

Project	USGS PI name	Region/Center	Partners	USGS funding	Other funding	Coastal Plain (1002 area) location of work	Timeline
Polar bear movements and denning	Todd Atwood	Alaska/ASC		\$422K (existing USGS Ecosystems), \$322 (additional USGS Ecosystems in FY18)		Off shore tagging	Continuation of ongoing work with special concentration in March 2018 on eastern Beaufort sea to increase observations of denning in the ANWR 1002 Area
Fish of nearshore Beaufort Sea	Vanessa Von Biela	Alaska/ASC	USFWS, University of Texas at Austin	\$150K USGS Ecosystems	\$?? K (University of Texas)	Coastal lagoons, estuaries and beaches	Continuation of summer fish sampling (2017-2019) along ANWR coast to compare with 1988-1991 sampling
Shoreline change	Li Erikson	Pacific/PCMSC	University of Texas at Austin, University of California Santa Cruz	\$?? K USGS	\$50K (SIR), \$?? (USGS)	Coastal bluffs and beaches	Continuing work in summer 2018
Shoreline change	David Houseknecht	Eastern/Reston		USGS Energy Resources Program		Across terrestrial locations of the 1002	Will reprocess vintage 2D seismic data to be delivered in July 2018. Conduct laboratory analysis of rock and oil samples collected from outcrops in ANWR and from nearby wells during FY2018.
3D seismic data of ANWR	David Houseknecht	Eastern/Reston		USGS Energy Resources Program		Across terrestrial locations of the 1002	Conduct during winters of 2018-2019 and 2019-2020. Initial 3D data will be available late FY 2019.
Caribou forage and movements	Heather Johnson	Alaska/ASC	Alaska Department of Fish and Game (ADF&G), Texas A&M University	\$350K USGS Ecosystems	\$75K ADF&G	Outside of 1002 area, but some tagged Central Herd animals migrate into 1002	Collaring and tracking animals through 2020, ongoing publication writing, new analysis of caribou habituation to existing infrastructure

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Fish of nearshore Beaufort Sea	Vanessa Von Biela	Alaska/ASC	USFWS, University of Texas at Austin University of Texas at Austin, University of California	\$150K USGS Ecosystems		Coastal lagoons, estuaries and beaches	Continuation of summer fish sampling (2017-2019) along ANWR coast to compare with 1988-1991 sampling
Shoreline change	Li Erikson	Pacific/PCMSC	Santa Cruz	\$50 K USGS Natural Hazards		Coastal bluffs and beaches	Continuing work in summer 2018
2D seismic data of ANWR	David Houseknecht	Eastern/Reston		USGS Energy & Minerals		Across terrestrial locations of the 1002	Will reprocess vintage 2D seismic data to be delivered in July 2018. Conduct laboratory analysis of rock and oil samples collected from outcrops in ANWR and from nearby wells during FY2018.
3D seismic data of ANWR	David Houseknecht	Eastern/Reston		USGS Energy & Minerals		Across terrestrial locations of the 1002	Conduct during winters of 2018-2019 and 2019-2020. Initial 3D data will be available late FY 2019.
Caribou forage and movements	Heather Johnson	Alaska/ASC	Alaska Department of Fish and Game (ADF&G), Texas A&M University	\$350K USGS Ecosystems	\$75K ADF&G	Outside of 1002 area, but some tagged Central Herd animals migrate into 1002	Collaring and tracking animals through 2020, ongoing publication writing, new analysis of caribou habituation to existing infrastructure

Project	USGS PI name	Region/Center	Partners	USGS FY18 funding	Other funding	Coastal Plain (1002 area) location of work	Timeline
Polar bear movements and denning	Todd Atwood	Alaska/ASC	USFWS	\$422K (existing USGS Ecosystems), \$322 (additional USGS Ecosystems in FY18)		Off shore tagging	Continuation of ongoing work with special concentration in March 2018 on eastern Beaufort sea to increase observations of denning in the ANWR 1002 Area
Fish of nearshore Beaufort Sea	Vanessa Von Biela	Alaska/ASC	USFWS, University of Texas at Austin	\$196K USGS/BOEM Outer Continental Shelf Program		Coastal lagoons, estuaries and beaches	Continuation of summer fish sampling (2017-2020) along ANWR coast to compare with 1988-1991 sampling
Shoreline change	Li Erikson	Pacific/PCMSC	University of Texas at Austin, University of California Santa Cruz	\$50 K USGS Natural Hazards		Coastal bluffs and beaches	Continuing work in summer 2018
2D seismic data of ANWR	David Houseknecht	Eastern/Reston		USGS Energy & Minerals		Across terrestrial locations of the 1002	Will reprocess vintage 2D seismic data to be delivered in July 2018. Conduct laboratory analysis of rock and oil samples collected from outcrops in ANWR and from nearby wells during FY2018.
3D seismic data of ANWR	David Houseknecht	Eastern/Reston		USGS Energy & Minerals		Across terrestrial locations of the 1002	Conduct during winters of 2018-2019 and 2019-2020. Initial 3D data will be available late FY 2019.
Caribou forage and movements	Heather Johnson	Alaska/ASC	Alaska Department of Fish and Game (ADF&G), Texas A&M University	\$350K USGS Ecosystems	\$75K ADF&G	Outside of 1002 area, but some tagged Central Herd animals migrate into 1002	Collaring and tracking animals through 2020, ongoing publication writing, new analysis of caribou habituation to existing infrastructure

Project	USGS PI name	Region/Center	Partners	USGS FY18 funding	Other funding	Coastal Plain (1002 area) location of work	Timeline
Polar bear movements and denning	Todd Atwood	Alaska/ASC	USFWS	\$422K (existing USGS Ecosystems), \$322 (additional USGS Ecosystems in FY18)		Off shore tagging	Continuation of ongoing work with special concentration in March 2018 on eastern Beaufort sea to increase observations of denning in the ANWR 1002 Area
Fish of nearshore Beaufort Sea	Vanessa Von Biela	Alaska/ASC	USFWS, University of Texas at Austin	\$196K USGS/BOEM Outer Continental Shelf Program		Coastal lagoons, estuaries and beaches	Continuation of summer fish sampling (2017-2020) along ANWR coast to compare with 1988-1991 sampling
Shoreline change	Li Erikson	Pacific/PCMSC	University of Texas at Austin, University of California Santa Cruz	\$50 K USGS Natural Hazards		Coastal bluffs and beaches	Continuing work in summer 2018
Reprocessing vintage 2D seismic data of 1002 Area	David Houseknecht	Eastern/Reston	BOEM	\$2,000,000 USGS Energy & Minerals (includes \$888,250 of 2017 money to be applied to reprocessing work carried out in 2018)		Across terrestrial locations of the 1002 and adjacent nearshore areas where ANWR seismic data was collected	Reprocessed vintage 2D seismic data to be delivered in July 2018. Interpretation and mapping based on that data through fourth quarter FY2018.
Sample collection (field work) and laboratory analysis	David Houseknecht	Eastern/Reston	FWS (logistical assistance), Alaska DNR (Geological & Geophysical Surveys, Division of Oil and Gas)	\$2,300,000 USGS Energy & Minerals		Across terrestrial locations of the 1002, adjacent state lands, and adjacent state and federal waters	Collect outcrop and well samples from external perimeter of 1002 Area, spring & summer 2018; conduct laboratory analyses on samples to determine petroleum prospectivity of region, summer & fall 2018.
Participate in leasing BLM workshops and transfer knowledge from ongoing research	David Houseknecht	Eastern/Reston	USGS supporting mission of BLM	\$200,000 USGS Energy & Minerals		Across terrestrial locations of the 1002	Provide support to BLM to inform preparation for lease sales in 1002 Area
Permafrost and climate data collection	Frank Urban	Southwest/GECS	BLM, FWS (collaborators)	~\$20K USGS Climate and Land Use		Across northern AK including locations of the 1002	Annual field work during summer 2018 possibly coincident with Houseknecht's field season; network is part of the Global Terrestrial Network for Permafrost (GTN-P)
Caribou forage and movements	Heather Johnson	Alaska/ASC	Alaska Department of Fish and Game (ADF&G), Texas A&M University	\$350K USGS Ecosystems	\$75K ADF&G	Outside of 1002 area, but some tagged Central Herd animals migrate into 1002	Collaring and tracking animals through 2020, ongoing publication writing, new analysis of caribou habituation to existing infrastructure

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Polar bear movements and denning	Todd Atwood	Alaska/Alaska Science Center (ASC)	USFWS	\$422K (existing USGS Ecosystems), \$322K (additional USGS Ecosystems in FY18)		Off shore tagging	Continuation of ongoing work with special concentration in March 2018 on eastern Beaufort sea to increase observations of denning in the ANWR 1002 Area
Fish of nearshore Beaufort Sea	Vanessa Von Biela	Alaska/ASC	USFWS, University of Texas at Austin	\$196K USGS/BOEM Outer Continental Shelf Program		Coastal lagoons, estuaries and beaches	Continuation of summer fish sampling (2017-2020) along ANWR coast to compare with 1988-1991 sampling
Shoreline change	Li Erikson	Pacific/Pacific Coastal & Marine Science Center	University of Texas at Austin, University of California Santa Cruz	\$50K USGS Natural Hazards		Coastal bluffs and beaches	Continuing work in summer 2018
Reprocessing vintage 2D seismic data of 1002 Area	David Houseknecht	Midwest/Eastern Energy Resources Science Center	BOEM	\$2M USGS Energy & Minerals (includes \$888K of FY17 money to be applied to reprocessing work carried out in 2018)		Across terrestrial locations of the 1002 and adjacent nearshore areas where ANWR seismic data was collected	Reprocessed vintage 2D seismic data to be delivered in July 2018. Interpretation and mapping based on that data through fourth quarter FY2018.
Sample collection (field work) and laboratory analysis	David Houseknecht	Midwest/EERSC	FWS (logistical assistance), Alaska DNR (Geological & Geophysical Surveys, Division of Oil and Gas)	\$2.3M USGS Energy & Minerals		Across terrestrial locations of the 1002, adjacent state lands, and adjacent state and federal waters	Collect outcrop and well samples from external perimeter of 1002 Area, spring & summer 2018; conduct laboratory analyses on samples to determine petroleum prospectivity of region, summer & fall 2018.
Participate in leasing BLM workshops and transfer knowledge from ongoing research	David Houseknecht	Midwest/EERSC	USGS supporting mission of BLM	\$200K USGS Energy & Minerals		Across terrestrial locations of the 1002	Provide support to BLM to inform preparation for lease sales in 1002 Area
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