Cairns Turtle Rehabilitation centre

"Our Mission is protecting and promoting the conservation of marine turtles"

CAIRNS TURTLE REHABILITATION CENTRE



Cairns Turtle Rehabilitation Centre

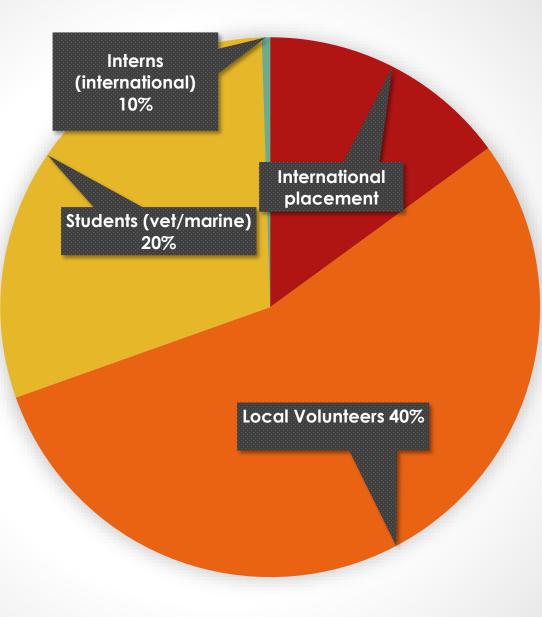
- Non-profit, volunteer & donation based organization Founded by Jennie Gilbert & Paul Barnes in 2000 Rescued over 500 turtles from 4 different species
- Has a current roster of 100 dedicated and amazing volunteers



Located at Fitzroy Island, James Cook University, Cairns Aquarium and satellite centre at Mission Beach

Type of Volunteer	Number	
Local volunteers	600	
International volunteers (agency)	547	
Students (vet/marine)	400	
Interns (international)	15	

Volunteer/Students since 2014



Local volunteers
International volunteers (agency)
Students (vet/marine)
Interns (international)



- Globally there are 7 species of marine turtles, in Australia we are lucky enough to have 6 of the 7
- Sadly all species are on the IUCN (International Union for the Conservation of Nature) red list, classified as vulnerable, endangered or critically endangered.

Raine Is

Southern ⁴ Gulf

> Coral Sea Is Coral Soa Islands

Queensland

Capricorn-Bunker Group

© 2010 Europa Technologies © 2010 MapData Sciences PtyLtd, PSMA

There are 4 genetic stocks in QLD. They move around between good feeding areas. They may be thousands of kms away from where they were born, but will always return to their natal area to lay eggs.

New Caledonia



Vanuatu

Pointer 16°53'41.50" S 152°00'52.68" E

Australia

Streaming ||||||||| 100%

Eye alt 3190.40 km

Nesting populations can be monitored, this can give an idea On good feeding grounds.

Solomon Islands

oral Sea Is

Queensland

Australia

Capricorn-Bunker

© 2010 Europa Technologies © 2010 MapData Sciences PtyLtd, PSMA

Streaming |||||||| 100%

New Caledonia

^{∞2006}Google™

Vanuatu

Ö

Eye alt 3190.40 km

Pointer 16°53'41.50" S 152°00'52.68" E

æ.



Colomon Islands

All females return to nest at the area they were born This is called the "genetic stock"

Coral Sea Islands

Queensland

**

*

*

Australia

New Caledonia



Vanuatu

0

8

Pointer 16°53'41.50" S 152°00'52.68" E

*

æ.

Streaming |||||||| 100%

© 2010 Europa Technologies © 2010 MapData Sciences PtyLtd, PSMA

Eye alt 3190.40 km

We share stocks between south pacific islands

Solomon Islands



Raine Island



Capricorn-Bunker

Queensland



New Caledonia

© 2010 Europa Technologies © 2010 MapData Science's PtyLtd, PSMA

Pointer 16°53'41.50" S 152°00'52.68" E

æ.

Streaming ||||||||| 100%

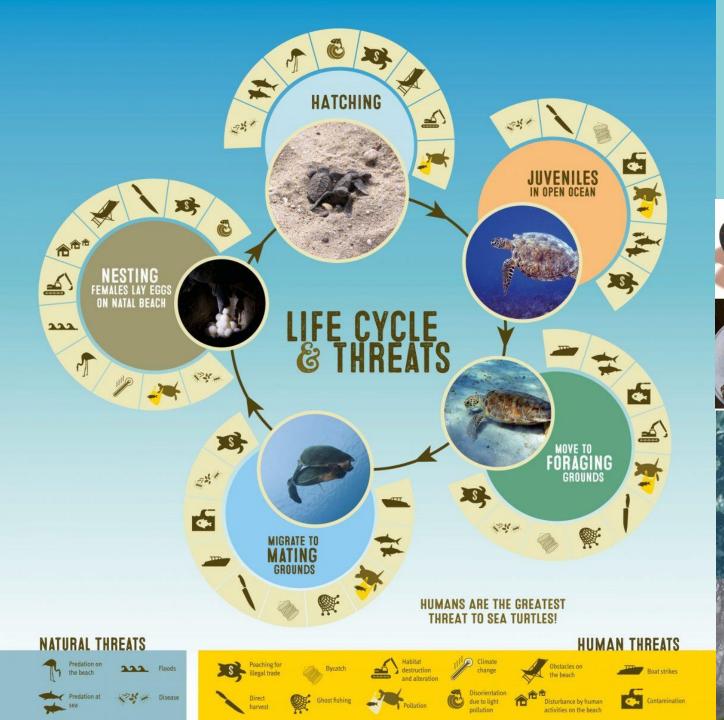


Vanuatu

S

Eye alt 3190.40 km

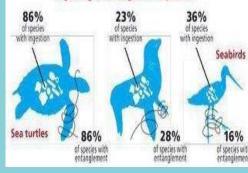
The most common threats and injuries that come into rehabilitation



Natural and Human Threats to Marine Turtles



Percentage of marine species worldwide ingesting or entangled with plastic⁵







- They are subjected to natural challenges from when they emerge
- However, human threats are outweighing natural threats, which is causing populations to decline around the world.

Diagnosis and treatment

Initial treatment x rays. We also have the use of a CT scan at QLD x ray which gives a better diagnostic tool



CAIRNS TURTLE Hawks











Marlin Coast Veterinary Hospital

ETE

1:

•





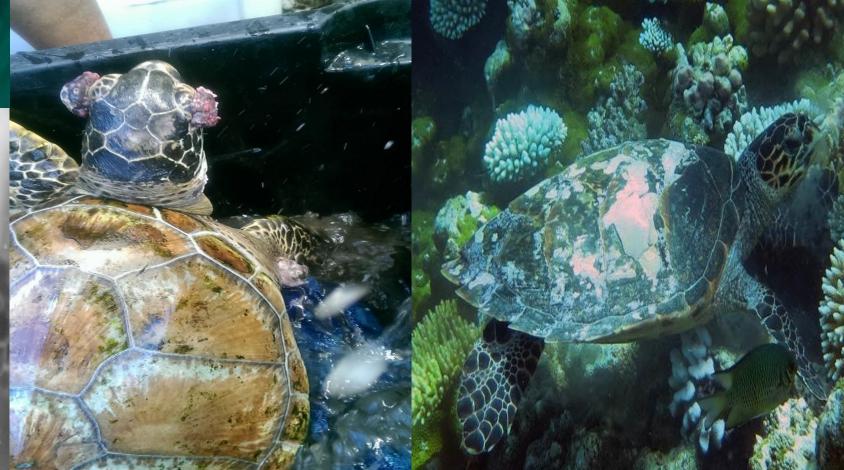


Boat Strike













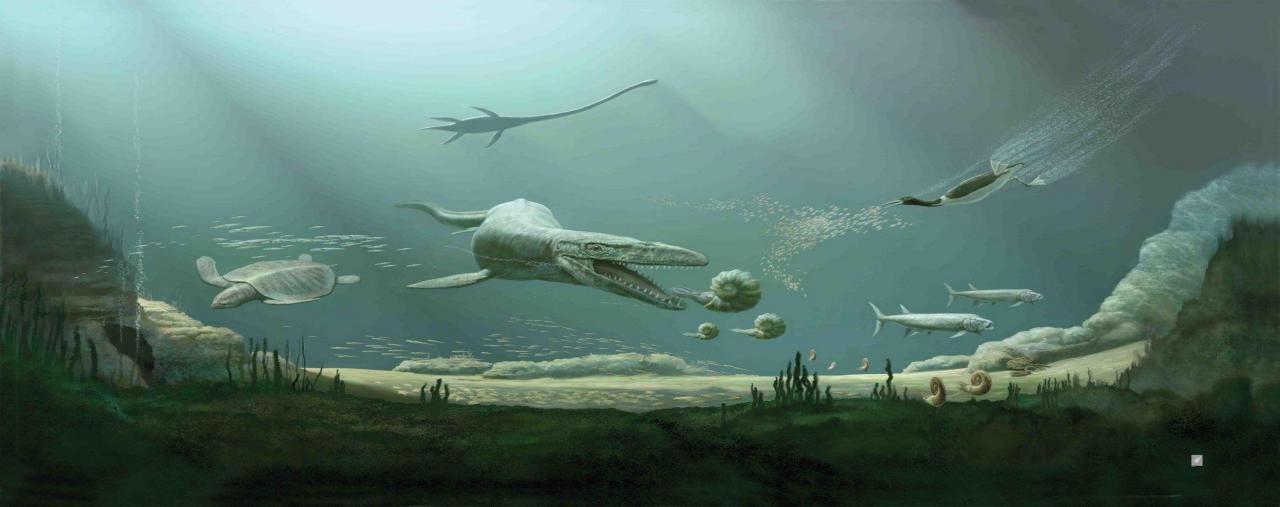
1 in 1,000 hatchlings survive to breed Warmer ocean brings in new predators

Increasing sand temperature: 99% females

Plastic and

Global environmental threats on marine turtles into the future.

microplastic Climate Increasing increasing threats from change is toxins now presenting Stronger Sea greater storms eroding level threats beaches rise



Marine turtles have been swimming the oceans for over 150million years. They have outlived many of their reptilian relatives such as the mosasaurs and plesiosaurs. Understanding how sea turtles responded to past climate changes could paint a picture of how they would survive threats from present-day climate change. Although climate change during this period was gradual unlike the current climate change which is accelerating so rapidly many species of animals are unable to adjust and are dying ^{© Karen Carr}

Turtle ancestors roamed the Ocean over a 100 million years ago surviving temperature changes Present long term detrimental effects from climate change

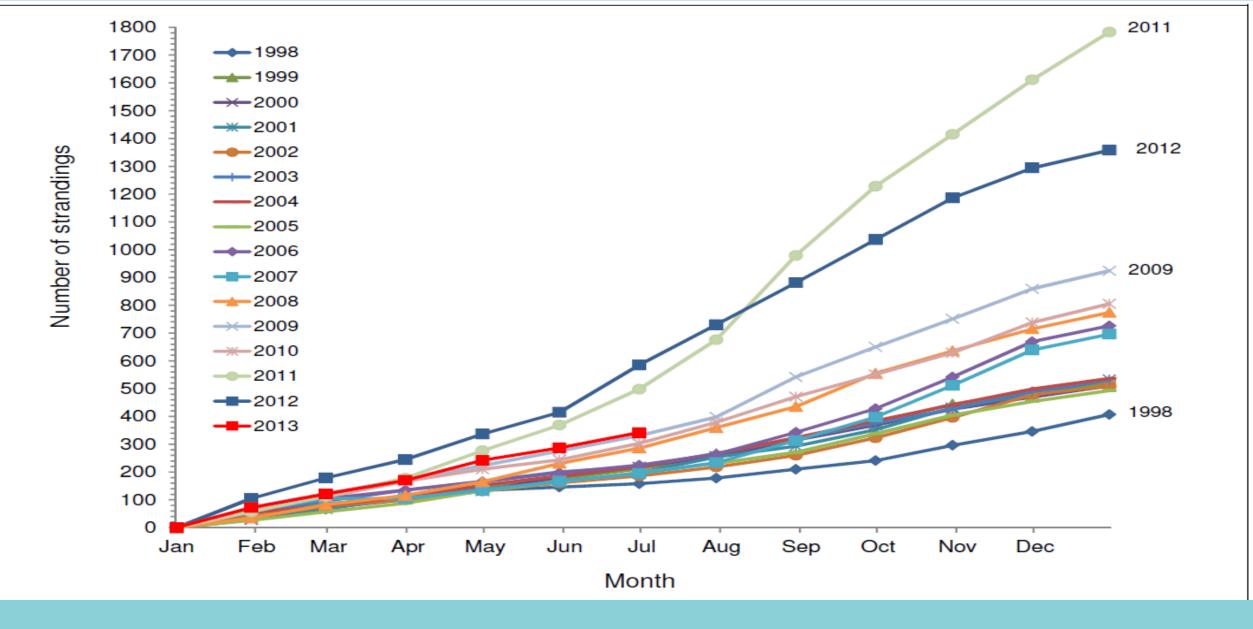
These fluctuations altered nesting beaches

Seaturtle CSI looks at past events and current data of turtles life history and then they can therorise what iis

To look at the future and what can be done CSI turtle is looking at rocks, snails, penguins and the history recorded in the turtle DNA

Although they may have survived shifts in climate change over long periods. Present day rising temperatures are very rapid and the capacity to adapt is still unclear

This rapid chane may compromise their long breeding periods



Monthly cumulative marine turtle strandings by year for the Queensland East Coast



A whole new ocean: A whole new world



My name is Tilly: I am a green turtle hatchling. I would like to share my journey through my eyes

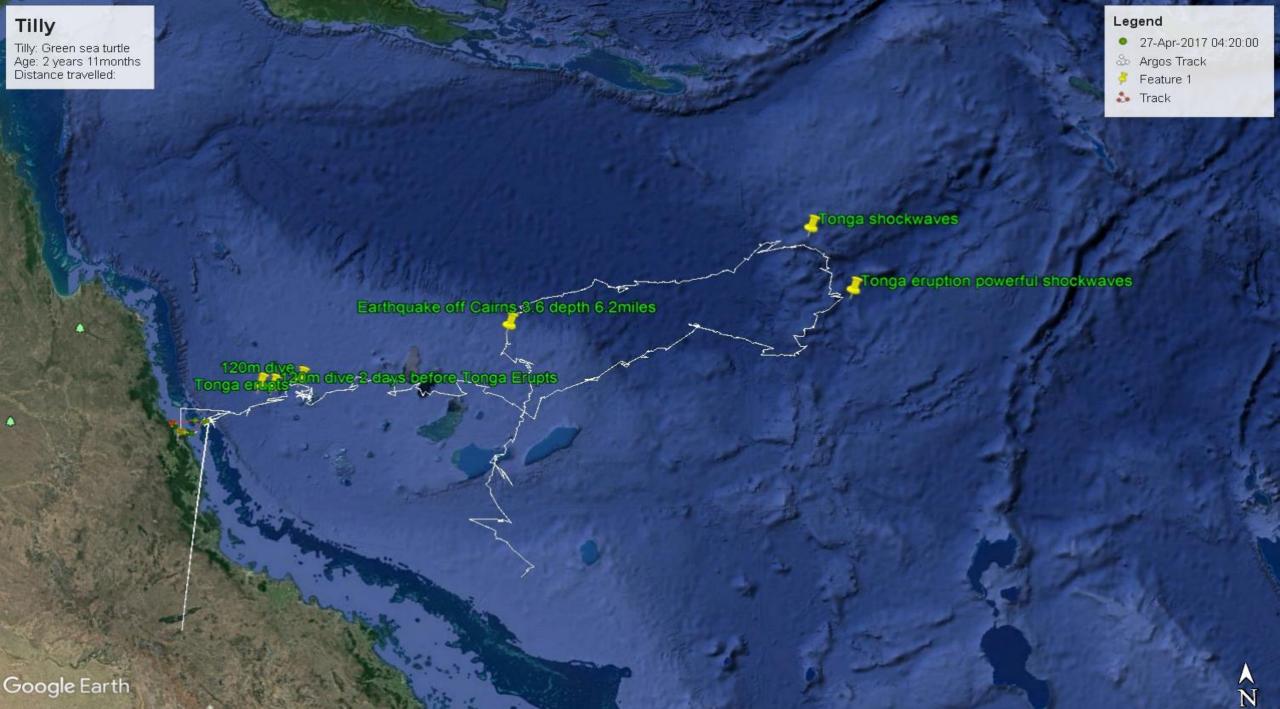












Data SIO, NOAA, U.S. Navy, NGA, GEBCO

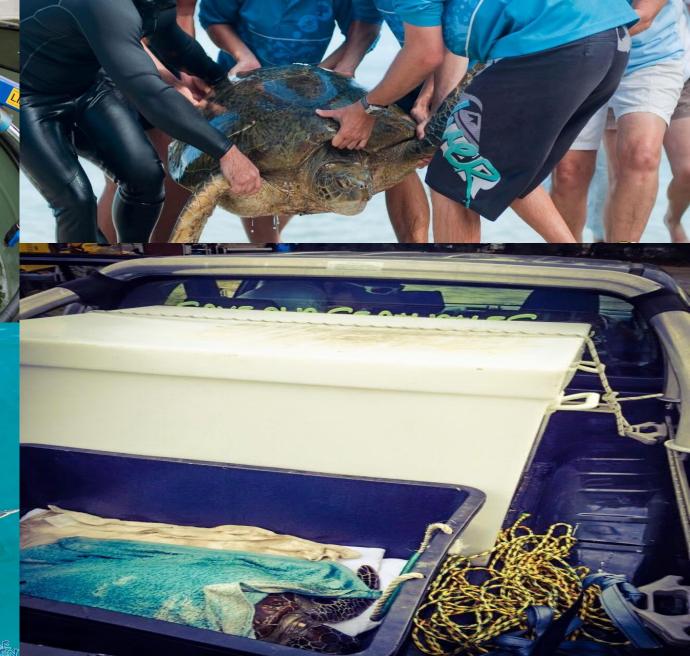
Max depth Hunga Tanga Hunga Haápai large and powerful climax		Max depth Tracker 226099 MK 10 Wildlife computers	Tag no 226095 0.5 226099 0.5 226099 0.5 226099 0.5 226099 0.5 226099 0.5 226099 0.5 226099 0.5 226099 0.5 226099 0.5 226099 0.5 226099 0.5 226099 0.5 226099 0.5 7 ransn 226099 0.5 7 ransn 226099 0.5	niss Mk10 18-Dec-21 niss Mk10 18-Dec-21 niss Mk10 18-Dec-21 niss Mk10 18-Dec-21 niss Mk10 18-Dec-21 niss Mk10 18-Dec-21	2:10:00 2:20:00 2:30:00 2:40:00 2:50:00 3:00:00 3:10:00		1.5 1.75 1.5 1.75 120 14.25 120 14.25 1.5 1.75 1.5 1.75 1.5 1.75 1.5 1.75 1.5 1.75 1.5 1.75	DN 29.3 25.2 25.2 29.3 29.3 29.3 29.3 29.3	 √in 0.3
-90. Hung Tonga Hunga Haápai submarine Volcano(these volcano's are deeply Earthquake 3.6 magnitude explosive at great depths) Off the coast of Co	-60. -90.	Hung Tonga Hunga Haápai submarin Volcano (these volcan	rge and	powerf	ul clim	Earthquake			





























Time to go back out where I belong