

Background

Flood Maps (NI) River/Tidal Models consists of the individual calibrated and verified models that have been used to create the **detailed** flood mapping content for the river & tidal floodplain products within Flood Maps (NI)

Purpose of the Models

Individual models within the overall dataset may be used by stakeholders (e.g. government bodies, councils, utilities, and developers) to develop options or solutions for assets / sites, where flooding is an issue

Licensing & Charging

It is anticipated that customers may require an entire model, or a model for site-specific analysis. Models are licensed and charged for on the basis of extent (length) of model deemed to be required for the customer's specific purpose. e.g. if 35% (by length) of a model is required then the customer will be licensed and charged for the relevant 35%

In such circumstances the whole model may be provided (as resources may not be available to split the model down to supply only the customer's site-specific requirements). Notwithstanding the above,

The minimum charge levied (for the purposes of site specific analysis) is 10% of the charge pertaining to the individual model

Detailed Model Coverage

The extent of the models and model metadata can be viewed within the "Detailed River Models" web app; available at : <https://arcg.is/1D0fy0>

The total length of models is around 1400km, with an average model length of around 20km

Model Format

The vast majority of the models have been created using InfoWorks ICM software. Models will be provided in ICM's proprietary transportable database format. The database version will be in accordance with the ICM version being used by Rivers Agency when licensed. Models will not be re-calibrated or re-verified before supplying.

Model Content

These 1D / 2D hydrodynamic models include rivers (open watercourses) and culverts (underground watercourses) in an integrated catchment framework.

Data included within the models:

- DTM (Digital Terrain Model) data; in urban areas the DTM is based on LiDAR data
- Topographic survey (channel cross-sections, bridges, weirs, culverts)
- Boundary Conditions (input hydrology / tidal profiles)

The models are also complemented by hydrology and model reports, which provide comprehensive information on all aspects of the specific model

Model Update Policy

There are currently no scheduled Major updates

Minor updates are unscheduled and are only actioned for specific areas where an update would significantly reduce uncertainty in the flood model output

Model Availability

For further information and to re-use models commercially, contact Land & Property Services at: digitalsupply@finance-ni.gov.uk

Companion Products

- Flood Maps (NI) Floodplain River
- Flood Maps (NI) Floodplain Tidal