

#### ● 任務職掌

107 年 4 月 27 日院臺字第 10701725741A 號公告,海洋委員會海 洋保育署為《海洋污染防治法》及《野生動物保育法》之海洋野生 動物分項主管機關,並承接《文化資產保存法》之海洋自然地景與 自然紀念物相關業務。

#### 本署掌理事務

- 海洋生態環境保護之規劃、協調及執行。
- 海洋生物多樣性保育與復育之規劃、協調及執行。
- 海洋保護區域之整合規劃、協調及執行。
- 海洋非漁業資源保育、管理之規劃、協調及執行。
- 海洋污染防治之整合規劃、協調及執行。 • 海岸與海域管理之規劃、協調及配合。
- 海洋保育教育推廣與資訊之規劃、協調及執行。
- 其他海洋保育事項。

#### ● 中長程計畫

# 處計畫

測,落實海洋污染應 及微型塑膠之調查 育海洋生態」、「強化 變機制,提升船舶事 與監控;推動環保 棲地保護」及「深耕 故預防及應變能力, 艦隊以及潛海戰 民力參與」,並具體 補助地方政府清除海 將,辦理淨海活動, 落實於 11 項工作項 漂(底)垃圾及環境 即時清除海漂(底) 目。 教育推廣,維護海域 垃圾。 環境。

#### 109-112 年度 109-112 年度 110-113 年度 海洋污染監測與應 海岸清潔維護計畫 海域生態守護計畫

強化海域環境水質監 辦理海洋廢棄物以 三大執行策略:「復

#### ● 組織架構

綜合規劃組

## (海洋環境管理組) (海洋生物保育組)

防治管理等業務。

動施政計畫、制定 護、環境監測、污 主軸,負責海洋物 相關法令規定,並 染防治,以及重大 種多樣性之保育、 術交流等項目。

負責政策整合及推 負責海洋水質維 以保育海洋生物為 海洋污染之應變協 復育,以及外來種

#### 十三個海洋保育站

於各保育站範圍內,由海洋保育巡查員推動下述各項工作:

野生動物擱淺救援以及野生動物保育法相關案件查核等。

- 海洋保護區調查及評估,以及協助處理違規案件及巡查。
- 海洋保育教育推廣,包括學校、社區及海洋驛站展示區教育推廣。 • 海洋生物多樣性巡護,包括鯨豚觀察員查核、友善釣魚調查、海洋
- 海洋環境管理,包括海洋污染稽查及協助告發、海漂垃圾調查、海 洋廢棄物清理相關事務。

#### ● 未來展望

全球生態環境面臨氣候變遷 等變化,生態系劣化與生物 多樣性減少議題需要各界共 同面對。如何對於公共資源 採取合理明智利用,更需要 智慧。



海洋需要你我共同守護,借鏡聯合國永續發展目標以及棲地復育十年 計畫,本署將與各界合力執行向海致敬計畫。秉持三大施政目標:「潔 淨海洋」、「健康棲地」及「永續資源」,為海洋持續奮鬥,為臺灣、 為國人守護海洋生態,確保海洋資源永續發展。

# ● 環境監測

陸域污染物可能經由河川匯流與遊憩進入海域,進而影響海域水 質,加上氣候暖化導致海水溫度提升、酸化,藉由水質監測掌握 可能污染源,有利源頭管理。

潔淨海洋 類防海洋污染 減少海洋廢棄物

科技監測油污染

#### 環臺海域

依「海域環境監測及監測站 當有油污外漏疑慮之船難發 設置辦法」,於臺灣本島與澎 生,利用油污染擴散模式模擬 湖群島、金門、連江等海域可能污染範圍,倘有需要,輔 設置 105 處海域監測站,進 以海洋污染雷達監測車,藉由 行 pH 值、溶氧、重金屬項目 雷達接收海面油污之回波,計 等 22 項水質監測,按季公布 算溢油分布範圍,以快速掌握 監測結果,每年出版年報, 海洋油污染事件。 並補助地方政府就重要海域 設置監測站。

#### 海洋廢棄物

利用穿越線等科學調查以及 公民科學家回報方式,進行 海漂垃圾、海底垃圾、海水 以及海洋生物之微型塑膠含 量調查。

#### 其他水質監測

為提供民眾遊憩健康,針對 6 處熱門海灘,評估水質分級 為優良、普通及不宜親水活 動三個等級,並掌握臨海可 能影響海域水質之污染源。

#### 海洋污染防治法

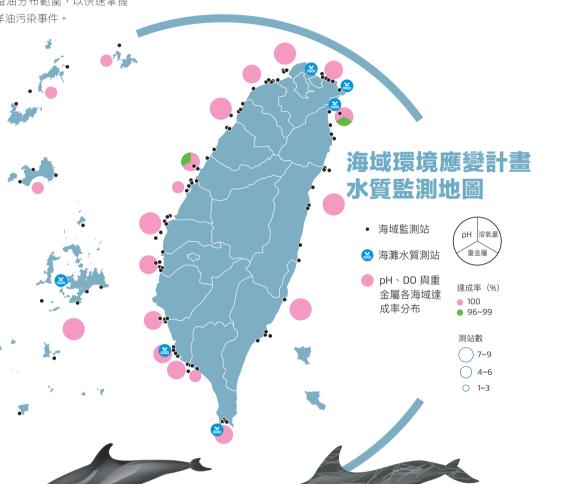
- 重大海洋油污染緊急應變計畫
- 指定公告海水採樣分析方法
- 公告離岸風電業者為海洋污染防治法第 13 條之公私場所

## 重大海洋油污染緊急應變計畫

- 培育相關人力
- 建立應處標準作業流程
- 海洋油污染發生當下即刻應變作為

## 海洋環境稽查與治理

- 油輸送許可業者現地查察
- 縣市政府海污應變及港口稽查
- 海廢治理平臺
- 環保艦隊/潛海戰將



#### ● 海洋保護區調查 每年調查至少20處環島海域以及50處近岸海域,蒐集環境參

數、浮游動植物、仔稚魚、海洋微塑膠、底棲底泥生態等海域

生態資料,利用新興技術及整合式研究方法。

馬祖列島燕鷗保護區

連江縣

臺灣海洋保護區分布圖

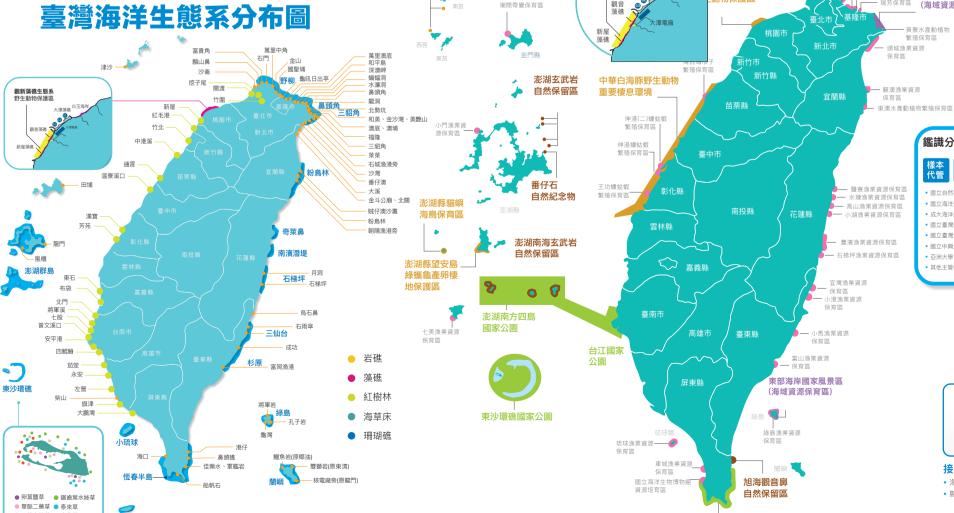
● 環境監測/生態系盤點 ● 落實執法

減緩天然災害的重要功能。經盤點 與地方政府合作成立巡守隊

- 珊瑚礁、海草床、紅樹林等生態系 海洋保護區整合平臺 扮演保存生物多樣性、防護海岸、 • 海洋保護區訪查/專案輔導
  - 保護區網站

健康棲地/ 建構海洋保護區網絡 復育海洋生態系

# 初步記錄 234 處生態熱點。



#### 4 國家公園

野生動物保護區

鑑識分析組 心心

樣本 鑑識 病理 代管 分析 解剖

國立海洋生物博物館

國立臺灣海洋大學

• 國立臺灣大學獸醫專業學院

國立中與大學獸醫學院

其他主管機關委託單位

Co

118

接獲通報

• 縣市政府專線

墾丁國家公園

基隆市望海巷潮境 東北角暨宜蘭海岸

— 基隆市水產動

- 5 野生動物保護區、野生動 物重要棲息環境
- 30 水產動植物繁殖保育區等

現場救援組

海洋保育署

海保救援網

教育宣導組

媒體消息 輿論 教育 發布 回應 訓練

啟動救援

• 各縣市政府

• 海保署巡查員及行動小組

海巡署

4 自然保留區、自然紀念物

2 海域資源保護區

## ● 科學監測

MARN 照護收容組 <sup>‡</sup>

• 成大海洋生物及鯨豚

• 國立臺灣海洋大學

• 澎湖海洋生物研究中

• 金門縣水產試驗所

現場處理

各縣市政府

• 海保署巡查員及行動小組

• 其他民間協力單位

• 各縣市政府委託單位

野放

盤點海洋保育類野生動物名錄之 141 種以上物種、瀕危野生 動植物國際貿易公約 (CITES) 附錄之海洋野生生物、及經國 際自然保育聯盟 (IUCN) 評估為瀕危、易危之海洋野生動物。

永續資源/ 保育瀕危物種 永續海洋資源

## 野生動物保育法

- 海洋野生動物保育諮詢委員會
- 野生動物保育規範
- 海洋野生動物保育管理及維護
- 海洋野生動物輸出入審查

**第** 海洋野生動物擱淺救援

後續追蹤

照護收容組

• 海洋保育署 • 鑑識分析組

· 各縣市政府 · 教育宣傳組

• 整備相關中心及急救站

• 人力培訓

## • 鯨豚觀察員制度

- 白海豚保育計畫 • 物種保育計畫
  - 大潭藻礁保護 珊瑚復育

友善賞鯨

• 友善釣魚行動計畫 非法查緝

海洋生物資源保育與復育

## 文化資產保存法

- 海域自然地景及自然紀念物定義
- 海域自然地景及海域自然紀念物審議會

# 合作夥伴

#### ● 國際參與及雙邊合作

積極參與海洋環境保護及生物保育相關 國際組織及會議,與國際接軌及合作。

- 信天翁與水薙鳥保育協定
- 亞太經濟合作海洋與漁業工作小組
- 瀕危野生動植物國際貿易公約
- 我們的海洋會議
- 與美國、帛琉、日本、歐盟等進行雙邊會議 或互訪,與國際友人交流海洋保育方法,以 掌握國際管理脈動

● 民力參與在地守護

推動海洋保育在地守護計畫,與地方社區結合,獎勵及補助個人、社 區、團體及企業參與海洋保育事務,從「海洋棲地復育行動」、「海洋 公民科學家」、「友善釣魚」、「推廣海洋保育行動」及「海洋環境維 護」五大主題,結合產官學相關人士,推動公民參與海洋事務。

於 110 年制定「海洋保育署海洋保育志願服務計畫」, 招募 60 名志 工,投入海洋保育教育推廣及海域環境維護志願服務工作,藉以提升 全民對海洋生態保育與海洋資源永續之認識。

#### ● 海洋保育資訊公開

建立海洋保育網,蒐納本署及相關機關、團體及環評案件之海域生態 及水質調查資料、統整垂釣回報成果、海洋生物目擊及潛海戰將等公 民科學家資料。

#### ● 海洋保育教育推廣與人才培訓

108 年 4 月 22 日與國立海洋科技博物館、國立自然科學博物館及國 立海洋生物博物館簽署合作備忘錄,持續與三個博物館進行各項海洋 保育教育推廣活動。

藉由出版海洋生物與生態系藝術月曆、保育政風整合型繪本、海洋保 育類野生動物圖鑑、專題型季刊,辦理小海龜的逆襲、臺灣鯨讚工作 坊推廣,讓海洋保育知識一點一滴進入人心。

與地方政府或民間團體合作,辦理各類專題講座、教育推廣活動,例 如海洋保育面面觀、人魚家族說故事、國家海洋日等。

成立海洋保育教育中心,辦理海洋保育新創活動,導入海洋保育教



### **ABOUT TAIWAN'S OCEAN**

Pacific Ocean (the Philippine Sea), the Bashi Channel, the Sou China Sea, the Taiwan Strait, and the East China Sea. It is locate ecosystems, such as coral reefs, rocky shores, mangroves, seagrass beds, estuaries, beaches, lagoons, and algal reefs,

marine life in Taiwan's coastal waters, including 3,162 species of fish, 884 species of coral, 2,061 species of

According to the Law on the Exclusive Economic Zone and the Continental Shelf of the Republic of China economic zone extends 200 nautical miles and the torial sea is approximately 62,550 km<sup>2</sup>. The area County, Lienchiang County and Taiping Island is 1,923 km². In order to protect marine resources 5,264 km<sup>2</sup>, accounting for 8.16% of the area of



7F., No. 25, Chenggong 2nd Rd., Qianzhen Dist., Kaohsiung City 806614, Taiwan (R.O.C.

Tel: +886-7-3382057

Fax: +886-7-3381595

#### Duties

According to the announcement of the Executive Yuan, Yuan-Tai-Zi No. 10701725741A made on April 27, 2018, the OCA of the Ocean Affairs Council is the competent authority for implementing the Marine Pollution Control Act and the category of marine wildlife specified in the Wildlife Conservation Act. The OCA is also in charge of the businesses relating to marine natural landscapes and natural monuments as specified in the Cultural Heritage Preserva-

#### Businesses Handled by the OCA

- Planning, coordination, and implementation of marine ecological and environmental protection.
- Planning, coordination, and implementation of marine biodiversity conservation and restoration.
- Planning, coordination, and implementation of marine protected areas.
- Planning, coordination, and implementation of conservation and management
- Planning, coordination, and implementation of marine pollution prevention.
- Planning, coordination, and cooperation in matters relating to coastal and sea area management.
- Planning, coordination, and implementation of education extension and information on marine conservation
- Other matters relating to marine conservation

#### Main Strategic Plans

of marine nonfishery resources.

## From 2020 to 2023 From 2020 to 2023 From 2021 to 2024

Marine Pollution Moni- Coastal Cleaning and Taiwan Marine Ecosystoring and Contingency Maintenance Plan

mental education, in order to

safeguard the marine

Taiwan's Marine

**Protected Areas** 

Yehliu Aquatic Plants and Animals

The Plan is aimed to enhance — In respect to the governance — It includes three major strate monitoring of water quality in — of marine debris, the Plan — gies: restoration of marine the marine environments, implement marine pollution contingency mechanisms, prevention against and fleet and volunteer cleanup of 11 items esponse to vessel accidents, divers to conduct sea cleanup subsidize local governments activities for timely removal n drifting/seabed marine of marine debris. debris and extend environ

## involves investigation and ecosystems, enhancement of monitoring of marine debris habitats protection, and with wisdom. and microplastics, promotion promotion of citizen particiimprove the capacity of of environmental protection pation, with the formulation

tem Protection Plan

#### Organizational Chart

#### Policy Planning Division

Marine Environment Marine Wildlife **Management Division** 

It is responsible for policy 
It is responsible for seawa integration and promotion ter quality maintenance, of policy implementation plans, enacting relevant pollution prevention, and laws and regulations, and contingency coordination promotion of international and supervision of severe cooperation and technical marine pollution. exchanges.

wildlife, this Division is environmental monitoring, vation and restoration of diversity of marine species and the control and management of invasive alien species.

**Conservation Division** 

#### **Thirteen Marine Conservation Stations**

The marine conservation rangers are responsible for promoting the following work within the range of each station:

- Investigation and evaluation of marine protected areas and assistance in handling illegal
- cases and patrolling Extension of marine conservation education, including education extension at schools,
- communities, and marine station display areas. Conducting patrols for conserving marine biodiversity, including inspection by cetacean observers, friendly angling investigations, stranded marine animal rescues, and investiga-
- tion of cases subject to the Wildlife Conservation Act. • Implementing marine environment management, including marine pollution inspection and

#### assistance in reporting, investigation of drifting marine debris, and the work relating to marine debris cleanup.

#### Prospects

The ecological environments in the world are facing climate changes, ecological deterioration, and loss of biodiversity, and therefore, aware ness from all sectors is crucial. There is the need of using public resources in a rational manner, and more so

The ocean needs the protection from all of us. With the UN Sustainable Development Goals and the Ecosys-

mind, the OCA will work with all sectors to implement the Project on Salute to the Ocean. Focusing on the three policy goals: Clean Ocean, Healthy Habitats and Sustainable Resources, the OCA will continue to strive tirelessly for the sustainability of the ocean, whereby safeguarding the marine ecology for the Taiwan and its entire citizens, to ensure sustainable development of marine

# Prevent marine pollution Reduce marine debris

#### Environmental Monitoring

Land-based pollutants may enter the sea via rivers confluence and recreational activities, whereby affecting water quality of the sea. Moreover, global warming leads to increased seawater temperature and acidification. Through monitoring o the seawater quality, the pollutant sources can be identified to facilitate source

**CLEAN OCEAN** 

#### Seas Around Taiwan

According to the Sea Areas Environment Monitoring and Monitoring Stations Establishment Regulation 105 sea monitoring stations have been established in the sea areas around the main island of Taiwan Penghu archipelagos, Kinmen, and Lienchiang, to monitor 21 water quality indicators, such as pH, dissolved oxygen and heavy metal contents. Monitoring results are seasonally announced, with publication of annual reports every year. Subsidies were given to local governments to establish monitoring stations in crucial sea

#### **Marine Debris**

Scientific investigations such as transect methods and citizen scientists reports are used to investigate microplastic contents in floating marine debris, marine debris on seabed, in seawater, and in the body of marine wildlife

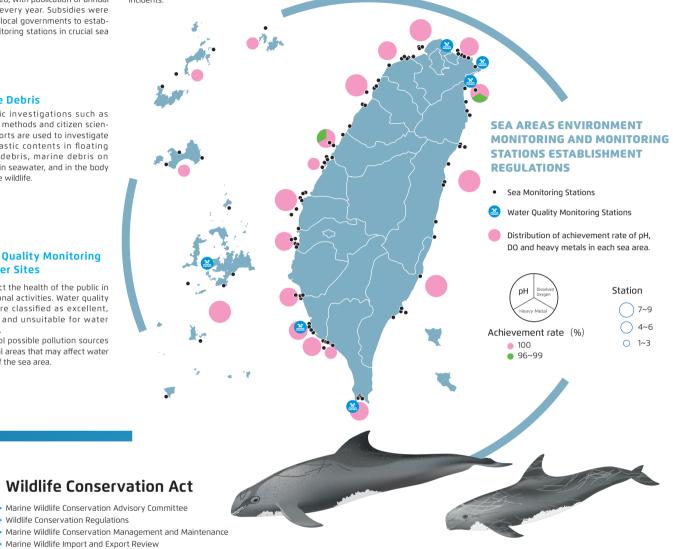
#### **Water Quality Monitoring** at Other Sites

To protect the health of the public in recreational activities. Water quality levels are classified as excellent, normal, and unsuitable for water

activities. To control possible pollution sources at coastal areas that may affect water quality of the sea area.

In case of a shipwreck which poses the concern of oil spill, simulation of conducted through OILmap oil pollution diffusion model. If necessary, vehicles will be used to calculate the oil spill distribution by receiving echoes of oil on the sea surface, thereby facilitating rapid understanding of the marine oil pollution

Marine Debris Governance Platform.



# **HEALTHY**

Build a network of marine protected areas Restoration of marine ecosystems

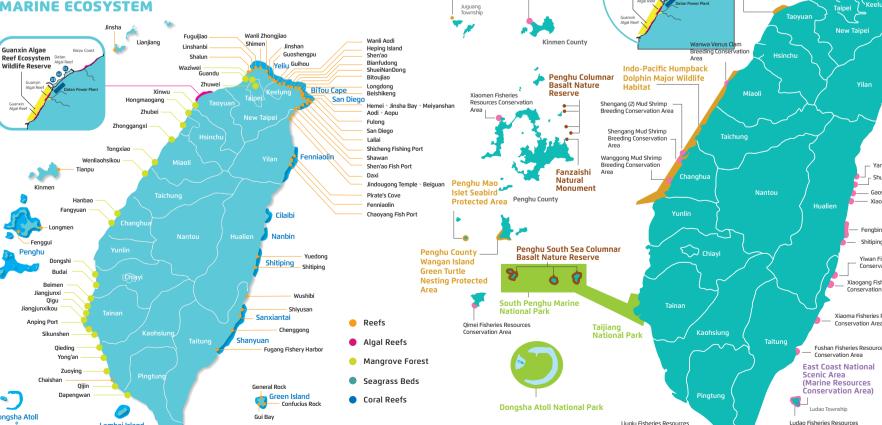
#### Ecosystem ReviewLaw Enforcement

reefs play an important role in preserving

seagrass beds, mangrove forest, and algal Survey of Marine Protected Areas / Case Guidance Guidance to Local Governments ing natural disasters. After inventory, 234

#### ecological hotspots were initially recorded.

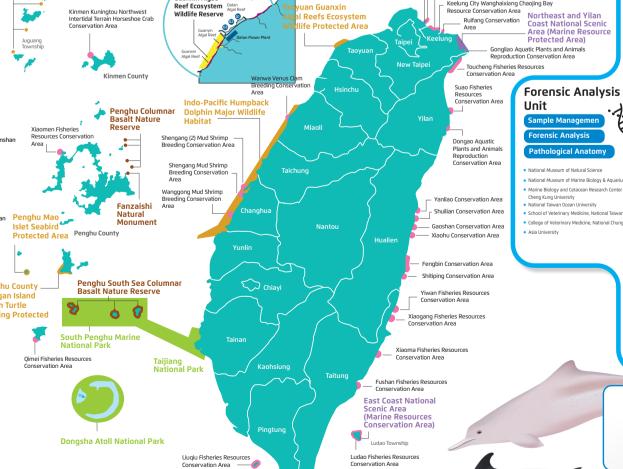
#### **DISTRIBUTION MAP OF TAIWAN'S MARINE ECOSYSTEM**



#### Survey of Marine Protected Areas

Surveys were conducted in at least 20 sea areas around the island and 50 near-shore areas to collect environmental parameters, phytoplankton, larvae and juvenile fish, marine microplastics, benthic mud ecology, and other marine ecological data, using emerging technologies and integrated research methods

#### **DISTRIBUTION MAP OF TAIWAN'S** MARINE PROTECTED AREAS



#### 4 National Parks

Wildlife Protected Areas, Major Wildlife Habitat

Fisheries Plants and Animals Reproduction Conservation Areas, etc.

A Nature Reserves, Natural Monument

Marine Resources Protected Areas

Onsite Rescue Unit

**MARN** 

**Marine Animal** Rescue Network

County and city governments

Advocacy Unit

69

ceiving of reports

County and city government hotlines

# **SUSTAINABLE** Conserving endangered species Sustainable marine resources

Care and Shelter

## Scientific Monitoring

**Animal** 

County and city governments

· Other private cooperative bodies

Set up Relevant Centers and Rescue Stations

County and city governments

· Care and Shelter Unit

Forensic Analysis Unit

Standard Operating Procedure

There are more than 141 marine wildlife species listed as protected marine species, and listed on CITES appendices, as well as assessed by IUCN as endangered or vulnerable. Priority nas been given to undergo systematic scientific investigation and by means of citizen scientists, to assess the resource status of Chinese white dolphins, cetaceans, sea turtles, cartilaginous fishes, seabirds, corals, and shellfish around

#### Cetacean Observer System Investigation of Illegal Activities · Friendly Angling Action Plan

Cultural Heritage

and Restoration

Humpback Dolphin

Species Conservation Plans

Conservation Plan for the Taiwanese

 Definition of Marine Natural Landscapes and Marine Natural

 Marine Natural Landscapes and Marine Natural Monuments

Friendly Whale Watching

Coral Restoration

Datan Algal Reef Protection

# Preservation Act

Marine Living Resources Conservation

#### Publicity of Marine Conservation Information

Public Participation and Local Protection

promoting public participation in marine affairs.

ecology and the sustainability of marine resources.

Marine conservation protection projects were promoted in cooperation with local

communities and rewards and subsidies were provided to individuals, communities, civil

groups, as well as private enterprises for participating in the work of marine conserva-

tion, and with the five themes, namely, marine habitat restoration, marine citizen scien-

tists, friendly angling, advocacy for marine conservation, and protection of marine

environments, to incorporate people from the government, academia, and industries in

In 2021, the Ocean Conservation Administration's Plan on Marine Conservation Volun-

teer Service was established to recruit 60 volunteers for engaging in the work of marine conservation education extension and the service of volunteer for marine environment

protection, in order to improve the public awareness on the conservation of marine

The "iOcean" website was established to compile data on marine ecology and wate quality survey collected by the OCA, related agencies and civil groups, as well as angli reports, and other information from citizen scientist and volunteer cleanup divers or marine wildlife sightings

#### Extension of Marine Conservation **Education and Elite Training**

On April 22, 2019, the OCA signed memoranda of understanding with the National Museum of Marine Science & Technology, the National Museum of Natural Science, and the National Museum of Marine Biology and Aquarium for extending marine conservation education activities.

Artistic calendars with marine wildlife and ecology, conservation picture booklets, illustrated books about protected marine wildlife, and quarterly journals on special issues were published, and such workshops as "Baby Sea Turtle Strikes Back" and "Bravo Taiwan Cetaceans" were held, to broaden the knowledge of the public on marine conser-

The OCA has cooperated with local governments and civil groups in organizing seminars on marine conservation related topics, educational propaganda, and education extension activities, for example, the All Aspects on Marine Conservation Seminar, the Mermaid Family Story Telling, and the National Ocean Day, etc.

The Marine Conservation Education Center was established to organize innovative marine conservation activities and introduce marine conservation education

## Cooperation

related international organizations and meetings was promoted to keep track on the

- Asia Pacific Economic Cooperation, Ocean and Fisheries Working Group, APEC OFWG • Convention on International Trade in Endangered Species of Wild Fauna and Flora, CITES
- Our Ocean Conference, OOC
- Bilateral meetings and visitations with the United States, Palau, Japan, and the European Union were conducted, for exchanging marine conservation methods with international friends to understand the trends of international management.

# Rescue of Stranded Marine

## **PARTNERSHIP**

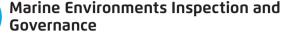
# International Participation and Bilateral

Active participation in marine environment protection and wildlife conservation international development and promote international cooperation.

- Agreement on the Conservation of Albatrosses and Petrels, ACAP



of the Marine Pollution Control Act.



- Onsite Inspection of Operators Permitted for Oil Transmission • Marine Pollution Contingency and Port Inspection of Local Governments
- Environment Protection Fleet / Volunteer Cleanup Divers

Marine Pollution Control Act Major Marine Oil Pollution Emergency Contingency Plan.

Designated announcement seawater sampling analysis method.

According to Article 13 of the Marine Pollution Control Act, which it was

deemed by that the locations for companies obtained letter of approval

from the Ministry of Economic Affairs to establish wind power offshore

systems  $\,$  were those public and private locations as provided in Article 13  $\,$ 

Major Marine Oil Pollution Emergency