

ISBN-10: 0-13-600377-X ISBN-13: 978-0-13-600377-9 © 2008

- 1. Angular Unconformities and Nonconformities 2. Angular Unconformities. Nonconformities. and **Disconformities**
- 3. Atmospheric Energy Balance
- 4. Atmospheric Stability

5. Atmospheric Stability and Saturation Control-This modified version of our "Atmospheric Stability" animation also allows manipulation of the saturation level in Stage 3.

6. Beach Drift and Longshore Currents

7. Calcareous Ooze and the Calcite Compensation Depth-NEW to the 4e, this animation shows how calcareous ooze can be found beneath the calcite compensation depth (CCD), even though at depths below the CCD, calcareous ooze dissolves.

- 8. Caldera Formation
- 9. Caldera Formation: Crater Lake
- **10. Coastal Stabilization Structures**
- 11. Cold Fronts and Warm Fronts
- 12. Cones of Depression
- **13. Convection and Tectonics**
- 14. Convergent Margins: India-Asia Collision 1

180*

15. Convergent Margins: India-Asia Collision 2- NEW to the

4e, this modified version of "Convergent Margins: India-Asia Collision 1" has an alternate ocean floor map at the beginning as well as auto-pauses and additional profiles at 55, 38, and 10 million years ago.

- 16. Coriolis Effect
- 17. Cross-Bedding
- 18. Cyclones and Anticyclones

War

Warm

Thermocline

Cold

3

Develop

Normal Conditions

2

This library includes 101 animations illuminating the most difficult-to-visualize topics in physical geology, physical geography, oceanography, meteorology, and Earth science. Created through a unique collaboration

among Prentice Hall's leading geoscience authors—including Robert W. Christopherson, Darrel Hess, Frederick K. Lutgens, Aurora Pun, Gary A. Smith, Edward J. Tarbuck, and Alan P. Trujillo— the animations are conveniently provided as Flash files and pre-loaded into PowerPoint[®] slides.



19. Daily Movement of the Deep Scattering Layer- NEW to the 4e, this animation shows the daily movement of the ocean's deep scattering layer (DSL) as well as examples of the organisms that comprise it.

- 20. Divergent Boundary Formation
- 21. Dry Compaction and Liquefaction
- 22. Earth-Sun Relations- This revised animation now includes a "Continuous Play" feature.
- 23. Earth's Water and the Hydrologic Cycle

24. Ekman Spiral Coastal Upwelling/Downwelling- NEW to the 4e, this animation shows how an Ekman spiral forms in surface waters due to wind. It also demonstrates how coastal winds in both hemispheres produce upwelling or downwelling.

- 25. Elastic Rebound
- 26. El Niño and La Niña
- 27. Erosion of Deformed Sedimentary Rock
- 28. Exposing Metamorphic Rock
- 29. Faults
- 30. Floods

Constant

Clear All

10

9

Walker

Circulation Cell

Cold

Upwelling

8

Develop

La Niña Conditions

7

6

5

- 31. Foliation of Metamorphic Rock
- 32. Foliation Processes
- 33. Fractional Crystalization
- 34. Glacial Advance and Retreat 1
- 35. Glacial Advance and Retreat 2
 - 36. Glacial Isostasy

22

months

- 37. Glacial Processes 1
- 38. Glacial Processes 2
 - 39. Global Geography Through Geologic
 - Time
 - 40. Global Warming
 - 41. Global Wind Patterns

42. Global Wind Patterns with **Hadley Cells**



Advancing glacier 43. Hot Spot Volcano Tracks ocumulation zone (all parts of glacier above equilibrium line) 44. Hurricane Wind Patterns 45. Igneous Features and Landforms quilibrium line 46. Inclination and Declination Ablation zone (all parts of the glacier below equilibrium line) 47. Jet Stream and Rossby Waves 48. Kelvin Calculation of Earth's Age 49. Lava Lamp Convection 50. Magma Rising from the Mantle 51. Mantle and Core Dimensions 52. Mantle Melting and Plate Tectonics 53. Mantle Melting and Pressure-Temperature Graphs 54. Mass Movements: Five Main Types 55. Mass Movements: Uplift and Mass Movement 56. Midlatitude Cyclones

73. Seamounts/Tablemounts and Coral Reef Stages

-NEW to the 4e, this animation shows how seamounts and tablemounts are created at a mid-ocean ridge and how tablemounts become flat on top. It also illustrates the three stages of coral reef formation from fringing reef to barrier reef to atoll.

- 74. Seasonal Pressure and Precipitation Patterns
- 75. Sediment Transport by Streams
- 76. Sediment Transport by Wind
- 77. Seismic Wave Motion
- 78. Seismic Wave Motion with Surface Effects
- 79. Seismographs
- 80. Shoreline and Sedimentation Changes
- 81. Stream Processes: Floodplain Development
- 82. Stream Processes: Oxbow Lakes
- 83. Stream Processes: Oxbow Lakes and Floodplain Development
- 84. Stream Terrace Formation
- 85. Stress and Strain Graphs
- 86. Tectonic Settings and Volcanic Activity
- 87. Terrane Formation

89. Tornado Wind Patterns

- 90. Transform Faults
- 91. Tsunami
- 92. Tuttle and Bowen's Data
- 93. Volcano Types
- 94. Water Phase Changes
- 95. Water Table Formation

96. Wave Interface -NEW to the 4e, this animation allows the user to control wave variables of two different waves and see the resulting patterns produced when the two

97. Wave Interference with 3D Visualization

-NEW to the 4e, this variation on the "Wave Interference" animation adds the ability to display a three-dimensional view of the resulting wave.

98. Wave Motion and Wave Refraction When Approaching Shore 99. Wave Properties

100. Wave Reflection and Refraction

Hall

101. Wind Pattern Development



88. Tidal Cycle

57. Motion at Plate Boundaries

Avalanche

Formation

and Eruption

61. Ocean Circulation

63. Ozone Depletion

64. Pangea Breakup

65. Physical Weathering

67. Radioactive Decay

66. Plate Boundary Features

68. Relative and Absolute Motion

71. Seafloor Spreading and Magnetization

72. Seafloor Spreading and Plate Boundaries

69. Relative Geologic Dating 1

70. Relative Geologic Dating 2

58. Mount St. Helens, Washington: Debris

60. Nebular Hypothesis of Solar System

62. Oceanic Midlatitude Productivity

59. Natural Levee Development with Flooding