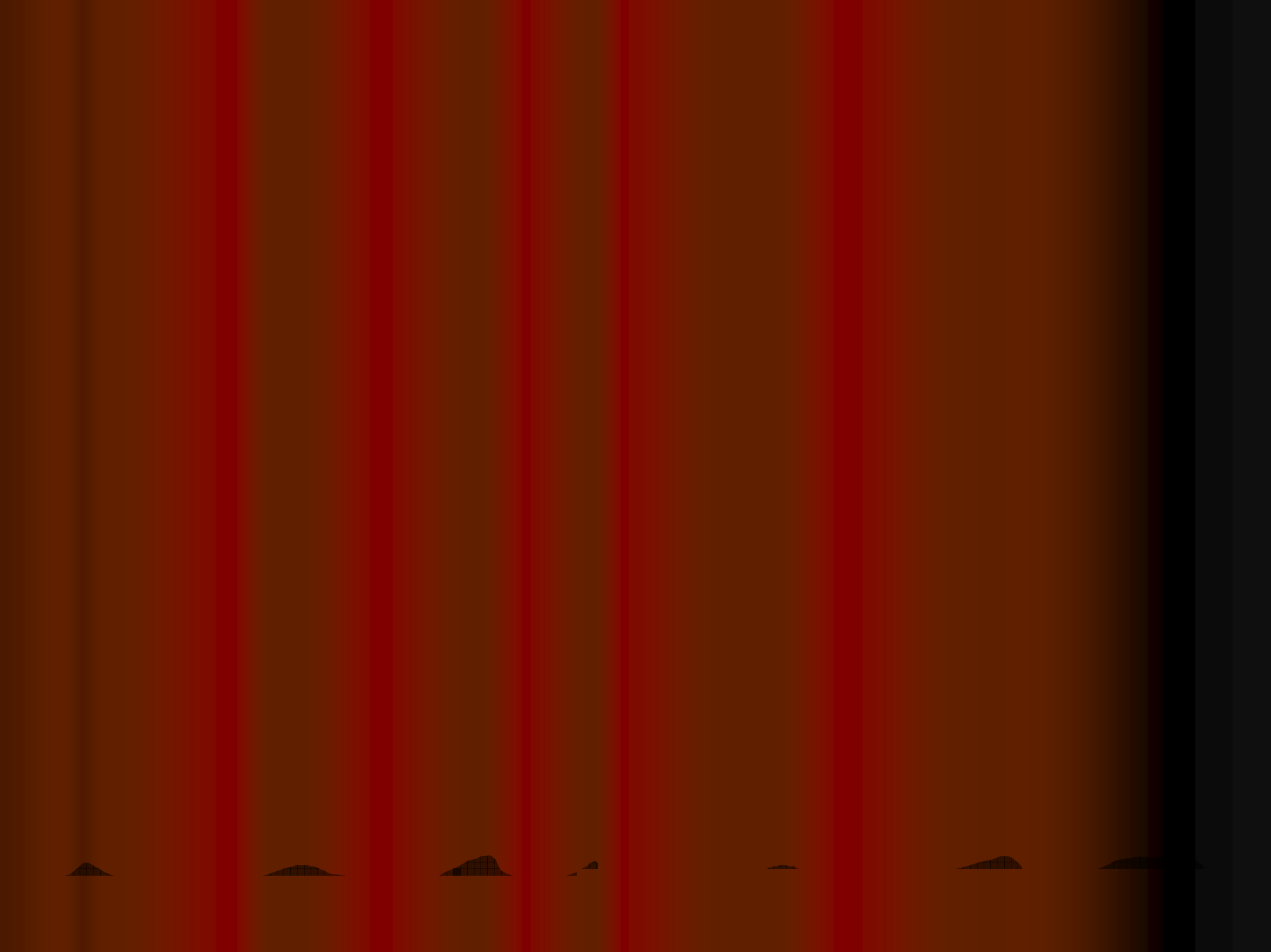
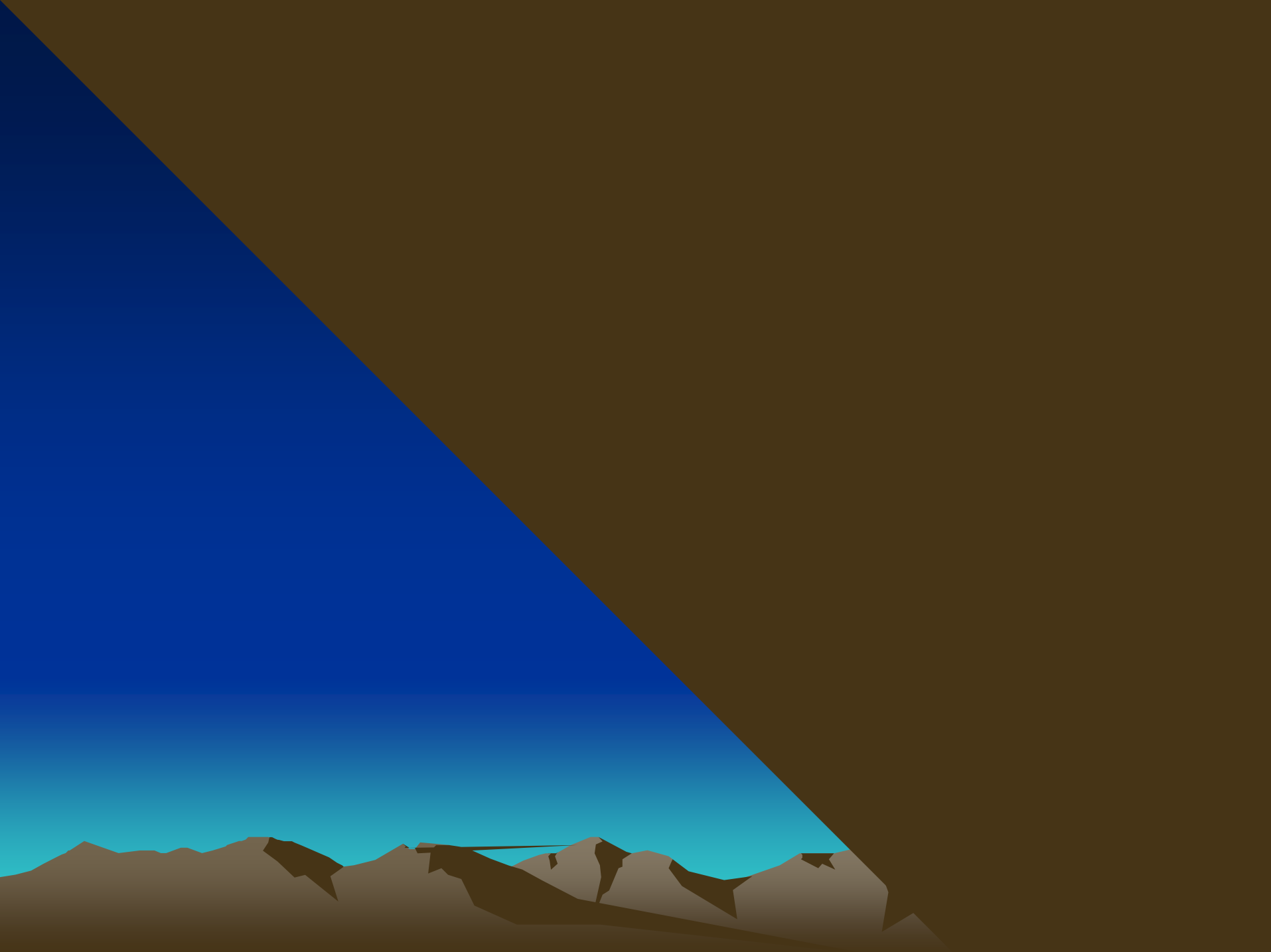
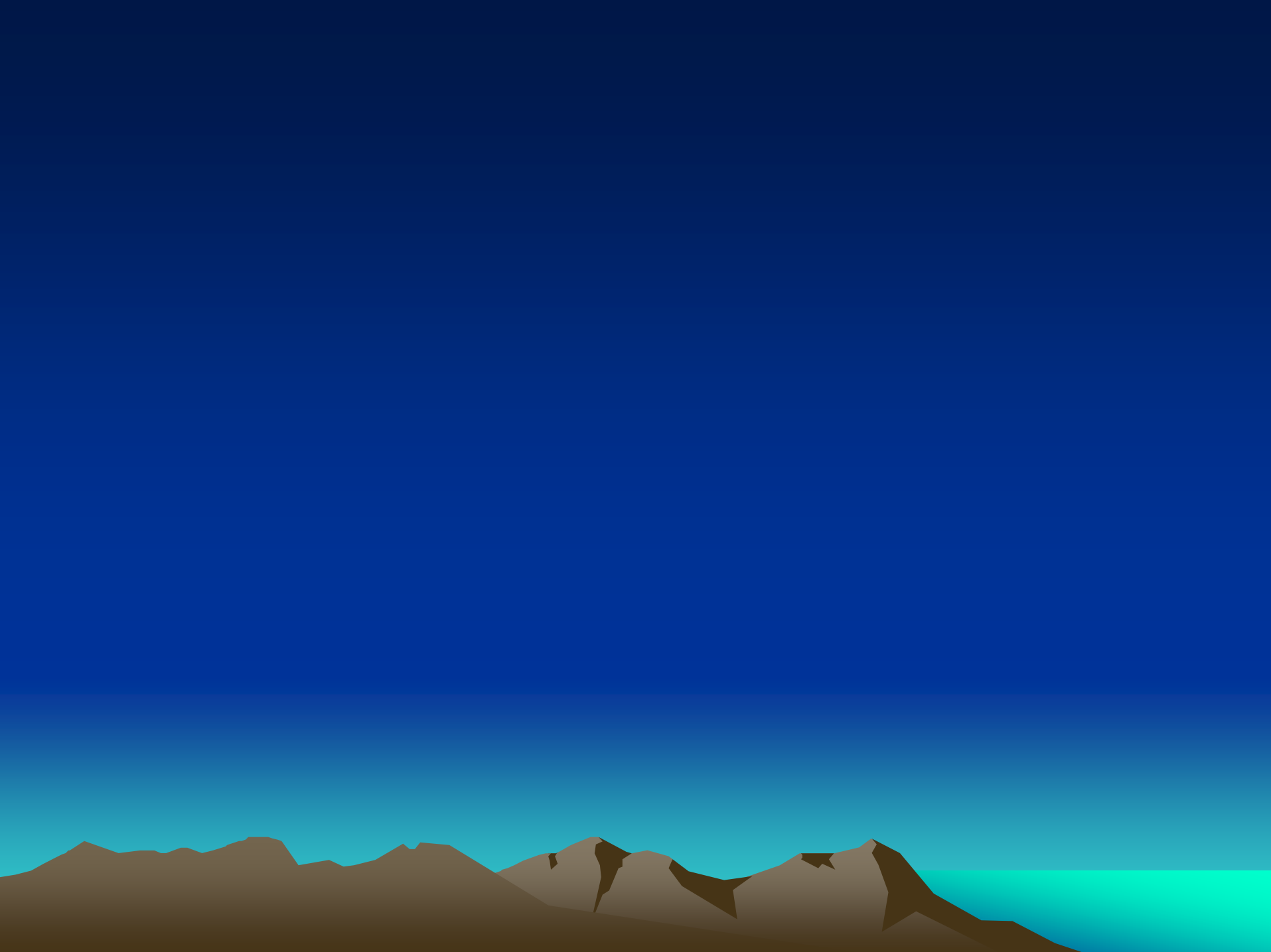
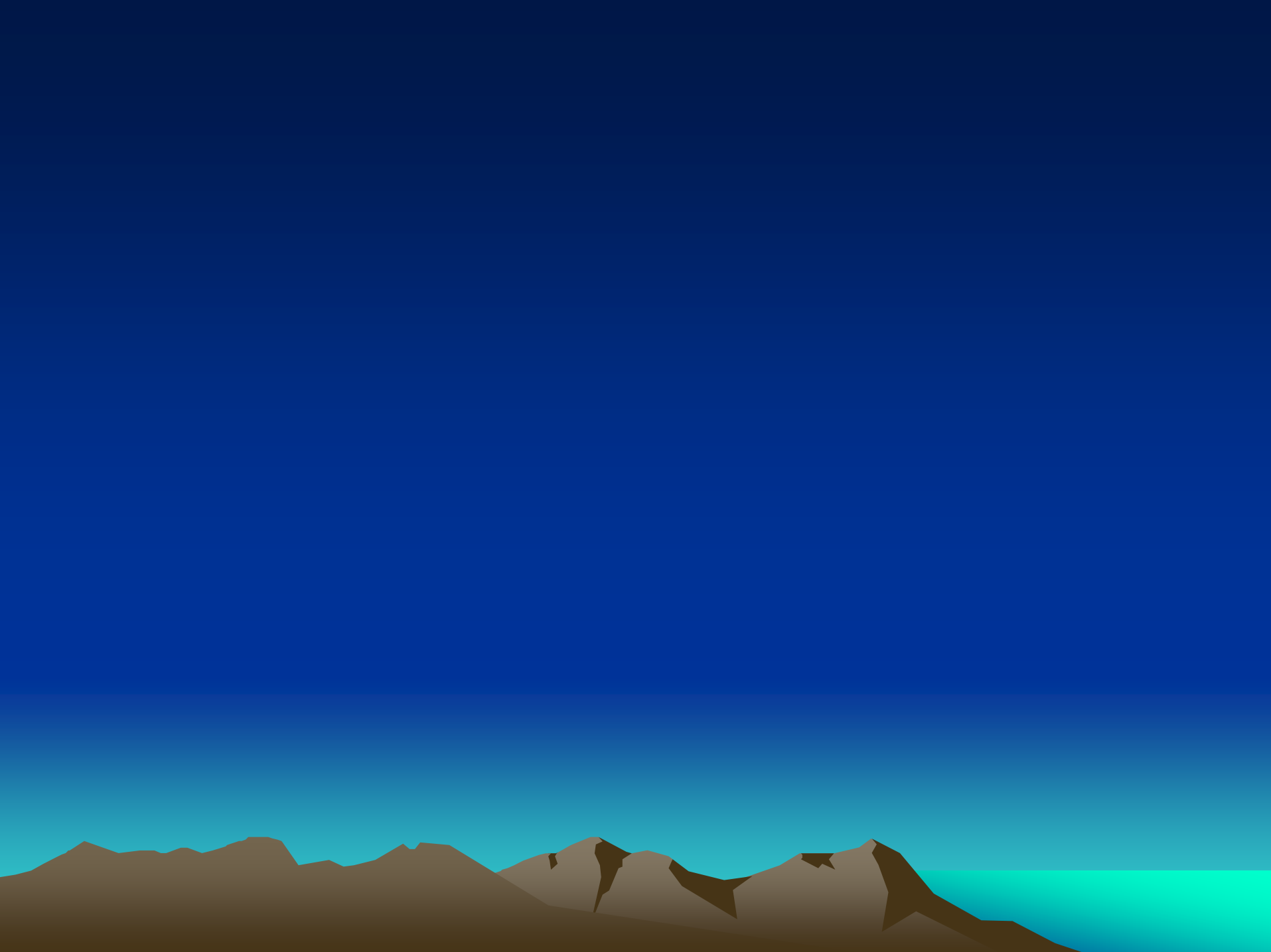
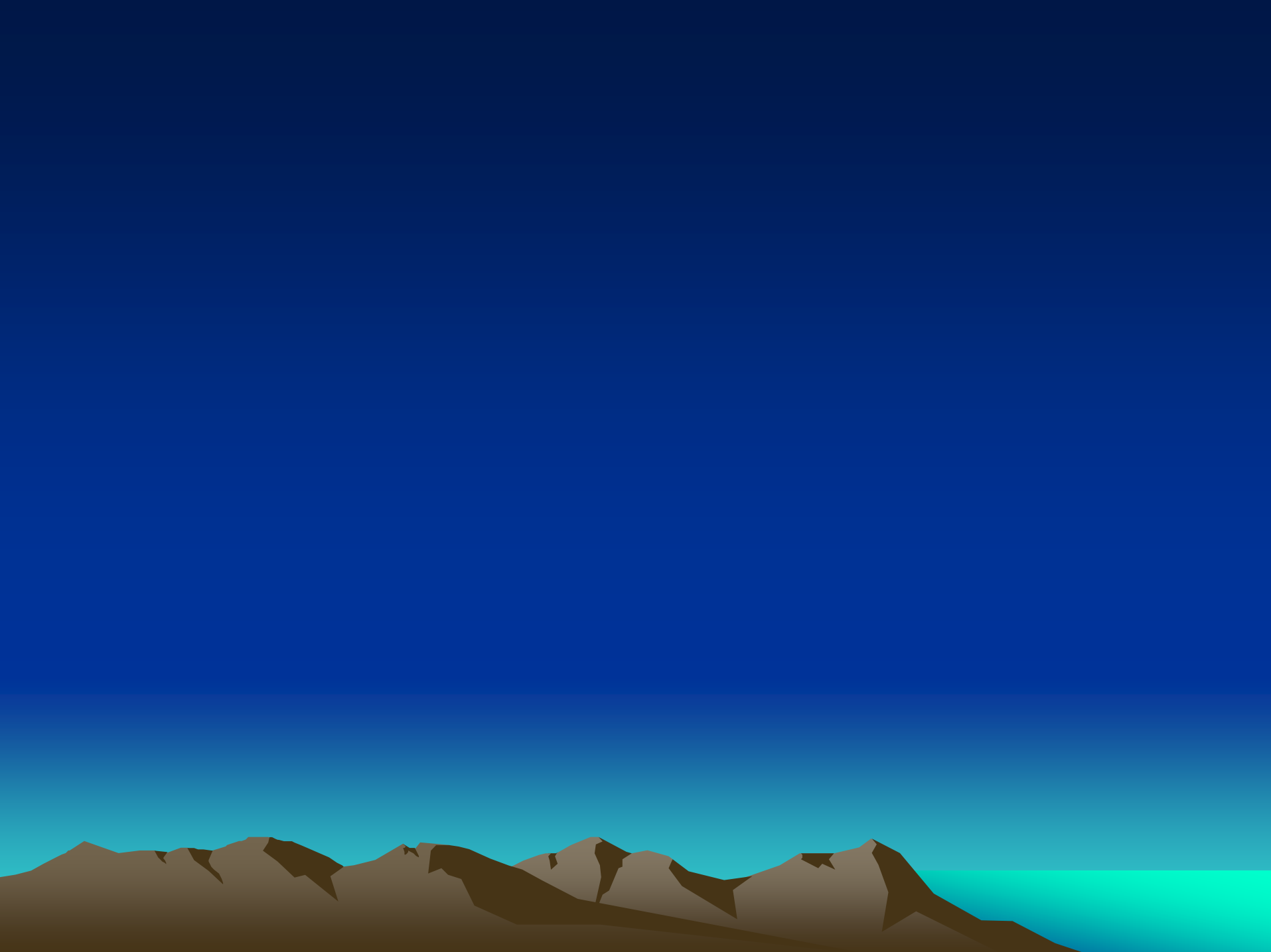






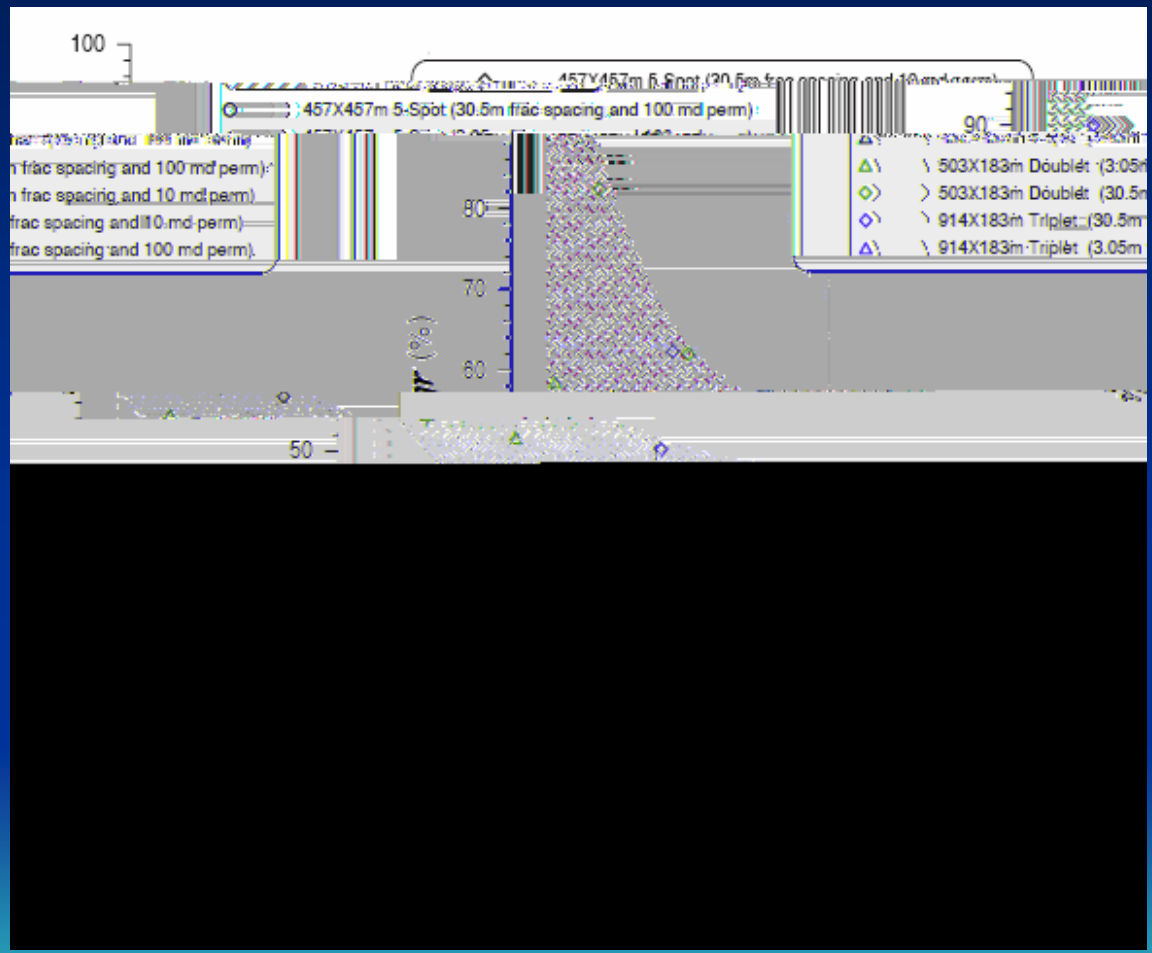


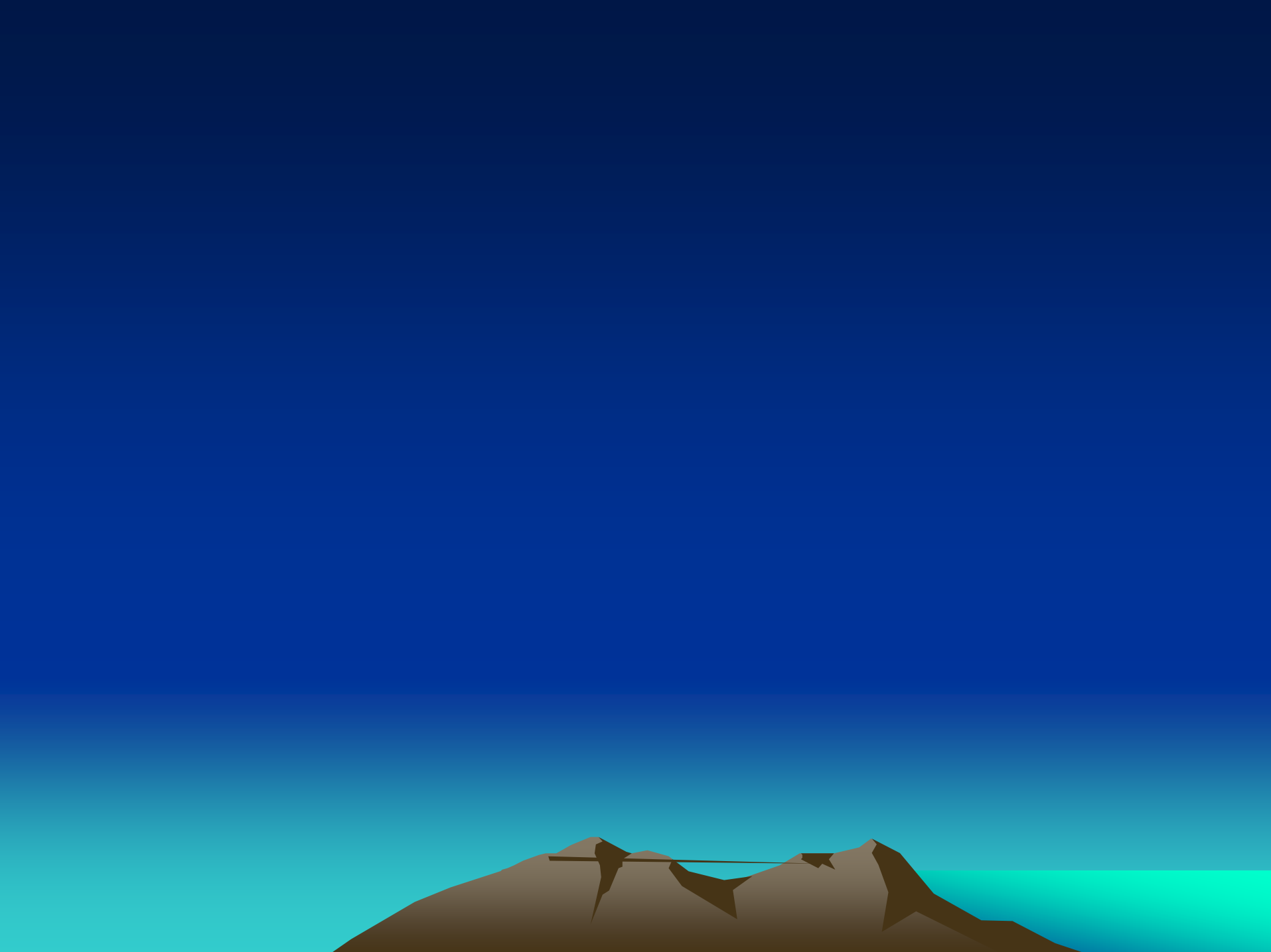
Resource Base vs. Reserves

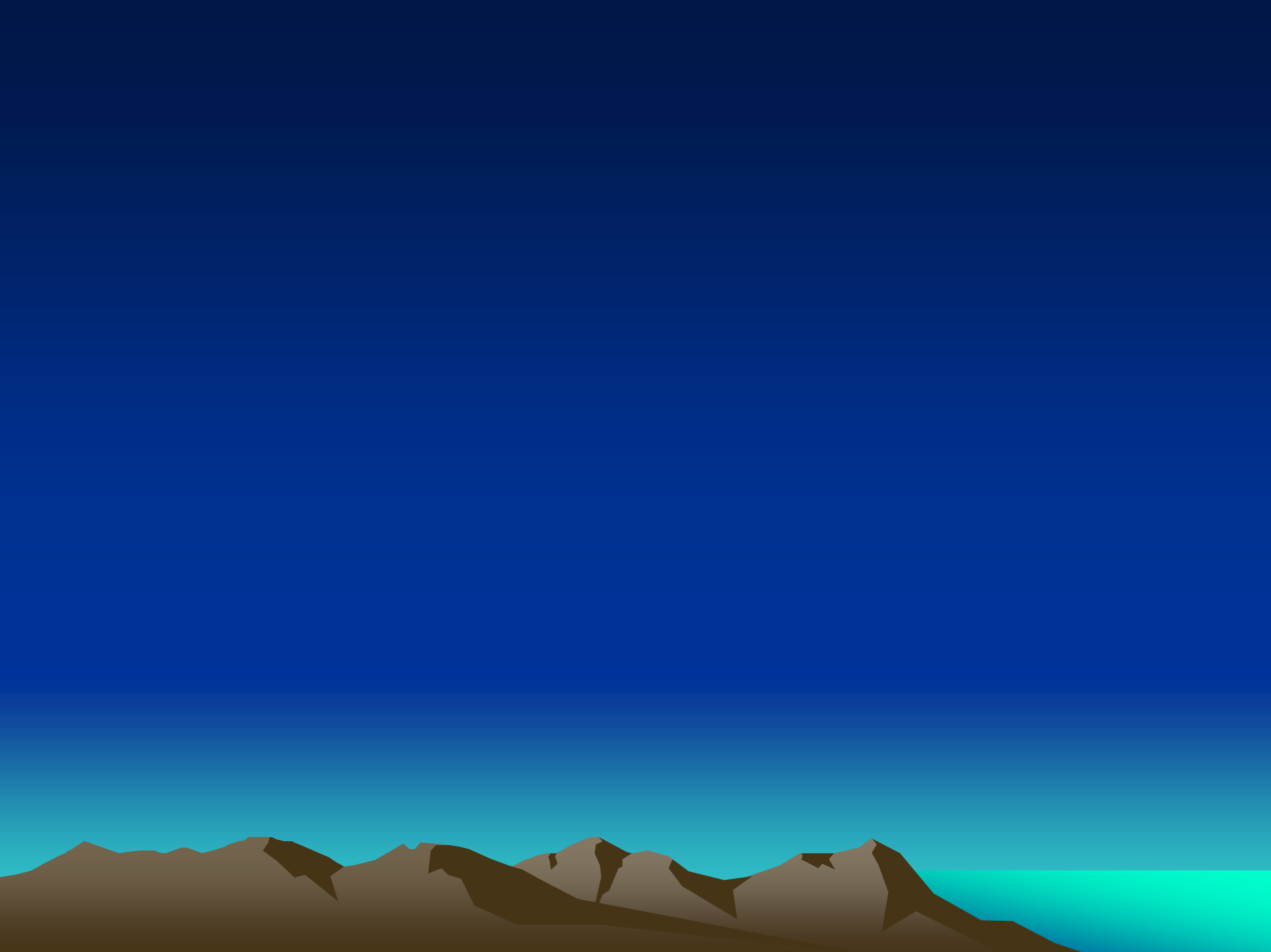


TempeoIm6DoRure

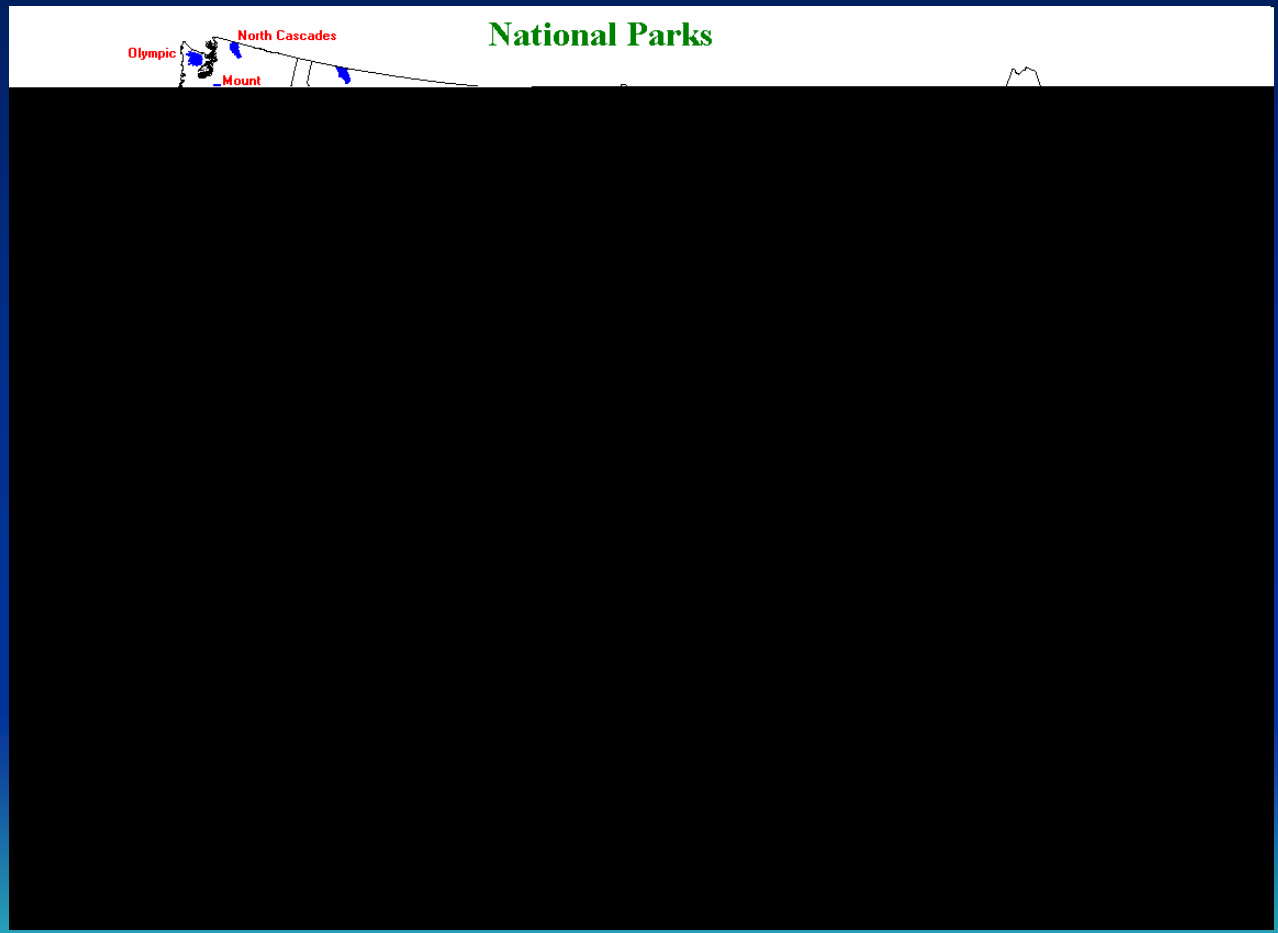
Fractured Rock Volume



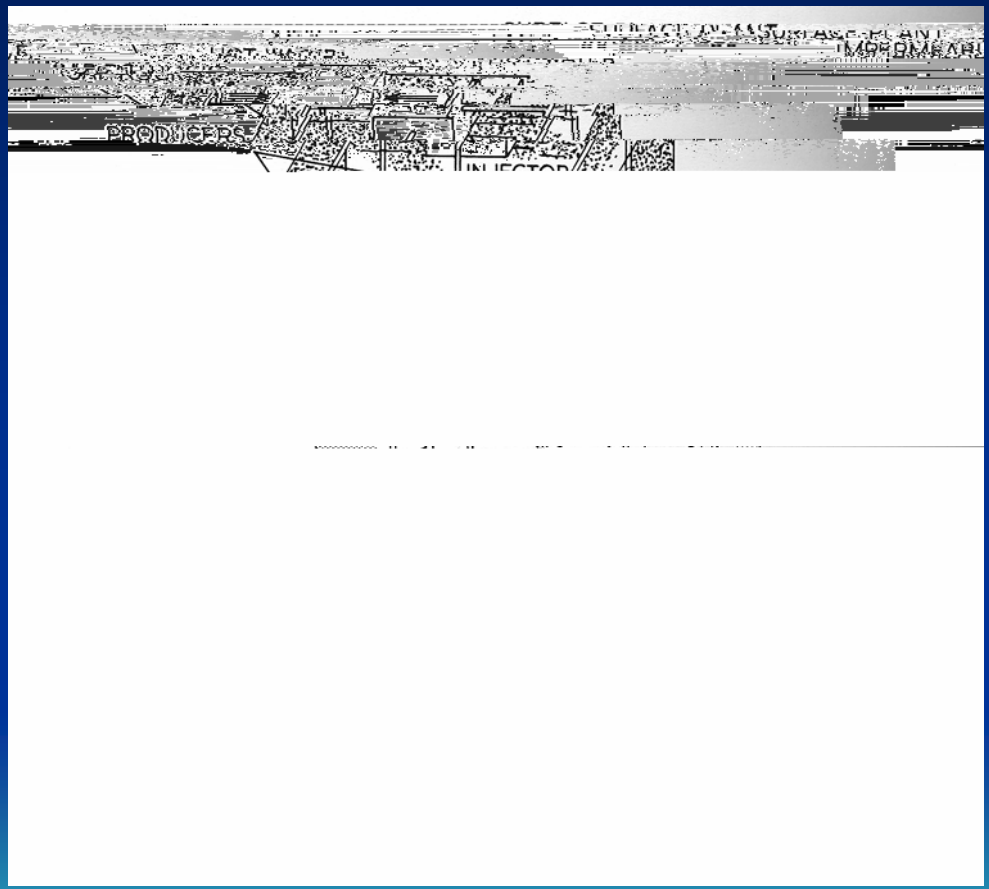




Inaccessible Potential Resource Areas



Accessing the Resource



Convective vs. Conductive Resource

- Above 3 km
  - High temperature fluids
  - Permeability often controlled by faults and fractures
  - Rock heated by convection of hot water
- Hydrothermal resource – very high permeability
- Shallow EGS resource
  - On margins of hydrothermal systems
  - Volcanic heating

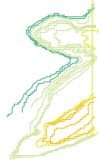
Convective vs. Conductive Resource

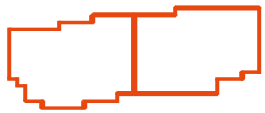
- Shallow EGS resource
  - On margins of hydrothermal systems
  - Volcanic areas
  - Sedimentary basins – oil and gas production
  - Lower natural permeability

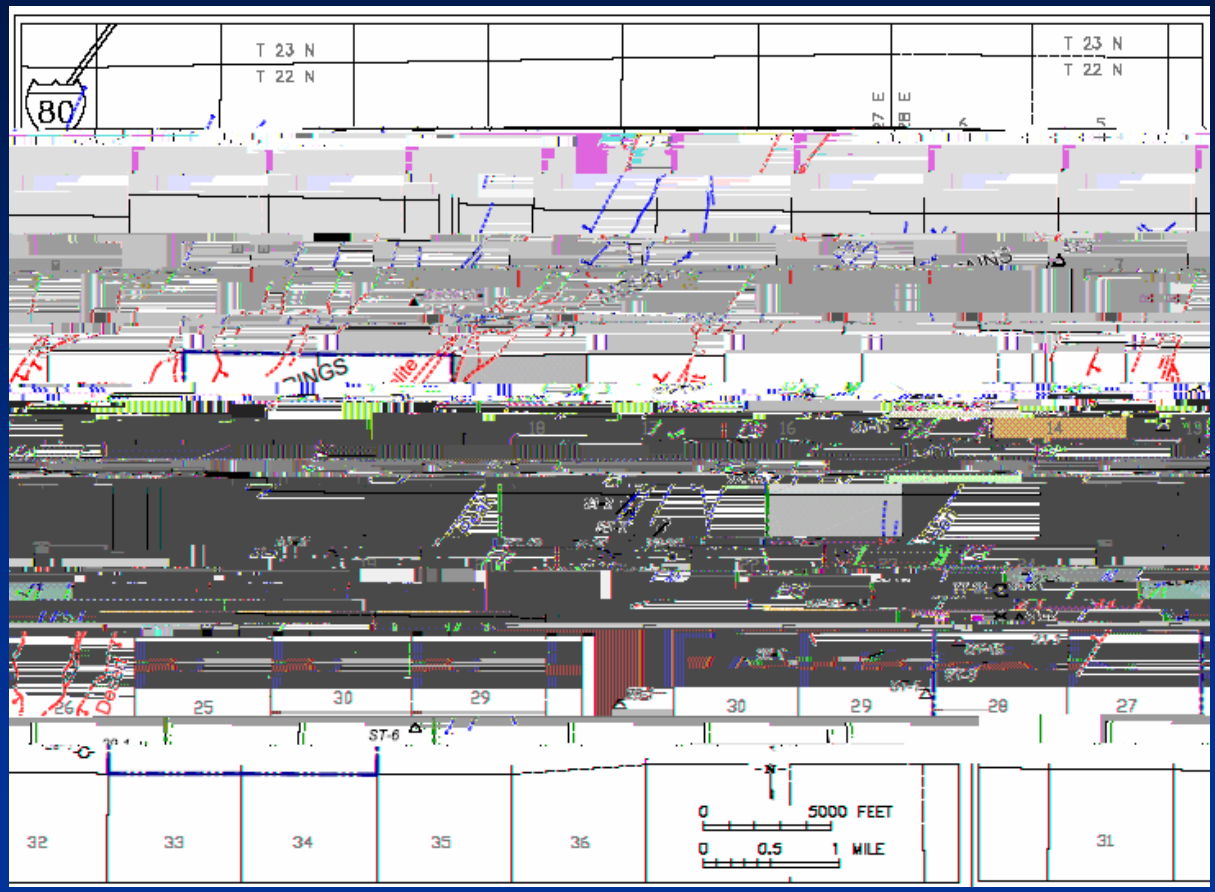
Geothermal from Oilfields

- Soultz, France
  - Pechelbronn oil field
  - Data on depth to bedrock
  - Temperature
  - Oil wells used for seismic monitoring
- Cooper Basin –
  - Depth to bedrock
  - Temperature mapping

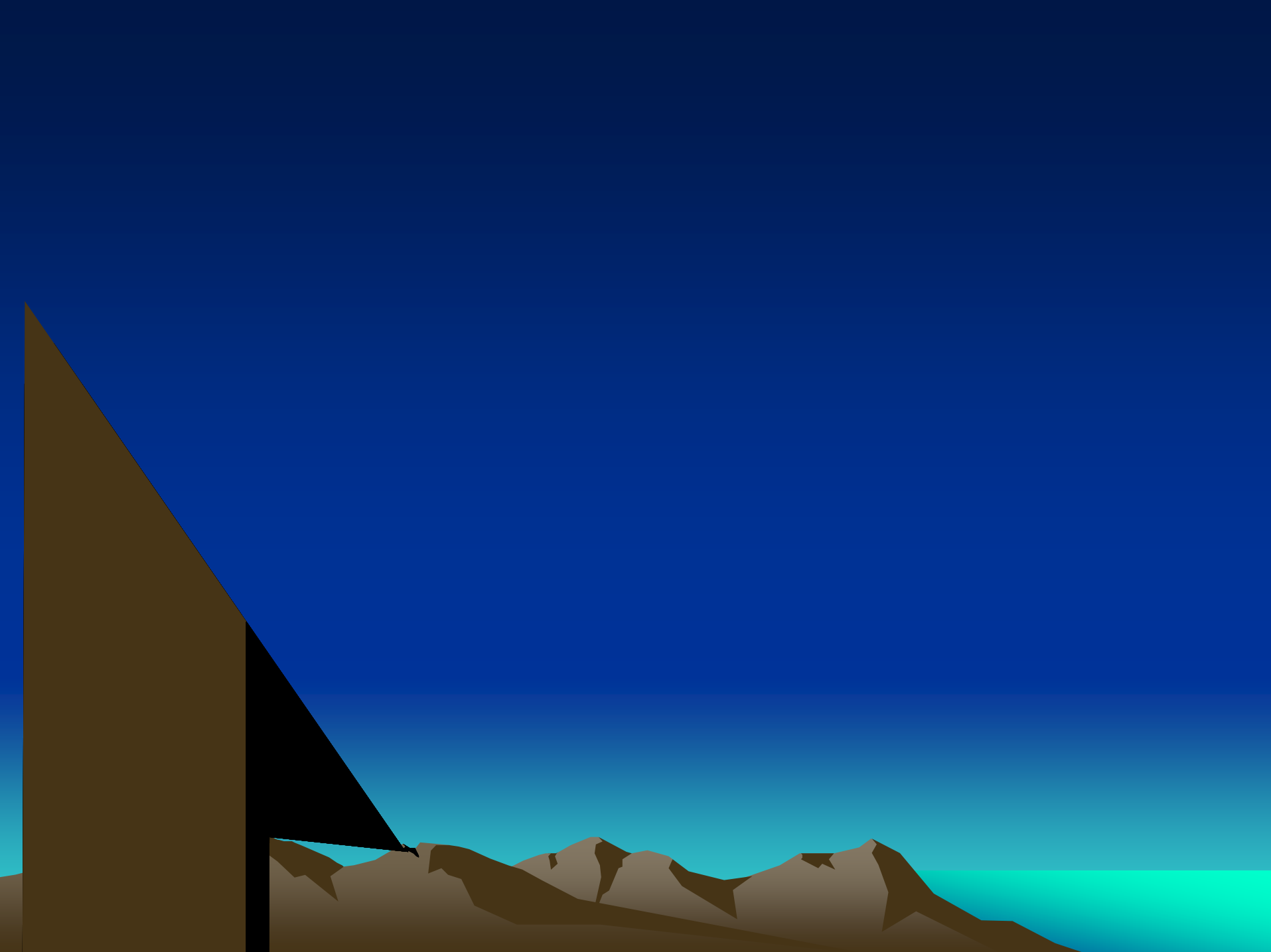
Cooper Basin







Supply of EGS Power on the Edges of Existing Hydrothermal Systems



Estimates of Recoverable Resource