

AGREEMENT No. KZGW/KPP/2023/58 of 18.09.2023

**REVIEW AND UPDATE OF THE PRELIMINARY FLOOD RISK ASSESSMENT IN THE 3rd
PLANNING CYCLE**

**TASK 1. VERIFICATION AND UPDATE OF THE METHODOLOGY OF THE PRELIMINARY FLOOD
RISK ASSESSMENT**

WBS No. 3W.01 EN

**METHODOLOGY FOR THE REVIEW AND UPDATE OF
PRELIMINARY FLOOD RISK ASSESSMENT
IN THE 3rd PLANNING CYCLE**

**APPENDIX 2
DESCRIPTION OF PRELIMINARY FLOOD RISK ASSESSMENT
MAPS**

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1. INTRODUCTION

PFRA maps are overview maps presenting the following thematic areas:

- a map of river basin districts showing the topography of the area and a map of river basin districts showing land use,
- a map of significant historical floods (HF according to Art. 4 b and 4 c FD),
- a map of areas where flooding is likely to occur (PF according to Art. 4 d FD),
- a map of areas of potential significant flood risk (APsFR).

2. MAP OF RIVER BASIN DISTRICTS SHOWING THE TOPOGRAPHY OF THE AREA AND MAP OF RIVERS BASIN DISTRICTS SHOWING LAND USE

The map of river basin districts was prepared as a single composition for the entire area of Poland at a scale of 1:2 500 000 and divided into individual river basin districts at a scale individually adjusted to each river basin district.

2.1. ELEMENTS THAT CONSTITUTE THE CONTENT OF THE MAP

The following elements are presented on a map of the river basin districts:

- hydrographic network;
- administrative border of Poland;
- river basin districts border;
- water regions border;
- coastal belt border;
- land cover – CLC (refers to the map of river basin districts showing land use);
- digital terrain model (refers to the map of river basin districts showing the topography of the area).

2.2. EXTRA-FRAME MAP ELEMENTS



- title of the study;
- main data frame containing the map content;
- legend;
- scale and linear scale;
- logos.

2.3. LEGEND

Maps of river basin districts showing the topography of the area.

 Rivers	 Country border
 Lakes and reservoirs	 River basin districts border
 Coastal belt border	 Water regions border

Maps of river basin districts showing land use.

Land use (CORINE Land Cover 2018)		 Rivers	 Country border
 Artificial surfaces	 Forests	 Lakes and reservoirs	 River basin districts border
 Agricultural areas	 Wetlands	 Coastal belt border	 Water regions border
 Meadows and pastures	 Waters		

3. MAP OF SIGNIFICANT HISTORICAL FLOODS

3.1. ELEMENTS THAT CONSTITUTE THE CONTENT OF THE MAP








The following elements are presented on a map of significant historical floods:

- hydrographic network;
- administrative border of Poland;
- voivodeships border;
- river basin districts border;
- water regions border;
- areas of significant historical floods;
- underlayer - land use.

3.2. EXTRA-FRAME MAP ELEMENTS

- title of the study;
- main data frame containing the map content;
- legend;
- scale and linear scale;
- logos.

3.3. LEGEND

 Significant historical floods	 Rivers	 Country border
	 Lakes and reservoirs	 Voivodeships border
		 River basin districts border
		 Water regions border

4. MAP OF AREAS WHERE FLOODING IS LIKELY TO OCCUR

4.1. ELEMENTS THAT CONSTITUTE THE CONTENT OF THE MAP

The following elements are presented on the map of areas where flooding is likely to occur:

- hydrographic network;
- administrative border of Poland;
- voivodeships border;
- river basin districts border;
- water regions border;
- areas where flooding is likely to occur;
- areas where flooding is likely to occur as a result of destruction or damage to damming structures;
- underlayer - land use.

4.2. EXTRA-FRAME MAP ELEMENTS

- title of the study;
- main data frame containing the map content;
- legend;
- scale and linear scale;

4.3. LOGOS: THE SYMBOL OF THE STATE WATER HOLDING POLISH, EUROPEAN FUNDS (UE FENIKS PROGRAMME 2021-2027), EUROPEAN UNION AND REPUBLIC OF POLAND.

LEGEND

 Areas where flooding is likely to occur	 Rivers	 Country border
 Areas where flooding is likely to occur as a result of destruction or damage to damming structures	 Lakes and reservoirs	 Voivodeships border
		 River basin districts border
		 Water regions border

5. MAP OF AREAS OF POTENTIAL SIGNIFICANT FLOOD RISK

5.1. ELEMENTS THAT CONSTITUTE THE CONTENT OF THE MAP






The following elements are presented on the map of areas of potential significant flood risk:

- hydrographic network;
- administrative border of Poland;
- voivodeships;
- river basin districts border;
- water regions border;
- areas of potential significant flood risk for rivers;
- areas of potential significant flood risk from damming structures;
- underlayer - land use.

5.2. EXTRA-FRAME MAP ELEMENTS

- title of the study;
- main data frame containing the map content;
- legend;
- scale and linear scale;
- logos.

5.3. LEGEND

 Areas of potential significant flood risk for rivers	 Rivers	 Country border
 Areas of potential significant flood risk from damming structures	 Lakes and reservoirs	 Voivodeships border
		 River basin districts border
		 Water regions border

6. NAMES, FORMATS, SCALES AND RESOLUTIONS OF PFRA MAPS FILES

Maps of significant historical floods, maps of areas where flooding is likely to occur, and APSFR maps are prepared for the entire are of Poland and separately for:

- river basin districts,
- water regions,
- voivodeships.

The file name contains the prefix "3W-12" followed by the map appendix number (from 5.1.1. to 5.5.3.16. These appendices are listed in the list of appendices to the report - Appendix 5). It is also linked to the area division presented on the map, according to the scheme below:

Type of map area division code name of a given area.extension

where:

Type of map, according to the formula:

PH – map of significant historical floods,

PP – map of areas where flooding is likely to occur,

ONNP – map of areas of potential significant flood risk;

Area division code, according to the formula:

OD – river basin district,

RW – water region,

WOJ - voivodeship,






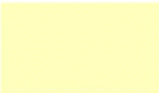







PL – for all of Poland;

In the case of seawater maps, the files were additionally marked with the letter 'M'. Example of the file name of the map of areas of potential significant flood risk for the Lower Vistula Water Region: 3W-12 Za15.5.2.11 ONNP RW DW.pdf.












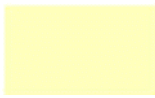





Maps are prepared in *.pdf format in A3 sheets with a resolution of 400 dpi in RGB colour palette, with JPEG compression with a compression parameter of 85, at a scale appropriate to the map content:

- maps for river basin districts on a scale of 1: 100 000 - 1:2 000 000,
- maps for water regions on a scale of 1: 90,000 - 1:1,350,000,
- maps for voivodeships on a scale of 1: 450,000 - 1:925,000,
- maps for the entire Poland on a scale of 1: 2,500,000.

7. LIST OF SYMBOLS USED ON PFRA MAPS

Symbol	Explanation of the symbol in Polish
Title of the map of river basin districts according to art. 4.2a FD	PRELIMINARY FLOOD RISK ASSESSMENT Map of river basin districts showing the topography of the area or Map of river basin districts showing land use
	Country border
	Coastal belt border
	River basin districts border
	Water regions border
	Rivers
	Lakes and reservoirs
	Artificial surfaces
	Agricultural areas
	Forests
	Meadows and pastures
	Wetlands
Title of the map of HF according to art. 4b and 4c FD	PRELIMINARY FLOOD RISK ASSESSMENT Map of significant historical floods
	Country border
	Voivodeships border
	River basin districts border
	Water regions border
	Rivers

Symbol	Explanation of the symbol in Polish
	Lakes and reservoirs
	Artificial surfaces
	Agricultural areas
	Forests
	Meadows and pastures
	Wetlands
	Fluvial flood (A11)
Title of the map of PF according to art. 4d FD	PRELIMINARY FLOOD RISK ASSESSMENT Map of areas where flooding is likely to occur
	Country border
	Voivodeships border
	River basin districts border
	Water regions border
	Rivers
	Lakes and reservoirs
	Artificial surfaces
	Agricultural areas
	Forests

Symbol	Explanation of the symbol in Polish
	Meadows and pastures
	Wetlands
	Fluvial flood (A11)
	Flood from artificial water-bearing infrastructure (A15)
Title of the APSFR map	PRELIMINARY FLOOD RISK ASSESSMENT Map of areas of potential significant flood risk
	Country border
	Voivodeships border
	River basin districts border
	Water regions border
	Rivers
	Lakes and reservoirs
	Artificial surfaces
	Agricultural areas
	Forests
	Meadows and pastures
	Wetlands
	Areas of potential significant flood risk from rivers
	Areas of potential significant flood risk from damming structures

