

GEOLOGY: VAGABONDS TRAMPING THROUGH GEOLOGY
THE APPALACHIANS: FROM ACADIA TO ACADIE

Don Beaumont

Fall 2011

Sandi Phillips, Rocky Romero

Week 1 –

- Geology (Don) – INTRODUCTION TO GEOLOGIC CONCEPTS
 - ◆ Geology in the news - see website
 - ◆ Rock types: sedimentary, igneous, metamorphic
 - Intro to geologic maps
 - How rocks are formed
 - ◆ Theory of Continental Drift & Plate Tectonics
 - Oceanic/Continental plates
 - Sea floor spreading, subduction zones, mountain building
 - The 'living earth' theory
 - Exotic terranes vs geosynclines
 - Plate movement: Pangea to today
- Vagabonds (Sandi) – INTRODUCTION, LOUISIANA TO NEW ENGLAND
 - ◆ Becoming vagabonds
 - ◆ The travel route – Louisiana to Newfoundland
 - ◆ The Acadians in Louisiana
 - ◆ Bays (Chesapeake) and Barrier Islands (East Coast)

Week 2 –

- Geology (Don) – GEOLOGY CREATES THE APPALACHIANS
 - ◆ Geology in the news - see website
 - ◆ Weathering and Erosion
 - ◆ Appalachian Mountain building
 - Topography – mountains/plains/rivers
 - Natural resources/geologic map
- Vagabonds (Rocky) – NEW ENGLAND, PART 1
 - ◆ Connecticut – Mystic, Dinosaur Park
 - ◆ Rhode Island – Pawtucket (mills)
 - ◆ Massachusetts – Plymouth Colony

Week 3 –

- Geology (Don) – GEOLOGY DEFINES AMERICA'S SETTLERS
 - ◆ Geology in the news - see website
 - ◆ Geosynclines
 - ◆ Africa: advent of humans
 - ◆ Migration routes to new world
 - ◆ First Nations (Indians)
 - ◆ Early European discoverers
- Vagabonds (Sandi) – NEW ENGLAND – PART 2
 - ◆ Vermont – Ethan Allen, Shelburne Museum, Graniteville, Mt Wash. Observatory

- ◆ N.H – Crazy Horse rock outcrop, Portsmouth, Exeter
- ◆ Maine - Acadia Nat'l Park, coastline, islands

Week 4 –

- Geology (Don) – APPALACHIAN GEOLOGY
 - ◆ Geology in the news - see website
 - ◆ Where are Appalachian-age mountains now?
 - USA-Canada – England – Europe - ???
 - Caused by plate tectonics
 - The Appalachians through the last 300 million years
- Vagabonds (Rocky) – QUEBEC AND NEW BRUNSWICK
 - ◆ Quebec – Quebec City, Montreal, Ottawa, Museum Civilization
 - ◆ New Brunswick – Bay of Fundi

Week 5 –

- Geology (Don) – ROCK/ORES/MINERALS OF THE APPALACHIANS
 - ◆ Geology in the news - see website
 - ◆ Granite/marble – geologic formation, Appalachian locations, mining methods
 - ◆ Iron – geologic formation, Appalachian locations, mining methods
 - ◆ Oil – geologic formation, Appalachian locations, mining methods
 - ◆ Precious metals/minerals – geologic formation, location, mining methods
- Vagabonds (Sandi) – QUEBEC, NEW BRUNSWICK, PEI
 - ◆ Nova Scotia – Acadians, coastline, fossil cliffs, Cabot Trail, Joggins Fossils
 - ◆ Prince Edward Island – circle trip

Week 6 –

- Geology (Don) – FROM THE PRESENT TO THE FUTURE
 - ◆ Geology in the news - see website
 - ◆ Depletion of ores/minerals in the Appalachians
 - ◆ Off-shore oil exploration - Atlantic East coast and Canada
 - ◆ Future of mining/oil in Appalachia
 - ◆ Wrap up
- Vagabonds (Rocky) - NEWFOUNDLAND
 - ◆ Ferry crossings
 - ◆ Drive across island, bird sanctuary
 - ◆ What we didn't do: L'Anse aux Meadows, Labrador
 - ◆ Gros Morne N.P. – the Mantle

Website: donbeaumont.weebly.com for class presentations (PowerPoint), previous class materials, field trips, & other good stuff