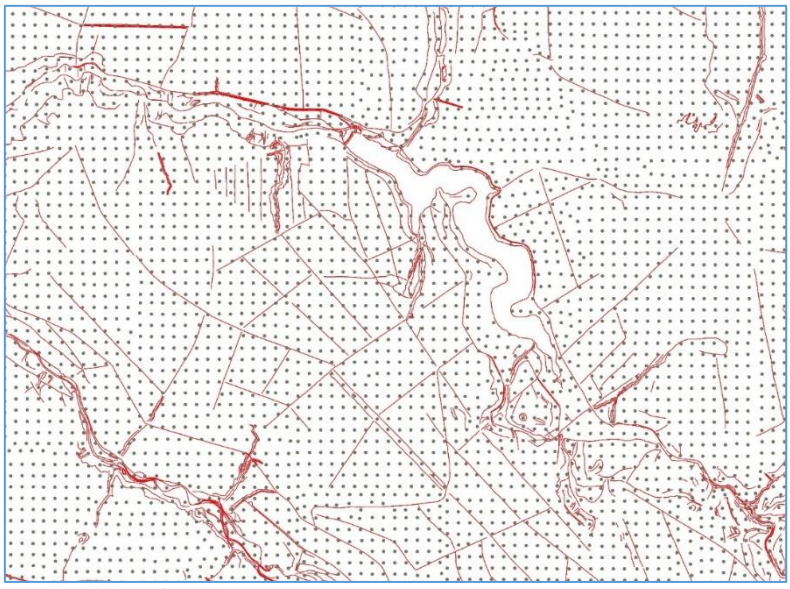
Update Frequency – Every 3 years

Resolution – 60m Spot Heights with Breaklines

Maximum file size – 81GB

Coordinate Reference System – TM75 Irish National Grid

Limitation – Within forests, accuracy will be reduced as ground height can only be estimated



Land & Property Services
Seirbhísí Talún & Maoine

ORDNANCE SURVEY OF NORTHERN IRELAND®

OSNI ENHANCED DIGITAL TERRAIN MODEL

APPLICATIONS

The height information held within these points and lines can be interrogated in most Software packages and, when draped with orthophotography or other raster datasets, can create three dimensional models.

- Environmental applications, e.g., land fill sites to determine if illegal dumping has taken place and over what time periods
- Soil erosion modelling
- Flow direction and accumulation
- Watershed delineation

Product Enquires and Feedback

mapping.helpdesk@finance-ni.gov.uk

Land & Property Services
Seirbhísí Talún & Maoine

ORDNANCE SURVEY OF NORTHERN IRELAND®