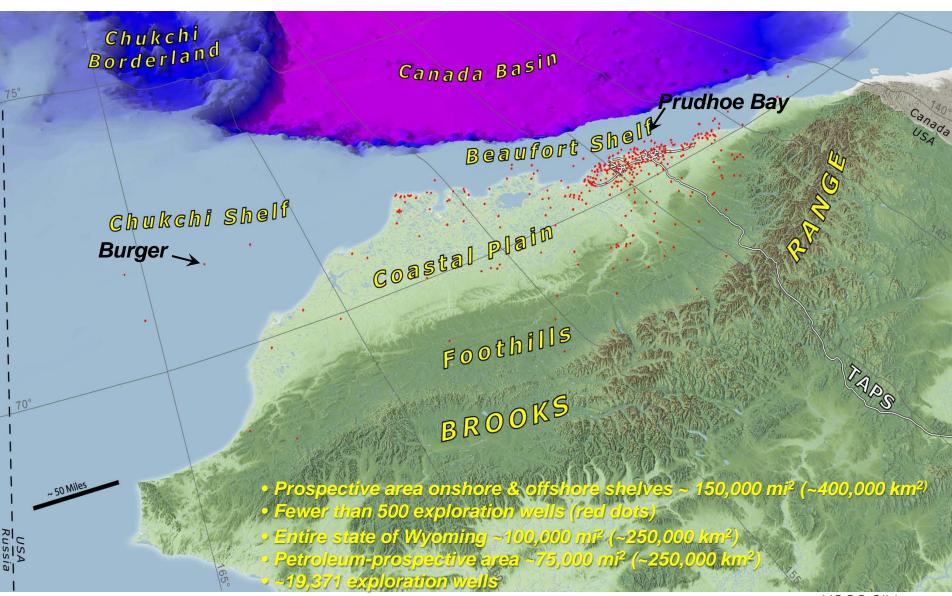
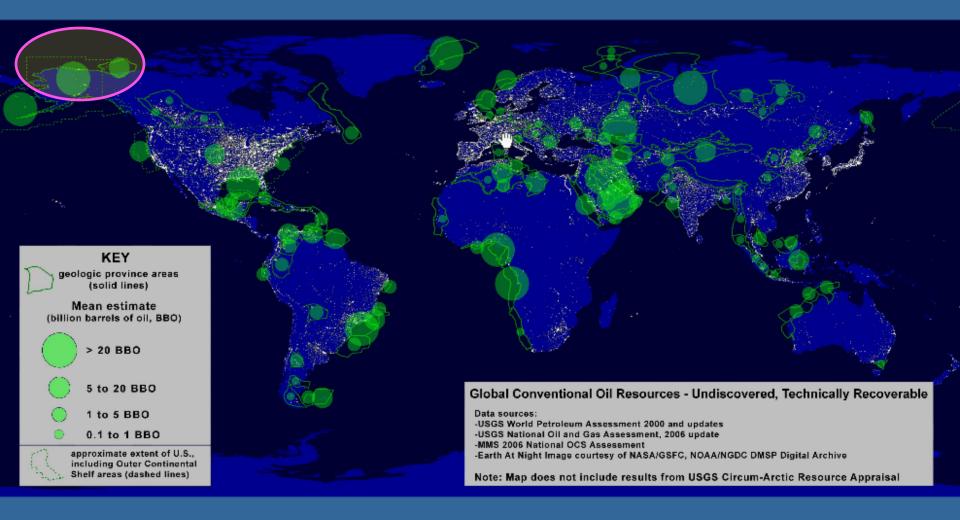
Arctic Alaska Conventional Oil & Gas Exploration Potential

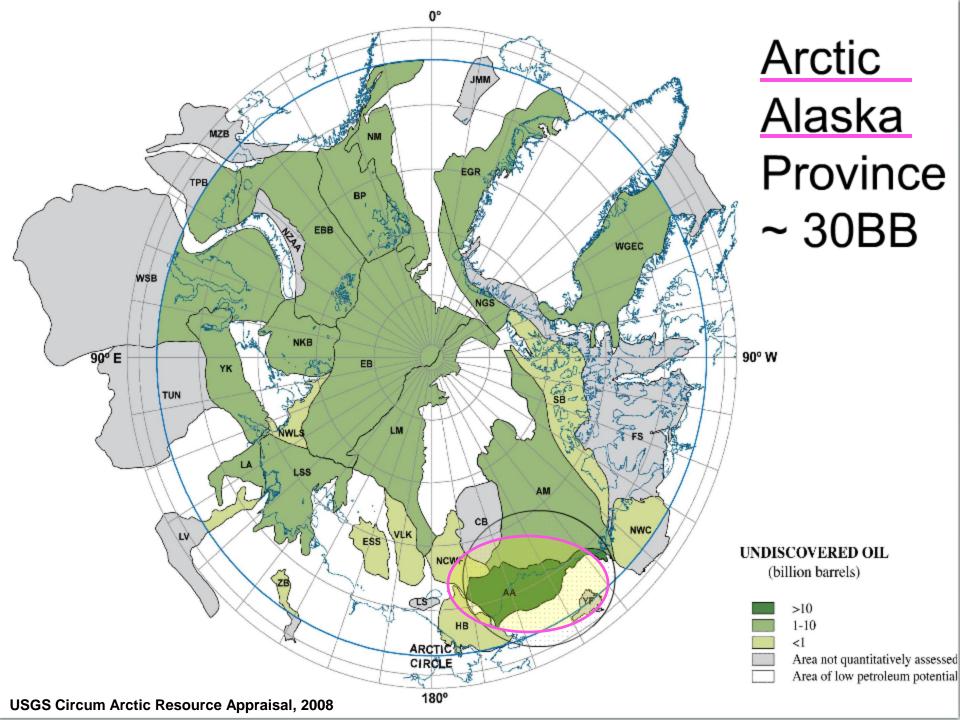


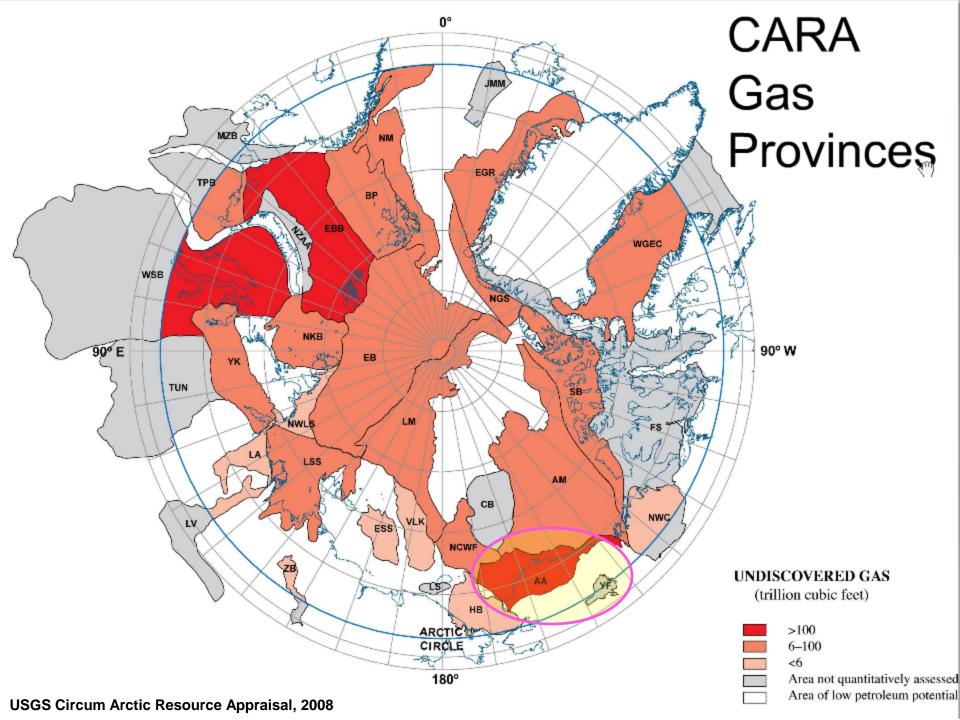
Global Conventional Oil Resources



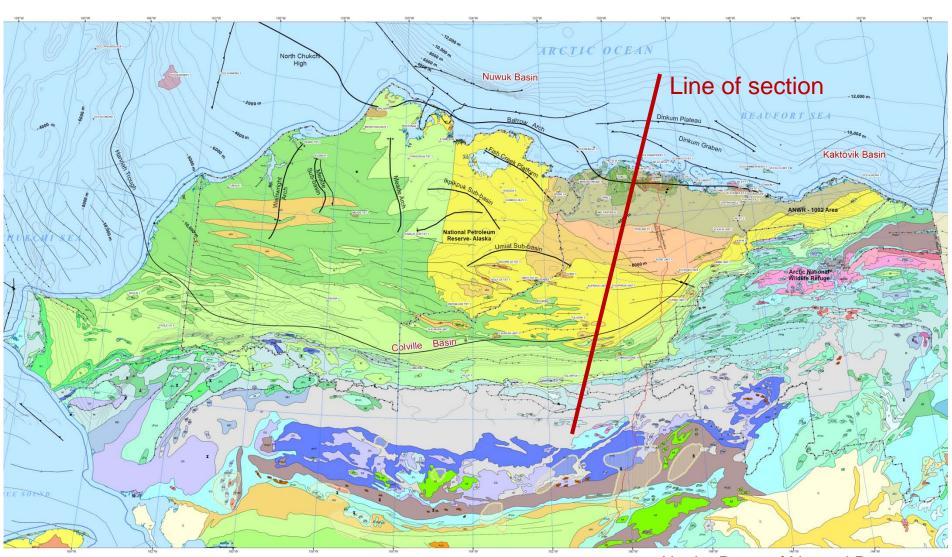


Note: Does not include results from USGS Circum-Arctic Oil and Gas Resource Appraisal study.



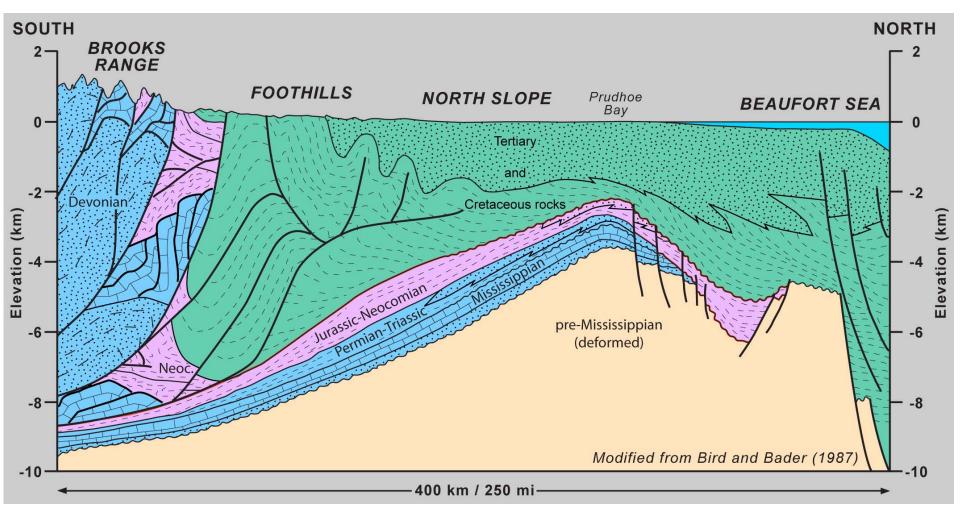


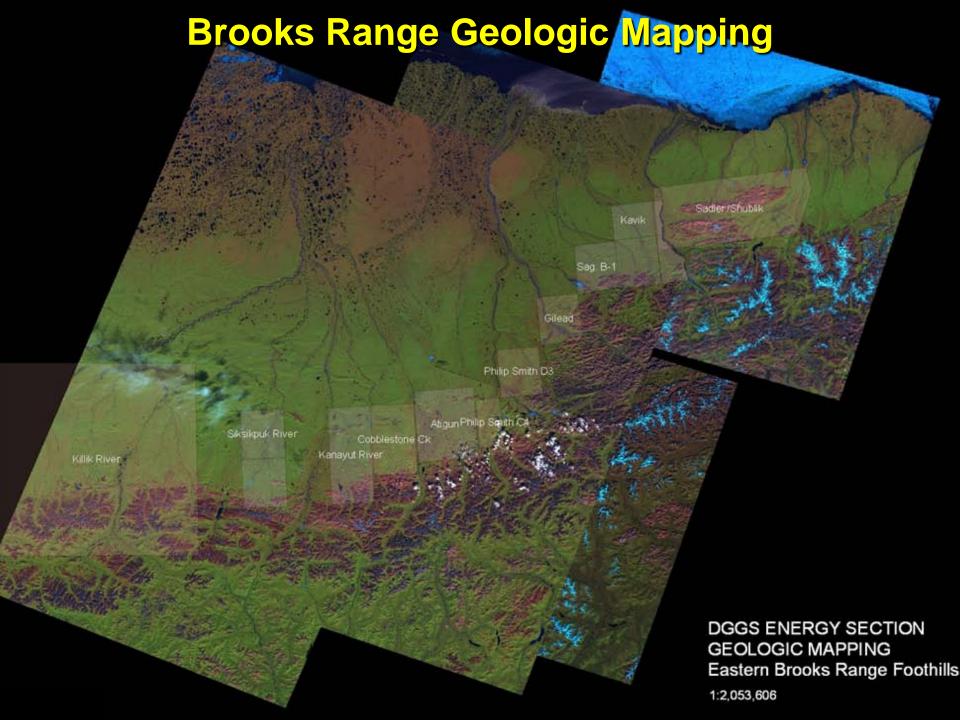
North Slope Regional Geology



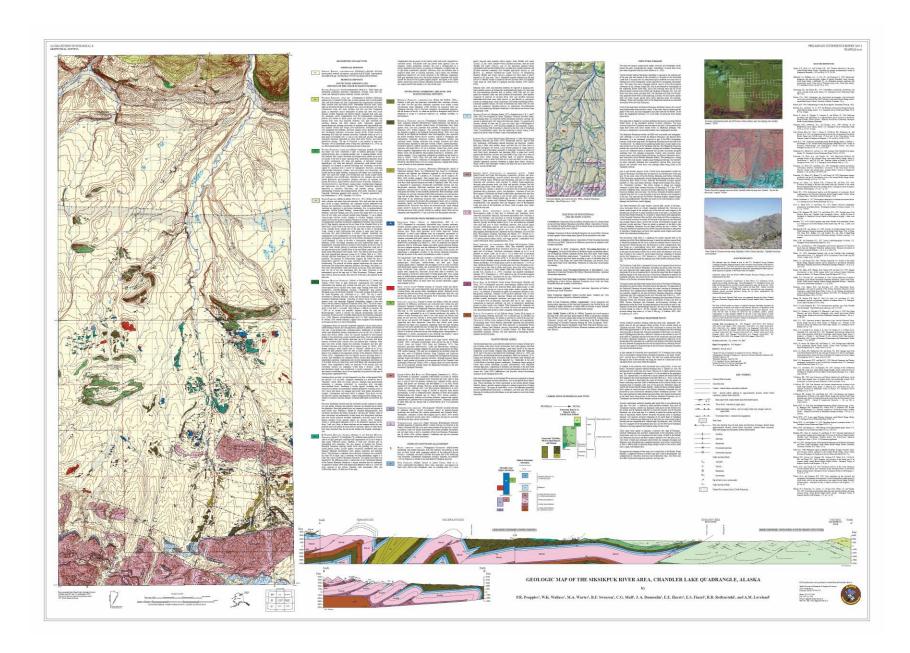
Alaska Dept. of Natural Resources Division of Oil & Gas

Simplified and Generalized Regional Cross-section



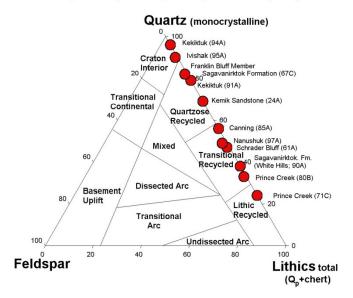


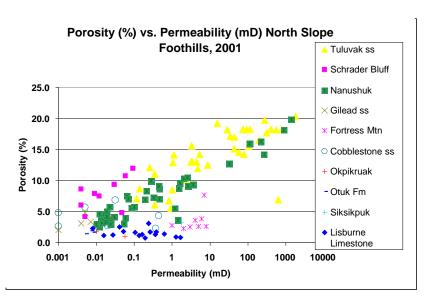
Geologic Mapping

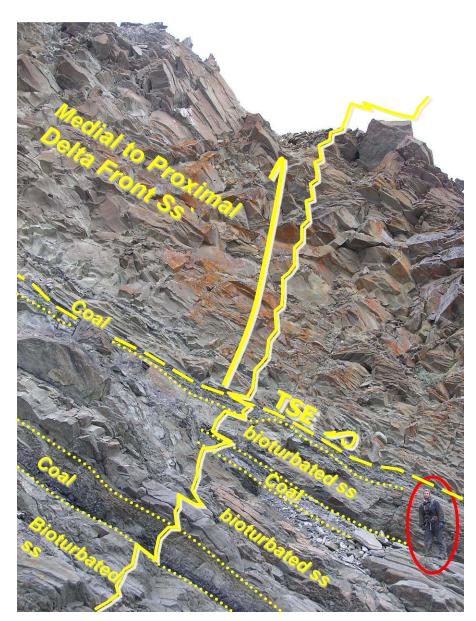


Topical Petroleum-related Studies

Quartz (monocrystalline)-Feldspar-Lithics (total)

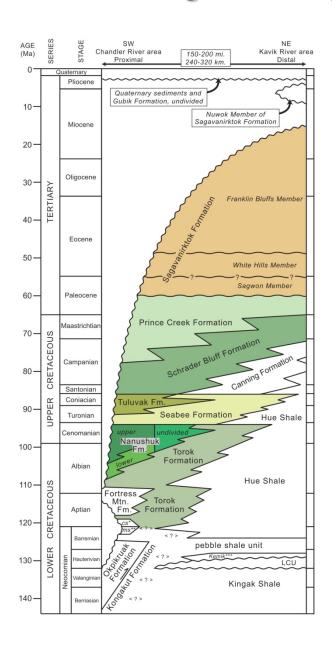


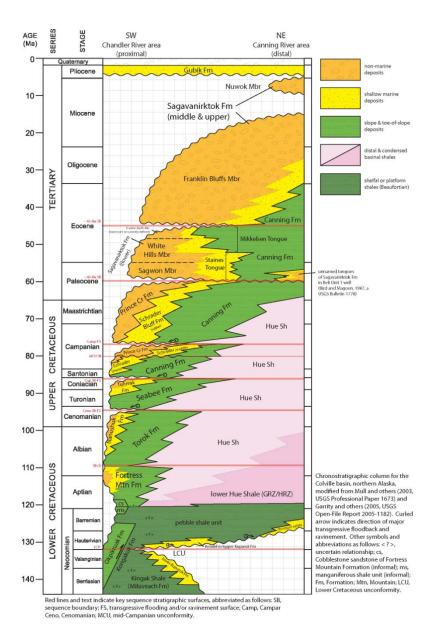




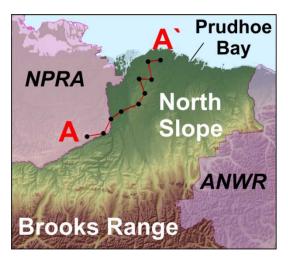
Killik Bend non-marine to deltaic succession, highstand aggradational system tract

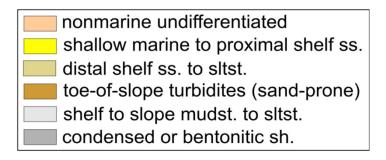
Revising and Codifying Stratigraphic Nomenclature

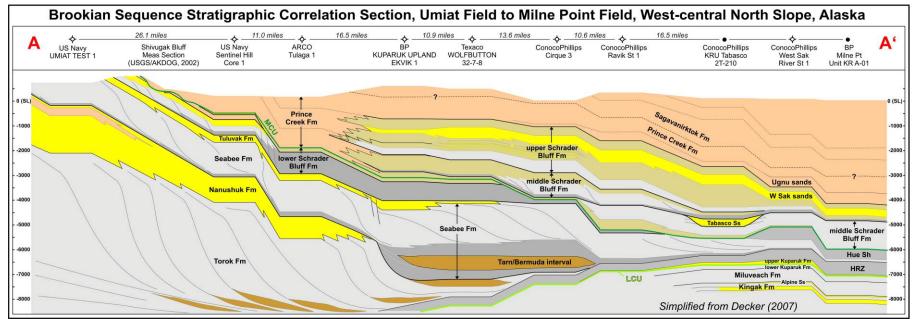




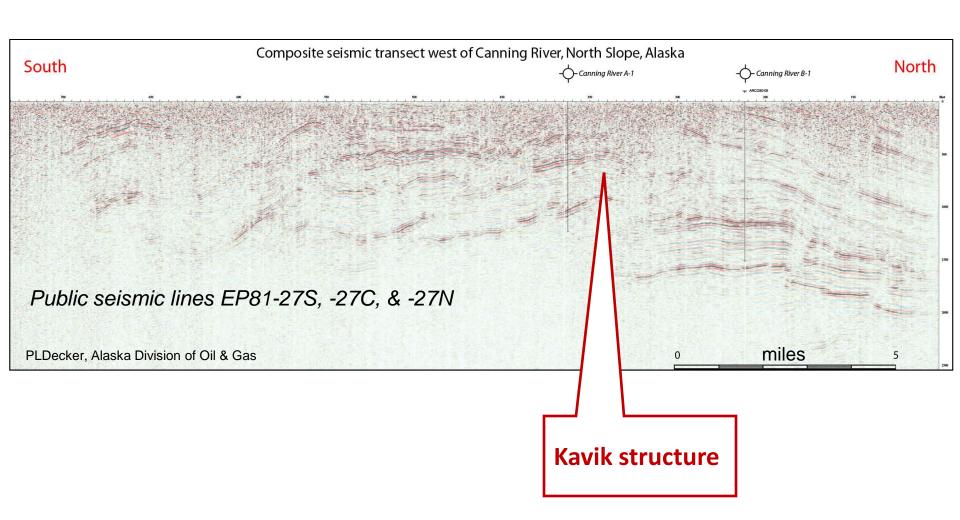
Merging Surface and Subsurface Data



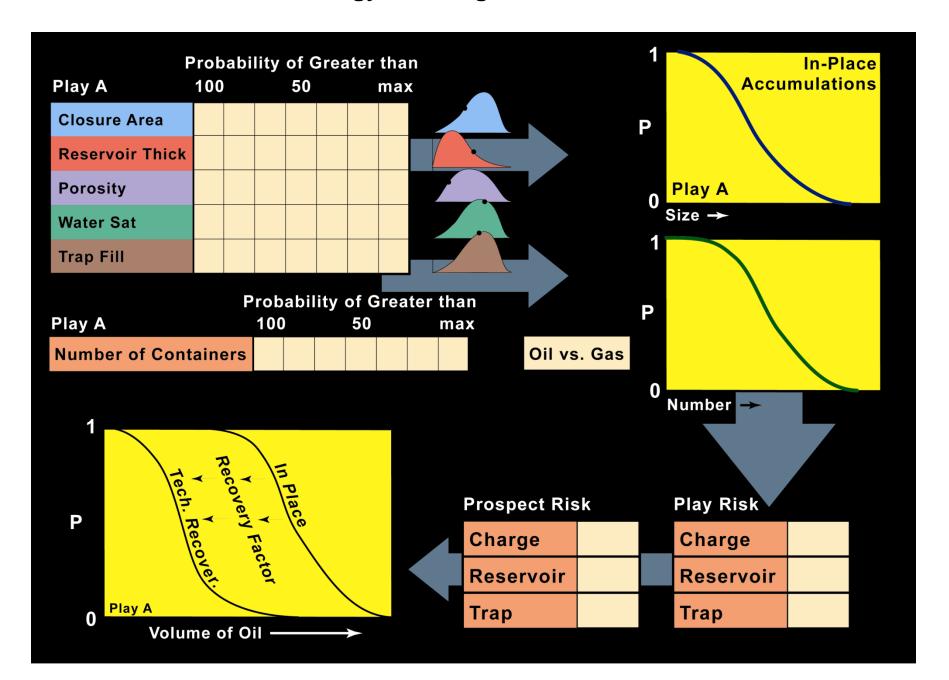




Foothills Structural Plays Seismic Interpretation

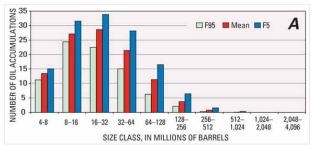


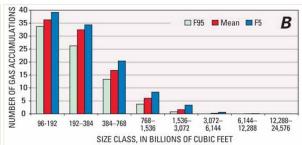
USGS Assessment Methodology – Geologic Basis



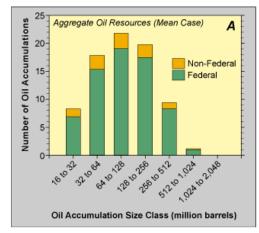
Undiscovered Mean Field Size Distributions - USGS

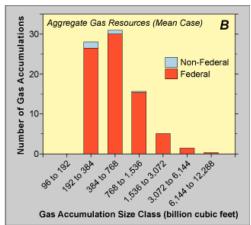
State Lands: ~1 undiscovered oil accumulation > 250 MMBO recoverable. ~ 2 undiscovered gas accumulations > 1.5 TCF recoverable.



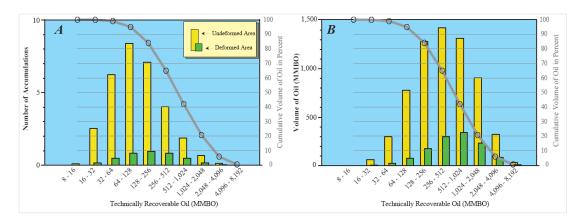


NPRA: ~11 undiscovered oil accumulations > 250 MMBO recoverable. ~7 undiscovered gas accumulations > 1.5 TCF recoverable.

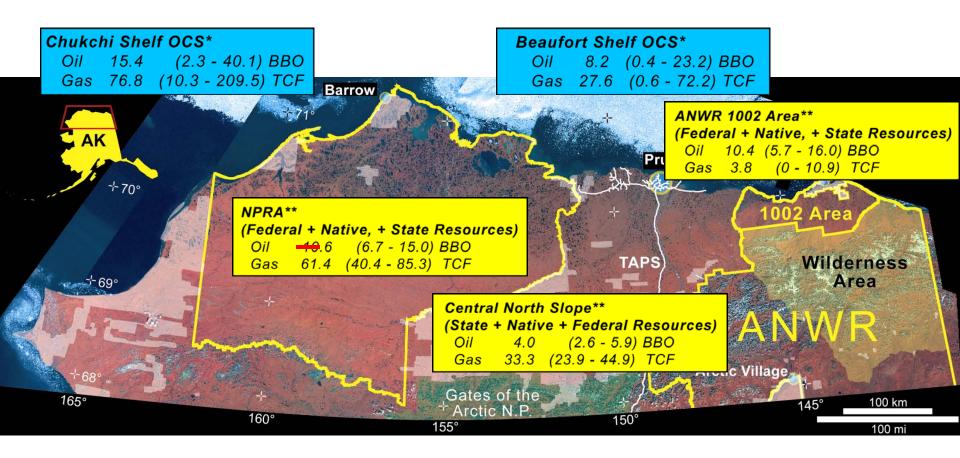




ANWR 1002: ~9 undis-covered oil accumulations > 250 MMBO recoverable (~65% of estimated total recoverable oil volume); gas resource not shown.



USGS Potential for Undiscovered Petroleum in Arctic Alaska



^{*} Oil includes crude oil + natural gas liquids Gas includes nonassociated + associated gas

^{**} Oil includes crude oil only
Gas includes nonassociated gas only

"Unconventional" Gas Resources (continuous resources)

