

BULGARIA - Sofia Region

Iskar River Potential Flood Extent (HQ 1000)

Flood Risk Map With Land Use Analysis

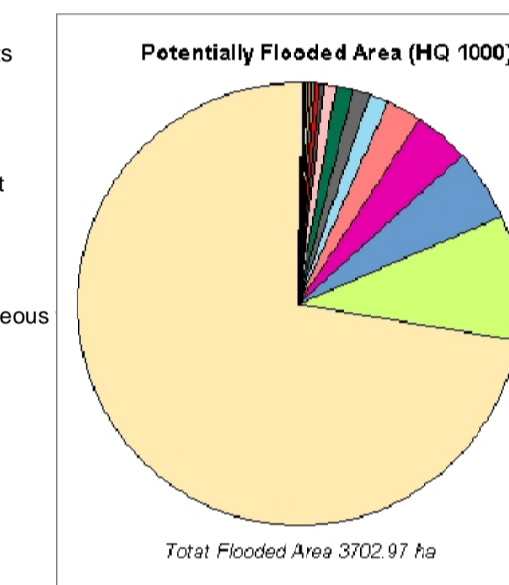
Location Diagrams



Legend

Land Use

- Continuous urban fabric (S.L. > 80%)
- Discontinuous dense urban fabric (S.L.: 50% - 80%)
- Discontinuous medium density urban fabric (S.L.: 30% - 50%)
- Discontinuous low density urban fabric (S.L.: 10% - 30%)
- Urban fabric
- Public, private units
- Forest
- Coniferous forest
- Broad leaved forest
- Mixed forest
- Green urban areas
- Shrubs and herbaceous
- Grassland
- Arable land
- Inland wetlands
- Lake
- River
- Airports
- Industrial units
- Isolated structures
- Construction sites
- Mineral extraction
- Other roads and associated land
- Railways and associated land
- Sports and leisure facilities



- ##### Hydrology
- Rivers
- ##### Flood extent HQ 1000
- Flood extent HQ 1000

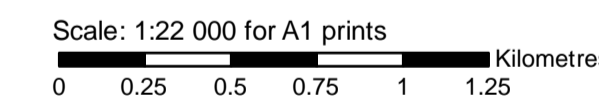
Interpretation

Flood Risk Maps represent the potential adverse consequences associated with certain flood scenarios. The map shows the flood hazard event with a low probability (HQ 1000 – extreme event) of Iskar River in Sofia Region, Bulgaria. This region is characterized by periodic flooding and it is necessary to produce flood hazard maps with probability of different scenarios. The map comprises information on flood risk zones and concerning flood extent line. Land cover information for 2005 has been used, which gives information about the type of the potentially flooded area.

Image processing: Orthorectification and Thematic classification – Erdas Imagine;
 Water Elevation Extraction Methods: - HEC-RAS
 Manual interpretation and spatial analysis - ArcGIS

Cartographic Information

Local projection: UTM Zone 35 N , Datum: WGS 84
 Geographic projection: Geographic (DMS), Datum: WGS 84



Data Sources

Vector layers
 © ReSAC 2010
 Sofia Land Cover (2005), Rivers, Lakes, Settlements

Raster layer
 © ReSAC 2010 - DEM
 © National topomaps 1:100 000
 Cross sections measurements
 © ReSAC - 2009
 Statistical information
 © NIMH/BAS - Rainfall values

Framework

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Map produced on 02nd of November 2010 by ReSAC
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