

e-Atlas Metadata Template

The template provided below is a summary of the key information required by the e-Atlas in order for the ISO19115 MCP standard records to be created. To create a new meta-data record replacing the Description field with the appropriate content and remove optional fields that are unused. Non-optional fields correspond to the ANZLIC Minimum fields.

Field	Description
Title	Revision of the Kerguelen Plateau bathymetric grid
Metadata Identifier	200ABA6B-6FB6-443E-B84B-86B0BBDB53AC
Parent Record Identifier	NA
Topic Category	ELEVATION: height above or below sea level. GEOSCIENTIFIC INFORMATION: earth sciences. OCEANS: features and characteristics of salt water bodies excluding inland waters.
Keywords	bathymetry, soundings, echo sounders, multibeam sonar, Southern Ocean, Heard Island
Key Dates	CREATED: V1 - 2 Nov 2010 UPDATED: V2 - 28 Mar 2019
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Abstract	The existing regional bathymetric grid of the Kerguelen Plateau, south-west Indian Ocean, was updated using new singlebeam echosounder data from commercial fishing and research voyages, and some new

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	<p>multibeam swath bathymetry data. Source bathymetry data varies from International Hydrographic Organisation (IHO) S44 Order 1a to 2. The source data were subjected to area-based editing to remove data spikes, then combined with the previous Sexton (2005) grid to produce a new grid with a resolution of 0.001-arcdegree. Satellite-derived datasets were used to provide island topography and to fill in areas of no data. The new grid improves the resolution of morphological features observed in earlier grids, including submarine volcanic hills on the top of the Kerguelen Plateau and a complex of submarine channels draining the southern flank of the bank on which Heard Island sits.</p>
Purpose	<p>The Heard and McDonald Islands are situated on the Kerguelen Plateau and lie within Australia's marine jurisdiction. The seafloor area in the vicinity of the islands is currently targeted by fishers licenced under the Convention on the Conservation of Antarctic Marine Living Resources (CCAMLR). Geoscience Australia (GA) and Australian Antarctic Division (AAD) scientists have a need to revise the Kerguelen Plateau DEM to better define the seabed geomorphology and depth contours to assist marine environmental management of this sensitive area.</p>
Data limitations* (optional)	<p>AUSTRALIAN HYDROGRAPHIC SERVICE NOTICE: Not to be used for navigation. Certain material in this product are reproduced under licence by permission of The Australian Hydrographic Service © Commonwealth of Australia 2010. All rights reserved. This information may not be copied, reproduced, translated, or reduced to any electronic medium or machine readable form, in whole or part, without the prior written consent of the Australian Hydrographic Service.</p> <p>GEOSCIENCE AUSTRALIA NOTICE: This kerg100 DEM incorporates data which are © Commonwealth of Australia (Geoscience Australia) 2010. This bathymetry grid is not suitable for use as an aid to navigation, or to replace any products produced by the Australian Hydrographic Service. Geoscience Australia produces the bathymetry grid of the Kerguelen Plateau specifically to provide regional and local-scale context for scientific and industry projects, and for public education.</p> <p>SHOM NOTICE: No official hydrographic office has verified the information contained in this document and may not be held liable for the reliability of its reproduction or any subsequent amendment. The possession of this document does not constitute an exemption from the obligation to use the appropriate naval documents provided for by national and international regulations.</p> <p>SHOM STATEMENT OF INTELLECTUAL PROPERTY RIGHTS: © SHOM 2010</p>

Field	Description
	<p>- Work carried out using data disclosed by the French Naval Hydrographic and Oceanographic Office (contract n° 168/2010) - www.shom.fr. This Office cannot be held liable for the results and the use that is made of them. All rights reserved except for teaching and research.</p> <p>USE CONSTRAINTS: Users of the kerg100 grid must include the following reference in any subsequent publications using this dataset: Beaman, R.J., O'Brien, P.E., 2011. Kerguelen Plateau Bathymetric Grid, November 2010. Record 2011/22, Geoscience Australia, Canberra, Australia, pp. 18. Available at: https://www.deeppreef.org/publications/reports/99-kergdem.html</p>
Preview Image * (optional)	NA
Data lineage (optional)	See accompanying report
Data file description* (optional)	FILE: kerg100 PROJECTION: Geographic Latitude/Longitude DATUM: WGS84 SCALE: 0.001*0.001 arc-degree (about 100 m) grid cells STORED DATA FORMAT: ESRI raster grid AVAILABLE DATA FORMATS: GMT/netCDF (CF-1.0) grid and Fledermaus (V7.7.7) SD grid
Spatial Extent	NORTH LATITUDE: -48.0 SOUTH LATITUDE: -56.0 WEST LONGITUDE: 68.0 EAST LONGITUDE: 80.0 HORIZONTAL DATUM: WGS84 ^a ESRI raster Top -48.0005 ESRI raster Left 67.9995832607 ESRI raster Right 79.9995832607 ESRI raster Bottom -56.0005 ESRI raster Columns 12000 ESRI raster Rows 8000 ESRI raster Cell Size X, Y 0.001, 0.001 ^a Cell-registered, showing coordinates for edge of cells
Temporal Extent	NA
Vertical extent (optional)	MINIMUM HEIGHT: -4524 m MAXIMUM HEIGHT: 2679 m VERTICAL DATUM: approximates mean sea level (MSL)
Maintenance and Update	STATUS: Ongoing

Field	Description
Frequency (optional)	FREQUENCY: As required
Resource Constraints and licensing	COPYRIGHT: The content on this website is released under the Creative Commons Attribution 4.0 International Licence: https://creativecommons.org/licenses/by/4.0/ ATTRIBUTION: "© www.deepreef.org"
Processing*	See accompanying publication at: http://www.deepreef.org/publications/reports/99-kerdem.html
References	REFERENCE: Sexton, M., 2005. The Construction of a Bathymetric Grid for the Heard Island - Kerguelen Plateau Region. Record 2005/xx, Geoscience Australia, Canberra, Australia, pp. 26. REFERENCE: Beaman, R.J., O'Brien, P.E., 2011. Kerguelen Plateau Bathymetric Grid, November 2010. Record 2011/22, Geoscience Australia, Canberra, Australia, pp. 18. Available at: http://www.deepreef.org/publications/reports/99-kerdem.html
Credits and funding*	CREDITS: Michael Andrew (Australian Hydrographic Service) Mike Sexton (Geoscience Australia) Phil O'Brien (Geoscience Australia) Robert Parums (Geoscience Australia) Michele Spinoccia (Geoscience Australia) Henk Brolsma (Australian Antarctic Division) Christelle Maillot-Dupas (SHOM) FUNDING: Geoscience Australia
Supplemental information	NA
Online resources	The data may be downloaded from the Deepreef Explorer site: https://www.deepreef.org/bathymetry/98-kerdem-bathy.html , and within the Geoscience Australia website: https://www.ga.gov.au/products/servlet/controller?event=GEOCAT_DETAILS&catno=71552