Table S1. List of survey data used to build Bedmap2. For each survey we provide the project name, institution, reference, source (DOI), firn correction, history, electromagnetic wave speed in ice, instrument used for acquisition and the centre frequency.

filename	project	institution	reference	source	firn correction	history	electromagnetic wave speed in ice	instrument	centre frequency
AWI_1994_DML1_AIR_BM2	Dronning Maud Land	Alfred Wegener Institute	https://doi.org/10.3189/172756499781820996	https://doi.org/10.1594/PANGAEA.957053	0	Incoherent	168.1	AWI EMR	150
AWI_1995_DML2_AIR_BM2	Dronning Maud Land	Alfred Wegener Institute	https://hdl.handle.net/10013/epic.15056	https://doi.org/10.1594/PANGAEA.957054	0	Incoherent	168.1	AWI EMR	150
AWI_1996_DML3_AIR_BM2	Dronning Maud Land	Alfred Wegener Institute	https://hdl.handle.net/10013/epic.15056	https://doi.org/10.1594/PANGAEA.957056	0	Incoherent	168.1	AWI EMR	150
AWI_1997_DML4_AIR_BM2	Dronning Maud Land	Alfred Wegener Institute	https://hdl.handle.net/10013/epic.15056	https://doi.org/10.1594/PANGAEA.957058	0	Incoherent	168.1	AWI EMR	150
AWI_1998_DML5_AIR_BM2	Dronning Maud Land	Alfred Wegener Institute	https://hdl.handle.net/10013/epic.15056	https://doi.org/10.1594/PANGAEA.957059	0	Incoherent	168.1	AWI EMR	150
AWI_2000_DML6_AIR_BM2	Dronning Maud Land	Alfred Wegener Institute	https://doi.org/10.1111/j.1365-246X.2012.05363.x	https://doi.org/10.1594/PANGAEA.957061	0	Incoherent	168.1	AWI EMR	150
AWI_2001_DML7_AIR_BM2	Dronning Maud Land	Alfred Wegener Institute	https://doi.org/10.1111/j.1365-246X.2012.05363.x	https://doi.org/10.1594/PANGAEA.957063	0	Incoherent	168.1	AWI EMR	150
AWI_2002_DML8_AIR_BM2	Dronning Maud Land	Alfred Wegener Institute	https://doi.org/10.1111/j.1365-246X.2012.05363.x	https://doi.org/10.1594/PANGAEA.957062	0	Incoherent	168.1	AWI EMR	150
AWI_2003_DML9_AIR_BM2	Dronning Maud Land	Alfred Wegener Institute	https://doi.org/10.1111/j.1365-246X.2012.05363.x	https://doi.org/10.1594/PANGAEA.957064	0	Incoherent	168.1	AWI EMR	150
AWI_2004_DML10_AIR_BM2	Dronning Maud Land	Alfred Wegener Institute	https://doi.org/10.1111/j.1365-246X.2012.05363.x	https://doi.org/10.1594/PANGAEA.957060	0	Incoherent	168.1	AWI EMR	150
AWI_2005_ANTSYSO_AIR_BM2	Shirase Glacier; Syowa Station; Dronning Maud Land (ANTSYSO)	Alfred Wegener Institute; National Institute of Polar Research	https://doi.org/10.1016/j.precamres.2013.02.008	https://doi.org/10.1594/PANGAEA.957065	0	Incoherent	168.1	AWI EMR	150
AWI_2007_ANTR_AIR_BM2	Dronning Maud Land; Princess Elizabeth Land; Dome A; Dome C	Alfred Wegener Institute	https://doi.org/10.5194/essd-11-1069-2019	https://doi.org/10.1594/PANGAEA.957066	0	Incoherent	168.1	AWI EMR	150
BAS_1994_Evans_AIR_BM2	Evans Ice Stream	British Antarctic Survey	https://doi.org/10.1016/S0040-1951(01)00236-0	https://doi.org/10.5285/2C261013-9A0E-447D-A5BB-B506610B14FF	10	Incoherent	168	BAS-built	150
BAS_1998_Dufek_AIR_BM2	Dufek Massif	British Antarctic Survey	https://doi.org/10.1016/S0012-821X(97)00165-9	https://doi.org/10.5285/5E2CF315-9265-4605-8643-382F2557009B	10	Incoherent	168	BAS-built	150
BAS_2001_Bailey-Slessor_AIR_BM2	Bailey Ice Stream; Slessor Glacier	British Antarctic Survey	https://doi.org/10.1029/2003JF000039	https://doi.org/10.5285/C5175014-A056-4799-A8C0-65B5FC433743	10	Incoherent	168	BAS-built	150

BAS_2001_MAMOG_AIR_BM2	Jutulstraumen Ice Stream (MAMOG)	British Antarctic Survey	https://doi.org/10.1111/j.1365-3121.2005.00651.x	https://doi.org/10.5285/84A273D9-8191-4316-B8F6-DC907EB0947A	10	Incoherent	168	BAS-built	150
BAS_2001_TORUS_AIR_BM2	Rutford Ice Stream (TORUS)	British Antarctic Survey	https://doi.org/10.5194/essd-14-3379-2022	https://doi.org/10.5285/4B2CCDA1-91EC-4C57-9AE0-07B9A387F352	10	Incoherent	168	BAS-built	150
BAS_2004_BBAS_AIR_BM2	Pine Island Glacier (BBAS)	British Antarctic Survey	https://doi.org/10.1029/2005GL025588	https://doi.org/10.5285/3ADB739A-9EDA-434D-9883-03AB092CABAE	10	Incoherent	168	PASIN	150
BAS_2005_WISE-ISODYN_AIR_BM2	Wilkes Subglacial Basin (WISE-ISODYN)	British Antarctic Survey	https://doi.org/10.5194/essd-14-3379-2022	https://doi.org/10.5285/59e5a6f5-e67d-4a05-99af-30f656569401	10	2D Synthetic Aperture Radar	168	PASIN	150
BAS_2006_GRADES-IMAGE_AIR_BM2	Evans Ice Stream; Rutford Ice Stream (GRADES-IMAGE)	British Antarctic Survey	https://doi.org/10.3189/2014AoG67A052	https://doi.org/10.5285/4EFA688E-7659-4CBF-A72F-FACAC5D63998	10	2D Synthetic Aperture Radar	168	PASIN	150
BAS_2007_AGAP_AIR_BM2	Gamburtsev Subglacial Mountains; Dome A (AGAP)	British Antarctic Survey	https://doi.org/10.1038/nature10566	https://doi.org/10.5285/0f6f5a45-d8af-4511-a264-b0b35ee34af6	10	2D Synthetic Aperture Radar	168	PASIN	150
BAS_2007_TIGRIS_GRN_BM2	Pine Island Glacier (TIGRIS)	British Antarctic Survey; University of Edinburgh	https://doi.org/10.1038/s41467-017-01597-y	-9999	10	2-D migration	168	DELORES	2
BAS_2009_Ferrigno_GRN_BM2	Ferrigno Ice Stream	British Antarctic Survey; University of Edinburgh	https://doi.org/10.1038/nature11292	-9999	10	2-D migration	168.5	DELORES	2
BAS_2010_IMAFI_AIR_BM2	Institute-Möller Ice Stream (IMAFI)	British Antarctic Survey	https://doi.org/10.1038/NGEO1468	https://doi.org/10.5285/7946C497-72FC-41CB-A9B2-BF9980EFE156	10	2D Synthetic Aperture Radar	168	PASIN	150
BAS_2010_PIG_AIR_BM2	Pine Island Glacier Ice Shelf	British Antarctic Survey	https://doi.org/10.1029/2012JF002360	https://doi.org/10.5285/E88F651C-3389-4D99-8333-07872DCEAB57	10	2D Synthetic Aperture Radar	168	PASIN	150
BGR_1999_GANOVEX-VIII-Mertz_AIR_BM2	Mertz Glacier (GANOVEX VIII)	Bundesanstalt für Geowissenschaften und Rohstoffe	-9999	-9999	0	Linear/logarithmic signal detection	168	BGR-TUHH helicopter-borne	150
BGR_1999_GANOVEX-VIII-Matusevich_AIR_BM2	Matusevich Glacier (GANOVEX VIII)	Bundesanstalt für Geowissenschaften und Rohstoffe	-9999	-9999	0	Linear/logarithmic signal detection	168	BGR-TUHH helicopter-borne	150
BGR_2002_PCMEGA_AIR_BM2	Lambert Glacier; Prince Charles Mountains (PCMEGA)	Bundesanstalt für Geowissenschaften und Rohstoffe	https://doi.org/10.1007/s00190-007-0189-2	-9999	0	Logarithmic signal detection	168	BGR-TUHH fixed-wing aircraft	150
INGV_1997_ITASE_AIR_BM2	Talos Dome; Oats Land (ITASE)	Istituto Nazionale di Geofisica e Vulcanologia	https://doi.org/10.3189/172756404781814591	-9999	-9999	-9999	168	INGV-IT GlacioRadar	60
LDEO_2007_Recovery-Lakes_AIR_BM2	Recovery Lakes	Lamont-Doherty Earth Observatory	-9999	-9999	-9999	1-D Synthetic Aperture Radar	-9999	LDEO radar	150

LDEO_2007_AGAP-GAMBIT_AIR_BM2	Gamburtsev Subglacial Mountains; Dome A (AGAP)	Lamont-Doherty Earth Observatory	https://doi.org/10.1126/science.1200109	https://doi.org/10.1594/IEDA/317765	-9999	1-D Synthetic Aperture Radar	-9999	LDEO radar	150
NASA_2002_ICEBRIDGE_AIR_BM2	NASA Operation IceBridge	Center for Remote Sensing of Ice Sheets; National Aeronautics and Space Administration; Centro de Estudios Científicos	https://doi.org/10.3189/172756404781813916	https://data.cresis.ku.edu/	0	2-D Synthetic Aperture Radar focused	169	ICORDS2	150
NASA_2004_ICEBRIDGE_AIR_BM2	NASA Operation IceBridge	Center for Remote Sensing of Ice Sheets	-9999	https://data.cresis.ku.edu/	0	2-D Synthetic Aperture Radar focused	169	ACORDS	150
NASA_2009_ICEBRIDGE_AIR_BM2	NASA Operation IceBridge	Center for Remote Sensing of Ice Sheets	https://doi.org/10.1029/2020RG000712	https://data.cresis.ku.edu/	0	2-D Synthetic Aperture Radar focused	169	MCoRDS	189-201
NASA_2010_ICEBRIDGE_AIR_BM2	NASA Operation IceBridge	Center for Remote Sensing of Ice Sheets	https://doi.org/10.1029/2020RG000712	https://data.cresis.ku.edu/	0	2-D Synthetic Aperture Radar focused	169	MCoRDS	189-199
NASA_2011_ICEBRIDGE_AIR_BM2	NASA Operation IceBridge	Center for Remote Sensing of Ice Sheets	https://doi.org/10.1029/2020RG000712	https://data.cresis.ku.edu/	0	2-D Synthetic Aperture Radar focused	169	MCoRDS	189-200
NASA_2012_ICEBRIDGE_AIR_BM2	NASA Operation IceBridge	Center for Remote Sensing of Ice Sheets	https://doi.org/10.1029/2020RG000712	https://data.cresis.ku.edu/	0	2-D Synthetic Aperture Radar focused	169	MCoRDS	189-200
NIPR_1999_JARE40_GRN_BM2	Dome Fuji (JARE40)	Japanese Antarctic Research Expedition; National Institute of Polar Research	-9999	-9999	-9999	Incoherent	168.7	VHF179	179
NIPR_2007_JASE_GRN_BM2	Dome Fuji (JASE)	Japanese Antarctic Research Expedition; National Institute of Polar Research	-9999	-9999	-9999	Incoherent	168.7	VHF179	179
NIPR_2007_JARE49_GRN_BM2	Dome Fuji (JARE-49)	Japanese Antarctic Research Expedition; National Institute of Polar Research	-9999	-9999	-9999	Coherent; Incoherent	168.7	POL179	179
NPI_2008_BELISSIMA_GRN_BM2	Roi Baudoin Ice Shelf Ice Rise	Norwegian Polar Institute	https://doi.org/10.3189/2012AoG60A106	-9999	0	Incoherent	168.4	University of Washington radar	5
NPI_2010_SRM_AIR_BM2	Sør Rondane Mountains; Dronning Maud Land	Norwegian Polar Institute	https://doi.org/10.3189/2015AoG70A010	https://doi.org/10.1594/PANGAEA.836299	0	Incoherent	168	AWIRES	150
PRIC_2007_CHINARE-24_GRN_BM2	Dome A (CHINARE-24)	Polar Research Institute of China	https://doi.org/10.1007/s11434-009-0546-z	-9999	0	Incoherent	168	NIPR radar	179
PRIC_2004_CHINARE-21_GRN_BM2	Dome A; Zhongshan Station (CHINARE-21)	Polar Research Institute of China	https://doi.org/10.1007/s11434-010-3238-9	-9999	0	Incoherent	168	NIPR radar	179
RNRF_2003_48RAEap5_AIR_BM2	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2004_49RAEap5_AIR_BM2	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2005_50RAEap5_AIR_BM2	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60

RNRF_2006_51RAEap5_AIR_BM2	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2006_KV1-area_AIR_BM2	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	RLS-60-98	60
RNRF_2007_52RAEap5_AIR_BM2	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2007_Mirny-Vostok_AIR_BM2	Mirny Station; Vostok traverse	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	RLS-60-98	60
RNRF_2008_Vostok-Subglacial-Lake_AIR_BM2	Vostok Subglacial Lake	Polar Marine Geosurvey Expedition	https://doi.org/10.15356/2076-6734-2012-4-31-38	-9999	0	Incoherent	168.4	RLS-60-98	60
RNRF_2008_53RAEap5_AIR_BM2	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2013_Vostok-Progress_AIR_BM2	Vostok Station; Progress Station traverse	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	RLS-60-06	60
STOLAF_1994_Siple-Dome_GRN_BM2	Siple Dome	St. Olaf College	https://doi.org/10.1029/95JB03735	https://doi.org/10.7265/N5Z31WJQ	0	2-D migration	168.5	St. Olaf College radar	3-5
STOLAF_2001_ITASE-Byrd-Ellsworth_GRN_BM2	Byrd Ice Core; Ellsworth Mountains (US-ITASE)	St. Olaf College	https://doi.org/10.1029/2003GL017210	https://doi.org/10.7265/N5R20Z9T	0	2-D migration	168.5	St. Olaf College radar	3
STOLAF_2001_ITASE-Ellsworth_GRN_BM2	Ellsworth Mountains (US-ITASE)	St. Olaf College	https://doi.org/10.1029/2003GL017210	https://doi.org/10.7265/N5R20Z9T	0	2-D migration	168.5	St. Olaf College radar	3
STOLAF_2002_ITASE-Hercules-Dome_GRN_BM2	Hercules Dome (US-ITASE)	St. Olaf College	https://doi.org/10.1029/2004JF000188	https://doi.org/10.7265/N5R20Z9T	0	2-D migration	168.5	St. Olaf College radar	3
STOLAF_2002_ITASE-Byrd-South-Pole_GRN_BM2	Byrd Ice core; South Pole (US-ITASE)	St. Olaf College	https://doi.org/10.1029/2004JF000188	https://doi.org/10.7265/N5R20Z9T	0	2-D migration	168.5	St. Olaf College radar	3
UCANTERBURY_2008_Darwin-Hatherton_GRN_BM2	Darwin–Hatherton glacial system	Gateway Antarctica University of Canterbury	https://doi.org/10.1017/jog.2017.60	-9999	4.7	Migration	168	pulseEKKO PRO	25
UTIG_1991_CASERTZ_AIR_BM2	Byrd Subglacial Basin; Bindschadler Ice Stream; Kamb Ice Stream; Willians Ice Stream	University of Texas Institute for Geophysics	https://doi.org/10.1029/AR077p0105	https://doi.org/10.15784/601588	0	Incoherent log-dectected	168.37	SOAR TUD IV (RADsh1, RADgh1 digitizer)	60
UTIG_1998_West-Marie-Byrd-Land_AIR_BM2	Western Marie Byrd Land	University of Texas Institute for Geophysics	https://doi.org/10.1029/2002GC000462	https://doi.org/10.7265/N5BZ63ZH	0	Incoherent log-dectected	168.37	SOAR TUD IV (RADgh1 digitizer)	60
UTIG_1999_SOAR-LVS-WLK_AIR_BM2	Transantarctic Mountains; South Pole; Lake Vostok; Dome C	University of Texas Institute for Geophysics; Lamont-Doherty Earth Observatory	http://dx.doi.org/10.1016/S0012-821X(04)00066-4	https://doi.org/10.15784/601588	0	Incoherent log-dectected	168.37	SOAR TUD IV (RADgh1 digitizer)	60
UTIG_2000_Robb-Glacier_AIR_BM2	Robb Glacier	University of Texas Institute for Geophysics	-9999	https://doi.org/10.15784/601604	0	Incoherent log-dectected	168.37	SOAR TUD IV (RADgh1 digitizer)	60

UTIG_2004_AGASEA_AIR_BM2	Thwaites Glacier; Smith Glacier (AGASEA)	University of Texas Institute for Geophysics	https://doi.org/10.1029/2005GL025561	https://doi.org/10.7265/N5W95730	0	2-D Synthetic Aperture Radar focused	168.4	HICARS	60
UTIG_2008_ICECAP_AIR_BM2	Aurora Subglacial Basin	University of Texas Institute for Geophysics	http://dx.doi.org/10.1038/nature10114	https://doi.org/10.5067/F5FGUT9F5089	0	pik1 (short coherent)	168.4	HICARS	60

Table S2. List of survey data added as part of the Bedmap3 release. . For each survey we provide the project name, institution, reference, source (DOI), firn correction, history, electromagnetic wave speed in ice, instrument used for acquisition and the centre frequency.

filename	project	institution	reference	source	firn correction	history	electromagnetic wave speed in ice	instrument	centre frequency
AWI_2013_GEA-IV_AIR_BM3	Dronning Maud Land (GEA-IV)	Alfred Wegener Institute; Bundesanstalt für Geowissenschaften	https://doi.org/10.1016/j.gr.2018.05.011	https://doi.org/10.1594/PANGAEA.938357	10	Incoherent	167.0	AWI EMR	150
AWI_2014_Recovery-Glacier_AIR_BM3	Recovery Glacier	Alfred Wegener Institute	https://doi.org/10.1029/2017JF004591	https://doi.org/10.1594/PANGAEA.894292	0	Incoherent	168.1	AWI EMR	150
AWI_2015_GEA-DML_AIR_BM3	Dronning Maud Land (GEA)	Alfred Wegener Institute; Bundesanstalt für Geowissenschaften	https://doi.org/10.1016/j.gr.2018.05.011	https://doi.pangaea.de/10.1594/PANGAEA.915475	0	Incoherent	168.0	AWI EMR	150
AWI_2016_OIR_AIR_BM3	Dome Fuji (Oldest Ice Reconnaissance)	Alfred Wegener Institute	https://doi.org/10.5194/tc-12-2413-2018	https://doi.pangaea.de/10.1594/PANGAEA.891323	10	Incoherent	167.0	AWI EMR	150
AWI_2018_DML-Coast_AIR_BM3	Dronning Maud Land coast	Alfred Wegener Institute; Tübingen University	-9999	https://doi.pangaea.de/10.1594/PANGAEA.911868	0	2D Synthetic Aperture Radar focussed	168.9	AWI UWB (MCoRDS v5)	195
AWI_2018_ANIRES_AIR_BM3	Dronning Maud Land (AniRES)	Tübingen University; Alfred Wegener Institute	-9999	-9999	8	Incoherent	168.0	AWI EMR	150
AWI_2018_JURAS_AIR_BM3	Jutulstraumen Ice Stream (JURAS)	Alfred Wegener Institute	https://doi.org/10.1002/esp.5203	https://doi.org/10.1594/PANGAEA.911475	0	2D Synthetic Aperture Radar focussed	168.9	AWI UWB (MCoRDS v5)	195
AWI_2019_JURAS_AIR_BM3	Jutulstraumen Ice Stream (JURAS)	Alfred Wegener Institute	-9999	https://doi.pangaea.de/10.1594/PANGAEA.910019	0	2D Synthetic Aperture Radar focussed	168.9	AWI UWB (MCoRDS v5)	195
BAS_2007_Lake-Ellsworth_GRN_BM3	Lake Ellsworth	British Antarctic Survey; Newcastle University	https://doi.org/10.1017/aog.2020.50	-9999	0	2-D migration	168	DELORES	2
BAS_2007_Rutford_GRN_BM3	Rutford Ice Stream	British Antarctic Survey	https://doi.org/10.5194/essd-8-151-2016	https://dx.doi.org/10.5285/54757cbe-0b13-4385-8b31-4dfaa1dab55e	10	2-D migration	167	DELORES	3
BAS_2008_Lake-Ellsworth_GRN_BM3	Lake Ellsworth	British Antarctic Survey; Newcastle University	https://doi.org/10.1017/aog.2020.50	-9999	0	2-D migration	168	DELORES	2
BAS_2010_IMAFI_AIR_BM3	Institute-Möller Ice Stream (IMAFI)	British Antarctic Survey	https://doi.org/10.1038/ngeo1468	https://doi.org/10.5285/7946c497-72fc-41cb-a9b2-bf9980efe156	10	2-D Synthetic Aperture Radar	168	PASIN	150
BAS_2011_Adelaide_AIR_BM3	Adelaide Island	British Antarctic Survey	https://doi.org/10.1093/gji/ggu233	-9999	10	2-D Synthetic Aperture Radar	168	PASIN	150
BAS_2012_Castle_GRN_BM3	Pine Island Glacier	British Antarctic Survey	-9999	-9999	10	2-D Synthetic Aperture Radar	168	DELORES	2

BAS_2012_ICEGRAV_AIR_BM3	Recovery Catchment (ICEGRAV)	British Antarctic Survey	https://doi.org/10.1144/SP461.17	https://doi.org/10.5285/6549203d-da8b-4a22-924b-a9e1471ea7f1	10	2-D Synthetic Aperture Radar	168	PASIN	150
BAS_2013_ISTAR_GRN_BM3	Pine Island Glacier (iSTAR)	British Antarctic Survey; University of Edinburgh	https://doi.org/10.1038/s41467-017-01597-y	-9999	10	2-D migration	168	DELORES	2
BAS_2015_POLARGAP_AIR_BM3	South Pole (PolarGAP)	British Antarctic Survey; European Space Agency	https://doi.org/10.1038/s41598-018-35182-0	https://doi.org/10.5270/esa-8ffoo3e	10	2-D Synthetic Aperture Radar	168	PASIN	150
BAS_2015_FISS_AIR_BM3	Filchner Ice Shelf System (FISS)	British Antarctic Survey	https://doi.org/10.5194/tc-15-1517-2021	https://doi.org/10.5285/144ceb0d-9d76-4a39-aa01-7b94ac80fac9	10	2-D Synthetic Aperture Radar	168	PASIN	150
BAS_2016_FISS_AIR_BM3	Filchner Ice Shelf System (FISS)	British Antarctic Survey	https://doi.org/10.5194/essd-14-3379-2022	https://doi.org/10.5285/e7851bba-21ff-4645-b557-d8eafdf89462	10	2-D Synthetic Aperture Radar	168	PASIN	150
BAS_2017_English-Coast_AIR_BM3	English Coast	British Antarctic Survey	https://doi.org/10.5194/essd-14-3379-2022	https://doi.org/10.5285/e07d62bf-d58c-4187-a019-59be998939cc	10	2-D Synthetic Aperture Radar	168	PASIN	150
BAS_2018_Thwaites_AIR_BM3	Thwaites Glacier (ITGC)	British Antarctic Survey	https://doi.org/10.5194/tc-14-2869-2020	https://data.cresis.ku.edu/	10	2-D Synthetic Aperture Radar	168	PASIN	150
BAS_2019_Thwaites_AIR_BM3	Thwaites Glacier (ITGC)	British Antarctic Survey	https://doi.org/10.5194/essd-14-3379-2022	https://doi.org/10.5285/7c12898d-7e55-458c-ba7d-ecec8252f3b5	10	2-D Synthetic Aperture Radar	168	PASIN	150
CRESIS_2009_Thwaites_AIR_BM3	Thwaites Glacier	Center for Remote Sensing of Ice Sheets	https://doi.org/10.1130/g46772.1	http://hdl.handle.net/1773/44950	0	MUSIC (Swath) Processing	168.91	MCoRDS	150
CRESIS_2009_Antarctica-TO_AIR_BM3	Thwaites Glacier; Pine Island Glacier	Center for Remote Sensing of Ice Sheets	https://doi.org/10.1130/g46772.1	https://doi.org/10.7910/DVN/M4C540	0	Synthetic Aperture Radar focused	168.91	MCoRDS	150
CRESIS_2013_Siple-Coast_AIR_BM3	Siple Coast	Center for Remote Sensing of Ice Sheets	https://doi.org/10.1109/JSTARS.2015.2403611	https://data.cresis.ku.edu/	0	Synthetic Aperture Radar focused	168.91	MCoRDS v4	150-450
CECS_2006_Subglacial-Lake-CECs_GRN_BM3	Subglacial Lake Centro de Estudios Científicos	Centro de Estudios Científicos	https://doi.org/10.1002/2015GL063390	-9999	-9999	Synthetic Aperture Radar unfocused	168	CECS radar	155
INGV_1997_Talos-Dome_AIR_BM3	Talos Dome; Terre Adelie	Istituto Nazionale di Geofisica e Vulcanologia	https://doi.org/10.4401/ag-3471	-9999	-9999	-9999	168	INGV-IT GlacioRadar	60
INGV_1999_Talos-Dome_AIR_BM3	Talos Dome; Terre Adelie	Istituto Nazionale di Geofisica e Vulcanologia	https://doi.org/10.4401/ag-3471	-9999	-9999	-9999	168	INGV-IT GlacioRadar	60
INGV_2001_Talos-Dome_AIR_BM3	Talos Dome; Oats Land	Istituto Nazionale di Geofisica e Vulcanologia	-9999	-9999	-9999	-9999	168	INGV-IT GlacioRadar	150
INGV_2003_Talos-Dome_AIR_BM3	Talos Dome; Queen Mary Land; Terre Adelie	Istituto Nazionale di Geofisica e Vulcanologia	-9999	-9999	-9999	-9999	168	INGV-IT GlacioRadar	60

LDEO_2015_ROSETTA_AIR_BM3	Ross Ice Shelf (ROSETTA)	Lamont-Doherty Earth Observatory	https://doi.org/10.1029/2019JF005241	http://www.ldeo.columbia.edu/polar-geophysics-group/data	0	1-D Synthetic Aperture Radar	168	DICE IcePod	188
NIPR_1992_JARE33_GRN_BM3	Dome Fuji (JARE33)	Japanese Antarctic Research Expedition; National Institute of Polar Research	https://doi.org/10.1029/1999JB900034	https://doi.org/10.17592/001.2021110902	-9999	Incoherent	168.7	VHF179	179
NIPR_1996_JARE37_GRN_BM3	Dome Fuji (JARE37)	Japanese Antarctic Research Expedition; National Institute of Polar Research	https://doi.org/10.1029/1999JB900034	https://doi.org/10.17592/001.2021110903 https://doi.org/10.17592/001.2022072001	-9999	Incoherent	168.7	VHF179	179
NIPR_1999_JARE40_GRN_BM3	Dome Fuji (JARE40)	Japanese Antarctic Research Expedition; National Institute of Polar Research	https://doi.org/10.1029/2003JB002425	https://doi.org/10.17592/001.2021110904	-9999	Incoherent	168.7	VHF179	179
NIPR_2007_JARE49_GRN_BM3	Dome Fuji (JARE49)	Japanese Antarctic Research Expedition; National Institute of Polar Research	https://doi.org/10.5194/tc-6-1203-2012	https://doi.org/10.17592/001.2022072203 https://doi.org/10.17592/001.2022072204 https://doi.org/10.17592/001.2021110905 https://doi.org/10.17592/001.2021110906	-9999	Coherent; Incoherent	168.7	POL179; VHF60	179; 60
NIPR_2007_JASE_GRN_BM3	Dome Fuji (JASE)	Japanese Antarctic Research Expedition; National Institute of Polar Research; Stockholm University	https://doi.org/10.5194/tc-6-1203-2012	https://doi.org/10.17592/001.2022072205; https://doi.org/10.17592/001.2022072206; https://doi.org/10.17592/001.2022072207; https://doi.org/10.17592/001.2022072208; https://doi.org/10.17592/001.2022072209; https://doi.org/10.17592/001.2022072210; https://doi.org/10.17592/001.2022072211	-9999	Incoherent	168.7	VHF179	179
NIPR_2012_JARE54_GRN_BM3	Dome Fuji (JARE54)	Japanese Antarctic Research Expedition; National Institute of Polar Research	https://doi.org/10.5194/tc-16-2967-2022	https://doi.org/10.17592/001.2021110907	-9999	Coherent	168.7	POL179	179
NIPR_2017_JARE59_GRN_BM3	Dome Fuji (JARE59)	Japanese Antarctic Research Expedition; National Institute of Polar Research	https://doi.org/10.5194/tc-16-2967-2022	https://doi.org/10.17592/001.2021110908; https://doi.org/10.17592/001.2021110909	-9999	Coherent; Incoherent	168.7	POL179; VHF179	179

NIPR_2018_JARE60_GRN_BM3	Dome Fuji (JARE60)	Japanese Antarctic Research Expedition; National Institute of Polar Research	https://doi.org/10.5194/tc-16-2967-2022	http://doi.org/10.17592/001.2021110910	-9999	Incoherent	168.7	VHF179	179
KOPRI_2017_KRT1_AIR_BM3	David Glacier (KRT1)	Korea Polar Research Institute	https://doi.org/10.5194/tc-14-2217-2020	https://doi.org/10.5281/zenodo.3778452	0	2-D Synthetic Aperture Radar focusing	168.42	MARFA (UTIG)	60
KOPRI_2018_KRT2_AIR_BM3	David Glacier (KRT2)	Korea Polar Research Institute	https://doi.org/10.5194/tc-14-2217-2020	https://doi.org/10.5281/zenodo.3778452	0	2-D Synthetic Aperture Radar focusing	168.42	MARFA (UTIG)	60
NASA_2013_ICEBRIDGE_AIR_BM3	NASA Operation IceBridge	Center for Remote Sensing of Ice Sheets	https://doi.org/10.1029/2020RG000712	https://data.cresis.ku.edu/	0	2-D Synthetic Aperture Radar focused	169	MCoRDS V3	180-210
NASA_2014_ICEBRIDGE_AIR_BM3	NASA Operation IceBridge	Center for Remote Sensing of Ice Sheets	https://doi.org/10.1029/2020RG000712	https://data.cresis.ku.edu/	0	2-D Synthetic Aperture Radar focused	169	MCoRDS V2	165-215
NASA_2016_ICEBRIDGE_AIR_BM3	NASA Operation IceBridge	Center for Remote Sensing of Ice Sheets	https://doi.org/10.1029/2020RG000712	https://data.cresis.ku.edu/	0	2-D Synthetic Aperture Radar focused	169	MCoRDS V2	165-215
NASA_2017_ICEBRIDGE_AIR_BM3	NASA Operation IceBridge	Center for Remote Sensing of Ice Sheets	https://doi.org/10.1029/2020RG000712	https://data.cresis.ku.edu/	0	2-D Synthetic Aperture Radar focused	169	MCoRDS V3; MCoRDS v6	180-210; 150-450
NASA_2018_ICEBRIDGE_AIR_BM3	NASA Operation IceBridge	Center for Remote Sensing of Ice Sheets	https://doi.org/10.1029/2020RG000712	https://data.cresis.ku.edu/	0	2-D Synthetic Aperture Radar focused	169	MCoRDS V2	165-215
NASA_2019_ICEBRIDGE_AIR_BM3	NASA Operation IceBridge	Center for Remote Sensing of Ice Sheets	https://doi.org/10.1029/2020RG000712	https://data.cresis.ku.edu/	0	2-D Synthetic Aperture Radar focused	169	MCoRDS V7	236-254
NPI_2012_ICERISES_GRN_BM3	Dronning Maud Land ice rises	Norwegian Polar Institute	https://doi.org/10.5194/tc-11-2883-2017	https://doi.org/10.21334/npolar.2019.50edbcc2	5	Incoherent	169	NPI radar	2
NPI_2015_POLARGAP_AIR_BM3	Recovery Subglacial Lakes (PolarGAP)	Norwegian Polar Institute	https://doi.org/10.1029/2018JF004799	https://doi.org/10.21334/npolar.2019.ae99f750	10	2-D Synthetic Aperture Radar	168.5	PASIN (BAS)	150
NPI_2016_MADICE_GRN_BM3	Dronning Maud Land (MADICE)	Norwegian Polar Institute	https://doi.org/10.5194/tc-13-2579-2019	https://doi.org/10.21334/npolar.2020.9ca8826d	2	Incoherent	168	NPI radar	5
PRIC_2015_CHA1_AIR_BM3	Princess Elizabeth Land (CHA1)	Polar Research Institute of China	https://doi.org/10.5194/essd-12-2765-2020	https://doi.org/10.5281/zenodo.4023393	0	2-D Synthetic Aperture Radar focused	168	HiCARS (UTIG)	60
PRIC_2016_CHA2_AIR_BM3	Princess Elizabeth Land (CHA2)	Polar Research Institute of China	https://doi.org/10.5194/essd-12-2765-2020	https://doi.org/10.5281/zenodo.4023393	0	2-D Synthetic Aperture Radar focused	168	HiCARS (UTIG)	60

PRIC_2017_CHA3_AIR_BM3	Princess Elizabeth Land (CHA3)	Polar Research Institute of China	https://doi.org/10.5194/essd-12-2765-2020	https://doi.org/10.5281/zenodo.4023393	0	Coherent and incoherent stacking	168	HiCARS (UTIG)	60
PRIC_2018_CHA4_AIR_BM3	Princess Elizabeth Land (CHA4)	Polar Research Institute of China	https://doi.org/10.5194/essd-12-2765-2020	https://doi.org/10.5281/zenodo.4023393	0	Coherent and incoherent stacking	168	HiCARS (UTIG)	60
RNRF_1971_Lambert-Amery_SEI_BM3	Lambert Ice Shelf; Amery Ice Shelf	Polar Marine Geosurvey Expedition	https://doi.org/10.31857/S2076673421040110	-9999	-9999	-9999	-9999	seismic	-9999
RNRF_1975_Lazarev_SEI_BM3	Lazarev Ice Shelf	Polar Marine Geosurvey Expedition	https://doi.org/10.31857/S2076673421040110	-9999	-9999	-9999	-9999	seismic	-9999
RNRF_1975_Filchner-Ronne_SEI_BM3	Filchner Ronne Ice Shelf	Polar Marine Geosurvey Expedition	https://doi.org/10.31857/S2076673421040110	-9999	-9999	-9999	-9999	seismic	-9999
RNRF_2003_AMSap5_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2004_AMSap5_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2004_Mirny-Vostok_AIR_BM3	Mirny Station; Vostok Subglacial Lake	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2005_AMSap5_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2006_RAEap5_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2006_Komsom-Vostok_AIR_BM3	Komsomolskaya Station; Vostok Subglacial Lake	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2007_AMSap5_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2008_AMSap5_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2009_RAEap5_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2010_RAE_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2011_RAE_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2013_RAE_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2014_RAE_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2015_RAE_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60

RNRF_2016_RAE_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2017_RAE_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2018_RAE_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
RNRF_2019_RAE_AIR_BM3	Princess Elizabeth Land	Polar Marine Geosurvey Expedition	https://doi.org/10.1017/aog.2020.4	-9999	0	Incoherent	168	MPI-60	60
STANFORD_1971_SPRI-NSF-TUD_AIR_BM3	Antarctic-wide (SPRI-NSF-TUD surveys)	Stanford University	https://doi.org/10.1073/pnas.1821646116	https://doi.org/10.25740/ykq4-9345	-9999	-9999	168.5	SPRI/NSF/TUD radar	60; 300
ULB_2012_BEWISE_GRN_BM3	Dronning Maud Land ice rises (BeWise)	Université Libre de Bruxelles	https://doi.org/10.1017/jog.2016.7	https://doi.pangea.de/10.1594/PANGAEA.905997	6.5	Incoherent	168	NPI radar	10
ULB_2012_ICECON_GRN_BM3	Dronning Maud Land ice rises (IceCon)	Université Libre de Bruxelles	https://doi.org/10.1002/2014JF003246	https://doi.org/10.1594/PANGAEA.905315	8.8	Incoherent	168	NPI radar	2
UTIG_2009_Darwin-Hatherton_AIR_BM3	David and Hatherton glacier system	University of Texas Institute for Geophysics	http://doi.org/10.1017/jog.2017.60	https://doi.org/10.15784/601605	0	pik1 (short coherent)	168.4	HiCARS	60
UTIG_2010_ICECAP_AIR_BM3	Antarctic-wide (ICECAP)	University of Texas Institute for Geophysics	https://doi.org/10.1038/nature10114	https://doi.org/10.5067/W2KXX0MYNJ9G	0	pik1 (short coherent)	168.4	HiCARS	60
UTIG_2013_GIMBLE_AIR_BM3	Marie Byrd Land (GIMBLE)	University of Texas Institute for Geophysics	https://doi.org/10.1038/ngeo1992	https://doi.org/10.15784/601001	0	2-D Synthetic Aperture Radar focused	168.4	HiCARS	60
UTIG_2015_EAGLE_AIR_BM3	East Antarctic coastline (EAGLE)	University of Texas Institute for Geophysics	https://doi.org/10.1098/rsta.2014.0297	https://doi.org/10.26179/5bcfffdabcf92	0	pik1 (short coherent)	168.4	MARFA	60
UTIG_2016_OLDICE_AIR_BM3	Dome C	University of Texas Institute for Geophysics	https://doi.org/10.1098/rsta.2014.0297	https://doi.org/10.15784/601355	0	2-D Synthetic Aperture Radar focused	168.4	MARFA	60
UWASHINGTON_2018_South-Pole-Lake_GRN_BM3	South Pole	University of Washington	https://doi.org/10.1017/aog.2020.32	https://hdl.handle.net/1773/45293	-9999	2-D migration	169	University of Washington radar	3