

TABLE 2

Name	Discipline	Post-ice research responsibilities	Post-ice analyses	Sampling interval	Sample size	Number of samples
Tim Naish (NZ)	Co Chief Scientist	Overall leadership and management of MIS science activities, Co-ordination of post-drilling workshop, publication of initial science report, co-ordination of science integration workshop, publication of science results volumes. Co-ordinate synthesis papers and the production of popular articles. Promote the successes of the project through conference				
Ross Powell (US)	Co Chief Scientist	Overall leadership and management of MIS science activities, Co-ordination of post-drilling workshop, publication of initial science report, co-ordination of science integration workshop, publication of science results volumes. Co-ordinate synthesis papers and the production of popular articles. Promote the successes of the project through conference				
Richard Levy (SMO)	Staff Scientist	Responsible for ensuring the effective implementation of the MIS science plan by helping co-ordinate the post-ice core workshop, and the science integration workshop	Work with Crampton and Harwood and PhD student on quantitative stratigraphic correlation of MIS and other high-latitude records			
TBA (US)	EPO Co-ordinator	Leadership and co-ordination of the ARISE Programme educators and facilitate successful completion of MIS ARISE				
Laura Lacy (SMO)	Research Support Coordinator	SMO research support co-ordinator for MIS workshops and publication of materials				
Megan Berg (SMO)	Graphics and web	Web site management and graphics.				
Josh Reed (CHRONOS)	Database Coordinator	Ongoing support of data management and visualisation systems.				
Matt Olney (US)	Head Curator	Co-ordinate core viewing and sampling at post drilling core workshop, ongoing support of core studies.				
Matt Curren (US)	Assistant Curator	Co-ordinate core viewing and sampling at post drilling core workshop, ongoing support of core studies.				
Betty Trummel (US)	ARISE					
LuAnn Dahlman (US)	ARISE					
Vanessa Miller (US)	ARISE					
Julian Thompson (NZ)	ARISE					
Alexander Siegmund (DE)	ARISE					
Matteo Cattadori (IT)	ARISE					

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Name	Discipline	Post-ice research responsibilities	Post-ice analyses	Sampling interval	Sample size	Number of samples
Sedimentology						
Larry Krissek (US)	Discipline Team Leader/ sedimentology	Leadership and co-ordination of the sedimentology/stratigraphy team. Responsible for co-ordinating the sedimentology group at post-drilling workshop and identifying key areas of scientific interest for further work and publication. Help co-chiefs with the production and editing of science results volumes and the initial reports	Major contributor and compiler for the initial report. Attend and help facilitate core workshop. Ensure co-ordination of post-ice scientific investigations, interpretations and syntheses. Help co-ordinate and edit thematic issues and science report papers for the Sedimentology/stratigraphy group. Analyze a limited number of mudrock samples for bulk and clay mineralogy using XRD to infer temporal variations in weathering conditions and provenance.	2-5m	20cc	400-600
Robert McKay (NZ)	Sedimentary petrology	Contribute to initial report. Attend core workshop. Sediment textural analyses and contribution to facies analysis, depositional and provenance history. PhD student	Sample diamictites for clast analysis, shape, orientation and glacial features.	facies dependent	25cm whole core	facies dependent
Lionel Carter (NZ)	Marine sedimentology	Contribute to initial report. Attend core workshop. Continue general sedimentological interpretation in the context of oceanographic and glacial marine processes.	Based on core characterisation phase, undertake high-resolution sedimentological and geochemical analyses (Mg/Ca on forams) and contribute to integration of multidisciplinary datasets. Integrate with far-field coeval oceanographic data.	intense sampling over limited intervals	20cc	?
Ellen Cowan (US)	Glacial sedimentology	Contribute to initial report. Attend core workshop. Continue the characterisation and interpretation of glacial facies and integrate with sedimentology team	If necessary continue sampling for thin-section microscopic analyses of glacial	all facies	thin section block or 10cc in unconsolidated sediments	?
Gavin Dunbar (NZ)	Facies analysis	Contribution to initial report. Attend core workshop. Sediment textural analyses and contribution to facies analysis and depositional and environmental history.	Grainsize analysis (laser). Possible sampling of diatomaceous intervals for geochemical analysis of sea-ice proximity	diatomaceous facies	10cc	limited number of diatomaceous facies
Thom Wilch (US)	Volcaniclastic sedimentology	Contribution to initial report. Attend core workshop. Further characterization and interpretation of the mode of emplacement of volcaniclastic deposits. Contribute to volcanic history and age assessment	Additional sampling of volcaniclastic intervals	dependent on occurrence	1-2cc	dependent on occurrence

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Name	Discipline	Post-ice research responsibilities	Post-ice analyses	Sampling interval	Sample size	Number of samples
Linda Hinnov (US)	Spectral analysis	Await data produced by the sedimentology and chronostratigraphic teams. There may not be a need at this stage to be engaged. Contribute to initial report. Attend core	Contribute to cyclostratigraphic analysis of proxy datasets as required			
Giovanna Georgetti (IT)	Sedimentology/mineralogy	Contribute to sediment geochemistry in collaboration with Larry Krissek and the sedimentology team and also the petrology team (Kuhn, Bellanca). Specifically, sand XRD, bulk XRF and ICPMS analyses.	Mineralogical and geochemical characterisation	1 sample/1 kyr	5-10cc	sedimentation rate dependent
Molly Miller (US)	Ichnology	Await appropriate samples from the on-ice sedimentology team for analysis. Depending on need for interpretive data and core quality, this may be required at during drilling. Contribute to initial report if necessary and attend core workshop.	Conduct study on the trace fossil component of the core, from visual inspection, x-ray and slabs	where appropriate material occurs	whole core slabs - non-destructive	<10
Paleontology/biostratigraphy						
Reed Scherer (US)	Discipline Team Leader/ diatom	Leadership and co-ordination of the paleontology/biostratigraphy team. Responsible for co-ordinating the group at post-drilling workshop and identifying key areas of scientific interest for further work and publication. Help co-chiefs with the production and editing of science results volumes and the initial reports	Major contributor and compiler for the initial report. Attend and help facilitate core workshop. Ensure co-ordination of post-ice scientific investigations, interpretations and syntheses. Help co-ordinate and edit thematic issues and science report papers for the Paleontology group. Review core material at the workshop and determine further sampling intervals. Further characterization and interpretation of the biostratigraphy and paleoenvironmental history. Work with the Chronostratigraphic Team to determine reliable age-depth			
Erica Crouch (NZ)	Marine palynology	Contribute to initial report. Continue analysis of marine palynomorphs in collaboration with the paleontology and sedimentology group.	Undertake biostratigraphic and environmental analysis and interpretations. Additional sampling if required.			
Martin Crundwell (NZ)	Foraminifera	If significant numbers of forams are encountered work with Percy Strong to undertake foraminiferal census work for palaeoecological reconstructions and biostratigraphy.				

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Ross Powell (US)	Co Chief Scientist	Overall leadership and management of MIS science activities, Co-ordination of post-drilling workshop, publication of initial science report, co-ordination of science integration workshop, publication of science results volumes. Co-ordinate synthesis papers and the production of popular articles. Promote the successes of the project through conference				
Richard Levy (SMO)	Staff Scientist	Responsible for ensuring the effective implementation of the MIS science plan by helping co-ordinate the post-ice core workshop, and the science integration workshop	Work with Crampton and Harwood and PhD student on quantitative stratigraphic correlation of MIS and other high-latitude records			
TBA (US)	EPO Co-ordinator	Leadership and co-ordination of the ARISE Programme educators and facilitate successful completion of MIS ARISE				
Laura Lacy (SMO)	Research Support Coordinator	SMO research support co-ordinator for MIS workshops and publication of materials				
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Matt Olney (US)	Head Curator	Co-ordinate core viewing and sampling at post drilling core workshop, ongoing support of core studies.				
Matt Curren (US)	Assistant Curator	Co-ordinate core viewing and sampling at post drilling core workshop, ongoing support of core studies.				
Betty Trummel (US)	ARISE					
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Name	Discipline	Post-ice research responsibilities	Post-ice analyses	Sampling interval	Sample size	Number of samples
Diane Winter (US)	Diatom biostratigraphy	Review core material at the workshop and determine further sampling intervals. Further characterization and interpretation of the biostratigraphy and paleoenvironmental history. Work with the Chronostratigraphic Team to determine reliable age-depth model for the cored section.	Undertake biostratigraphic and environmental analysis and interpretations. Additional sampling if required.			
Woody Wise (US)	Nannofossil biostratigraphy	Contribute to initial report. Attend core workshop. Help co-ordinate core workshop. If appropriate material undertake analysis of nannofossils for palaeoecology and biostratigraphy. Collaborate with paleontology group and the ANDRILL science team as appropriate	Sampling for nannofossil biostratigraphy. Undertake biostratigraphic and environmental analysis and interpretations.	every c. 10 cm in each fine-grained lithology	2cc	
Physical properties						
Frank Niessen (DE)	Discipline Team Leader/ MST scanning	Leadership and co-ordination of the physical properties team. Responsible for co-ordinating the this group at post-drilling workshop and identifying key areas of scientific interest for further work and publication. Help co-chiefs with the production and editing of science results volumes and the initial reports	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required. Major contributor and compiler for the initial report. Attend and help facilitate core workshop. Ensure co-ordination of post-ice scientific investigations, interpretations and syntheses. Help co-ordinate and edit thematic issues and science report papers for the Physical Properties group.			
Andrea Catalina Gebhardt (DE)	MST Tech					
Rich Jarrard (US)	Downhole logging	Contribute to initial report. Attend core workshop. Receive data from on-ice downhole logging team and process the data in a preliminary, but timely way for the on-ice report.	Further analysis of data, interpretation synthesis and integration with other teams.			
Stuart Henrys (NZ)	VSP - seismic stratigraphy	Contribute to the integration of the borehole and core data with more regional seismic stratigraphic architecture of the Victoria Land Basin. Contribute to the Neogene tectonic evolution of the basin with collaborators.	Further analysis of data, interpretation synthesis and integration with other teams.			
DhiresH Hansaraj (NZ)	VSP - seismic stratigraphy	MSc student with Henrys and Naish. Thesis will involve seismic well correlations and interpretations.	Further analysis of data, interpretation synthesis and integration with other teams.			
Diana Magens (DE)	MST Tech	?				

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Name	Discipline	Post-ice research responsibilities	Post-ice analyses	Sampling interval	Sample size	Number of samples
Andreas Laeufer (DE)	Whole core fractures	Contribute to initial report. Attend core workshop. Contribute with US collaborators to the investigation the kinematics and dynamics of rifting, the related faulting history and palaeostress states in the western Ross Sea during the Neogene-Recent.	Further analysis of data, interpretation synthesis and integration with other teams.			
Roger Morin (US)	Down hole logging	Contribute to initial report. Attend core workshop. Once all data have been collected. produce documentation of	Further analysis of data, interpretation synthesis and			
Tim Paulsen (US)	Whole core fractures	Contribute to initial report. Attend core workshop. Before the core sampling workshop process data on fracture type, dip direction, dip angle, and depth for intact core intervals, make thin sections and begin petrographic microstructural analyses for palaeostress analysis. Submit a supplementary research proposal for Science Documentation Phase for data sorting, orientation analysis, palaeostress analysis, interpretation, and preparation of manuscripts for publication.	Further analysis of data, interpretation synthesis and integration with other teams.			
Trevor Williams (US)	Down hole logging	Contribute to initial report. Attend core workshop. Continue to work on and analyze data.	Further analysis of data, interpretation synthesis and integration with other teams.			
Cristina Milan-Martinez (US)	Whole core fractures	Contribute to initial report. Attend core workshop. Make thin sections and begin petrographic microstructural analyses focused on description, classification, and interpretation of clastic dykes, veins, and microfaults. Create digital whole-core intervals for core orientation.	Further analysis of data, interpretation synthesis and integration with other teams.			
Travis Crosby (US)	Down hole logging	Contribute to initial report. Attend core workshop. Continue to work on and analyze data.	Further analysis of data, interpretation synthesis and integration with other teams.			
Terry Wilson (US)	Whole core fractures/hydrofracture	Contribute to initial report. Attend core workshop. Before the core sampling workshop process data on fracture type, dip direction, dip angle, and depth for intact core intervals, make thin sections and begin petrographic microstructural analyses focused on description, classification, and interpretation of clastic dykes, veins, and microfaults. Submit a supplementary research proposal for Science Documentation Phase for data sorting, orientation analysis, palaeostress analysis, contemporary stress analysis, interpretation, and preparation of manuscripts for publication.	Further analysis of data, interpretation synthesis and integration with other teams.			

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Name	Discipline	Post-ice research responsibilities	Post-ice analyses	Sampling interval	Sample size	Number of samples
	Geochronology/Chronostratigraphy					
Gary Wilson (NZ)	Discipline Team Leader/ paleomagnetism	Leadership and co-ordination of the geochronology/chronostratigraphy team. Responsible for co-ordinating the group at post-drilling workshop and identifying key areas of scientific interest for further work and publication. Help co-chiefs with the production and editing of science results volumes and the initial reports. Lead the development of the age model	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required. Major contributor and compiler for the initial report. Attend and help facilitate core workshop. Ensure co-ordination of post-ice scientific investigations, interpretations and syntheses. Help co-ordinate and edit thematic issues and science report papers for the Chronostratigraphy/ Geochronology group.	see Wilson G		
Fabio Florindo (IT)	Paleomagnetism	Contribute to initial report. Attend core workshop. Contribute to paleomagnetic analysis of the MIS core with other members of the paleomagnetic team. Also contribute to the integrated chronostratigraphic framework for the MIS drillcore and correlation to other Antarctic and Southern Ocean drillcores.	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required .	see Wilson G		
Christian Ohneiser (NZ)	Paleomag Tech	Contribute to initial report. Attend core workshop. Contribution to the analysis, interpretation of the paleomagnetic data under the supervision of Gary Wilson. Production of a PhD thesis using MIS paleomagnetic data.	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required.			
Glenn Berger (US)	Luminescence dating of quartz	Contribute to initial report. Attend core workshop. Grain-quartz luminescence dating of selected Pleistocene-Holocene horizons. May receive samples for laboratory analysis if any appropriate material is found and it is deemed useful to obtain a date at that particular interval.	Thermoluminescence dating	only fine-sand dominant horizons	1 2-oz cylindrical tin (60 ml: 51mm diam. x 32mm deep) and 2 15-ml tins (34 mm diam. x 15 mm deep)	3 through all of core
Stefanie Brachfield (US)	Paleomagnetism	Contribute to initial report. Attend core workshop. Processing samples sent by the on-ice paleomagnetic's team for establishing magnetostratigraphy during drilling.	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required .	see Wilson G		
James Crampton (NZ)	Quantitative stratigraphic correlation (CONOP)	Contribute to quantitative stratigraphic analysis and correlation of the MIS drillcore record with other Ross Sea and Southern Ocean drill sequences using CONOP. Contribute to an integrated chronostratigraphy for the MIS drill core. Collaborations will be most closely with Richard Levy, but will also involve the paleontology, sedimentology and geochronology teams.	Further analysis of data, interpretation synthesis and integration with other teams. Support PhD student and work with Harwood and Levy			

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Name	Discipline	Post-ice research responsibilities	Post-ice analyses	Sampling interval	Sample size	Number of samples
Ian Graham (NZ)	Sr Chronology	Contribute to initial report. Attend core workshop. Receive and prepare carbonate material (if suitable) at GNS Science for Sr geochronology. Co-ordinate analyses and interpret results. Marco Taviani (micropaleontology's) will identify and sample material on-ice. Attend core workshop and contribute to the integrated chronostratigraphy of the ANDRILL MIS core.	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required.	fossiliferous material for Sr dating depending on occurrence		
Leah Joseph (US)	Paleomagnetism	Contribute to initial report. Attend core workshop. Further process the data and provide interpretations that integrate with other sedimentological/stratigraphic/structural data and interpretations	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required.	see Wilson G		
Bill Mackintosh (US)	Ar/Ar chronology	Perform Ar/Ar dating of tephra and volcanic rocks sent off-ice by the on-ice Petrology/Geochemistry Team, and provide results to the MIS team in a timely manner. Contribute to initial report. Attend core workshop.	Continue sampling and analysis of tephra for Ar chronology and contribute to the MIS age model	See Wilch and Kyle		
Jaakko Putkonin	¹⁰ Be cosmogenic chronology	Contribute to initial report. Attend core workshop. Work with on-ice sampling team to supply samples for dating analysis and perform preliminary dating on the samples as a test of the potential of this technique to constrain sediment age and history of the size of the ice sheet. Work in collaboration with Albert Zondervan of New Zealand.	If successful continue analysis and additional sampling if required. Contribute to MIS Age model.			
Leonardo Sagnotti (IT)	Paleomagnetism	Contribute to paleomagnetic analysis of the MIS core with other members of the paleomagnetic team. Also contribute to the integrated chronostratigraphic framework for the MIS drillcore and correlation to other Antarctic and Southern Ocean drillcores. Contribute to the development of environmental magnetic records and integrate with other proxies to address paleoclimatic and tectonic/provenance questions. Contribute to initial report. Attend core workshop.	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required .	see Wilson G		
Albert Zondervan (NZ)	¹⁰ Be cosmogenic chronology	Contribute to initial report. Attend core workshop. Contribute to the development of a Be-chronology for the drillcore and/or use Be/Al cosmogenic isotopic analysis of sediments as a paleoclimatic proxy. If suitable sediments can be identified. Attend the core workshop and collaborate with Jaakko Putkonen (US) who will also do Be-chronology. Contribute to the integrated chronostratigraphy with other MIS ANDRILL scientists.	If successful continue analysis and additional sampling if required. Contribute to MIS Age model.			

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Name	Discipline	Post-ice research responsibilities	Post-ice analyses	Sampling interval	Sample size	Number of samples
	Geochemistry/Petrology					
Massimo Pompilio (IT)	Discipline Team Leader/Igneous petrology and Volcanology	Leadership and co-ordination of the petrology/geochemistry team. Responsible for co-ordinating the group at post-drilling workshop and identifying key areas of scientific interest for further work and publication. Help co-chiefs with the production and editing of science results volumes and the initial reports. Lead the development of the age model. Individual research interests include volcanic petrology and geochemical characterisation and interpretation of primary volcanic material Collaborate with a the volcanic petrology group that comprises Phil Kyle, Nelia Dunbar , Thom Wilch, Riccardo Vannucci, Roberto Udisti and Andreas Veit.	Major contributor and compiler for the initial report. Attend and help facilitate core works. Ensure co-ordination of post- ice scientific investigations, interpretations and syntheses. Help co-ordinate and edit thematic issues and science report papers for the petrology and geochemistry group. Ensure that the group contributes to the understanding of the diagenetic processes represented by the core, sediment provenance (glacial history), uplift and erosion of the TAM, and the magmatic evolution and volcanic history of the Victoria land Basin.			
Gerhard Kuhn (DE)	Sediment geochemistry-XRF core scanning	Attend core workshop. Continue work on whole rock bulk XRF calibration of XRF scan data with Lothar Viereck-Goette and contribute to the provenance, erosional history and paleoclimatic interpretation of the core. XRF data will form a key component of the integrated dataset that will be of interest to many of the MIS ANDRILL Science Team	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required .			
Donata Helling (DE)	Sediment geochemistry-XRF core scanning	Collaborate with Gerhard Kuhn and Lothar Viereck-Goette	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required .			
Phil Kyle (US)	Igneous petrology and Volcanology	Attend core workshop. Contribute to initial report. Assist with volcanic examination of cores, select samples Ar dating, select samples for off-ice geochemistry.	Review core material at the workshop for further characterization and interpretation of the mode of emplacement of volcanic rocks. Contribute to volcanic history and age of the core. Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be			

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Franco Talarico (IT)	Clast petrology	Attend core workshop. Contribute to initial report. Contribute to petrographical and compositional characterisation of clasts to infer provenance. Collaborative with Alan Cooper and Sonia Sandroni and sedimentology team.	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required .			
Stefan Vogel (US)	Porewater geochemistry	Attend core workshop. Contribute to initial report.	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required .			
Fulvia Aghib (IT)	Sediment diagenesis	Attend core workshop. Contribute to the study of diagenetic features of the core. Specifically characterisation of the preservation of biogenic opal, documentation of fabrics, microstructures of diagenetic features, investigation of the origin of carbonate cement using cathodluminescence. Collaborate with Adriana Bellanca and Stefan Vogel.	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required .	1 sample/ev ery 5-10 meters,	10 cc	100
Joel Baker (NZ)	Isotope geochemistry and sediment provenance	Contribute to high precision isotopic analysis of bulk sediments and single grain detrital feldspar and zircon using Pb, Nd, Hf isotopes and Pb-Pb and Lu-Hf age determination. Contribute to crustal provenance studies. Working with Dickinson, Bakers lab	High precision Pb, Nd, Hf isotopic analyses of bulk samples and Pb-Pb and Lu-Hf age determination of single grain feldspar and zircon.	where appropriate	(i) 1 g of bulk sediment (mud or sand) for bulk isotopic analysis; (ii) up to several grams of bulk sediment (sand-sized) for extraction of feldspar and zircon separates	
Adriana Bellanca (IT)	Sediment geochemistry and diagenesis	Attend core workshop. Contribute to characterisation of major and trace element composition of sediment whole rock samples (sand) using XRF for provenance and erosional history. Collaborate with Gerhard Kuhn's group using XRF scanning. Collaborate with Fulvia Aghib and the pore water geochemistry group (Vogel and Tulaczyk) .Contribute to the analysis of carbonate cements in order to understand their evolution using stable isotope analyses, and bulk geochemical techniques.	Further analysis of data, interpretation synthesis and integration with other teams.	where appropriate	5 -10 g	

TABLE 2 cont'd

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Barry Cameron (US)	Geochemistry of volcanic glasses	Attend core workshop if suitable material is cored. Can use the geochemistry of glass in hyloclastites to estimate ice cover. As yet it is unknown if appropriate sample material will be recovered. May receive samples for laboratory analysis if any appropriate material is found and it is deemed useful to assess this procedure for interpreting the	Volatile analyses in volcanic glasses by micro FT-IR . Stable isotopes in volcanic glasses. Integration with other teams. More sampling may be required .	where appropriate material occurs	100 mg of glass material	ideally about 36 depending on types of materials recovered
Alan Cooper (NZ)	Clast petrology	Attend core workshop. Contribute to petrographical and compositional characterisation of clasts to infer provenance. Collaborative with Sonia Sandroni and Franco Talarico and sedimentology team.	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required .	where appropriate	thin section of clasts	
Nelia Dunbar (US)	Geochemistry and petrology of volcanoclastics rocks	Attend core workshop. Contribute to initial report. Will receive samples for laboratory analysis if any appropriate material is found for Ar-dating and it is deemed useful for a particular interval. Carry out preliminary basic petrological and mineralogical observations that include backscattered-electron (BSE) imaging and EMP determination to select particles for successive quantitative analysis and dating.	Further analysis of data, interpretation synthesis and integration with other teams in particular with B. Mackintosh (Geochronology) for characterising and dating tephra	occurrence dependent	10 <1g samples from each sample interval	30-40
Rob Dunbar (US)	Diatom biogeochemistry	Attend core workshop, Contribute to the dating of carbonates with C14, U/Th by ICPMS-ID. Measure sedimentary C13/N15. Collaborate with Christina Riesselman	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required.	2 cm in diatoms	2 cc	
Warren Dickinson (NZ)	Isotope geochemistry and sediment provenance	Attend core workshop. Contribute to high precision isotopic analysis of bulk sediments and single grain detrital feldspar and zircon using Pb, Nd, Hf isotopes and Pb-Pb and Lu-Hf age determination. Contribute to crustal provenance studies.	High precision Pb, Nd, Hf isotopic analyses of bulk samples and Pb-Pb and Lu-Hf age determination of single grain feldspar and zircon.	where appropriate	(i) 1 g of bulk sediment (mud or sand) for bulk isotopic analysis; (ii) up to several grams of bulk sediment (sand-sized) for extraction	
Kevin Mandernack (US)	Microbiology	Review core at the workshop to determine if there is any appropriate material for further analysis deeper in the core. Further characterization and interpretation of the geomicrobiological data if there is sufficient material recovered and it is appropriate. Contribute to the paleontological and biological characterization of the core in reports and papers.	Continue analysis of lipids, DNA and pore water geochemistry.			

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Christina Riesselman (US)	Diatom biogeochemistry	Attend core workshop. Contribute to initial report. Sample for geochemical analysis of diatoms for sea-ice proximity (work with Rob Dunbar) and productivity.	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required .	from 3.2 - 1.7 Ma with one sample per ~ 5 kyr	5-10cc	
Sonia Sandroni (IT)	Clast petrology	Attend core workshop. Contribute to petrographical and compositional characterisation of clasts to infer provenance. Collaborative with Alan Cooper and Franco Talarico	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required .	see Talarico	see Talarico	
Slawek Tulaczyk (US)	Pore water geochemistry and glacial evolution	Attend core workshop. Collaborate with Stefan Vogel, Kevin Mandernack.	see Vogel, Mandernack on-ice sampling plans. Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required. Analyse on ice pore water samples by Vogel for stable isotope geochemistry, chlorinity and sulphate concentration together with other standard pore water analytical measurements (pH, alkalinity, major cation and anion, trace elements.)			
Robert Udisti (IT)	Sediment and volcanoclastic rocks geochemistry	Attend core workshop. May contribute to the Initial report. Contribute trace element characterisation (using HR-ICP-MS) and isotopes (Sr-Nd) of sediments and bulk volcanoclastic rocks . Possible collaboration with Adriana Bellanca (bulk XRF), Gerhard Kuhn, Lothar Viereck-Goette (XRF scanning) and volcanic petrology group.	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required.	5m	20cc	240
Riccardo Vannucci (IT)	Geochemistry and petrology of volcanoclastics rocks	Attend core workshop. May contribute to the Initial report. Contribute to the geochemical characterisation (using LA-ICP-MS and Ion beam analysis) of the glass shards and minerals in volcanoclastic rocks in collaboration with Massimo Pompilio and the wider volcanic petrology group.	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required.	where appropriate	100-200cc	80-100
Andreas Veit (DE)	Geochemistry and petrology of volcanoclastics rocks	Attend core workshop. May contribute to the Initial report. Undertake geochemical characterisation of primary volcanic material (glass using EMP and LA-ICPMS). Collaborate with large volcanic petrology group.	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required. Attend core workshop.	where appropriate	5g	80

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Lothar Viereck-Goette (DE)	Sediment geochemistry-XRF core scanning	Attend core workshop. Continue work on whole rock bulk XRF calibration of XRF scan data with Gerhard Kuhn and contribute to the provenance, erosional history and paleoclimatic interpretation of the core. XRF data will form a key component of the integrated dataset that will be of interest to many of the MIS ANDRILL Science Team	Further analysis of data, interpretation synthesis and integration with other teams. More sampling may be required. Attend core workshop.	see Kuhn		