



## Care for Hedland Environmental Association Turtle Monitoring Program

Volunteer Information Pack 2019/20





Welcome to Care For Hedland Environmental Association! Thank you for your interest in wanting to make a difference and supporting conservation initiatives by our organisation. The Turtle Monitoring Program is very special to Care For Hedland and is the main reason why the organisation was founded by Chairperson Kelly Howlett in 2003. Since then volunteers have helped us monitor, conserve and educate in our local community and are a valuable asset to our program.

This booklet is designed to give you an overview of the organisation, program, what to expect and what to bring.

## Contents

<i>Introduction</i>	<i>page 2</i>
<i>Overview of Care For Hedland Environmental Association</i>	<i>page 3</i>
<i>Partners</i>	<i>page 4</i>
<i>Our Aims</i>	<i>page 4</i>
<i>Research area</i>	<i>page 4</i>
<i>Project work</i>	<i>page 5</i>
<i>Logistics</i>	<i>page 7</i>
<i>Resources and reading</i>	<i>page 11</i>
<i>Contacts</i>	<i>page 11</i>

## Introduction

Care For Hedland operates out of Port Hedland, one of Australia's bulk-tonnage port and the largest iron ore export port in the world, handling over 250 million tonnes of product a year. The main industries, which define Port Hedland's physical and economic landscape, are iron ore processing and export, salt production and manganese export. 'Hedland' consists of two separate but close townships; Port Hedland and South Hedland, and has a population of approximately 20,000 people.

The town and surrounding Pilbara region represents an ancient landscape with some of the oldest geology in the world. The region experiences a harsh climate of arid-tropical conditions across many habitats from coastal to semi-arid and desert landscapes.

Port Hedland is located on the Pilbara coast, Western Australia, 1765 km north-west of Perth, 242 km from Karratha and 612km from Broome. Port Hedland has a rich cultural history and identity. The traditional land owners, the Kariyarra people, call Port Hedland 'Marapikurrinya', referring to the hand-shaped formation of the natural tidal creeks moving in from the coast.



*Map of Australia showing the location of Port Hedland in the country's northwest.*

## Overview of Care For Hedland Environmental Association

The Care For Hedland Environmental Association is an independent environmental interest group, established in 2003, to pursue a shared vision of environmental awareness and improvement for the townships of Port and South Hedland, along with the wider Pilbara region. The Association acts as an effective conduit for the communication of environmental and sustainability information into the community and provides a forum whereby business, industry, government and community can discuss barriers, opportunities and solutions to sustainable development for Hedland and the Pilbara.

Care For Hedland is run by a committee of volunteer community members, and has over 180 members to date. Volunteers are a major resource for the delivery of our projects, and without them we simply would not be able to achieve the things we do.

We are actively involved in raising environmental awareness in its local and wider communities through the delivery of 4 key programs: Turtle Monitoring, Garden Club, Waste Management and Education.



## Partners

Care For Hedland Environmental Association is proudly partnered with BHP. We also have many other financial and in-kind supports such as Lotterywest, North West Telegraph, Spirit Radio and the Esplanade Hotel.

## Our aims

1. Bring ideas/feedback to government and bodies on environmental/sustainability issues.
2. Assess and prioritise current and future environmental/sustainability issues.
3. Ascertain public perception of responsible bodies' efforts in environmental management.
4. Assist awareness-raising of environmental/sustainability issues.
5. Build a partnership between the community, business/industries and government agencies for the management of environmental/sustainability issues.

## Research area

Research is conducted on two town beaches in Port Hedland. The main beach where the majority of nesting occurs happens to be the Port's town beach which is frequented by visitors for recreational purposes. The second beach which is monitored is located in a suburb called Pretty Pool. Pretty Pool Beach receives fewer nesting turtles and has had issues with vehicles on the beach and foxes in the past.



## Environment

The Hedland environment includes marine and estuarine ecosystems as well as semi-arid landscapes all of which nurture an array of native species. Coastal environments are diverse, comprising of mudflats, mangroves, sandy islands, coastal dunes and beaches. Inland, the landscape is dramatically dry, broad, flat sandy plains which support drought-tolerant vegetation.



## Culture

Port Hedland and its surrounds is rich in culture. There are more than 31 Aboriginal language groups in the Pilbara region which includes the Kariyarra, Yindjibarni and Nyamal countries. Today Aboriginal cultural and language groups in the Pilbara are still strongly connected with their land and cultural beliefs and practices.

## Climate

Hedland generally experiences a very hot climate which is defined by two main seasons; Summer (wet season) is from around November to April with extremely hot days and warm, balmy nights. This season also experiences spectacular lightning storms, isolated rain showers and cyclones. The main cyclone season is between January and March. Winter (dry season) runs from May to October and experiences milder day time temperatures and cooler nights.

For the time of the turtle monitoring season (November to February) temperatures can easily reach 40°C with very warm night time temperatures. It is therefore important to take this into consideration when packing, ensuring you have cool clothing and sun protection.



## Project work

Volunteers may have the opportunity to assist with 6 different areas: morning track monitoring, night monitoring, tagging, morning hatchling monitoring, data management and community events such as holding market stalls, promoting the program, community education and school talks.

### Morning track monitoring

Volunteers assist staff to record all new activities made by turtles emerging to nest the previous night. Both successful and unsuccessful emergences are recorded and added to a database.

### Night monitoring

Volunteers are required to assist staff to observe turtles coming to shore to nest at high tide. A major focus of this work is engaging public interest, education and awareness-raising and people management in order to protect nesting turtles from human disturbance on the beach.



## Tagging

Scientific tagging is only run for 2 months from early November to mid-December. Volunteers assist our Scientific Coordinator by recording data, restraining the turtles and removing barnacles. Please be advised that volunteers WILL NOT be doing the actual tagging of turtles themselves as this requires a high level of skill and expertise. Volunteers will be assisting in the tagging process only.



## Morning hatchling monitoring

Hatchlings start to emerge from the nests from around late December through to mid-February. Volunteers will assist staff to walk along the beaches and record all hatchling emergences and nest disturbance and may assist hatchlings where necessary. As this biological event is of great interest there are often members of the public on the beach to see the hatchlings, therefore entailing a degree of people management and education.

## Data management

You can't collect scientific data without needing to enter it somewhere! Volunteers will be required to enter data collected from morning and night monitoring and tagging into a collective database. For those with the know-how, you could also be involved in performing some simple data analysis too.

## Community events

As we are a community-run group, we place a lot of value on engaging our local and non-local communities in what we do. It is so special to have this rare species of turtle nesting year after year on a town beach so close to residential areas, industry and Australia's largest export port. We encourage everyone to be involved, and do our best to manage this, which is why we rely a lot on our volunteers to assist.

Care for Hedland holds stalls at local markets and shopping centres, publish articles in the local newspaper and conduct community and school talks. You might even find yourself talking on the local radio!



When you are not busy doing field work at the beach, entering data or resting, you will likely find yourself involved in one of our community activities.

## Volunteer itinerary example work days

Below are two examples of a typical volunteer work day. Some days will be busier than others, and it will also depend on how many volunteers we have to help out, both local and non-local. Most work is done Monday to Friday but some work will be required to be done on weekends, also. Monitoring occurs each day except New Years Day.

Example 1	
Hour	Activity
5:30am	Pick up from accommodation to drive to beach
6am	Start morning monitor
8am	Finish morning monitor & eat breakfast
9am	Short radio interview (about CFH activities)
9:15am	Arrive at office to do data entry
12:30pm	Lunch
1-6:30pm	Rest
6:30pm	Social event or shopping centre stall

Example 2	
Hour	Activity
2am - 10am	Rest (after late night monitoring)
11am- 12:30pm	School talk activity
12:30pm	Lunch
1-6:30pm	Rest
9:30pm – 1:30am	Night monitoring or tagging



Please be aware that some activities are only conducted during specific times of the year:

Tagging: Mid-October to mid-December 2019

Morning track monitoring: 30th October 2019 to 28th February 2020

Morning hatchling monitoring: around late December 2019 to mid-February 2020

Community work and data entry: October 2019 to February 2020

Out-of-town volunteer dates: 24th October-24th December 2019 and 2nd-24th January 2020

**Please consider these dates when booking to avoid disappointment!!**

### Potential project hazards

The Pilbara is a rugged part of the country, with some of Australia's hottest temperatures and its fair share of dangers both on land and in the water. When you arrive on the program you will be required to read through our health and safety Risk Assessment, but as a heads up, here are some things to be prepared for:

- **Hot weather.** The turtle season coincides with summer meaning temperatures can breach 40°C. Prepare for hot days and very warm, balmy nights!
- **Cyclones.** Hedland is located in a region which experiences the effects of an average of 4-5 cyclones per year. Most cyclones occur between late January and late March.
- **Dangerous marine animals.** Our beaches are home to animals such as stingrays, stone fish and cone shells.

Please refer to the kit list below to ensure you pack appropriately.





Equipment	Need	Quantity	Comments	Check
<b>Clothing</b>				
<b>Enclosed shoes</b>	Essential	1	To do any field work you must be wearing enclosed shoes to protect your feet against rubbish that may be in the sand and harmful marine animals on the reef. We generally use hiking boots or sneakers- just make sure they're thick soled and prepared to get a bit wet!	<input type="checkbox"/>
<b>T-shirts</b>	Essential	3+	You will receive one volunteer shirt, but you will want to bring more for other field work and relaxing/down time.	<input type="checkbox"/>
<b>Fleece/Sweatshirt</b>	Optional	1	It is extremely hot in Port Hedland, especially during the summer months (November-February), however you may want one light long sleeve cardigan/sweatshirt/jumper in case we get some cool weather with cyclones.	<input type="checkbox"/>
<b>Trousers &amp; Shorts</b>	Essential	3+	To deal with the heat, we wear shorts for day work, both in the field and in the office. Long pants are useful for night work as they protect your knees and keep the sand out (to an extent!).	<input type="checkbox"/>
<b>Waterproof raincoat/poncho</b>	Optional		It does not often rain in Hedland, however cyclones will bring a lot of rain, mainly in January – February.	<input type="checkbox"/>
<b>Swimsuit</b>	Essential	1	There is a safe swimming beach and a pool to swim at.	<input type="checkbox"/>
<b>Thongs/sandals</b>	Optional	1	These are handy for down time as shoes can get a bit hot sometimes.	<input type="checkbox"/>
<b>Hat/cap</b>	Essential	1	Wide-brimmed is best to offer as much protection as possible. Caps are useful at night to block out light from street lights which can disrupt your night vision.	<input type="checkbox"/>
<b>Sunglasses</b>	Optional	1	We have many cloudless days so sunglasses help reduce the glare on the beach.	<input type="checkbox"/>
<b>Other</b>				
<b>Small backpack</b>	Optional		This may be useful to keep your personal belongings together (such as keys, wallet, sunscreen, water) during field work.	<input type="checkbox"/>
<b>Alarm Clock</b>	Optional			<input type="checkbox"/>
<b>Soap, shampoo and other toiletries</b>	Essential		Your accommodation DOES NOT supply this. Please bring your own or buy it from shops in Hedland.	<input type="checkbox"/>
<b>Towel</b>	Essential		Best to bring your own as it is not guaranteed at your accommodation.	<input type="checkbox"/>
<b>Sunscreen</b>	Essential			<input type="checkbox"/>

Equipment	Need	Quantity	Comments	Check
<b>Water bottle</b>	Essential	1+	Minimum 1L water bottle	<input type="checkbox"/>
<b>Books/playing cards</b>	Optional		This is just a suggestion for those coming in Jan/Feb as we do not work if a cyclone is imminent.	<input type="checkbox"/>
<b>USB stick</b>	Optional			<input type="checkbox"/>
				<input type="checkbox"/>

## Training

You will receive full training when you arrive to start your program. It is a good idea to bring a notepad and pen to write anything down. Training will be delivered by a series of PowerPoint presentations, quizzes and practical exercises in the field.



## Logistics

### Accommodation

Interstate/international volunteers stay in Port or South Hedland through a billeting system where our local members and volunteers kindly open their homes to provide you with a place to sleep and a hot shower. Bedding is supplied however please bring all your own toiletries and towels. We ask that you please respect our volunteer/member homes and treat it as your own (if not better!).

### Food

Food is not included in the fee payable for the program. By not having food included it means we can keep our costs down, unlike many other volunteer programs!

Please allow your budget to include money to pay for food here. There are a couple of supermarkets in Hedland (Coles and Woolworths) and you are able to cook food at your billet accommodation.

### Transport

Care for Hedland has 1 car which is prioritised for our staff first. For billet accommodation close to work areas you may be given a bike.

If there is no car available one of our coordinators will give you a lift for work and shopping trips.

### Other supplies



There are two very small shopping centres in Hedland, each with a supermarket. There are a collection of other shops, such as Harvey Norman, Kmart, Just Jeans, major banks (with ATMs), Brumbys, chemists, Chicken Treat, Subway, McDonalds and Sanity, but that's about it! Unless you can get what you need from any of these stores, it's best to bring it with you!



## Social

We organise a number of social events such as barbeques, drinks and community events such as movie nights. We encourage all volunteers and members to attend as it's a great way to meet people with a similar interest.

## Travel arrangements

Port Hedland has a small domestic/international airport with two carriers, Virgin Australia and Qantas. There are daily flights between Port Hedland and Perth, and less regular flights to and from Brisbane and Bali (Denpasar). **Please make sure you are aware of flight prices and book flights early. Booking flights in advance may save you money and will help us with allowing us more time to source accommodation.**

## Dates

You may come to volunteer with Care for Hedland at any time throughout the turtle nesting and hatchling season which runs from 30<sup>th</sup> October to 28<sup>th</sup> February. You may stay for as short or as long as you like - there are no set program start or finish dates.

## Costs

The cost of participating in the program is \$150/week for the first 2 weeks and \$50/week thereafter for longer stays.

What's included in the cost:

- Accommodation
- Pick up and drop off at the airport
- Work-related fuel for car
- Administration fees
- Local insurance for work-related activities
- Membership fee
- Volunteer t-shirt
- Care for Hedland soft toy
- Donation to the Association

### Account details for electronic bank transfer

Name: Care For Hedland Environmental Association  
BSB: 036 183  
Account: 154 364

### Mail address for cheque/money order

PO Box 436, Port Hedland WA 6721

What's NOT INCLUDED in the cost:

- Flights
- Any travel insurance
- Personal fuel for car
- Food
- Social-related expenses
- Personal kit

Payment can be made by cash, bank transfer or cheque/money order on or before the arrival date. A deposit is not required.



## Resources and reading

Here are a few websites and reading materials to help you get a better idea of what you will be doing and where you are going!

Care For Hedland website

<https://www.careforhedland.org.au/>

Port Hedland Visitor Centre website

<http://www.visitporthedland.com/>

Department of the Environment, Federal Government of Australia Threatened Species Profile of Flatback

[http://www.environment.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon\\_id=59257](http://www.environment.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon_id=59257)

A guide to turtle beach track monitoring in Australia

[http://www.ningalooturtles.org.au/pdf\\_downloads/TRAINING%20GUIDES%20DOWNLOADS/A%20Guide%20to%20Beach%20Track%20Monitoring%20in%20Australia.pdf](http://www.ningalooturtles.org.au/pdf_downloads/TRAINING%20GUIDES%20DOWNLOADS/A%20Guide%20to%20Beach%20Track%20Monitoring%20in%20Australia.pdf)

## Contacts

Please contact Association Coordinator Jo Smith for any extra information or to confirm your booking.

[coordinator@careforhedland.org.au](mailto:coordinator@careforhedland.org.au)

Mob: 0488 907 260



*Thanks for your interest and we hope to see you on the beach!*

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