

Sedimentary environment of Hwajinpo lake using diatom analysis

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Lake Hwajinpo is located on the eastern coast of Korea, Gosung-gun, Gangwon-do. This study reconstructed sedimentary environment of Hwajinpo and its surroundings and presumed sea-level changes during the Holocene using radiocarbon dating and diatom analysis from core samples. The undisturbed core samples were taken at the inner lake and the outer lake of Lake Hwajinpo, named HJP01 and HJP02 respectively.

HJP01 is located at the delta margin by the tributary sedimentation. The numbers of freshwater and freshwater-brackish water species was increased gradually from the bottom to upper of the core, according to the expansion of the delta. The relative marine regression, the environmental change from high salinity environment (marine – brackish water) to low salinity (freshwater) was observed in the core.

In contrast to HJP01 site, HJP02 site is affected by the sea-level change directly. According to the result of diatom analysis, the brackish lagoon environment was formed surrounding ca. 4,000yrBP. However, the relative marine regression started since about 3,200yrBP because the number of marine and brackish water species reduced gradually. After then the lake environment was presumably disappeared and the HJP02 site was completely dried up since 2,500yrBP through 1,450yrBP, because the diatom frequency of this period became very poor. Since 1,450yrBP, HJP02 recovered aquatic environment, however it was separated from lake water from Lake Hwajinpo by the coastal ridge along the lake, and has continuously deposited peat bogs till now.

I just can't put my finger on it! Understanding coastal lagoon systems from remotely sensed data - A case-study comparison from Denmark and Argentina

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"You can only discover what you have already imagined"

(Gastón Bachelard)

Quote seen in "Museum of Man and the Sea", Puerto Madryn, Argentina

How much geomorphology and process understanding can we get out of SRTM and Landsat data when it comes to coastal lagoon systems? Holocene sea-level fluctuations shaped the world's coastlines as we know them today. Sediments and surface morphology tell and conserve a part of these developments on accreting coasts and in marginal marine environments, like lagoons or marshes. Most modern coastal lagoons formed in embayments after the rapid post-glacial sea-level rise stabilized in the mid Holocene and barrier spits and beach ridges started to develop.

In the BRIDGES project (2011-2014) we attempt to reconstruct coastal evolution and sea-level history for a Danish site from lagoon sediments and associated beach ridges in an environment of Holocene relative sea-level drop.

In Denmark, high-resolution digital elevation models (DEM) are available for this purpose as are orthophotos and maps with an overall high temporal coverage. This allows a fine-tuned GIS-based interpretation of landforms, coastal dynamics and the processes that create them, even before setting foot out of the door.

We compare this situation with a similar case from Argentina where our interpretation of the evolution of a mesoscale lagoon system is primarily dependent on readily-available low-resolution geospatial data. We present the results from an SRTM- and Landsat-based mapping of inter- and supratidal environments, barrier systems, cliffs and dune fields, which we complement with an on-site correction and GPS survey data. This allows us to quantify our error and touch upon the potential of these datasets for primary site assessment in geomorphology, lagoonal research, and sea-level studies.

Characteristics of loam deposits as indicators of their sedimentary environment in the Late Glacial, example from Nowy Targ-Orava Basin, southern Poland

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This project aims to determine the origin of the 2 m thick loamy deposits underlying peatbogs in the intramontane Nowy Targ-Orava Basin, southern Poland. Relatively unpermeable, these deposits allowed the development of the largest and most valuable natural peatland complex in southern Poland, protected as Natura 2000 area. Since the oldest peat deposits were dated at 8960 ± 80 years BP, the underlying loams must have been deposited under the periglacial conditions that typified the area in the Late Glacial. This study focuses on the detailed analysis of textural and structural characteristics of the loams to determine their origin and aid reconstruction of the environmental conditions that existed in the basin before the onset of peatbog formation. Earlier hypotheses assumed these are allochthonic deposits associated with long-distance aeolian transport. Although macroscopic analysis of loam profiles suggested a uniform structure, microscopic analysis revealed the presence of varied material. Grain-size distribution of the loams and characteristics of quartz grains (roundness and surface matting) were analyzed in 30 samples to infer about general transport conditions and its duration. The abundance of broken, new and non-rounded quartz grains, a result of the destruction of larger grains, excludes long-distance or prolonged transport by wind assumed earlier. Some quartz grains within the loam samples are typical of flysch sandstones occurring in the periphery of the basin, which suggests weathering origin and local transport. On the other hand, the presence of shiny, rounded grains may be associated with fluvial deposition by sediment-laden rivers flowing from the Tatra Mountains into the foreland depression of the Nowy Targ-Orava Basin. The results are preliminary, however, this variability of the loam deposits suggests their origin may be polygenetic.

Hydric properties of carbonates accumulation horizons in Chalky Champagne (NE of Paris Basin, France)

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In Chalky Champagne, discontinuous carbonate accumulation horizons may affect the top of a quaternary cryoturbated paleosol. They mainly seem originated from polyphased pedogenesis. Observations of microscopic neoformed needle shaped calcite also suggest a biological origin related to the presence of fungal.

Even if the assumptions concerning their genesis become clearer over time, many questions still remain about these Chalky Champagne carbonate horizons and especially with regard to the consequences they can have on water transfers.

In order to highlight the potential impact of these pedogenic horizons on soil water transfers, different methods usually employed in the laboratory to characterize natural and artificial building materials (water and mercury porosimetry, capillary absorption and drying) were adapted to study three vertical profiles of a site with carbonate accumulation horizons. Infiltrometry measurements performed on the field permit to verify that results obtained in the laboratory have significance with hydric compartment into the profiles.

Results showed that carbonate accumulation horizon do not be likely to slow water transfers contrary to what is generally proposed in the literature.

Application of terrestrial digital photography and free computer software in generating digital terrain models and geomorphological analysis

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Dissemination of digital photography in the twenty-first century significantly facilitated geomorphological documentation. Nowadays terrestrial digital photography does not have to be used only to illustrate geomorphologic forms and processes. There are some free computer applications allowing the generation of a cloud of points from a set of non-metric photos without the need for knowledge of photogrammetry. Point cloud can then be used for generating digital surface models including digital terrain models. The accuracy of such a model is naturally not as high as in terrain models obtained with for example Terrestrial Laser Scanning. On the other hand, method of creating digital terrain models on the basis of terrestrial digital photography is distinguished by lower costs, higher simplicity and higher rate of generation than other more popular methods.

The research aimed to evaluate the capabilities of using terrestrial digital photography in geomorphological studies as exemplified by the studies in Polish Carpathians. During the field work in the Gubalowskie Foothills and the Beskid Wyspowy Mountains photographs of natural and anthropogenic landforms were taken. Then, there were generated digital models of landslides, stream channels and quarries on the basis of photographs. There were analyzed landforms of various sizes, shapes and land cover types. There were applied two free computer applications for terrain modeling: Microsoft Photosynth and Autodesk 123D. Examples of the application of created models in morphometric analysis and geomorphological mapping were carried out with GIS and CAD software.

The results of the research indicate that digital terrain models generated on the basis of terrestrial digital photography can be useful in geomorphological analysis, especially when top accuracy is not demanded. Application of this method of generating digital terrain models is particularly relevant for the study of relatively small areas and individual landforms.

Research on the relationship between alluvial fans and the mountain uplift in Northwestern China based on GIS technique

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In recent years, more and more technology was applied to the study of geomorphology. In this paper, the geomorphological features of the alluvial fans in Northeast margin of the Tibetan Plateau have been analyzed with RS, GIS and etc. Based on the tectonics and geomorphological features, we found that the Helan Mountain underwent a strong tectonic activity in Eocene, the mountain uplifted and the Yinchuan Basin sank. As the closer to the fault, the more obviously the mountain uplifted, the uplifting in western sector was weaker than the eastern one. Alluvial fans at Helan Mountain have larger size, bigger width to length ratio, and bigger fan angle than others, also, the fan slopes are steeper, and the feet of the mountain are more bending. As to Luoshan Mountain, the research shows that in the Quaternary, Luoshan Mountain, where there is no basin in front of, uplifted intensively, alluvial fans at Luoshan Mountain have steep slopes and small width to length ratio. The feet of the mountain are straighter relatively. Research on alluvial fans at basins reveals how alluvial fans are affected by faulted basins, with statistical analysis methods, it is found that the more the Piedmont Basin sinks, the bigger the radio of catchment area to the fan area is, the more obviously the fan cross-section bends, and the larger the width to length radio the fan has. Besides, the later uplift is, the straighter the foot of the mountain results. and the spacing of the ravine and the width of the fan is shorter than others. The geomorphologic features of the fan are influenced by both tectonic uplifting and isostatic uplifting of the mountain: the more intense tectonic activity is, the steeper the slope of the fan is, the smaller the fan area exhibits. At the end of the isosatic uplifting, the height difference will be stable, the area increase seldom by the increased catchment areas. With the fan area increase, a new alluvial fan form in the direction away from the mountain.

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