

Earth System Science 5: The Atmosphere (2007S)

Final Exam study guide

Prof. Jin-Yi Yu (ESS)
Final Exam: 06/12/2007 Tuesday 4:00pm

!!!!!!All Homework & Quizzes!!!!!!

Chapter 6: Cloud Development and Forms

- ◆ Four air lifting ways: frontal, orographic, convergence and convective lifting
- ◆ Adiabatic VS. diabatic processes?
- ◆ Lapse rates: Environmental lapse rate, dry adiabatic lapse rate and moist (wet) adiabatic lapse rate.
- ◆ How to determine if the atmosphere is absolute or conditional stable or unstable?
- ◆ Cloud type based on height: Low / Middle / High
- ◆ Properties of every cloud type.

Chapter 7 Precipitation Processes

- ◆ What is terminal velocity?
- ◆ Growth in warm cloud VS. cool and cold clouds
- ◆ What are collision and coalescence and where do they happen?
- ◆ What is Bergeron process about? What are rimming and aggregation?
- ◆ Forms of precipitation (snow, rain, graupel, hail, sleet, freezing rain)
- ◆ Cloud seeding

Chapter 8 Atmospheric Circulation and Pressure Distributions

- ◆ What is the three-cell model? What are the three cells? What is ITCZ, subtropical high?
- ◆ Upper troposphere westerlies; Semi-permanent pressure cells
- ◆ The polar front and the two jet streams
- ◆ How do we define the scales of the atmosphere? What is the order from largest to smallest?
- ◆ Major wind systems: Monsoons, Sea/Land breezes, Mountain/Valley breezes; what is their common mechanism?
- ◆ Santa Ana winds
- ◆ Surface wind-driven ocean current
- ◆ El Nino and Walker Circulation (Southern Oscillation)

Earth Systems Final Exam Study Guide Answers

Linda S. Williams



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Student Study Guide Peter L. Kresan, Reed Mencke, Frank Press, Raymond Siever, 2003-09-25 This reconceptualization of the text *Understanding Earth* reflects the fundamental changes in the field of physical geology over the past several years

Schools Reimagined Jacqueline Grennon Brooks, Martin G. Brooks, 2021 The current pause in the traditional structure of schooling due to the 2020 COVID pandemic presents an opportunity for openness on many different levels openness to the science of learning and what it tells us about the impact of constructivist education openness to changes in instructional practice that align with this research openness to new structures and ways of thinking about success openness to greater teacher and student agency and openness to schoolwork centered around big ideas design theory and authentic problems to solve The authors make the case that this is the perfect time to do this work and they exhibit how it can be accomplished They further discuss the importance of schools making normative and structural shifts to enhance the likelihood that

constructivism a theory of learning will be embraced not impeded **BSCS Science Technology : Investigating Earth Systems, Teacher Edition** ,2005 **5 Steps to a 5 AP Environmental Science, 2014-2015 Edition** Linda D.

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web coordinates 37 75 n 122 55 w at 05 12 pacific standard time on wednesday april 18 1906 the coast of northern california was struck by a major earthquake with an estimated moment magnitude of 7 9 and a maximum mercalli intensity of xi extreme

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