

Workgroup - Digital Technologies in Cartographic Heritage – 1<sup>st</sup> workshop/1<sup>st</sup> meeting

Autor	Keywords by the authors	Short interpretation of content
Zentai		General statement for archiving/saving of digital content and digital map applications.
Bandrova		Digitalisation of old maps in Bulgaria. (digitalisation as conservation???)
Beconyte	historical, maps, cartography, cartographic heritage, geographic information infrastructure	Historical maps of Lithuania; (their level of detail, accuracy and informativeness of entire cartographic image).
Fleet	series mapping, Internet accessibility, web-mapping, usability	Digital tools and requirements for accessing series mapping; some kind of access to historic maps.
Jessop	Cartographic heritage; teaching and learning; history; cultural heritage; digital resources; the Web	Delivering cartographic heritage within web-based digital resources (using 3 case studies);
Reyes Nunez		The presentation of "History of Maps" by using a website;
Drakoulis	Late antique cartography; web cartography; <i>Tabula Peutingeriana</i>	The iconographic system of Tabula Peutingeriana;
Lovison-Golob		The digitalisation and cataloging approaches of "Afroterra" project;
Kowal	digital exhibits maps atlases 3-d virtual technology	Visual access via 3D technology to book/atlas images;
Jenny	History of cartography, planimetric accuracy, cartometry, MapAnalyst, distortion grid	The software MapAnalyst in use for planimetric analysis and visualisation of historic maps;
Daniil	Cartographic heritage, History of maps, 17th century cartography, J. Laurenberg, O. Dapper, J. van Meur, North Aegean, digital map comparison, digital transparency	Direct map comparison with digital use of transparency and filter algorithms;
Livieratos, Koussoulakou	Cartography and Art; Johannes Vermeer; image processing; map comparison; cartographic deformations; cartographic animation; cartographic heritage	Maps in paintings; fitting and direct comparison of map in painting with originals;
Gaspar	late medieval and renaissance nautical charts; cartometric analysis of maps; history of cartography; navigational methods of the discoveries period; map projections of old charts	An investigation on nautical charts of 15 <sup>th</sup> and 16 <sup>th</sup> century and if these were based on cartometric projections.
Jobst		Definition of cartographic heritage, its consideration on sustainability and study of digital/hybrid reproduction techniques;
Rystedt		The history of cartographic heritage in Sweden and the creation of the digital archive.
Fernandez-Wytenbach	Cartography, Visualization, Metadata, Internet, History, Heritage, Catalog, Web Map Service	Making historical maps of Canary Islands with WMS map-services accessible;
De Gennaro	Aerial photos; digital archives; WebGIS	Making aerial photos of region Veneto in Northern Italy accessible with WMS map-services;
Tsioukas	Cartographic heritage, digitization of old maps, non-contact 1:1 digitization, harmless digitization, close range photogrammetry	Non-contact mosaic reproduction of historic maps using low-cost cameras;
Guerra	digital maps; map comparison; texturized dtm	Interpretation of historic maps with the help of DTM and 3D information;
Brumana		3D orthophoto creation of mosaic in basilica San Marco, Venice;
Davie	Beirut, Russian maps, GIS, 3D visualization, cityscape	3D reconstruction of Beirut and verification by historical maps;
Achille		Georeferencing of historical maps and usage of content;
Visintini		Creation of 3D city model with actual photogrammetric techniques and furtheron comparison/combination with historical maps;
Van den Heuvel	theory of cartography, historical methods, modeling of history, history of cartography	The combination of various historical maps by means of content semantic and thus its historical evidence;
Benavides	Historical maps, reliability, geo-processing, feature interpretation, historical evidence, accuracy	The difference of paper and digital map by historical semantic; Investigation on technical accuracy of historic maps of 17 <sup>th</sup> century by an example of the historical city Zwolle;
Koster	History of Cartography, mark-up languages, historical methods, computing	Using XML format/structure for defining annotations as interpretation tool in historic maps; some kind of focus on historical accuracy;

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Wolodtschenko Balletti	Historic maps, georeferencing, geometric transformations, DTM, modelling	Prehistoric maps and "cartosemiotic"; Georeferencing, extraction of historic map content and 3D (animation) as resulting presentation form;
Boutoura	Generalkarte; late 19th and early 20th century cartography; cartographic heritage; cartographic relief; relief shading; digital relief comparison	An comparative altimetric study and relief evaluation of old maps with respect to older or newer counterparts;
Ploutoglou	History of cartography; History of isolarii; Bordone isolario; Cartographic heritage; Aegean Archipelago mapping	Study on using the cartographic content of the book "isolario" from 15 <sup>th</sup> century;
Livieratos, Tzorlini	Ptolemy's <i>Geographia</i> ; Ptolemy's coordinates; Ptolemy maps; History of maps; map comparison; cartometry; optimal fitting	Computational methodology to test consistency of coordinates within various historic maps/tabulae (list of coordinates);
Manoledakis	Ptolemy's <i>Geographia</i> ; ancient Macedonia; ancient Aegae; Ptolemy's coordinates	The use of historic coordinates (Ptolemy's <i>Geographica</i> ) in order to detect described regions (first capital of ancient Macedonia);
Wolodtschenko, Forner		Conception of CD atlas containing prehistoric and early historic maps of Europe;
Heere	historical cartography, property maps, GIS, map use, users research	A historic use of property maps with the help of GIS;
Orciani	Gregoriano Cadastre, main maps, reduced size maps, property registers, historical landscape, prospective views simulation	The transformation of Gregorian cadastre to GIS and its use for historical/socioeconomical analysis;
Pearson	Tithe maps; agricultural history; GIS; multilevel modelling; georeferencing	Digitalisation and georeferencing of historic maps; Using geographic and economic information of the Tithe survey in England and Wales;

<b>Result/Summary of</b>	<b>Keywords</b>	<b>Content</b>
	cartographic heritage, cultural heritage, cartography, historical maps, geographic information infrastructure, series mapping, web-mapping, usability, education, digital resources, digital archives, atlases, 3D/virtuality, visualisation, metadata, cataloging, WMS services, Web-GIS, planimetric accuracy/cartometry cartometric analysis, reliability, geometric transformations, map comparison, cartographic deformations, cartographic animation, map projections, (harmless) digitalisation, close range photogrammetry, digital terrain models, feature interpretation, historical evidence, property maps/users research, historical landscape, agricultural history,	definition and responsibility of cartographic heritage, sustainability considerations, digital/hybrid reproduction techniques, archiving (saving) digital content, digitalisation of old maps, usage of historical maps, information load of historical maps (informativeness), content analysis of historical maps (also using DTM and 3D information), verification with the help of historical maps, cartometric analysis of historical maps, accuracy of historical maps and tabulae, georeferencing of historical maps, cataloging approaches, accessibility of historical maps, web-based resources for cartographic heritage (WMS services), web-based GIS analysis of historical maps, VR - based technologies for accessing content of historical maps, map comparison, XML format/structure in use as interpretation tool in historic maps, dissemination techniques for historical maps (WWW, CD-Rom, ...),

The collection/summary of interpreted contents may give an detailed overview of working issues for the working group "digital technologies in cartographic heritage", which are already approved by the papers of the 1<sup>st</sup> meeting in Thessaloniki.