British Antarctic Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

AIR OPERATIONS PLANNING MAP SERIES
MAP 01: Graham Land

Edition 7, August 2025

Scale 1: 1 000 000, Projection: Polar Stereographic

Spheroid: WGS84 Latitude of true scale: 71°S

Contour (interval 1000 ft)	● All year scientific station	Coastline
• *2610* Estimated spot height (feet)	• Summer only station	Lake
• *10444* Highest point on map (feet) NOT A SAFETY ALTITUDE	■ Camp/refuge	Rock outcrop
	× Operations feature	Ice shelf
	✈ Airfield	ASMA
		▲129 ASPA (with number) or bird colony
		• Bird colony

Guidelines for the Operation of Aircraft near Concentrations of Birds

The map shows the location of the main breeding concentrations of penguins and petrels in Palmer Land, Southern Graham Land and Alexander Island.

Low flying and unnecessary landings increase the risk of disturbance to wildlife, and in some areas will put your aircraft and crew at risk from bird strike. To minimize the risk to both wildlife and aircraft, follow the guidelines below as closely as your operational requirements allow:

Penguin, giant petrel and other bird colonies are not to be overflown below 2000 ft (~610 m) above ground level, except when operationally necessary.

Landings within 1/2 nautical miles (~930 m) of penguin, giant petrel or other bird colonies should be avoided wherever possible.

Never hover or make repeated passes over wildlife concentrations or fly lower than necessary.

Maintain a vertical separation distance of 2000 ft (~610 m) AGL and a horizontal separation of ¼ nautical mile (~460 m) from the coastline wherever possible.

Cross coasts at right angles and above 2000 ft (~610 m) AGL where possible.

For further information regarding aircraft operations near concentrations of birds see the Antarctic Flight Information Manual (COMNAP) https://www.comnap.aq/air-operations

Warnings:

This map is not an air navigation chart and it is not intended for in-flight navigation.
Contours and spot heights are in feet.
Vertical Datum – EGM08. Heights are geoidal/orthometric (mean sea level).

Data Sources:

Operations Data: COMNAP Antarctic Facilities List (November 2024).

Spot Heights - extracted from REMA v2 2m DEM and generated programatically.

Contours and Hillshade - derived from Polar Geospatial Center REMA v2 100m mosaic. Where there were holes in this dataset, these have been filled with Copernicus GLO-90 Digital Elevation Model, downsampled to 100m. This dataset was smoothed for the purposes of this map.
Howat, Ian, et al., 2022, "The Reference Elevation Model of Antarctica – Mosaics, Version 2", https://doi.org/10.7910/DVN/EBW8UC, Harvard Dataverse, V1, accessed July 2025.
European Space Agency (2024). Copernicus Global Digital Elevation Model. Distributed by OpenTopography. https://doi.org/10.5069/G9028PQB. Accessed 2025-09-22

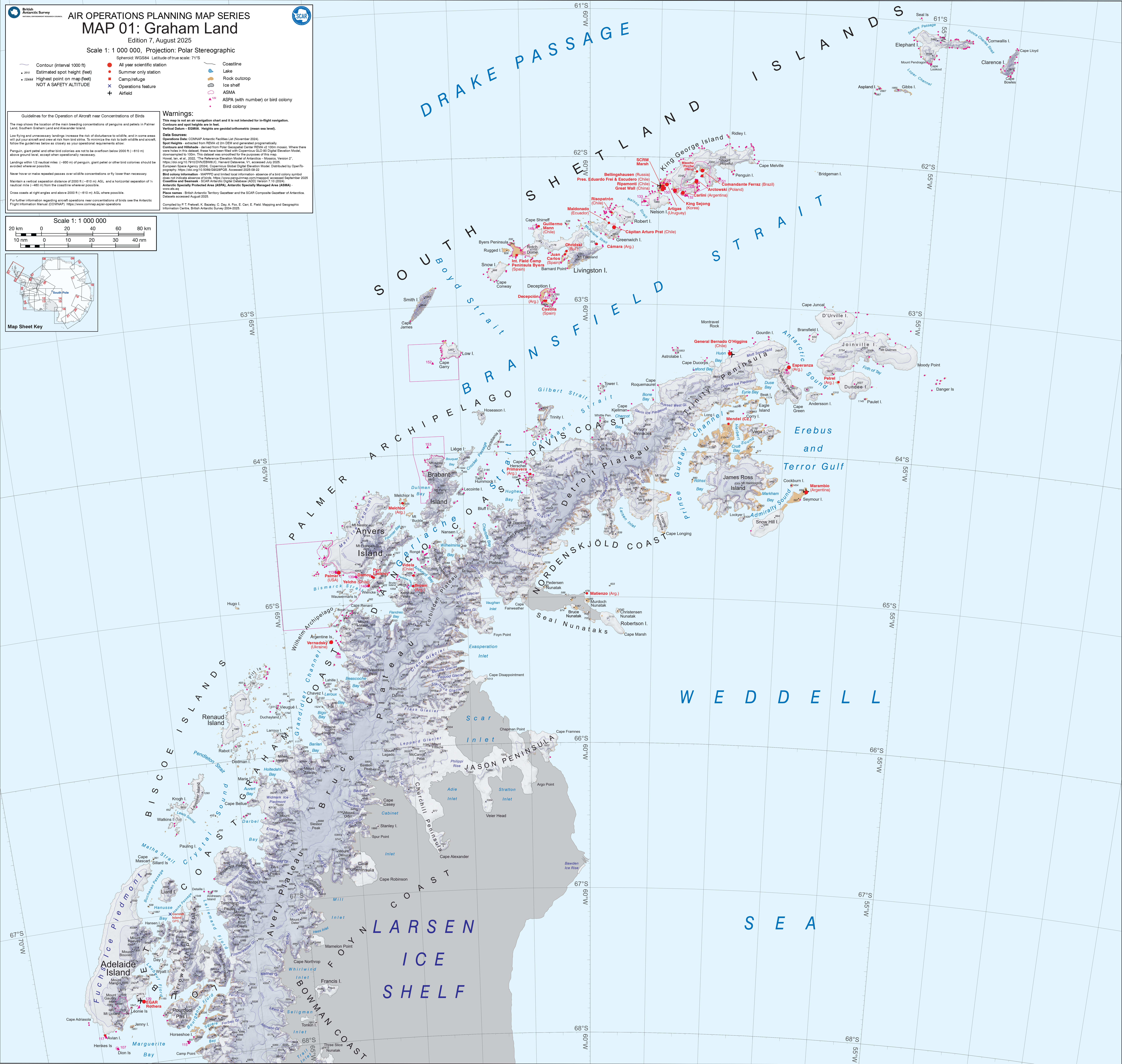
Bird colony information - MAPPPD and limited local information- absence of a bird colony symbol does not indicate absence of birds. https://www.penguinmap.com/mapppd/ accessed September 2025

Coastline and Seamask - SCAR Antarctic Digital Database (ADD) Version 7.10 (2024).

Antarctic Specially Protected Area (ASPA), Antarctic Specially Managed Area (ASMA) - www.ats.aq

Place names - British Antarctic Territory Gazetteer and the SCAR Composite Gazetteer of Antarctica. Datasets accessed August 2025.

Compiled by P. T. Fretwell, K. Bazeley, C. Day, A. Fox, E. Carr, E. Field. Mapping and Geographic Information Centre, British Antarctic Survey 2004-2025.


Scale 1: 1 000 000
20 km 0 20 40 60 80 km
10 nm 0 10 20 30 40 nm
Map Sheet Key
South Pole
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21
DRAKE PASSAGE
SOUTH SHETLAND ISLANDS
BRANSFIELD STRAIT
PALMER ARCHIPELAGO
WEDDELL SEA
LARSEN ICE SHELF
Erebus and Terror Gulf
61°S 62°S 63°S 64°S 65°S 66°S 67°S 68°S
55°W 60°W 65°W 70°W
Seal Is
Sealers Passage
Elephant I.
Mount Pendragon
Cape Lookout
Loper Channel
Prince Charles Strait
Cornwallis I.
Cape Lloyd
Clarence I.
Cape Bowles
Aspland I.
Gibbs I.
Ridley I.
King George Island
Mount Hopeful
Cape Melville
Penguin I.
Bridgeman I.
SCRM Marsh
Macchu Picchu (Peru)
Bellingshausen (Russia)
Pres. Eduardo Frei & Escudero (Chile)
Ripamonti (Chile)
Great Wall (China)
Comandante Ferraz (Brazil)
Arctowski (Poland)
Carlini (Argentina)
King Sejong (Korea)
Artigas (Uruguay)
Nelson I.
Nelson Strait
Risopatrón (Chile)
Maldonado (Ecuador)
Robert I.
Cápitan Arturo Prat (Chile)
Greenwich I.
Cámara (Arg.)
McFarlane Strait
Cape Shirreff
Guillermo Mann (Chile)
Byers Peninsula
Rugged I.
Rotch Dome
Int. Field Camp Peninsula Byers (Spain)
Ohridski (Bul.)
Juan Carlos (Spain)
Mt Friesland
Barnard Point
Livingston I.
Snow I.
Cape Conway
Boyd Strait
Smith I.
Cape James
Deception I.
Decepción (Arg.)
Castilla (Spain)
Low I.
Cape Garry
Montravel Rock
Cape Juncal
D'Urville I.
Bransfield I.
Gourdin I.
General Bernado O'Higgins (Chile)
Astrolabe I.
Huon Bay
Cape Ducorps
Lafond Bay
Mott Snowfield
Trinity Peninsula
Antarctic Sound
Esperanza (Arg.)
Tabarin Peninsula
Joinville I.
Mt Quilmes
Firth of Tay
Moody Point
Petrel (Arg.)
Dundee I.
Danger Is
Paulet I.
Andersson I.
Cape Green
Duse Bay
Eyrie Bay
Beak I.
Eagle Island
Corry I.
Long I.
Mendel (Cz.)
Vega I.
Herbert Sound
Croft Bay
Tower I.
Cape Roquemaurel
Bone Bay
Cugnot Ice Piedmont
Russell West Gl.
Victory Gl.
Gilbert Strait
Hoseason I.
Trinity I.
Cape Kjellman
Whittle Pen.
Charcot Bay
Gavin Ice Piedmont
Ivory Pinnacles
Orléans Strait
DAVIS COAST
Christiania Is
Liége I.
Bouquet Bay
Crocker Passage
Brabant Island
Mt Hunter
Mt Parry
Dallmann Bay
Cape Herschel
Primavera (Arg.)
Two Hummock I.
Lecointe I.
Hughes Bay
Cayley Glacier
Wright Ice Piedmont
Mt Bris
Detroit Plateau
Gustav Channel
Mt Wild
James Ross Island
Mt Haddington
Röhss Bay
Markham Bay
Admiralty Sound
Cockburn I.
Marambio (Argentina)
Seymour I.
Lockyer I.
Snow Hill I.
Sjögren Gl.
Edgeworth Gl.
Eliason Gl.
Sobral Peninsula
Larsen Inlet
Mt Tucker
Longing Peninsula
Prince Gustav Channel
Cape Longing
NORDENSKJÖLD COAST
Melchior Is
Melchior (Arg.)
Bluff I.
Mt Buckle
Nansen I.
Mt Zeppelin
Herbert Plateau
Charlotte Bay
Drygalski Glacier
Foster Plateau
Wilhelmina Bay
Arctowski Peninsula
Mt Walker
Hektoria Gl.
Anvers Island
Mt Nestor
Marr Ice Piedmont
Mt Français
Fournier Bay
Gerlache Strait
Rongé I.
Videla (Chile)
Andvord Bay
Paradise Harbor
Brown (Arg.)
Palmer (USA)
Damoy
Port Lockroy
Yelcho (Chile)
Bryde Island
Wiencke I.
Bismarck Strait
Wauwermans Is
Kershaw Peaks
DANCO COAST
Forbidden Plateau
Green Glacier
Evans Gl.
Vaughan Inlet
Cape Fairweather
Pedersen Nunatak
Matienzo (Arg.)
Murdoch Nunatak
Bruce Nunatak
Christensen Nunatak
Robertson I.
Cape Marsh
Seal Nunataks
Foyn Point
Hugo I.
Cape Renard
Booth I.
Flandres Bay
Mount Matin
Jorum Gl.
Wilhelm Archipelago
Argentine Is
Vernadsky (Ukraine)
Trooz Glacier
Exasperation Inlet
Crane Glacier
Valentine Peak
Melville Glacier
Pequod Glacier
Starbuck Glacier
Cape Disappointment
Beascoche Bay
Lahille I.
Chavez I.
Leroux Bay
Roundel Dome
Flask Glacier
Scar Inlet
Pitt Is
Renaud Island
Vieugué I.
Duchaylard I.
Larrouy I.
Bigo Bay
Fontaine Heights
Grandidier Channel
Barilari Bay
Leppard Glacier
Mount Fritsche
Chapman Point
Cape Framnes
JASON PENINSULA
Mount Lagado
McCarroll Peak
Philippi Rise
Rabot I.
Dodman I.
Miller Heights
Pendleton Strait
Holtedahl Bay
Mount Zdarsky
Bastion Peak
Eden Gl.
Attlee Gl.
Churchill Peninsula
Adie Inlet
Stratton Inlet
Veier Head
Argo Point
BISCOE ISLANDS
Marie I.
Auvert Bay
Hugi Glacier
Widmark Ice Piedmont
Cape Bellue
Krogh I.
Lavoisier Island
Watkins I.
Lewis Sound
Darbel Bay
Mount Lyttleton
Erskine Gl.
Slessor Peak
Bevin Gl.
Cape Casey
Anderson Gl.
Mount Odin
Cabinet Inlet
Slepnir Gl.
Stanley I.
Spur Point
Bruce Plateau
GRAHAM COAST
Crystal Sound
Pauling I.
Matha Strait
Cape Mascart
Sillard Is
Protector Heights
McCance Gl.
Wilkinson Gl.
Drummond Gl.
Zilva Peaks
Hodge Peak
Gould Gl.
Mount Denuce
Cole Peninsula
Cape Robinson
Cape Alexander
Bawden Ice Rise
OSCAR II COAST
Buchanan Passage
Liard I.
Detaille I.
Andresen Island
Hanusse Bay
Isacke Passage
Cornish Island GPS
Lallemand Fjord
Murphy Glacier
Tammann Peaks
Mount Deeley
Kinzl Crests
Southard Promontory
Breitfuss Gl.
Mill Inlet
Fricker Gl.
Mount Dater
Hess Inlet
Avery Plateau
Hansen I.
Gravier Peaks
Mt Lagally
Pernodsmith Peninsula
Boyle Mountains
Finsterwalder Gl.
Flint Gl.
Demorest Gl.
Mamelon Point
FOYN COAST
Cape Northrop
Whirlwind Inlet
Matthes Gl.
Francis I.
Fuchs Ice Piedmont
Adelaide Island
Mount Reeves
Mount Bouvier
Mount Mangin
Mount Gaudry
Mt Liotard
Day I.
Wyatt I.
Laubeuf Fjord
Arrowsmith Peninsula
LOUBET COAST
Bourgeois Fjord
Pourquoi Pas I.
Peruiz Gl.
Lewis Gl.
Seligman Inlet
Tonkin I.
BOWMAN COAST
EGAR Rothera
Léonie Is
Cape Adriasola
Jenny I.
Avian I.
Henkes Is
Dion Is
Marguerite Bay
Horseshoe I.
Square Bay
Forbes Gl.
Ahlmann Gl.
Camp Point
Three Slice Nunatak
Trail Inlet