

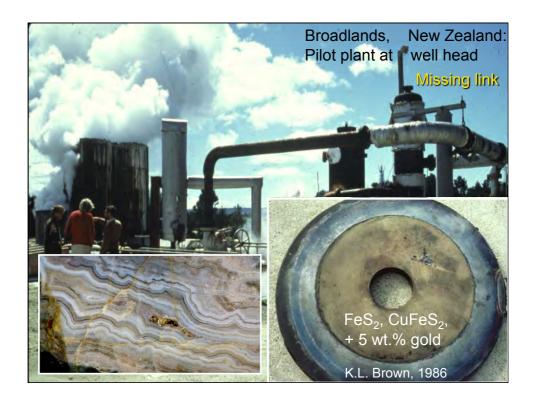
Types of epithermal deposits 3 endmember types: two in volcanic arcs, 1 in rifts

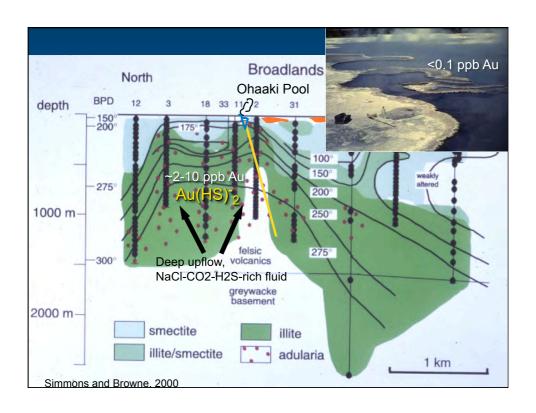
- High sulf'n bodies: Cu-Au-As, sulfide rich, andesite arcs
 - Hosted by lithocaps: advanced argillic zones over porphyry systems
- Inter. sulf'n veins: Ag-Au ± Zn-Pb, sulfide rich, andesite arcs
 - Zoned and/or complex mineralogy (intrusion related, diatreme)

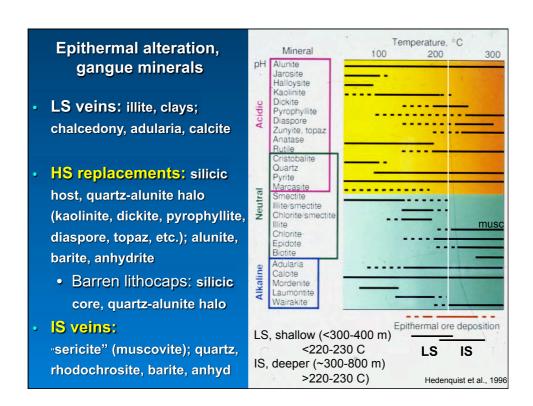
HS (or lithocap) and IS locally affiliated; also deeper porphyry

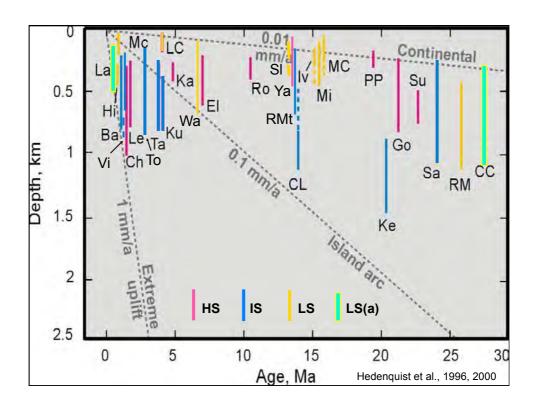
- Low sulf'n veins: Au-Ag bonanzas, sulfide poor; extensional, bimodal
 - LS veins: Au-Ag-Te, sulfide poor, alkalic association



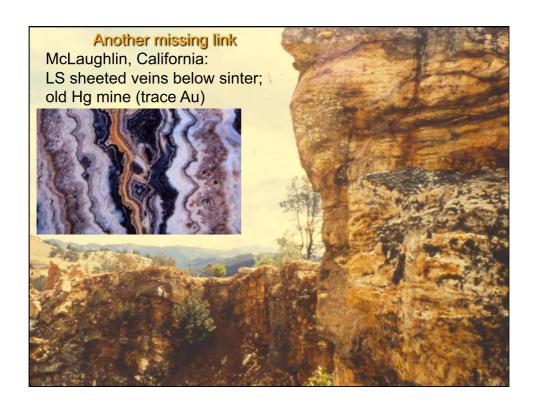


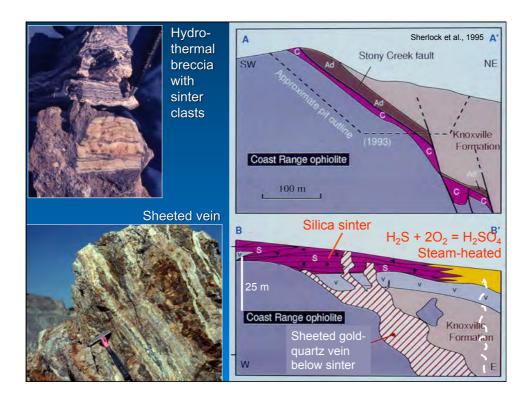


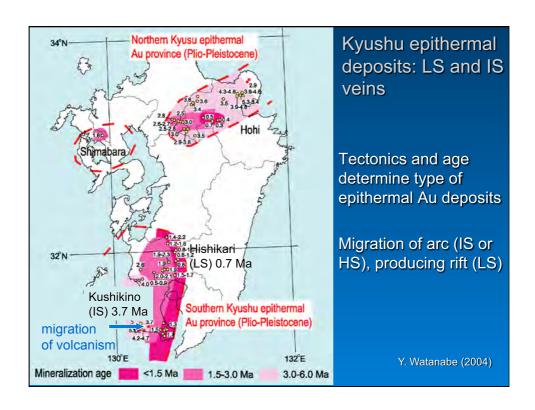


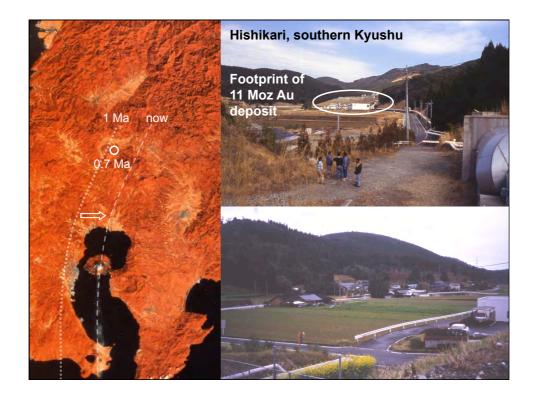


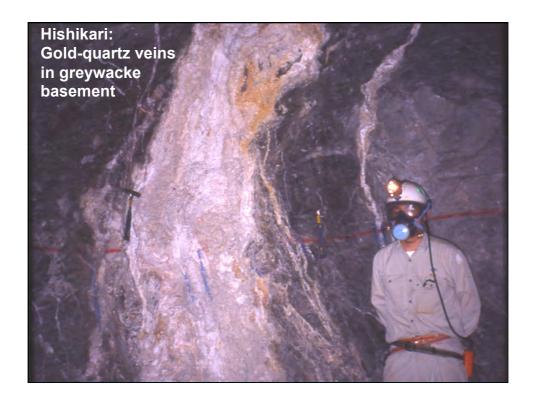


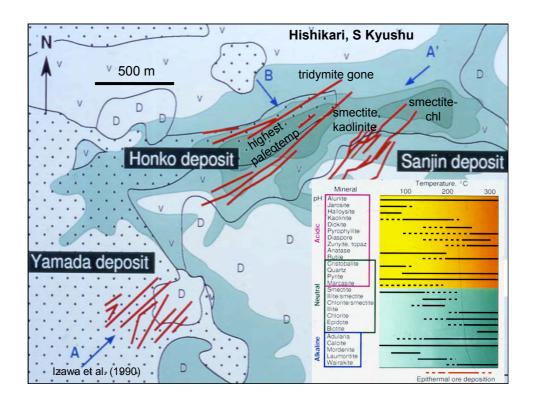


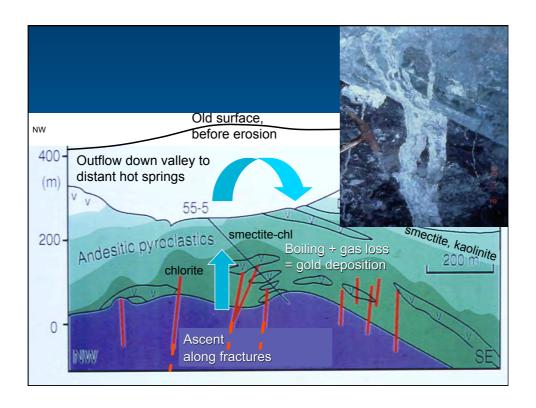


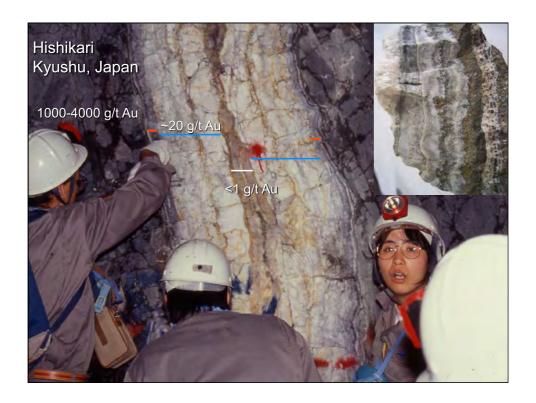




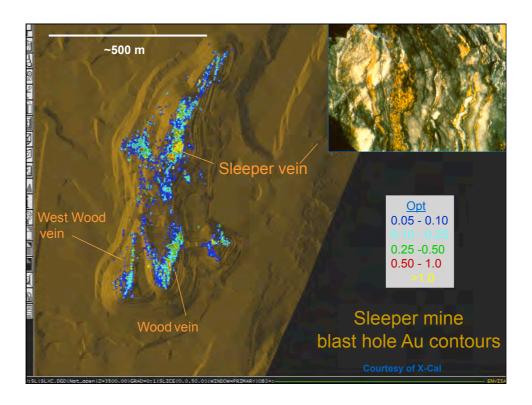


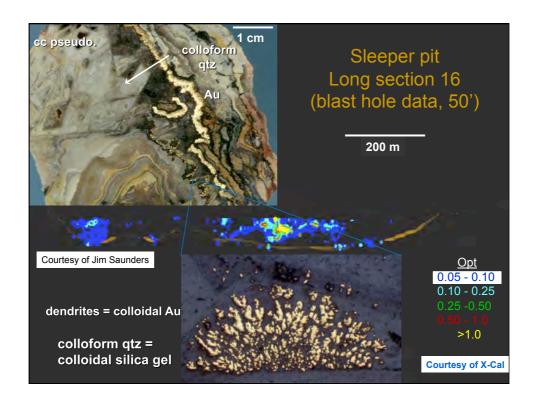


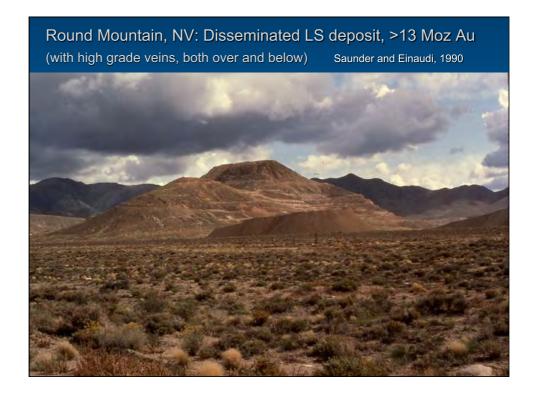




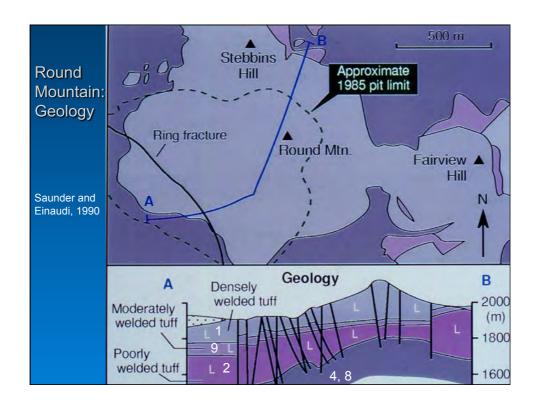


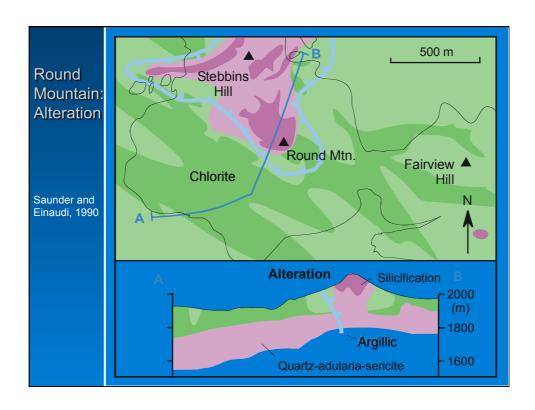


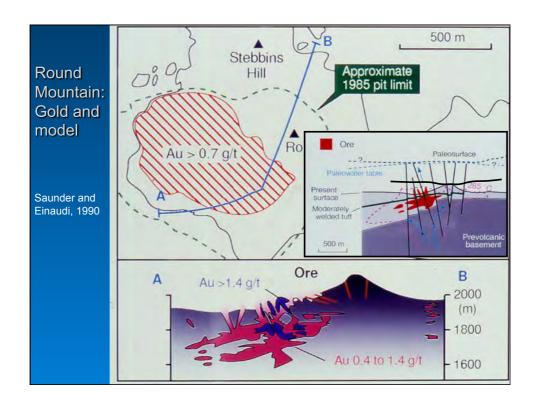


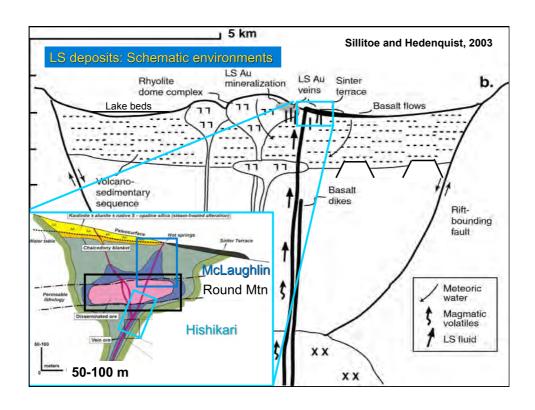


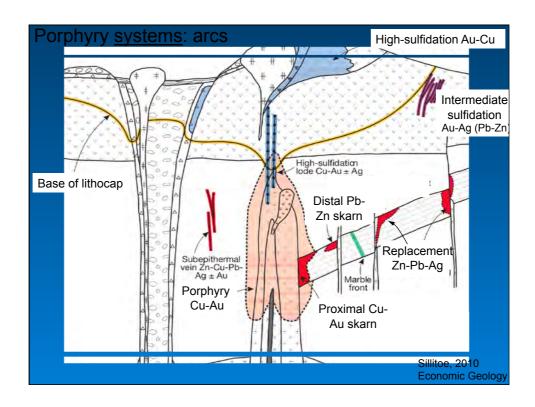




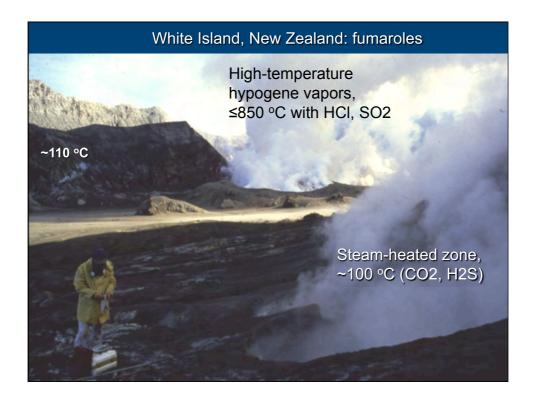


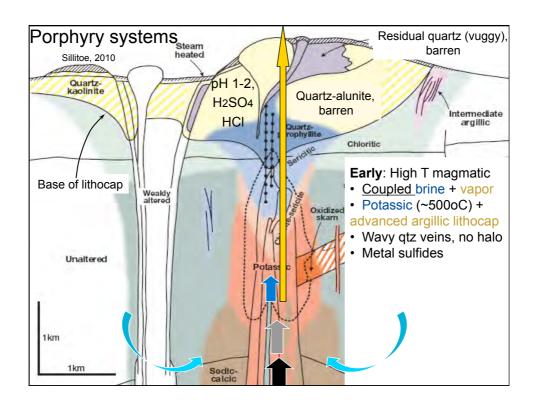


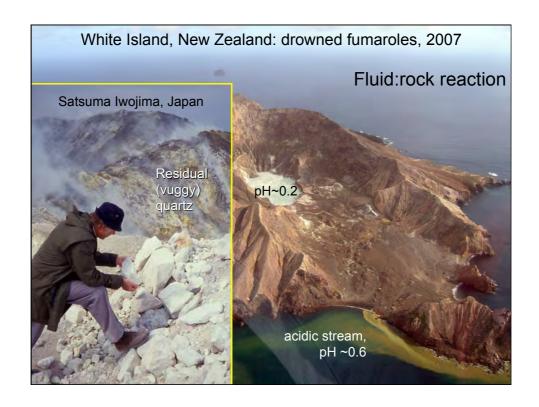




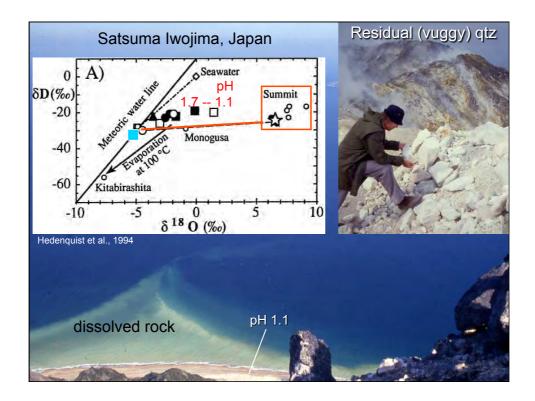


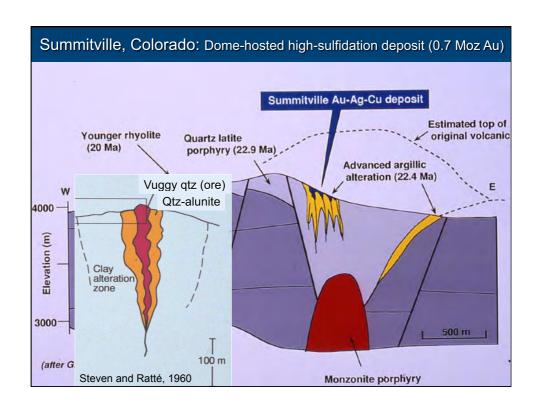


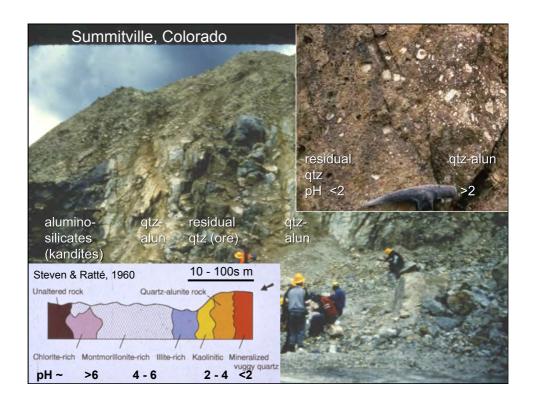


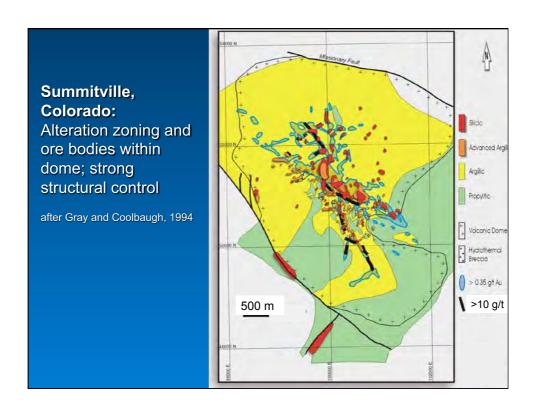


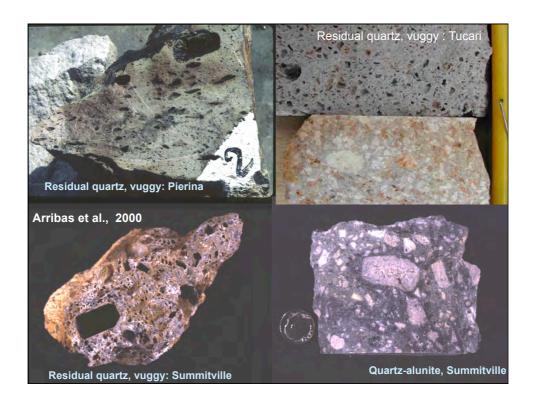


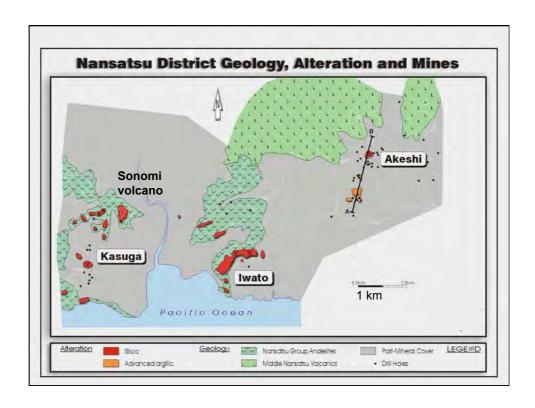


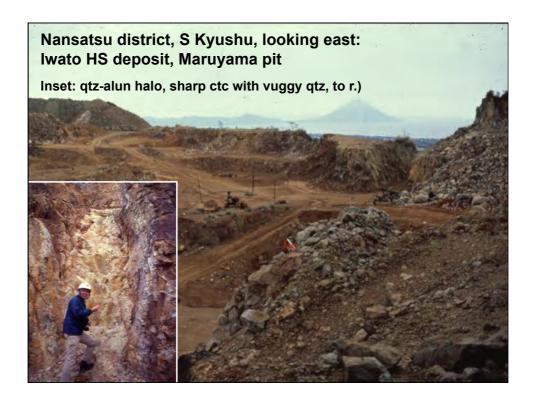


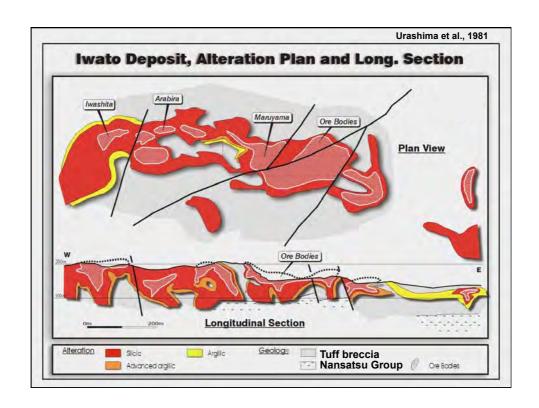




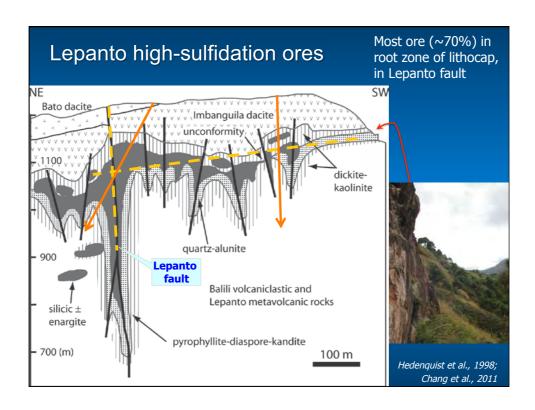


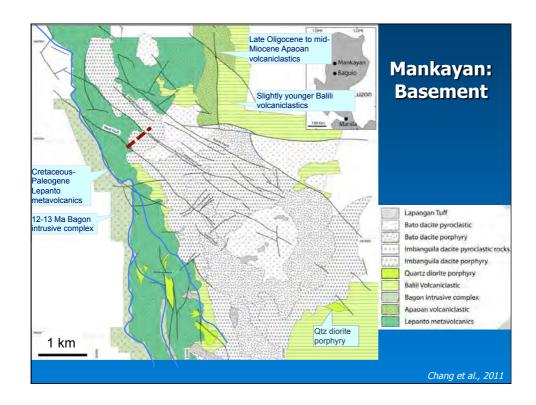


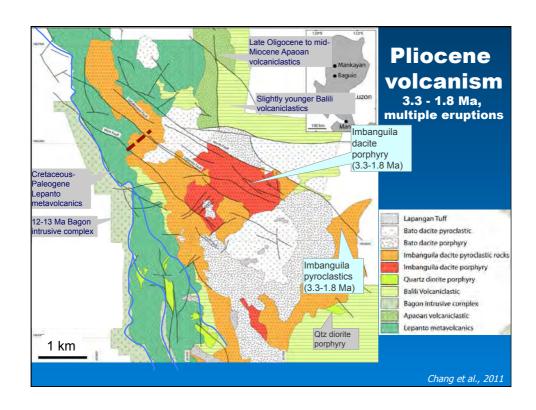


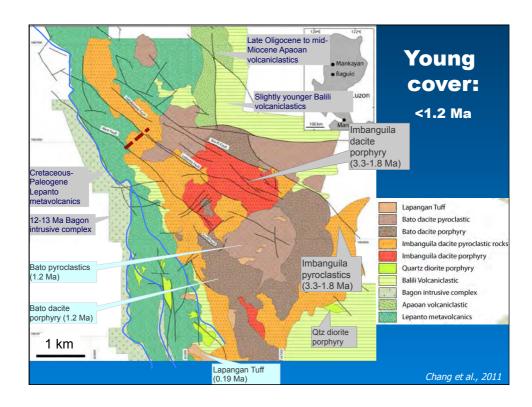


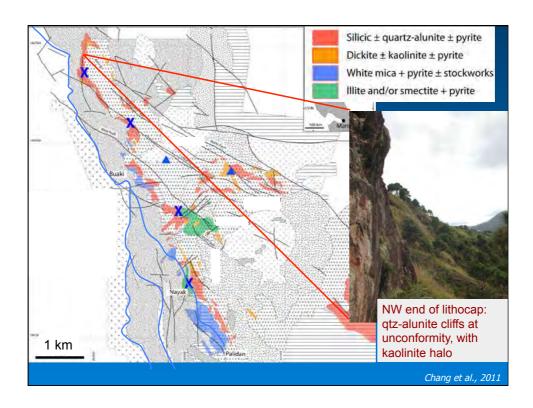


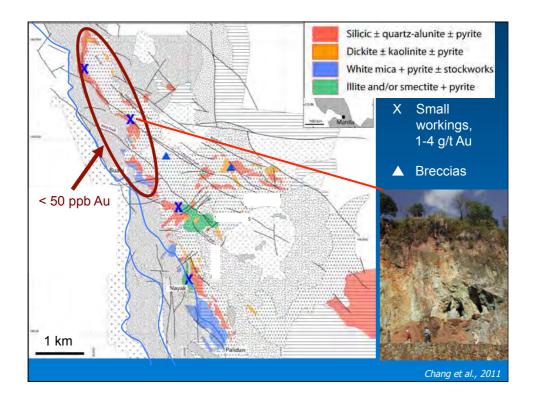


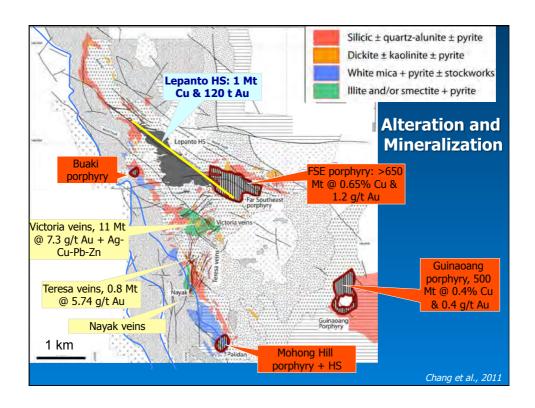


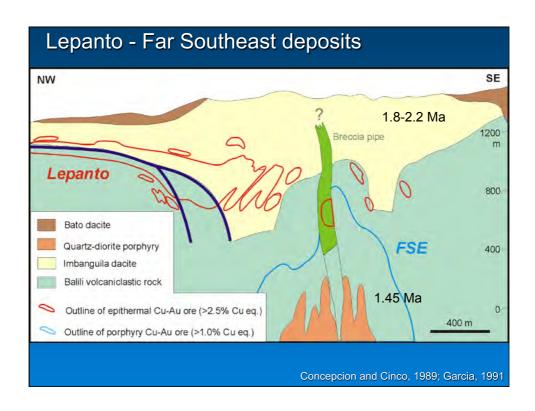


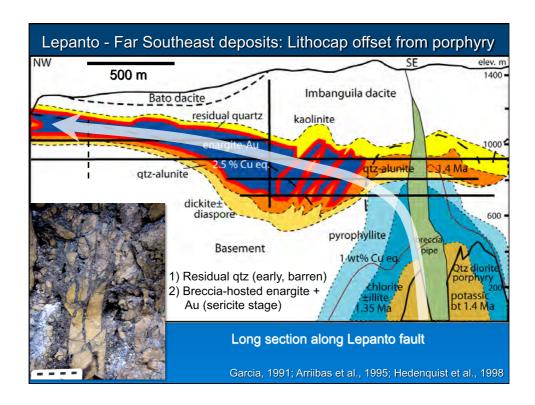


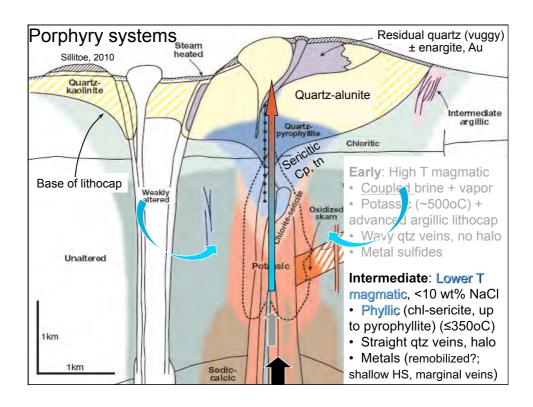


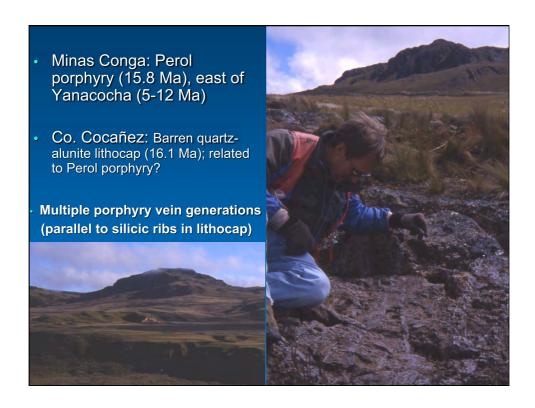


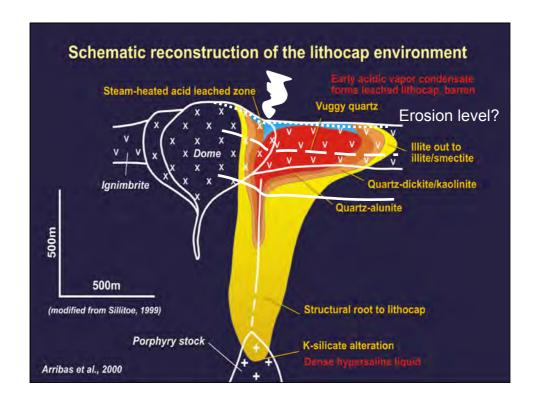


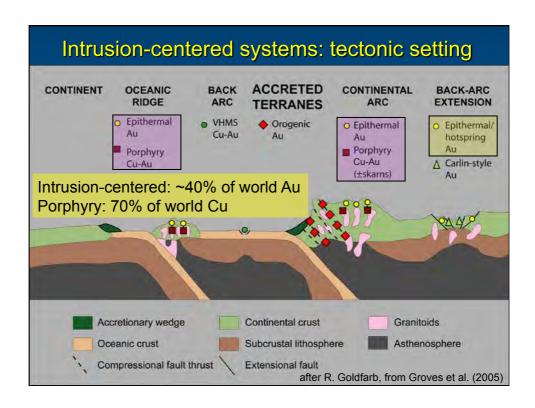


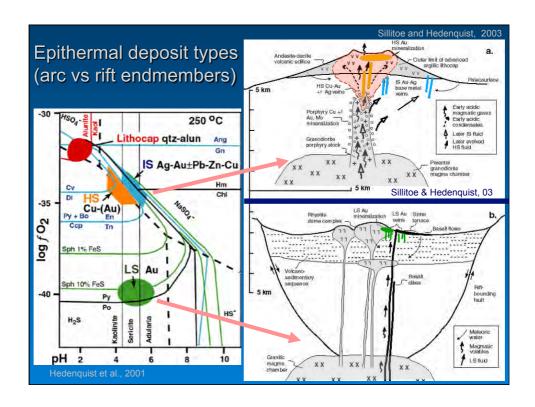


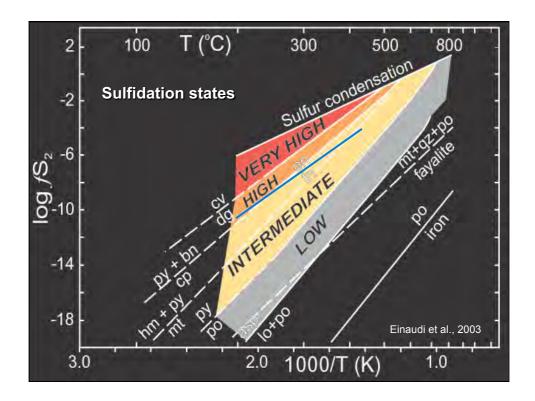


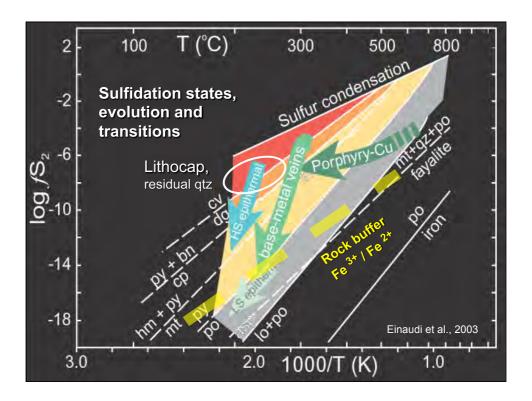












Exploration for epithermal Au-Ag vein deposits

- Large variations between deposit types and districts
- Model the prospect, do not fit prospect to the model
- Beware generalizations
- Paleosurface estimation, hydrology, erosion level
 - Lithology: volcanic (alteration) history, effect on permeability
 - Structure: relation to lithology, paragenesis (and ore)
 - Alteration mineralogy: assemblage, paragenesis, and zonation
 - · Vein textures and mineralogy: shallow, barren levels
 - Distinguish style of deposit and hence possible morphology
 - Use the right tool, at right time: orientation surveys

