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7/5/2023

Petroleum-Related Publications by the Alaska Division of Geological & Geophysical Surveys (DGGS) Energy Resources Section

The following list is subdivided by basin. Publications focusing on the North Slope and Brooks Range foothills are shown first, followed by Cook Inlet basin. Publications addressing the geology of prospective interior sedimentary basins are shown last and include reports focusing on the Copper River, Holitna, Nenana, Susitna, and Yukon Flats basins. Nearly all publications listed are available free of charge from the DGGS website: http://dggs.alaska.gov/publications/index.php

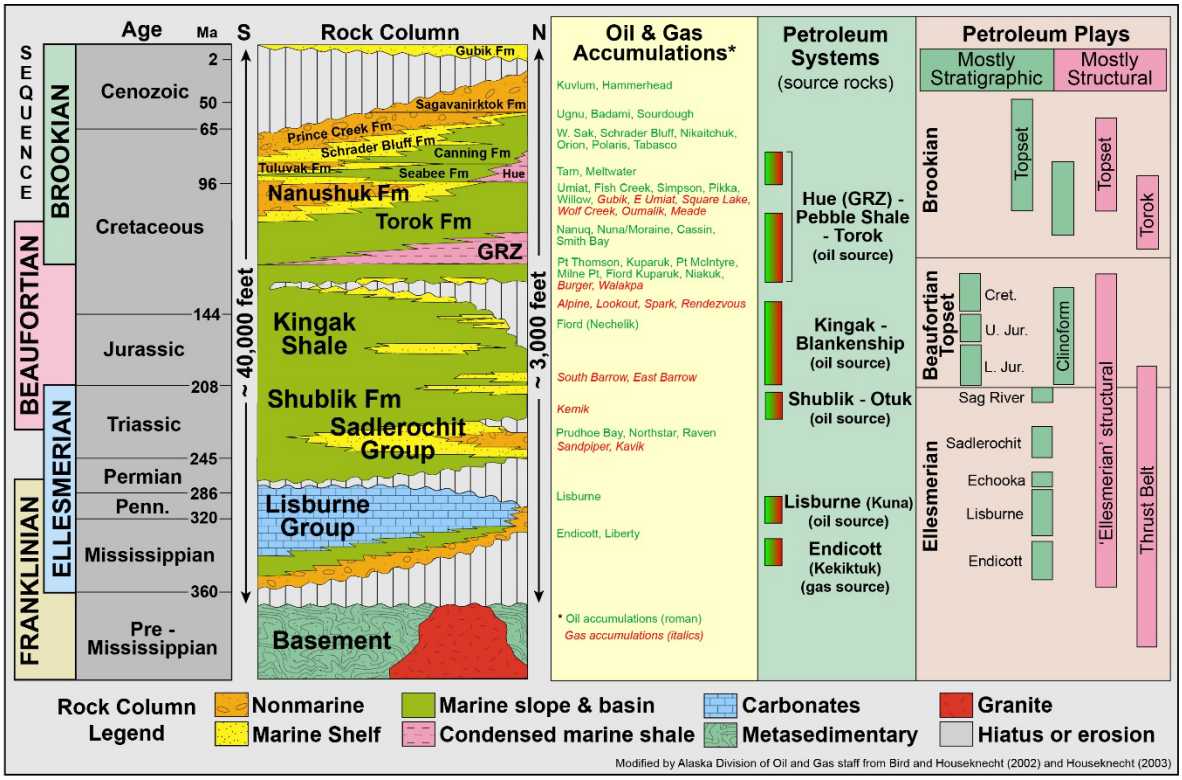
In addition to these publications, data reports by third party agencies or companies that conducted sampling of geologic materials archived at the DGGS Geologic Materials Center are available free of charge from the DGGS website:
http://dggs.alaska.gov/pubs/series/dggs/geologic-materials-center-data-report

Note that this list only includes maps and papers published through DGGS; other important publicly available data have also been released through the following:

- United States Geological Survey
- Bureau of Ocean Energy Management (formerly MMS)
- Alaska Geologic Materials Center (part of DGGS)
- Alaska Division of Oil and Gas
- Alaska Oil and Gas Conservation Commission
- Alaska Geological Society
- Peer reviewed scientific journals and books.

North Slope and Brooks Range Foothills

The following list is subdivided into the three principal depositional megasequences recognized in North Slope petroleum exploration and development. From oldest to youngest these are Ellesmerian, Beaufortian, and Brookian.



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Houseknecht, D.W., 2003, Brookian stratigraphic plays in the National Petroleum Reserve - Alaska (NPRA): U.S. Geological Survey Open-File Report 03-039.

BROOKIAN

1. Helmold, K.P., and LePain, D.L., 2023, Controls on reservoir quality of the Nanushuk Formation (Albian-Cenomanian), North Slope, Alaska (poster): Alaska Geological Society Technical Conference, Anchorage, Alaska, April 22, 2023: Alaska Division of Geological & Geophysical Surveys, 1 sheet. https://doi.org/10.14509/31038

2. LePain, D.L., Harun, N.T., and Kirkham, R.A., 2022, Measured stratigraphic section, lower Nanushuk Formation (Albian), Slope Mountain (Marmot syncline), Alaska: Alaska Division of Geological & Geophysical Surveys Preliminary Interpretive Report 2022-1, 21 p., 1 sheet. https://doi.org/10.14509/30871

3. Flaig, P., van der Kolk, D., Herriott, T.M., and Wartes, M.A., 2022, Incorporating Digital Imaging Techniques into Outcrop Investigations of Alaska's North Slope Stratigraphy: Geological Society of America Annual Meeting, Denver, Colorado, October 9-12, 2022: https://gsa.confex.com/gsa/2022AM/webprogram/Paper383926.html

4. Herriott, T.M., Crowley, J.L., Wartes, M.A., LePain, D.L., and Schmitz, M.D., 2022, LA-ICPMS–CA-TIMS tandem dating of detrital zircon: Insights from n=1 MDAs of mid-Cretaceous Colville foreland basin strata, Slope Mountain, northern Alaska (presentation): Geological Society of America, Annual Meeting, Denver, Colorado, October 9-12, 2022: Alaska Division of Geological & Geophysical Surveys, 13 p. https://doi.org/10.14509/30912

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6. Helmold, K.P., and LePain, D.L., 2021, Sedimentary petrology, reservoir quality, and provenance of Albian–Cenomanian Nanushuk Formation sandstone, NPRA test wells, Umiat 18, and measured outcrop sections, central North Slope, Alaska, in LePain, D.L., and Helmold, K.P., eds., Sedimentology and reservoir quality of the Nanushuk Formation (Albian-Cenomanian) in cores from the National Petroleum Reserve–Alaska and adjoining state lands to the south: Alaska Division of Geological & Geophysical Surveys Report of Investigation 2021-4B, 31 p. https://doi.org/10.14509/30728

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9. LePain, D.L., Kirkham, R.A., and Montayne, Simone, 2021, Measured stratigraphic section, Nanushuk Formation (Albian-Cenomanian), Nanushuk River (Rooftop Ridge), Alaska: Alaska Division of Geological & Geophysical Surveys Preliminary Interpretive Report 2021-5, 8 p., 1 sheet. https://doi.org/10.14509/30744

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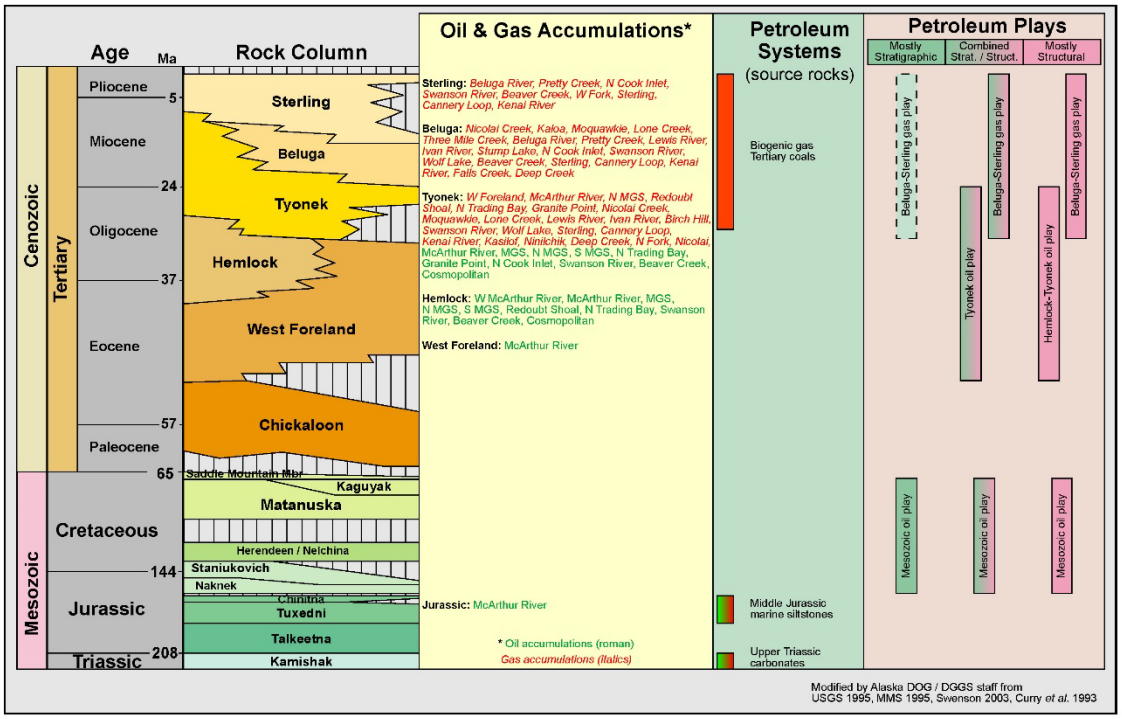
The following list focuses on the Cenozoic and Mesozoic geology of the Cook Inlet forearc and nearby regions. The Cenozoic succession is best exposed in upper Cook and most of these publications have a geographic focus in this part of the basin. The best exposures of the Mesozoic stratigraphy are located along the west side of the basin in lower Cook Inlet, so those publications have a geographic focus in this area. Publications focusing on the geology of the Alaska Peninsula are included here as many elements of the geology are directly relevant to the petroleum geology of the Cook Inlet basin.



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Interior Basins

The following list includes DGGS publications addressing selected sedimentary basins located inboard from Alaska's coastal areas. These basins are Cenozoic and largely filled with nonmarine, coal-bearing strata. Lacustrine successions may be important elements of the basin fill in the Nenana and Yukon Flats basins.

Copper River Basin

1. Wai K. Allen, Kenneth D. Ridgway, J.A. Benowitz, T.S. Waldien, S.M. Roeske, P.G. Fitzgerald, R.J. Gillis, 2022, Neogene sedimentary record of the evolution of a translated strike-slip basin along the Denali fault system: Implications for timing of displacement, composite basin development, and regional tectonics of southern Alaska. *Geosphere* 18 (2): 585–615. doi: https://doi.org/10.1130/GES02435.1

2. Gillis, R.J., Fitzgerald, P.G., Ridgway, K.D., Keough, B.M., Benowitz, J.A., and Allen, W.K., 2019, Overview of the new 1:25,000-scale geologic mapping of the McCallum-Slate Creek fault system, eastern Alaska Range, Alaska: Alaska Division of Geological & Geophysical Surveys Preliminary Interpretive Report 2018-3, 10 p. https://doi.org/10.14509/30136

3. Patrick J. Terhune, Jeffrey A. Benowitz, Jeffrey M. Trop, Paul B. O'Sullivan, Robert J. Gillis, Jeffrey T. Freymueller, 2019, Cenozoic tectono-thermal history of the southern Talkeetna Mountains, Alaska: Insights into a potentially alternating convergent and transform plate margin. *Geosphere*; 15 (5): 1539–1576. doi: https://doi.org/10.1130/GES02008.1

4. Decker, P.L., Gillis, R.J., Helmold, K.P., and Peterson, Shaun, 2012, Summary of fossil fuel and geothermal resource potential in the Copper River-Chugach energy region, in Swenson, R.F., Wartes, M.A., LePain, D.L., and Clough, J.G., Fossil fuel and geothermal energy sources for local use in Alaska: Summary of available information: Alaska Division of Geological & Geophysical Surveys Special Report 66E, p. 43-51. https://doi.org/10.14509/24428

5. Meyer, J.F., and Boggess, P.L., 2003, Principal facts for gravity data collected in the Copper River basin area, southcentral Alaska: Alaska Division of Geological & Geophysical Surveys Preliminary Interpretive Report 2003-2, 12 p. https://doi.org/10.14509/2944

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9. Alaska Division of Geological & Geophysical Surveys, 1985, Resource information - Copper River basin land-use plan, mineral and energy resources: Alaska Division of Geological & Geophysical Surveys Public Data File 85-15C, 4 sheets, scale 1:250,000. https://doi.org/10.14509/1098

10. Alaska Division of Geological & Geophysical Surveys, 1985, Resource information - Copper River basin land-use plan, geologic-literature references: Alaska Division of Geological & Geophysical Surveys Public Data File 85-15L, 4 sheets, scale 1:250,000. https://doi.org/10.14509/1107

11. Alaska Division of Geological & Geophysical Surveys, 1985, Resource information - Copper River basin land-use plan, interpreted geologic characteristics chart: Alaska Division of Geological & Geophysical Surveys Public Data File 85-15K, 1 sheet. https://doi.org/10.14509/1106

12. Wescott, E.M., and Turner, D.L., 1985, Preliminary report on the investigation of the geothermal energy resource potential of the eastern Copper River basin, Alaska: Alaska Division of Geological & Geophysical Surveys Public Data File 85-31, 113 p., 4 sheets, scale 1:63,360. https://doi.org/10.14509/1124

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Holitna Basin (includes Holitna lowland and Cenozoic Holitna basin)

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Susitna Basin

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5. Gillis, R.J., Herriott, T.M., and Tsigonis, R.M., 2015, Preliminary results of reconnaissance structural studies of the western Susitna basin, south-central Alaska, in Gillis, R.J., ed., Overview of 2014 energy-focused studies in Susitna basin, south-central Alaska, and preliminary results: Alaska Division of Geological & Geophysical Surveys Preliminary Interpretive Report 2015-3-5, p. 25-34. http://doi.org/10.14509/29469

6. Gillis, R.J., 2015, Overview of 2014 energy-focused field studies in Susitna basin, south-central Alaska, and preliminary results, in Gillis, R.J., ed., Overview of 2014 energy-focused studies in Susitna basin, south-central Alaska, and preliminary results: Alaska Division of Geological & Geophysical Surveys Preliminary Interpretive Report 2015-3-1, p. 1-4. http://doi.org/10.14509/29465

7. LePain, D.L., Stanley, R.G., Harun, N.T., Helmold, K.P., and Tsigonis, R.M., 2015, Reconnaissance stratigraphic studies in the Susitna basin, Alaska, during the 2014 field season, in Gillis, R.J., ed., Overview of 2014 energy-focused studies in Susitna basin, south-central Alaska, and preliminary results: Alaska Division of Geological & Geophysical Surveys Preliminary Interpretive Report 2015-3-2, p. 5-10. http://doi.org/10.14509/29466

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central Alaska, from geochronology and biostratigraphy [poster]: GSA Cordilleran Section Meeting, Fresno, CA, May 22, 2013: Alaska Division of Geological & Geophysical Surveys, 1 sheet. https://doi.org/10.14509/26887

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Yukon Flats Basin

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