

# Technical issues concerning EBM and ERM

Krystallo Grammenou and  
Alexander Reichelt, BKG



## EG Producer Meeting, online, 22<sup>nd</sup> / 23<sup>rd</sup> September 2020

# Agenda

- Transnational watercourse features
- Fictitious axes
- Modelling of named locations
- Problems with named locations
- Handling of missing attribute values
- Update of ERM Specification



# Transnational watercourse features

- Transnational watercourse features = Line or polygon watercourses (WatrcrsL, WatrcrsA/LakeresA) that cross the International Boundary
- Creation of HYDRO-ID with centralized ID service in the Production Management System to avoid duplication:
  - Features which cross countries within one ERM region: Regional Coordinator
  - Features which cross ERM regions: Production Management Team at BKG
  - Namespace of this feature starts with “E.EG.”
- Transnational watercourse are features which are not marked as such at the moment:  
Please mark them and start with watercourses that have a name



EBM, ERM and EGM Production Management System

**ID-Generator.** centrally organized and generated unique ID's

Thematic or Inspire

Thematic

Country (choose EG for european tasks):

EG

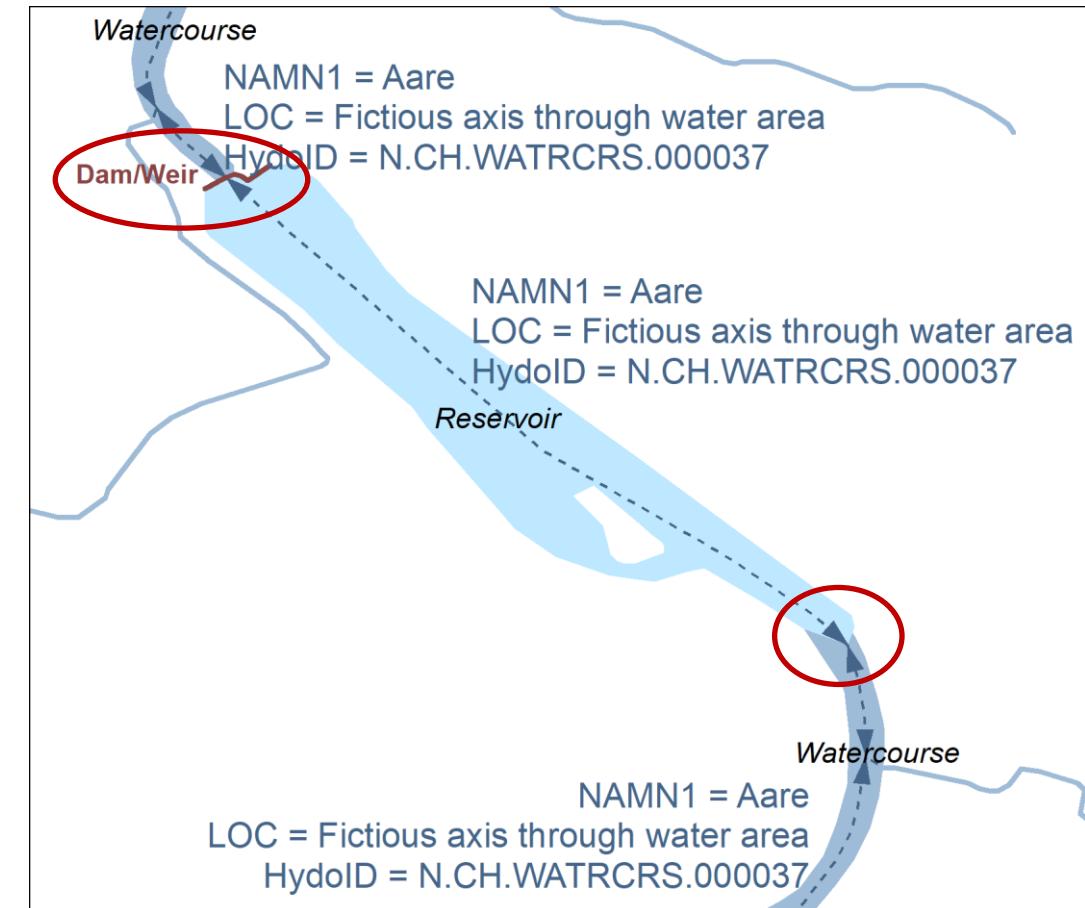
Product:

ERM

# Fictitious axes

- Fictitious axes have to be split
  - At dams
  - In case of changes in type of the watercourse (WatrcrsA/LakeresA)

→ Topological rule: (H080)  
Fictitious axes are well inside water area

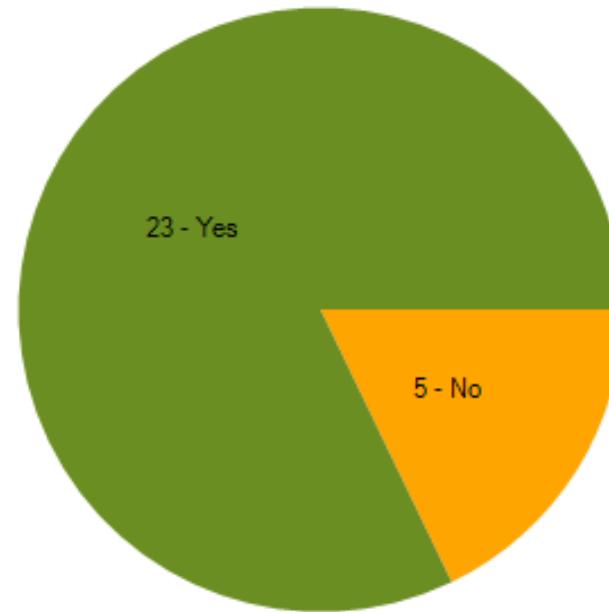


# Modelling of named locations

- GNameL had to be created from GNameT with an ArcGIS Geoprocessing tool
- This tool doesn't work properly with ArcGIS 10
  - we can't create GNameL
- GNameT is an Annotation Feature Class, which is an ESRI format
  - only ArcGIS can display it

# Modelling of named locations

- Poll, question 5: Would it be possible for you to update the line feature class GNameL instead of the annotation feature class GNameT?



answers with No:

DE  
FR  
PL  
ND  
SE

# Modelling of named locations

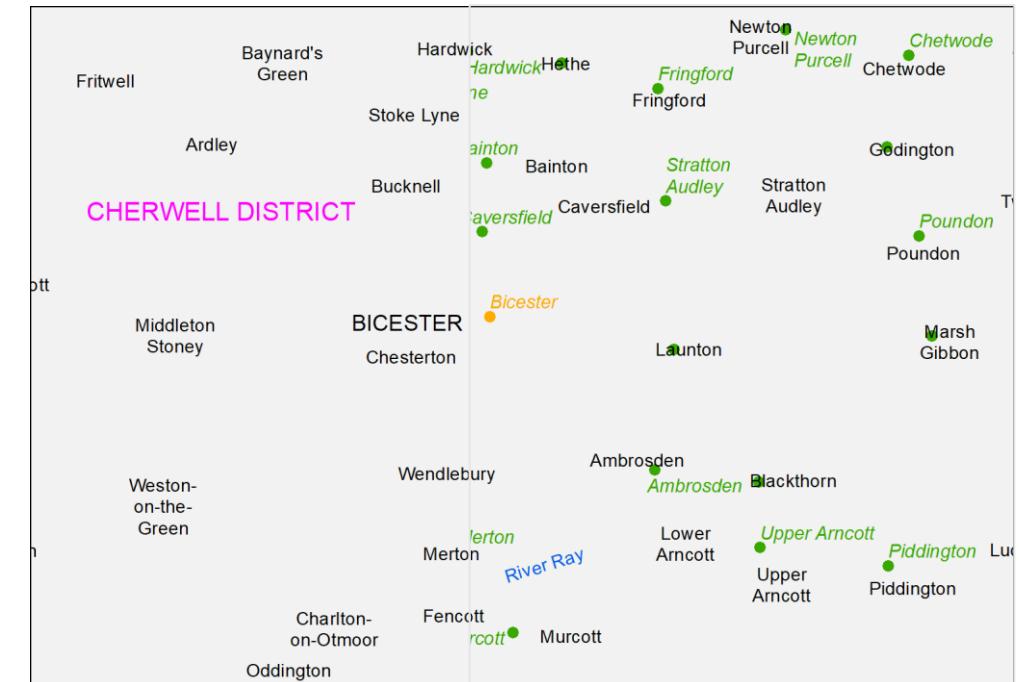
- As a result, we will only use GNameL feature class for named locations  
→ you don't need to deliver GNameT any more!
- PMT will ask the countries which answered „no“ how we will deal with updating

# Problems with named locations

## ■ Examples



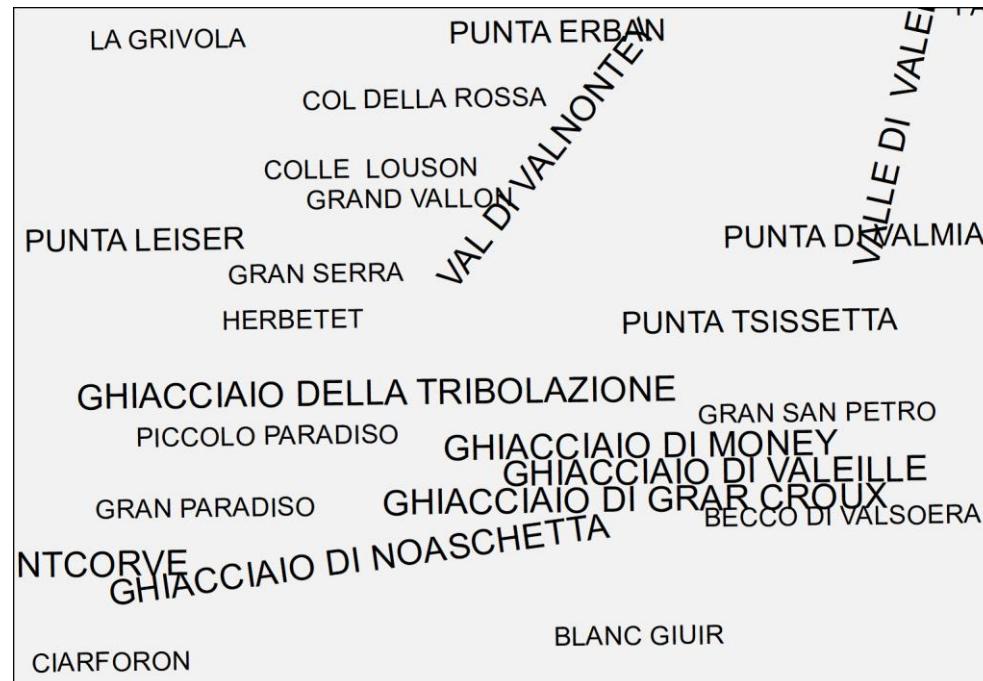
Mountain range, peaks with heights ☺  
Different colour of peaks ☺



Settlements with names  
which are also available in BuiltupP  
(orange and green in the example) ☹

# Problems with named locations

- Examples



Labelling not suitable for maps ☹

# Handling of missing attribute values

- Missing attribute values:
  - If information is missing for any reason then the value will be UNK or -32768
  - Easy to understand for Data Producers and Users
  - Simplification of validation

Attribute type	<ul style="list-style-type: none"><li>- Information cannot be applied</li><li>- Information is missing</li><li>- Information exists but has not been collected</li><li>- Information doesn't exist</li></ul>
Text	UNK
Integer	-32768

# Update of ERM Specification

- The ERM specification is on overhaul to
  - have the same structure like the EBM specification
  - get rid of the “User guide” -> all relevant information for the consumer is in the specification, metadata or lineage information
  - avoid duplicate statements

**EG Producer Meeting, online, 22<sup>nd</sup> / 23<sup>rd</sup> September 2020**

**Thank you for your attention**

Contact:

Krystallo Grammenou and Alexander Reichelt  
Federal Agency for Cartography and Geodesy  
Richard-Strauss-Allee 11  
60598 Frankfurt am Main / Germany

Email: [ebrm@bkg.bund.de](mailto:ebrm@bkg.bund.de)

