NORTHERN TERRITORY STORM SURGE MAPPING

DUNDEE AREA
STORM SURGE
INUNDATION for 2100

Primary Storm	Secondary Storm	Extreme Storm
Surge Zone	Surge Zone	Surge Extent
(100 Year ARI)	(1,000 Year ARI)	(10,000 Year ARI)
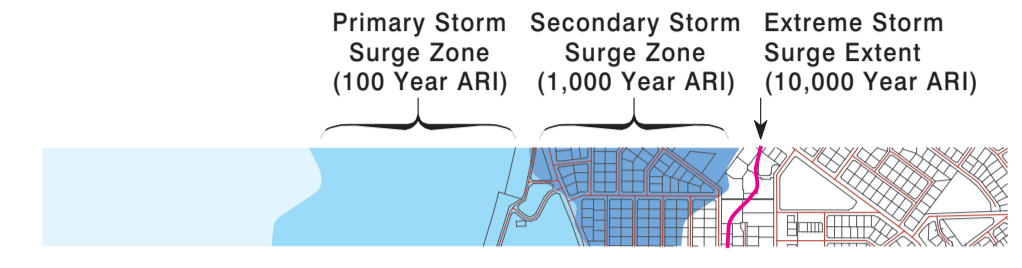
The technical information forming the basis of this storm surge inundation mapping is contained in the following reports prepared for the NT Government by Systems Engineering Australia Pty Ltd (SEA):

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

Using the storm surge levels from the above studies, the inundation extent for the projected mean sea level in 2100 was 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 Dundee area based on the storm surge inundation extent.

The map shows the total storm surge (technical terminology is storm tide) hazard risk due to tropical cyclones in terms of the ocean water level comprising the combined effects of astronomical tide plus storm surge plus wave setup for two statistical Average Recurrence Intervals (ARI). The "Primary Storm Surge Zone" shown on the map refers to the extent of inundation for a storm tide event of 100 year ARI (with approximately a 40% chance of exceedance within any 50 year period). The "Secondary Storm Surge Zone" shown on the map refers to the further extent of inundation for a storm tide event of 1000 year ARI (with approximately a 5% chance of exceedance within any 50 year period). The extents do not include the possible effects of very localised wave runup.

Average Recurrence Interval (ARI) is also called Return Period of the Risk and is defined as the "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.

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
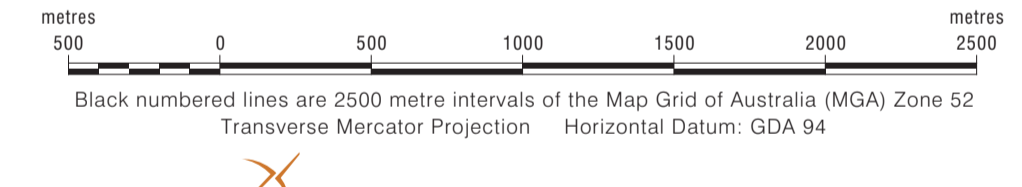PO Box 496, Palmerston, NT. 0831

Storm surge reports and maps are available on www.nt.gov.au/floods
This map produced November 2014, supercedes all previous versions.
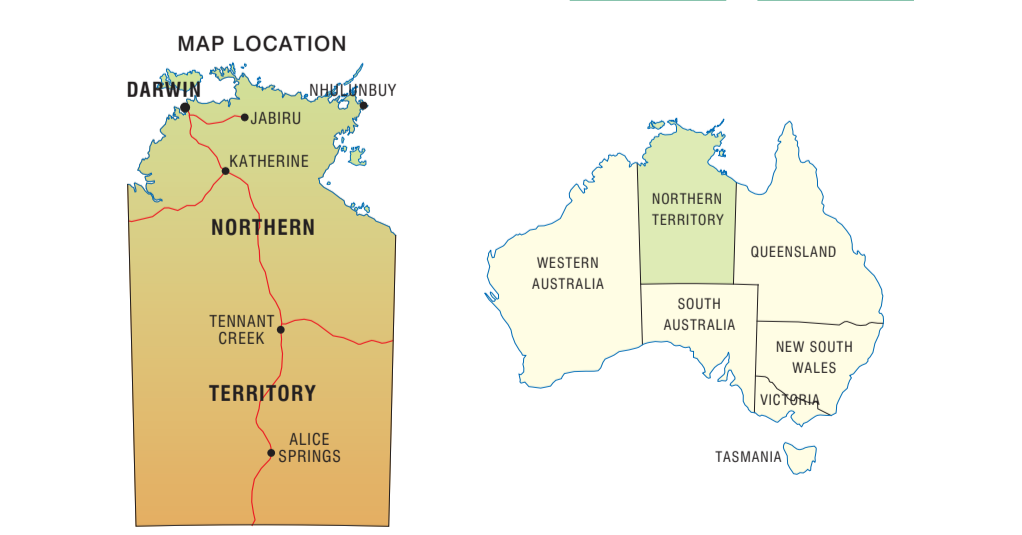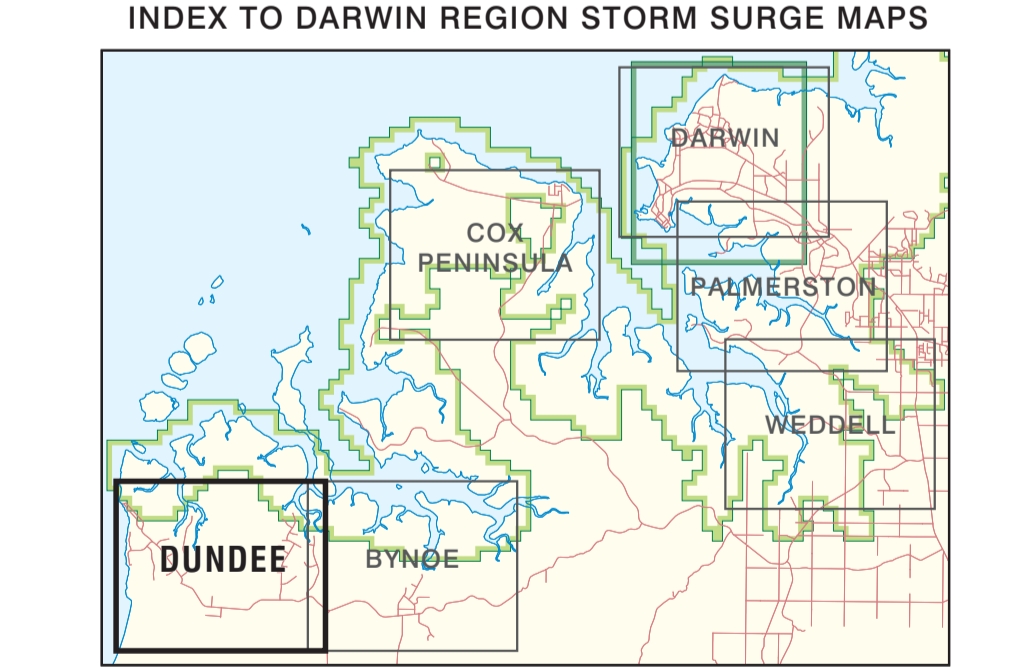The map name has changed from Dundee Area 1 to Dundee Area.

GENERAL FEATURES

Local Government Area	LITCHFIELD
Property / Road Boundaries	
Suburbs / Localities	STUART PARK
Major Road	
Minor Road	
Park / Reserve	
Railway	
Gas pipeline	
Watercourse, Lake or Lagoon	
Mangroves	

Data Source:
Cadastre, road centrelines and administrative information
Northern Territory Department of Lands, Planning and the Environment.

Map prepared by:
Spatial Data and Mapping, Water Resources NT,
Department of Land Resource Management,
Goyder Centre, Chung Wah Terrace, Palmerston,
Northern Territory of Australia.

metres   500   0   500   1000   1500   2000   2500 metres
Black numbered lines are 2500 metre intervals of the Map Grid of Australia (MGA) Zone 52
Transverse Mercator Projection   Horizontal Datum: GDA 94

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

INDEX TO DARWIN REGION STORM SURGE MAPS

DARWIN
COX PENINSULA
PALMERSTON
WEDDELL
DUNDEE
BYNOE

Extent of topographic information 2009 2011

MAP LOCATION

DARWIN
KATHERINE
NORTHERN TERRITORY
TENNANT CREEK
ALICE SPRINGS

WESTERN AUSTRALIA
SOUTH AUSTRALIA
QUEENSLAND
NEW SOUTH WALES
VICTORIA
TASMANIA

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Map labels: DUNDEE FOREST, DUNDEE BEACH, DUNDEE DOWNS, UN-INCORPORATED, MACKESIE ARM, Indian Island Conservation Area, Natural Point, Dundee Beach Boat Ramp, Stingray Head