

S-100WG

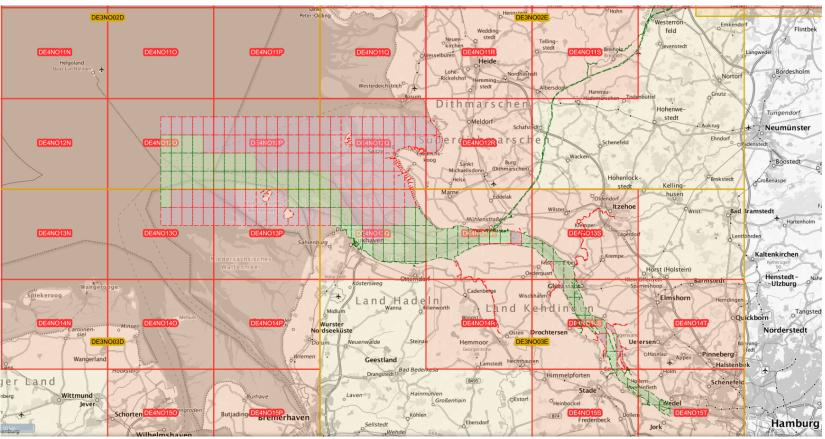
Storing feature oriented discrete coverage in HDF5



BSH Product Scheme

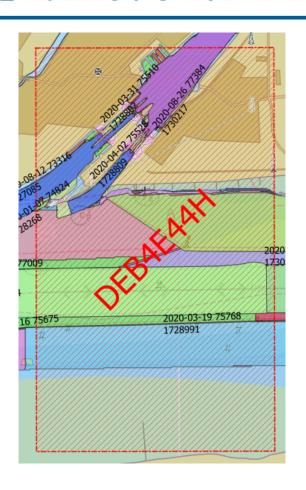


HYDROGRAPHIE



bENC / S-102 - Product

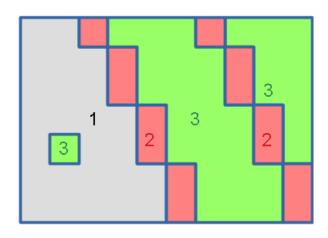




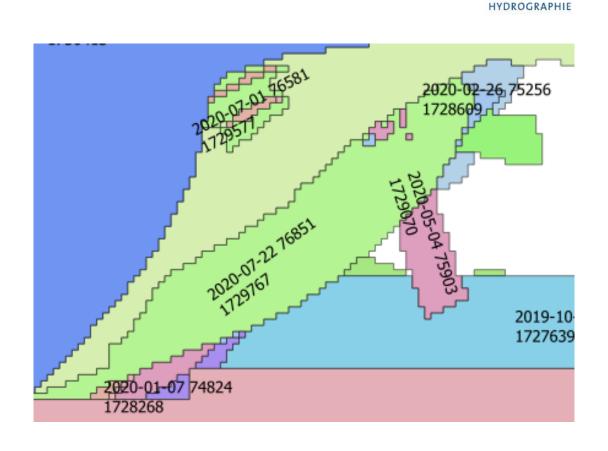
- Multiple Surveys in one product cell (blended/merged to one coverage)
- Information for each survey needed
 - e.g. survey date
- Link to our data source is required







- area geometry
 feature ID and attributes
 - Data consistency
 - Potential source of errors
 - Data size
 - Complexity of the GML







1	1	2	3	3	3	2	3	3	3
1	1	1	2	3	3	3	2	3	3
1	1	1	2	3	3	3	2	3	3
1	1	1	1	2	3	3	3	2	3
1	3	1	1	2	3	3	3	2	3
1	1	1	1	1	2	3	3	3	2
1	1	1	1	1	2	3	3	3	2

grid cell / node with feature ID

- Part 3 an Part 8 describes this mechanism, but we found no implementation in Part 10c
- using a separate regular grid within the HDF5 file
- grid cell/node contains feature ID
- attribute table links the attribute values with the feature ID

feature ID	attribute_1	attribute_2	attribute_3
1	17	5.3	text value A
2	6	14.7	text value B
3	10	5.3	text value C

HDF5 vs. GML

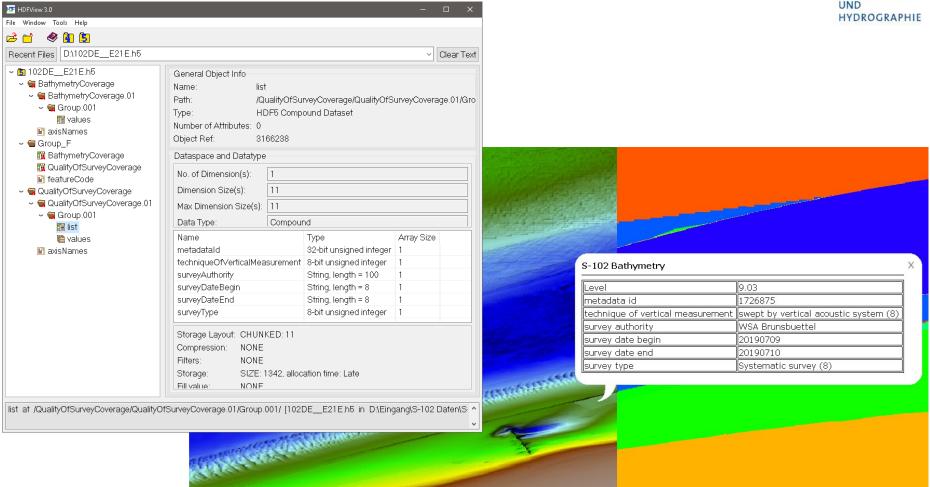


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	HDF 5	GML	
Description S-100 Part 10c	×	×	
Data consistency		×	
Geometry complexity		×	
File size (growth total / %)	65 kByte / 2.1%	547 kByte / 17.9%	

Extension in HDF5





Actions required



- Endorse the extension
- Review S-100 Part 3 & Part 8
- Review S-100 Part 10c
 - Add new DataCodingFormat
 - Add attribute table as CompoundDataSet
- Identify any issues regarding this paper

Thank you!



UND HYDROGRAPHIE

