



# Evolution of district marine policies in China

---The case of Shandong Province

**PICES-2018 Annual Meeting:**

Toward integrated understanding of ecosystem variability in the North Pacific

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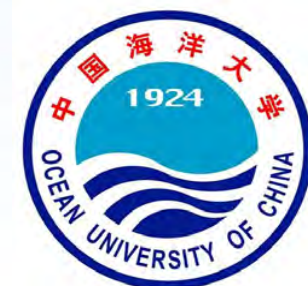
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# 1.Introduction

- Current research focused on comparing **Chinese marine economic policies** with **foreign policies**, or analyzing the **specific marine industry policies**.
- The analysis of **regional marine policies** and their **evolution** were rare.
- This paper focuses on the **regional marine policies** and **its evolution**, taking **Shandong Province** as an example.





- Shandong Province is one of **China's major marine provinces**, with an annual total marine economy output of **over one trillion RMB** since 2013, **ranking second** in the country for many years.



**the location of Shandong Province**

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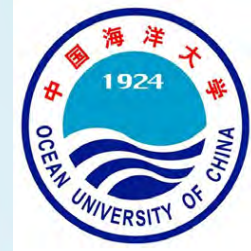
4 Evolutionary characteristics  
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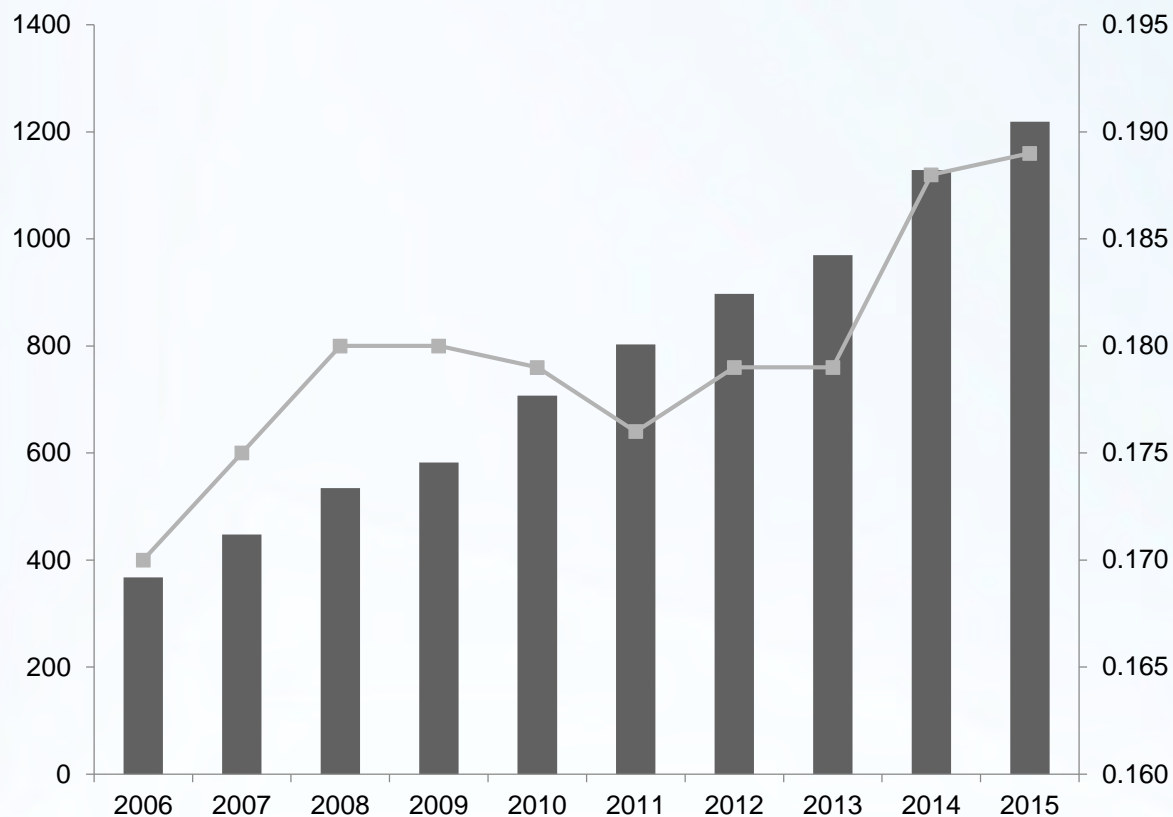
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■ Gross ocean product (GOP) of Shandong Province (billion RMB) —■ Proportion



## Gross ocean product of Shandong Province

Note: data from the China Marine Statistical Yearbook 2007-2016

In **2015**, the gross ocean product (GOP) of Shandong Province was over 1,220 billion RMB, thus accounting for **17%** of China's gross ocean product and ranking second in the country.

From 2011 to 2015, the province's GOP maintained an average annual **growth rate** of approximately **10%**, accounting for over **18%** of the province's GDP.



# Comparison of Shandong's GOP to the national GOP

**The proportion of primary, secondary and tertiary marine industry of Shandong was 6.8:44.5:48.7, 2015.**

	Gross ocean product (GOP)of Shandong Province (billion RMB)	Gross ocean product (GOP)of China (billion RMB)	Proportion
2006	367.9	2159.2	0.170
2007	447.8	2561.9	0.175
2008	534.6	2971.8	0.180
2009	582.0	3227.8	0.180
2010	707.5	3957.3	0.179
2011	802.9	4549.6	0.176
2012	897.2	5004.5	0.179
2013	969.6	5431.3	0.179
2014	1128.8	5993.6	0.188
2015	1219.3	6466.9	0.189

Source: China Marine Statistical Yearbook 2006-2016



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- According to the time sequence of policy promulgation, the marine policies of Shandong Province, which can be divided into **three stages** :
    1. the **fishery production and resource management** period(1988-1997)
    2. the **marine integrated utilization** management period(1998-2009)
    3. the **marine ecological management** period(2010-present)



# the fishery production and resource management period(1988–1997)

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Year	Policies
1988	Implementation of People's Republic of China <b>fisheries law measures</b> of Shandong Province
1992	Shandong Province <b>tidal flat aquaculture</b> management regulations Management measures of Shandong Province on the <b>special variety of marine fishery resources</b>

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# the marine integrated utilization management period(1998–2009)

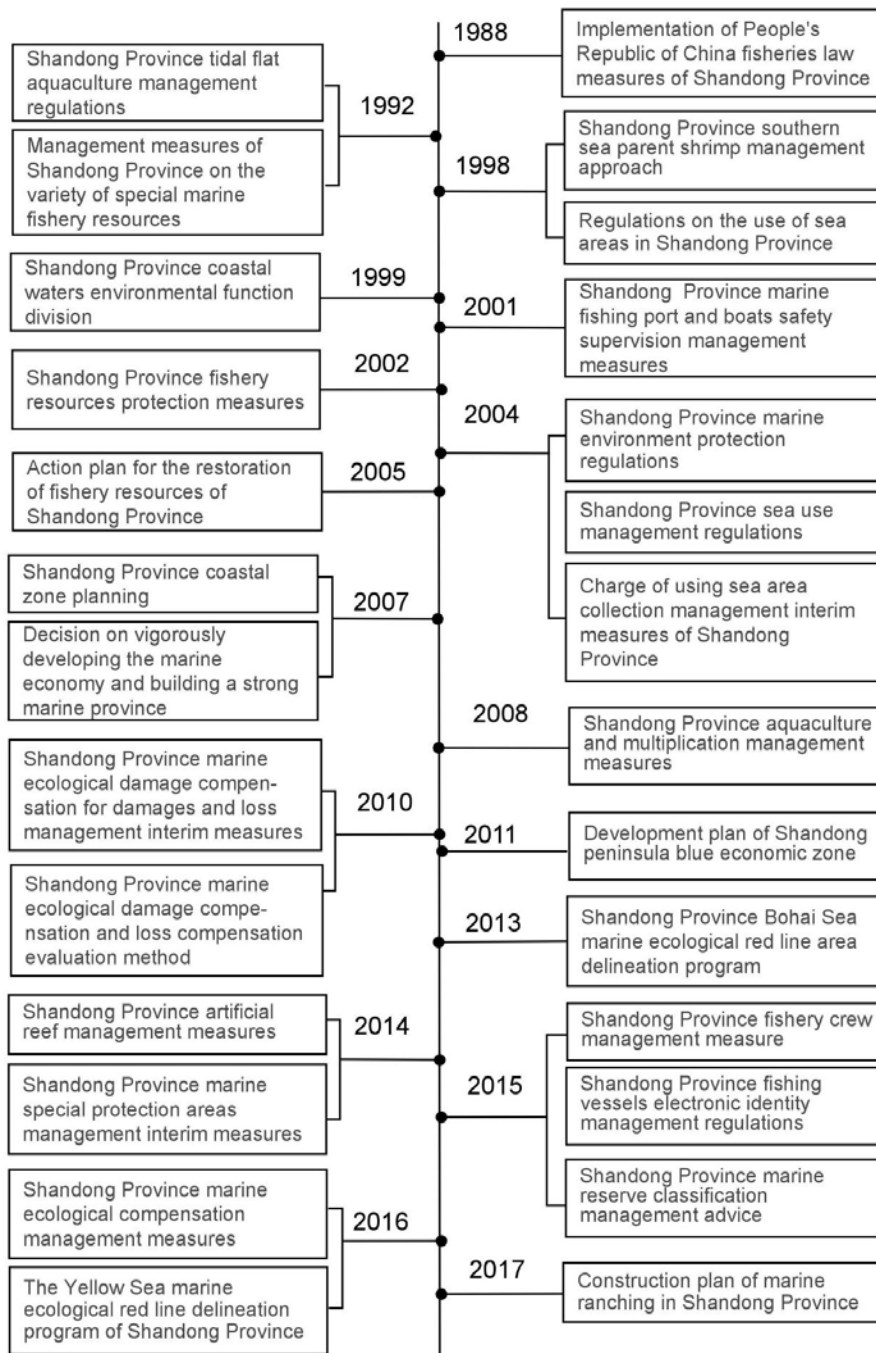
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- |      |  |
|------|--|
| 1998 | Shandong Province southern sea parent shrimp management approach<br>Regulations on the use of sea areas in Shandong Province   |
| 1999 | Shandong Province coastal waters environmental function division   |
| 2001 | Shandong Province marine fishing port and boats safety supervision<br>management measures  |
| 2002 | Shandong Province fishery resources protection measures  |
| 2004 | Shandong Province marine environment protection regulations<br>Shandong Province sea use management regulations<br>Charge of using sea area collection management interim measures of<br>Shandong province |
| 2005 | Action plan for the restoration of fishery resources of Shandong Province  |
| 2007 | Shandong Province coastal zone planning<br>Decision on vigorously developing the marine economy and building a<br>strong marine province   |
| 2008 | Shandong Province aquaculture and multiplication management measures   |
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## the marine ecological management period(2010-present)

- 2010** Shandong Province marine ecological damage compensation for damages and loss management interim measures  
Shandong Province marine ecological damage compensation and loss compensation evaluation method
- 2011** Development Plan of Shandong Peninsula Blue Economic Zone
- 2013** Shandong Province Bohai Sea marine ecological red line area delineation program
- 2014** Shandong Province artificial reef management measures  
Shandong Province marine special protection areas management interim measures
- 2015** Shandong Province fishery crew management measure  
Shandong Province fishing vessels electronic identity management regulations  
Shandong Province marine reserve classification management advice
- 2016** Shandong Province marine ecological compensation management measures  
The Yellow Sea marine ecological red line delineation program of Shandong Province (2016 ~ 2020)
- 2017** Construction plan of marine ranching in Shandong Province (2017-2020)



**Time axis** showing the starting point of each marine policy category of Shandong Province



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4.1 Marine policies that **promote the conservation of fishery resources** to ensure sustainable use

4.2 Marine policies for a **single industry to integrated ocean** management

4.3 Marine policy cooperating with **integrated marine policy and single industrial policy**

4.4 Marine policies from **marine environment protection to ecosystem management**

4.5 Attaching importance to the **development of marine science and technology**

4.6 A number of Shandong's marine policies are **national firsts** in their respective fields





## 4.5 Attaching importance to the **development of marine science and technology**

- Shandong has gathered over 30% scientific research and education agencies of China
- the number of researchers is above 50%.

## 4.6 A number of Shandong's marine policies are **national firsts** in their respective fields

- 2010 “Shandong Province marine ecological damage compensation for damages and loss management measures”

“Shandong Province marine ecological damage compensation and loss compensation evaluation method.”

- 2011, the “Shandong peninsula blue economic zone development plan”
- 2016, Shandong Province became the first in the country to complete the demarcation of a marine ecological red line.

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**5.1**

Requirements for serving the development of the marine economy

**5.2**

Requirements for improving the marine ecological environment

**5.3**

Requirements for increasing citizen participation in policy making

**5.4**

Requirements for evaluating the effectiveness of marine policies



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- This article summarizes a total of **29 marine policies** promulgated by the province since 1988-2017.
  - The evolution of Shandong's marine policies shows that regional governments are aware of **the differences in resources between land and sea areas** in terms of marine development and ocean management.
  - To realize the sustainable development of the marine economy, we should not only pay attention to the management of **a single marine industry but also attach importance to the marine environment and ecological conditions.**

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# Evolution of district marine policies in China: The case of Shandong Province



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### ABSTRACT

Shandong Province is among China's major marine provinces. The annual total output value of the province's marine economy has been ranked second in the country since 2013. This paper presents an evaluation of the marine district policies of Shandong Province. These policies can be divided into three stages according to the time sequence of policy promulgation: the fishery production and resource management period, the marine integrated utilization management period, and the marine ecological management period. The evolution of Shandong's marine policies was analyzed accordingly. Overall, the regional marine industry is on a good development track. However, many challenges remain regarding the formulation and implementation of the province's marine policies in the future.



# Thank you

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