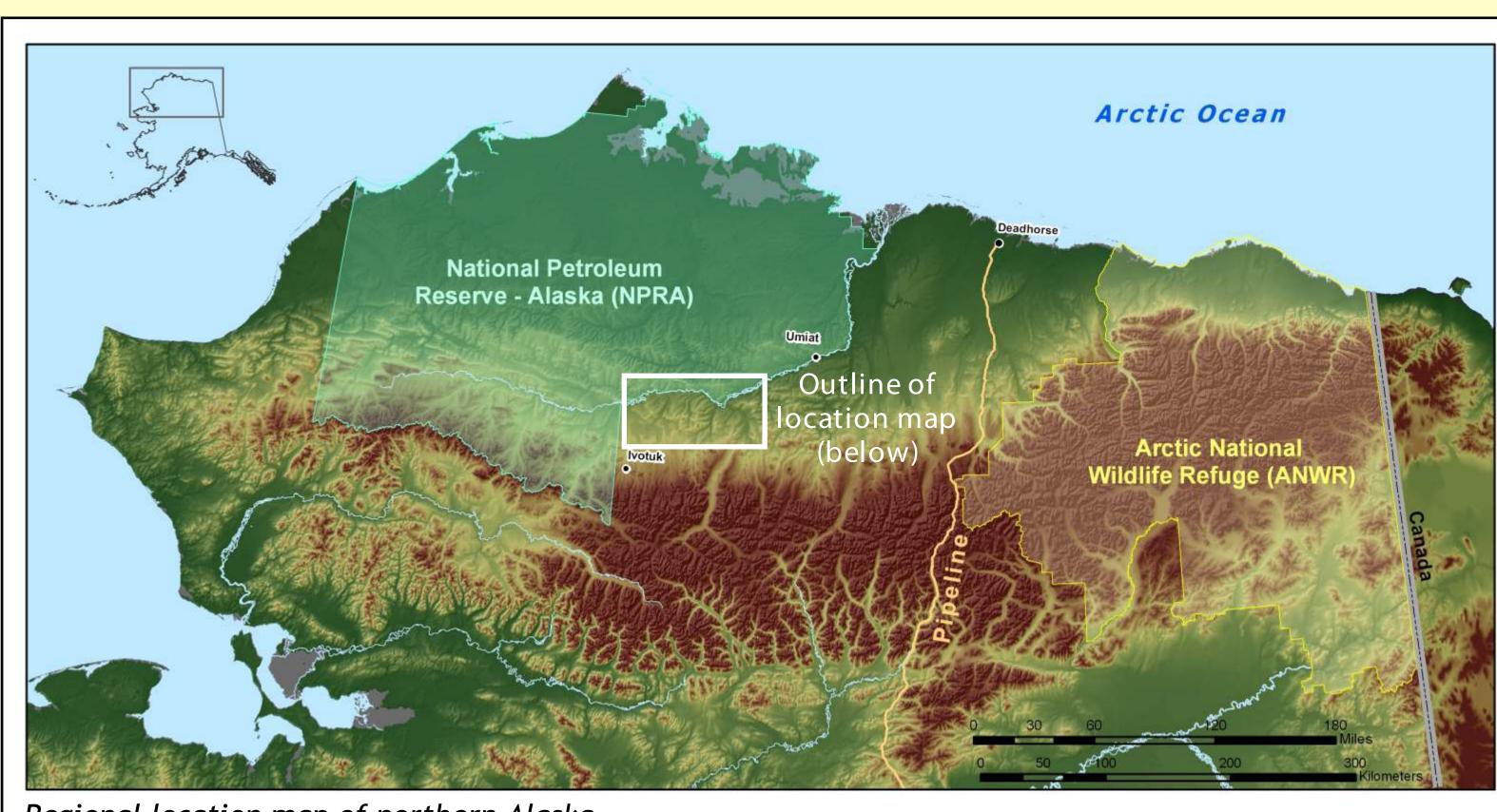
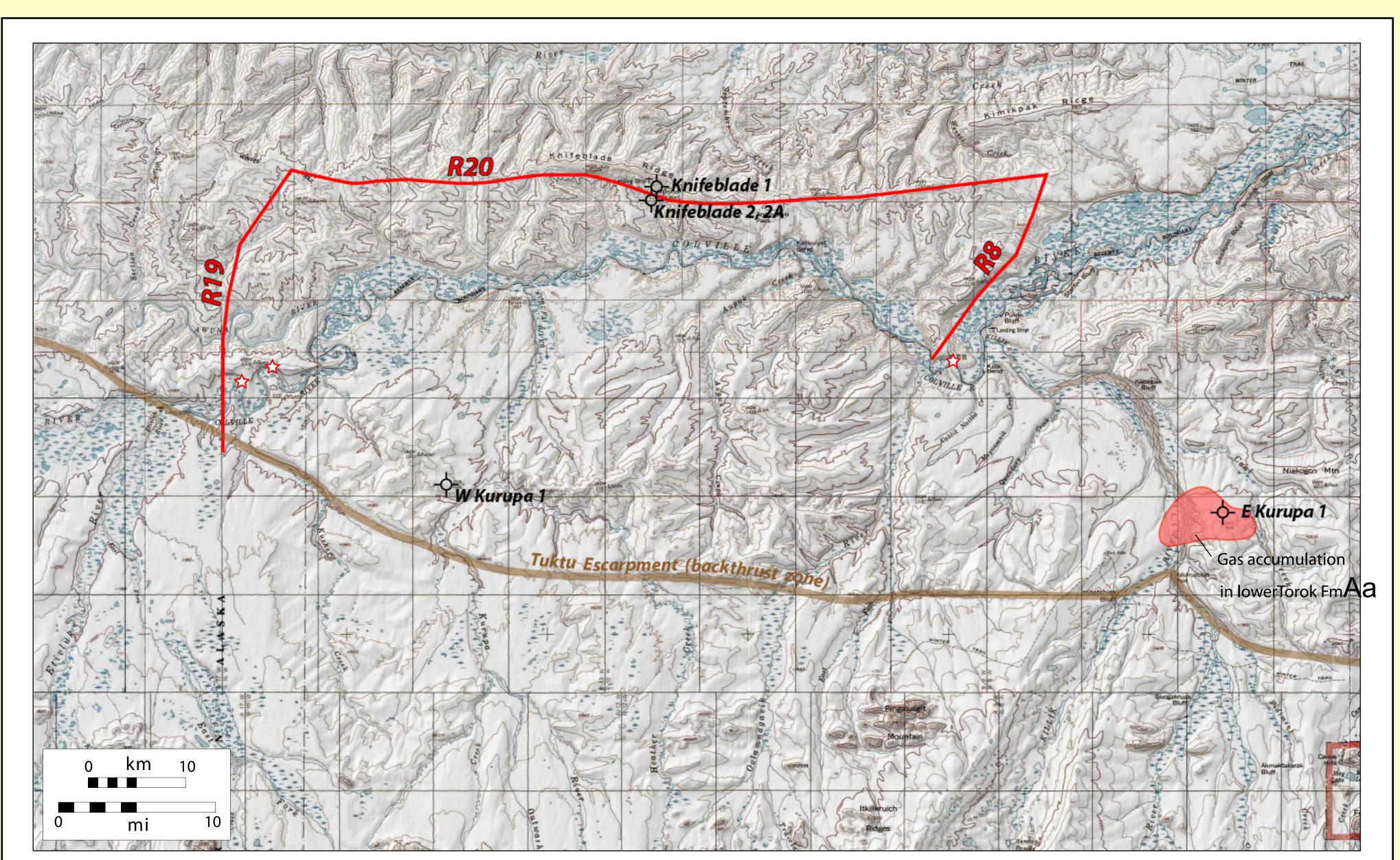
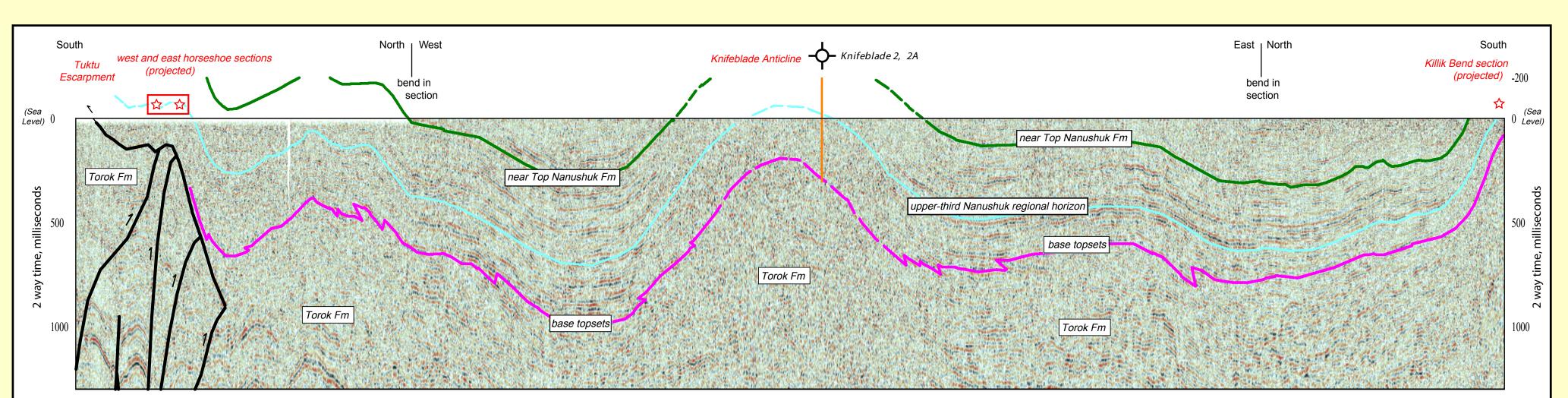
## Regional Location and Seismic Constraints on Stratigraphic Position of Nanushuk Formation Measured Sections



Regional location map of northern Alaska



Topographic map (from USGS 1:250,000 coverage) illustrating position of measured sections along the Colville River, location of composite seismic traverse below, and area wells. The western horseshoe bend sections (06DL004, 06DL005, and 06DL006) are shown in Sheet 2; the eastern horseshoe bend section (06DL003) is shown in Sheet 3; the Killik Bend section (06DL007) is shown in Sheet 4.



Composite seismic section of portions of three lines\* (R19, R20, and R8; see map above for location) showing preliminary interpretations and the approximate locations of measured sections presented in this report. The red stars near the southwestern end mark the approximate location of the two horseshoe bend measured sections (western and eastern) on the Colville River (see sheets 2 and 3); the red star at the southeastern end projects the location of the measured section at Killik Bend on the Colville River (see sheet 4). Seismic data are cut off at sea level in this section, so the surface exposures appear in the white space above the reflectors. We interpret the stratigraphic interval addressed in this study (near the cyan horizon) to represent the lower to middle part of the Nanushuk Formation in this area (but within the younger one-third of the time-transgressive Nanushuk Formation in a regional sense). The magenta records the time-transgressive, transitional boundary between Nanushuk Formation topsets and Torok Formation clinoforms. Structures near the southwest end of the traverse are interpreted as a complex duplex within the Tuktu Escarpment triangle zone.

\*Miller, J.J., Agena, W.F., Lee, M.W., Zihlman, F.N., Grow, J.A., Taylor, D.J., Killgore, M., and Oliver, H.L., 2000, Regional seismic lines reprocessed using post-stack processing techniques: National Petroleum Reserve—Alaska: U.S. Geological Survey Open-File Report 00-286 (CD-ROM and http://pubs.usgs.gov/of/2000/ofr-00-0286/22RLINES.HTM).