

## Chapter 6 Notes – Volcanoes

- There are currently 1500 volcanoes in the world that are classified as active
- Only around 20 active volcanoes have a complete network of monitoring instruments
- Mount Nyiragongo is an active volcano in the Congo that has the fastest lava flow on Earth and threatens the city of Goma
- Mount St. Helens eruption in Washington state in 1980 was the most destructive volcanic eruption in US history
- Most Active Volcanoes = along convergent plate boundaries (such as the Ring Of Fire)
  
- Viscosity = resistance to flow
  - The viscosity of magma increases when the temperature decreases
- More violent eruptions occur where gases cannot escape easily
  - The viscosity of magma increases with increased silica content AND decreased temperature
- Different types of plate boundaries have different magma compositions (due to partial melting of different source rocks)
  - Basaltic magmas are usually at divergent plate boundaries and near hot spots
  - Andesitic magmas AND rhyolitic magmas occur at convergent plate boundaries
  
- 3 reliable indicators of a volcanic eruption prior to an eruption
  - Increased frequency of earthquakes
  - Rapid changes, deformations, in the shape of a volcano
  - Large emissions of common volcanic gases
- Days before an eruption there are lots of earthquakes each day
  
- Products of volcanic eruptions divide into
  - Airborne elements
    - Lateral blast, tephra, volcanic gases
  - Flows on the ground
    - Lava, pyroclastic flows, lahars
  
- Lateral blasts = sideways blasts that devastate large areas adjacent to volcano
- Tephra = particles of all sizes that are blasted into the air during a volcanic eruption
- Volcanic gases = usually sulfur dioxide and carbon dioxide and water vapor
- Pyroclastic flow = dense, hot, flow (ash, lava, and gases) that races down volcano's slope
- Lahars = mud flows formed when fine grained tephra mixes with water from snow melt or streams

# Earth Science Chapter 6 Volcanoes Lecture Notes

**Michal Rosen-Zvi**



## Earth Science Chapter 6 Volcanoes Lecture Notes:

Earth Science, 2001      Harcourt Science: Earth science [grade] 6, units C and D, teacher's ed, 2000      **Instructional Strategies for Middle and High School** Bruce E. Larson, Timothy A. Keiper, 2013 Instructional Strategies for Middle and High School is an accessible practical and engaging methods textbook that introduces pre service teachers to various instructional strategies and helps them to decide how and when to use these methods in the classroom Classrooms are comprised of diverse learners and aspiring teachers will face complex decisions about the assessment of student learning and classroom management Veteran teacher educators Bruce Larson and Timothy Keiper offer practical suggestions for ways to integrate effective classroom management and valid assessment techniques with each instructional strategy Instructional Strategies for Middle and High School equips pre service teachers with the methodological tools to promote understanding conceptual awareness and learning for every child in the classroom Features and updates to this new edition include Clear step by step descriptions and illustrative in class videos of seven instructional techniques and that pre service teachers can realistically implement within the classroom setting Increased coverage on teaching English language learners including a Making Your Lesson More Meaningful for ELLs feature now included in every instructional strategy chapter Enhancing Your Teaching With Technology feature included in every instructional strategy chapter Fresh interior design to better highlight pedagogical elements and key features all to better engage students Fully revamped and comprehensive companion website with both student and instructor materials that stress real world application of strategies classroom assessment and management      *Discover Science: Teacher's annotated edition*, 1991 Science content helps develop the skills needed to understand how science works learn new concepts solve problems and make decisions in today's technological society

*Focus on Earth Science*, 2001      Resources in Education, 1998      **Harcourt Science: Earth science, [grade] 4, units C and D, teacher's ed**, 2000      Monthly Reference Lists Providence Public Library (R.I.), 1884      *Glencoe Sci Earth Science Chapter 21 Our Impact on Water and Air Chp Res 519 02* McGraw-Hill Staff, 2001-08      **Arc Volcano of Japan** Takeru Yanagi, 2011-07-07 This book presents an analysis of our current knowledge on the origin of the Earth's continental crust There are two aspects to consider tectonic and igneous processes Tectonic aspects include sedimentary accretion terrane accretion and continental collision at continental margins in association with plate subduction These processes result in the formation of large mountain belts the building up of which literally grows the continents However these tectonic aspects are concerned with material recycling within the crust and hence do not contribute to volumetric growth of continental crust Igneous processes concern separation of continental crust from the mantle and result in the volumetric growth of continental crust Therefore the main focus of this book is to systematically examine why and how the Earth's continental crust forms by evaluating magmatic processes at island arcs where new continental crust forms      **Cosmology, History, and Theology** Wolfgang Yourgrau, 2012-12-06 It is difficult to doubt that we suffer at present from the manifold

aspects of an economic crisis which affects all walks of life Well men in almost every epoch in history have maintained that they were going through a crisis which was supposed to be always more grave than any preceding critical phase Very often those crises were not of an economic nature but concerned either health the political structure the opportunity of acquiring knowledge and so on I think that we would consider today that some of those claims that were made in various historical epochs were often exaggerated if viewed from a historical point of view However it seems undeniable that we at present are in the middle of a universal economic crisis which has affected almost every facet of our daily life And yet the fact that despite these adverse conditions it is still possible to gather scholars from all corners of the world to deal with often sheer theoretical and sometimes abstract pursuits is a refutation of any facile pessimism it is reassuring to all who wonder where political and social events are taking us Our salvation may well come from those acts of the mind so characteristic of the pure scientist and scholar

*Knowledge & Illustrated Scientific News* ,1911      **English Mechanic and Mirror of Science** ,1892      Knowledge ,1911      **General Science Quarterly** ,1926      **English Mechanic and Mirror of Science and Art** ,1907      *Notes on books* Longmans, Green and co,1903      **Nature** Sir Norman Lockyer,1879      **Educational Times** ,1898      *Harcourt Science: Earth science, [grade] 5, Units C and D, teacher's ed* ,2000

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