



There is an urgent need to include Earth system sciences in the school curricula in order to enable the next generation to understand the basics of the Earth as a dynamic system and its global problems such as climate change or the sustainable use of georesources. In order to support school and student training but also for people who are generally interested in natural sciences and in particular in geoscience, this series of websites and educational videos was created over the last five years. It is part of a collection of teaching materials that can be found on the DGGV website (www.dggv.de). Links to educational videos on the YouTube channel "Lehrvideos System Erde" (Educational videos on the Earth System) are integrated into the web pages. All texts, images and movie clips used in the videos can be downloaded free of charge and for free use. This web-based teaching material is particularly suitable for teachers in schools, but is also intended for students and interested laypeople.

The series is under construction, with currently 22 websites and videos completed so far for the English and German versions. The chapters are available in English and German language; Spanish is currently being added as a third language, the first Spanish spoken videos are already finished. The 22 completed chapters cover the structure of the Earth, isostasy, the development of the oceanic crust and lithospheric mantle, divergent plate boundaries, transform faults, the Earth's magnetic field, the geometry of plate movements, and first chapters on subduction.

More websites and videos will follow soon.

English version

 Ch. 1.1 https://www.dggv.de/en/portfolio/1-1-basic-information-about-the-structure-of-the-earths-body-dimensions/	 Ch. 1.2 https://www.dggv.de/en/portfolio/1-2-structure-of-the-lithosphere/	 Ch. 2.1 https://www.dggv.de/en/portfolio/2-1-isostasy/	 Ch. 2.2 https://www.dggv.de/en/portfolio/2-2-isostatic-compensation/	 Ch. 2.3 https://www.dggv.de/en/portfolio/2-3-how-gets-mussel-on-mountain/
 Ch. 3.0 https://www.dggv.de/en/portfolio/3-0-plate-boundaries-overview/	 Ch. 3.1 https://www.dggv.de/en/portfolio/3-1-rifting-spreading/	 Ch. 3.2 https://www.dggv.de/en/portfolio/3-2-formation-lithosphere/	 Ch. 3.3 https://www.dggv.de/en/portfolio/3-3-aging-lithosphere/	 Ch. 3.4 https://www.dggv.de/en/portfolio/3-4-formation-oceanic-crust/
 Ch. 3.5 https://www.dggv.de/en/portfolio/3-5-convection-currents-in-the-earths-mantle/	 Ch. 3.6 https://www.dggv.de/en/portfolio/3-6-spreading-zones-and-plate-movement/	 Ch. 3.7 https://www.dggv.de/en/portfolio/3-7-earths-magnetic-field/	 Ch. 3.8 https://www.dggv.de/en/portfolio/3-8-development-of-magnetic-stripe-patterns/	
 Ch. 4.1 https://www.dggv.de/en/portfolio/4-1-the-principle-of-transform-faults/	 Ch. 4.2 https://www.dggv.de/en/portfolio/4-2-types-of-transform-faults/	 Ch. 4.3 https://www.dggv.de/en/portfolio/4-3-plate-motions-rotations/	 Ch. 4.4 https://www.dggv.de/en/portfolio/4-4-geometry-triple-junctions/	 Ch. 4.5 https://www.dggv.de/en/portfolio/4-5-triple-junctions-on-earth/
 Ch. 4.6 https://www.dggv.de/en/portfolio/4-6-absolute-and-relative-plate-motion/	 Ch. 4.7 https://www.dggv.de/en/portfolio/4-7-hotspot-tracks-and-transform-faults/			
 Ch. 5.1 https://www.dggv.de/en/portfolio/5-1-subduction-oceanic-lithosphere/				

... to be continued ...

Selection list of chapters on "System Earth":



Deutsche Version

 Kap. 1.1 https://www.dggv.de/portfolio/1-1-aufbau-des-erdbauers/	 Kap. 1.2 https://www.dggv.de/portfolio/1-2-struktur-lithosphaere/	 Kap. 2.1 https://www.dggv.de/portfolio/2-1-isostasie/	 Kap. 2.2 https://www.dggv.de/portfolio/2-2-isostatischer-ausgleich/	 Kap. 2.3 https://www.dggv.de/portfolio/2-3-wie-kommt-die-muschel-auf-den-berg/
 Kap. 3.0 https://www.dggv.de/portfolio/3-0-plattengrenzen-ueberblick/	 Kap. 3.1 https://www.dggv.de/portfolio/3-1-grabenbruch-spreizungszone/	 Kap. 3.2 https://www.dggv.de/portfolio/3-2-bildung-lithosphaere/	 Kap. 3.3 https://www.dggv.de/portfolio/3-3-alterung-der-lithosphaere/	 Kap. 3.4 https://www.dggv.de/portfolio/3-4-aufbau-ozeanische-kruste/
 Kap. 3.5 https://www.dggv.de/portfolio/3-5-konvektion-erdmanTEL/	 Kap. 3.6 https://www.dggv.de/portfolio/3-6-spreizungszone-und-plattenbewegung/	 Kap. 3.7 https://www.dggv.de/portfolio/3-7-magnetfeld-erde/	 Kap. 3.8 https://www.dggv.de/portfolio/3-8-magnetische-streifenmuster/	
 Kap. 4.1 https://www.dggv.de/portfolio/4-1-prinzip-der-transformstoerungen/	 Kap. 4.2 https://www.dggv.de/portfolio/4-2-arten-von-transformstoerungen/	 Kap. 4.3 https://www.dggv.de/portfolio/4-3-plattenbewegungen-und-rotationen/	 Kap. 4.4 https://www.dggv.de/portfolio/4-4-geometrie-von-tripelpunkten/	 Kap. 4.5 https://www.dggv.de/portfolio/4-5-tripelpunkte-der-erde/
 Kap. 4.6 https://www.dggv.de/portfolio/4-6-absolute-und-relative-plattenbewegung/	 Kap. 4.7 https://www.dggv.de/portfolio/4-7-hotspots-und-transformstoerungen/			
 Kap. 5.1 https://www.dggv.de/portfolio/5-1-subduktion-ozeanischer-lithosphaere/				

... Fortsetzung folgt ...

Auswahlliste der Kapitel zum "System Erde"



Lista de selección de capítulos sobre el "Sistema Tierra"



Versión en Español

 Cap. 1.1 https://www.dggv.de/es/portfolio/1-1-estructura-del-planeta-tierra/	 Cap. 1.2 https://www.dggv.de/es/portfolio/1-2-estructura-de-la-litosfera/	 Cap. 2.1 https://www.dggv.de/es/portfolio/2-1-isostasia/	 Cap. 2.2 https://www.dggv.de/es/portfolio/2-2-compensacion-isostatica/	 Cap. 2.3 https://www.dggv.de/es/portfolio/2-3-como-llega-concha-montana/
 Cap. 3.0 https://www.dggv.de/es/portfolio/3-0-estructura-del-planeta-tierra/	 Cap. 3.1 https://www.dggv.de/es/portfolio/3-1-estructura-del-planeta-tierra/	 Cap. 3.2 https://www.dggv.de/es/portfolio/3-2-estructura-del-planeta-tierra/	 Cap. 3.3 https://www.dggv.de/es/portfolio/3-3-compensacion-isostatica/	 Cap. 3.4 https://www.dggv.de/es/portfolio/3-4-estructura-del-planeta-tierra/

... continuará ...