


Maritime State University
Sea Protection Institute

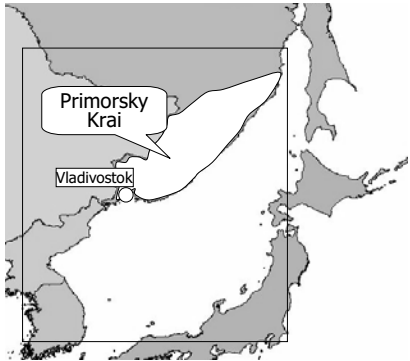
Activity of the Primorye Government for
Sea-based Marine Litter in Vladivostok



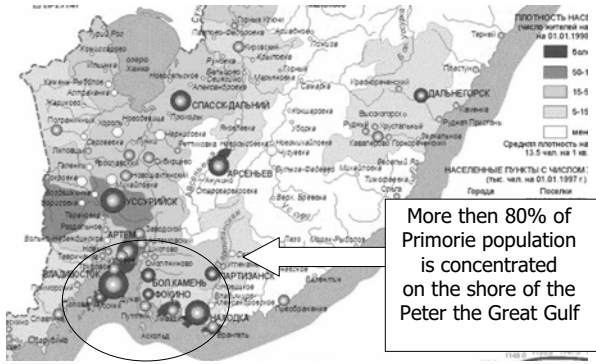
Presented by
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Primorsky Krai and NOWPAP Region



Distribution of Primorsky Krai population



General sources of ML

- **Sea-based sources of ML**
 - Merchant shipping, ferries and cruise liners
 - Fishing vessels and fish farming

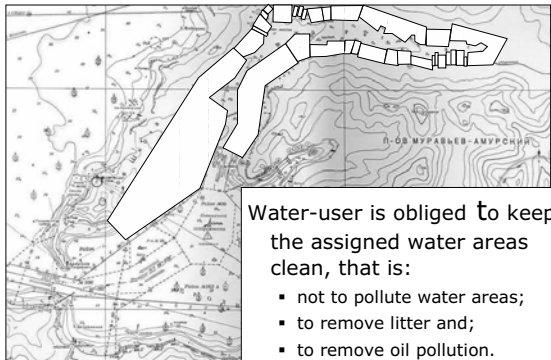
Refuse and bilge waters collection from calling merchant and fishing vessels has been arranged in all big ports of Primorsky Krai. But there are instances when litter (including plastics) is discharged into the sea

General sources of ML

- **Land-based sources of ML**
 - Waste from municipal landfills located on the coast or by river transport
 - Discharge of untreated municipal sewerage and storm water

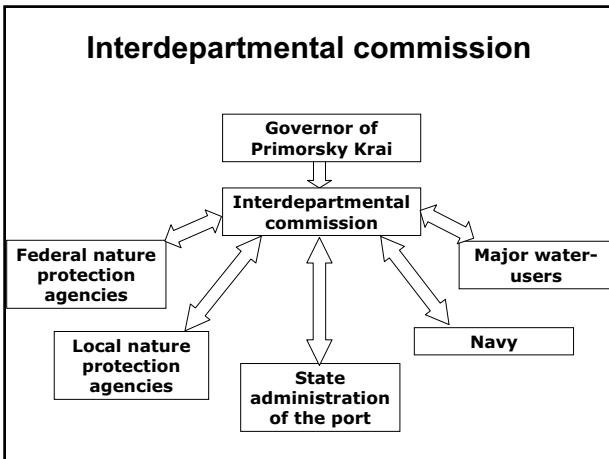
The most part of the litter is introduced into the port of Vladivostok waters with the effluent of smaller rivers, flowing through the urban areas

Water-users in the port of Vladivostok



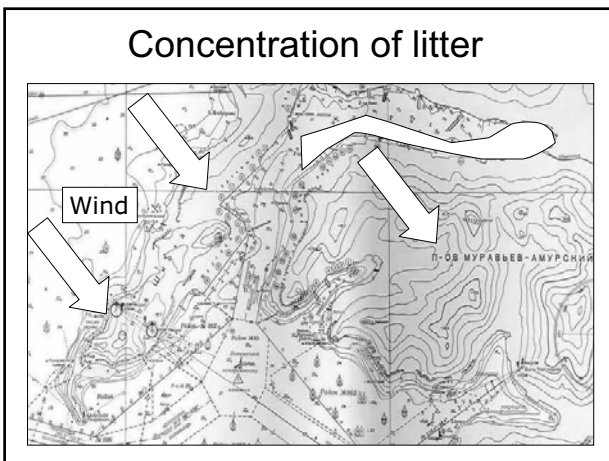
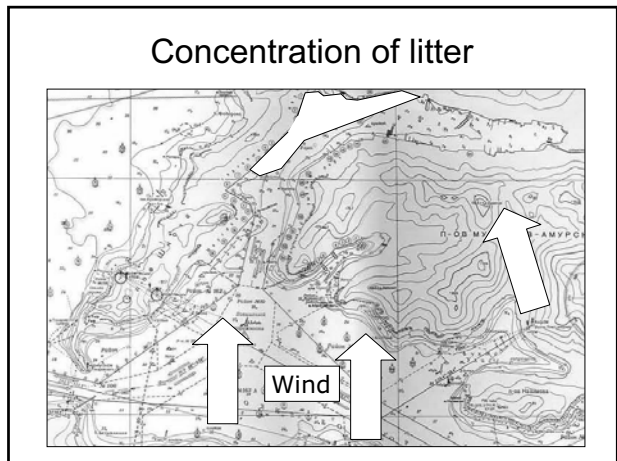
Water-user is obliged to keep the assigned water areas clean, that is:

- not to pollute water areas;
- to remove litter and;
- to remove oil pollution.



- ### The top priorities of the Government activity
- construction of the city sewage treatment and rain-storm run-off treatment plants;
 - prevention of water areas siltage and pollution with sediments originating from rain-storm run-off and man-caused solids run-off from rivers;
 - actions in water areas cleaning;
 - cleaning the Gulf waters from wrecked and abandoned craft followed by their further utilization;
 - starting litter processing plants;
 - monitoring of the water bodies' state;
 - involvement of non-governmental organizations to solving environmental problems

- ### Steps taken by the Government
- Port of Vladivostok Water User Register has been compiled.
 - An overall inventory of licenses issued has revealed that only 60 per cent of water uses do hold the licenses. An obligation to enter into water use agreements was laid on the other players in this sector of economy.
 - Starting a project of fitting sewage water outlets and mouths of rivers flowing into the sea with fine filter grating has been initiated.
 - All the river beds have been inspected. Sites of unauthorized dumping have been identified. Measure are being taken to remove these.
 - On the basis of the inspection dozens of directions were issued on correcting the violations o the nature protection law.



- ### Framework of the "Waste" Krai Programme
- water supply and sewage facilities reconstruction and development in the city of Vladivostok (sewage facilities);
 - construction of rain-storm run-off treatment plants in the city of Vladivostok
 - construction of municipal solid waste landfill in the city of Vladivostok;
 - rehabilitation of the municipal solid waste landfill (in the area of Gornostai bay, Vladivostok);
 - sunken ships recovery;
 - utilization of ships removed from service.

Action for the nearest future

- organizing port waters pollution monitoring on a regular basis;
- identifying the major sources of port waters pollution;
- determining the basic principals of cleaning activity organization and financial backup;
- establishing a stricter control on the water user compliance with the requirements of the Compulsory Regulations on sea ports and other regulatory documents.

The open questions: Financial Sources

- Financial support sources and procedures are the most essential and controversial matter
- The federal budget can't be relied upon either
- Water user need to be presented the reasonable substantiating of their share in the common fund
- The final amount of the annual budget for the port of Vladivostok water area cleaning system estimates vary in the range of from USD800,000 to USD2,000,000

The open questions: modern technologies

- In Vladivostok the whole complex is to be started from the very beginning.

The open questions: continuous monitoring

- Some ports of the NOWPAP region possess the systems of continuous monitoring which have proved their effectiveness
- In terms of priority of putting into practice the establishment of operative pollution sources monitoring system is at the top of the list.
- But its implementation is to a great extent dependent on financing.

Conclusions

- There is no commonly shared approach to solving the port waters cleaning problems
- The ML Workshops are the best venues for discussion of port waters cleaning problems.
- Within the framework of activities #17 and #18 there is some space for starting a discussion of problems and exchange of experience on port waters cleaning issues.
- This exchange can be realized through a number of ways:
 - publication of special symposium;
 - conducting a workshop for experts and local authorities;
 - holding a conference and an exhibition devoted to modern port waters cleaning technologies and techniques.

Thank you

