







NORTHERN TERRITORY STORM SURGE MAPPING

DARWIN AREA 10,000 YEAR STORM SURGE INUNDATION for 2100

Estimated HAT Extreme Storm (Highest Surge Zone Astronomical Tide) (10,000 Year ARI)

The technical information forming the basis of this storm surge inundation mapping is contained

1. Darwin Storm Tide Mapping Study - 2006 2. High Resolution Storm Tide and Climate Change Impacts Study - 2010

Using the storm surge levels and estimates of Highest Astronomical Tide (HAT) from the above studies, the inundation and HAT extents for the projected mean sea level in 2100 were developed by GHD Pty Ltd in 2014 based on the latest topographic information (2009 and 2011). This map is produced by the NT Government for the Darwin area based on the storm surge inundation and

The map shows the total storm surge (technical terminology is storm tide) hazard risk due to tropical cyclones in terms of ocean water level comprising the combined effects of astronomical tide plus storm surge plus wave setup for one statistical Average Recurrence Intervals (ARI). It also shows the estimated HAT extent. The "Extreme Storm Surge Zone" shown on the map refers to the extent of inundation for a storm tide event of 10,000 year ARI (with approximately a 0.5% chance of exceedance within any 50 year period). The extent does not include the possible effects of very localised wave runup.

"average" number of years between successive events of the same or greater magnitude. The ARI of a storm tide event gives no indication of when a storm tide of that magnitude may occur.

Highest Astronomical Tide (HAT) is the highest ocean level expected due to any combination of astronomical conditions alone and has an equivalent ARI of approximately 18.6 years. The HAT extent is used in this map as the reference for storm surge inundation. It is based on estimates of HAT levels derived from numerical hydrodynamic modelling that has not been verified by long term insitu measurements

For detailed interpretation of this map and further information contact: Water Resources NT, Department of Land Resource Management 4th Floor Goyder Centre, 25 Chung Wah Terrace, Palmerston, Northern Territory. T: (08) 8999 4455 Email: waterresources@nt.gov.au

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Storm surge reports and maps are available on www.nt.gov.au/floods This map produced **November 2014**, supercedes all previous versions.

GENERAL FEATURES

Local Government Area	
Property / Road Boundaries	
Suburbs / Localities	
Major Road	
Minor Road	
Park / Reserve	
Railway	
Gas pipeline	
Watercourse, Lake or Lagoon	
Mangroves	
Data Source:	

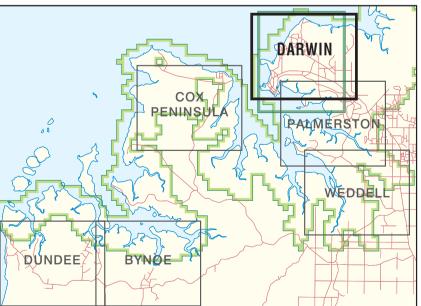
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Northern Territory of Australia.

Black numbered lines are 2500 metre intervals of the Map Grid of Australia (MGA) Zone 52 Transverse Mercator Projection Horizontal Datum: GDA 94

This map was produced on the Geocentric Datum of Australia 1994 (GDA 94)

INDEX TO DARWIN REGION STORM SURGE MAPS



Extent of topographic information 2009

MAP LOCATION



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