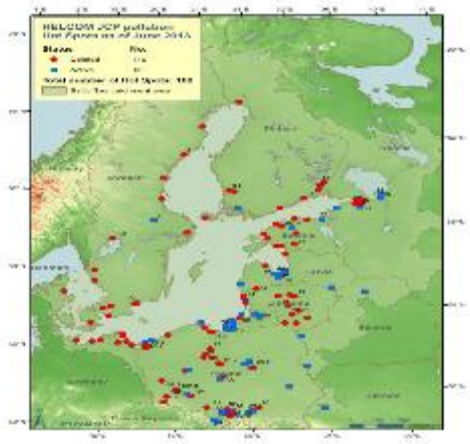
ПРИРОДООХРАННЫЙ СОЮЗ
межрегиональная общественная организация



"POTENTIAL OF NUTRIENT LOAD REDUCING FROM THE RUSSIAN "HOT SPOTS" OF HELCOM IN THE CATCHMENT AREA OF THE GULF OF FINLAND

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ПРИРОДООХРАННЫЙ СОЮЗ
межрегиональная общественная организация

GENERAL INFORMATION

WHY NOW?

Contract with the Ministry of Natural Resources and Environment of the Russian Federation

Lead partner?
Russian State Hydrometheorological University

Partners/experts?
Union for Coservation of Nature– St-Petersburg and Leningrad region “hot spots”
BIEH - Kaliningrad “hot spots”
IEEP – Agricultural “hot spots”

HISTORY. MAIN POINTS

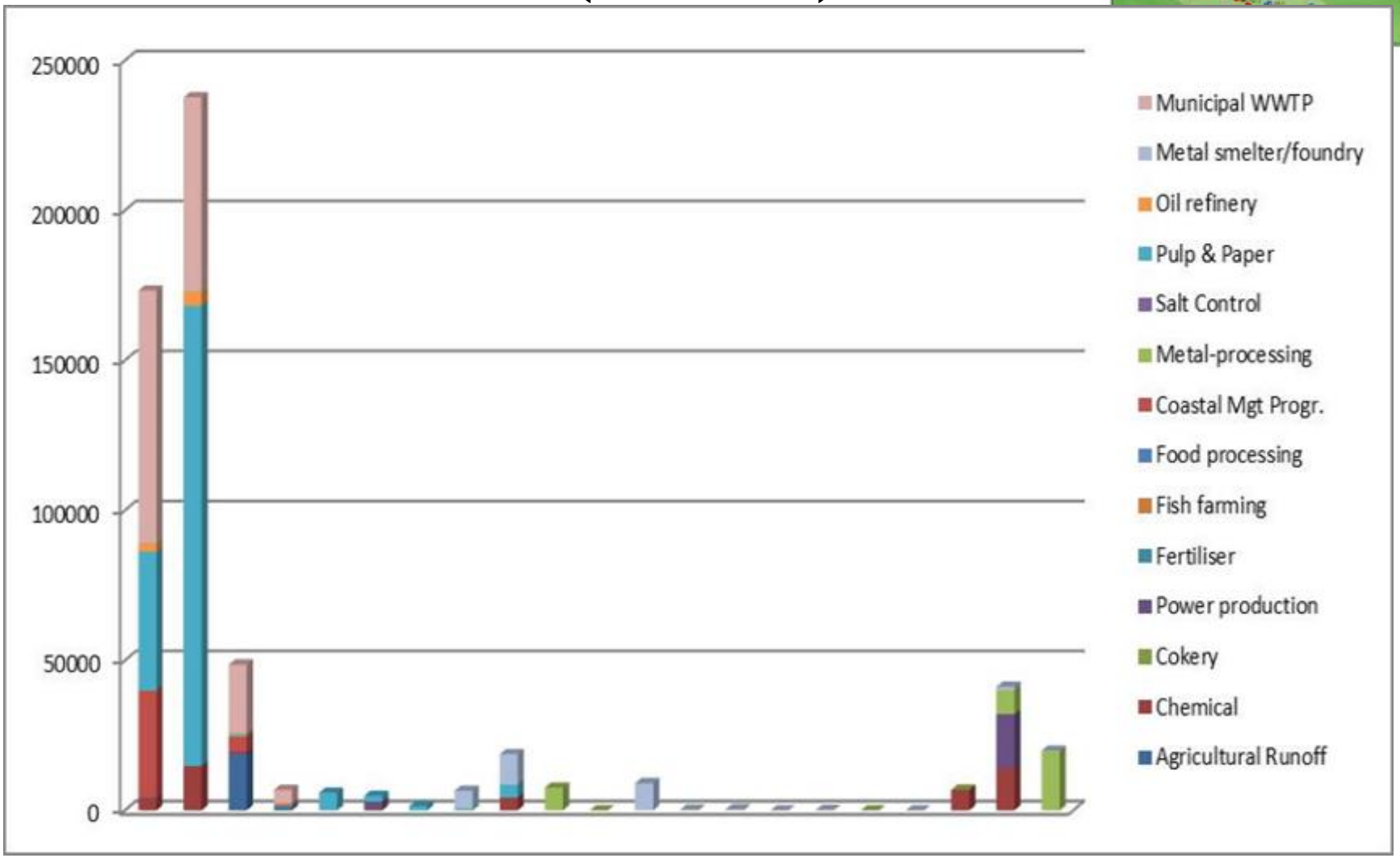
- The Baltic Sea Joint Comprehensive Environmental Action Programme (JCP) was established in 1992 for the long-term restoration of the ecological balance of the Baltic Sea.

- The programme was designed to have been completed by 2012 at the latest.

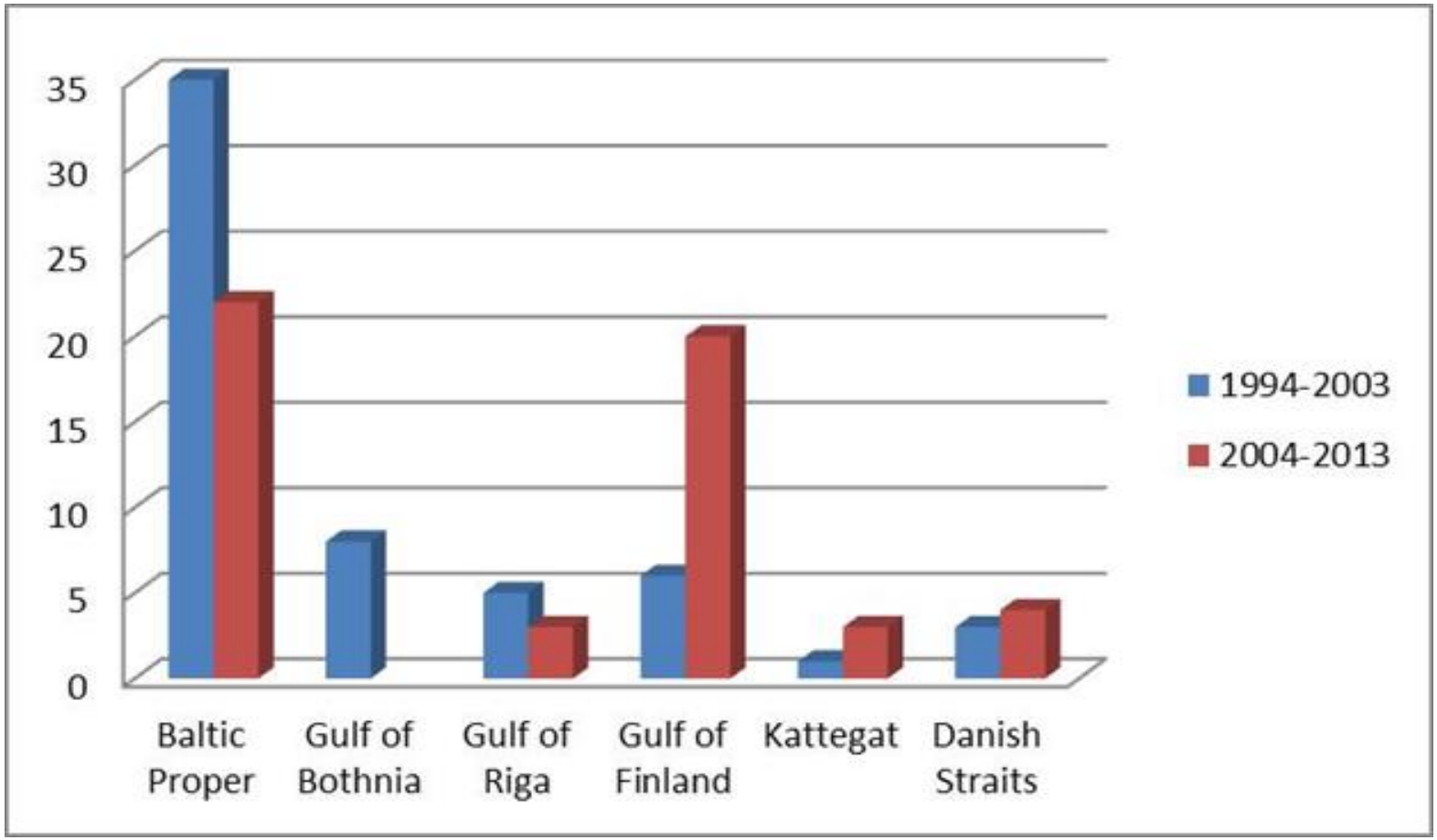
- With one third of original hot spots still remaining in the list, there is a need to continue the work on remediation of the remaining 52 pollution sites, till the very last of those will be removed from the List.

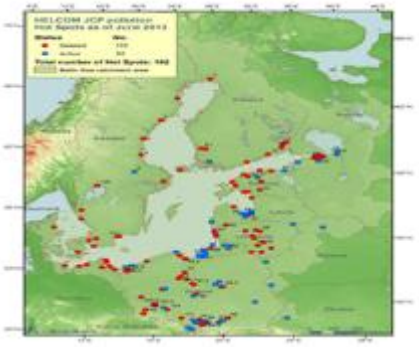
- HELCOM Ministerial Meeting in Copenhagen assessed the effectiveness of the implementation of the HELCOM JCP (1992-2012) and noted the need for its prolongation. The active hots spots have to be included into national Baltic Sea Action Plans.

POLLUTION LOAD REDUCTIONS FROM DELETED HOT SPOTS (1994-2013)



NUMBER OF DELETED HOT SPOTS PER SUB-BASIN PER PERIOD, 1994-2003 AND 2004-2013





GULF OF FINLAND

5 hot spots located in

St-Petersburg

№18 (sub-spots 18.1 – 18.19). Municipal waste water treatment

№ 23 Hazardous waste Landfill “Karasniy Bor”

Leningrad region

№ 14 «Sysaskiy Pulp and Paper Mill»

№ 15 «Volkhov Aluminium Plant»

№ 24 «Large livestock farm (sewage water treatment and sediment treatment»

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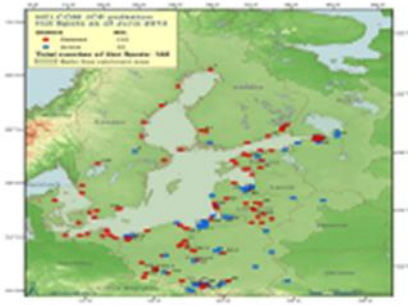
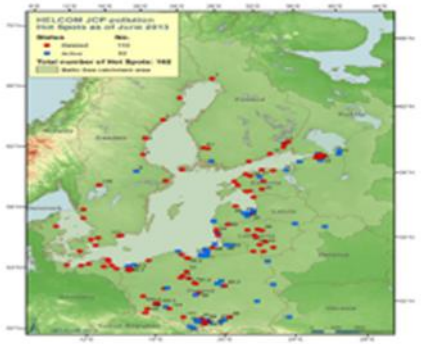
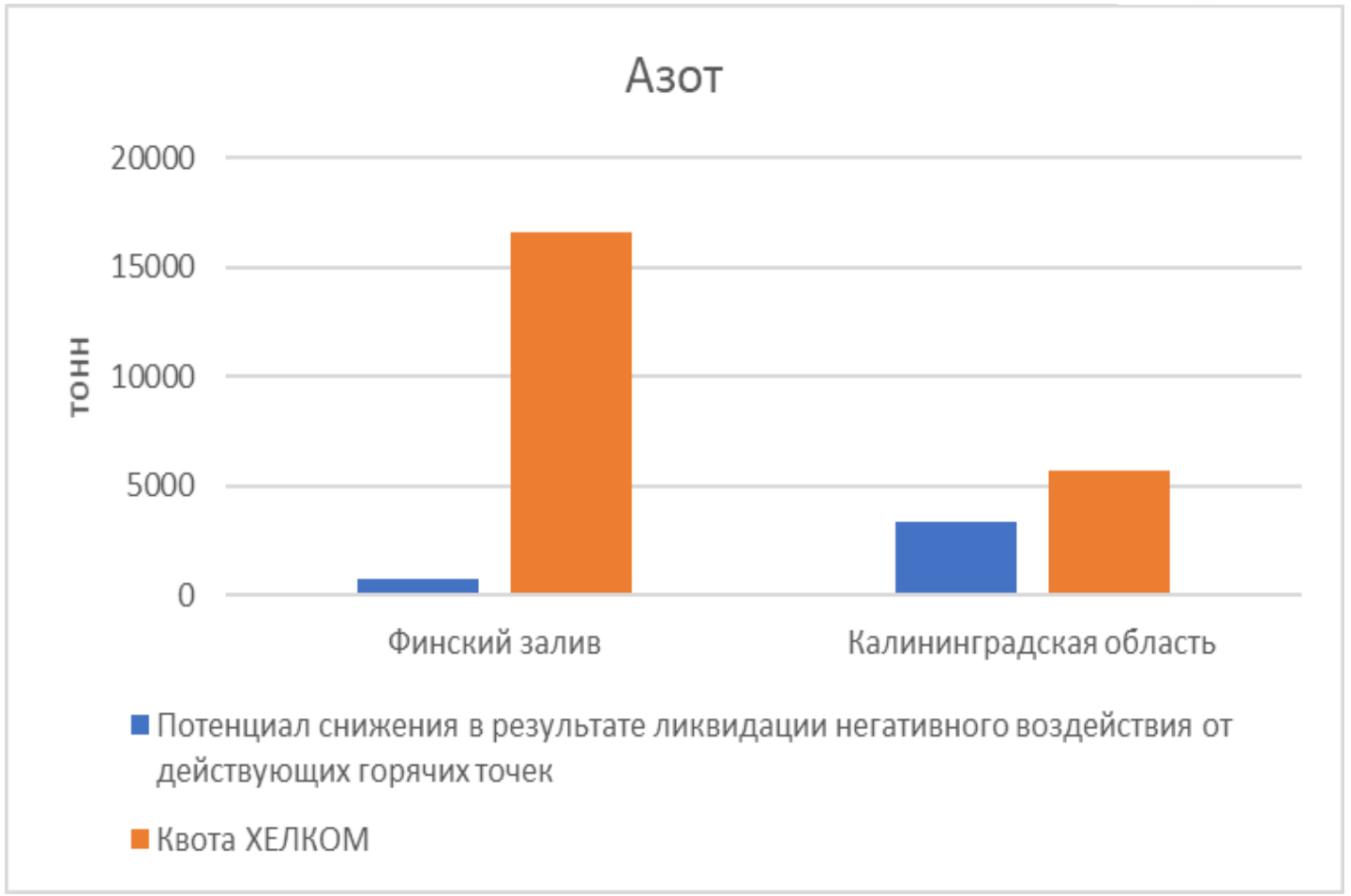


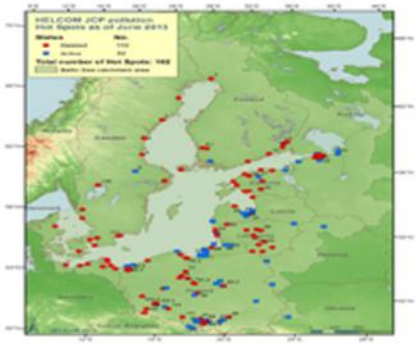
"Hot spots"	Potential of reducing nutrient load	
	N, t	P, t
18.15 – Municipal waste water treatment (Metalostroy)	55.8	16
23 – 2. № 23 «Hazardous Waste Landfill "Krasny Bor Landfill"	0	0
14 – «Syas Pulp and Paper Mill»	31.4	1
15.3 – "Volkhov Aluminium Plant (Limited Liability Company "Metankhim")"	0	4
24 "Large livestock farms (sewage water treatment and sediment processing)"	626.5	19.58

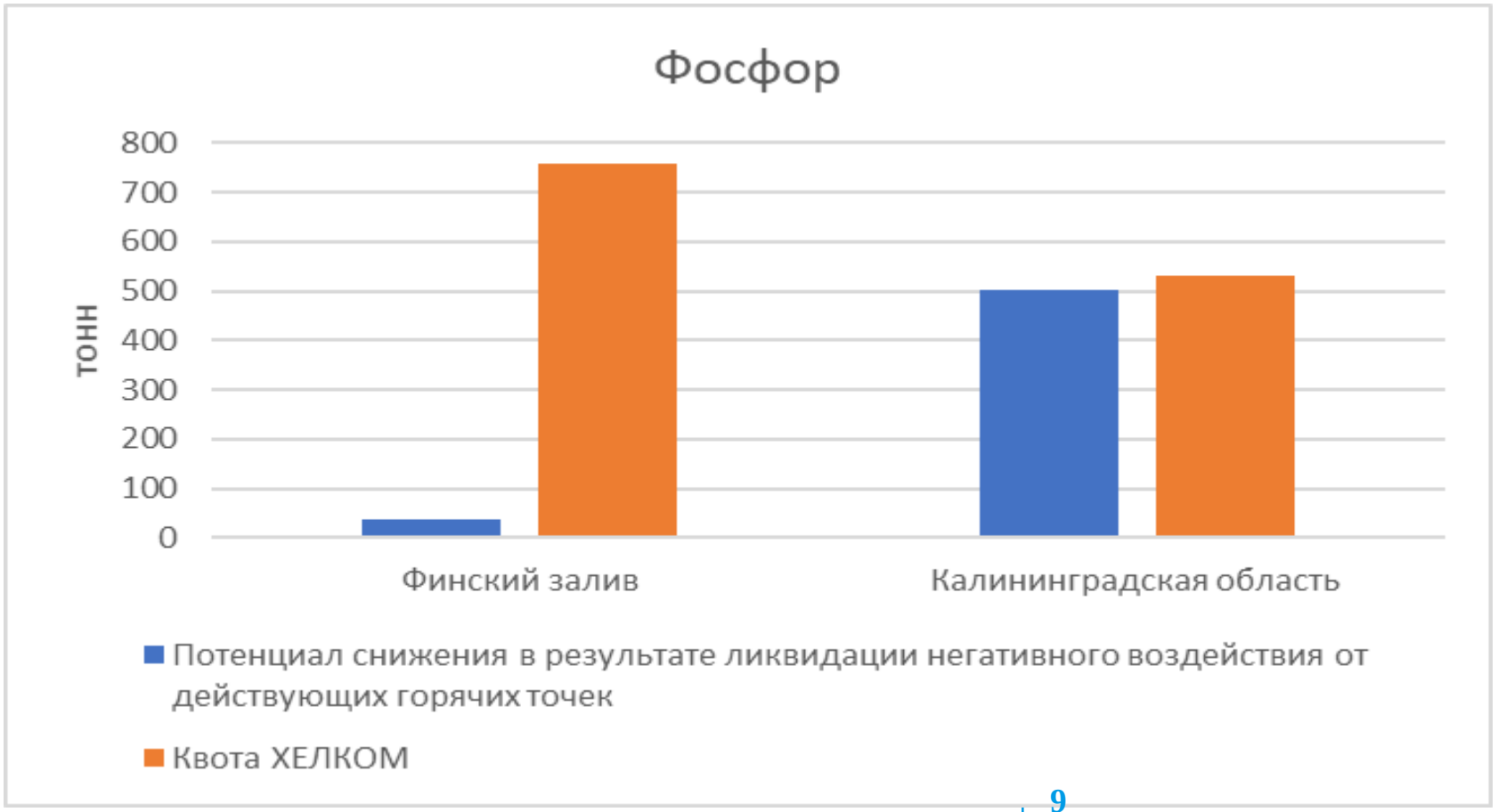
NITROGEN. REQUIRED AMOUNT AND REDUCTION POTENTIAL FROM THE “HOT SPOTS” (IN THE GULF OF FINLAND AND KALININGRAD REGION)



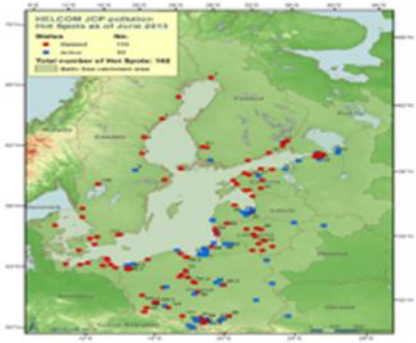


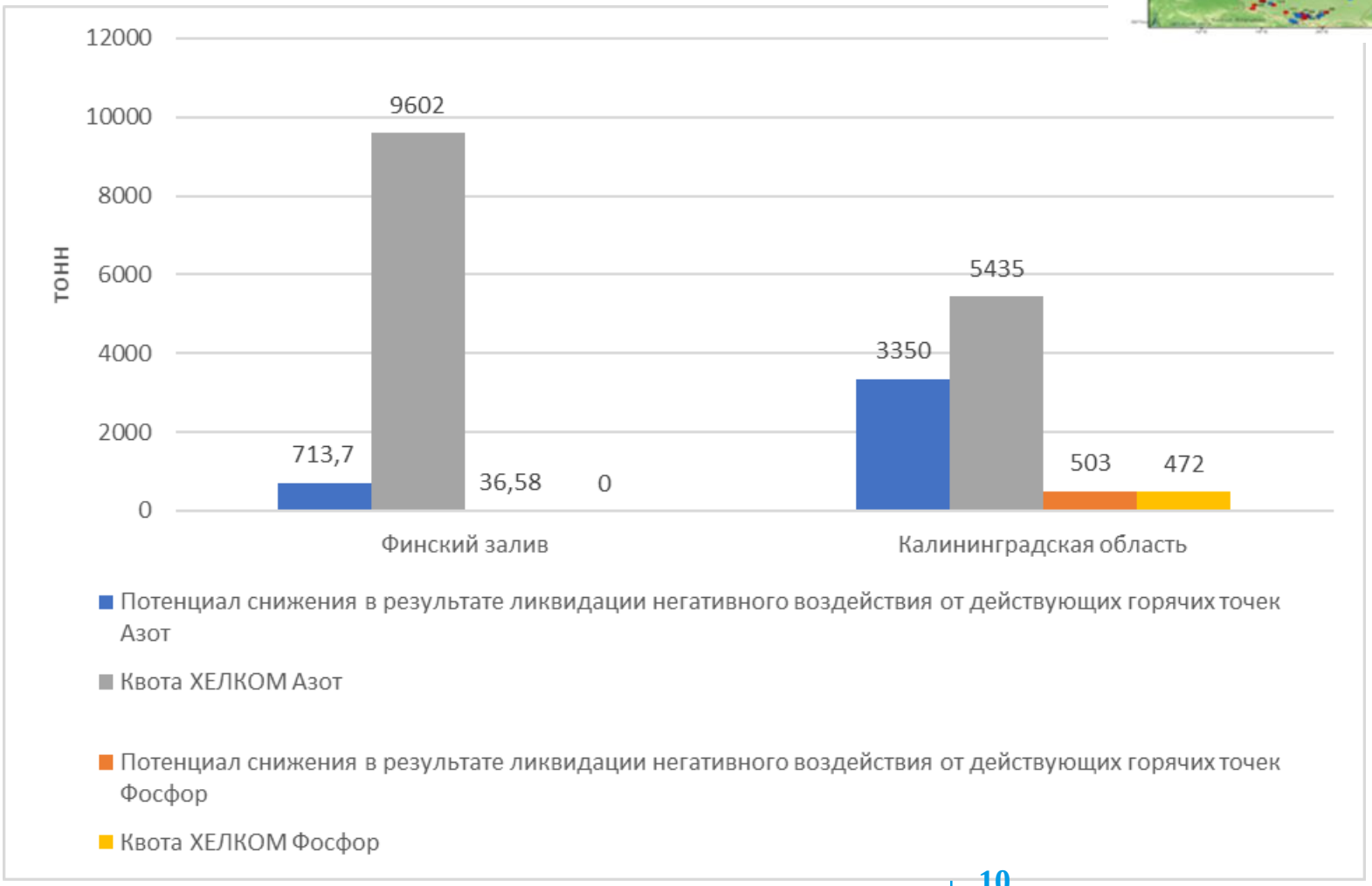
PHOSPHORUS. REQUIRED AMOUNT AND REDUCTION POTENTIAL FROM THE “HOT SPOTS” (IN THE GULF OF FINLAND AND KALININGRAD REGION)



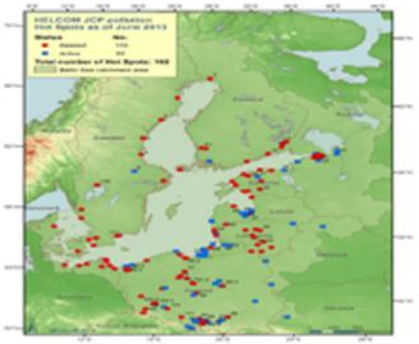


ANALYSES OF THE PHOSPHORUS QUOTA ACHIEVEMENT WHEN CLOSING “HOT SPOTS” (GULF OF FINLAND AND IN THE KALININGRAD REGION)

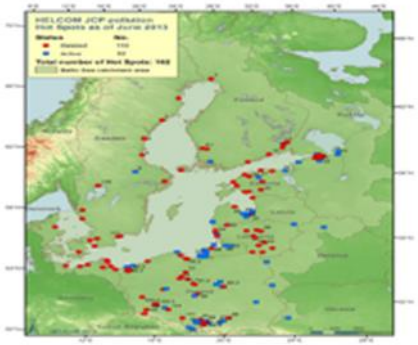




POTENTIAL OF PHOSPHORUS LOAD REDUCING (IN THE GULF OF FINLAND)



POTENTIAL OF NITROGEN LOAD REDUCING (IN THE GULF OF FINLAND)



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THANK YOU!
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