

中国惠东海龟保护简况

A brief overview of sea turtle protection in Huidong, China

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Guangdong Huidong Sea Turtle National Nature Reserve

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PART 01

**Development of the
Sea Turtle Reserve**

PART 01 Development of The Sea Turtle Reserve

海龟保护区发展历史

In 1985, Huidong Sea Turtle Nature Reserve was established. In order to protect sea turtles, in 1986, Huidong Government declared an area of 4 square kilometers in the Sea Turtle Bay as special areas to maintain a better life for sea turtles and designated these areas protected by law.

In December 1986, the Reserve was promoted to provincial protective areas.

In 1992, approved by the State Department, it was further promoted to a National Reserve.

In 1993, it was joined in the Chinese Biosphere Reserve Network.

China Sea Turtle Bay



(photographed in 1985)



(photographed in 2025)

PART 01 Development of The Sea Turtle Reserve

- In June 2001, the scope of the Sea Turtle Reserve were enlarged, extending from 4 km² to 18 km² (land areas 2 km², sea areas 16 km²).
- In February 2002, Guangdong Huidong Sea Turtle National Nature Reserve was included in the "List of Wetlands of International Importance" by the International Wetlands.
- In 2013, the Perimeter protection zone of the Reserve has been enlarged to 700 km².

The Regulation Management of the Reserve 《广东省惠东海龟国家级自然保护区管理办法》

http://zwwgk.gd.gov.cn/006939748/201309/t20130909_404673.html



CONVENTION ON WETLANDS
(Ramsar, Iran, 1971)

This is to certify that

Huidong Harbor Sea Turtle National Nature Reserve

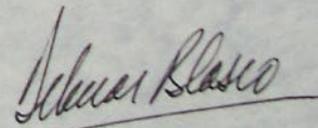
has been designated as a

Wetland of International Importance

and has been included in the
List of Wetlands of International Importance
established by Article 2.1 of the Convention.

This is site No.: **1150**

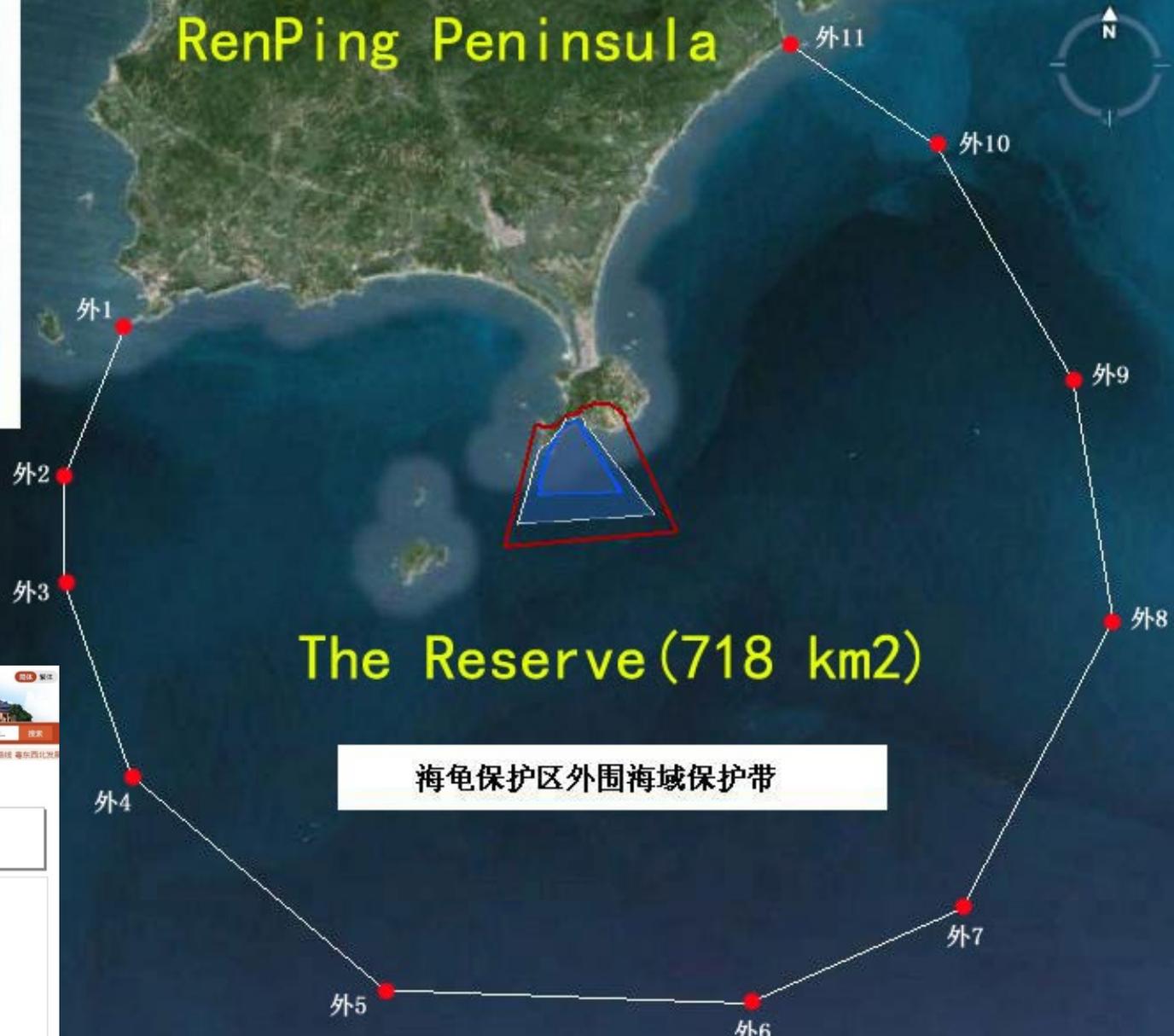
Date of designation *11 January 2002*


Secretary General
Convention on Wetlands

外围保护带坐标点

外1	22° 35' 13" N,	114° 44' 40" E
外2	22° 32' 16" N,	114° 43' 30" E
外3	22° 30' 21" N,	114° 43' 33" E
外4	22° 26' 54" N,	114° 44' 56" E
外5	22° 23' 12" N,	114° 49' 47" E
外6	22° 23' 58" N,	114° 56' 35" E
外7	22° 24' 34" N,	115° 00' 42" E
外8	22° 29' 39" N,	115° 03' 59" E
外9	22° 34' 06" N,	115° 03' 33" E
外10	22° 38' 39" N,	115° 01' 07" E
外11	22° 40' 42" N,	114° 58' 12" E

RenPing Peninsula



The Reserve (718 km²)

海龟保护区外围海域保护带

广东省人民政府
People's Government of Guangdong Province

广东省人民政府令
第 192 号

《广东省惠东海龟国家级自然保护区管理办法》已经2013年6月13日广东省人民政府第十二届9次常务会议通过，现予公布，自2013年12月1日起施行。

省长 朱小丹

2013年6月3日

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

Image © 2013 TerraMetrics
Image © 2013 DigitalGlobe

Google earth



PART 02

**Brief Report on
Research Work**

1.人工繁育

1. Artificial breeding

- 2017年惠东保护区在全国突破首例绿海龟人工繁育；连续9年成功繁殖，截至2024年底，已经成功产卵超过25000枚，孵出稚龟9000只；2025年（今年）产卵逾2500枚！
- In 2017, Huidong Reserve made a breakthrough in the country by successfully breeding green turtles artificially for the first time. Over the past nine years, it has achieved continuous success in reproduction. By the end of 2024, over 25,000 eggs had been laid and 9,000 hatchlings had been hatched. In 2025 (this year), more than 2,500 eggs have been laid!

Sea Turtle Artificial Breeding Base



2. 稚龟暂养

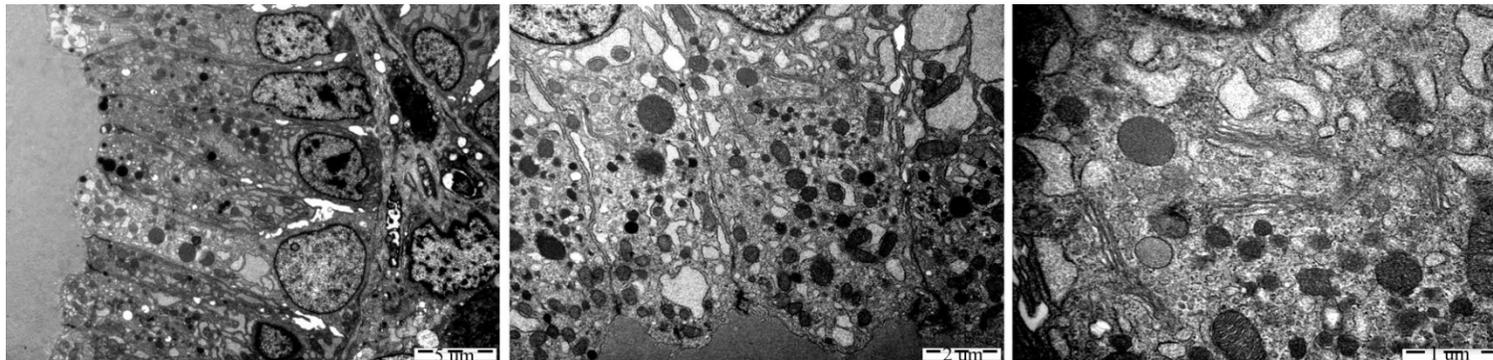
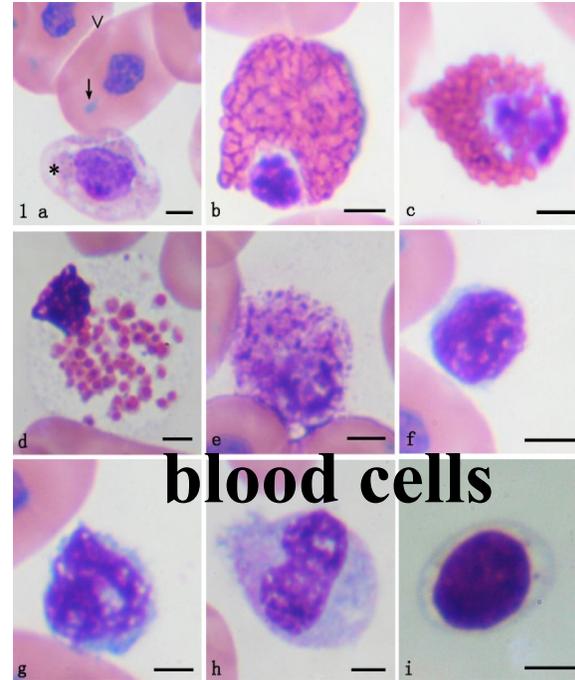
2. Temporary breeding of baby sea turtles

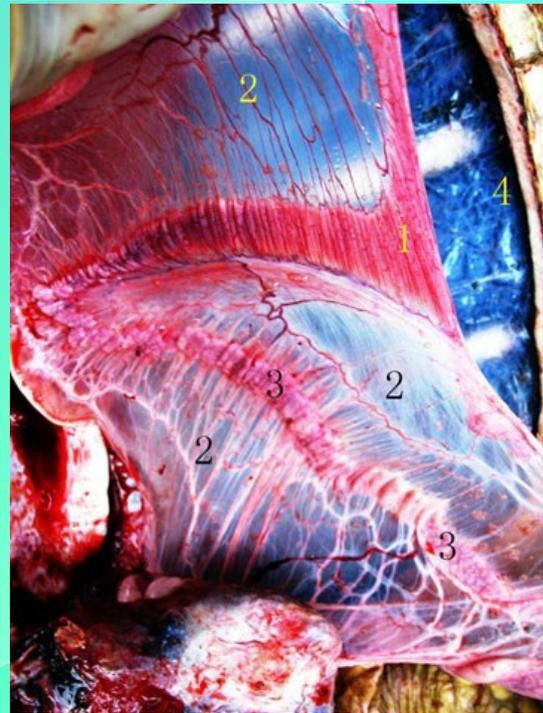


3. 疾病防治

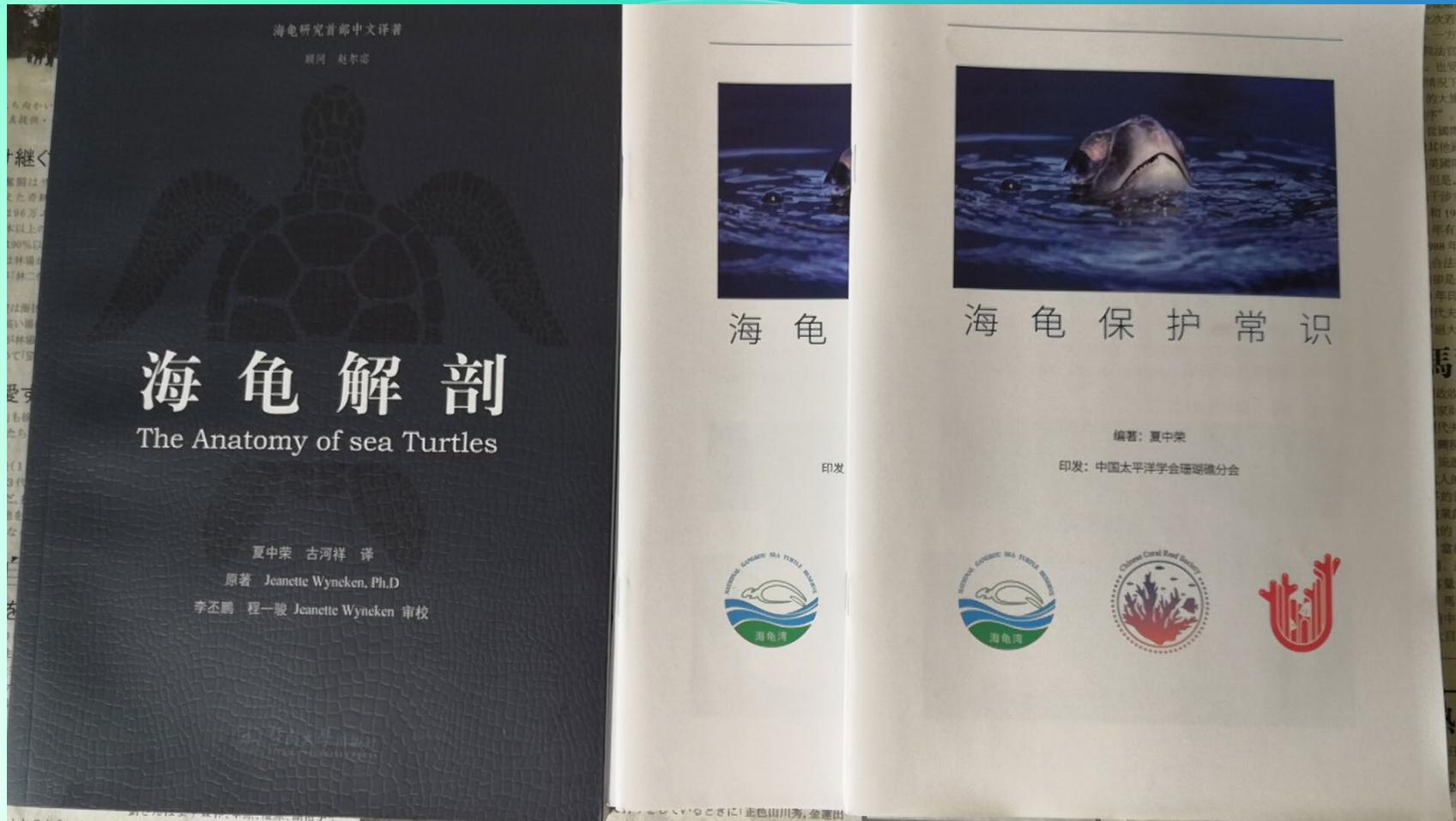
3. Disease prevention and control

- 单击此处编辑母版
- 二级
- 三级
- 四级
- 五级





Necropsy



The professional translation of sea turtle research--
"Anatomy of Sea Turtles" has been published in 2016.

4.野化放流

4. Rewilding and releasing sea turtles



A photograph of a beach scene. In the foreground, several blue plastic crates are scattered on the sand. A man in a white short-sleeved shirt and dark trousers stands on the left, looking towards the right. On the right, a man in a white long-sleeved uniform shirt and dark trousers with a white cap stands looking towards the left. In the background, other people in similar uniforms are visible. The beach is sandy, and the ocean waves are breaking in the distance. A large red text overlay is positioned in the upper middle of the image.

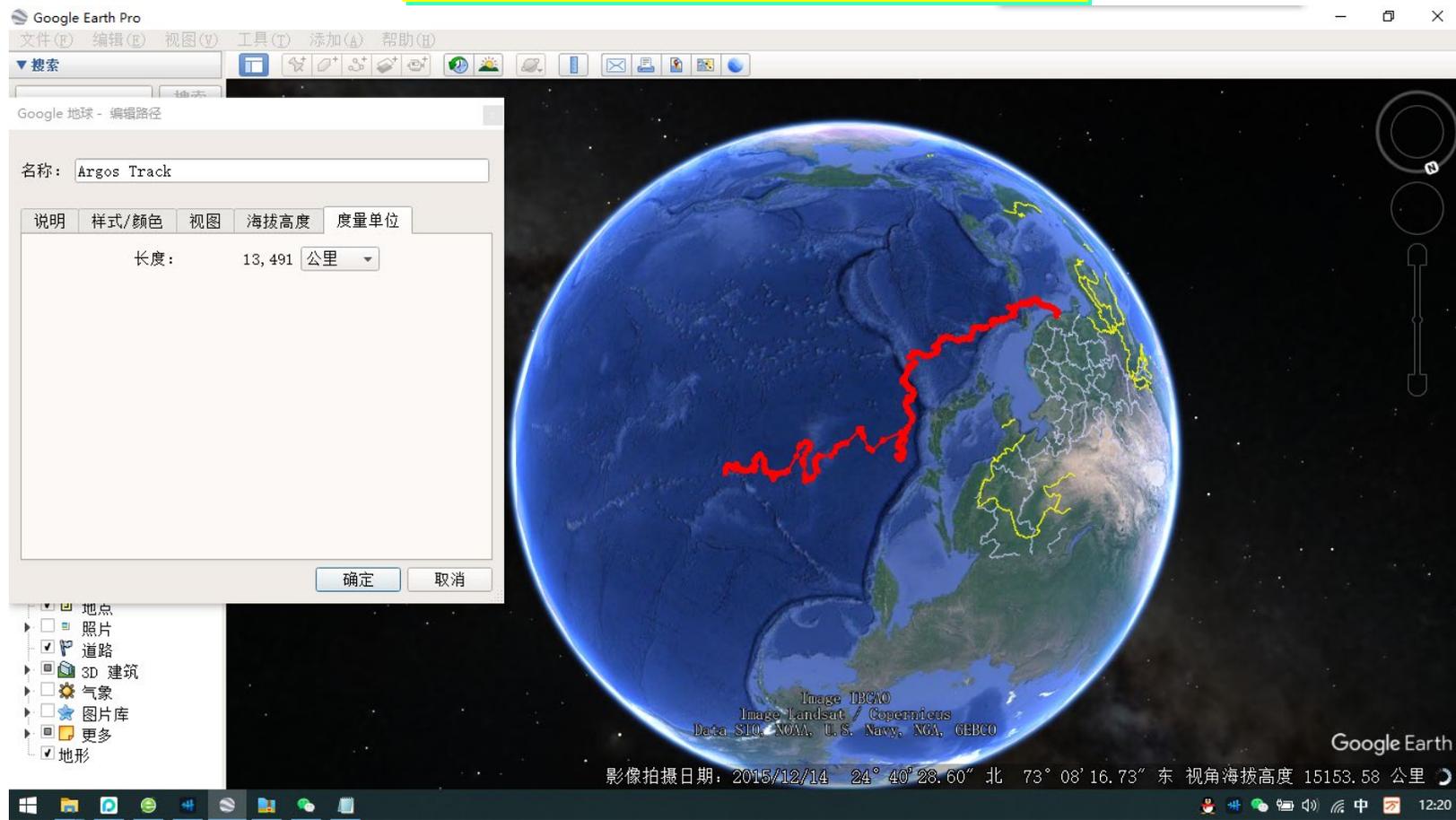
From 1985 to 2023, we protected 1324 times of wild female turtles which had landed. The number of clutches has reached 745, in which there were more than 83,500 eggs, over 68,000 eggs of these have been successfully incubated into hatchlings. Also, there were more than 140 adult female turtles tagged and about 64,000 hatchlings released into the South China Sea.

5.卫星追踪

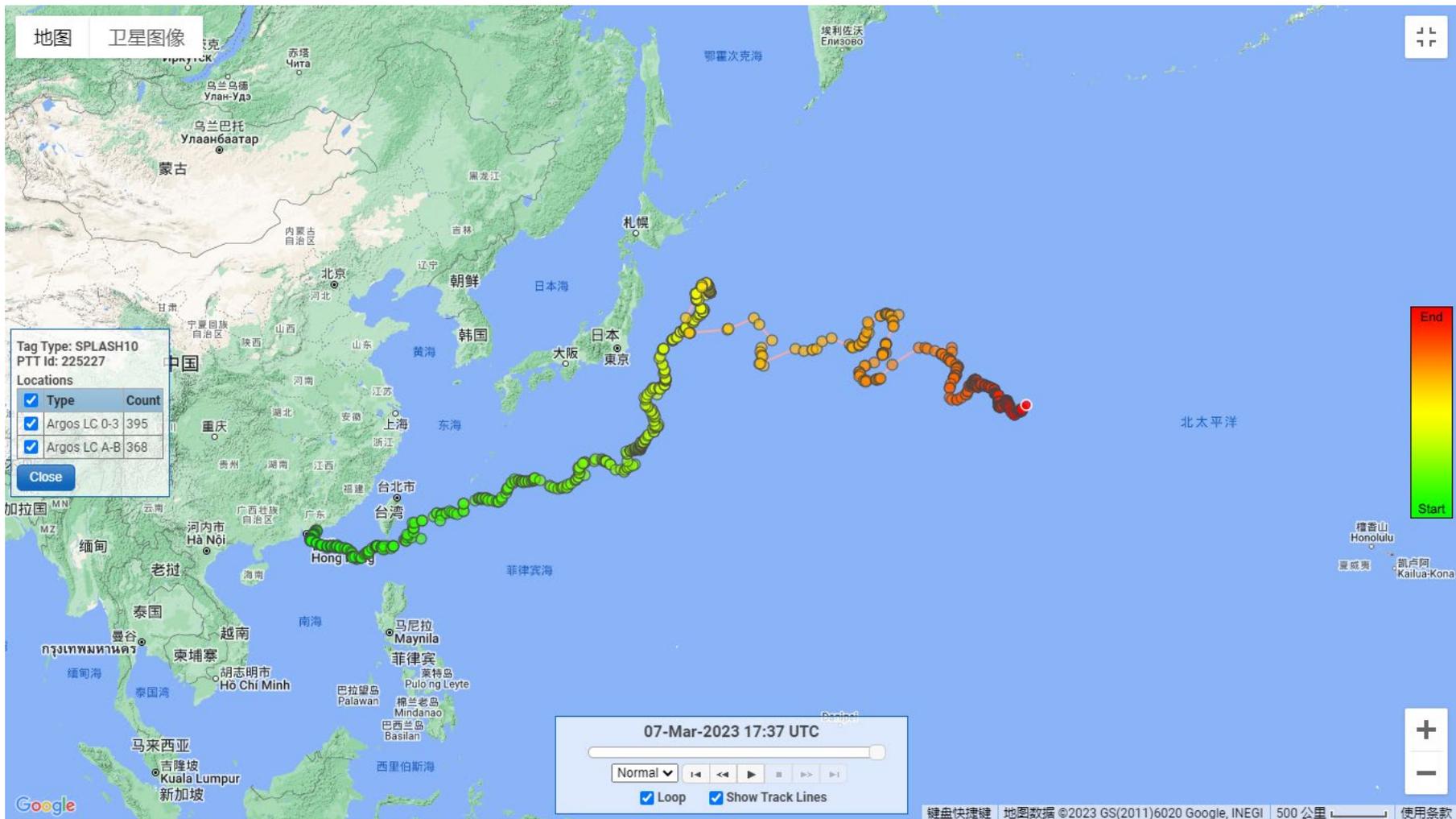
5. Satellite tracking

- 自2001年开始，已经用信标追踪超过100只海龟；
- 近5年，卫星追踪逾20只海龟，时间最长的超过341天；距离最长的达13500 Km。
- Since 2001, the Reserve has tracked over 100 sea turtles with tags.
- In the past five years, we have satellites tracked more than 20 sea turtles, with the longest tracking period exceeding 341 days; The longest distance reaches 13,500 Km.

中途岛的故事

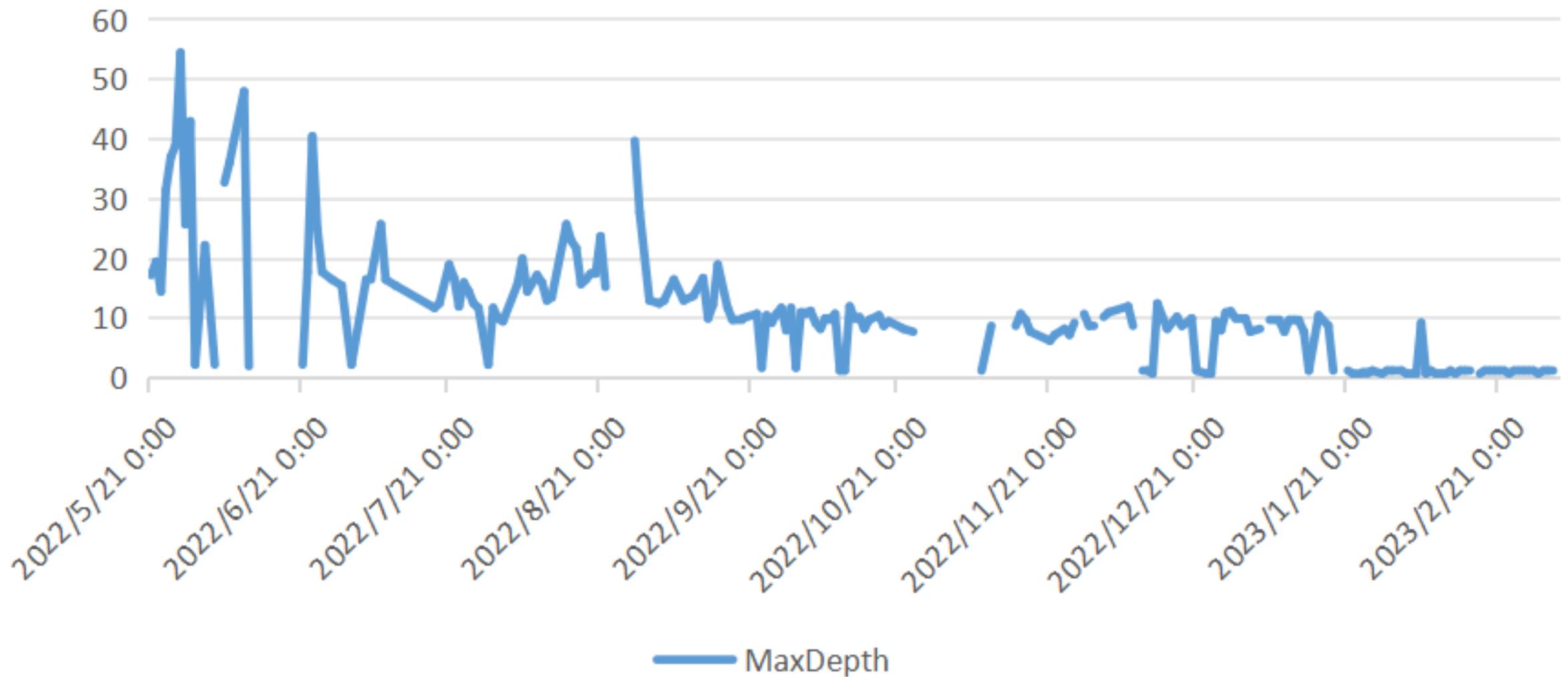


The story of Midway Island

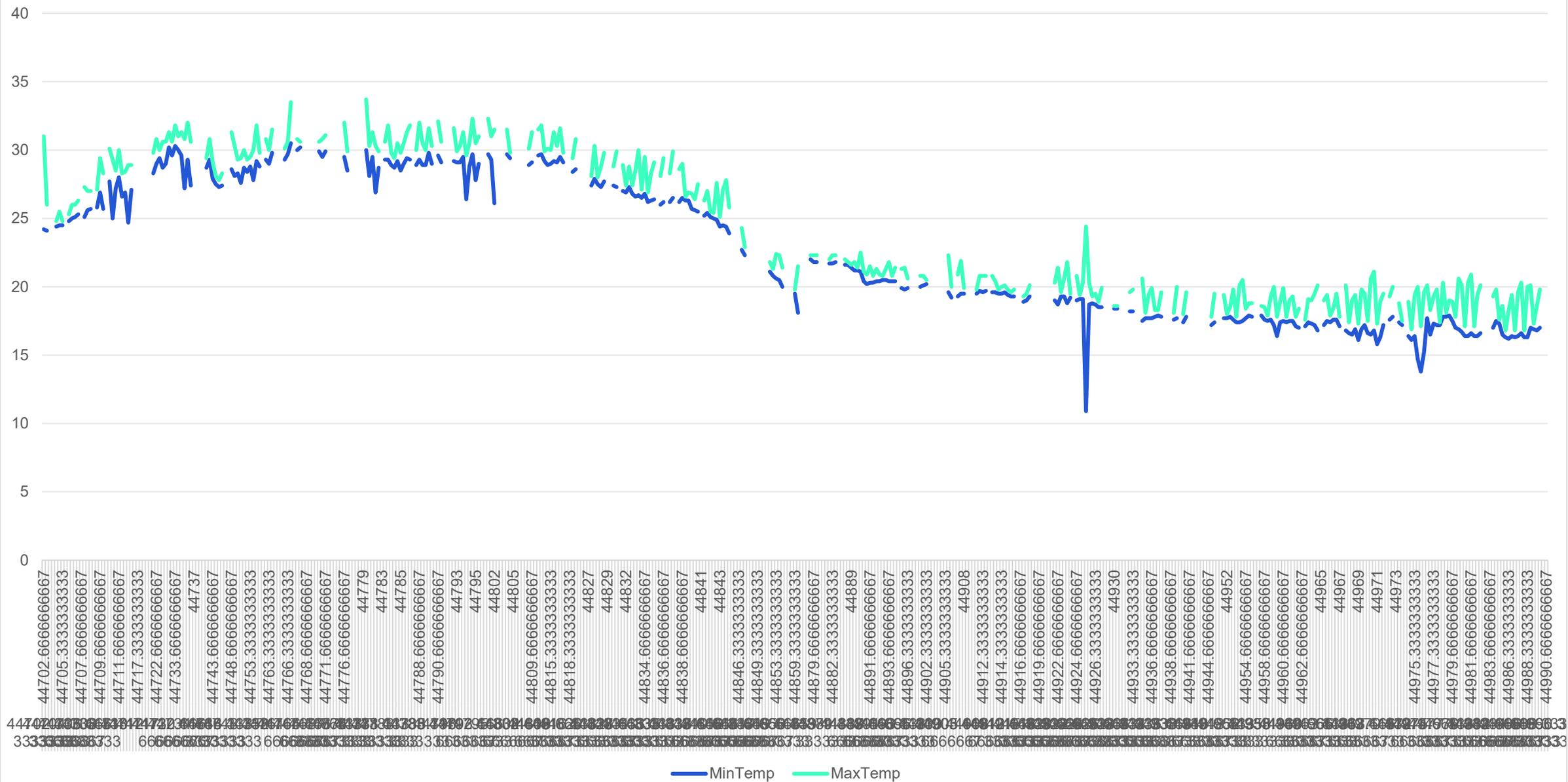


The longest distance reaches 13,500 km for the tracking period exceeding 291 days.

MaxDepth (m)



海龟生活水层温度变化 The temperature changes of the water layer where sea turtles had lived (°C)



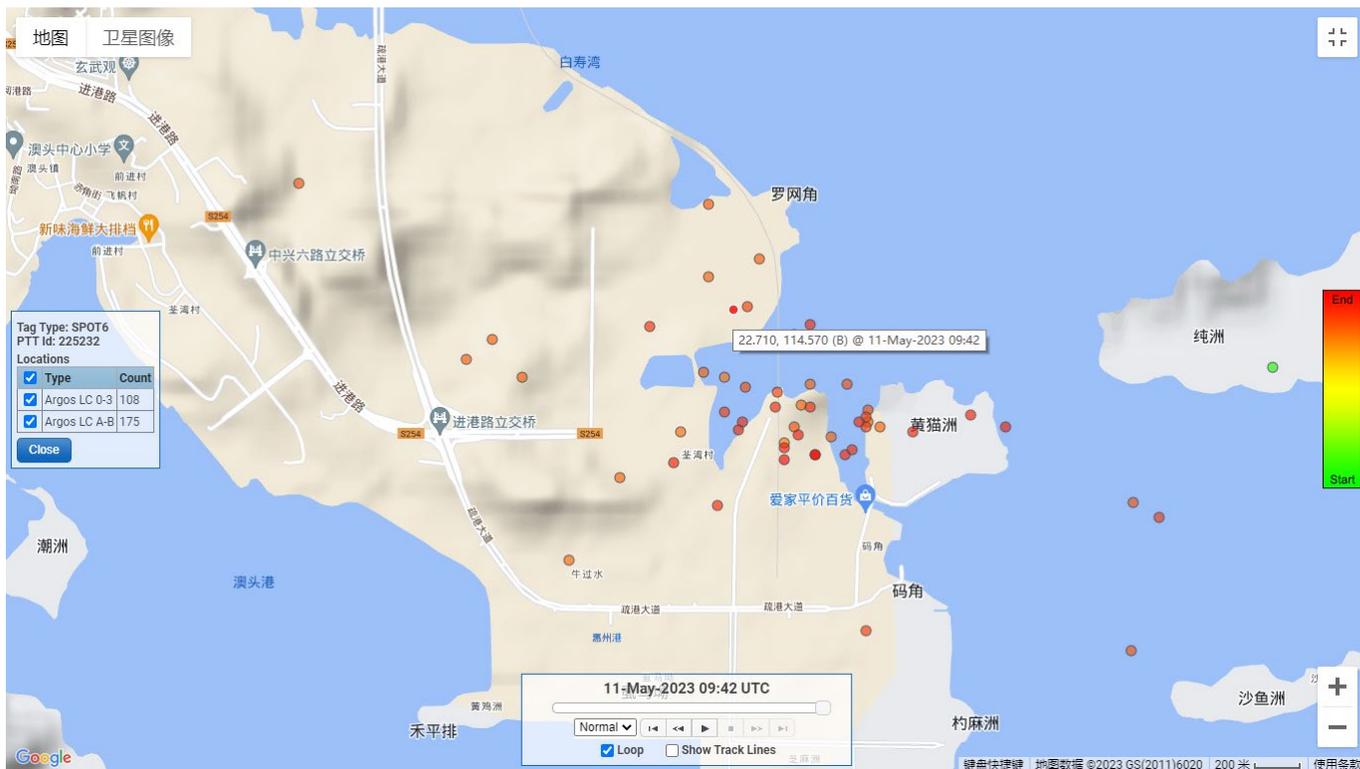
6.海龟救护

6. Turtle rescue

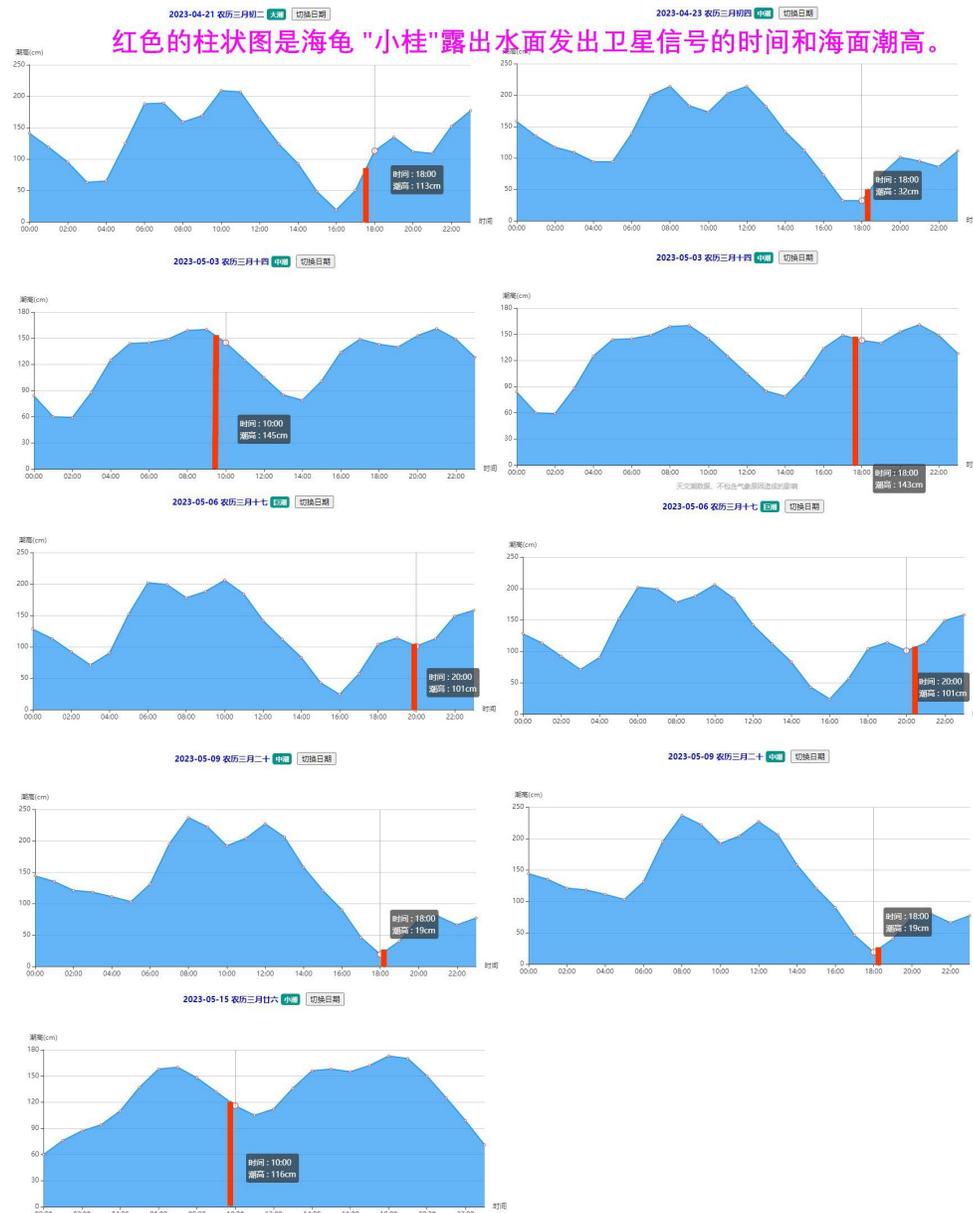


6.海龟救护

6. Turtle rescue



红色的柱状图是海龟 "小桂" 露出水面发出卫星信号的时间和海面潮高。



6.海龟救护 6. Turtle rescue



6.海龟救护

6. Turtle rescue



Sea Turtle Rescue Center



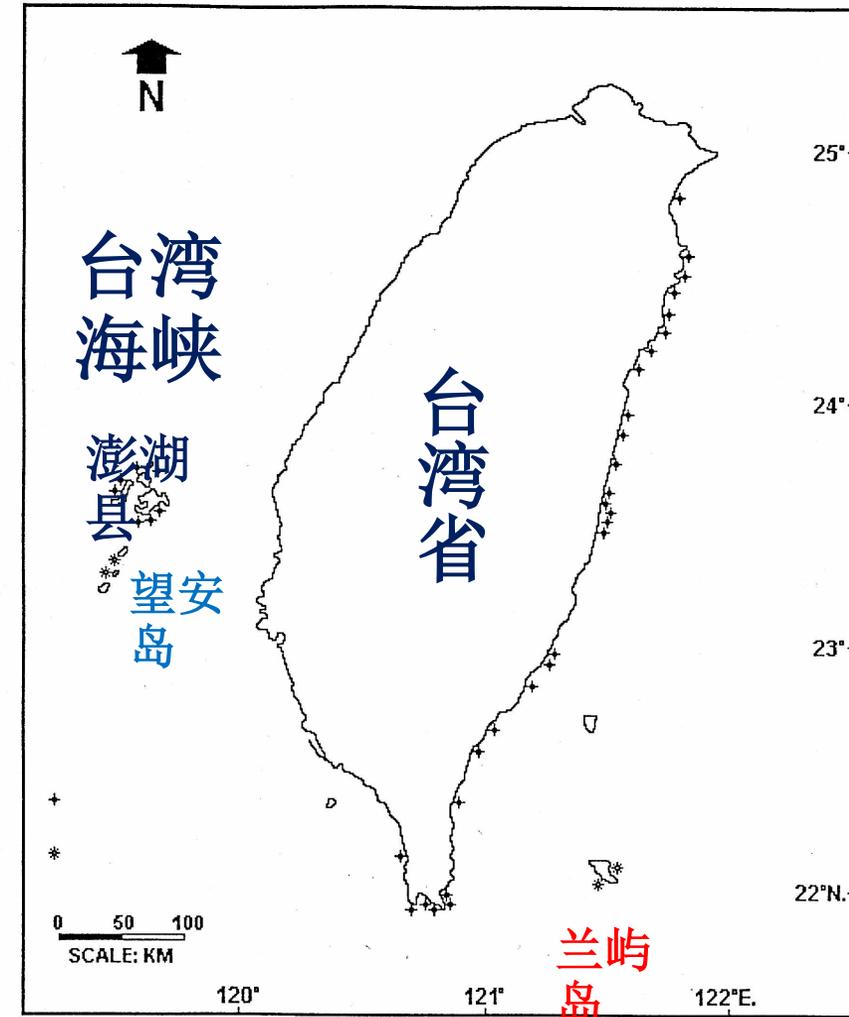
PART 03

**International
exchanges and
Resource
investigation**

From June to September in 2007, I conducted research and conservation activities in Penghu's Wang'an and Lan'yu Islands, focusing on protecting sea turtle egg-laying.



Wang'an Green Sea Turtle Conservation Center in Taiwan Province



six beaches of Wang'an Island



The spawning beaches of Lanyu Island

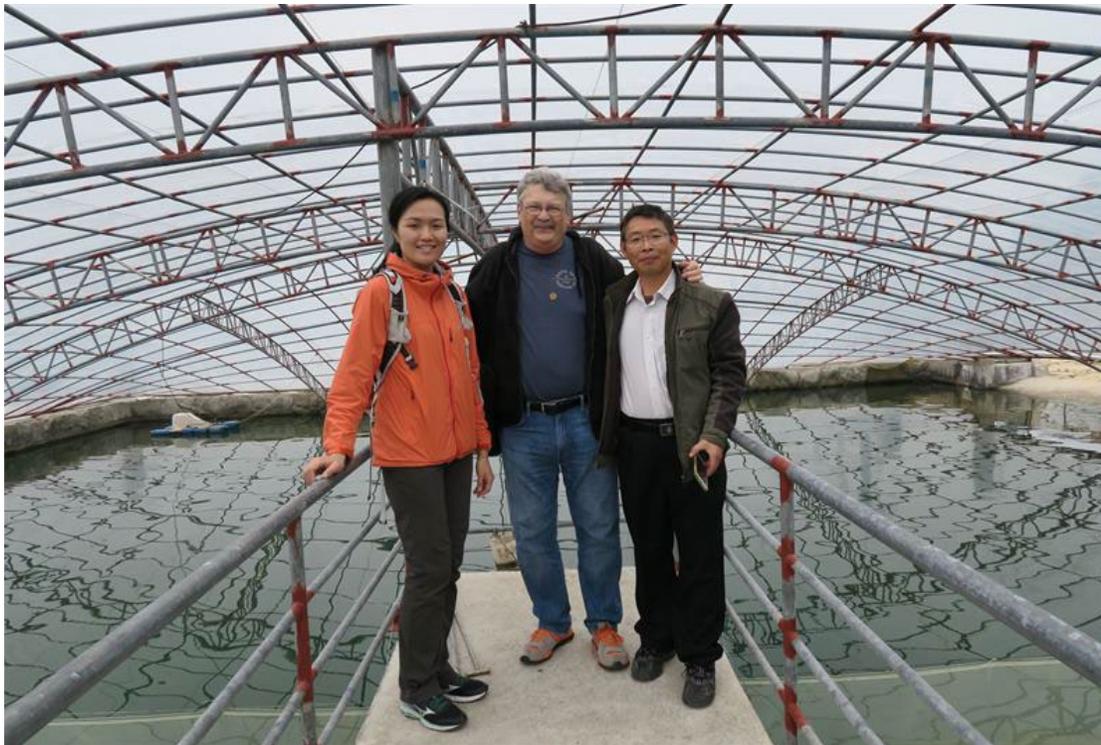


In October 2011, we went to the Turtle Farm in the Cayman Islands (British Overseas Territory) for an investigation and study.
In August 2014, we went to Hawaii, USA to attend the International Conference on Sea Turtle Feeding Ecology.



2017.3邀请专家前来指导人工繁殖工作 (端金霞 拍摄)

Invited experts to guide the captive turtles breeding work in March 2017



In February 2018, I participated in the 38th International Conference on Sea Turtle Biology Conservation held in Kobe, Japan, and presented the paper "Research on Artificial Breeding of Sea Turtles in China"



第38届世界海龟生物学保护大会(2018.2日本神户)

In March 2019, I participated in the "Rare and Endangered Marine Species Trade Seminar" held by the University of Hong Kong and delivered a presentation titled "The Current Status and Threat Factors of Sea Turtles in China"



Visited Miaowan Island twice



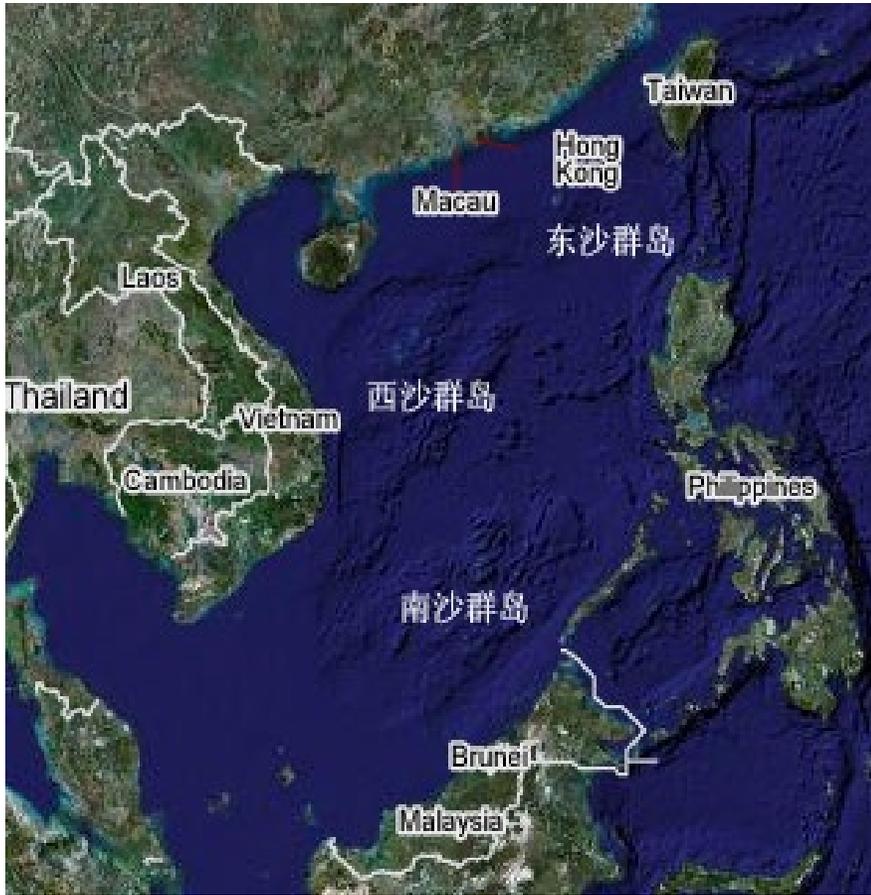
In August 2020 and August 2022, we visited Miaowan Island in Zhuhai twice. Both times, we discovered that green sea turtles (*Chelonia mydas*) had laid eggs, and we also observed signs that Common Water Monitor (*Varanus salvator*) were stealing the turtle eggs. We suggest establishing the Zhuhai Sea Turtle Conservation Management Station.



Apart from Zhuhai, in recent years I have also conducted investigations into the sea turtle resources in eastern Guangdong, western Guangdong and Guangxi.

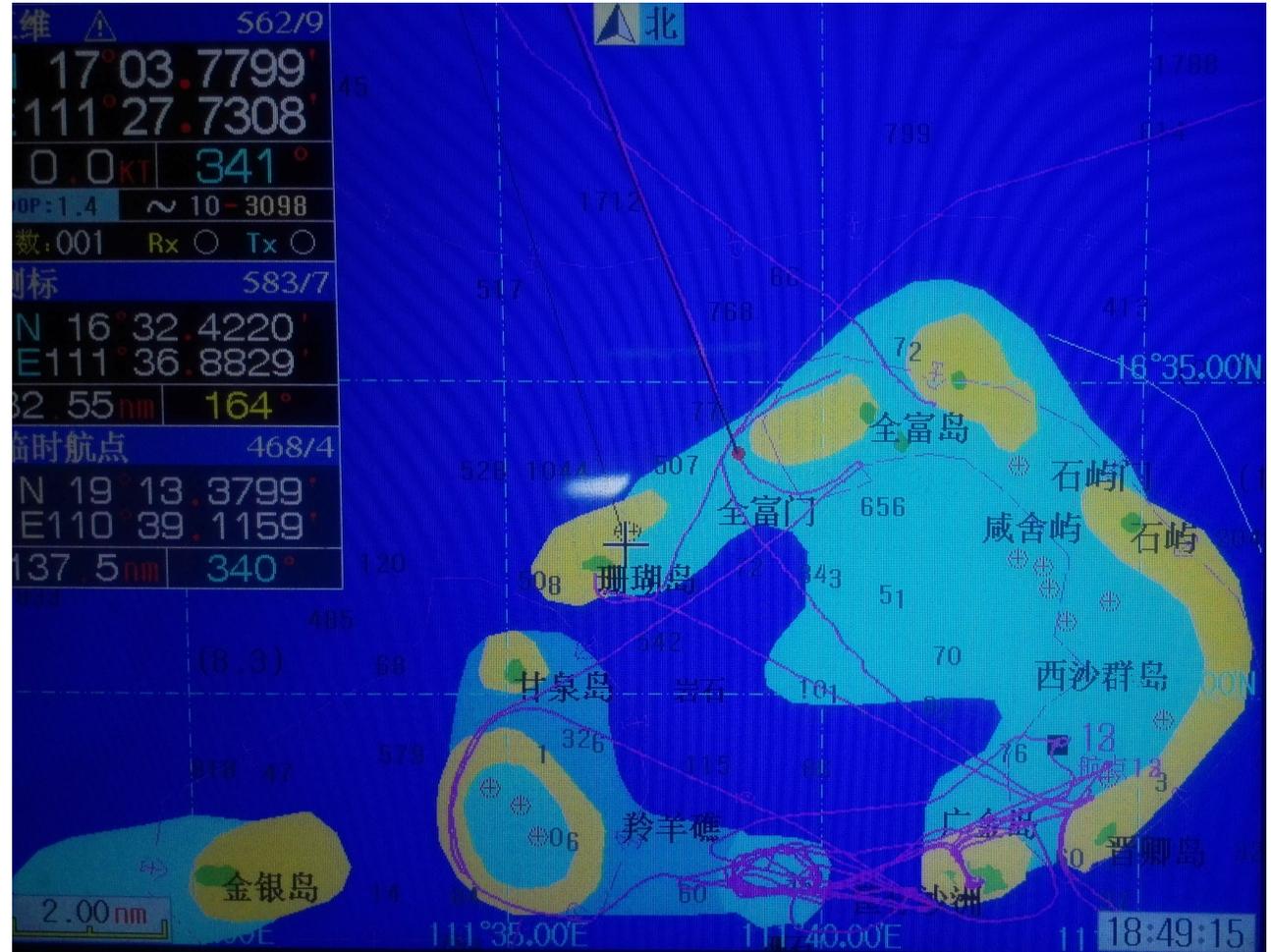


Three trips to the Xisha Islands



In January 2016, I traveled alone on a 100-ton fishing boat from Tanmen Port in Hainan to the Xisha Islands (Yongle Islands) to conduct nearly half a month investigation and assessment of sea turtle protection. I distributed several hundred brochures to raise public awareness of sea turtle protection.

- 二级
- 三级
- 四级
- 五级





混獲海龜殺手

BY-CATCH

延繩釣是造成海龜意外捕獲及死亡的主因
 日本延繩釣在西北太平洋及南中國海的海龜混獲量為每年
 21200頭，其中12300頭會因混獲而死亡。常見の種類
 包括：綠海龜、赤蠟龜、玳瑁、蠟蠟龜及革龜等五種

如何減少海龜混獲？

1. 裝置魚蝦拖網或底拖網上的「海龜脫逃器(TED)」
2. 禁漁期、定時流網、在延繩釣上使用18吋的大型圓鈎
3. 海龜混獲時採用救人道的脫鈎法
4. 增加船員的靈敏性及操作技術
5. 充實的混獲資料收集

海龜脫鈎器 18吋圓鈎



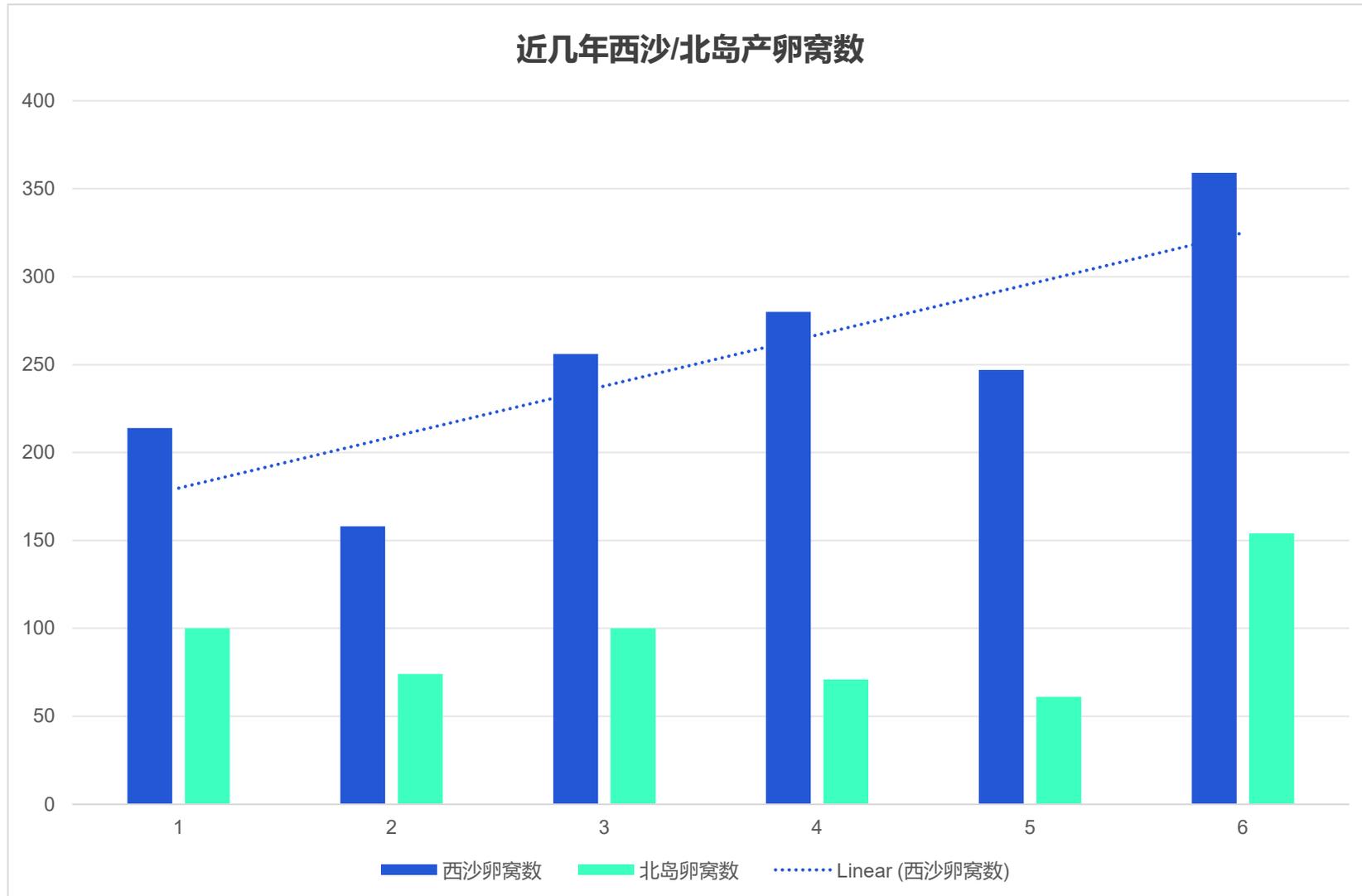
From April 2025 to May 2025, after participating in the large-scale release of sea turtles on Yongxing Island, I went to the North Island and Zhao Shu Island of the Qianling Islands to inspect the turtle egg-laying situation and the growth of seagrass and coral. I spent nearly a month conducting research in the Xuan De Islands.



From August 2025 to September 2025, I traveled to various places in Hainan to advance the research progress of the Beidou beacon and conducted an investigation of the turtle resources on some islands in the Xisha Islands. This lasted for a total of 18 days. On Ganquan Island, I was fortunate enough to witness the mother turtle laying the 69th clutch of eggs.



The number of spawning nests in Xisha Islands/Northern Island in recent years



**The road ahead is still very long.....
Please give me some advice! Thank you!**



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