



2015 NOWPAP International Coastal Cleanup and joint TEMM-NOWPAP Workshop on Marine Litter Management



Yantai, China 24-25 September 2015



NOWPAP

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2015 NOWPAP International Coastal Cleanup and Joint TEMM-NOWPAP Workshop on Marine Litter Management

Yantai, China, 24-25 September 2015

Organizers: -NOWPAP Regional Coordinating Unit (RCU)

- Ministry of Environmental Protection (MEP), China

- Chinese Research Academy of Environmental Sciences (CRAES)

- Yantai Environmental Protection Bureau (EPB)

Supporters: - Shandong Provincial Government

-Yantai Municipal Government

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Summary of the 2015 NOWPAP International Coastal Cleanup (ICC) and Joint TEMM-NOWPAP Workshop on Marine Litter Management

2015 NOWPAP ICC was organized on 24-25 September 2015 in Yantai, China. Comprised of a workshop and a beach cleanup, this ICC campaign was organized with the following objectives:

- To build capacity for effective management of marine litter in the NOWPAP region.
- To promote the Global Partnership on Marine Litter (GPML) in the region.
- To promote the International Coastal Cleanup campaigns in the region and to share relevant experience of NOWPAP member states and partners.
- To strengthen cooperation in the region on dealing with marine litter , including central and local governments, NGOs, academia and industry
- To increase public awareness of marine litter issues.
- To promote the implement ation of NOWPAP Regional Action Plan on Marine Litter (RAP MALI).

The workshop was organized as a joint event of NOWPAP and TEMM (Tripartite Environment Ministers Meeting among China, Japan and Korea) which considers marine litter a priority issue among others and welcomes NOWPAP efforts in promoting public awareness and regional cooperation to solve the issue.

The workshop was held with 4 sessions focused on the efforts of central and local governments, NGOs activities and international cooperation, sea-based marine litter monitoring, and cooperation between NOWPAP and TEMM. NOWPAP marine litter focal points, representatives of national and local governments (China, Korea, Japan and Russia), NOWPAP partners (O cean Conservancy, COBSEA), ICC coordinators, universities, research institutes, NOWPAP Regional Activity Centres and environmental NGOs participated in the meeting and beach cleanup.

A RAP MALI working meeting was organized to review the progress in the implementation of the RAP MALI projects in 2014-2015 and to discuss plans for 2016-2017. A TEMM working meeting was also held to discuss how to strengthen the cooperation between TEMM and NOWPAP in the near future.

Programme

24 September, Thursday

09:00—17:00: Joint TEMM-NOWPAP workshop on marine litter management

25 September, Friday

08:00—10:00: TEMM focal points meeting on marine litter

10:00—12:00: RAP MALI working meeting (attended by NOWPAP marine litter focal point s,

representatives of NOWPAP RACs and RCU)

Beach cleanup

13:50— Departure for ICC campaign/beach cleanup (bus ride about 10 minutes)

17:00— Back to the hotel

Joint TEMM-NOWPAP Workshop on Marine Litter Management Yantai, People's Republic of China, 24 September 2015

08:40-09:00	Registration
09:00-09:20	Opening (Chaired by Mr. Hao CHEN, NOWPAP Marine Litter Focal Point of China)
	(Speeches by MEP, provincial/municipal government, NOWPAP RCU)
	Session 1: Central and local governments' efforts to deal with marine litter (Chaired by Mr. Hao CHEN, NOWPAP Marine Litter Focal Point of China)
09:20-09:40	Hao CHEN: China's government efforts in dealing with marine litter issues
09:40-10:00	Jun SAEGUSA: Efforts to combat marine litter by the Government of Japan
10:00-10:20	Kensuke TAKENOUCHI: Actions to clean up Ise Bay - all together and beyond boundaries
10:20-10:50	Coffee break, group photo
10:50-11:10	Sang Hee HONG: Addressing the issue of microplastics in the Republic of Korea
11:10-11:30	Q&A, Discussion
	Session 2: NGOs activities and international cooperation
	(Co-Chaired by Mr. Jun SAEGUSA, TEMM/NOWPAP Marine Litter Focal Point of Japan and Ms. Hanako YOKOTA, representative of JEAN)
11:30-11:50	Allison SCHUTES: Ocean plastics: looking back at 30 years of data and forward towards solutions
11:50-12:10	Yonglong LIU: The efforts of environmental protection NGOs in China in fighting against marine litter pollution
12:10-13:30	Lunch
13:30-13:50	Hanako YOKOTA: JEAN efforts and activities related to 2011 tsunami debris
13:50-14:10	Takafumi YOSHIDA: Presentation on the NW Pacific regional node of GPML
14:10-14:30	Yana BLINOVSKAYA: Results of ICC campaigns in the Russian Far East and preparation for the 2016 NOWPAP ICC
14:30-14:50	Reynaldo MOLINA: Coordinating Body on the Seas of East Asia (COBSEA) - updates and initiatives
14:50-15:10	Young Nam KIM: Education and public awareness to reduce marine litter in the Republic of Korea
15:10-15:20	Q&A, Discussion
15:20-15:40	Coffee break

Session 3: Sea-based marine litter: monitoring and management

(Chaired by Xiaodong ZHONG, NOWPAP Deputy Coordinator)

15:40-16:00	Jong Myoung LEE: Results and outcomes of Korea National marine debris monitoring programme
16:00-16:20	Sergey MONINETS: Development of marine litter monitoring system in Peter
	the Great Gulf
16:20-16:30	Q&A, Discussion
	Session 4: Cooperation within the framework of TEMM
	(Chaired by Xiaodong ZHONG, NOWPAP Deputy Coordinator)
16:30-16:40	Mr. Yi LI: Marine litter action plan under TEMM
16:40-17:00	Jun SAEGUSA: A proposal for marine litter data sharing under TEMM action
	plan
17:00-17:10	Q&A, discussion
17:10-17:20	Closing
	•

List of Participants of 2015 NOWPAP ICC

24-25 September 2015, Yantai, China

China

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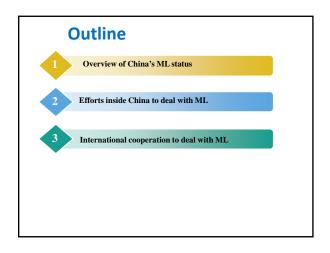
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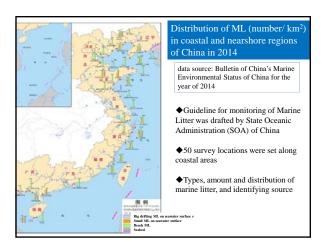
Busan 619-705, Republic of Korea

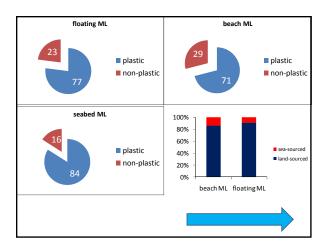
Tel: +82-51-720-3003, Fax: +82-51-720-3009, E-mail: gyounghee.kim@nowpap.org

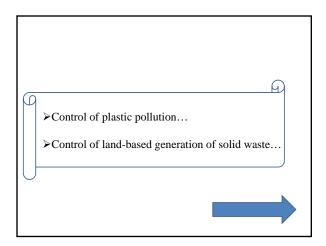
Presentation handouts











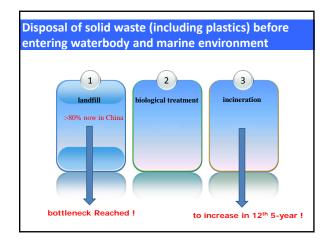


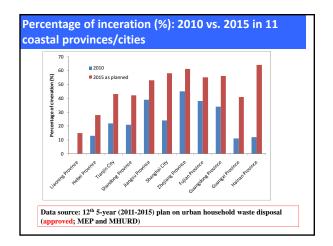
The use of non-degradable plastics is still allowed in some provinces...

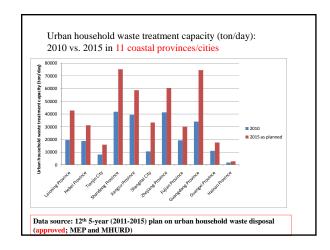
BUT

It will be fined if the vendor provide the plastics free of charge to the customers in the markets...

Fine of up to RMB 5,000!







Application of new technologies to disposal of solid waste (including plastics) are encouraged by the governments...

Pretreatment

Incineration for power

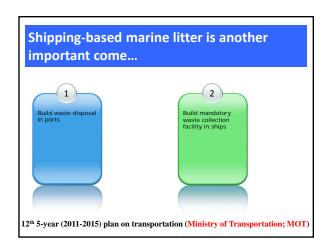
No dioxin!

Cement production at high T





Besides land sources, sea-based sources also generate marine litter...

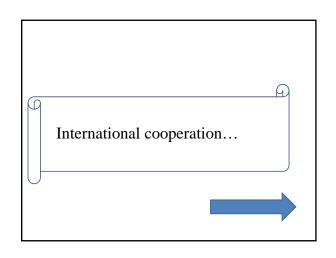




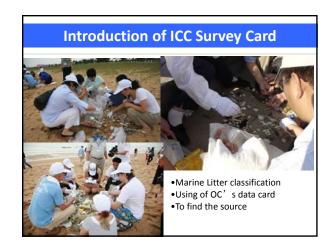
















Hao Chen (China)



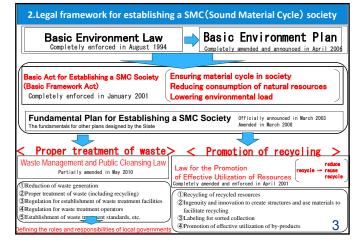
Discussed and reviewed in The Fifth International Marine Debris Conference...





Contents 1. Overview of Marine Litter in Japan 2. Legal framework for establishing a SMC (Sound Material Cycle) society 3. Cooperation under Marine litter law in Japan 4. International Cooperation





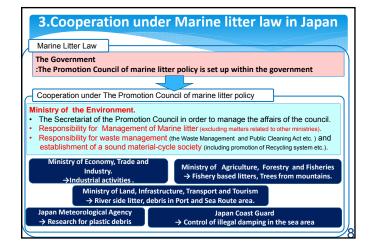


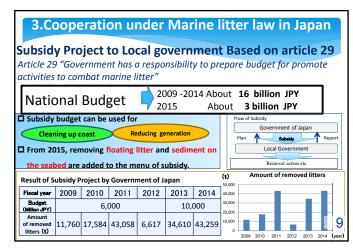


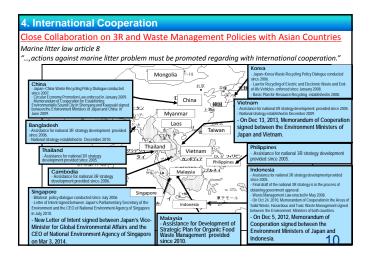


3. Cooperation under Marine litter law in Japan Marine Litter Law (Article 30) ① The government shall establish the Council for Promoting Countermeasures against Marine Litter which is composed of officials from relevant national organizations and conduct the coordination to achieve the comprehensive and effective promotion. ② The government shall establish Expert Council for Countermeasures against Marine Litter, which is composed of those who have expertise in the Council for Promoting . ③ Expert Conference shall give advice and make proposals about matters concerning promotion of

Countermeasures against Marine Litter to the Council.







<Leaders' Declaration G7 Summit>
 G7 countries recognize the marine litter in particular plastic litter, poses a global challenge.(Leaders' Declaration G7 Summit 7-8 June 2015)
 The G7 countries commits to priority actions and solutions to combat marine litter as below.
 ①Removal actions
 ②Actions to Address Land-Based Sources
 ③Actions to Address Sea-based Sources
 ④Action on Education, Research and Outreach
 <Tripartite Environment Ministers Meeting>
 ● The Ministers from China, Japan, ROK adopted the Tripartite Joint Action Plan on Environmental Cooperation in TEMM17 on April 2015.
 The Ministers agreed to hold workshops on marine litter, share data on marine litter, and exchange information on each country's policies and experiences in the plan.

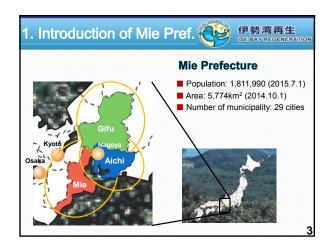
4. International Cooperation

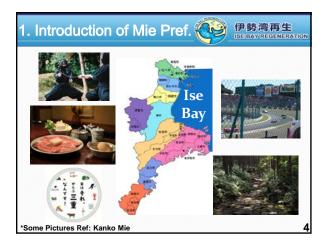
Jun Saegusa (Japan)





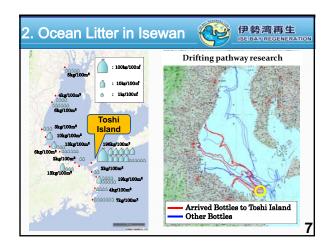


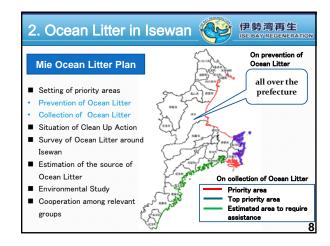












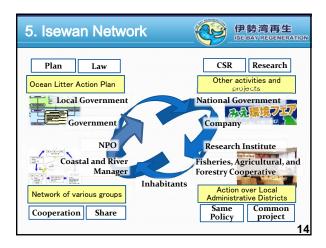






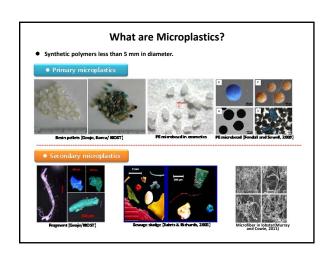


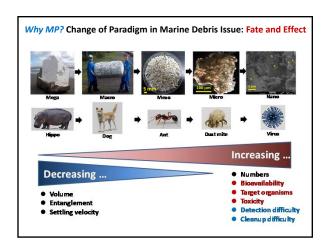


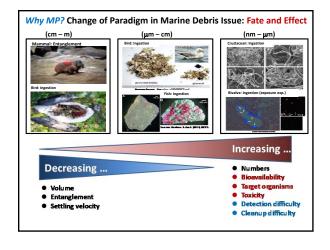


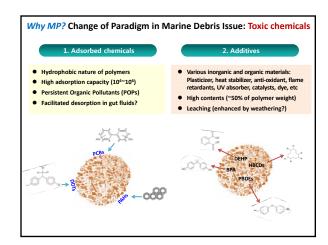


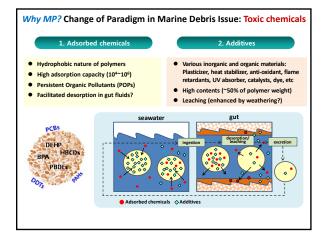


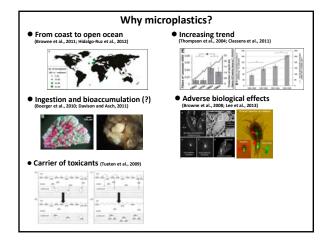


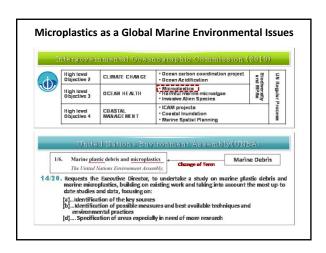


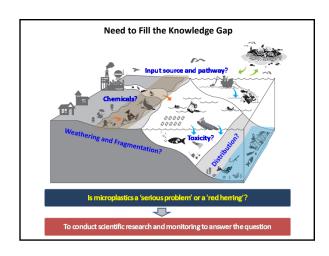




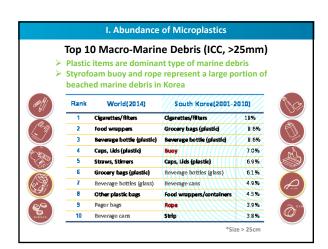


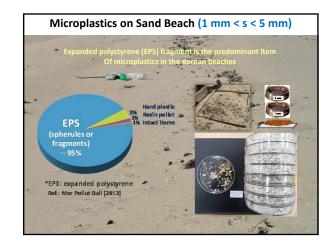




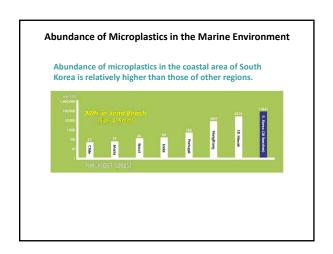


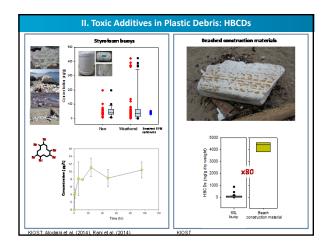


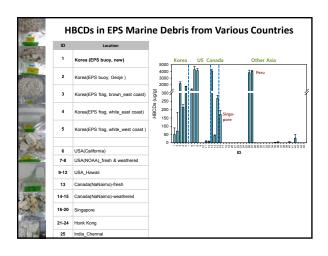


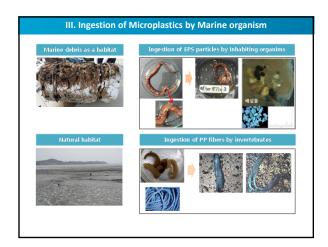


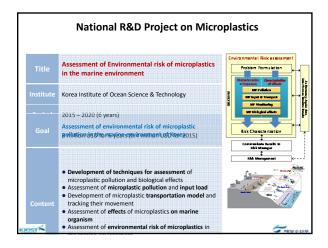


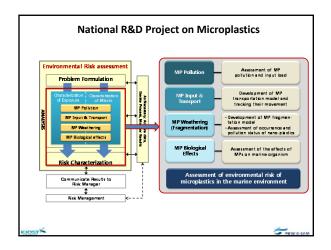




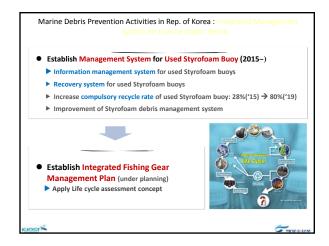








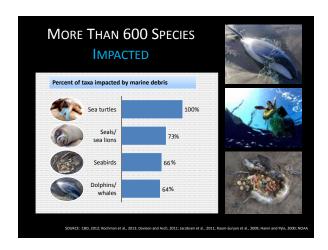


























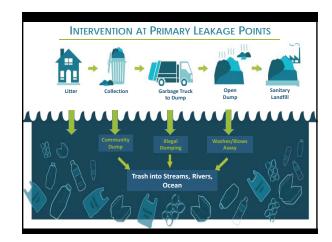


















: Rendu Ocean NPO Develoj

LiuYongLong:

ICC coordinator of China Director Rendu Ocean

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September 24, 2015





The story between China E-NPO & MD

Shanghai Rendu Ocean NPO Development Center



LiuYongLong: ICC coordinator of China Director Rendu Ocean

September 24, 2015

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- Brief introduction of Rendu Ocean
- Our knowledge of marine debris
- Marine debris management of China Ocean NPO





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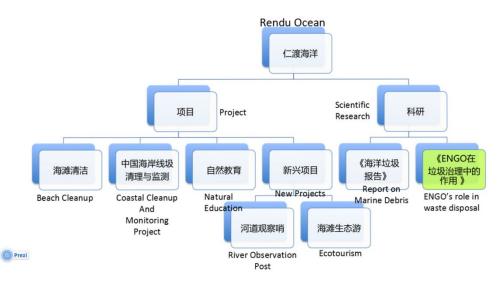


In 2013, Rendu Ocean registered as a NPO and non-

commercial enterprise.



Business Framework





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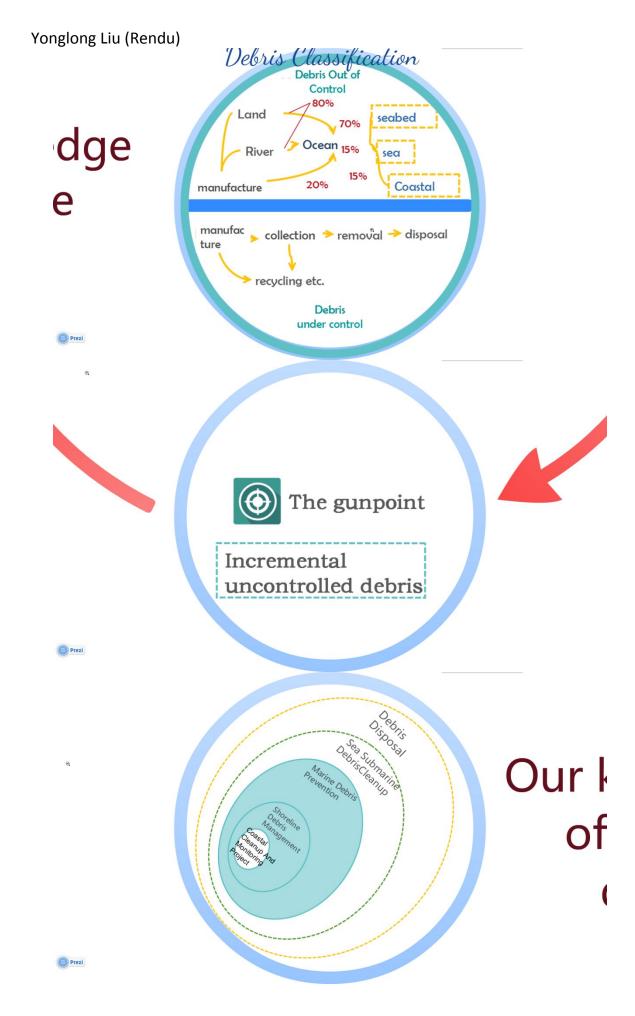
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我们是: We are member of this Alliances -

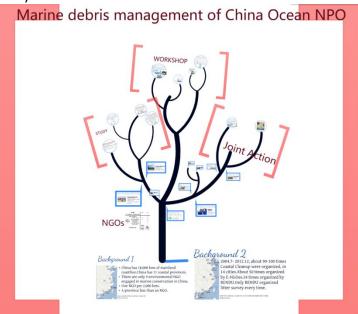
- ❖ 国际海滩清洁活动中国区协调人 / Chinese Coordinator of ICC (the International Coastal Cleanup)
- Global Partnership on Marine waste (GPML)
- ❖ CLEAN UP WORLD (CUW)中国第一家会员单位 / the First member of CUW in China Mainland
- ❖ 零盟正式成员 / China 0 waste Alliance
- ❖ 全国青少年生态环保组织圆桌会议China Youth Roundtable environmental protection organization/Round table meeting of Chinese youth ecological environmental protection organization
- ◆ 中国环保倡导行动网络 / Environmental Advocacy Network in China (EAC-CN)
- ❖ 社会组织自律吧正式成员 / the Union of Self-Disciplinary Organizations (USDO)







Yonglong Liu (Rendu)



Background 1



- China has 18,000 kms of mainland coastline. China has 11 coastal provinces.
- There are only 9 environmental NGO engaged in marine conservation in China.
- One NGO per 2,000 kms.
- A province less than an NGO.

NGO CON-DUCTING COASTAL CLEAN-UP Before 2012.10

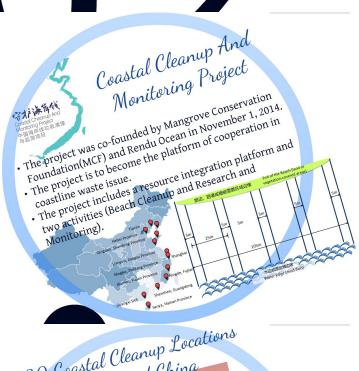
Background 2

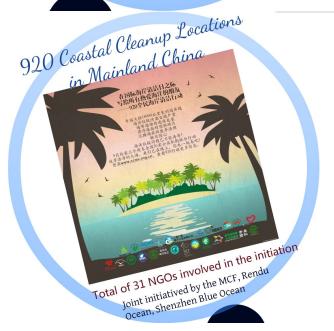


2004.7- 2012.12, about 90-100 times Coastal Cleanup were organized, in 14 cities. About 50 times organized by E-NGOes.34 times organized by RENDU. Only RENDU organized litter survey every time.

MAP OF COASTAL CLEAN-UP LOCA-TIONS IN MAINLAND CHINA Before 2012.6







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A first step toward a unified platform for communication and collaboration...

The 1st workshop on China's environmental NGOs role in marine litter issues, Shanghai(China), August 24.

Organized by CRAESfinancially supported by UNEP under a SSFA for a project "National Report of China's Environmental NGOs in Marine Litter Issues" and technically supported by Shanghai Rendu













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"LET'S PROTECT OCEAN" **R4WO SCIENTIFIC ROUNDTABLE**

Time: 9:30-12:00 am August 10th Venue:swissnex China conference room (Room 2210, swissnex, Blog A, Xianxia Road 319)

held by swissnex China and the R4WO team technically supported by Shanghai Rendu



2015 Cross-Straits Clean Ocean Movement

The first time strait engaged in marine protected NGOs gathered and discuss marine debris control.

30 mainland institutions, 16 Taiwanese organizations

Organized by The Society Of Wilderness and MCF financially supported by SEE

technically supported by National Museum Of Marine Science&Technology and Shanghai Rendu







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Human Ocean Sustainability——China Ocean Philanthropy Summit 2015 Think Globally, Act Locally—Strategy and Action for China Ocean Philanthropy

Venue: Haikou

Time: 3-4th december, 2015

Topic: marine pollution, marine ecological restoration and sustainable fisheries, comprehensive thoughts of marine

environmental protection

Organized by Shanghai Rendu and China Blue

financially supported by The David and Lucile Packard FoundationMCF

Hainan Arilines

technically supported by Hainan Sellfish and Coral Conservation Association, Blue Ocean Protection Association, Hainan Biological

Protection Association





Report on MD in China 2015

The restine report the All black of themse way generate on deriven and 19 to 19



Intertidal zone miniature plastic garbage collection project

TimeAugust 2014January 2015 Sampling Location: Shanghai Nanhui Mouth Beach, Dalian

Organized by CRAES

financially supported by The National Geographic Air and

Water Conservation Fund

Volunteer supported by Shanghai Rendu and DEPVA (Dalian

Environmental Protection Volunteers Association)

Prezi

Report on MD in China 2015

The reaction report China all kinds of information on the governance of marine waste by 2015. We try to provide a more complete compilation of information to the public to focus on marine waste issues.





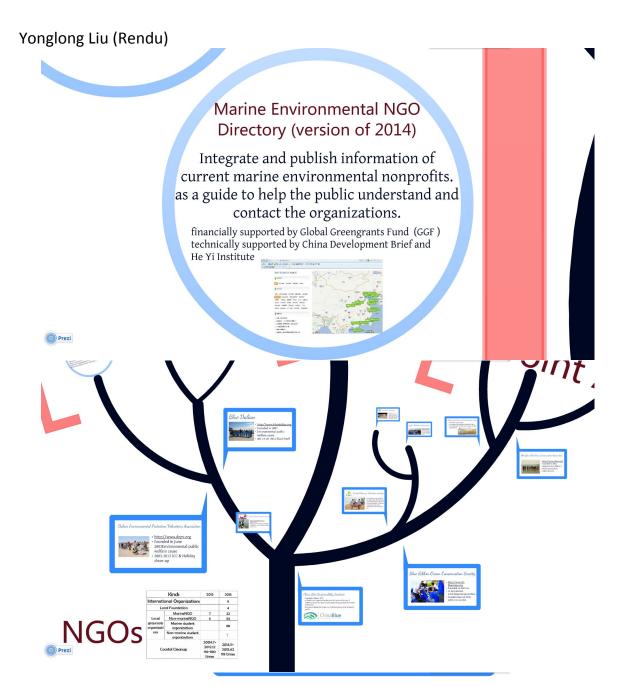
Three times, 2014 March, June, September Sampling Location: Shanghai Nanhui Mouth Beach

Plastic Resin Pellets on the Beach

financially supported by Global Village of Beijing technically supported by Hideshige Takada, Ph.D

Sample ID	POPs concentration (ng/g-pellet)									
	Σ13 PCBs*		DE	Ts				HCHs		
		DDT	DDD	DDE	Total	α	β	γ	δ	Total
14042800	6.2	15.39	5.89	8.54	29.8	0.06	0.00	0.00	0.00	0.06
										-







	Kinds	2013	2015
International Organizations			6
Loc	al Foundation		4
	MarineNGO	7	22
Local	Non-marineNGO	6	34
grassroots organizati	Marine student organizations		30
ons	Non-marine student organizations		?
Coastal Cleanup		2004.7- 2012.12 90-100 times	2014.11- 2015.62 119 times



Dalian Environmental Protection Volunteers Association



- http://www.depv.org
- Founded in June 2003Environmental public welfare cause
- 2003-2012 ICC & Holiday clean-up







- http://www.bluedalian.org
- Founded in 2007
- Environmental public welfare cause
- 2011.9.18 -2012 Black Reef





Coastal Cleanup Volunteers Society



- Founded by a reporter team
- November 8th, 2007 (Reporter Festival) first beach clean-up
- Thousand Register Volunteer
- Footprints Coastal and wetlands all over the Yellow Sea



Beilun Volunteers Association



- http://www.bl35.org/
- Early March 2012 the first clean Beach (Chunxiao blue ocean sand Elf Hill)
- More than 35,000 people registered volunteersA GONGO

Prezi



Green Fujian Association



- Founded in 2014
- Focus on Marine Waste
- ResourceMinjiang River estuary rough sea floating reed islands of garbage Management Practices

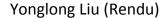
Prezi

Shishi Beautiful Coastal Volunteets Association

- Founded in 2015 August
- A society of local people, many are fishers
- From July,2014, do cleanup everyday, divided several team 2013 2015

2013







 Marine environmental protection
 In 2000,Mr. Clean clothes walking miles Coast

Prezi

联系我们

Contact Us

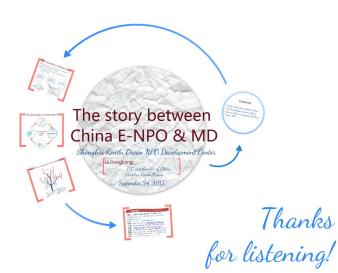
地址: 上海市浦东新区峨山路633号C栋222室 Address: Room 222, Building C, 633 E'shan Road,

Pudong New District

邮编: 200127 Postal code: 200127

手机: 159 0076 4240Mobile: 159 0076 4240

Prezi



EFFORTS AND ACTIVITIES RELATED TO 2011 TSUNAMI DEBRIS

NOWPAP ICC-WS 2015/09/23-24

> JEAN Hanako Yokota

Details of Presentation

- Correspondence
- Projects done in Canada by JLP and IVUSA
- Results from exchanging information in between NGO
- Role of ICC





1. Correspondence (1)

- •2011 March 11 Great East Japan earthquake triggered a massive
- ·In May 2011 with request from JEAN, the Liberal Democratic Party hosted a special committee for problems of driftage items due to Tsunami.
- •From spring of 2012, with the support of the Ministry of Environment of Japan, we started the research with cooperation of NGO/NPO both in Canada and United States.

Goal for the research and communication;

- 1)To understand the driftage situation of Canada and United States, and by using the information to assist with Japans correspondence.
- 2)To further develop and strengthen the network in between NGO.
- 3)To share the information with general public.

1. Correspondence(2)

·August 2012 Portland, Oregon. U.S.A.

Information exchange, beach survey

January- Hawaii, Oregon. U.S.A.

March 2013 Information exchange, beach survey

Forum in Sendai (Disaster Struck area)







1. Correspondence (3)

June 2013 Alaska. U.S.A.

Information exchange with NGO from Alaska. Beach Survey

September British Columbia Canada, Washington. U.S.A
 2013 Information exchange with NGO from BC and

Washington. Beach Survey









1. Correspondence (4)

October 2014 Vancouver, Canada

Information exchange with NGO/NPO

from Canada and USA

Hosted a forum at Vancouver Aquarium

•November 2014 Tokyo, Natori, Miyagi Prefecture, Japan Information exchange with NGO/NPO

Forum in Natori city







2. Clean Up Projects done by JLP and IVUSA in Canada

- JLP : Japan Love Project
- 2 Clean ups in March and May of 2013
- Obective: to show appreciation to the help offered during disaster
- · Team members: Japanese students, working holiday from Japan









2. Clean Up Projects done by JLP and IVUSA in Canada

- · IVUSA:
- International Volunteer University Student Association
- 5 day clean up in March 2014
- 70 students from Japan
- · 6 ton of debris













3. Results from exchanging information between NPO(1)

[From exchange between NGO of Canada, Japan, and USA]

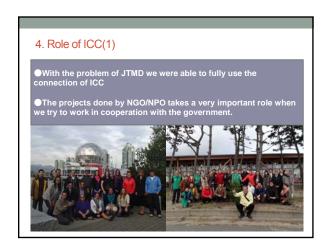
OBy understanding what the disaster did to the affected area and victims, we now think about "Japanese Tsunami Related Debris" as of part of each individuals life, and we collect the items with thoughts toward our neighbors across the North Pacific.

 \Rightarrow Strengthening the level of understanding in between countries on a public level helps with building stronger international cooperation connection.

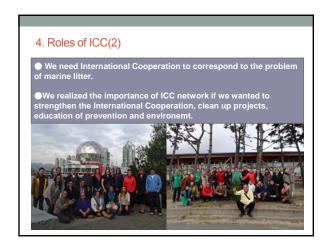
OWith the problems of JTMD, it has again made us realize that it is important to spread the message plastic pollution and marine litter problem to international society

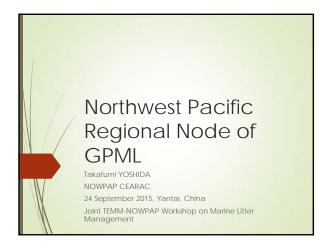
 \Rightarrow The importance of sharing the up-to-date information.



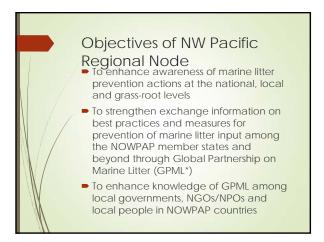


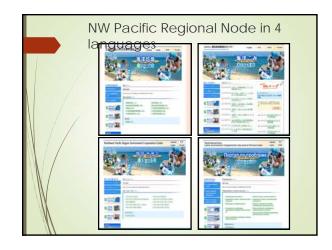
Hanako Yokota (JEAN)

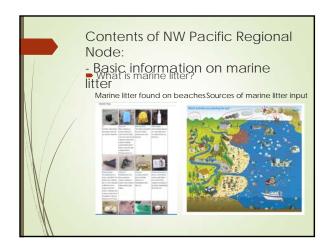




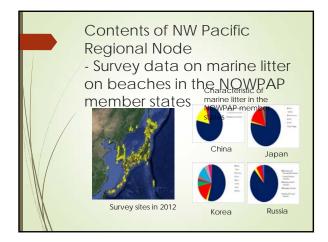


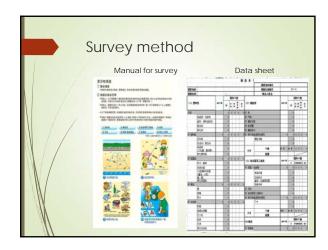


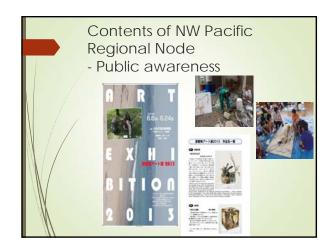
















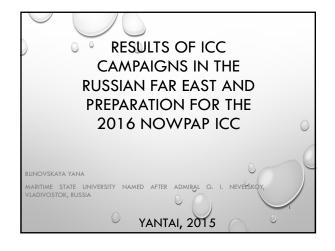


Takafumi Yoshida (CEARAC)

Information on actions by central government, local governments and other entities • Updating of information on various kind of activities

- Updating of information on various kind of activities against marine litter conducted by central government, local governments and other entities in Japan
- Translation of report published by Ministry of Environment Japan into English

In the 2016-2017 biennium, information of China, Korea and Russia will be added to the NW Pacific Regional Node









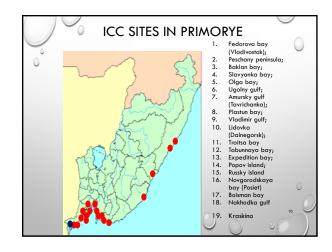


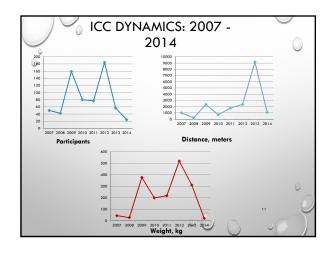


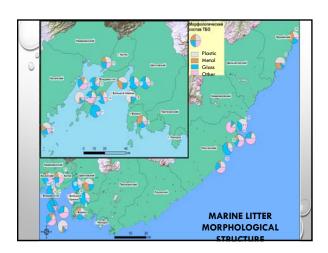






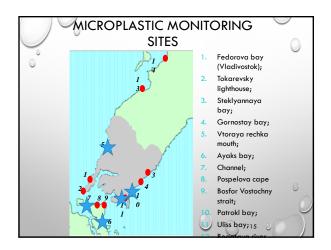




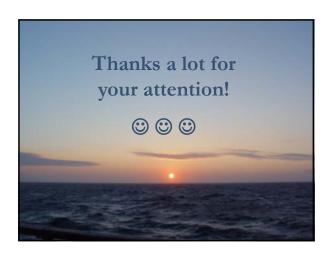


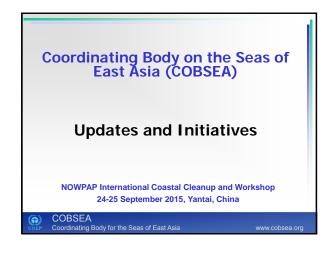




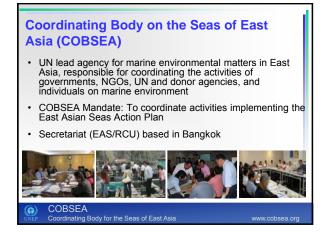














COBSEA Updates

- Recruitment of COBSEA Coordinator early 2016
- Recruitment of COBSEA consultant to develop strategic direction, financial scenarios, resource mobilization strategy – ongoing
- Development of GEF South China Sea SAP Implementation Project – PPG ongoing
- 2nd Extraordinary IGM in March/April 2016

COBSEA

www.cohsea.org

COBSEA Regional Initiatives

- Sida Spatial Planning in the Coastal Zone Disaster Prevention and Sustainable Development
- Yeosu Addressing the Challenge of Sea-Level Rise and Coastal Erosion in the East Asian Seas – Initial Implementation of COBSEA Regional Strategy
- MFF Protecting Marine Ecosystems in MFF Countries Using the Green Fins Approach
- MFF Strengthening the Resilience of Coastal Communities, Ecosystems and Economies to Sea-Level Rise and Coastal Erosion
- MFF Mapping and Enhancing Natural Resource Governance in Small Island Communities



Coordinating Body for the Seas of East Asia

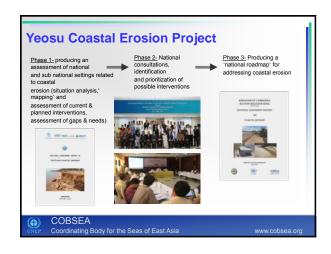
www.cobsea.org















- · Implemented from 2013 to 2014 with budget of 250,000 USD including co-financing
- · Regional Partner: Reef-World Foundation
- Participating countries: Maldives and Vietnam
- Goal To strengthen the conservation, sustainability and wise management of coral reefs and associated coastal ecosystems by encouraging environmentally responsible diving tourism through implementation of the Green Fins approach.
- Green Fins Approach promotes private sector compliance with a code of conduct and assessment system, raise awareness among regulators, diving companies and customers, and develops and strengthen regulatory framework implementation.

dinating Body for the Seas of East Asia

Project Activities and Outputs -(a) (a) (b) 'Situation analysis' of the diving industry and its impacts on coral reefs and local on coral reefs and local communities and assessment survey of environmental policies or standards for the diving and snorkelling industry including identifying gaps and needs and potential Green Fins National Teams National level multi-stakeholder consultations to introduce and consultations to introduce a implement the Green Fins approach including establishment and capacity development of Green Fins National Teams

COBSEA

Coordinating Body for the Seas of East Asia

Project Activities and Outputs

Implementation of activities using the Green Fins approach including integration of the Green Fins approach in existing processes and approaches to retired parties. national marine environmental laws and regulations governing tourism industries.





ing Body for the Seas of East Asia

MFF Coastal Erosion Project

- Two-year project January 2013-December 2014
- · Total budget USD 440,000 including co-financing
- · Participating countries: Pakistan and Thailand
- Partners: Ministry of Climate Change (Pakistan), Department of Marine and Coastal Resources (Thailand), MFF NCB Pakistan and Thailand, other relevant national and sub-national authorities
- Goal To strengthen through needs-based interventions, the resilience of coastal communities, economies and ecosystems to the adverse impacts of sea-level rise and coastal erosion in Pakistan and Thailand

COBSEA

Project Activities and Outputs

- Analysis and assessment on coastal ecosystem vulnerabilities to coastal erosion and sea-level rise including review of policies and legislations and structures and work on coastal erosion and priority gaps and needs for addressing coastal erosion
- Conduct national consultation meetings to discuss and agree on assessment reports and menu of pilot interventions



COBSEA

Project Activities and Outputs

Design and implement pilot interventions for addressing coastal erosion, and distill, document and disseminate lessons learned and best practices from the project







Results/Outcomes

Knowledge and capacity on vulnerability and resilience of coastal ecosystems and communities to sea-level rise and coastal erosion are enhanced and strengthened

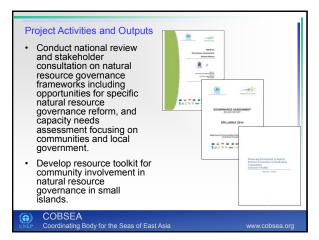


MFF Natural Resources Governance Project

- Two-year project January 2013-December 2014
- · Total budget USD 278,000 including co-financing
- · Participating countries: Maldives, Seychelles, Thailand and Sri Lanka
- Partners: United Nations Development Programme (UNDP) Maldives, the Seychelles National Parks, IUCN Sri Lanka, and IUCN Thailand, other relevant national and sub-national authorities
- · Goal To enable and support natural resource governance on small islands that integrates and builds on the respective strengths of local and community-based management as well as national policy and legal frameworks at different levels.



COBSEA Coordinating Body for the Seas of East Asia



Project Activities and Outputs

- Organize capacity building and pilot-scale demonstration interventions for small island natural resource governance reform.
- Produce communication materials that synthesize project lessons and outputs.

Results/Outcomes

- Enhanced knowledge and understanding on national/sub-national frameworks for natural resources governance
- Increased community participation in natural resources governance

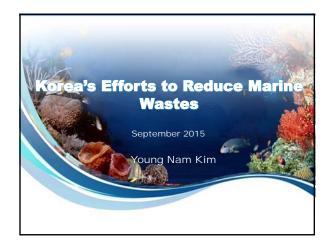






ting Body for the Seas of East Asia

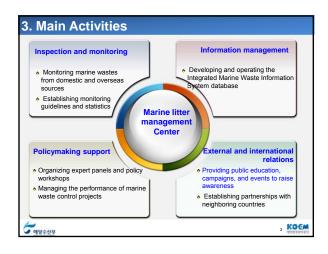




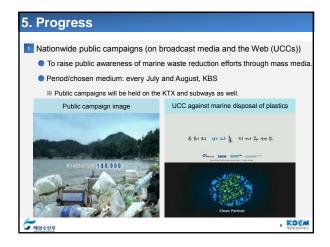




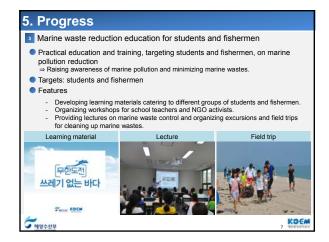






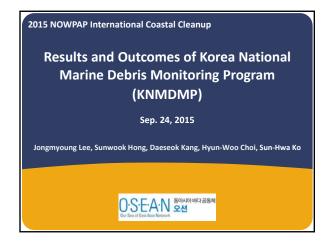


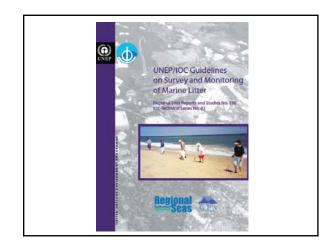




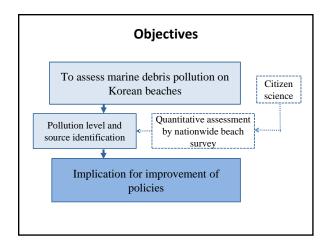


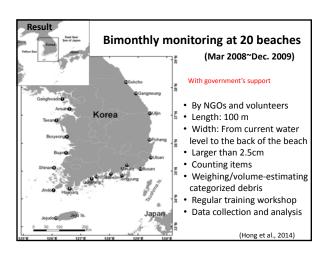


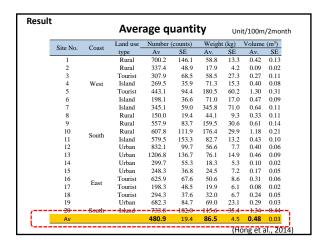




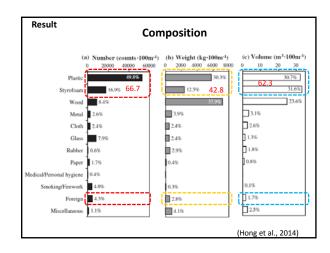


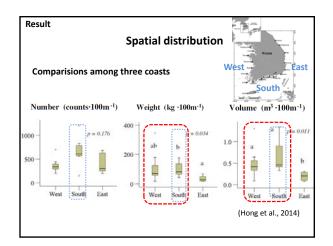


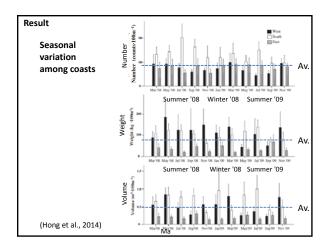


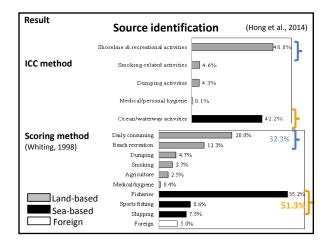


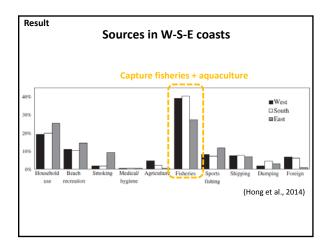
					•	revio	•
Location Sample site	Year	Period (Frequency of surveys)	Sites - (No.)	Unit (km ⁻¹)			
				Count (ea)	Weight (kg)	Volume (m³)	Reference
South Africa							
Central Transkei	1994~ 1995	Monthly (13)	6	1400~ 9800	3.4~25		Madzena and Lasiak (1997)
South Atlantic							
South Georgia, Bird island	1995	Monthly (6)	1	207			Walker et al. (1997
Falkland island	2002	Monthly (4)	1	77	17.3		Otley and Ingham (2003)
North Atlantic							
Europe	2001~ 2006	Seasonally (24)	51	1806.7			OSPAR (2007)
Nova Scotia (Canada)	2005	Monthly (6)	1	5071.4	28.6		Walker et al. (2006
East Asia							
Korea	2008~ 2009	Bimonthly (11)	20	4809	865	480	This study

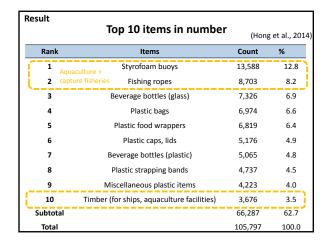


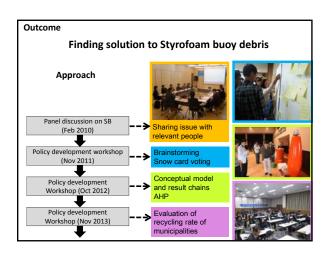


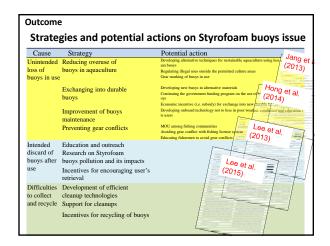


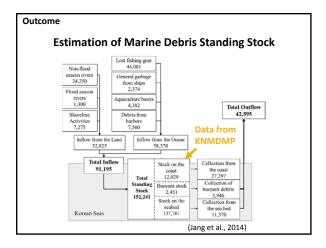


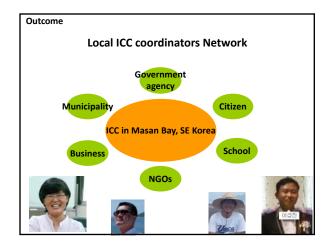














Conclusion

- First result on pollution level and sources of marine debris on the beaches at national level, <u>providing</u> <u>quantitative baseline</u> of pollution level by marine debris in number, weight, and volume
- Management policies should focus on marine debris from ocean/waterway activities, especially aquaculture (buoys, ropes etc).
- Possibility of use as an <u>indicator to monitor effectiveness</u> of <u>policies</u> through long-term monitoring

Conclusion

- KNMDMP has promoted <u>local NGOs involvement</u> in marine debris issues.
- KNMDMP site captains are functioning as <u>local</u> <u>coorinators of ICC Korea.</u>
- NGO leaders organizing <u>public awareness</u> programs in their region.
 - Local marine debris monitoring programs
 - Outreach to fishermen and students

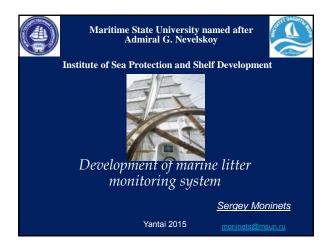
UNEP recognizes
"Citizen Science" as an emerging issues

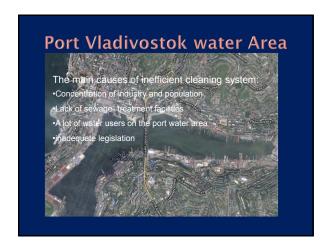
European Commission emphsizes the value of "Citizen Science".

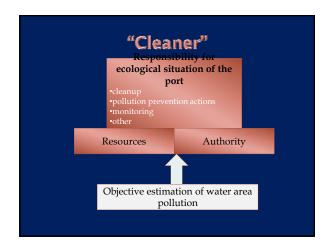
What is the value of citizen science?

contribute to the Marine Debis Solution!

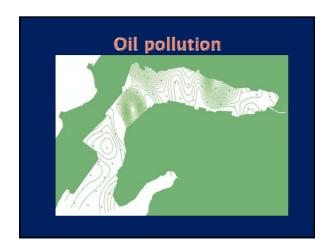


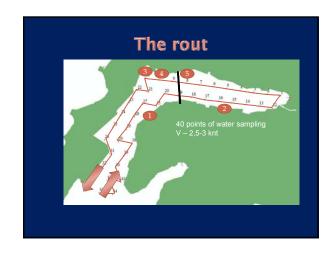






The tasks of methodology for ecological situation estimation Estimate the common value of floating marine litter on the port water area Determine the qualitative composition of the litter Estimate the oil pollution Approximately determine pollution sources.

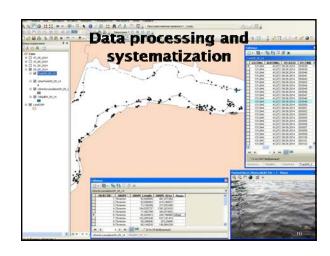


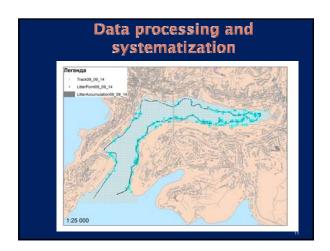


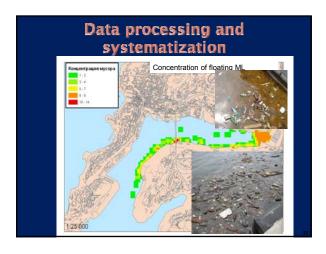












Frequency of observations

- one time two week at least
- to avoid observation in the winds changing period
- to carry on observation after the rainfall

We believe that the implementation of this methodology all interested parties will have an objective picture of the waters pollution situation and it dynamic.





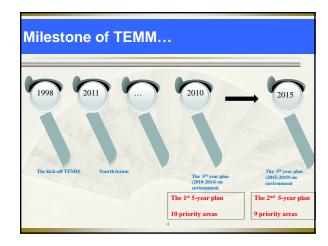
Marine Litter Action Plan Under TEMM

Yi LI

Marine Litter Focal Point of China Under TEMM

September 24, 2015





Tripartite Joint Action Plan (TJAP) on environment cooperation in ten priority areas at TEMM 12 (the 1st action plan of TEMM)...

5. Pollution Control
(Objectives)

27. The three countries will prevent atmospheric and other environmental pollution in the region, and will protect the aquatic and marine environments.
(Activities)

28 The three countries will cooperate closely, involving the remaining country, to enhance activities of Regional Action Plan on Marine Litter (RAP MALD) under the Action Plan for the Protection, Management and Development of the Marine and Coastal Environment of the Northwest Pacific Region (NOWPAP), inter talk, to strengthen joint-workshops and activities to raise awareness and promote research cooperation for sharing the scientific knowledge, including that which would improve the understanding of all countries in the region regarding the marine litter generation mechanism, with a view to managing the assessment of marine litter.

The importance of ML issues is being recognized...

Joint Communiqué
The 16th Tripartite Environment Ministers Meeting Among Korea, China and Japan 28-29 April 2014, Daegu, Korea

11. Marine Litter: The Ministers appreciated the joint efforts made by the three countries within the framework of Northwest Pacific Action Plan (NOWPAP) including the progress of Regional Action Plan on Marine Litter (RAP MALI) containing the coastal clean-up activities. They confirmed the importance of continued promotion of the joint activities in the area including NOWPAP RAPMALI to protect the marine and coastal environment in the region from marine litter. They also agreed to cooperate to hold joint-workshops and promote activities to understand the situation and subjects of marine litter on surrounding sea area in each country and construct a database within the framework of NOWPAP. They also noted the importance of promoting the implementation of NOWPAP.

The importance of ML issues is being recognized...

Joint Communiqué The 17th Tripartite Environment Ministers Meeting Among China, Japan and Korea 29-30 April 2015, Shanghai, China

12. The Ministers recognized the importance of cooperation among the three countries in conserving water environment and marine environment. They appreciated the progress of cooperation on marine litter including Regional Action Plan on Marine Litter (RAP MALI) activities under Northwest Pacific Action Plan (NOWPAP) and recognized the importance of further joint efforts made by the three countries. They decided to cooperate to hold joint workshops and promote activities to understand the situation and subjects of marine litter on surrounding sea area in each country.



Tripartite Joint Action Plan (TJAP) on environment cooperation in ten priority areas at TEMM 12 (the 1st action plan of TEMM)...

3.6 Conservation of Water and Marine Environment

A. Water Environment

- Tripartite Joint Research on Integrated Water Environment Management
- ♦ Underground (Drinking) Water Technology Cooperation

B. Marine Environment

- ♦ Tripartite Workshop on Marine Litter
- ♦ Cooperation under the Framework of NOWPAP

NOWPAP The three countries will hold workshops on marine litter, share data on marine litter, and exchange NOWPAP holds marine litter workshops information on each country's policies and experiences NOWPAP has database on marine litter and releases related regional overview, guidelines To promote cooperation to reduce and reports marine litter problems in surrounding marine areas, the three countries will cooperate in the classification of the generation mechanisms of marine litter and the impact of micro plastics on the environment: removal activities, treatment and NOWPAP hosts costal cleanup campaigns and control of the generation of marine increases public awareness litter; and increase public awareness regarding marine litter problems to enhance the activities of the Regional Action Plan on Marine Litter "RAP MALI" under

NOWPAP.

A proposal for marine litter data sharing under TEMM Joint Action Plan

Contents

- A proposal for marine litter data sharing under TEMM Joint Action Plan
- 2. Research activities by Government of Japan

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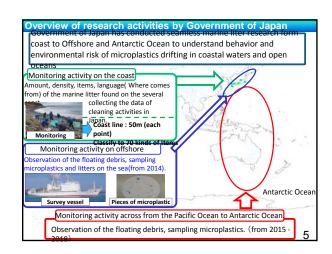
Tripartite Joint Action Plan on Environmental Cooperation

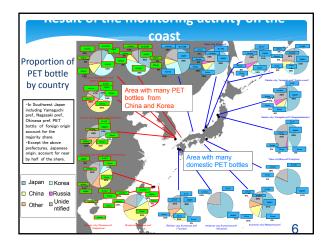
(TEMM Joint Action Plan)

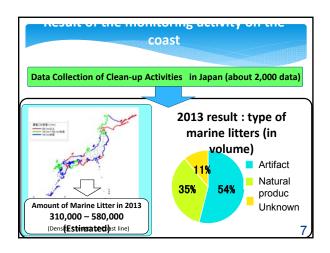
- 1. Tripartite Workshops on Marine Litter
- The three countries will hold workshops on marine litter, share data on marine litter, and exchange information on each country's policies and experiences.
- 2. Cooperation under the Framework of NOWPAP
- * To promote cooperation to reduce marine litter problems in surrounding marine areas, the three countries will cooperate in the clarification of the generation mechanism of marine litter and the impact of

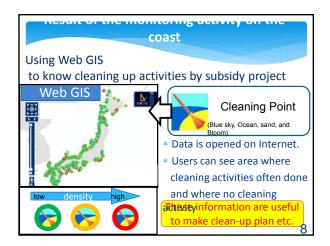


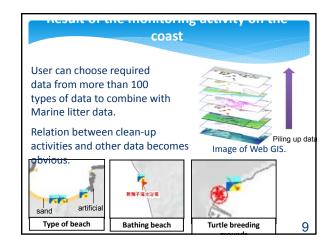
Research activities by Government of Japan

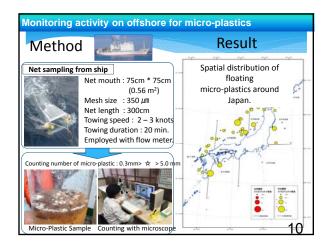


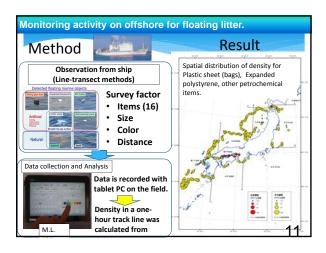












Jun Saegusa (Japan)

