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International Polar Year Awards

The "International Polar Year" (IPY), extending from March 2007 through March 2009, will be an intense scientific campaign to explore new frontiers in polar science, improve our understanding of the critical role of the polar regions in global processes, and educate the public about the polar regions. Projects, which are expected to be interdisciplinary, will involve a pulse of activity during the IPY period; leave a legacy of infrastructure and data; expand international cooperation; engage the public in polar discovery; and help attract the next generation of scientists and engineers to polar research.

This page, which will be updated regularly, provides a list of the awards made by the NSF in support of IPY.

Use this link to view or print a PDF version of this list: http://www.nsf.gov/od/opp/ipy/ipy_awards_0607.pdf

AWARDS MADE IN 2006 and 2007

Award Number	Title	NSF Organization (and Program or Programs)	Principal Investigator (Organization)	State
0233246	Antarctic Mapping, Geodesy, Geospatial Data, Satellite Image Mapping, and Antarctic Resource Center Management	OPP/Division of Antarctic Sciences (Antarctic Glaciology, Antarctic Earth Sciences, Antarctic Organisms and Ecosystems)	Mullins, Jerry (United States Geological Survey)	VA
0338226 (0631226)	Physics and Mechanics of the Breakup of Warm Antarctic Sea Ice: In-Situ Experiments and Modeling	OPP/Division of Antarctic Sciences (Antarctic Ocean and Atmospheric Sciences)	Dempsey, John (Clarkson University)	NY
0425387	Support for Participation of Graduate Students in the Annual Arctic Workshop	OPP/Division of Arctic Sciences (Arctic Natural Sciences)	Pfeffer, W. Tad (University of Colorado, Boulder)	со
<u>0438466</u> (0703110)	Aviation Management Services	OPP/Division of Antarctic Infrastructure and Logistics (Operations Support Program) and OPP/Division of Arctic Sciences (Arctic Research Support & Logistics)	Lewis, Robert (Department of Interior)	DC
0440679	Science Management Office for the U.S. Component of the International Trans Antarctic Expedition (U.S. ITASE SMO) — A Collaborative Program of Research from Taylor Dome to South Pole	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Mayewski, Paul (University of Maine)	ME
0440775	The Amundsen Continental Shelf and the Antarctic Ice Sheet	OPP/Division of Antarctic Sciences (Antarctic Ocean and Atmospheric Sciences)	Jacobs, Stanley (Lamont-Doherty Earth Observatory,	NY

			Columbia University)	
0537532	Collaborative Research: Norwegian- U.S. IPY Scientific Traverse—Climate Variability and Glaciology in East Antarctica	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Liston, Glen (Colorado State University)	со
<u>0538103</u>	Collaborative Research: Norwegian- U.S. IPY Scientific Traverse—Climate Variability and Glaciology in East Antarctica	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Scambos, Ted (University of Colorado, Boulder)	СО
<u>0538185</u>	Collaborative Research: Norwegian- U.S. IPY Scientific Traverse—Climate Variability and Glaciology in East Antarctica	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Neumann, Thomas (University of Vermont & State Agricultural College)	VT
<u>0538416</u>	Collaborative Research: Norwegian- U.S. IPY Scientific Traverse—Climate Variability and Glaciology in East Antarctica	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	McConnell, Joseph (University of Nevada Desert Research Institute)	NV
0538422	Collaborative Research: Norwegian- U.S. IPY Scientific Traverse—Climate Variability and Glaciology in East Antarctica	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Hamilton, Gordon (University of Maine)	ME
0538495	Collaborative Research: Norwegian- U.S. IPY Scientific Traverse—Climate Variability and Glaciology in East Antarctica	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Albert, Mary (Dartmouth College)	NH
<u>0538516</u>	Sea Ice Mass Balance in the Antarctic-SIMBA Drift Station	OPP/Division of Antarctic Sciences (Antarctic Ocean & Atmospheric Sciences)	Ackley, Stephen (Clarkson University)	NY
0610122	Penguin Science	EHR/Division of Elementary, Secondary, & Informal Education (Informal Science Education)	Ainley, David (H.T. Harvey & Associates)	CA
0619457	Development of a Polar Multidisciplinary Airborne Imaging System for the International Polar Year 2007-2009	OPP/Division of Antarctic Sciences (Major Research Instrumentation)	Bell, Robin (Lamont- Doherty Earth Observatory, Columbia University)	NY
0631309	PostDoctoral Research Fellowship	OPP/Division of Antarctic Sciences (Polar Post Doctoral Program)	Ballantyne, Ashley	NC
<u>0631419</u>	New Religious Movements in the Russian North: Competing Uses of Religiosity After Socialism (NEWREL)	OPP/Division of Arctic Sciences (Arctic Social Sciences)	Gray, Patty (University of Alaska, Fairbanks)	AK
0631713	IPY (Collaborative Research): The Pacific Gateway to the Arctic: Quantifying and Understanding Bering Strait Oceanic Fluxes	OPP/Division of Arctic Sciences (Arctic Natural Sciences)	Weingartner, Thomas J. (University of Alaska, Fairbanks)	AK
<u>0631951</u>	IPY: Towards an Arctic Observing Network — An array of Ice-Tethered Profilers to Sample the Upper Water Properties During the International Polar Year	OPP/Division of Arctic Sciences (Arctic Natural Sciences)	Toole, John M. (Woods Hole Oceanographic Institution)	МА
0631973	IPY (Collaborative Proposal): Constraining the Mass-Balance Deficit of the Amundsen Coast's Glaciers	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Joughin, Ian R. (University of Washington)	WA

<u>0631994</u>	IPY (Collaborative Proposal): Constraining the Mass-Balance Deficit of the Amundsen Coast's Glaciers	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Gogineni, S. Prasad (University of Kansas)	KS
0632031	IPY (Collaborative Proposal): Constraining the Mass-Balance Deficit of the Amundsen Coast's Glaciers	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Das, Sarah B. (Woods Hole Oceanographic Institution)	МА
0632041	IPY: Toward developing an Arctic Observing Network: An array of surface buoys to sample turbulent ocean heat and salt fluxes during the IPY	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Stanton, Timothy (Naval Postgraduate School)	CA
0632064	IPY (Collaborative Research): Live from the Poles; A Multimedia Educational Experience	EHR/Division of Elementary, Secondary, & Informal Education, OPP/Division of Arctic (Arctic Research and Education), OPP/Division of Antarctic Sciences (Antarctic Coordination & Information)	Fontaine, Paul (Museum of Science)	МА
0632085	IPY: Teachers' Domain — Polar Sciences	EHR/Division of Elementary, Secondary, & Informal Education and OPP/Division of Arctic Sciences (Arctic Research and Education)	Sicker, Theodore (WGBH Educational Foundation)	МА
0632130	Collaborative Research on the State of the Arctic Sea Ice Cover: An Integrated Seasonal Ice Zone Observing Network (SIZONET)	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Perovich, Donald K. (U.S. Army, Cold Regions Research & Engineering Laboratory)	NH
0632131	IPY (Collaborative Research): A Prototype Network for Measuring Arctic Winter Precipitation and Snow Cover (Snow-Net)	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Sturm, Matthew (U.S. Army, Cold Regions Research & Engineering Laboratory)	NH
0632133	IPY (Collaborative Research): A Prototype Network for Measuring Arctic Winter Precipitation and Snow Cover (Snow-Net)	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Liston, Glen (Colorado State University)	со
0632139	IPY: Collaborative Research on Carbon, Water, and Energy Balance of the Arctic Landscape at Flagship Observatories and in a Pan-Arctic Network	OPP/Division of Arctic Sciences (Arctic Natural Sciences)	Shaver, Gaius R. (Marine Biological Laboratory)	MA
0632144	IPY (Collaborative Research): Study of Arctic Ecosystem Changes in the IPY Using the International Tundra Experiment	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Klein, Julia (Colorado State University)	со
0632154	IPY (Collaborative Research): The Pacific Gateway to the Arctic: Quantifying and Understanding Bering Strait Oceanic Fluxes	OPP/Division of Arctic Sciences (Arctic Natural Sciences)	Woodgate, Rebecca (University of Washington)	WA
0632160	IPY (Collaborative Research): A Prototype Network for Measuring Arctic Winter Precipitation and Snow Cover (Snow-Net)	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Kane, Douglas L. (University of Alaska, Fairbanks)	AK
0632161	Collaborative Research: IPY, The Next Generation — A Community Ice Sheet Model for Scientist and Educators	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Johnson, Jesse V. (University of Montana)	MT

0632168	Collaborative Research: IPY, The Next Generation — A Community Ice Sheet Model for Scientist and Educators	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Hulbe, Christina (Portland State University)	OR
0632175	IPY: Engaging Antarctica	EHR/Division of Elementary, Secondary, & Informal Education (Informal Science Education) and OPP/Division of Antarctic Sciences (Antarctic Coordination & Information)	Farrell, J Michael (University of Nebraska-Lincoln)	NE
0632177	IPY (Collaborative Research): Cloud Properties Across the Arctic Basin from Surface and Satellite Measurements — An Existing Arctic Observing Network	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Walden, Von P. (University of Idaho)	ID
<u>0632184</u>	IPY (Collaborative Research): Study of Arctic Ecosystem Changes in the IPY Using the International Tundra Experiment	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Welker, Jeffrey (University of ALaska, Anchorage)	AK
0632187	IPY (Collaborative Research): Cloud Properties Across the Arctic Basin from Surface and Satellite Measurements — An Existing Arctic Observing Network	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Shupe, Matthew (University of Colorado, Boulder)	СО
0632194	IPY: Pole to Pole	EHR/Division of Elementary, Secondary, & Informal Education (Collaborative Research and Informal Science Education) OPP/Division of Arctic Sciences (Arctic Natural Sciences), OPP/Division of Antarctic Sciences (Antarctic Coordination & Information)	Rankin, Moira (Soundprint Media Center, Inc.)	MD
<u>0632195</u>	IPY: Investigation of Antarctic Ice Sheet Mass Balance From Satellite Gravity Measurements	OPP/Dvision of Antarctic Sciences (Antarctic Glaciology)	Chen Jianli (University of Texas at Austin)	TX
0632201	IPY: Observing the Dynamics of the Deepest Waters in the Arctic Ocean	OPP/Division of Arctic Sciences (Arctic Research Support and Logistics)	Timmermans, Mary- Louise (Woods Hole Oceanographic Institution)	MA
0632208	Collaborative Research: IPY, The Next Generation — A Community Ice Sheet Model for Scientist and Educators	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Barrett, Martin L. (East Tennessee State University)	TN
0632219	IPY: Live from the Poles — A Multimedia Educational Experience	EHR/Division of Elementary, Secondary, & Informal Education (Informal Science Education) and OPP/Division of Arctic Sciences (Arctic Research and Education)	Linder, Christopher (Woods Hole Oceanographic Institution)	МА
0632231	IPY: An Innovative Observational Network for Critical Arctic Gateways — Understanding Exchanges through the Davis and Fram Straits	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Lee, Craig (University of Washington)	WA
0632233	IPY: Chemolithoautotrophy in the Arctic Ocean — Environmental Genomics and Functional Analyses	OPP/Division of Arctic Sciences (Arctic Natural Sciences)	Kirchman, David (University of Delaware)	DE
0632250	IPY: A Metagenomic Investigation of Adaptation to Prolonged Cold and Dark Conditions of the Lake Vostok Microbial Community	OPP/Division of Antarctic Sciences (Antarctic Organisms and Ecosystems)	Cary, Stephen (University of Delaware)	DE

0632262	POLAR-PALOOZA	EHR/Division of Elementary, Secondary, & Informal Education (Informal Science Education) and OPP/Division of Arctic Sciences (Arctic Natural Sciences)	Haines-Stiles, Geoffrey (Geoff Haines-Stiles Productions)	M
0632263	IPY (Collaborative Research): Study of Arctic Ecosystem Changes in the IPY Using the International Tundra Experiment	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Hollister, Robert (Grand Valley State University)	МІ
0632264	IPY: Collaborative Research on Carbon, Water, and Energy Balance of the Arctic Landscape at Flagship Observatories and in a Pan-Arctic Network	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Bret-Harte, Marion S. (University of Alaska, Fairbanks)	AK
0632267	Collaborative Research: IPY, The Next Generation — A Community Ice Sheet Model for Scientist and Educators	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Robertson, William H. (University of Texas at El Paso)	тх
0632277	IPY (Collaborative Research): Study of Arctic Ecosystem Changes in the IPY Using the International Tundra Experiment	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Oberbauer, Steven (Florida International University)	FL
0632296	IPY (Collaborative Research): A Cooperative Arctic Data and Information Service (CADIS)	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Barry, Roger G. (University of Colorado, Boulder)	СО
0632312	Fostering Collaborative, Interdisciplinary Relationships Among the "New Generation" of Polar Researchers Participating in the IPY	OPP/Division of Arctic Sciences (Graduate Teaching Fellows in K-12)	Drobot, Sheldon (University of Colorado at Boulder)	со
<u>0632313</u>	IPY (Collaborative Research): A Cooperative Arctic Data and Information Service (CADIS)	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Moore, James A. (University Corporation For Atmospheric Research)	СО
0632324	Fostering Collaborative, Interdisciplinary Relationships Among the "New Generation" of Polar Researchers Participating in the IPY	OPP/Division of Arctic Sciences (Graduate Teaching Fellows in K-12)	Weiler, C. Susan (Whitman College)	WA
0632325	Collaborative Research: IPY, The Next Generation — A Community Ice Sheet Model for Scientist and Educators with Demonstration Experiments in the Amundsen Sea Embayment	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Seals, Cheryl D. (Auburn University)	AL
0632332	IPY: A Community Genomics Investigation of Fungal Adaptation to Cold	OPP/Division of Arctic Sciences (Arctic Natural Sciences and Arctic Research Support & Logistics)	Taylor, Donald (University of Alaska, Fairbanks)	AK
0632345	IPY: Exchange for Local Observations and Knowledge of the Arctic (ELOKA)	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Gearheard, Shari (University of Colorado at Boulder)	со
0632346	Collaborative Research: IPY, The Next Generation — A Community Ice Sheet Model for Scientist and Educators with Demonstration Experiments in Amundsen Sea Embayment Region	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Tulaczyk, Slawek M. (University of California, Santa Cruz)	CA
0632354	IPY: The International Polar Year Data	OPP/Division of Arctic Sciences	Parsons, Mark	со

	and Information Services	(Information and Advisory Services— Arctic Related) and OPP/Division of Antarctic Sciences (Antarctic Coordination & Information)	(University of Colorado, Boulder)	
0632359	IPY: A Metagenomic Investigation of Adaptation to Prolonged Cold and Dark Conditions of the Lake Vostok Microbial Community	OPP/Division of Antarctic Sciences (Antarctic Glaciology and Antarctic Organisms and Ecosystems)	Lanoil, Brian (University of California, Riverside)	СА
0632360	IPY-ROAM: International Polar Year Research and Educational Opportunities in Antarctica for Minorities	OPP/Division of Arctic Sciences (CCLI- Phase 1 — Exploratory, and Graduate Teaching Fellows in K-12) and OPP/Division of Antarctic Sciences (Antarctic Coordination & Information)	Tweedie, Craig (University of Texas at El Paso)	ТХ
0632387	IPY: Pan-Arctic Studies of the Coupled Tropospheric, Stratospheric and Mesospheric Circulation	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Collins, Richard L. (University of Alaska, Fairbanks)	AK
0632397	IPY: Adapting SENCER to the Arctic — Improving Polar Science Education as a Legacy	EHR/Division of Undergraduate Education	Duffy, Lawrence (University of Alaska, Fairbanks)	AK
0632398	IPY Collaborative Research on the State of the ARctic Sea Ice Cover — An Integrated Seasonal Ice Zone Observing Network (SIZONET)	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Eicken, Hajo (University of Alaska, Fairbanks)	AK
0632400	IPY: Development of a Network of Permafrost Observatories in North America and Russia — The U.S. Contribution to the International Polar Year	OPP/Division of Arctic Sciences (Arctic System Science Program)	Romanovsky, Vladimir E. (University of Alaska, Fairbanks)	AK
0632401	IPY: PolarTREC — Teachers and Researchers Exploring and Collaborating	EHR/Division of Elementary, Secondary, & Informal Education (Teacher Professional Continuum), OPP/Division of Arctic Sciences (Arctic Research and Education) OPP/Division of Antarctic Sciences (Antarctic Coordination & Information)	Warnick, Wendy (Arctic Research Consortium of the U.S.)	AK
0633343	Collaborative Research: A Modular Approach to Building an Arctic Observing System for the IPY and Beyond in the Switchyard Region of the Arctic Ocean	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Kwok, Ronald (National Aeronautics and Space Administration)	MD
0633878	Collaborative Research: A Modular Approach to Building an Arctic Observing System for the IPY and Beyond in the Switchyard Region of the Arctic Ocean	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Schlosser, Peter (Lamont-Doherty Earth Observatory, Columbia University)	NY
0633885	Collaborative Research: A Modular Approach to Building an Arctic Observing System for the IPY and Beyond in the Switchyard Region of the Arctic Ocean	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Steele, Michael (University of Washington)	
0636537	Collaborative Research: Synthesis of Thwaites Glacier Dynamics — Diagnostic and Prognostic Sensitivity Studies of a West Antarctic Outlet System	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Dupont, Todd (University of Illinois, Chicago)	IL
0636724	Collaborative Research: Synthesis of	OPP/Division of Antarctic Sciences	Blankenship, Donald	TX

	Thwaites Glacier Dynamics — Diagnostic and Prognostic Sensitivity Studies of a West Antarctic Outlet System	(Antarctic Glaciology)	(University of Texas at Austin)	
0636867	Collaborative Research: Synthesis of Thwaites Glacier Dynamics — Diagnostic and Prognostic Sensitivity Studies of a West Antarctic Outlet System	OPP/Division of Antarctic Sciences (Antarctic Glaciology)	Parizek, Byron (The College of New Jersey)	ИЛ
0638408	IPY Collaborative Research: Is the Arctic Human Environment Moving to a New State?	OPP/Division of Arctic Sciences (Arctic Observing Network Implementation)	Kruse, John (University of Alaska Anchorage Campus)	AK
0638413	IPY Collaborative Research: Is the Arctic Human Environment Moving to a New State?	OPP/Division of Arctic Sciences (Arctic Social Sciences)	Hamilton, Lawrence (University of New Hampshire)	NH
0638867	Polar Marine Science — 2007	OPP/Division of Antarctic Sciences (Antarctic Ocean & Atmospheric Sciences, Antarctic Organisms and Ecosystems) and OPP/Division of Arctic Sciences (Arctic Natural Sciences, Arctic System Science Program)	Arrigo, Kevin (Stanford University)	CA
<u>0639006</u>	Collaborative Research: The 10th International Symposium on Antarctic Earth Sciences (ISAES X)	OPP/Division of Antarctic Sciences (Antarctic Earth Sciences)	Luyendyk, Bruce (University of California, Santa Barbara)	CA
0639409	Collaborative Research: The 10th International Symposium on Antarctic Earth Sciences (ISAES X)	OPP/Division of Antarctic Sciences (Antarctic Earth Sciences)	Dunbar, Robert (Stanford University)	СА
0647022	Polar Research Board Support	OPP/Division of Arctic Sciences (Arctic Research and Policy Support) and OPP/Division of Antarctic Sciences (Antarctic Coordination and Information)	Elfring, Chris (National Academy of Sciences)	DC
0652688	POLENET Workshops: GPS & Seismology Planning for IPY	OPP/Division of Antarctic Sciences (Antarctic Earth Sciences)	Wilson, Terry (Ohio State University)	ОН
0652864	POLENET Workshops: GPS & Seismology Planning for IPY	OPP/Division of Antarctic Sciences (Antarctic Earth Sciences)	Wiens, Douglas (Washington University)	МО
0703682	Sea Ice Mass Balance in the Antarctic — SIMBA Drift Station	OPP/Division of Antarctic Sciences (Antarctic Ocean and Atmospheric Sciences)	Ackley, Stephen (University of Texas at San Antonio)	TX
0703933	Diversity, Distribution, and Relative Abundance of Marine Mammals, Penguins, and Seabirds from South America to McMurdo Sound during the 2006 Transit of the Icebreaker Oden	OPP/Division of Antarctic Sciences (Antarctic Organisms and Ecosystems)	Stewart, Brent (Hubbs-Sea World Research Institute)	CA
0705363	SGER: Polar Education and Outreach Leveraging Windows to the Universe for the International Polar Year	GEO/Division of Atmospheric Sciences	Johnson, Roberta M. University Corporation for Atmospheric Research	со
0705654	Collaborative Research: Moved by the State (MOVE)	OPP/Division of Arctic Sciences (Arctic Social Sciences)	Heleniak, Timothy (University of	MD

			Maryland)	
0708292	SGER: Primary and Secondary Production Measurements Along the Western Antarctic Coastline on the Oden "Ship of Opportunity Cruise"	OPP/Division of Antarctic Sciences (Antarctic Organisms and Ecosystems)	Gallager, Scott (Woods Hole Oceanographic Institution)	МА
<u>0711471</u>	SGER: Challenging Forecasts for a Challenging Environment: Weather Prediction for Antarctica	GEO/Division of Atmospheric Sciences	Spangler, Timothy C. University Corporation for Atmospheric Research	со
0711965	International Directory of Arctic Social Scientists	OPP/Division of Arctic Sciences (Arctic Social Sciences)	Wheelersburg, Robert (Elizabethtown College)	РА
0718422	Arctic Science Summit Week 2007	OPP/Division of Arctic Sciences (Arctic Research Support & Logistics Program)	Virginia, Ross (Dartmouth College)	NH
0723343	An IPY Symposium: New York and Polar Research — A Partnership Spanning the Centuries	OPP/Division of Arctic Sciences (Arctic Research and Education)	Pfirman, Stephanie (Lamont-Doherty Earth Observatory, Columbia University)	NY
0724229	Workshop for Comprehensive Release of SLICA Results	OPP/Division of Arctic Sciences (Arctic Social Sciences)	Kruse, John (University of Alaska, Anchorage	AK
0725471	Workshop: Travel Support for the 6th International Penguin Conference	OPP/Division of Antarctic Sciences (Antarctic Organisms and Ecosystems)	Boersma, P. Dee (University of Washington)	WA
0731478	"Smithsonian at the Poles: Contributions to IPY Science" Symposium	OPP/Division of Antarctic Sciences (Antarctic Coordination and Information Program) and OPP/Division of Arctic Sciences (Information & Advisory Services; Arctic Related)	Lang, Michael (Smithsonian Institution)	VA

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