

BULGARIA - Sofia Region

Iskar River Floods 2005

Past Flood Event Map With Risk 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, and military units
- Forest
- Coniferous forest
- Broad leaved forest
- Mixed forest
- Green urban areas
- Shrubs and herbaceous vegetation
- 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

Flooded Area by Land Cover

Land Cover	Area (ha)
Arable land	1268.72
Grassland	992.8
Green urban areas	169.98
Shrubs and herbaceous vegetation	105.37
Mixed forest	9.47
Broad leaved forest	6.34
Coniferous forest	5.47
Urban fabric	3.72
Public, private, and military units	1.45
Isolated structures	0.24
Construction sites	0.21
Other roads and associated land	0.07

Flood extent for 12.08.2005

- Flooded area

Interpretation

The map shows the flood extent of Iskar River in Sofia region, Bulgaria. Land use information has been used, which gives information about the type of the flooded areas.

In 2005 there were two floods. The first flood - 6-8 June 2005 - destroyed the bridge at the station over Banevska river in the Ivanyane quarter. The second flood - 5-8 August 2005 - destroyed another bridge at the station over the Iskar river in the town of Novi Iskar.

Image processing: Orthorectification and Thematic classification - Erdas Imagine;
 Water Extraction Methods: - Unsupervised classification - Erdas Imagine;
 Manual interpretation and spatial analysis - ArcGIS

Cartographic Information

Local projection: UTM Zone 35 N, Datum: WGS 84
 Geographic projection: Geographic (DMS), Datum: WGS 84
 Scale: 1:15 000 for A1 prints

Data Sources

Vector layers
 © ReSAC - 2010
 Sofia Land Cover (2005), Rivers, Lakes, Settlements
 © National topomaps 1:100 000

Framework

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