

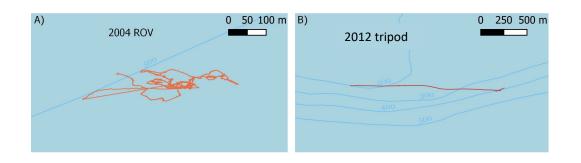
Analyzing images from benthic habitat mapping in 2004-2019

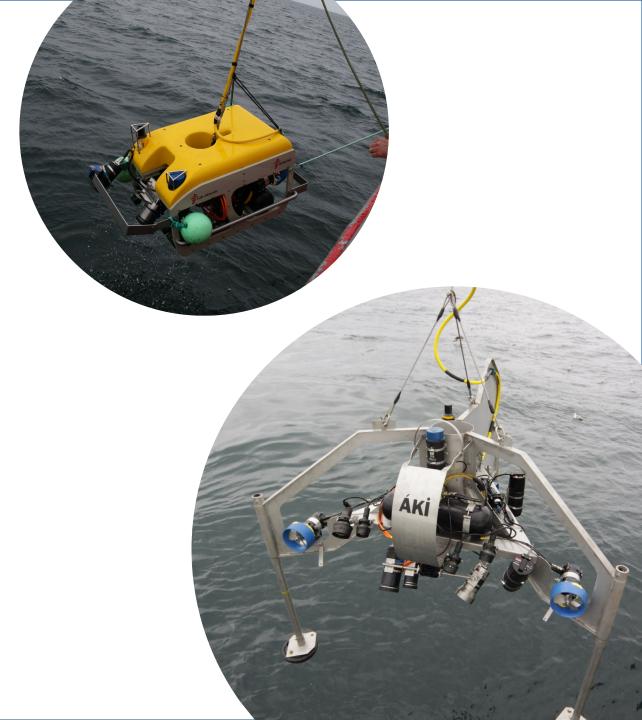
Petrún Sigurðardóttir and Steinunn H. Ólafsdóttir

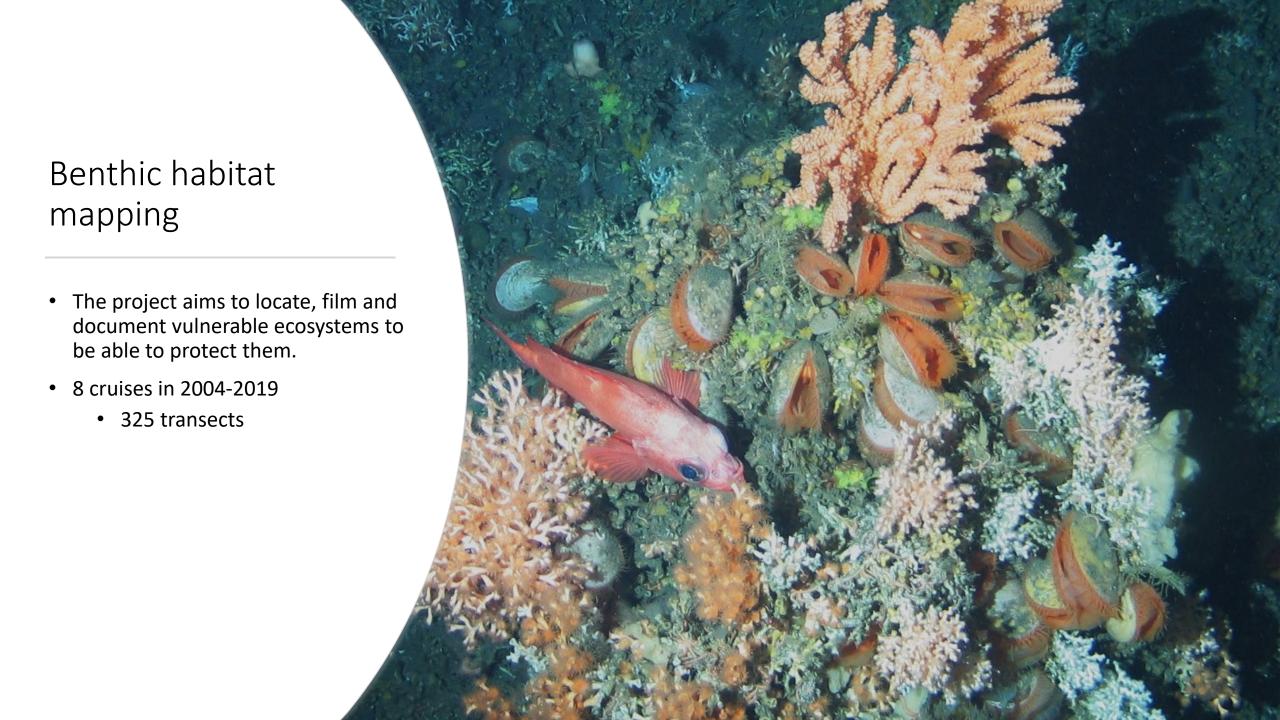


Filming on the seafloor

- ROV or tripod
 - Only images or video, no sampling
- ROV transects make it difficult to calculate field of view (2004-2009)

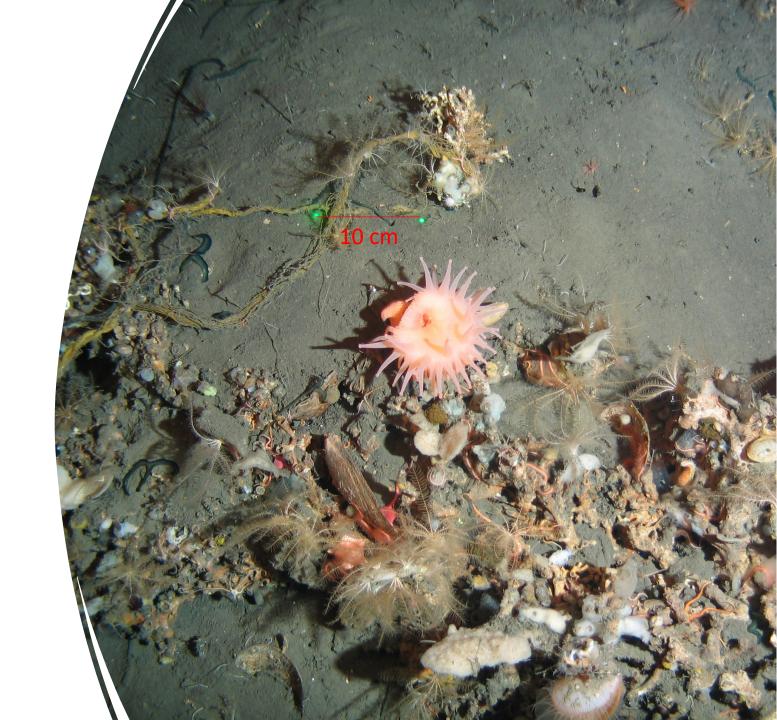






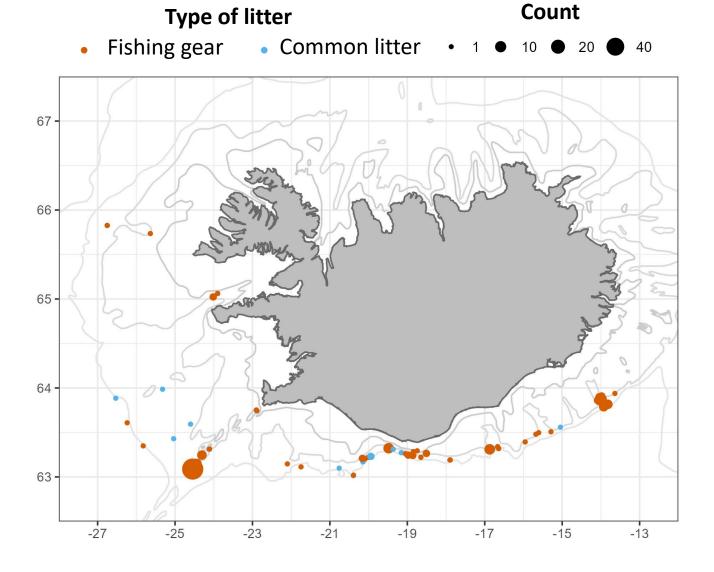
Methods

- Lazer pointers
 - Measured 25 images
 - Average field of view is 1,2 ± 0,38 m
- Transect lengths 160 4500 m
 - Average length 900 ± 623 m
- ~0,4 km² area filmed



Locations

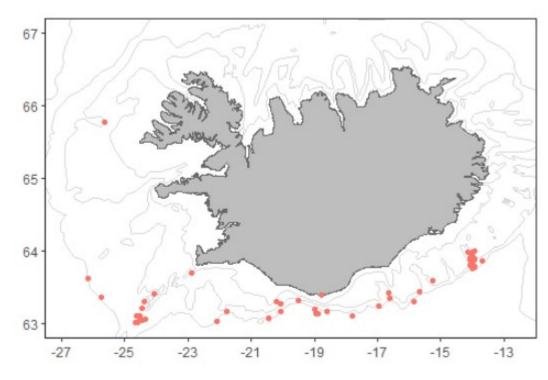
- Transects mostly in the south and west
 - Most on common fishing grounds
- Litter found on 22% of stations
 - 15 of 21 areas had litter
 - A total of 307 litter items



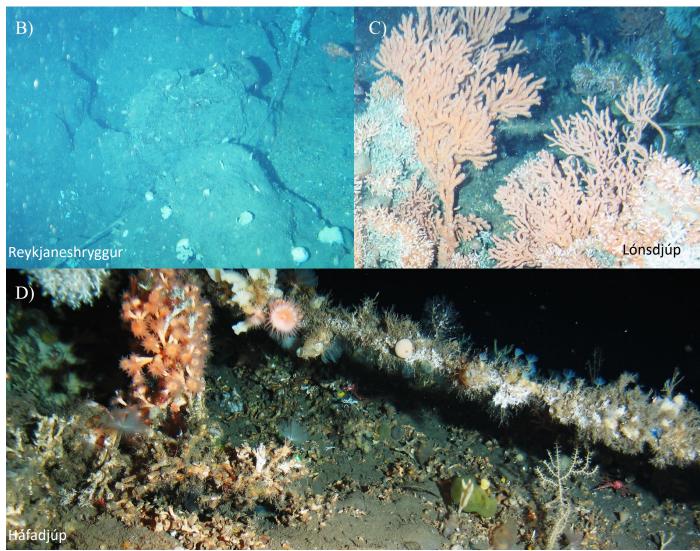
Most common litter

- Fishing gear most abundant (94,1%)
 - Longline 80,5%
 - Trawlnet, wires and ropes 10,5%
- 18 units of general litter (5,9%)
 - Mostly plastic (2,6%)
- 92% of all litter was plastic
 - Assuming all longlines are made of plastic

Type of litter	n	Proportion (%)				
FISHING GEAR						
Longline	247	80.5				
Trawlnet	11	3.5				
Wires	11	3.5				
Ropes	11	3.5				
Cuttings	6	2				
Other gear	3					
SUM	289	94.1				
GENERAL LITTER						
Aluminum cans	2	0.7				
Other metals	2	0.7				
Plastic bags	1	0.3				
Sheet plastic	5	1.6				
Other plastic	2	0.7				
Cardboard	3	1				
Wood	1	0.3				
Other litter	1	0.3				
Undefinable	1	0.3				
SUM	18	5.9				
Total SUM	307	100				

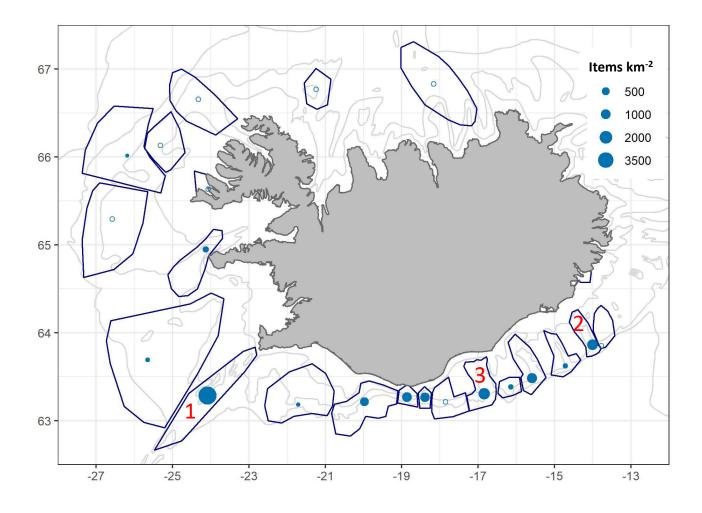


Longlines



Litter density

- Only calculated in 2010-2019
 - ROV vs. tripod...
- Average 869 items km⁻²
- Reykjaneshryggur, Lónsdjúp and Skeiðarárdjúp have most litter
- Small area filmed overall...



Top 3		Area filmed (km²)	# of litter items	Items km ⁻²
Reykjaneshryggur	1	0,030	151	5094
Lónsdjúp	2	0,036	49	1150
Skeiðarárdjúp	3	0,007	10	1030

Protecting vulnerable ecosystems

