

## **A. Guide to online sources**

### *A.1 Alaska Geologic Materials Center Google Earth Inventory*

Since the inception of this project the Alaska Geologic Materials Center (GMC) in Eagle River, Alaska, has developed a Google Earth inventory of available materials and sample locations. The inventory is available for download at the GMC website:

[www.dggs.alaska.gov/gmc/inventory.php](http://www.dggs.alaska.gov/gmc/inventory.php). It is possible to navigate to any well site in the National Petroleum Reserve Alaska, for instance, and query available core samples, slides, and associated publications. This helped me focus on well sites with good coring records. List of formation top picks also allowed me to better understand subsurface geology in areas outside of my immediate study area.

### *A.2 USGS Central Region Core Research Center Administration*

The federal core repository in Lakewood, Colorado maintains an online database of federal wells and associated data. I used the website: <http://my.usgs.gov/crcwc/map> to download core photos from wells I either could not examine in person or did not photograph. These photos were especially helpful in subsurface interpretations of the Wolf Creek, Square Lake, and Grandstand well locations on the North Slope.

### *A.3 Ocean Drilling Stratigraphic Network Plate Tectonic Reconstructions*

This resource is very useful for any geologist concerned with tectonic evolution of a region. The website [www.odsn.de/odsn/services/paleomap/paleomap.html](http://www.odsn.de/odsn/services/paleomap/paleomap.html) has an interface that allows the user to generate a plate tectonic map for a given age (in millions of years). The user can select latitudinal and longitudinal boundaries, as well as the map projection. I used the interface to create Arctic maps of tectonic plates and terranes during the Albian using the polar orthographic projection, limiting my latitude to 60-90° N. The reconstructions are based on the work of Hay et al. (1999; see Chapter 3), and full citations and data files are available from the website.

#### *A.4 GeoReM*

The GeoReM website (<http://georem.mpch-mainz.gwdg.de/>) is an online repository of geochemical standard data. Users submit tabulated elemental concentrations and errors for standards that are used in routine X-ray fluorescence spectrometry (XRF) and induced-coupled plasma mass spectrometry (ICP-MS) analyses. It is possible to search by standard or by element to access standard information to compare to my XRF results. I used the "preferred" or "recommended" data, though other sources are available.