



NGOs and Public Participation for Solution of Marine Debris Problems in Korea

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Development of Marine Debris Management in Korea (Nam, 2003)

1998	1999	2000	2001	2002	2003	2004	2005
After-treatment Oriented Marine Debris Management	Introduction of Comprehensive Management System from Generation to Disposal					The Second Generation of Marine Debris Management	
<ul style="list-style-type: none"> • A local NGO's (Green Busan) monitoring • Respective local activities like cleanups, campaign, events etc. 	<ul style="list-style-type: none"> • Governmental research project (KRISO, KMI) • KMI - Advocate for MANGO: Cooperative system among nongovernmental, governmental & research sectors 						
	<ul style="list-style-type: none"> • Green Korea • Coastal Korea • Korea Federation of Environmental Movement • Korea Marine Rescue Center • Other Local NGOs (>40 in total) 						

Overviews of NGOs & The Public's Participation

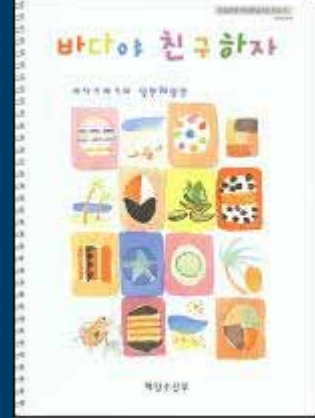
Area	1999	2000	2001	2002	2003	2004	2005
Monitoring				<i>Beach Debris</i>			
						<i>Drifted Debris</i>	
						<i>Underwater</i>	
						<i>Island Debris</i>	
Education & Public Relations				<i>Education & Training Workshop for Capacity Building</i>			
				<i>International Coastal Cleanup</i>			
International Cooperation				<i>Cooperation Between Korea & Japan</i>			

Basic Co-research

Marine Debris Monitoring Program



Financial & Administrative Support



- Framework, Organization
- Training - 10 Workshops (2001 ~ 2005)
- Development of Education & Public Relations Materials
- Web D/B, Data Quality Control & Analysis
- Science-Based Policy Support

Marine Debris Monitoring Program



- Implementation of monitoring
- Capacity building
- Policy suggestion
- Education & public relations for volunteers
- Cleanups

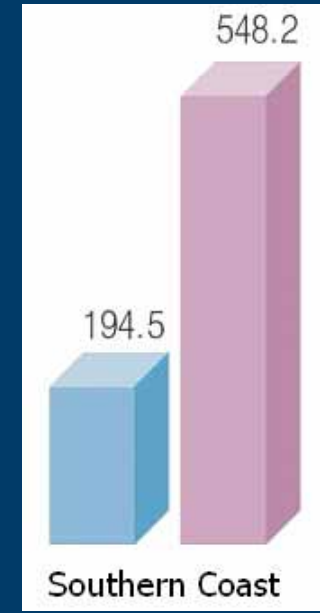
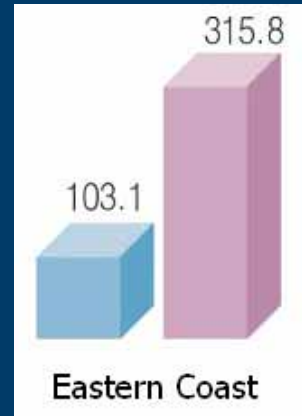
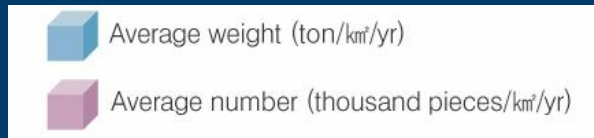
Location Map

- 36 beaches and underwater
- 6,700 NGOs activists and volunteers
- 293,000 items, 108 tons
- Focus: Beach debris ⇒ Underwater, Drifted, Remote island debris
- Monthly, quarterly, or yearly survey
- 10 Categories: Plastic, Expanded Polystyrene, Wood, Metal, Glass, etc.
- Web D/B, manuals (Beach & SCUBA)



Beach Monitoring Result

(Aug. 2000 ~ Dec. 2003 at 28 Sites)



Marine Debris Monitoring Program

- Grasp nationwide pollution by marine debris
- NGOs experts
- Highly increase NGOs activities related to marine environment as well as marine debris problem
- Cooperation between NGOs and governments: National level to local level
- Criticism/Conflict change to Cooperation/Check between NGOs and governmental sectors
- Leading part: from institute & government to NGOs (Nam, 2003)



International Coastal Cleanup

- The largest volunteer effort designed by The Ocean Conservancy (USA)
- Require to document picked items (data card) ⇒ Address source of debris and abundant items
- Join in 2001 to increase public awareness and participation
- Representative public participatory program for marine conservation based on MANGO system
- NGOs implementing monitoring organize site cleanups

Financing 100% at the beginning



Co-financing Now

Coastal Cleanup Korea

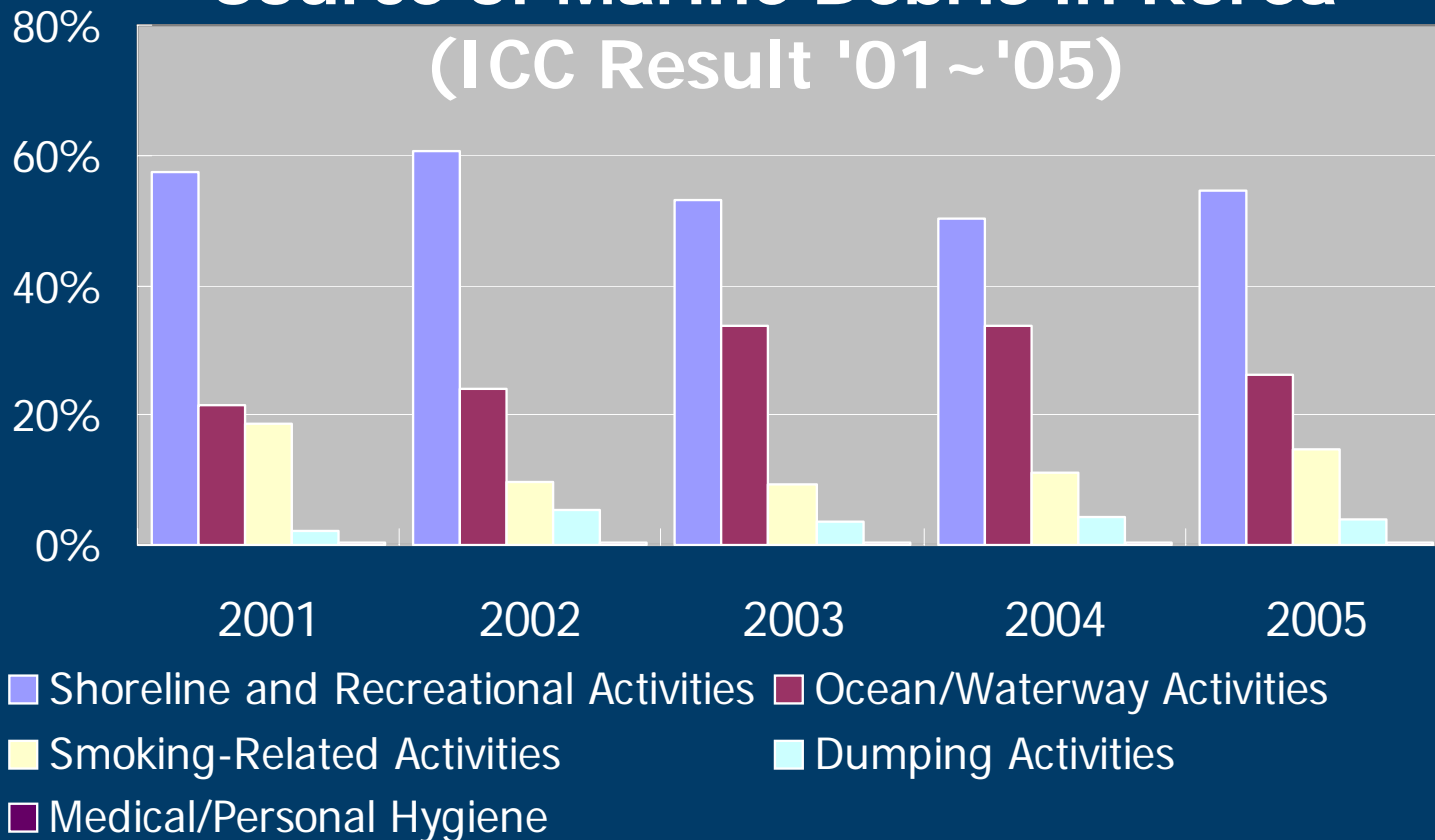
Year	Beach/ UW (Site)	People	Items (ea.)	Pound (kg)	Length (km)	Main Event (Minister's Participation)
2001	22 / 1	1,750	11,187	7,831	23.1	Inchon Jebu Island
2002	22 / 0					
2003	15 / 11					
2004	23/5					
2005	31/13	7,112	77,722	310tons	40	Only local voluntary events

Korea Coast Guard's Contribution

- The first joint participation in 2005*
- Big growth in number of people(5,281)*
- 1,583 persons collected data as well as debris*
- Send data to NGOs (KMRC)*
- Cooperation with NGOs both in national and local levels*

Source of Marine Debris in Korea

(ICC Result '01 ~ '05)



Most Abundant Item (ICC Result '01 ~ '05)



Coastal Cleanup Korea

- Yearly nationwide event for Marine environmental conservation by NGOs
- Local NGOs' role increase in planning, fund raising, organization, public relations & cooperation with local government (Local Agenda 21)
- Marine Debris Data Comparison: Korean vs. International Results
- Growth over the years : 23 ⇒ 44 sites, 1,750 ⇒ 7,112 citizens



Another Migratory Species

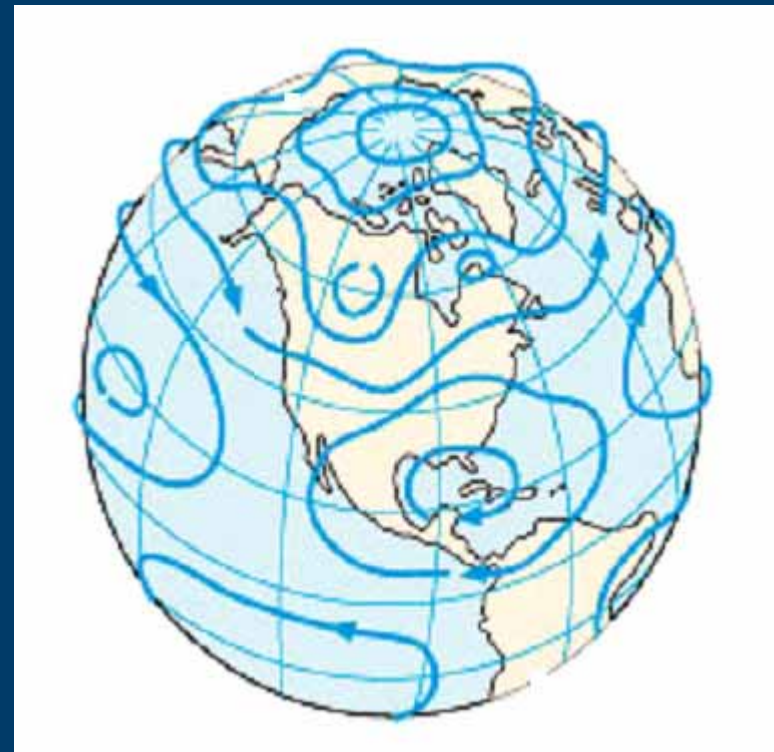


Prevailing Current & Wind Drive Marine Debris



Current

Wind



Local Beach Global Garbage

730 pieces from 48 countries and 5 continents, "Cemetery of industrial garbage" (www.globalgarbage.org)

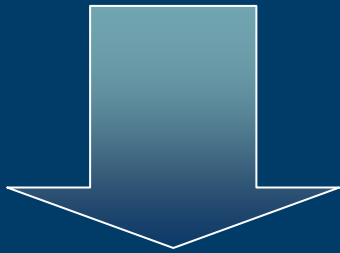


Fujieda (2003)

Woolaway (pers. comm. 2005)

International Cooperation in Regional Sea

- North Sea - OSPAR Convention
- Caribbean Sea – Cartagena Convention
- Baltic Sea – Helsinki Convention
- Mediterranean Sea - Barcelona Convention
- APEC

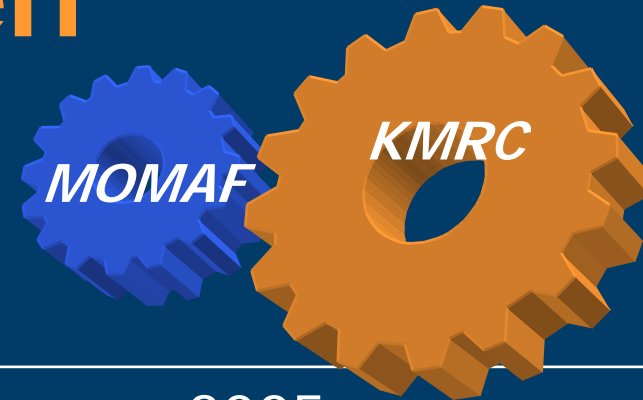


**Not to Blame,
But to Co-operate!**

NOWPAP?

Cooperation between Korea & Japan

Fund in 2005



2001	2002	2003	2004	2005 KMRC & JEAN
<ul style="list-style-type: none">• Exchange of public relations materials and information (e.g., EMECS2001, ICC2001)<ul style="list-style-type: none">• Forum (Tango)• Visiting coastal areas (Korea & Japan)• Policy workshop about marine debris (Cheonan)• Island debris summit (Tushima)				<ul style="list-style-type: none">• Joint field survey & Monitoring method comparison (Tushima)• Joint cleanup with Korean and Japanese citizens (Tushima)• Joint program for public awareness in Aichi Expo• Remote Island debris Summit (Oki)

2005 Joint Activities of KMRC & JEAN



Aug.



Dec.



Dec.



June



Aug.



June

Summary



- Government, Research Organization to **NGOs**
- Volunteers for monitoring to **the General Public**
- National level to **Local level in NGOs activity**
- Beach to **Underwater, Island**
- Debris to Underwater ecology
- Korean Seas to **Northeast Asian Seas**

Perspectives



- Decision making based on participation of NGOs
- Long-term national monitoring program to determine the status and trends of marine debris pollution
- Partnership with government both national and local levels
- Cooperation with NGOs oriented to 'Waste reduction and recycle'
- Continuous education and public relations based on MANGO
- NGOs network in Northeast Asia



*Blame Breaks Even Droplets
Cooperation Makes Big Wave*

Thank You For Listening!