Towards a Lithotectonic Framework for Belgium

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what

LTUs are the regional building blocks of geology

why

LTUs also never have been formalised

how

LTUs get formally defined and placed in thesauri that reflect their geological context

who in BE

National Commission for Stratigraphy
LithoTectonic Working Group

Our mission

We need your expertise
Interested? Join us!
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who in EU

The GSEU project builds the LithoTectonic Framework of Europe

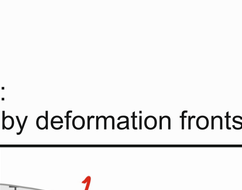
Read more

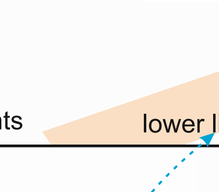
Examples of LTUs (LithoTectonic Units)

LTUs are large and small geological building blocks with their own history

plates — continents — orogens — basins — nappes — fault blocks — local scale

global — regional — local





LTLs correspond to events that define and limit LTUs

LTLs (LithoTectonic Limits) define LTUs

orogen:
limited by deformation fronts

foreland basin:
lower limit is unconformity

nappe:
limited by thrusts

basement:
upper limit is unconformity

Relations between LTUs

LTUs cross-cut and form systems that together form the LT context

Later LTUs eroding and cross-cutting earlier LTUs

How does the Mons Basin fit in regionally ?

Post-Variscan Basin Supersystem
↳ **London-Swabian Basin System**
↳ **London-Paris Basin System**
↳ London Basin
↳ **Paris Basin**
↳ Normand Basin
↳ **Mons Basin**
↳ Sologne Basin
↳ Brie Basin

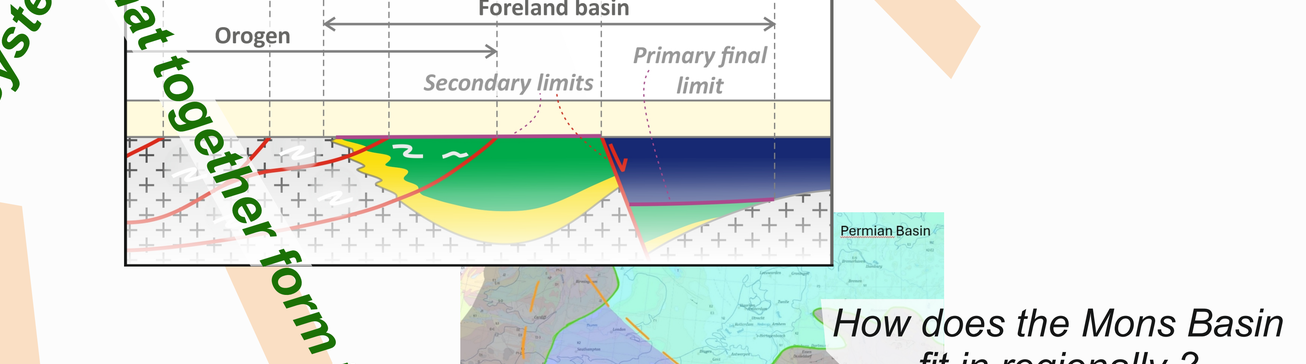
Visualising LTUs

LTUs are easily visualised, easily communicated, easily discussed

Are all these LTUs? What is their definition?

Try yourself

Theux Window
Condroz Inliers
Stavelot-Venn Massif
Campine Basin
Borinage Coal Basin
Rhenish Massif



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