



## SCIENTIFIC COUNCIL MEETING – JUNE 2011

## Lithuania Research Report for 2010

by

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**Fishery description**

This report contains information on Lithuanian fishing vessels. All catch, effort and length distribution information are from NAFO observers on board and national database. NAFO observers are employed by the Fisheries Department, and they are able to collect basic scientific data.

In 2010 2 Lithuanian vessels operated in the NAFO Regulatory area. One vessel operated exclusively in division 1F targeting redfish by pelagic trawl (OTM 110 mm), while other vessel operated in 3LMN using bottom trawl (OTB 130 mm). Lithuanian landings (t) from NAFO area in 2010 by species are given in Table 1. Table 2 presents effort summary of Lithuanian fisheries, while Table 3 shows mean CPUEs by species and divisions.

Shrimp fishery is out of activity from 2009 due to decreased prices.

In area 1F direct fishery on redfishes were performed without bycatch of other species.

In divisions 3LMN fishery on mixed demersal species was performed, where substantial proportion of redfishes dominated by weight.

**Biological data of catches**

Biological data have been collected by observer contracted by Fishery Service. 5 species from landed part and 3 species from discarded part of catch were sampled to obtain biological data. Summary on number of samples and individuals analysed for length-weight distribution is presented in Table 4. In total 26 samples were taken and 5005 individuals were measured and weighed. Length distribution for 5 species by division and catch category is presented in Figure 1. Data on sex, maturity as well as collection of otoliths was not done due lack of experienced observers.

**Table 1.** Lithuanian landings in NAFO are by species and division in 2010 (tons) (from STATLANT21A)

FAO Code	English name	Scientific name	Division			
			1F	3L	3M	3N
RED	Atlantic redfishes nei	<i>Sebastes</i> spp	482		160	10
COD	Atlantic cod	<i>Gadus morhua</i>			39	
GHL	Greenland halibut	<i>Reinhardtius hippoglossoides</i>		6	1	
PLA	American plaice	<i>Hippoglossoides platessoides</i>				6
SKA	Rays, Skates nei	<i>Raja</i> spp				1
YEL	Yellowtailed flounder	<i>Limanda ferruginea</i>				2
RHG	Roughhead grenadier	<i>Macrourus berglax</i>			1	

**Table 2.** Fishing effort in term of haul duration (hours) in 2010 by gear and division. Mean (min-max) values indicated.

Division	Pelagic trawl (OTM 110)	Total	Demersal trawl (OTB 130)	Total
1F	6,5 (4-15)	130		
3L			9 (4-11)	672
3M			4 (1-10)	524
3N			4,5 (1-11)	196

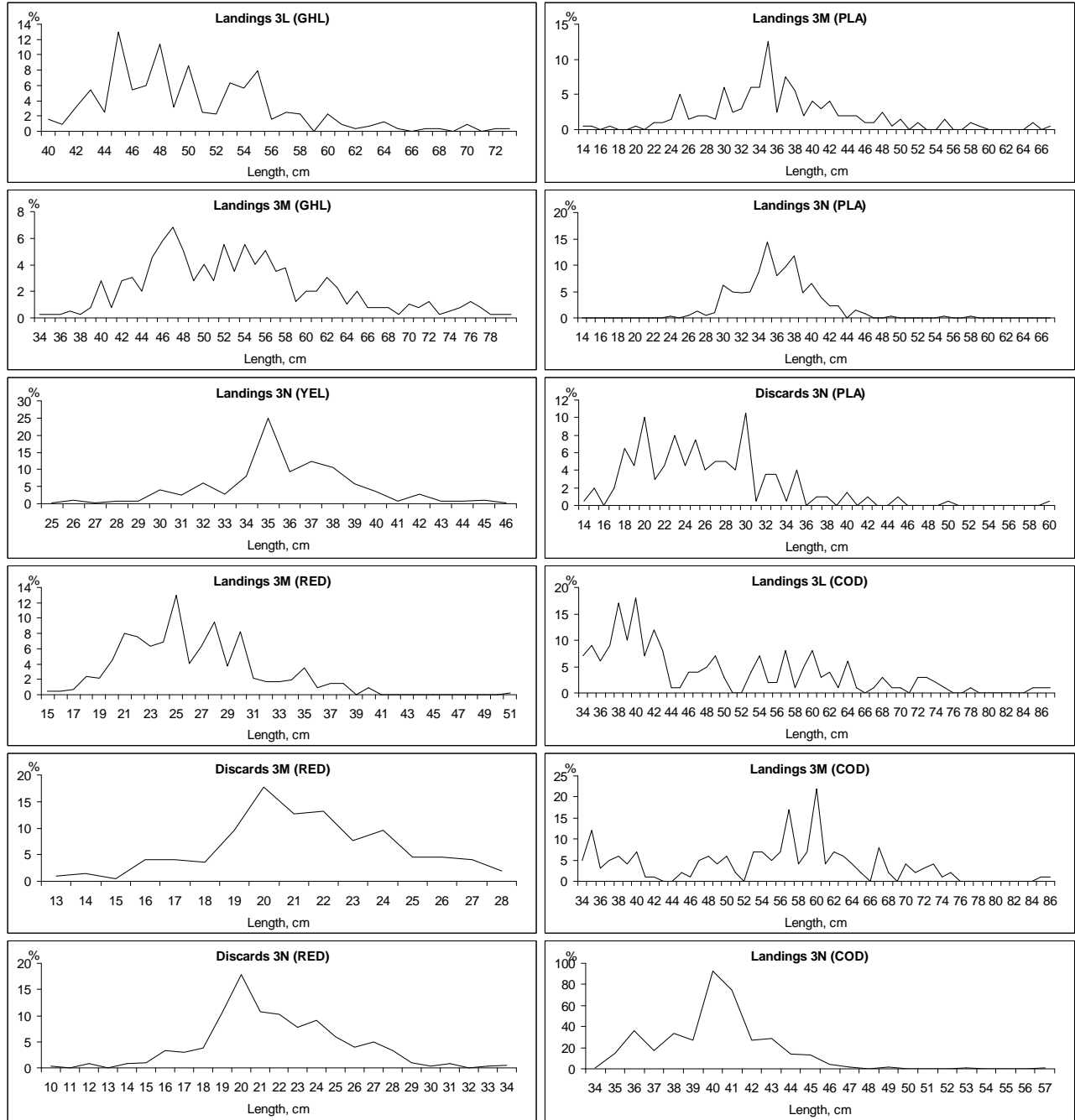
**Table 3.** Mean catch per unit effort (t/hour) in 2010 by species and division

English name	Scientific name	Division			
		1F	3L	3M	3N
Atlantic redfishes nei	<i>Sebastes</i> spp	5,1		2,0	0,8
Atlantic cod	<i>Gadus morhua</i>			0,4	
Greenland halibut	<i>Reinhardtius hippoglossoides</i>		0,1	0,2	
American plaice	<i>Hippoglossoides platessoides</i>				0,5
Rays, Skates nei	<i>Raja</i> spp				0,1
Yellowtailed flounder	<i>Limanda ferruginea</i>				0,1
Roughhead grenadier	<i>Macrourus berglax</i>			0,1	

**Table 4.** Number of samples collected and number of individuals measured and weighed by species and divisions

		Division	Catch category	No of samples	No of individuals
Atlantic redfishes nei	<i>Sebastes</i> spp	3M	Landings	2	425
Atlantic redfishes nei	<i>Sebastes</i> spp	3M	Discards	1	200
Atlantic redfishes nei	<i>Sebastes</i> spp	3N	Discards	2	400
Atlantic cod	<i>Gadus morhua</i>	3L	Landings	1	200
Atlantic cod	<i>Gadus morhua</i>	3M	Landings	1	200
Atlantic cod	<i>Gadus morhua</i>	3N	Landings	2	400
Greenland halibut	<i>Reinhardtius hippoglossoides</i>	3L	Landings	2	400
Greenland halibut	<i>Reinhardtius hippoglossoides</i>	3M	Landings	2	400
American plaice	<i>Hippoglossoides platessoides</i>	3M	Landings*	1	200
American plaice	<i>Hippoglossoides platessoides</i>	3N	Discards	1	200
American plaice	<i>Hippoglossoides platessoides</i>	3N	Landings	7	1400
Yellowtailed flounder	<i>Limanda ferruginea</i>	3N	Landings	2	400
Roughhead grenadier	<i>Macrourus berglax</i>	3N	Discards	1	50
Roundnose grenadier	<i>Coryphaenoides rupestris</i>	3N	Discards	1	130
Total				26	5005

\* - samples from bycatch



**Figure 1.** Length distribution of 5 species in Divisions 3LMN