

ENVIRONMENT AND COMMUNICATIONS REFERENCES COMMITTEE

Re Australian Antarctic Division Funding

Clarification of Antarctic project numbers

In my evidence I stated that the average number of Antarctic projects in the past was around 100 per year. I attached the data from which this was calculated. It is from the AAD web site.

Clarification of the development of and selection of Antarctic scientific projects outside of external schemes

For many years the AAD ran a combined project and grant scheme. Both AAD staff and externals could apply for support with university applicants being able to apply for grants. The grants were not substantial, usually covering cost of travel to Hobart, Antarctic medicals, and some analysis/ support staff. Often universities projects needed ARC or other larger funds to complete the work, hence often, a fitting mismatch between Antarctic access and funds for research developed, or a total mismatch (access and no funding or funding a no access). Solving this mismatch was behind some of the thinking in the Clarke review.

What was honed within the AAD, however, was the process to develop and deliver strategic science. AAD science projects were not developed on the whim of a scientist. The sequence of AAP Strategic plans/ science plans/ science implementation plans was well developed (although this fell substantially in the last 2-3 years). Regardless, for well over the last decade, internal AAD science projects were developed through significant stakeholder discussions and stakeholder pull. Hence not supporting internal AAD science, usually means a gap in Governmental/ departmental needs.

One of the most productive times, I was involved with (~mid 2010's) focussed around the role of the Antarctic Research Assessment Committee. AAD Program and Section leaders, in response to stakeholder pull, would develop the AAP Science Implementation plans. Science project calls would go out to the wider science community with AAD program staff actively encouraging multiple university/ external institutions to apply to address elements of the implementation plans. Often AAD staff were embedded in university projects as brains trusts because of their deep Antarctic knowledge. Calls for "season determining plans", big, campaign style projects that would alter the way a summer season would run, were also called for many years in advance. Project applications would be assessed by the committee, made up of both AAD internal and external members, with the committee also tracking annual progress. This approach led to substantial progress in some areas of science, with the AAD being the central hub to a greater spoke of Antarctic science. Project assessment criteria has always included science plan goal, integrational and internal elements.

It is my opinion, that this model: the AAD and the AAD Science Branch being the lead Antarctic science agency was a good model, as it focussed on policy, the internal realm, and operational needs, while still allowing for fundamental and cutting-edge science to be met by universities in conjunction with the AAD. Universities by their nature and funding models have different criteria for success. One being delivery of novel, world-leading, and ground-breaking science. While such science may feed into the science-policy nexus, it may not deliver the information on whether, for example, sea-ice conditions allow for ships to reach Casey for resupply, or remediation of oil spills can stop, or simply what is the biodiversity in areas of the AAT. Systematic biodiversity studies and knowledge are fundamental to the Antarctic Treaty and essential to any modelling or sophisticated cutting-edge science that university teams like to deliver, but somewhat impossible to get funding for through systems like the ARC. The recent trend of the AAD Science Branch moving towards being like an adjunct university department (but with their hands tied), attached to a government department, competing for access to Antarctica, with large university teams with multimillions of grant dollars is not effective, and does not meet the needs of the nation.

The challenge is to set up a system that the AAD leads, in a hub and spoke model with universities and other agencies, that can work with the ARC for support for university science. It is a multi-party problem, as well as a need for an effective governance model problem.

Dana M. Bergstrom
20 October 2023

Total approved Australian Antarctic Program science projects 1986 onwards

Source of data

<https://antapps.aad.gov.au/public/projects/>

definitions

Science that was/is part of a campaign or large multidisciplinary or internationally-linked style projects

Regulatory science

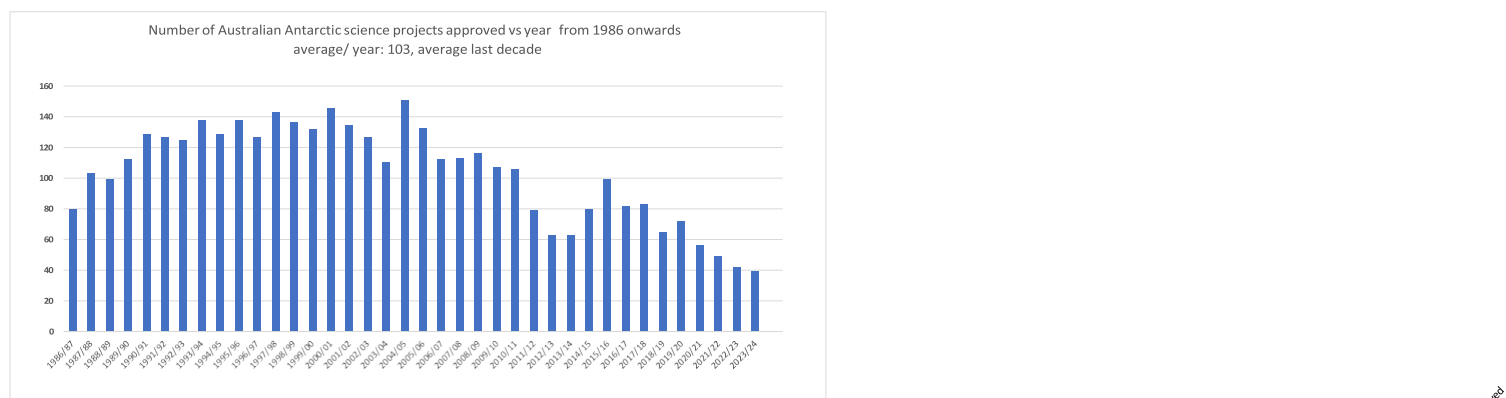
Delivers regulatory science - feeds into national or international convention/
arrangement/ Treaty - e.g. biodiversity assessment/ specially protected areas/ wildlife
monitoring/ clean up of legacy waste/ CCAMLR
Science requiring traverse capability across the AAT to conduct the science

Traverse

Science requiring traverse capability across the AAT to conduct the science

Note

Many long term projects continue/ continued under different numbers e.g. #46,2205,4086

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SIMMONDS, Prof. Ian	High southern latitude cyclone behaviour during the FROST SOPs and its longer term variability	874	3	
RITZ, Prof. David	Sea Ice Biota of Coastal Eastern Antarctica	875	1	
BURNS, Dr. Gay	Atmospheric Electric Circuit Weather and Climate Research	877	19	
PAULY, Dr. Timothy (Tim)	The distribution and composition of the acoustic scattering layers of the Southern Ocean, and their potential use for global climate monitoring	878	3	
RIDDLE, Dr. Martin	Comparison of French and Australian Management Practices for Specially Protected Areas	879	1	R
ROBERTSON, Dr. Graham	Foraging ranges of emperor penguin fledglings	880	1	R
	Information Management System for Natural and Anthropogenic Values of the Antarctic and Threats to these Values.	881	1	R
RIDDLE, Dr. Martin	Origins, Levels, Pathways and effects of Pollution in the Antarctic Environment.	882	1	R
RIDDLE, Dr. Martin		884	1	R
QUILTY, Prof. Patrick (Pat)	Palaeontology and Palaeoenvironment of the Marie Byrd area (Vestfold Hills) in the Pliocene			
	Amery Ice Shelf Levelling survey for Radar altimeter Validation and Detection of Elevation change	885	1	
ALLISON, Dr. Ian	Monitoring surface elevation change and ice sheet movement in Antarctica using high-precision GPS techniques	887	3	
COLEMAN, Prof. Richard	Borehole re-logging and strain grid re-measurement at Dome Summit South (DSS) on Law Dome	888	1	
MORGAN, Mr. Vincent (Vin)	Biodiversity and biogeography of benthic and benthopelagic invertebrates on the continental shelf in eastern Antarctica	891	2	
CONSTABLE, Dr. Andrew	Genetic diversity studies of selected Subantarctic terrestrial plant species	894	2	
PLAYFORD, Ms. Julia	The Larsemann Hills-an Antarctic Microcosm	895	1	
BURGESS, Dr. James (Jim)	Glaciation History of the Larsemann Hills	896	1	
BURGESS, Dr. James (Jim)		897	1	
HINDELL, Prof. Mark	Foraging and reproductive strategies of the Weddell Seal in the Vestfold Hills, Eastern Antarctica			
MATSUMOTO, Dr. George	Impact of viscosity on tropic, behavioural and morphological adaptations of Antarctic plankton	898	1	
HALL, Prof. Colin	The development of tourism management regimes on polar regions	900	1	
VAINE, Prof. Richard (Rick)	Structure and geochemistry of Macquarie Island oceanic crust	903	1	
SELURK, Dr. Patricia	PLEISTOCENE SEDIMENTARY DEPOSITS ON SUBANTARCTIC MACQUARIE ISLAND:CONTRIBUTION	904	1	
WILLIAMS, Dr. Raymond (Ray)	Use of a spatial expert system shell to develop automated techniques for the detection and da	907	2	
WILLIAMS, Dr. Raymond (Ray)	Identification and classification of icebergs from satellite images using spatial analysis techniq	908	2	
MICHAEL, Dr. Kelvin	Large scale survey of polynias in the East Antarctic Sector (SUPERCEDED BY PROJECT #2209 PRO	909	1	
		910	1	
BOLTER, Dr. Manfred	microbial colonization of antarctic soils			
	Molecular approach to the Taxonomy and Biogeography of Ciliate Populations in Antarctic	912	1	R
LAYBOURN-PARRY, Prof. Johanna (Jo)	Coastal Waters and Lakes of the Vestfold Hills	915	1	R
THELE, Dr. Deborah (Debbie)	Cetacean Sightings Survey	919	1	
LAYBOURN-PARRY, Prof. Johanna (Jo)	Functional dynamics of the microbial loop in saline lakes of the Vestfold Hills			
HARRIS, Dr. Peter	Current Meter Moorings	925	3	
	Extension of the Antarctic ice sheet between 980E and 1110E (Obruchev Hills, Bunger Hills & Windmill Islands) at the Last Glacial Maximum.	926	1	C
COLQUHOUN, Prof. Eric	Bathymetric Profiling of the Antarctic Continental Margin	933	1	
SYMMONDS, Prof. Philip	Shelf and slope sedimentary signatures of Late Cenozoic ice-sheet variability on the East Antarctic continental margin	937	1	
HARRIS, Dr. Peter	Genetic differentiation between and relationships within Adelle penguin colonies	940	4	R
MURRAY, Dr. Neil	Impact of changes in UV and visible radiation on the reflective properties of plant photosynthetic surfaces	941	3	
ROBINSON, Prof. Sharon		945	1	
GASPARON, Dr. Massimo	Anthropogenic lead and trace metal contamination in the Larsemann Hills and Vestfold Hills			
		949	18	
TRULL, Dr. Thomas (Tom)	Sub-Antarctic zone mooring study of interannual variability in particulate carbon export			
	Research in natural freeze-drying technology for the preservation of historic Antarctic buildings	951	7	
GODFREY, Dr. Ian				
TINDALE, Dr. Neil	Recovery of aerosol sampling tower from Macquarie Island	952	1	
	Investigations of bacterial, viral and parasitic infections in Antarctic penguins, and the development of a standardised monitoring scheme	953	8	
SHELLAM, Prof. Geoffrey (Geoff)				
		955	1	
LAMBERT, Prof. David	Data analysis and forward modelling of VLF surface impedance data from the Amery Ice Shelf			
SELURK, Dr. Patricia	Macquarie Island GIS: major vegetation and landform types	956	1	
COLQUHOUN, Prof. Eric	Selected geomorphologic and stratigraphic investigations, Vestfold Hills	959	1	
RICHARDSON, Dr. Alastair	Effect of two introduced invertebrates on litter decomposition rates on Macquarie Island	962	1	
RITZ, Prof. David	Initial pilot study: the feasibility of shipboard experimentation in the study of copepod feeding and faecal production	963	1	
KAROLY, Prof. David	Variations of stratospheric ozone at Macquarie Island	965	4	
Unknown	Lead isotopes in snow and ice as an indicator of past changes to the Antarctic environment	966	2	
VAN FRANKER, Dr. Jan		969	1	R
	Individual quality in Antarctic fulmarine petrels: factors governing reproductive success	973	1	
	An integrated field, geochemical, isotopic and geochronological study of Gassberg Constraints on timing, character and petrogenesis of holocene lamproitic volcanics in the eastern Antarctica Shield and the nature of the underlying lithosp			
COLLIERSON, Prof. Kenneth (Ken)	Antarctic Geodiversity Program (observational)	974	17	
JOHNSTON, Mr. Gary	Uplift mechanisms and late brittle history of the Vestfold Hills	975	1	
WILSON, Prof. Christopher (Chris)		977	1	
SMOLSKAIA, Dr. Nina	Measurement and modelling of UV-B radiation above and below pack ice in the East Antarctic			
	Distribution and abundance, and consumption of marine resources, by Antarctic seabirds in the pack-ice zone of the Southern Indian Ocean during Spring	979	1	R
HINDELL, Prof. Mark	Water mass formation and the Antarctic Circumpolar Current: In global models			
REASON, Dr. Christopher (Chris)	Macquarie Island GIS - generation of a digital elevation model with spaceborne synthetic aperture radar imaging systems	983	3	
LONGSTAFF, Prof. Dennis	An assessment of some uncertainties in using ice core S180 data to deduce past temperatures	987	3	
SIMMONDS, Prof. Ian	Contribution of diatoms to the Antarctic coastal zone carbon flux	988	3	
MCMINN, Prof. Andrew	Environmental effects on the growth and productivity of sea ice algae	989	6	
MCMINN, Prof. Andrew	Delineation of simple microecosystems associated with the quartz stone habitat in the Vestfold Hills	992	1	
LINE, Dr. Martin	Assessment of the impact of human sewage effluent on benthic communities at Macquarie Island	996	1	
SIMPSON, Prof. Rodney (Rod)	Late Quaternary glacial history of the Vanderford Glacier and inner Vincennes Bay, Wilkes Land	997	2	
GOODWIN, A/Prof. Ian	Insect migration and monitoring studies on Macquarie Island	999	4	
CROSSLY, Dr. Anthony (Clive)	Foraging of royal penguins and its relationship to the Antarctic Polar Frontal Zone	1002	1	R
HINDELL, Prof. Mark	Biodiversity and low temperature biology of Antarctic yeasts	1002	1	
WATSON, Prof. Ken	Further investigations of the effects of the Nelloa Dan oil spill on intertidal benthic communities at Macquarie Island: continued recovery of kelp holdfast communities	1003	1	
SIMPSON, Prof. Rodney (Rod)	Air sampling and analysis from Antarctic firm and ice	1004	4	
ETHERIDGE, Dr. David	Metal and organic contaminants in marine invertebrates from Antarctica, field study of their concentrations, laboratory study of their toxicities	1005	4	
DUQUESNE, Dr. Sabine	Oil spill trajectory modelling in Antarctic and Subantarctic waters	1006	1	
GRIELACH, Mr. Peter	Impact of disturbance on breeding behaviour and physiology of southern elephant seals (Mirounga leonina)	1007	2	
REINDERS, Dr. Peter	Classification of Antarctic nearshore sea-bed using acoustic techniques	1008	1	R
RIDDLE, Dr. Martin	Integrated field surveys	1010	1	R
RIDDLE, Dr. Martin	Biodiversity and ecophysiology of Antarctic sea-ice bacteria	1012	2	
BOWMAN, Dr. John	Molecular approach to the study of taxonomy and seasonal succession in planktonic communities of Eastern Antarctica	1014	1	
FORD, Dr. Miriam	Ice shelf - ocean interaction in the cavity beneath the Amery Ice Shelf	1015	15	
KRAVEN, Mr. Trevor (Mike)	Subantarctic Region	1015	15	R
BERGSTROM, Dr. Dana		1018	1	
	Glacier dynamics and mass discharge from the Antarctic ice sheet, 45-160E [SUPERCEDED BY #2224 FROM 1997-98]			
YOUNG, Mr. Neal		1022	6	
	Nitrogen studies in sub-Antarctic terrestrial environments [TO BE INCORPORATED IN #1015 BERGSTROM IN 2001-02]			
SCHMIDT, Dr. Susanne	Development of a pilot in-vessel composting unit with application to Antarctic bases	1025	1	
LINE, Dr. Martin	Molecular taxonomy of Antarctic flora	1041	1	R
SKOTNICKI, Dr. Mary	Introduced Collembola from Subantarctic islands	1043	4	R
COOPER, Dr. Paul	Wilkes Land Glacial History (WGLH)	1046	2	
HARRIS, Dr. Peter		1049	2	
LAYBOURN-PARRY, Prof. Johanna (Jo)	An inter-disciplinary investigation of biological, physical and geochemical lake processes			
		1051	2	
GOHL, Dr. Karsten	Seismic correlation of glacial-marine deposition cycles along Antarctic continental margins	1055	1	R
CONSTABLE, Dr. Andrew	Predator-Prey-Fisheries Interactions at Macquarie Island	1058	4	C
BINDOFF, Prof. Nathaniel (Nathan)	Ocean - Ice Shelf Interaction: Prydz Bay			
LYTLE, Dr. Victoria (Vicky)	Brine flow through sea ice	1060	1	
HOVENDEN, Dr. Mark	Climate Change and productivity in Antarctic lichens	1063	4	
MCMINN, Prof. Andrew	Neogene Biostratigraphy of the Pagadroma Group	1065	1	
GORE, A/Prof. Damian	Palaeoenvironments of the Antarctic coast, from SOE to 120E	1071	6	
		1073	1	
KAMENETSKY, Dr. Vadim (Dima)	Primary sulfur abundances and the oxidation state of sulfur in the Macquarie Island glasses and melt inclusions: implications for the sulfur budget during seafloor alteration			
NICOL, Dr. Stephen (Steve)	Seasonal growth in kirk	1074	2	CA
ANDERSON, Mr. Ross	The flow of basal ice	1075	2	
SIMMONDS, Prof. Ian	An investigation into Southern Hemisphere cyclone-sea ice links using long records of NCEP analyses and passive microwave data	1080	4	
COLQUHOUN, Prof. Eric	Glacial and coastal history of Wilkes-George V Land coast and ice margin for ANTIME program	1081	1	
CHIBA, Ms. Sanae	Growth and the optimal feeding conditions of Salpa thompsoni	1082	1	
BEYER, Dr. Lothar	Relationship between soil and plant geography on Clark Peninsula	1083	1	
	The influence of water and nutrient availability on bryophyte communities in continental Antarctica	1087	2	
ROBINSON, Prof. Sharon	Analyses of contaminated sediments and waters at Casey and Wilkes	1089	1	
GORE, A/Prof. Damian	Energy requirements and daily food consumption of crabeater seals in the Antarctic winter pack-ice	1090	2	
HINDELL, Prof. Mark	An environmental record of lead isotopes over four centuries at Law Dome, Antarctica	1092	4	
Unknown	Dispersion and transport of contaminants under a floating ice cover	1094	1	
MORRIS, Dr. Carl (Ric)	Distribution of trace metals in the Larsemann Hills lake systems	1095	1	
GASPARON, Dr. Massimo	The phytophenolic complement and phytopharmaceutical potential of snow algae of the Windmill Islands region	1099	2	
DUALV, Mr. Brian		1100	4	
RIDDLE, Dr. Martin	Contaminants in the Antarctic environment (Umbrella program - not required from 2001-02)			
HOSSE, Dr. Graham	Biology of the Mertz Glacier Polynya	1101	2	
	Tectonic evolution of the Archaean to Proterozoic of George V Land - correlations with the Gawler Craton, South Aust. and evaluation of the Mawson Continent in supercontinent configurations	1102	1	
FANNING, Dr. Christopher (Mark)	Combined effects of UV-B irradiation and contaminants related to human activities in Antarctica. A case study with Paramera walleri (Crustacea: Amphipoda)	1103	2	
DUQUESNE, Dr. Sabine	Measurement of moss growth rates in Antarctica	1104	7	
SELURK, Dr. Patricia	Primary production, bacterial production, phytoplankton growth and microzooplankton grazing rates along the WOCE SKI line and in the seasonal ice zone	1105	2	
COLEMAN, Prof. Richard	Strain fields on the Amery Ice Shelf using GPS	1106	2	
LAWRENCE, Dr. Susan	Archaeology of Historic Subantarctic sealing	1107	2	
MORGAN, Mr. Vincent (Vin)	Shallow coring on the ice sheet east of Davis	1109	1	
	Structural evolution of Macquarie Island - interpretation of marine geophysical data and structural mapping	1110	3	
MOSHER, Dr. Sharon	Crustal rebound in the Lambert Glacier area	1112	6	T
TREGONING, Dr. Paul	Winter Zooplankton pilot study - Mawson area	1117	2	C
NICOL, Dr. Stephen (Steve)	Geomorphological evolution of Heard Island	1118	6	C
KIERMAN, Dr. Kevin	Australian Antarctic Southern Ocean Profiling Project	1119	4	
O'BRIEN, Dr. Philip (Phil)	Amery Ice Shelf Dynamics from GPS	1120	4	
COLEMAN, Prof. Richard	Mapping the GPS total electron content and scintillation activity at southern higher latitudes during high sunspot numbers	1121	6	
Unknown	Early Cenozoic vegetation of East Antarctica	1122	2	
QUILTY, Prof. Patrick (Pat)	Recent changes in the semiannual oscillation in the sub-Antarctic and their connections with cyclone variability	1124	5	
SIMMONDS, Prof. Ian				
WILLIAMS, Dr. Raymond (Ray)	Monitoring temporal change in ice margins using computer-based edge tracing techniques	1125	1	
LAYBOURN-PARRY, Prof. Johanna (Jo)	Cold adaptation in planktonic and sea-ice bacteria	1126	1	
WILSON, Prof. Christopher (Chris)	Proterozoic and Palaeozoic evolution of the Rauer Group	1129	5	
MCMINN, Prof. Andrew	Ecology and local impacts on near shore marine benthic algal mats	1130	5	R
		1131	1	
LAYBOURN-PARRY, Prof. Johanna (Jo)	Biological evolution of Antarctic lakes			
	Regional dialects and herd formation aspects of Weddell seal (Leptonychotes weddellii) underwater vocalisations	1132	3	
TERHUNE, Dr. John (Jack)	The consequences of elevated atmospheric carbon dioxide concentrations on inorganic carbon acquisition and photosynthetic performance of Antarctic macroalgae	1133	1	
BEARDALL, Dr. John				
QUILTY, Prof. Patrick (Pat)	Evolution of East Antarctic marine environment during the Neogene	1134	5	
ROGERS, Dr. Tracey	Acoustic survey for Antarctic pack ice seals (INCORPORATED IN PROJECT #1144 FROM 2000-03)	1140	1	R
MCMINN, Prof. Andrew	Temporal variability of trace metal input and diatom response in the marine environment	1141	1	
	The distribution of volatile and metallic elements in the Macquarie Island glasses and melt inclusions: Implications for fractional crystallisation and degassing during seafloor basaltic magmatism	1142	2	
KAMENETSKY, Dr. Vadim (Dima)				
ROGERS, Dr. Tracey	Leopard Seal Program	1144	5	R
		1145	1	R
ROGERS, Dr. Tracey	Health status of leopard seals in Prydz Bay (INCORPORATED IN PROJECT #1144 FROM 2000-03)			
KENNEDY, Dr. Andrew	Impact of global environmental change on the terrestrial biogeography of Antarctica	1146	2	
	Application of trace-element and Pb-isotope signatures to define contaminant sources and dispersal pathways at Casey and Wilkes	1147	3	
GASPARON, Dr. Massimo				
GIESE, Dr. Melissa	Measuring the effects of human activity on Antarctic wildlife	1148	5	R
CLARKE, Dr. Geoffrey (Geoff)	The strength of the lower continental crust; evidence from Stillwell Hills-Oggyarden Group coastline	1150	7	
WALKDEN-BROWN, Dr. Steven (Steve)	Health status of the Weddell seal (Leptonychotes weddellii)	1151	3	
LAYBOURN-PARRY, Prof. Johanna (Jo)	The Molecular and Physiological Mechanisms of Microbial Survival in Antarctic Lakes	1152	4	
QUILTY, Prof. Patrick (Pat)	Drygalski Agglomerate, Heard Island: age and environment of formation	1154	1	
	Keystone or collage? U-Pb and Ar-Ar geochronology of metasediments from the southern Prince Charles Mountains and the amalgamation history of the East Antarctic Shield	1155	1	C
FITZSIMONS, Dr. Ian	Ecological resource modelling	1156	12	
CONSTABLE, Dr. Andrew	Geochemistry of basement rocks and lake sediments of the Larsemann Hills	1157	1	
GASPARON, Dr. Massimo	Heard Island glacier fluctuations and climatic change	1158	5	C
ALLISON, Dr. Ian	The automated astrophysical site testing observatory	1159	15	
BURTON, Prof. Michael	East Antarctic and Circum-Antarctic climate history in Queen Mary Land / An Australian contrib	1163	15	
GOODWIN, A/Prof. Ian	Remediation of petroleum contaminants in the Antarctic and subantarctic	1163	15	
SNAPE, Dr. Ian	Investigations of Space Weather and the Mesosphere using the TIGER Radar	1164	15	
MAKAREWICH, Dr. Roman	Cold adaptation and functionality of the Antarctic Coastal Benthic Zones	1165	3	
BOWMAN, Dr. John	Interaction between Carbon and Sulfur Cycles in Antarctic Stratified Lakes and Fjords	1166	5	
VOLKMAN, Dr. John	Coring and cable recovery on Law Dome	1168	1	
MORGAN, Mr. Vincent (Vin)	Sediment and water budgets for selected lakes in the Larsemann Hills, Eastern Antarctica	1170	3	
BURGESS, Dr. James (Jim)	Sea ice primary production off eastern Antarctica	1171	9	
MCMINN, Prof. Andrew	The effect of spatial and temporal variation in marine productivity on energy acquisition in southern elephant seals, Mirounga leonina	1171	9	
HINDELL, Prof. Mark	The relationship between climatic/environmental signals from high resolution snow pit studies and meteorological conditions	1172	5	
CURRAN, Dr. Mark	Global change, biodiversity and conservation in terrestrial and coastal ecosystems on Heard an	1174	2	C
SELURK, Dr. Patricia	Investigation of the vertical structure and mixing of the water column in the coastal waters off Casey station and its implications on contaminant movement	1176	1	
MORRIS, Dr. Carl (Ric)	Global change, biodiversity and conservation in terrestrial and coastal ecosystems on Heard an	1179	2	C
SIMPSON, Prof. Rodney (Rod)	Global change, biodiversity and conservation in terrestrial and coastal ecosystems on Heard and McDonald Islands: statistical models for monitoring and predicting effects of climate change and local human impacts on invertebrates	1180	2	C
DAVIES, Dr. Irend	Heard Island 2003/04: Terrestrial biology: Documenting vegetation change on Heard Island			
KIRKPATRICK, Prof. James (Jame)	Prevalence of viruses and parasites in populations of house mice on Macquarie Island	1181	2	C
LAWSON, Dr. Malcolm (Mal)	Internal Structure of Uppermost Oceanic Crust Exposed on Macquarie Island: implications for Seafloor Spreading Processes	1183	3	
KARSON, Dr. Jeffrey (Jeff)		1184	1	

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ARANGO, Dr. Claudia	Diversity and evolution of Australian Antarctic sea spiders: Understanding species diversification and distribution patterns	3010	4	
WORBY, Dr. Anthony (Tony)	Physical and biological processes associated with early season (April-May) sea ice growth and ice edge location	3012	2	
LAYBOURN-PARRY, Prof. Johanna (Jo)	Biogeography in saline lake diroflagellates: evolutionary jumps between limnic and marine systems	3022	1	
MASSOM, Dr. Robert (Rob)	Remote Sensing of Near-Coastal Antarctic Sea Ice and Its Impacts on Ice Shelves and Ecosystems	3024	4	R
CURRAN, Dr. Mark	Aurora Basin North Ice Core Drilling 08/09: Past and Present Climate	3025	1	
TRULL, Dr. Thomas (Tom)	The role of iron as a micro-nutrient to the Antarctic sea-ice zone algal community	3026	2	
UESER, Dr. Ian	Large scale air-borne sea ice thickness measurements	3030	1	
HEIL, Dr. Petra	An observatory of coastal sea ice and environment	3032	4	
BREADMORE, A/Prof. Michael	A new method for characterisation of Antarctic microbial communities	3033	3	
ROBINSON, Prof. Sharon	Understanding the tolerance of Antarctic mosses to climate change	3042	4	R
QUILTY, Prof. Patrick (Pat)	Testing a Kerguelen Plateau hotspot trace hypothesis	3043	1	
ROBERTS, Dr. Donna	Southern Ocean Calcareous Zooplankton Response to Ocean Acidification	3046	4	
RINTOUL, Dr. Stephen (Steve)	Measuring westward reorganisation in the subpolar gyre of the southeastern Indian Ocean: A US Australian collaborative experiment	3049	2	C
SIMMONDS, Prof. Ian	Polar lows over the subantarctic waters	3050	4	
MILLER, Dr. Karen	Resilience of Antarctic marine benthic invertebrates and the ecological consequences of environmental change	3051	4	
		3054	4	
HARRISON, Prof. Peter	Ecological risks from oil products used in Antarctica: characterising hydrocarbon behaviour and assessing toxicity on sensitive early life stages of Antarctic marine invertebrates	3061	4	
BRYANT, Prof. Gary	Water content and freezing tolerance of Antarctic mosses - indicators of climate change	3064	4	
SMITH, Dr. Andrew	High resolution studies of cosmogenic beryllium isotopes (10Be and 7Be) at Law Dome	3067	4	
YOUNG, Mr. Neal	Change in ice shelf - ice stream systems	3067	4	
MC FARLANE, Dr. Rosemary (Ro)	Infectious diseases of Antarctic seals with potential population, zoonotic and quarantine significance	3070	1	R
BERGSTRÖM, Dr. Dana	Understanding the impact of change on Australia's World Heritage subantarctic islands.	3095	4	R
ROBERTS, Dr. Jason	ICECAP - Casey/Aurora Basin Component	3103	4	
WORBY, Dr. Anthony (Tony)	Investigation of physical and biological processes in the Antarctic sea ice zone during spring using in situ, aircraft and underwater observations	3113	2	
BENGTSON NASH, A/Prof. Susan	Persistent Organic Pollutants and Emerging Contaminants of Concern: System Input From Local and Distant Contamination Sources	3115	3	
SAUNDERS, Dr. Kryngha	Quantifying the effects of long term environmental change on World Heritage Macquarie Island	3117	3	
MC GOWAN, A/Prof. Hamish	THE POLAR FÖHN OF THE MACMURDO DRY VALLEYS: AN AGENT OF ENVIRONMENTAL CHANGE AND LANDSCAPE EVOLUTION	3119	2	
ELLWOOD, Dr. Michael	Southern Ocean nutrients and their links to climate change: insights from the metal and silicon isotope signature of diatoms	3120	2	
WATSON, Dr. Christopher	Mass balance of the Totten basin in East Antarctica: Estimation and calibration from ground, air and space-based observations (TOT-Ca)	3121	2	
BOWMAN, Dr. John	Proteorhodopsins in Southern Ocean Bacteria	3127	3	
ROBINSON, Prof. Sharon	Monitoring climate change induced desertification of Antarctica using stable isotopic signatures	3129	2	
LUCIER, A/Prof. Arko	Spatial analysis of changing terrestrial ecosystems in the Windmill Islands and the sub-Antarctic	3130	3	
CROPP, Dr. Roger	An assessment of variability in the influx of cosmic dust during the Holocene and the potential effect on iron concentrations in the Southern Ocean.	3132	2	
BYRNE, Prof. Maria	Vulnerability of Antarctic marine benthos to increased temperatures and ocean acidification associated with climate change	3134	2	
BURTON, Prof. Michael	Robotic Science from the High Plateau	3137	3	
ALEXANDER, Dr. Simon	Dynamical Variability of the Lower Atmosphere	3140	3	
CAVICCHIOLI, Prof. Ricardo (Rick)	Monitoring Environmental Health and the Impacts of Climate Change – the Australian Southern-Ocean Genome-Based Microbial Observatory (ASOMO)	3145	2	
VAN DEN HOFF, Mr. John	Reconstructing the foraging ecology and molecular evolution of sub-Antarctic penguins: A	3203	3	
ARMAND, Dr. Leanne	KEOPS II: Sediment parameters, export analysis and composition (SPEAK)	3214	2	
RAJARATNAM, A/Prof. Shantha	The role of sleep and circadian phase on crew safety, performance and psychological health during long-term analog space missions	3224	2	
HINDELL, Prof. Mark	From Physics to Animals: Integration and synthesis of Antarctic predator tracking data with oceanographic and sea-ice data	3227	1	
BINDOFF, Prof. Nathaniel (Nathan)	Southern Ocean mixing: Unique float observations of eddy exchange across the Antarctic Circumpolar Current	3228	1	
PETELINA, Dr. Svetlana	Impact of Black Saturday bushfire plume and other pyrocarbon emissions on stratospheric ozone above Antarctica	3229	1	
MC MINN, Prof. Andrew	Sea ice microbial community dynamics in a changing climate	4008	4	
ASHLEY, Prof. Michael	Robotic Science on the High Antarctic Plateau	4011	5	
KLEKOCLOK, Dr. Andrew	Polar FOXCAs: Polar Feedbacks between Ozone Recovery and Climate in the Southern hemisphere	4012	5	
DEAGLE, Dr. Bruce	Krill ecological genomics	4014	6	R
DEAGLE, Dr. Bruce	Molecular analysis of diet and age of animal populations	4014	6	
YOSHIIKAWA, Prof. Akimasa	MAGNETic Data Acquisition System (MAGDAS) Project at the International Center for Space Weather Science and Education (ICSWSE)	4020	10	
BERGSTRÖM, Dr. Dana	Conservation Decision-making in Antarctic Terrestrial Ecosystems: 1.Allen Species	4024	4	R
MURPHY, Dr. Damian	Gravily wave drag parameterization in climate models	4025	4	
DAVIDSON, Dr. Andrew	Effects of Ocean Acidification on marine microbes in the Southern Ocean	4026	6	
STEVENS, Prof. Geoffrey (Geoff)	Development of contaminant metal removal systems suitable for implementation in cold regions.	4029	5	
ZIEGLER, Dr. Philippe	Assessment and monitoring of fisheries in Australia's Antarctic and sub-Antarctic Territories in the Indian Ocean sector of the Southern Ocean	4030	6	R
CAVICCHIOLI, Prof. Ricardo (Rick)	Monitoring Ecosystem Stability in Model Marine-Derived Antarctic Lake Systems	4031	2	
SCHOFIELD, Dr. Robyn	Bromine control of the mercury flux into the biosphere of the Southern Ocean and Antarctic regions	4032	3	
KAWAGUCHI, Dr. So	Experimental krill biology: Response of krill to environmental change	4037	7	R
ROBINSON, Prof. Sharon	Modelling spatial patterns and identifying environmental drivers for temporal change in Antarctic moss communities	4046	5	R
KAWAGUCHI, Dr. So	Assessing change in krill distribution and abundance in Eastern Antarctica	4050	5	
LANNUZEL, Dr. Delphine	Role of Antarctic sea ice as a natural ocean fertilizer during the spring 2012-13 sea ice research voyage SIPEX-2	4051	3	C
MOY, Dr. Andrew	High Resolution East Antarctic Climate History (HIREACH): Ice core records of continental, hemispheric and global change	4061	5	
MOY, Dr. Andrew	Law Dome Summit Snow-Climate Observatory	4062	5	
TAYLOR, Prof. Mike	Antarctic Gravity Wave Imaging Network (ANGWIN) for Collaborative Mesospheric Research	4072	3	R
HEIL, Dr. Petra	A multi-instrument approach to derive East Antarctic sea-ice dynamics	4073	2	C
MEINERS, Dr. Klaus	Sea Ice Physics and Ecosystems Experiment II: an integrated study of physical and ecological sea ice processes off East Antarctica during spring	4073	2	
CURRAN, Dr. Mark	Aurora Basin North ice coring	4075	7	
ROBERTS, Dr. Jason	ICECAP- Investigating Cryospheric Evolution through Collaborative Aerogeophysical Profiling in the Australian Antarctic Territory	4077	5	C
ARMAND, Dr. Leanne	Grass of the Oceans: quantifying biodiversity, environmental and climatic connectivity from a decade-long capture of Southern Ocean diatoms	4078	4	
SIMMONDS, Prof. Ian	The analysis of Antarctic upper air and surface temperature trends since the IGY and the identification of their causes using climate model analyses	4080	5	
SOUTHWELL, Dr. Colin	Detecting potential fishery related and climate change impacts through the CCAMLR processes	4086	7	R
EMMERSON, Dr. Louise	Monitoring the status and trends of Antarctic seabirds to improve fisheries management and energetics and dynamics of Polar Low based on high resolution model output	4087	7	
SOUTHWELL, Dr. Colin	Geoscience Australia geodetic and geophysical monitoring program	4088	7	
BATHGATE, Mr. Jonathan / DAWSON	Interactions between ice shelf and ocean in the cavity beneath the Amery ice shelf	4091	3	
GALTON-FENZL, Dr. Benjamin (Ben)	Development of environmental risk assessment and remediation guidelines for Antarctic and subantarctic marine and terrestrial environments.	4092	10	
KING, Dr. Catherine (Cath)	Antarctic bales: whale habitat utilisation and linkages to environmental characteristics	4096	7	R
DOUBBLE, Dr. Michael (Mike)	Population abundance, trend, structure and distribution of the endangered Antarctic blue Southern Ocean Continuous Plankton Recorder Survey (SO-CPR Survey)	4101	6	R
DAVIDSON, Dr. Andrew	Status and trends of Macquarie Island Albatrosses and Giant Petrels: management and conservation of threatened seabirds	4107	10	R
ALDERMAN, Dr. Rachael	Determination of the ultraviolet radiation environment at the Australian Antarctic Stations using broadband and spectral instrumentation	4112	6	R
GIES, Dr. Hans (Peter)	Large-scale Change and Variability in Antarctic Sea Ice and Links with the Ice Sheet	4115	10	
MASSOM, Dr. Robert (Rob)	The seasonal dynamics of Persistent Organic Pollutants in coastal Antarctic waters from a coupled, vertically resolved fugacity food web model.	4116	6	
CROPP, Dr. Roger	Modelling ocean wave / sea ice interactions: experimental validation and assimilation into operational models	4121	4	
BENNETTS, Dr. Luke	Quantification and prediction of marine biodiversity at a range of geographical and ecological scales for spatial protection and management	4123	4	
JOHNSON, Prof. Olg	A Free Ocean CO2 Enrichment Experiment (FOCE) to estimate effects of ocean acidification on benthic habitats	4124	4	
STARK, Dr. Jonathan (Jonny)	How do Antarctic space-weather disturbances propagate northward to influence ionospheric density and structure above Australia and the Southern Ocean?	4127	4	
CONDE, Dr. Mark	Southern Ocean circulation and water mass formation in a warming world	4130	5	
RINTOUL, Dr. Stephen (Steve)	LCA in the last frontier: quantifying the environmental impacts and environmental impact reduction strategy for Australia's Antarctic infrastructure	4131	6	R
VERGHESE, A/Prof. Karli	Residual toxicity and risk assessment of petroleum hydrocarbons in Antarctic and sub-Antarctic soils.	4134	5	
HOSE, A/Prof. Grant	Secondary production associated with sea ice during SIPEX II: biomass, diversity and trophic links between lower trophic level invertebrates.	4135	5	C
SWADLING, Dr. Kerrie	Toxicity of chemically and physically dispersed fuels on Antarctic marine biota - applicability of dispersant use for fuel spill response planning	4140	2	
HARRISON, Prof. Peter	Antarctic Black Carbon Records of Past Climate and Fire Emissions	4142	4	
EDWARDS, Dr. Peter (Ross)	Antarctic Mass Balance: Data Mining and Assimilation of Geoscient Observations	4144	4	
MCCLEURY, Dr. Simon	High resolution reconstructions of climate and ecosystem variability in the sub-Antarctic Mesospheric OH Climate Assessment (MOMCA)	4155	3	
SAUNDERS, Dr. Kryngha	Ecology and control methods: Managing the invasive weed Poa annua in the Australian sub-Antarctic	4156	5	
FRENCH, Dr. William (John)	GPS Radio Occultation for studying the Antarctic Atmosphere and Climate Analysis	4157	4	R
KRISTIANSEN, Dr. Paul	What is happening in Enderby Land?	4158	4	
ZHANG, Prof. Jiefei	Greenhouse gases in the southern atmosphere	4159	3	
TREGONING, Dr. Paul	The Role of Magnetospheric Plasma Waves in Driving Space Weather	4160	4	
ETHERIDGE, Dr. David	Signature biomarkers for contaminant exposure associated with sewage and refuse legacy waste disposal sites in Antarctic fish and bivalves	4167	10	
MEINK, Prof. Frederik	Human impacts on nearshore ecosystems.	4172	6	
MONDON, Dr. Julie	Team cohesion, collaboration, and effectiveness	4177	4	R
STARK, Dr. Jonathan (Jonny)	Conservation genetics of Antarctic seabirds and seals: population connectivity and past glacial refugia	4180	5	
KOZLOWSKI, Prof. Steve	The Windmill-Bunger connection: a key to geodynamic models for the Precambrian Australian-Antarctic continent	4181	5	R
BURRIDGE, Dr. Christopher (Chris)	Predicting change: Will morphological constraints on hydraulic function limit acclimation of subantarctic plants to a warmer climate?	4184	4	
HAND, Prof. Martin	Long-term measurements of atmospheric nitrogen dioxide at Macquarie Island	4191	3	
BALL, Prof. Marilyn	High resolution studies of cosmogenic beryllium isotopes (10Be and 7Be) at Law Dome.	4192	4	
QUIBEL, Dr. Richard	Ocean forced evolution of the Antarctic Ice Sheet	4193	10	
SMITH, Dr. Andrew	Ice rheology for ice sheet modelling	4200	5	
GALTON-FENZL, Dr. Benjamin (Ben)	Impact of changes in sea ice extent on primary productivity in the Southern Ocean: links between the iron and carbon cycles in fast ice and the marginal ice zone	4287	5	
TREVERROW, Dr. Adam	The Antarctic Clouds and Radiation Experiment (ACRE)	4289	4	
LANNUZEL, Dr. Delphine	Australia-China Ozone Research Nexus (ACORN)	4291	3	
ALEXANDER, Dr. Simon	Evidence-based spatial protection of Antarctica's biodiversity	4292	5	
KLEKOCLOK, Dr. Andrew	Conserving Antarctica's biodiversity under multiple stressors	4293	5	
RAUDAUS, Dr. Aleksandrs (Aleks)	An integrated study of Antarctic land-fast sea ice physical and biological processes	4296	5	
FULLER, Dr. Richard	Towards an estimate of East Antarctic Sea-Ice Volume and its variability	4297	4	
MEINERS, Dr. Klaus	Post Eridication Ecosystem Response on Macquarie Island	4301	4	
HEIL, Dr. Petra	Ecophysiological forecasting for mitigating environmental change in Antarctica	4305	6	
SHAW, Dr. Justine	The structure of Southern Ocean clouds	4307	2	
CHOWN, Prof. Steven	Multi-species animal tracking: analytical methods and application	4308	5	
HAMILTON, A/Prof. Murray	Where to hide? Conservation options for a sub-Antarctic keystone species	4311	3	R
RAYMOND, Dr. Benjamin (Ben)	Using high throughput DNA metabarcoding to investigate Southern Ocean pelagic ecosystems	4312	4	
MC GEECH, A/Prof. Melodie		4315	2	
DEAGLE, Dr. Bruce	Characterising the microbial interactions that drive organic sulphur cycling in Antarctic waters	4316	3	
PETROU, Dr. Katerina	The geological evolution of Heard Island, Australian Sub-Antarctic	4317	3	
CAREY, Dr. Rebecca	Removing bias from estimates of East Antarctica's contribution to present and past sea-level changes	4318	5	
KING, Prof. Matthew	Response of sea ice algae to multiple co-stressors	4319	4	
MC MINN, Prof. Andrew	Characterising East Antarctic seabed habitats	4320	5	R
POST, Dr. Alexandra (Ala)	Designing regular krill survey of predator monitoring sites	4321	5	R
KAWAGUCHI, Dr. So	Predicting contaminant toxicity and risk in polar systems	4326	5	R
JOLLEY, Dr. Dianne	Seals from Space: Developing techniques to use satellite remote sensing to census pack-ice seals in the Prydz Bay region of East Antarctica	4328	5	R
HINDELL, Prof. Mark	Seals as Oceanographic Samplers	4329	3	
HARCOURT, Prof. Robert (Rob)	boundaries	4331	6	
SWADLING, Dr. Kerrie	When Sinks Become Sources: Understanding Persistent Organic Pollutant Behaviour in Dynamic Polar Environments	4332	4	
BENGTSON NASH, A/Prof. Susan		4333	3	
ARMAND, Dr. Leanne	Interactions of the Totten Glacier with the Southern Ocean through multiple glacial cycles.	4338	4	
COFFIN, Prof. Millard (Mike)	Submarine Volcanism and Hydrothermalism around Heard and McDonald Islands	4340	3	
SIEMS, A/Prof. Steven (Steve)	Boundary Layer Processes over the Southern Ocean: Winds, Turbulence and Clouds	4341	3	
SINDEL, Prof. Brian	Changes in the ecology and control of introduced non-native plants following pest herbivore eradication in the sub-Antarctic: Stellaria media	4342	4	
SCHOFI, Dr. Christian	Outlet Glacier Dynamics in Princess Elizabeth Land	4343	5	CR
CONSTABLE, Dr. Andrew	Assessing status and trends of marine ecosystems in the Indian Sector of the Southern Ocean	4344	4	CR
CONSTABLE, Dr. Andrew	ICECAP II	4346	4	C
ROBERTS, Dr. Jason	Projecting ecosystem change in the Southern Ocean using end-to-end models	4347	2	
MELBOURNE-THOMAS, Dr. Jessica	Integrated Marine Observing System Southern Ocean Time Series automated moorings for climate and carbon cycle studies southwest of Tasmania	4352	3	
TRULL, Dr. Thomas (Tom)	Reconstructing East Antarctica in Gondwana: ground-truthing a new tectonic model	4353	3	
HALPIN, Dr. Jacqueline	Towards a large-scale Antarctic Nearshore and Terrestrial Observing System (ANTOS): Scaling and optimising unmanned airborne observations of moss ecosystems	4361	4	
LUCIER, A/Prof. Arko	Using size-based models to understand the role of mesopelagic fish and squid in Southern Ocean ecosystems	4363	3	
HINDELL, Prof. Mark	Searching for Selwyn - does an exotic crustal block underlie northern Victoria Land?	4366	3	
BOGER, Dr. Steven (Steve)	The role of volcanoes in maintaining Antarctic terrestrial biodiversity	4368	3	
FRASER, Dr. Cerdwyn (Crid)	Solar and satellite animal tracking: analytical methods and applications	4370	6	
WOTHERSPON, Dr. Simon	Modelling wilderness and aesthetic value in Antarctica	4374	2	R
SUMMERSON, Dr. Rupert	Precipitation over Land And the southern Ocean (PLATO)	4380	1	
ALEXANDER, Dr. Simon	Multi-scale characterisation of the Antarctic sea-ice response in a changing environment	4387	5	R
HEIL, Dr. Petra	Shallow water bathymetric mapping using high-resolution multippectral satellite imagery	4390	3	
SMITH, Dr. Justie	Assessment of landscape vulnerability to human impacts in the Vestfold Hills, Prydz Bay	4392	4	R
MCLENNAN, Dr. Stephanie (Steph)	Development and application of new highly sensitive low volume capillary ion chromatography techniques to deliver higher resolution ice core derived paleoclimatic records	4393	5	
PAULL, Prof. Brett	Atmospheric carbon fluxation: a novel strategy driving niche development and climate adaptation in polar desert soils	4405	2	
FERRARI, A/Prof. Belinda	Autonomous sea ice observations of wave-ice interactions in the Marginal Ice Zone	4406	5	
MEINERS, Dr. Klaus	Ponds on Antarctic Sea Ice, and Their Linked Physical and Biological Importance	4408	3	
METLAN, A/Prof. Michael (Mike)	IPICS 2k ice core array: Filling the climatological gap of the Indian Ocean sector from Wilhelm II	4409	1	
MASSOM, Dr. Robert (Rob)	IPICS 2k ice core array: Filling the climatological gap of the Indian Ocean sector from Wilhelm II	4410	5	
VANCE, Dr. Tessa	Response of the Totten Glacier to past climate warming	4414	5	
VANCE, Dr. Tessa: I	NEW APPROACH TO ICE MELTING RATES: DIRECT NUMERICAL SIMULATION	4415	5	
NOBLE, Dr. Tawn	Reconstructing Carbon-14 of Carbon Monoxide to Constrain Long-Term Atmospheric Hydroxyl	4419	5	
HOGG, A/Prof. Andrew (Andy)	CAMMPICAN - Chemical and Mesoscale Mechanisms of Polar Cell Aerosol Nucleation	4422	2	
ETHERIDGE, Dr. David	Drift of the Antarctic ice edge	4425	4	
SCHOFIELD, Dr. Robyn	Totten Ice Dynamics and Evolution	4426	3	
BENNETTS, Dr. Luke	Age and origin of the magmatism along the transpressional Australian-Pacific plate boundary	4434	3	
KING, Prof. Matthew	High-latitude gravity wave processes and their parameterization in climate models	4436	3	
JOURDAN, A/Prof. Fred	The Kerguelen Large Igneous Province: dynamics of a pulsating mantle plume	4444	2	
MURPHY, Dr. Damian		4445	5	
JOURDAN, A/Prof. Fred		4446	4	

REICHMANN, A/P/Prof. Suzanne (Klein)	Using diatoms to reconstruct micro-invertebrates to assess environmental impacts of soil	4460	2
ATKIN, Al Dean	Tectonics Erosion and Topography in East Antarctica	4460	2
	Monitoring of the Atmosphere over the Australian and Antarctic regions using GNSS radio	4469	7
NORMAN, Dr Robert	Tracking the evolution of Southern Ocean variability and change	4479	7
RIOTUOLU, Dr Stephen (Steve)	Unveiling the terrestrial eukaryote diversity of Antarctica	4482	3
CHOWN, Prof. Steven	Antarctic sea-ice thickness: Synthesis and future development	4482	3
JOHNSON, Prof. Peter	Mapping, predicting and monitoring ecological change in the Southern Ocean	4500	5
SPEDING, Mr Timothy (Tim)	Reducing Environmental Impacts at Contaminated Sites in Antarctica	4503	5
WILCOX, Dr Peter	Observatory of East Antarctic near-surface atmosphere and cryosphere	4506	5
ROBERTS, Dr Jason	ICECAP - EA&LE	4511	2
	Ensuring sustainable management of the krill fishery in waters off the Australian Antarctic	4512	4
WATERMANN, Dr Susanna (Susie)	Ice-growth models as proxies for atmospheric climates	4512	4
EMMERSON, Dr Louise	Outcomes for Antarctic breeding seabirds	4518	4
WHITTAKER, Dr Jonathan (Jo)	Continental Shelf	4520	5
BENNETT, Dr Andrew	A susceptibility index for ice shelf disintegration due to sea ice loss and swell impacts	4523	5
MO, Dr Andrew	East Antarctic Synthesis of Ice cores (EASI) - ice core records of continental, hemispheric and	4537	4
HOPE, Prof. Mary-Anne	implementation of an effective genetic monitoring approach in the Subantarctic	4538	3
HOOG, A/P/Prof. Andrew (Andy)	Modeling sea ice loss at High Resolution	4541	4
MEINERS, Dr Klaus	the spring transition	4546	5
	Long-term monitoring of solid Earth deformation and structure in East Antarctica	4547	5
WILG, Prof. Matthew	Determining the Extent and Nature of the Oldest Crust in Antarctica	4548	5
DEWAR, Dr Megan	Diseases of Antarctic Wildlife	4548	5
STOUT, Dr Leone	Shaping the future use of environmental DNA (eDNA) in Southern Ocean ecosystem	4549	5
WILCOX, A/P/Prof. Peter	Antarctic subglacial carbonates as archives of biological and life in extreme	4550	5
WIENECKE, Dr Barbara	The long term monitoring of status and trends of Emperor penguins and Southern giant petrels: a	4564	5
ABOUH, Dr Jara	Conservation Planning for Antarctic Stations	4565	5
WHITTAKER, Dr Jonathan (Jo)	Onset of the Antarctic Circumpolar Current	4567	5
KEITH, Prof. David	Assessing risks to Antarctic terrestrial and nearshore ecosystems	4571	3
MORRISSEY, Dr Laura	The Rayner Complex, a hot place in the Rodinia puzzle	4578	3
WILSON, FENDI, Dr Benjamin (Ben)	State Estimate of East Antarctica's Ice	4578	3
ZIEGLER, Dr Philippe	Assessment and monitoring of Australia's finfish fisheries in the Southern Ocean	4578	4
RUFFOLO, Prof. David	Cosmic ray monitoring at Mawson and Kingston to study space weather and space physics	4580	4
CARSON, Prof. Christopher (Chris)	Microstructure and rheological changes in experimentally-derived ice from the Law Dome	4581	4
	The re-awakening of a mantle plume – the nature and petrogenesis of Neogene volcanism on the	4590	4
WILLY, Dr Rebecca	Central Kerguelen Plateau	4591	3
	Sediments and saturation at the ice shelf-bedrock interface zone from passive seismology	4592	2
READING, Prof. Chris	Terrestrial microbial biodiversity in the Vestfold Hills: structure, drivers, and protection	4592	2
GREENING, Dr Anja	Antarctic Dynamics of the Antarctic Peninsula: Synthesis and Modelling, with End	4592	2
BABANI, Prof. Benjamin (Ben)	A meta-analysis of genetic structure in Antarctic species to support conservation decision	4597	2
KEITH, Dr Rebecca	Isotopic constraints to further test the deep-seated Balleny plume vs. tectonic reorganization	4598	3
COULSON, Dr Peter (Pete)	Antarctic environmental management and management of Antarctic waste – post-expedition status,	4603	1
CHOWN, Prof. Steven	Securing Antarctica's Environmental Future (SAEF) - Case Study 21-22	4613	1
CARLSON, Dr Kristan (Kris)	and management	4619	2
WHITMORE, Dr Timothy	Towards a lighter touch: human impact assessments to support environmental stewardship	4620	2
	A Cleaner Antarctica	4625	2
SPEDING, Mr Timothy (Tim)	Ecosystem study [MARE]	4626	2
HEIL, Dr Peter	Southern Ocean Sea Level Monitoring Network	4626	2
GILTON-FENDI, Dr Benjamin (Ben)	ARC SIEAS SAEF: Securing Antarctica's Environmental Future - An Evidence-Based, Informatics	4629	2
CHOWN, Prof. Steven	AUOAR: the stability of the Deaman Ice Shelf System	4629	2
THOMPSON, Dr Sarah	Antarctic Centre for Excellence in Antarctic Science (ACEAS)	4631	1
KEITH, Dr Rebecca	SAEP Denman Marine	4631	1
HERAIZ-BORQUEGUEIRO, Dr Laura	Million Year Ice core (MNIC)	4632	2
FEARD, Dr John	BEAUTY - Biodiversity of East Antarctica: Underwater and Terrestrial	4632	2
SPEDING, Mr Timothy (Tim)	Coupled physical-biological processes in the Antarctic sea-ice zone during the melt season	4637	2
MEINERS, Dr Klaus	Sustainable Management of Antarctic Krill and Conservation of the Krill-based Ecosystem	4640	2
KAWAGUCHI, Dr Elzabeta	Antarctic Atmospheric Observations	4640	2
MURPHY, Dr David	SAEP: Linking carbon cycling and water mass transformation in Prydz Bay	4642	2
BATHGATE, Mr Jonathan	Geoscience Australia's Geodetic and Geophysical Monitoring Program	4642	2
BERGMAN, Dr Dana	Antarctic Nearshore and Terrestrial Observing System - East Antarctica (East-ANTOS)	4646	2
HARDMAN, Mr David	UV monitoring	4646	2

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hyperlink to project description on AAD web site				
Index	Project	Season	who	project title
1	3	1986/87	ALLISON, Dr. Ian	Glaciology of the Hinterland of the Lambert Glacier Basin *
2	4	1986/87	FRASER, Prof. Brian	Propagation of PC1-2 Pulsations Across the Polar Cap
3	6	1986/87	JACKA (DECEASED), Dr. Fred	Upper Atmosphere Dynamics - Mawson
4	7	1986/87	YOUNG, Mr. Neal	Distribution, size and dissolution of Antarctic icebergs [observational]
5	12	1986/87	AYTON, Dr. Jeffrey (Jeff)	ANARE health register [observational]
6	13	1986/87	AYTON, Dr. Jeffrey (Jeff)	Human interaction with the antarctic environment
7	15	1986/87	MORGAN, Mr. Vincent (Vin)	Deep Ice Drilling on Law Dome
8	16	1986/87	MORRIS, Dr. Raymond (Ray)	Australia's Magnetospheric Research in Antarctica
9	18	1986/87	QUILTY, Prof. Patrick (Pat)	Origin of Krill-based Ecosystem
10	25	1986/87	BURNS, Dr. Gary	Vertical Electric Field
11	27	1986/87	DENNIS, Mr. Stewart	AGSO Geomagnetic Observatories [Projects 27 and 10 combined - Project No. 760 from 94/95 onwards]
12	29	1986/87	DULDIG, Dr. Marcus (Marc)	Variations of cosmic radiation [observational]
13	30	1986/87	HUMBLE, Dr. John	Low energy cosmic rays at Mawson [this project has been incorporated in #29 Variations of cosmic radiation from 2000-01 (DULDIG)]
14	39	1986/87	COLE, Prof. Keith	Hydroxyl Airglow and Mesospheric Temperatures
15	40	1986/87	WRIGHT, Dr. Simon	The role of antarctic marine protists in trophodynamics and global change and the impact of UV-B on these organisms
16	43	1986/87	BURNS, Dr. Gary	O(1S) Effective Lifetimes
17	46	1986/87	KERRY, Dr. Knowles	Development of an Automated Penguin Recording System and its Subsequent Use in the CCAMLR Ecosystem Monitoring Program
18	48	1986/87	SEPPELT, Prof. Rod	Biology of a Terrestrial Continental Antarctic Ecosystem: Adaptive Strategies and Physiological Ecology of Terrestrial and Aquatic Plants
19	61	1986/87	BURTON, Mr. Harry	Sulfur gas production by the alga 'Phaeocystis' in Antarctic waters
20	77	1986/87	SELKIRK, Dr. Patricia	Quaternary Vegetation History of Australian Subantarctic Islands
21	78	1986/87	SELKIRK, Dr. Patricia	Floristics, reproduction, dispersal, and genetic variation of subantarctic and antarctic bryophytes
22	79	1986/87	GOLDSWORTHY, A/Prof. Simon	Recovery of the Fur Seal Population at Macquarie Island
23	86	1986/87	QUILTY, Prof. Patrick (Pat)	Pliocene Vertebrate Palaeontology, Marine Plain, Vestfold Hills, Antarctica
24	89	1986/87	BURTON, Mr. Harry	Population monitoring and ecology of Weddell seals at the Vestfold Hills
25	97	1986/87	MULLER, Prof. Hans (Konrad)	Analysis of immunity in Antarctic expedition personnel (INCORPORATED IN PROJ #13 FROM 2001-02)
26	98	1986/87	GRAS, Dr. John	Antarctic and Southern Ocean atmospheric aerosol study
27	99	1986/87	ESSEX, Dr. Elizabeth	Satellite Signal Scintillations
28	102	1986/87	BEARDALL, Dr. John	Biology of Antarctic Algae
29	120	1986/87	ELLIS, Dr. David	Petrogenesis of Antarctic Charnockites and Evolution of the Earth's Early Crust
30	124	1986/87	ETHERIDGE, Dr. David	Concentration and isotopic measurements of radiatively important gases in the southern atmosphere [observational]
31	125	1986/87	GREENSLADE, Dr. Penelope	Terrestrial Invertebrates of Heard Island
32	126	1986/87	GREEN, Prof. David	Mafic Dykes and Shear Zones in the Vestfold Hills, East Antarctic Shield
33	143	1986/87	JAGO, A/Prof. James (Jim)	The Biostratigraphy of Middle and Late Cambrian Faunas of Northern Victoria Land, Antarctica
34	155	1986/87	VAN FRANEKER, Dr. Jan	Ecology of Antarctic fulmarine petrels
35	189	1986/87	ALLISON, Dr. Ian	The East Antarctic sea ice zone: characteristics and ocean- ice-atmosphere interaction
36	228	1986/87	QUILTY, Prof. Patrick (Pat)	Marine Geology of Surficial Sediments, Prydz Bay, Antarctica
37	239	1986/87	WILLIAMS, Dr. Richard (Dick)	Studies on the Fish of the Prydz Bay Region
38	240	1986/87	SHAUGHNESSY, Dr. Peter	Fur Seals at Heard Island, Abundance and Mother Pup Relations
39	242	1986/87	LENNON, Prof. Geof	Towards a Coordinated Program of Australian Antarctic Oceanography
40	276	1986/87	ADAMSON, Dr. Donald (Don)	Cainozoic History of the Bunger Hills Region: A Study of the Dynamic Interaction of Ice and Land
41	279	1986/87	ESSEX, Dr. Elizabeth	Satellite Beacon Studies of the Ionosphere in the Southern Auroral Region
42	291	1986/87	ALLISON, Dr. Ian	Satellite Glaciology
43	294	1986/87	BARTON, Dr. Charles	Location and Motion of the South Magnetic Pole
44	303	1986/87	BURNS, Dr. Gary	Equipment Run for Other Research Agencies
45	308	1986/87	BURTON, Mr. Harry	Physiological Tolerances of Some Antarctic Zooplanktons
46	310	1986/87	BURTON, Mr. Harry	Coring Analyses of Cores from Near Shore Sites in the Vestfold Hills
47	313	1986/87	BUTCHER, Dr. Eric	Oblique Propagation Ionosphere Studies
48	314	1986/87	CHAMALAUN, Dr. Francois	Geomagnetic Variations Studies on Kerquelen Island
49	318	1986/87	LU, Dr. Chung	A Survey of the Benthic Marine Invertebrates of Prydz Bay, Antarctica
50	326	1986/87	GORMLY, Dr. Peter	Gastrointestinal Disease & Hypothermia on Polar Field Work (Incorporated in Project 13 [Lugg] from 1989/90)
51	327	1986/87	ESSEX, Dr. Elizabeth	Radio Propagation Studies
52	328	1986/87	ETTERSHPANK, Dr. George	Hormonal Control of Ecdysis in the Antarctic
53	332	1986/87	FRANCEY, Dr. Roger	Meridional and Seasonal Variations in the Stable Isotopes of Atmosphere CO2 [This project has been superceded by ASAC Project 124 - Francey, Pearman]
54	354	1986/87	HEATWOLE, Prof. Harold (Hal)	Ecological Relationships of Antarctic Tardigrades
55	357	1986/87	HIGGINBOTTOM, Mr. Ian	Hydroacoustic Determination of the Abundance and Distribution of Krill in the Region of Prydz Bay, Antarctica
56	365	1986/87	IKEDA, Dr. Tom	Abundance, Life Cycle and Potential Productivity of Euphasia superba in Prydz Bay
57	370	1986/87	DENHAM, Dr. David	Installation of a Long-Period Seismograph, Macquarie Island
58	371	1986/87	JOHNSTONE, Dr. Gavin	Availability of Food of Vertebrate Predators in Neritic Zone, Magnetic Island
59	372	1986/87	JOHNSTONE, Dr. Gavin	Population Dynamics of Breeding Colonies of Seabirds in the Davis Region
60	374	1986/87	JOHNSTONE, Dr. Gavin	Population Studies of Northern Giant Petrels and Wandering Albatross at Macquarie Island
61	241	1986/87	KIRKWOOD, Mr. John	The Zooplankton Ecology of Ellis Fjord
62	382	1986/87	LEES, Mr. Terry	The Sulphide Deposit at Caroline Cove, Macquarie Island
63	385	1986/87	LUNDQVIST, Prof. Jan	Till and Moraine Formation in Dry Areas
64	390	1986/87	MAHER, Dr. William	Input of Anthropogenic Hydrocarbons to the Antarctic Environment
65	397	1986/87	MCCUE, Mr. Kevin	Monitoring of Earthquakes and Nuclear Explosions
66	400	1986/87	NICHOLLS, Dr. Ian	Genesis of Volcanic Rocks, Heard Island
67	402	1986/87	O'BRIEN, Mr. Domonic	Analysis of Swarming Behaviour in Antarctic Krill Using In Situ Observations
68	403	1986/87	O'DONNELL, Mr. Peter	IAGP Glaciology Support at Casey and Hinterland
69	411	1986/87	QUILTY, Prof. Patrick (Pat)	Palaeogene Biostratigraphy, Heard Island
70	414	1986/87	QUILTY, Prof. Patrick (Pat)	Direct Measurement of Carbonate Compensation Depth (CCD) in Prydz Bay - an attempt to Measure Dissolution Rates of Calcite Blocks as a Guide to Identifying (CCD) in Prydz Bay
71	419	1986/87	ROBERTSON, Dr. Graham	Diet and Feeding Ecology of Emperor Penguins
72	423	1986/87	PETERSON, Dr. James (Jim)	Distribution and Dynamics of Vegetation in Relation to Natural Disturbance Factors, Heard and McDonald Islands
73	432	1986/87	STAHL, Mr. Peter	Biological Survey of Prince Charles Mountains
74	435	1986/87	THOMAS, Mr. Paul	Spawning frequency and fecundity of the Antarctic neritic euphausiid, Euphausia crystallorophias
75	446	1986/87	WILLIAMS, Dr. Richard (Dick)	Taxonomy and Zoogeography of Fishes around Macquarie Island
76	449	1986/87	WILSON, Prof. Christopher (Chr	Tectonic and Metamorphic Evolution of the Bunger Hills Region
77	453	1986/87	WOOLLER, A/Prof. Ronald	Consistent Individuality of Voice in Antarctic Sea Birds
78	457	1986/87	YOUNG, Mr. Neal	The Dynamics of the Outlet Glaciers
79	461	1986/87	COCHRAN, Dr. Tonia	A Study of the Reproductive Biology of the Brooding Chiton Hemiarthrum Setulosum. Collection of Subantarctic Marine Invertebrates from Macquarie Island
80	663	1986/87	KLEINSCHMIDT, Dr. Georg	Shear Zones in the Bunger Hills, Antarctic Shield: Fabrics, Kinematics and Relations to History of Deformation and Metamorphism
81	2	1987/88	ALLISON, Dr Ian	Outlet Glacier Dynamics
82	3	1987/88	ALLISON, Dr Ian	Glaciology of the Hinterland of the Lambert Glacier Basin