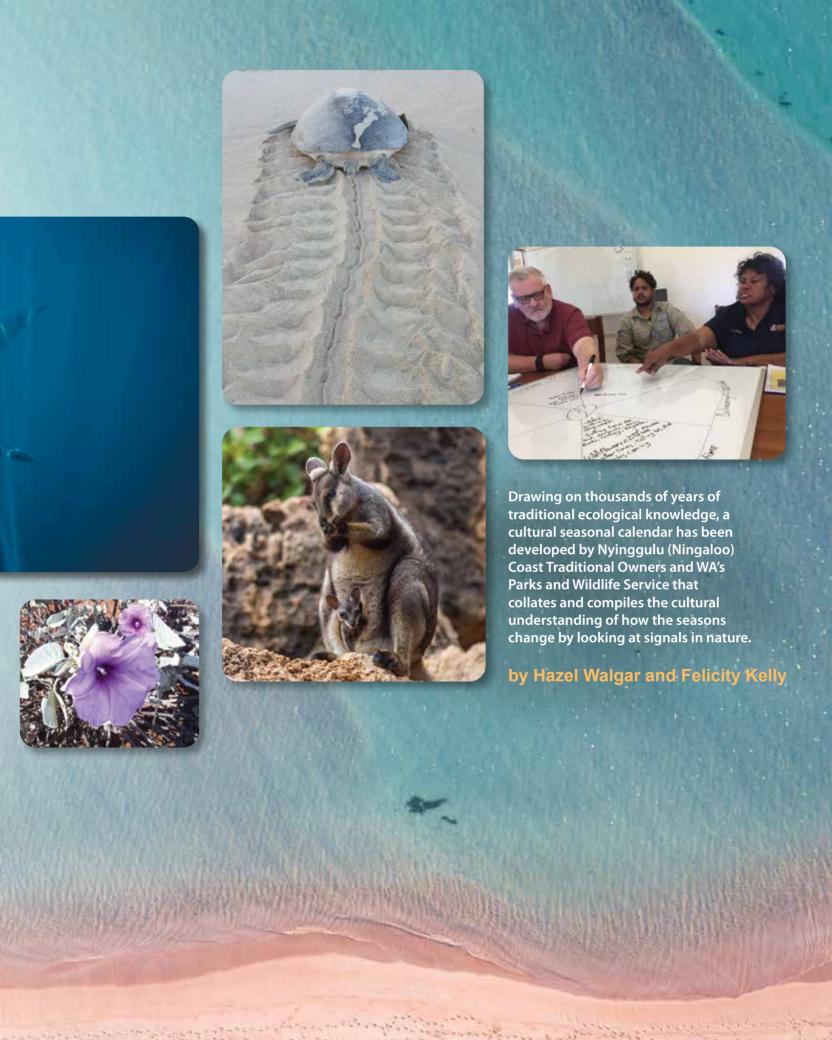
Seasonal knowledge of

Nyinggulu coastal peoples

The Baiyungu, Yiniguurdira and West Thalanyji, north-west Australia





irst Nation's people have had an ongoing connection with the Nyinggulu (Ningaloo) Coast spanning more than 50,000 years. The Nyinggulu Ganyarjarri (the people who belong to the Ningaloo Coast) have a deep understanding of the Thanardinyungujarri (the seasons of Nyinggulu) and how they influence ngarrari (land) and thanardi (sea) country.

Traditional Owners from the Nganhurra Thanardi Garrbu Aboriginal Corporation (NTGAC) and the Parks and Wildlife Service at the Department of Biodiversity, Conservation and Attractions (DBCA) have been working together on the creation of a seasonal calendar that represents traditional ecological knowledge of the Nyinggulu (Ningaloo) Coast.

Understanding the seasons of Nyinggulu has sustained Traditional Owners for thousands of years, providing them with food, water, medicine and trading goods. Traditional ecological knowledge has been passed down from generation to generation.

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Photo – John English

Main Mauds Landing, Coral Bay.
Inset clockwise from left Gujawari (whale shark) swimming in Ningaloo Marine Park.
Photos – Tourism WA
Majun (turtle) returning to the ocean.
Peter Austin sitting with Ehan Cooyou and Hazel Walgar providing linguistic assistance.
Photos – DBCA
Gujangganhunghu (black-flanked rock-wallaby) at Yardie Creek, Cape Range
National Park.
Photo – Tourism WA
Bush tomato (Yardie morning glory).

Above One last workshop to finalise the calendar. *Photo – DBCA*





"Understanding the seasons of Nyinggulu has sustained Traditional Owners for thousands of years, providing them with food, water, medicine and trading goods. Traditional ecological knowledge has been passed down from generation to generation." *Hazel Walgar*

COMING TOGETHER

For Baiyungu Traditional Owner Hazel Walgar, developing the seasonal calendar was a long awaited dream.

"Baiyungu people have known the changes through the season by understanding the movements and cycles of animals and how the flowering and fruiting of particular plant species signal the right time to hunt and gather as the seasons change," Hazel said.

"This traditional knowledge has been passed down from generation to generation. I am happy to be sharing this with the younger generation."

The Nyinggulu Seasonal Calendar began as a brainstorming session on a whiteboard in the back office of Cardabia Homestead back in 2018. Over three years, a series of focus groups and community workshops were held in Exmouth, Carnarvon and Cardabia Station, bringing Baiyungu and Thalanyji Traditional Owners together to collate and compile traditional ecological knowledge of the Nyinggulu Coast.

Dr. Emma Woodward from CSIRO, who has experience in assisting Traditional Owners in their knowledge into a seasonal calendar wheel format, has made an invaluable contribution to this project.

Emma worked closely with the Traditional Owners to turn their traditional ecological knowledge into the wheel format displayed in the Nyinggulu Seasonal Calendar.

"I was excited from the outset to support Traditional Owners to document and compile their ecological knowledge into the Nyinggulu Seasonal Calendar as I could see the calendar's potential in raising awareness of the role of Traditional Owners, and their strong ecological understanding of Country, in the active management of this highly visited World Heritage region," Emma said.

"Also, the process of creating the calendar enabled different knowledge systems to come together—with DBCA staff sharing their specific knowledge of migratory birds with Traditional Owners; and Traditional Owners sharing detailed cultural knowledge of plant use in a true demonstration of two-way learning exchange of knowledge."

WHEEL OF KNOWLEDGE

Through the development of the calendar, linguistic researcher Peter Austin joined one of the focus group workshops at Cardabia and provided language support throughout the project's development.

Peter has a long history of working with





Top Baiyungu Traditional Owners and Dr Emma Woodward from CSIRO reviewing the Nyinggulu Seasonal Calendar.

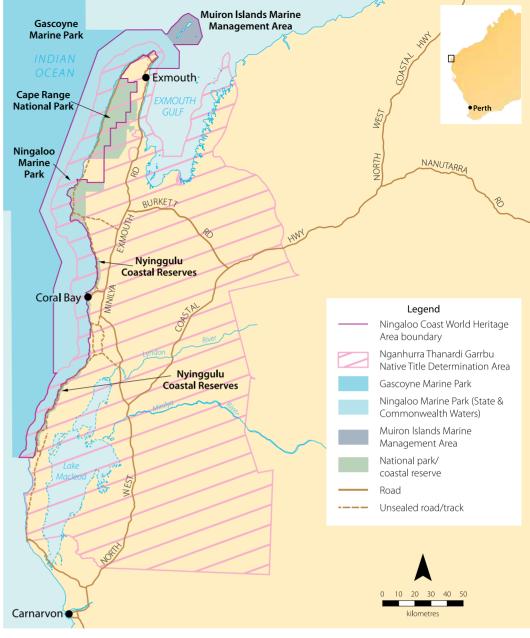
Above The Nyinggulu Seasonal Calendar in its early stages. *Photos – DBCA*

Below Turquoise Bay, Ningaloo Marine Park. *Photo – Tourism WA*

Baiyungu and Thalanji language groups, with some of his earliest work dating back to the 1970s.

The calendar features everything from the iconic species such as whale sharks, humpback whales and manta rays right down to some of the lesser known but extremely important creatures like the burrowing bee, ghost crab and migratory shorebirds. These are all interconnected and hugely important to Traditional Owners.

Many of the features convey the outstanding universal value (OUV) of the Ningaloo Coast World Heritage property and is a great way to highlight the inherent link between natural and cultural values. The depth of knowledge contained within the Nyinggulu Seasonal Calendar is a testament to a genuine joint management relationship between Traditional Owners and the State government on the Nyinggulu Coast.









Thubayurri – hot time

(December, January, February)

The visiting shore birds that come to Nyinggulu, they are referred to as garrbarajarri gayirrinyunghu, they come from long way, and they travel at night.

This is the hottest season, jirirri (mirages) are seen on the horizon. Hot easterly and south-westerly wabirri (winds) blow. It is the start of the cyclone season: cyclones bring rain and life. It is the mating season for many animals. The life cycle begins... We watch for wabagu (eagles) along the roadside and look after them by moving any roadkill into the bush. Eagles are an important totemic species, and mate for life.

Coastal Aboriginal people have a strong connection with wilarra (the moon) and the tides. The tides tell us what's happening on Country and tell us when it's the right time for fishing and hunting. Wilarra also shows us future weather: a halo around wilarra tells us that he is holding the moisture and that a long hot summer can be expected.

Wilarra thunthumurdu ngurndayi: small moon, best time for hunting and collecting on the reef, especially at night.

Our Aboriginal astronomy is the star of our dreamtime story. Baiyungu, Yinigurdira and Thalanyji people have deep connection to astronomy. It guides us on what food is available at every stage of the year.

Majun (green turtles and loggerhead turtles) are nesting.



Biyardi – warm and dry time

(March, April, May)

Gajalbu (emus) are mating, so don't hunt them. If there is no food around, they will put mating on hold. Male gajalbu are building up their strength—becoming fat—ready for sitting on the nest and then taking care of wimbiljarri (chicks). Thurru (caterpillars) travelling in lines tell you gajalbu are laying gawungga eggs.

Gajalbu are hatching. Thalu is an increase site where gajalbu become plenty. Gajalbu will always return to their dreaming place with their wimbiljarri (young chicks).

Bardurra (turkeys) are laying eggs. Dugongs are birthing and are resting in the Exmouth Gulf (nursery ground).

Large coral spawning events occur in accordance with the moon. The Old People used to do traditional burning at the right time, reading Country to know when to burn. Fire is important in the cycle of life and renews Country.

Turtle eggs are hatching. Gagulara (bush tomatoes) are eaten by bardurra (turkeys) and gajalbu (emus) throughout the year.

The ocean is nourishing and there is plenty of food for our visitor gujawari (whale shark). Many juvenile males visit Nyinggulu.

Pink-red algal slicks can be seen on the ocean.

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