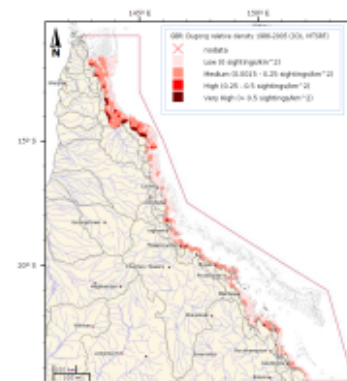


Great Barrier Reef dugong distribution and relative density - Spatial model of aerial surveys from 1986 - 2005 (MTRSF, JCU)



[Metadata](#) | [Metadata \(XML\)](#)

| [Visualization service URL \(WMS\) \(WMS layer of this dataset\)](#) |

Title	Great Barrier Reef dugong distribution and relative density - Spatial model of aerial surveys from 1986 - 2005 (MTRSF, JCU)
Date	2007-03-05T11:50:00
Date type	Publication
Abstract	<p>This dataset shows a spatial model of the distribution and relative density of dugongs (Dugong dugong) in the Torres Strait region based on an aggregate of 19 years (1986, 1987, 1992, 1994, 1999, and 2005) of systematic aerial surveys. For more information on the methods used in the creation of this dataset see Grech, A., and Marsh, H. (2007) - Prioritising areas for dugong conservation in a marine protected area using a spatially explicit population model, Applied GIS, 3(2), 1-14.</p> <p>All surveys were conducted in late spring or early summer when weather and sea states provide optimum survey conditions.</p> <p>This data presents the results of a model of dugong distribution and abundance, based on data collected from dugong aerial surveys, in conjunction with geostatistical techniques including universal kriging (Grech and Marsh 2007). After completing the model, frequency analyses were conducted to categorise relative dugong density and distribution to identify areas of low, medium or high conservation value.</p> <p>The modelled abundance and distribution show the relative density of dugongs (areas where there are more or less dugongs) and NOT the absolute dugong density as corrections for perception bias (animals that are available to, but missed by, observers) and availability bias (animals that are unavailable to observers because of water turbidity) can only be applied at the spatial scale of entire surveys (thousands of square kilometres), making them inappropriate for the spatial scale for this dataset. Nonetheless, the relative densities among regions should be approximately comparable (H. Marsh, personal communication).</p> <p>This dataset is being updated as part of Project 1.2 of the National Environmental Research Program.</p> <p>This dataset is an estimate of relative dugong density (number / km²) and the conservation value with a 3-point rating (high, medium, low).</p> <p>Note: More recent surveys were completed under the NERP program.</p>

Metadata language eng

Character set UTF8

Hierarchy level	Dataset
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OnLine resource

Linkage	https://eatlas.org.au/data/uuid/c4d8abcc-650c-46de-ac06-e91985b368e7
Protocol	WWW:LINK-1.0-http--metadata-URL
Linkage	http://eprints.jcu.edu.au/2678/
Protocol	WWW:LINK-1.0-http--link
Linkage	https://maps.eatlas.org.au/maps/wms
Protocol	OGC:WMS-1.1.1-http-get-map
Linkage	https://eatlas.org.au/data/uuid/71127e4d-9f14-4c57-9845-1dce0b541d8d
Protocol	WWW:LINK-1.0-http--related

Topic category	Biota
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Keyword

Keyword	Oceans Marine Biology Marine Mammals
Type	Theme
Keyword	marine
Type	Theme

Extent

Geographic bounding box

West bound	142.83
East bound	152.23
South bound	-24.5
North bound	-11.5

Lineage

Statement	<p>- Grech. A., and Marsh. H. (2007) - Prioritising areas for dugong conservation in a marine protected area using a spatially explicit population model, <i>Applied GIS</i>, 3(2), 1-14</p> <p>- Marsh H., and Saalfeld, W.K. (1989). Distribution and abundance of dugongs in the Northern Great Barrier Reef Marine Park. <i>Australian Wildlife Research</i> 16:429-440.</p> <p>- Marsh H., and Saalfeld, W.K. (1990). The distribution and abundance of dugongs in the Great Barrier Reef Marine Park south of Cape Bedford. <i>Australian Wildlife Research</i> 17:511-524</p> <p>- Marsh H., and Sinclair D.F. (1989). Correcting for visibility bias in strip transect aerial surveys of aquatic fauna. <i>Journal of Wildlife Management</i>. 53(4): 1017-1024</p>
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Resource constraints

Use limitation	Copyright remains with the data owner(s).
File identifier	c4d8abcc-650c-46de-ac06-e91985b368e7
Metadata language	eng
Character set	UTF8

Metadata author

Individual name	Lawrey, Eric, Dr.
Organisation name	Australian Institute of Marine Science (AIMS)
Role	metadataContact

