USGS International Polar Year Proposals as of 12/6/04

	Title	Principal Investigator(s)		Study Area: Antarctic	Study Area: Arctic	Location	Cooperators	Scope of Work
1	World Energy Project	*Tom Ahlbrandt/ Energy Team/ CR* *Don Gautier/Energy Team / WR*	*ahlbrandt@usgs.gov* *gautier@usgs.gov*		*Arctic*	United states, Canada, Greenland, Norway, Russia, Arctic Ocean	Norwegian Universtiy of Science and Technology, Statoil, ExxonMobil, Energy Information Administration, British Petroleum, Chevron Texaco, HIS Energy, Petro Canada, Geological Surveys of Denmark and Greenland, Department of Energy, Department of Defense	Energy resource assessments
2	Long Range Radio Frequency Tags for Polar and Brown Bear Research	*Steve Amstrup / ASC* *Dick Shideler* *Lori Quakenbush*	steven_amstrup@usgs.gov dick_shideler@fishgame.state.ak.us lori_quakenbush@fishgame.state.ak.us		Arctic	Arctic coast of Alaska	USGS, Alaska Department of Fish and Game, University of Alaska Fairbanks	Wildlife population and habitat assessment
3	Polar Bear survival in a vanishing sea ice environment	*Steven Amstrup / ASC* *George Durner / ASC* *David Douglas / ASC* *Geoff York / ASC*	steven_amstrup@usgs.gov		Arctic	Arctic coast of Alaska	Russian Academy of Sciences Canadian Wildlife Service UA-Fairbanks North Slope Borough US Fish & Wildlife Service	Wildlife monitoring
4	Eastern Prairie Population Canada Goose Research	*David Anderson / MN CRU*	dea@umn.edu		Arctic	Cape Churchill, Manitoba, Canada, and adjacent areas in Wapusk National Park	Mississippi Flyway Council, U.S. Fish and Wildlife Service, Canadian Wildlife Service, Manitoba Conservation, Minnesota Department of Natural Resources, Iowa Department of Natural Resources, Missouri Department of Conservation, Arkansas Game and Fish Commission, Illinois Department of Conservation, the Wildlife Management Institute, Parks Canada (Wapusk National Park)	Wildlife monitoring and assessment
5	Freshwater input and transport of selected water-quality constituents to the Beaufort Sea	*Tim Brabets / ASC* *Robert Holmes / WHOI* *Jim McClelland / WHOI*	tbrabets@usgs.gov rholmes@mbl.edu jmcclelland@mbl.edu		Arctic	North Slope of Alaska, Colville, Kuparuk, and Sagavanirktok Rivers, Northwest Canada Mackenzie River	University of Alaska, Fairbanks, Water Resource Center, International Arctic Research Center, University of Alaska Fairbanks, Bureau of Land Management, US Fish and Wildlife Service, Marine Biology Laboratory - Woods Hole, Massachusetts, Water Survey of Canada/Environment Canada	Flow modeling and water quality assessment

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6	Influence of Large River Deltas on Arctic Processes - emphasis on periods of global warmth and links between Arctic paleoceanography and global climate	*Tim Brabets / ASC*	tbrabets@usgs.gov		Arctic	Deltas of the Colville, Yukon-Kushikwlm, and Copper Rivers, Alaska; Severnaya Dvina, Pechora, Ob, Yenlsey, Koruy, Lena, Indigirka, and Kolyma Rivers of Russia and Mackenzie Rivers of Canada	USGS - Glaciology, Fairbanks, Alaska, Domaine Universitaire, Cedex, France, State Oceanographic Institute, Moscow, Russia	Water quality assessment
7	Geologic assessment of the occurrence of gas hydrates within the Circum-Arctic	*Tim Collett / Energy / CR* *Tom Lorenson / Coastal & Marine / WR*	tcollett@usgs.gov tlorenson@usgs.gov		Arctic	Circum-polar	University of Alaska, Fairbanks DOE, BLM, MMS Natural Resources Canada Geolgical Surve of Norway Geological Survey of Denmark Institute of Natural Gases, VNIIGAZ, Russia Moscow State University, Russia VNIIOkeangeologia, Russia	Energy resource assessments
8	Cenozoic Paleoclimate History of The Arctic	*Thomas M. Cronin / GD / ER* *Harry Dowsett / GD / ER*	tcronin@usgs.gov hdowsett@usgs.gov		Arctic	Central Arctic Ocean	USGS, NSF, Duke University, NASA, Integrated Ocean Drilling Program	Climate history for climate modeling
9	Surficial Processes in the Arctic - Understanding a Changing Environment	*Janet Curran / ASC* *Chris Waythomas / ASC* *Larry Hinzman / UAF* *Jim McNamara / BSU*	jcurran@usgs.gov chris@usgs.gov ffdh@uaf.edu jmcnamara@usgs.gov		Arctic	Alaska North of Arctic Circle	University of Alaska and Boise State University	Watershed GIS and modeling/surficial processes
10	Coastal erosion in Arctic and sub-Arctic Alaska	*Janet Curran / ASC*	jcurran@usgs.gov		Arctic	Coastal regions of Alaska along the Bering and Chukchi Seas	AWI / Arctic Coastal Dynamics Program USGS Coastal and Marine Program	Coastal erosion assessment
11	Gamburtsev Aerogeophysical Mapping of Bedrock and Ice Targets (GAMBIT)	*Carol Finn / CIC / Denver* *Robin Bell / LDEO* *Michael Studinger / LDEO* *Prasad Gogineni, & David Braatan (U. of Kansas)* *Linda Hayden (Elizabeth City State University*	cfinn@usgs.gov	Antarctic	Arctic	East Antarctica	John Goodge (U. Minn., Duluth), Detlef Damaske (German Geological Survey), Chris Wilson (U. Melbourne), Wilfried Jokat (Alfred Wegener Institute)	Areogeophyscial survey
12	Science for a Changing Climate - Alaska, Federal Land Management Agencies and the Future	*Joan Fitzpatrick / CRDO Denver*	jfitz@usgs.gov		Arctic	Alaska	FWS, NPS, USFS, UAF, State of Alaska Environment Canada	Ecological succession modeling and monitoring networks
13	Bring the Aerial Photography Resources of the 20th Century into the 21st.	*Cheryl A. Hallam / ERG* *Daniel Sechrist / ERG*	challam@usgs.gov dsechrist@usgs.gov	Antarctic	Arctic		USGS, Gateway Antarctica, University of Canterbury, Christchurch, New Zealand	Digital data creation (aerial photographs) and dissemination

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14	Polar Data Display and Dissemination Tools for the 21st Century	*Cheryl A. Hallam / ERG* *Daniel Sechrist / ERG* *Douglas Tallman / WGSC*	challam@usgs.gov dsechrist@usgs.gov dtallman@usgs.gov	Antarctic	Arctic		USGS, University of New Hampshire, National Science Foundation, SCAR Geographic Information Expert Group members	Data dissemination
15	National Ice Core Lab (NICL) support of U.S. West Antarctica Drilling Program	*Geoff Hargreaves / NICL* *John Rhoades / NICL*	ghargreaves@usgs.gov jfrhoades@usgs.gov	Antarctic		West Antarctica	NSF and ESF	Ice core acquistion
16	Geochemical evaluation of changes in major parameters of climate change	*Todd Hinkley / NICL*	thinkley@usgs.gov	Antarctic	Arctic	Antarctica Greenland	Geological Survey of Japan and University of Milan Bicocca, Italy	Climate history
17	Determination of natural environmental baselines of poisonous trace metals	*Todd Hinkley / NICL*	thinkley@usgs.gov	Antarctic	Arctic	Antarctica Greenland	Geological Survey of Japan and University of Milan Bicocca, Italy	Baseline levels of poisonous trace metals
18	Permafrost in Alaska: Present, and Future	*Leslie Holland-Bartels /ASC*	lholland-bartels@usgs.gov		Arctic	Alaska	Alaska Division of Geological and Geophysical Surveys, University of Alaska-Fairbanks	Permafrost boundaries/GIS
19	CRYSTAL - South Pole Seismic Array	*Bob Hutt / ASL* *Rhett Butler / CONT* *Kent Anderson / CONT*	Rhett@iris.edu kanderson@usgs.gov	Antarctica	Arctic	South Pole	IRIS, USGS, New Mexico Tech, NSF, RPSC	Seismic monitoring, whole-earth geophysics
20	Hydrology of Arctic regions from satellite passive and active microwave observations	*Edward G. Josberger / WWSC*	ejosberg@usgs.gov		Arctic	Arctic Ocean and land masses	Other USGS & US French Space Agency Univ. of Bergen, NO	Snow cover monitoring using satellite and microwave
21	Volumetric changes of the glaciers and ice fields southern Alaska	*Edward G. Josberger / WRD WA District*	ejosberg@usgs.gov		Arctic	Alaska	BLM, Altarum Institute, USGS Civil Applications Committee	Glacier monitoring / mass balance
22	Bacterial and bacteriophage interactions and the impact these interactions have on the geochemical and nutrient cycles in polar regions	*John T. Lisle / FISC*	jlisle@usgs.gov	Antarctic	Arctic		USGS, Montana State University, College of Charleston, NSF	Microbial assessment and impact to geochemical processes
23	Measurement and diagnosis of polar geomagnetic activity	*Jeffery J. Love / HAZ / Denver*	jlove@usgs.gov	Antarctic		Geomagnetism	NSF, NOAA, Intermagnet, Acdemic institutions, IPY and IHY	Geomagnetic observatory
24	Remeasurement of IGY Glaciers	*R.S. March / WRD AK Field* *E.J. Josberger / WRD WA District* *B.F. Molnia / GD / ER*	rsmarch@usgs.gov ejosberg@usgs.gov bmolnia@usgs.gov		Arctic	South Gulf Coastal Glaciers of Alaska	Gephysical Institute, Fairbanks and Juneau, Alaska, National Park Service, University of Alaska, National Snow and Ice Data Center	Glacier change analysis / mass balance

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25	Augmentation of USGS Benchmark Glaciers in Alaska	*R.S. March / WRD AK Field*	rsmarch@usgs.gov		Arctic	Alaska	University of Alaska, Fairbanks and Juneau, Alaska, National Park Service, University of Alaska, World Glacier Monitoring System, National Snow and Ice Data Center	Glacier monitoring /mass balance
26	GLIMS Alaska Regional Center	*R.S. March / WRD AK Field* *Jeff Kargel / ASTRO*	rsmarch@usgs.gov jkargel@usgs.gov		Arctic	Alaska	UA Fairbanks and Juneau NPS (Denali) GLIMS Program	Data dissemination
27	Glacier Volume Changes in the Gulf Alaska	*R.S. March / WRD AK Field* *E.J. Josberger / WRD WA District* *B.F. Molnia / GD / ER*	rsmarch@usgs.gov ejosberg@usgs.gov		Arctic	South Gulf Coastal Glaciers of Alaska	UA Fairbanks and Juneau NPS (Denali) University of Alaska, GeoData Center National Snow and Ice Data Center	Glacier monitoring / mass balance
28	Development of Arctic Monitoring Site, Transact and associated Landscape Vegetation Databases	*Carl Markon / ASC* *Skip Walker / UAF*	markon@usgs.gov ffdaw@uaf.edu		Arctic	Circumpolar Arctic and near Arctic environments	ABR Inc., Fairbanks, AK USDA Forest Service Puerto Rico GEOLAB, UMR6042 CNRS, France Department of Geography, Finland	Landcover monitoring
29	Arctic and Sub-Arctic Decision Support System	*Carl Markon / ASC* *Skip Walker / UAF*	markon@usgs.gov ffdaw@uaf.edu		Arctic	Circumpolar Arctic and Associated Boreal Watersheds	University of Alaska, Fairbanks Laboratoire THEMA, CNRS, France Helmut Epp, NWT Centre for Remost Sensing, Yellowknofe, Canada ABR Inc, Fairbanks, AK NORUT Information Technology Ltd, Norway	Decision support system
30	Arctic/Boreal Hydrological Interactions	*Carl Markon / ASC* *Tim Brabets / ASC*	markon@usgs.gov tbrabets@usgs.gov		Arctic	Deltas of the Colville, Yukon-Kushikwlm, and Copper Rivers, Alaska; Severnaya Dvina, Pechora, Ob, Yenlsey, Koruy, Lena, Indigirka, and Kolyma Rivers of Russia and Mackenzie Rivers of Canada	University of Alaska, Fairbanks State Oceanographic Institute, Moscow, Russia ABR Inc, Fairbanks Alaska USDA Forest Service, Puerto Rico	Landcover and hydrologic monitoring
31	Integrative Vegetative Studies in the Arctic Environment	*Carl Markon / ASC*	markon@usgs.gov		Arctic	Circumpolar		Landcover monitoring
32	Time Series Vegetation Analysis over the Arctic Landscape	*Carl Markon / ASC* *Brad Reed / EDC / CONT* *Madeleine Griselin / CNRS*	markon@usgs.gov reed@usgs.gov madeleine.griselin@univ-fcomte.fr		Arctic	Circumpolar	Laboratoire THEMA, France, UAF, NORUT Information Technology, Norway, Institute of of Tromso, Norway, USGS EROS Data Center	Landcover analyses
33	History of Polar Science Component Antarctica throughout it's Scientific Age of Discovery	*Tony K. Meunier / ERG*	tmeunier@usgs.gov	Antarctic		South Polar Region	Ohio State University, NSF, US State Department	Information synthesis

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34	High-Resolution Mapping of the Polar Regions for the 21st Century: A GIS/Remote Sensing Collaboration	*Jerry Mullins / GD / HQ* *Michelle Rogan / U. Cant.* *Cheryl Hallam / ERG*	jmullins@usgs.gov michelle.finnemore@ canterbury.ac.nz challam@usgs.gov	Antarctic	Arctic	New Zealand Canada Norway	USGS University of Canterbury, NZ North circumpolar nations	High resolution imagery
35	Integrated monitoring for assessing regional changes in the carbon cycle in Arctic watersheds	*Peter Murdoch / WRD*	pmurdoch@usgs.gov		Arctic	Alaska	Carbon Cycle Interagency Working Group (CCIWG), USGS Forest Service Global Change Program, Forest Inventory and Analysis Programs, NRCS Natural Resources Inventory, NOAA Arctic Research Program, NSF, PARTNERS project coordinator, Marine Biological Laboratory, Wood Hole, MA, Environment Canada	Carbon monitoring
36	Interactive Polar Information Gateway	*Douglas Nebert, HQ/GIO* *Cheryl Morris CR/GIO*	ddnebert@usgs.gov cmorris@usgs.gov	Antarctic	Arctic		USGS Alaska, University of Alabama, GeoMatics, Natural Resources, Canada	Data dissemination and visualization
37	Global Climate Change and Salmon Pan-Arctic Migration Modeling	*Jennifer Nielsen / ASC*	jennifer_nielsen@usgs.gov		Arctic	North Circum-polar	USGS ASC, NASA, University of Alaska, fairbanks, University of New Hampshire, Amherst, University of Guelph, Russian Telemetry Research Laboratory, Magadan	Invasive pathway modeling (salmon)
38	Winter Range of Adelie Penguins as related to Sea Ice in Antarctica	*Christine Ribic / WI CoopCRU*	caribic@wisc.edu	Antarctic		Palmer Station (Antarctic Peninsula), and Cape Crozier (Ross Island)	British Antarctic Survey (BAS), Landcare Research New Zealand, Hokaiido University, Japanese Antarctic Program, NASA	Wildlife monitoring and assessment
39	An exploration of the Amundsen Sea Coast for Adelie Penguin colonies using remote sensing	*Christine Ribic / WI Coop CRU*	caribic@wisc.edu	Antarctic		The Amundsen Sea	Polar Oceans Research Group, Landcare Research New Zealand, Australian Antarctic Division, University of Wisconsin-Madison	Wildlife monitoring and assessment
40	Adaptive Symbiosis as a Mechanism of Survival of Antarctic Plants	*Rusty Rodriguez / WERC*	rusty_rodriguez@usgs.gov	Antarctic	Arctic	Palmer Peninsula Devon Island	Montana State University, Bozman Walla Walla Academy, Walla Walla, WA	Plant life history
41	Paleotemperature and paleoenvironmental records archived in ice from Gulkana Glacier, Alaska: Global linkage to other ice core records from mid latitude glaciers	*Paul F. Schuster / NRP / CO* *Dennis Trabant / WRD / AK Field* *Rod March / WRD / AK Field*	pschuste@usgs.gov dtrabant@usgs.gov rsmarch@usgs.gov		Arctic	Gulkana Glacier	USGS; AK District, WI District, WDMRL; BRR WR, Isotope lab; BRR ER, Isotope lab, Chinese Academy of Sciences	Climate history
42	Response of Fish and Wildlife to Ecological Change on the Arctic Coastal Plain, Alaska	*Joel A. Schmutz / ASC* *Paul Flint / ASC* *Carl Markon / ASC* *Gary Clow / ESD / CO* *Steve Frenzel / ASC*	joel_schmutz@usgs.gov paul_flint@usgs.gov markon@usgs.gov clow@usgs.gov sfrenzel@usgs.gov		Arctic	Arctic Coastal Plain / Alaskan North Slope	Department of Wildlife Management, Alaska, US Fish and Wildlife Service, Alaska	landcover and wildlife assessment

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43	Carbon and Nutrient Transport and Cycling in the Mackenzie River, Canada	*Rob Striegl / WRD* *George Aiken / WRD* *Paul Schuster / WRD*	rstriegl@usgs.gov graiken@usgs.gov pschuste@usgs.gov		Arctic	Mackenzie River, Canada	Water Survey of Canada, University of Montreal, Yale University, PARTNERS project, Marine Biological Laboratory, Woods Hole, MA	Carbon monitoring
44	Circumpolar Assessment of the Quantity, Chemical Character, and Biological Reactivity of Organic Carbon in Permafrost Soils	*Rob Striegl / WRD* *George Aiken / WRD* *Kimberly Wilckland* *Paul Schuster*	rstriegl@usgs.gov graiken@usgs.gov kpwick@usgs.gov pschuste@usgs.gov		Arctic	North Slope of Alaska, and the Canadian, Nordic and Siberian Arctic	Finnish Environmental Institute, Helsinki, Uppsala University, Sweden, Yale University, Marine Biological Laboratory, Woods Hole, MA; Russian colleagues associated with the PARTNERS project; Water Survey of Canada	Carbon assessment
45	Increased disease risk among arcitic fish species	*James Winton / WERC*	jim_winton@usgs.gov		Arctic	Alaska, Northern Canada	University of Washington UAF, Oregon State Univ. AK Dept. of Fish & Game Canada Dept. of Fisheries & Oceans	Fish disease / risk assessment
		ASL	*Albuquerque Seismological Laboratory*					
		ASTRO	*Astrogrology Team / GD / Flagstaff*					
		CIC	*Crustal Imaging and Characterization Team / GD / Denver*					
		CNRS	*Centre Nationale de la Recherche Scientifique*					
		CRDO	*Central Region Director's Office / Denver*					
		EDC	*Eros Data Center / Sioux Falls*					
		ERG	*Eastern Region Geography / Reston*					
		ESD	*Earth Surface Dynamics Team / GD / Denver*					
		FISC	*Florida Integrated Science Center*					
		GIO	*Geographic Information Office*					
		LDEO	*Lamont-Doherty Earth Observatory (Columbia University)*					
		NRP	*WRD National Research Program*					
		NICL	*National Ice Core Laboratory / Denver*					
		UAF	*University of Alaska, Fairbanks*					
		WERC	*Western Ecological Science Center / Seattle*					
		WGSC	*Western Geographic Science Center / Menlo Park*					
		WHOI	*Woods Hole Oceanographic Institution*					
		WRD AK Field	*WRD Fairbanks Field Office*					
		WERC	*Western Ecological Science Center / Seattle*					
		WWSC	*Western Water Science Center Tacoma*					