

Australian Marine Video and Imagery Collection

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Version

1.0.0

Program

Marine

Resource type

Baseline

Published Date

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View the [original metadata page](#) for the most up-to-date information on this product.

Basics

Background

Unlike land-based environments, relatively little is known about what the seafloor around Australia looks like or has living on it.

Being able to observe the seafloor can allow us to directly observe coastal and deep environments and identify what habitats occur there and the organisms that live there.

What this product offers

Geoscience Australia undertakes a range of marine surveys to improve the understanding and the management of Australia's marine environments. One component of the research involves the use a towed video system to directly observe coastal and deep sea environments. In many areas, particularly in deep offshore sites, these devices provide the first images of the seafloor.

This data package includes towed video and still images acquired on GA surveys from 2007 onwards.

Access

Data access

Link to data	THREDDS
eCat record	81948
CMI RESTful node ID	198
Security classification	Unclassified
Update frequency	asNeeded

Details

Technical information

Various camera systems have been used to collect both video and still imagery depending on the vessel:

- Autonomous underwater vehicles (AUVs) have been used in some surveys to collect still imagery including of continuous mosaics.
- Remotely operated underwater vehicles (ROVs) have been used to collect imagery of targeted areas.
- GoPros have also been attached to various sampling gear, including grabs, towed systems and AUVs, to obtain imagery.

The most common platform used are towed systems. These use a winch on the ship to lower the video system to 1-2 metres above the seafloor, with a tow speed of 1-2 knots. This speed and altitude allows the video camera to record sharp images of the seafloor while covering distances of up to 1-2 km. Video footage is sent up a cable to the ship so it can be viewed in real time. Georeferencing of seafloor imagery is challenging. Details of navigation, where available, are provided with each record. The hours of footage collected on the seafloor provide a wealth of information about the geological features, habitats and life forms occurring throughout Australia's marine jurisdiction.

This data package includes towed video and still images acquired on GA surveys from 2007 onwards. Between 2007 and

2017, this included 34 marine surveys (including Antarctic waters):

GA0322_Bonaparte2009_SOL4934, eCat ID:70206, [Metadata link](#)

GA0308_Carnarvon_SOL4976, eCat ID: 70202, [Metadata link](#)

GA0309_0312_JervisBay2008, eCat ID: 70208, [Metadata link](#)

GA0315_SE_Tasmania, eCat ID: 70203, [Metadata link](#)

GA0325_Bonaparte2010_SOL5117, eCat ID: 70902, [Metadata link](#)

GA0326_JervisBay2009, eCat ID: 70208, [Metadata link](#)

GA0334_VlamingBasin2012, eCat ID: 74276, [Metadata link](#)

GA0335_Petrel2012_SOL5463, eCat ID: 74672, [Metadata link](#)

GA0337_Flinders_Commonwealth_Reserve, eCat ID: 74581, [Metadata link](#)

GA0338_Solitary_Islands, eCat ID: 74582, [Metadata link](#)

GA0339_Oceanic_Shoals_SOL5650, eCat ID: 75879, [Metadata link](#)

GA0340_Browse2013, eCat ID: 77504, [Metadata link](#)

GA0345_Browse_Basin_2014_TAN1411, eCat ID: 82983, [Metadata link](#)

GA0348_Casey_Station_2015, eCat ID: 83876, [Metadata link](#)

GA0350_Gippsland_Env_Monitoring_I, eCat ID: 87846, [Metadata link](#)

GA0353_Gippsland_Env_Monitoring_II, eCat ID: 87847, [Metadata link](#)

GA0355_Gippsland_Env_Monitoring_III, eCat ID: 101460, [Metadata link](#)

GA2436_LordHoweRise_TAN0713, eCat ID: 70204, [Metadata link](#)

GA2461_LordHoweIs2008_SS0608, eCat ID: 70201, [Metadata link](#)

GA2476_WAMargin, eCat ID: 70205, [Metadata link](#)

GA4301_DAVIS_AAS2201, eCat ID: 70441, [Metadata link](#)

GA4330_CEAMARC_200708V3, eCat ID: 70207, [Metadata link](#)

GA4347_MERTZ_201011VMS, eCat ID: 71667, [Metadata link](#)

GA4402_Balls_Pyramid_SS2013v02, eCat ID: 76212, [Metadata link](#)

NBP14-02_Totten_Glacier

GA0357_Davis 2017

IN2017_VO1_Totten Glacier, eCat ID: 116582, [Metadata link](#)

Darwin Harbour 2015

Bynoe Harbour 2016

Darwin Harbour 2013

Lord Howe Rise 2017

GA2408_RowleyShoals2006_SS062006, eCat ID: 116861, [Metadata link](#)

IN2017_VO1_Sabrina_Seafloor, eCat ID: 116582, [Metadata link](#)

Processing

Media

Credits

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