

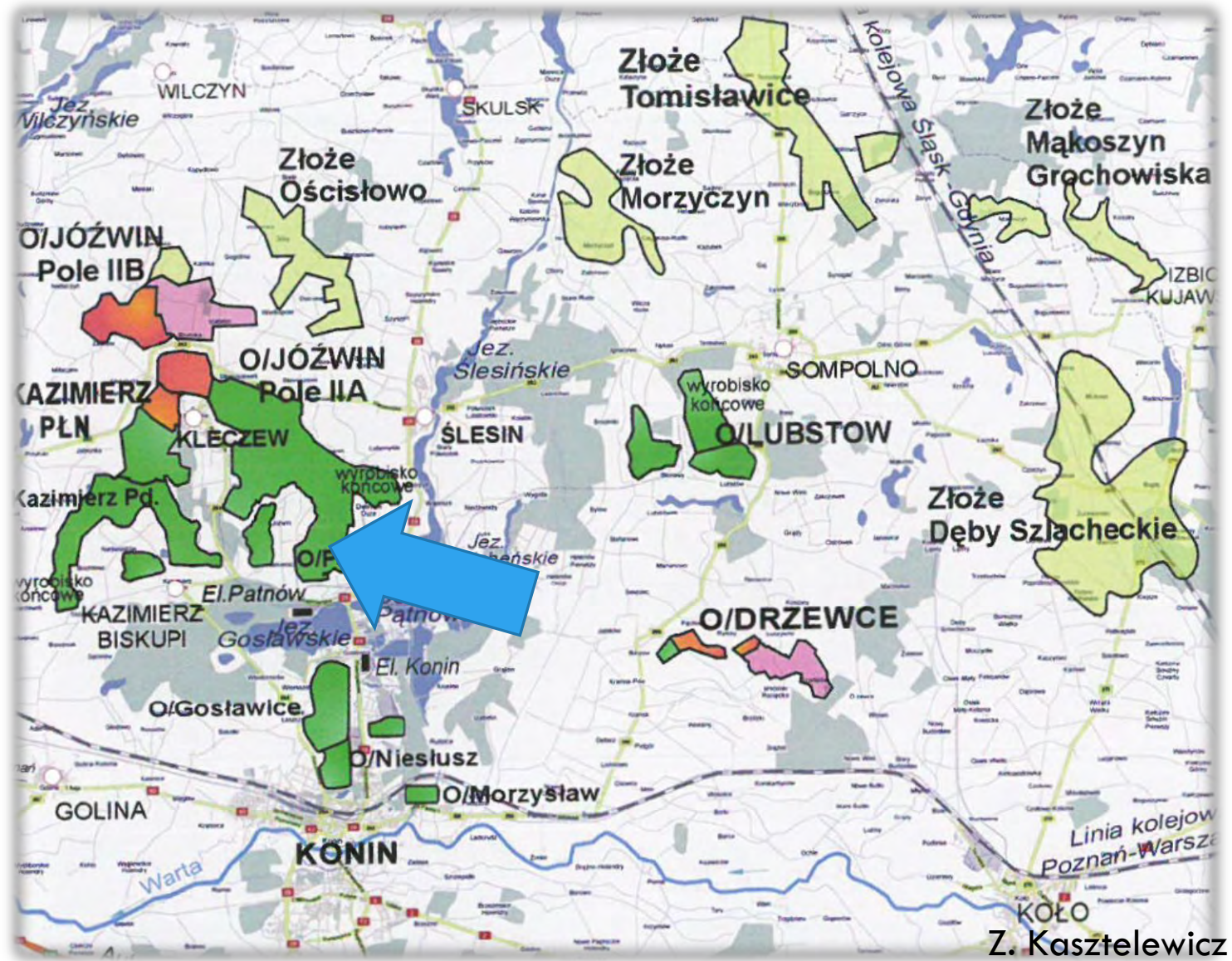
GEOMETRIC CHANGES OCCURRING IN THE FINAL PITS OF LIGNITE MINES WHILE FLOODING THEM TO FORM PIT LAKES

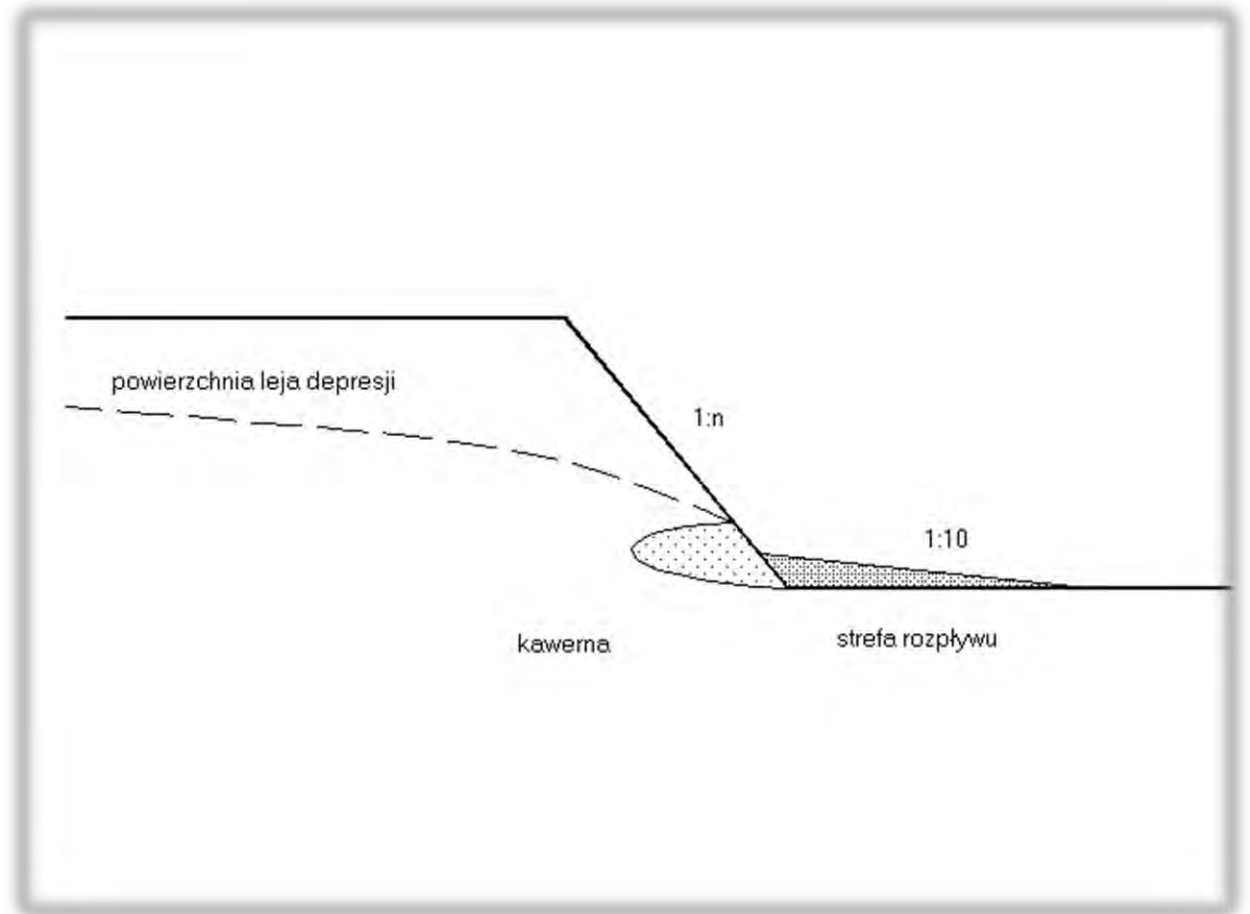
ADAM BAJCAR





PĄTNÓW OPEN PIT





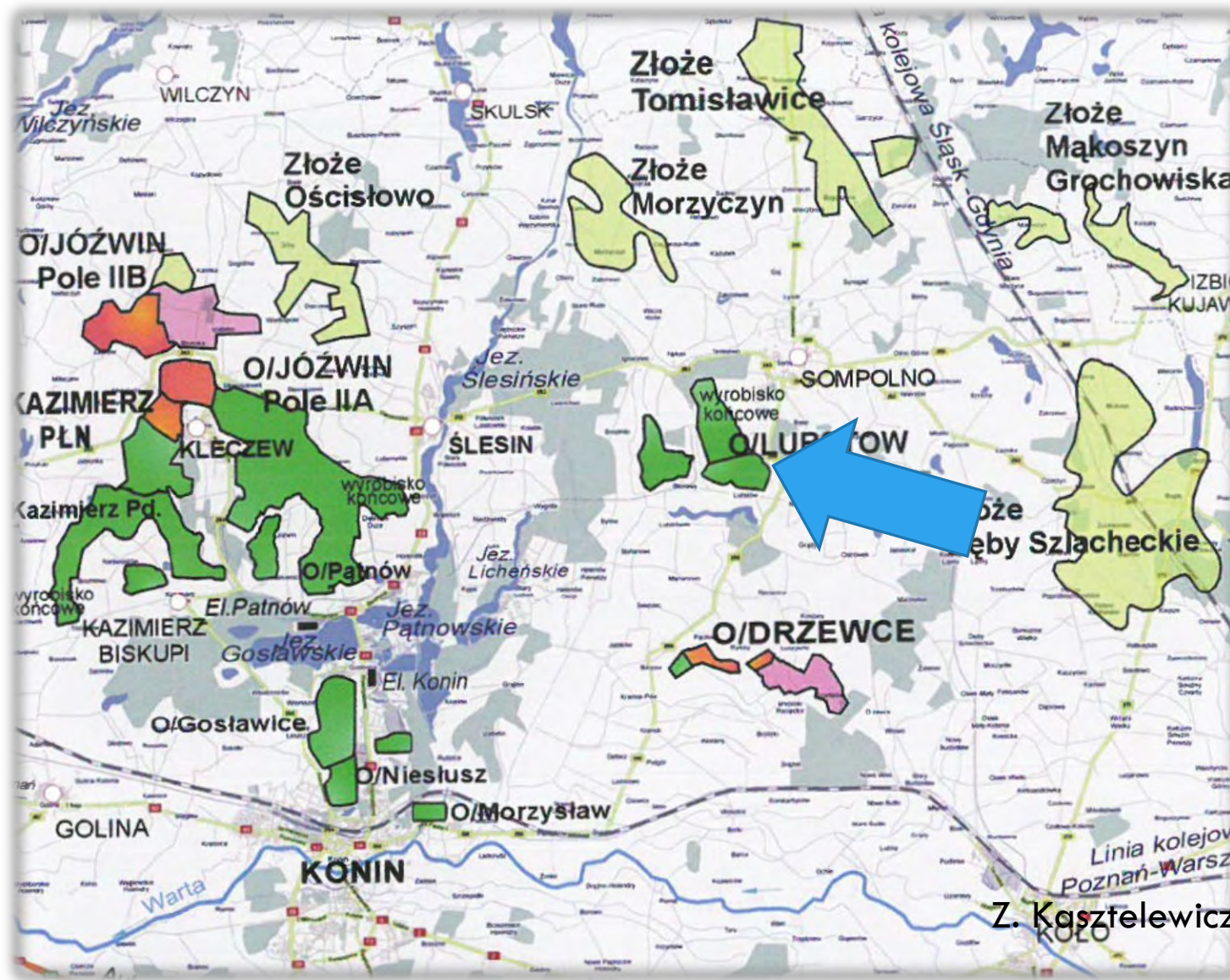


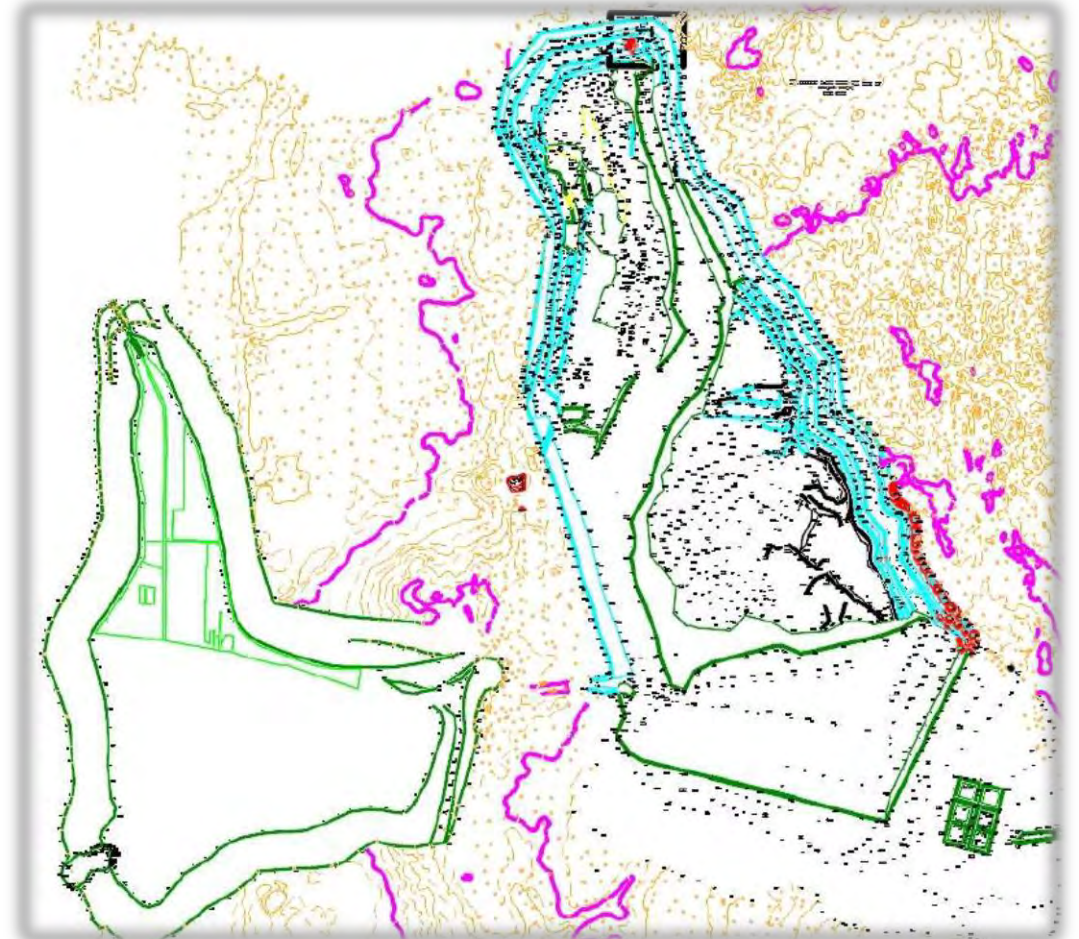


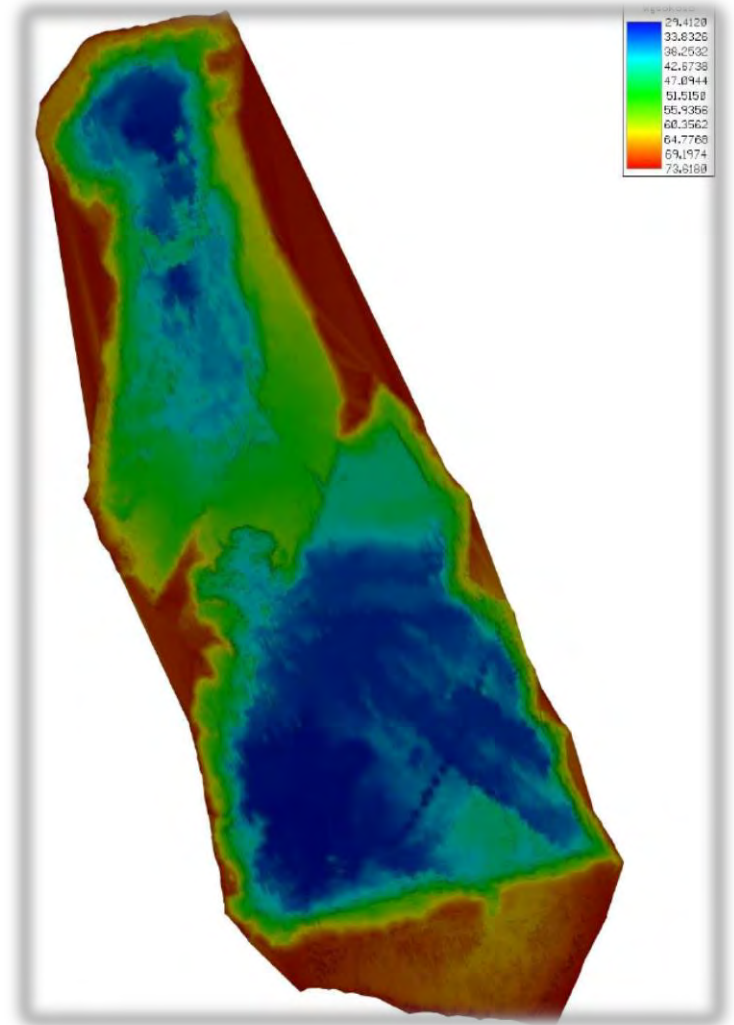
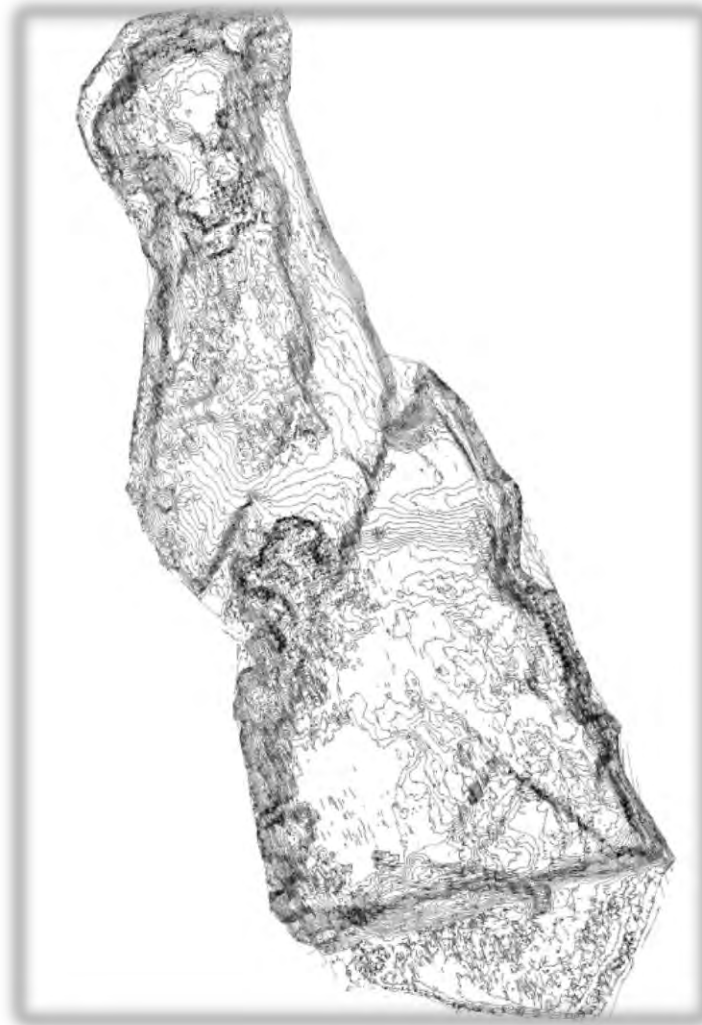
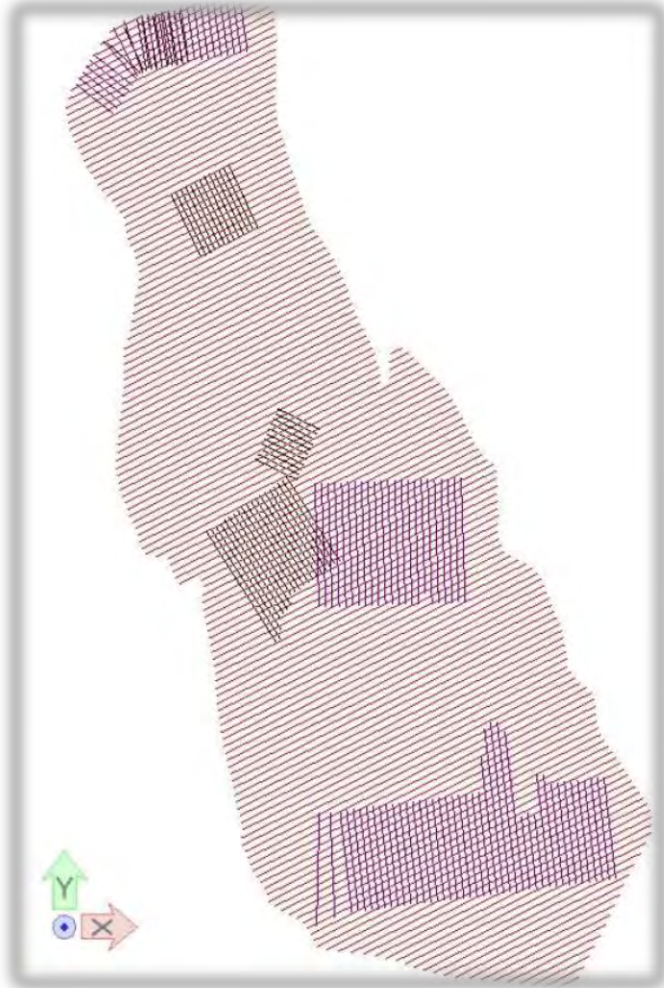
PAŃNÓW OPEN PIT

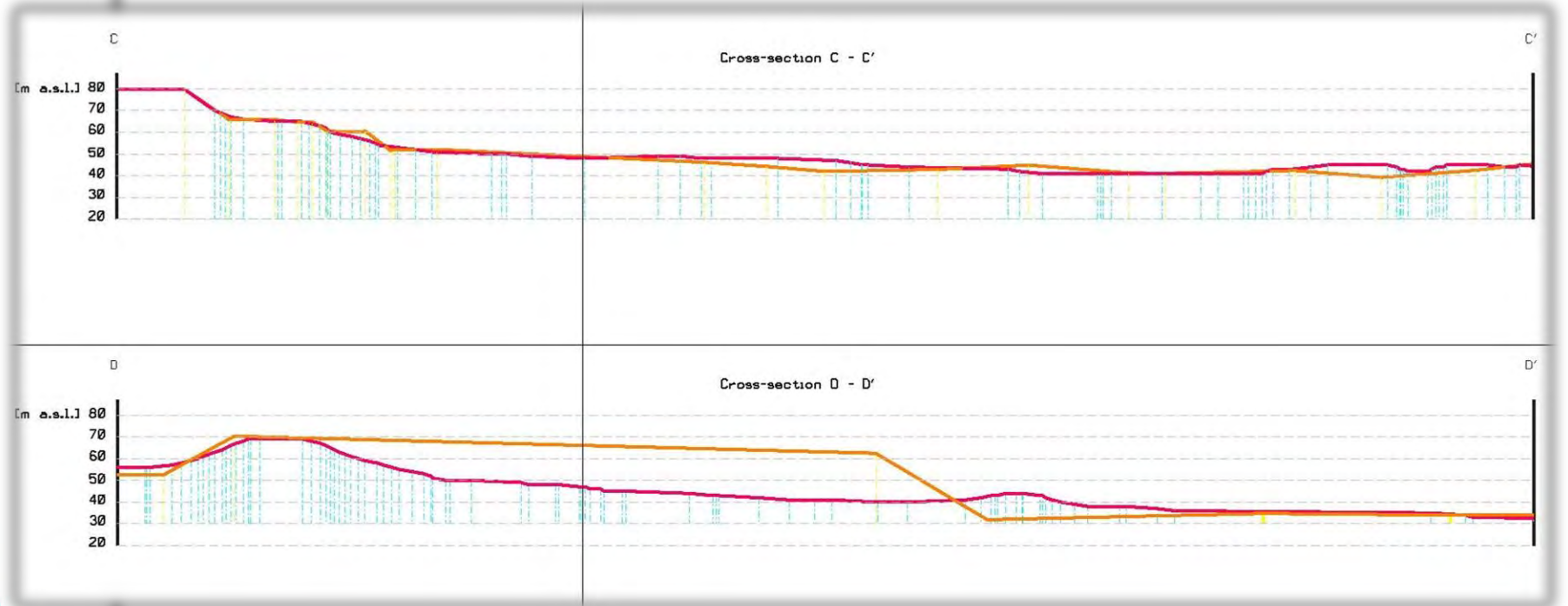
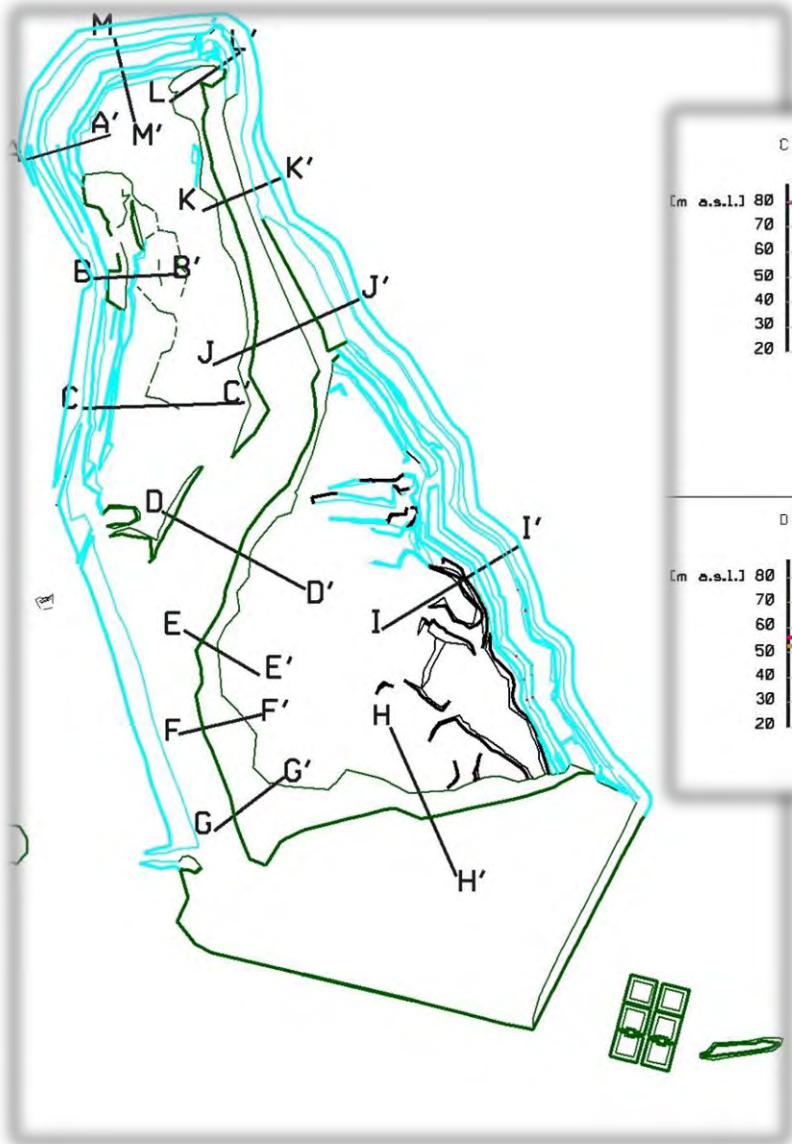


LUBSTÓW OPEN PIT











12.2008



12.2009



12.2010



12.2011



12.2012



12.2013



12.2014



12.2015



12.2016



12.2017



12.2018



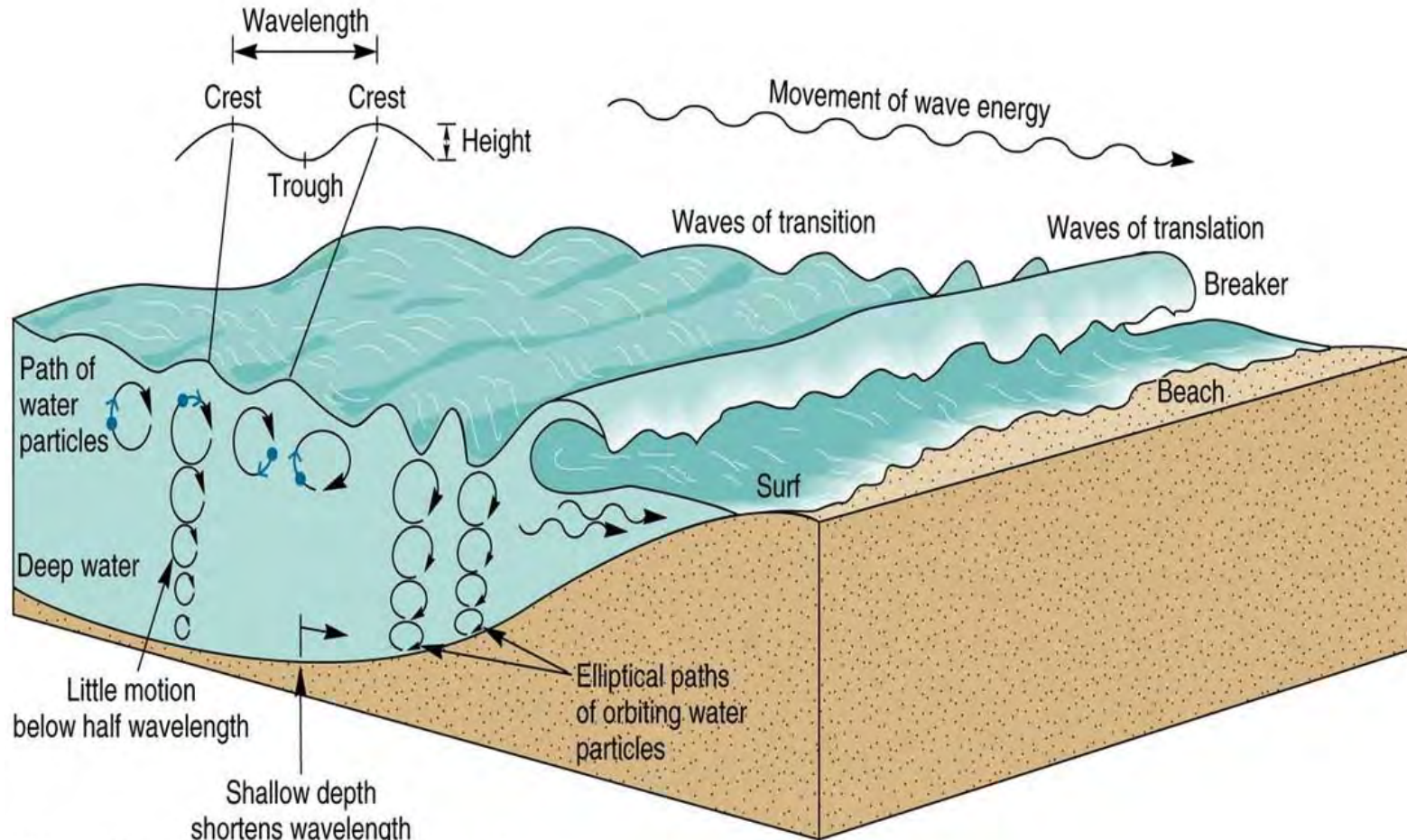
12.2019



IMPACT OF WEATHER CONDITIONS ON THE STABILITY OF SLOPES

- WAVES;
- ICE COVERS;
- WIND.





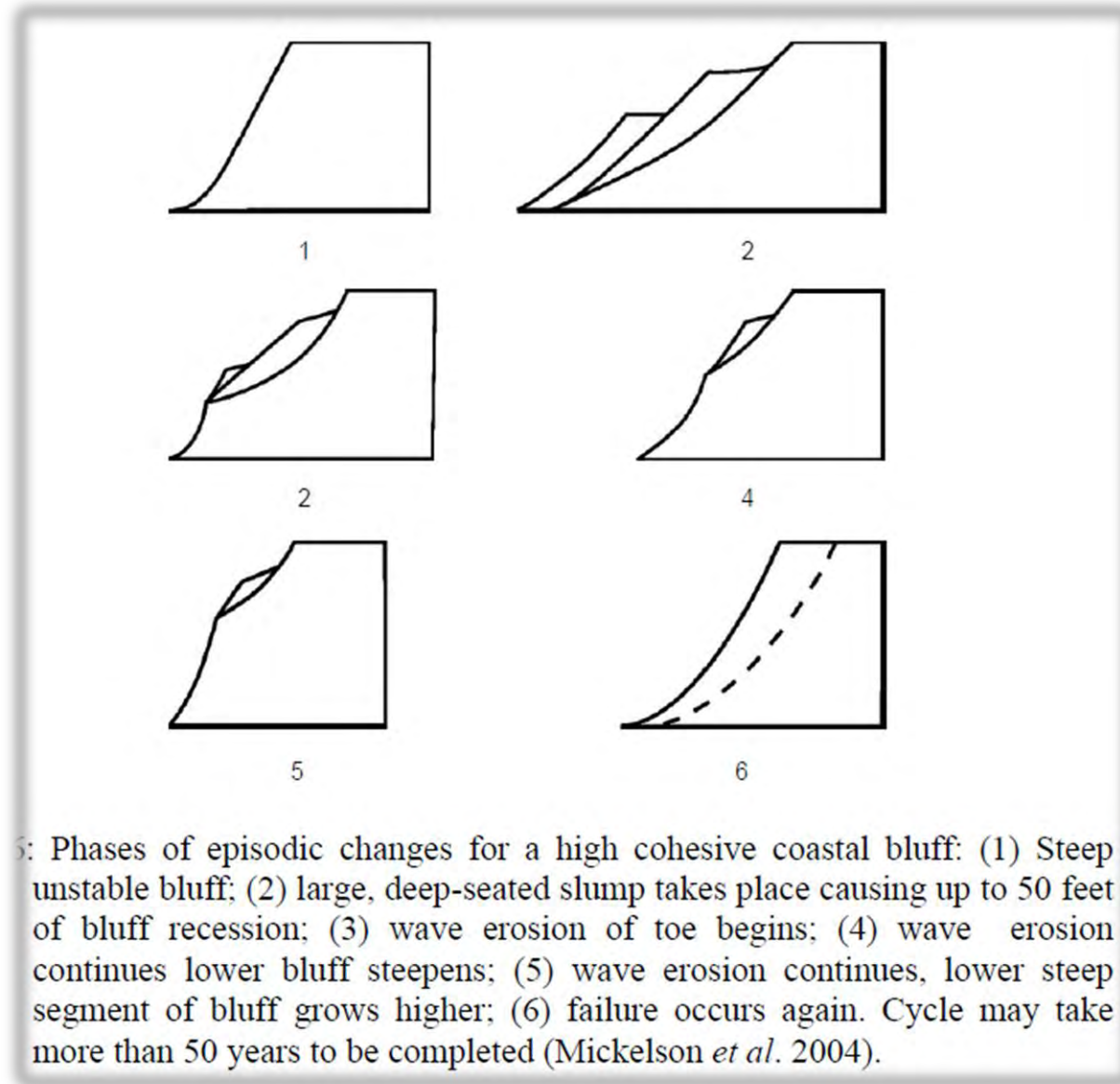
(a) (depth less than one-half wavelength)

<https://www.thegeographeronline.net/coasts.html>

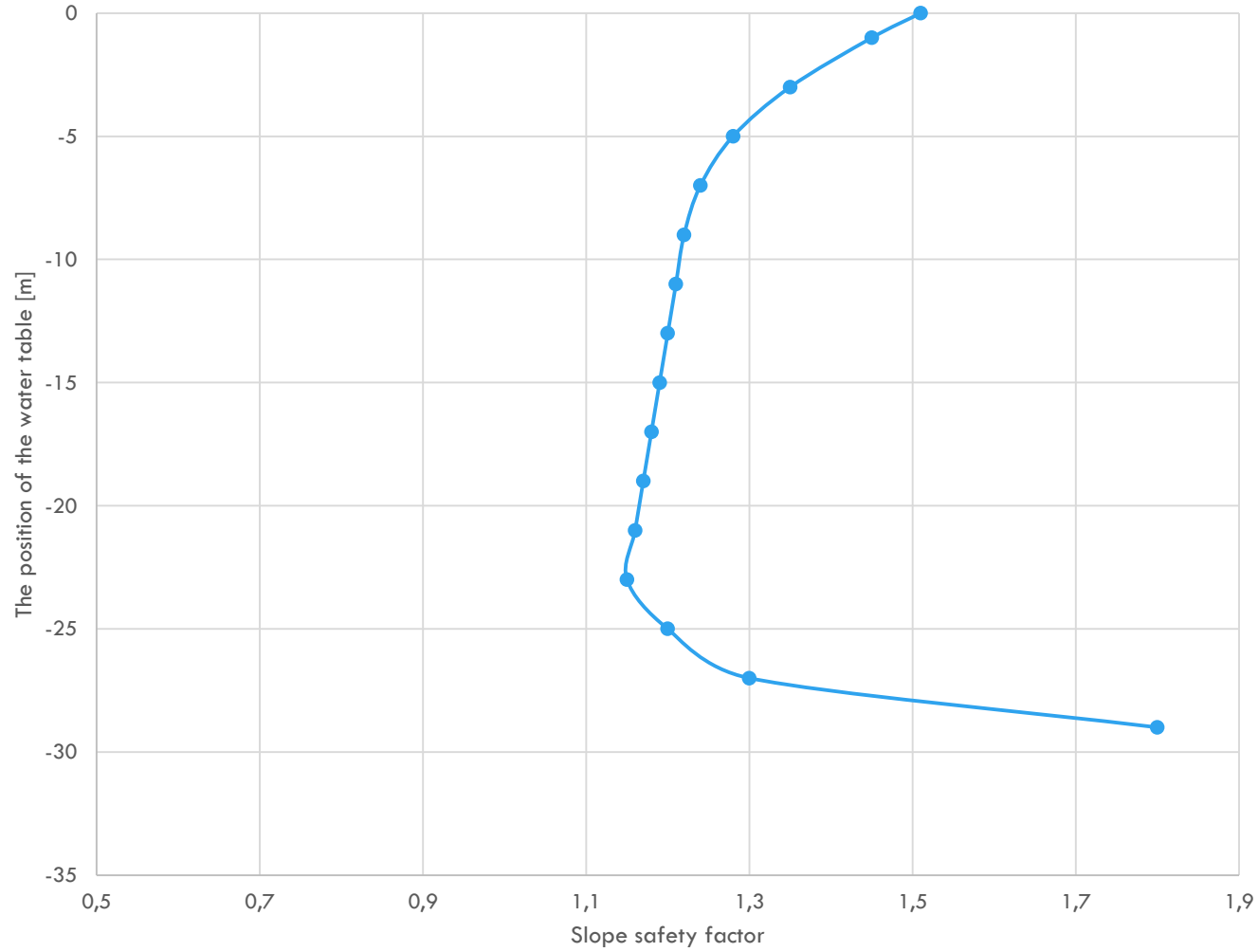




Tuncer B. Edil (2013)



The effect of filling the reservoir with water on the slope safety factor



- It was found that the **influence of waving and rate of water table increase** in the created pit lakes was often underappreciated while managing processes of pit lakes creation.
- In general, it is recommended that the flooding processes of post-mining reservoirs should be **planned well in advance**, taking into account all risks associated with the process.
- A general rule "**the faster the better**" should be applied when managing processes of pit lakes creation, in order to increase slope stability (safety) and in order to reach new socio-economic benefits from the resulting pit lake sooner.

THANK YOU FOR YOUR ATTENTION