

Netinnovatie Kottervisserij

Verbeteren selectiviteit van de nederlandse kottervisserij

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Waar staan we?

- Ontwerpfase
 - 2014: Inventariseren ideeën
 - Uitwerken ideeën
 - Modelnetten testen in Flumetank Hirtshals
- Test prototype aan boord
 - Trial & error tot tevredenheid
 - Zelf bemonstering
- Gedetailleerde vangstvergelijkingen
 - Wetenschappers aan boord
 - Aanlandingen en Discards gemeten in lengte en gewicht

Data verwerking

- Data verwerking en analyse
 - Controleren en visualiseren (outliers)
 - Software code ("SAS" or "R")
 - Boxplots en samenvattingstabellen
- Rapport
 - Internal review
 - External review (in het geval van publicatie)
 - Feedback opdrachtgevers

Betrokken schepen

- OD6
- GY57
- TX68
- TX36
- ARM22
- UK45

Geteste netconfiguraties

■ Tong 80 mm puls

- Scheidingspaneel

& twee kuilen - TX36

& ontsnappingspaneel - TX68

& twee kuilen en ontsnappingspaneel-
ARM22

■ Schol 100+ mm twinrig

- VM paneel OD6

- T90 kuil GY57

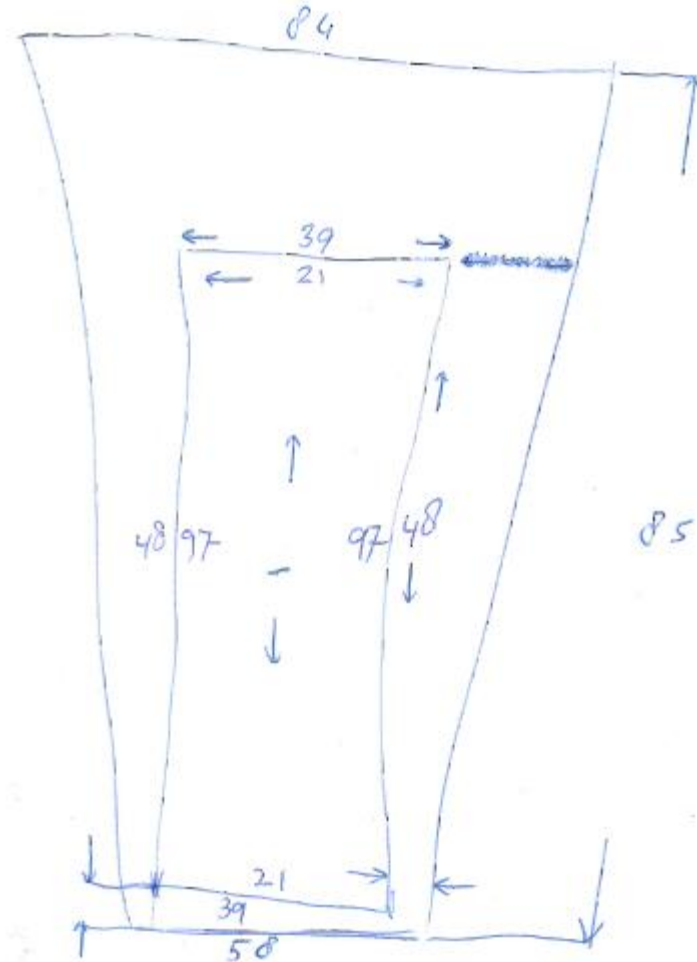
■ Flyshoot

-

OD6 - Twin-rig 100+ mm

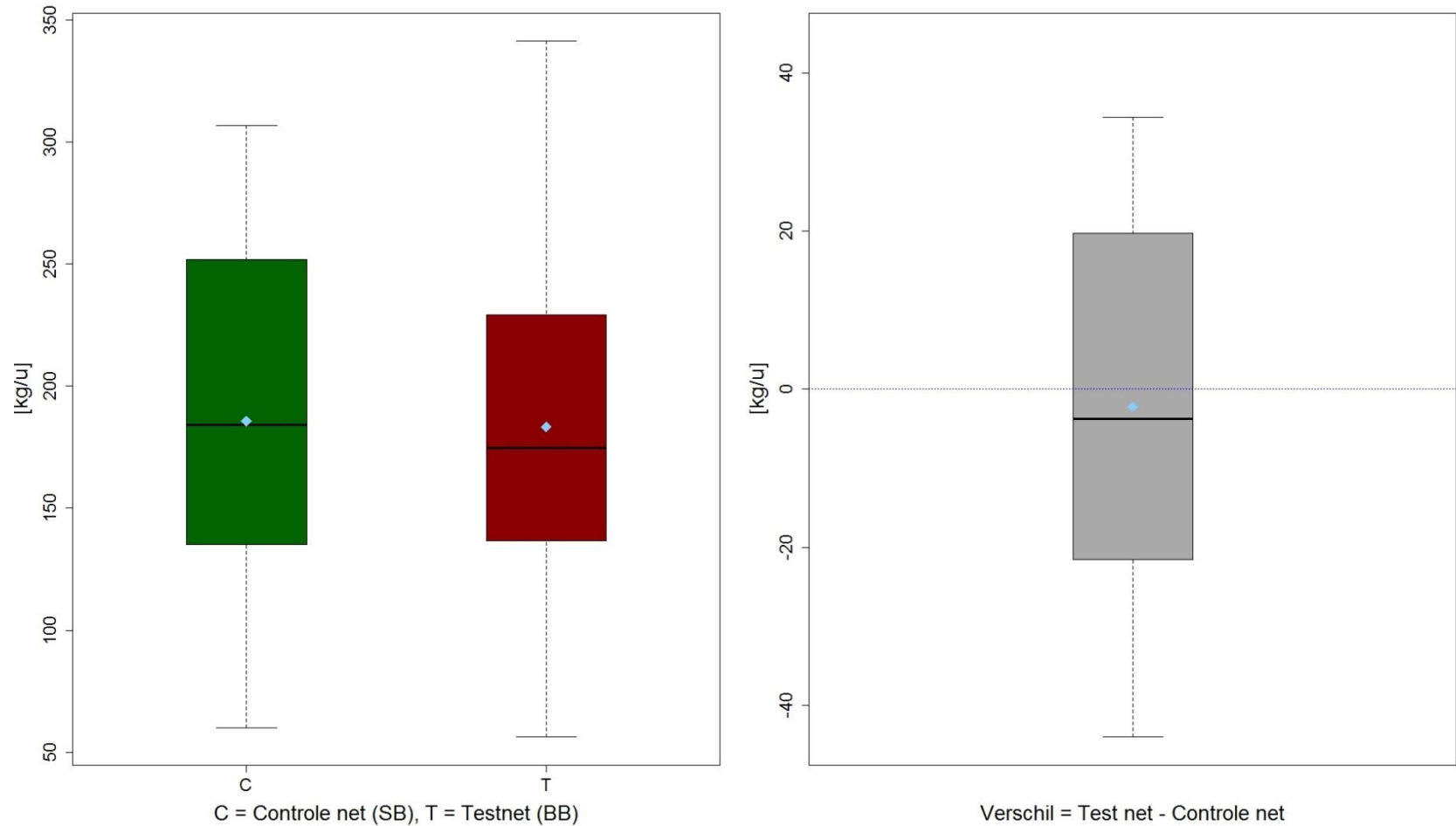
Testreis:

- Week 32, 2014
- 16 trekken
- Sb aangepast
- BB conventioneel



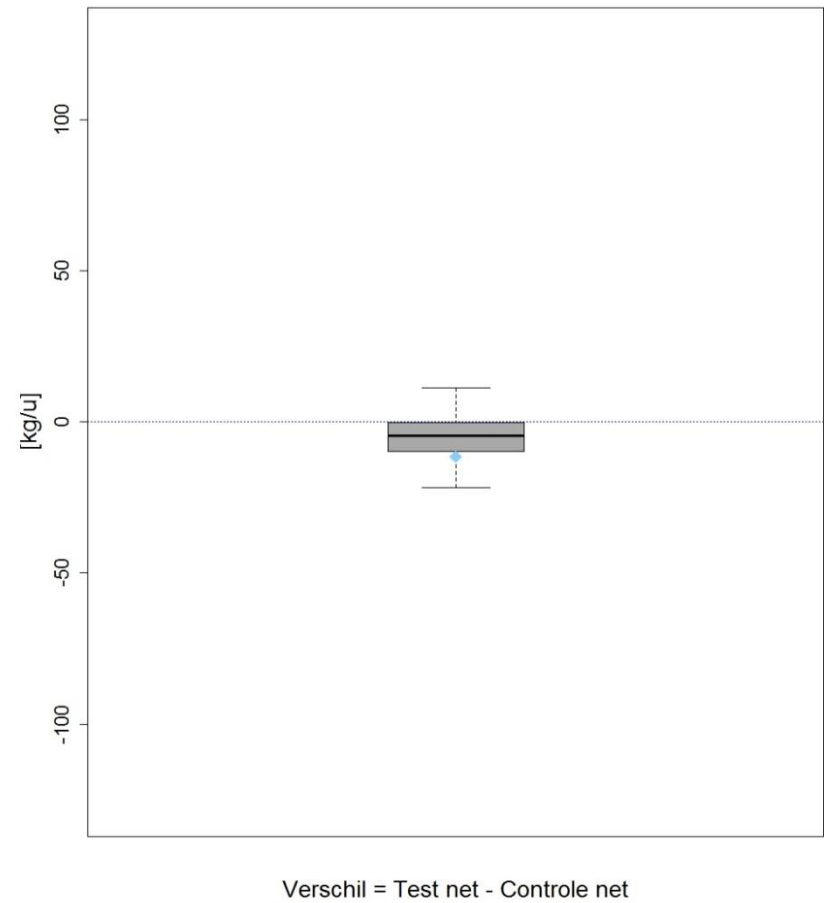
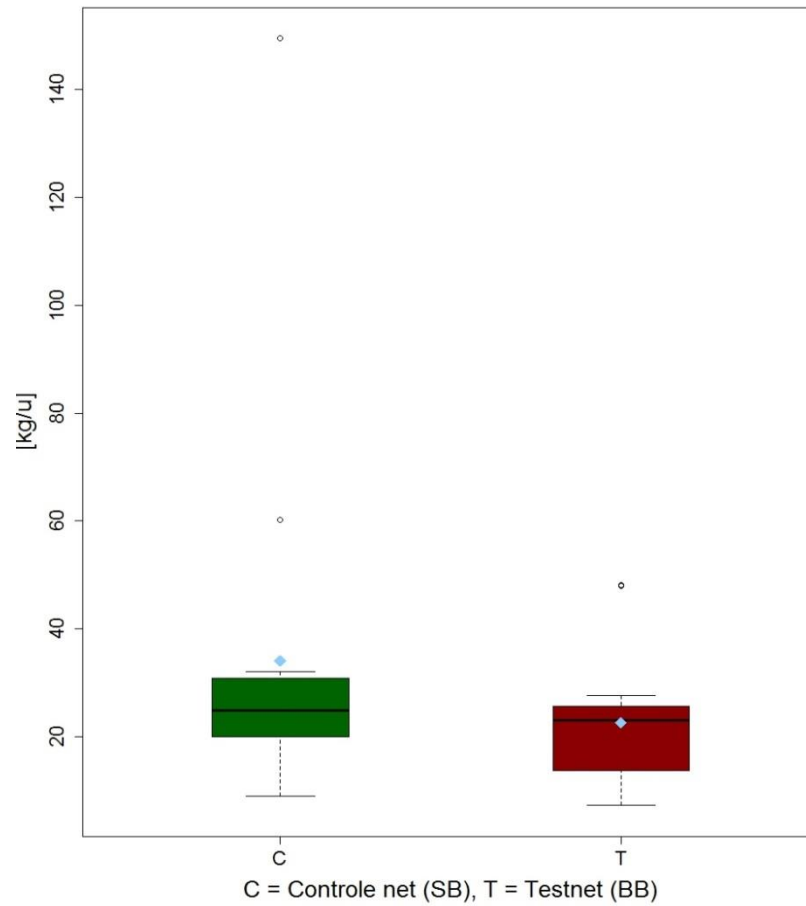
OD6 – maatse vangst

Boxplots I vis tot w OD6, wk 32 2014



OD6 – vis discards

Boxplots d vis tot w OD6, wk 32 2014

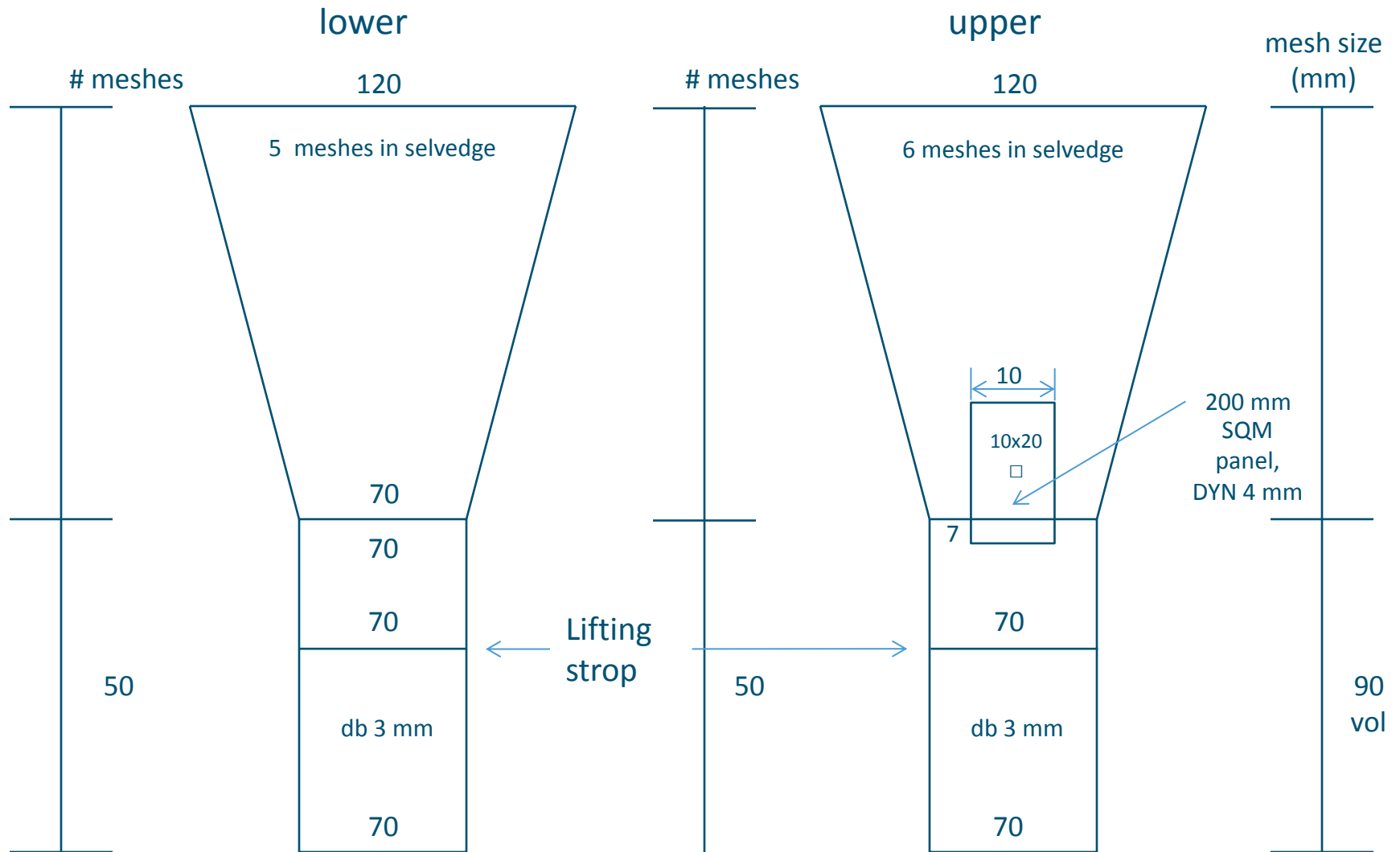


OD6

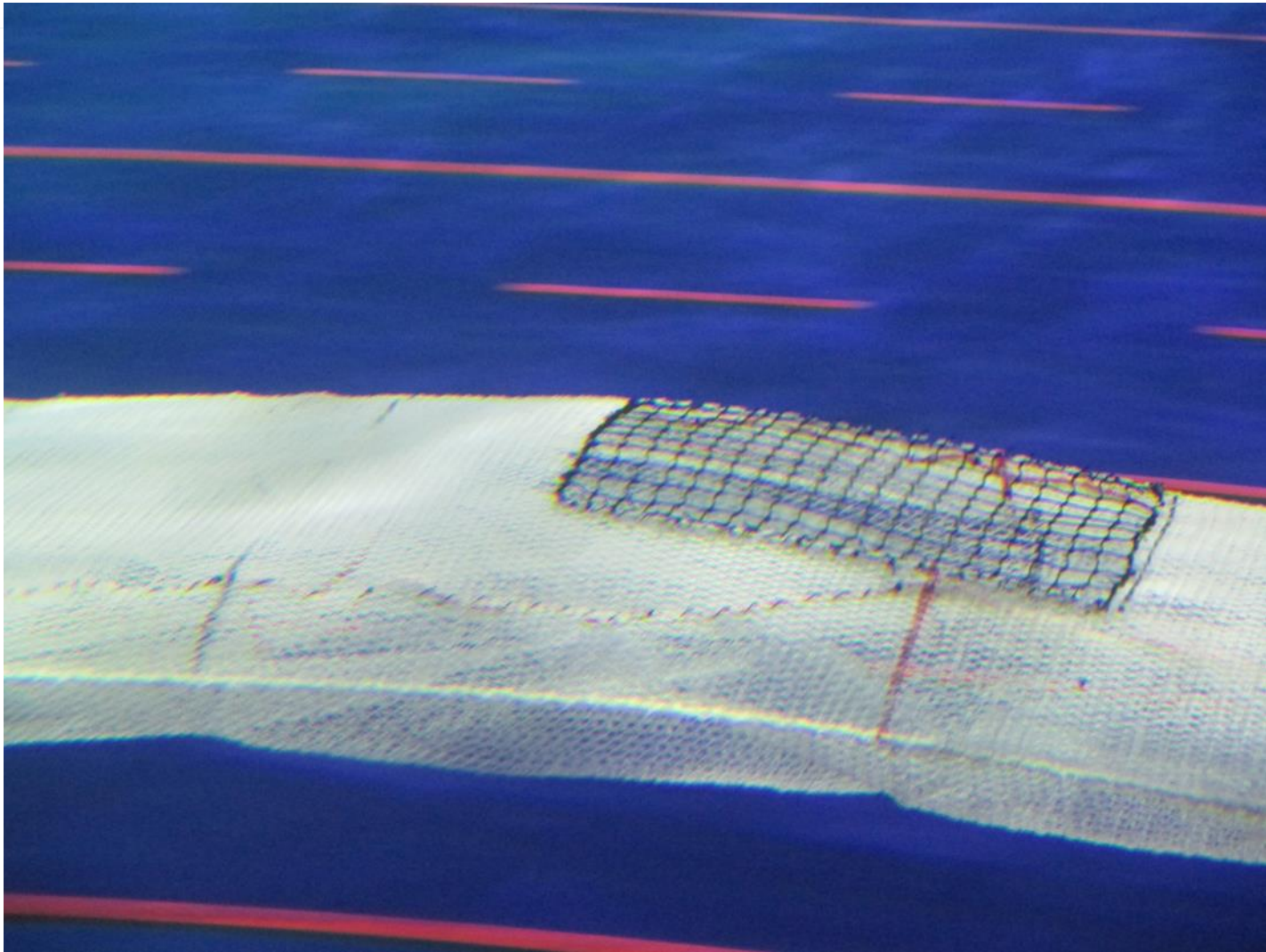
■ Schar en Poon!

Ship	Item [kg/h]	n	C.mean	C.sd	T.mean	T.sd	dif	sd	TCratio	Ftst	Ttst
OD6	Discard fish	15	34	34	22.6	12.3	11.5	33.2	66.5	0.525	0.086
OD6	Landings fish	15	185.6	76.2	183.4	80	2.2	26.3	98.8	0.943	0.617

TX68 Scheidingspaneel

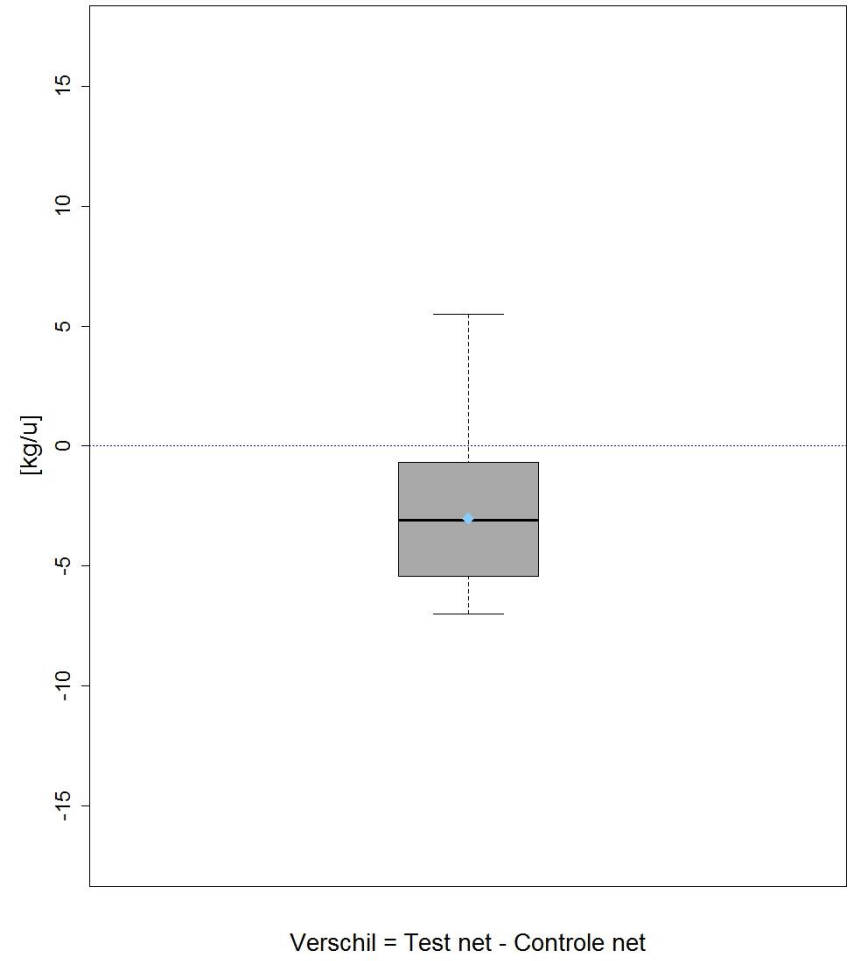
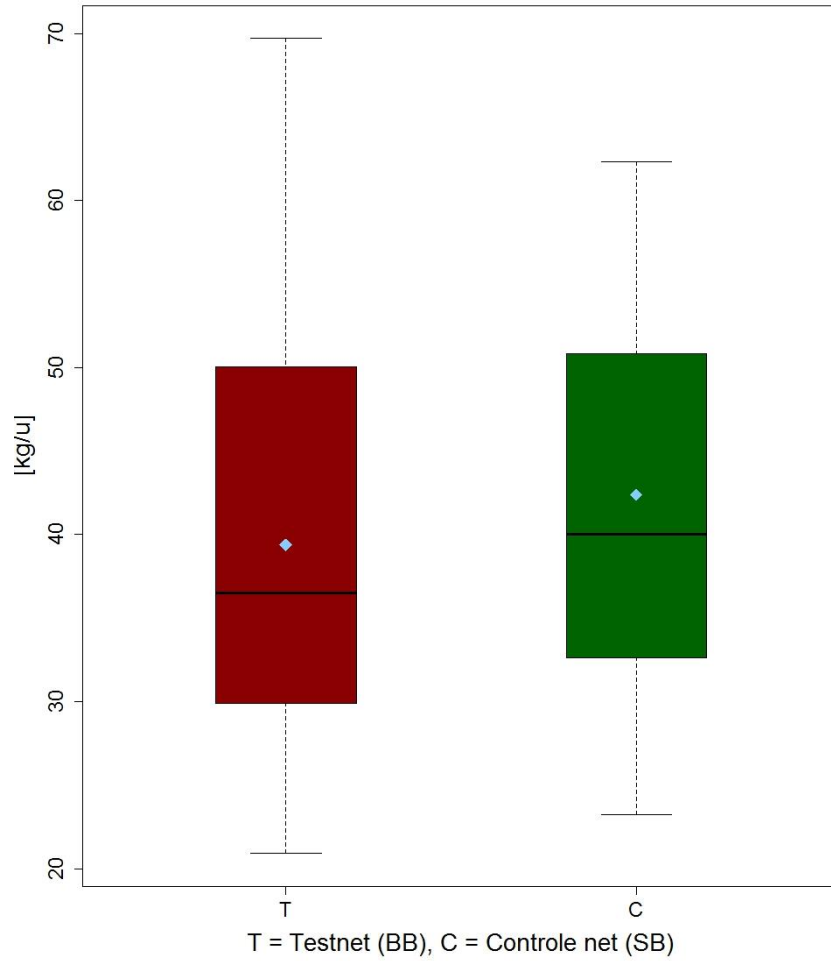


TX68



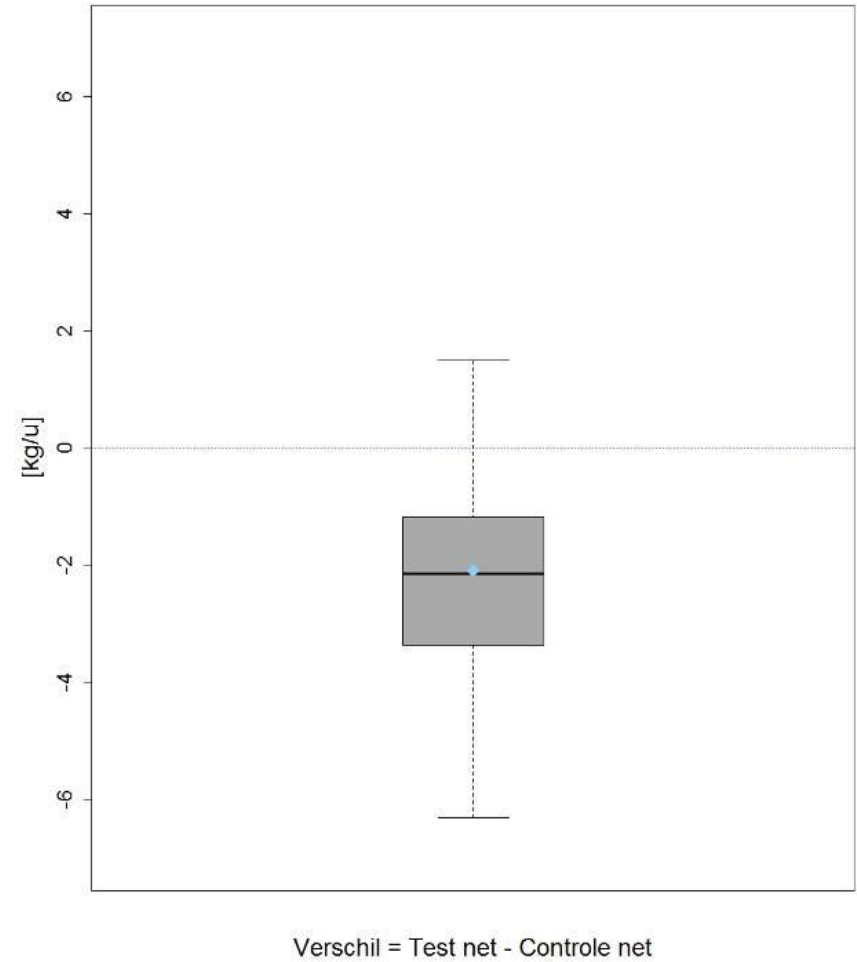
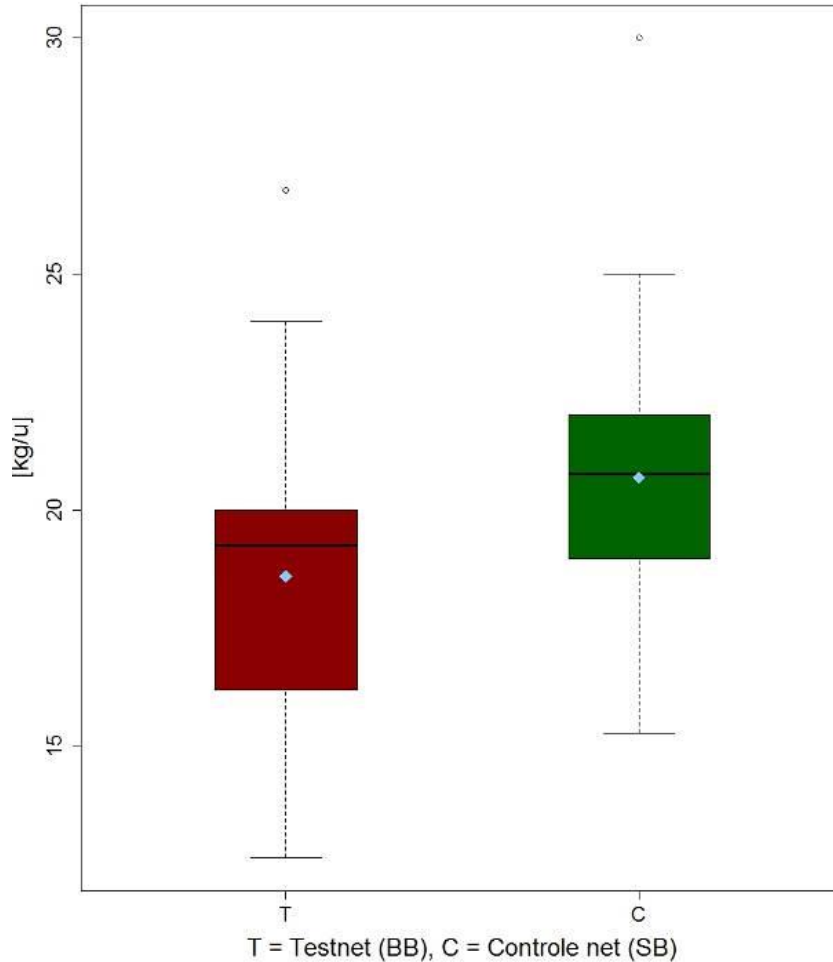
TX68 – maatse vangst

Boxplots Vis.Land.h TX68 wk 21 2015



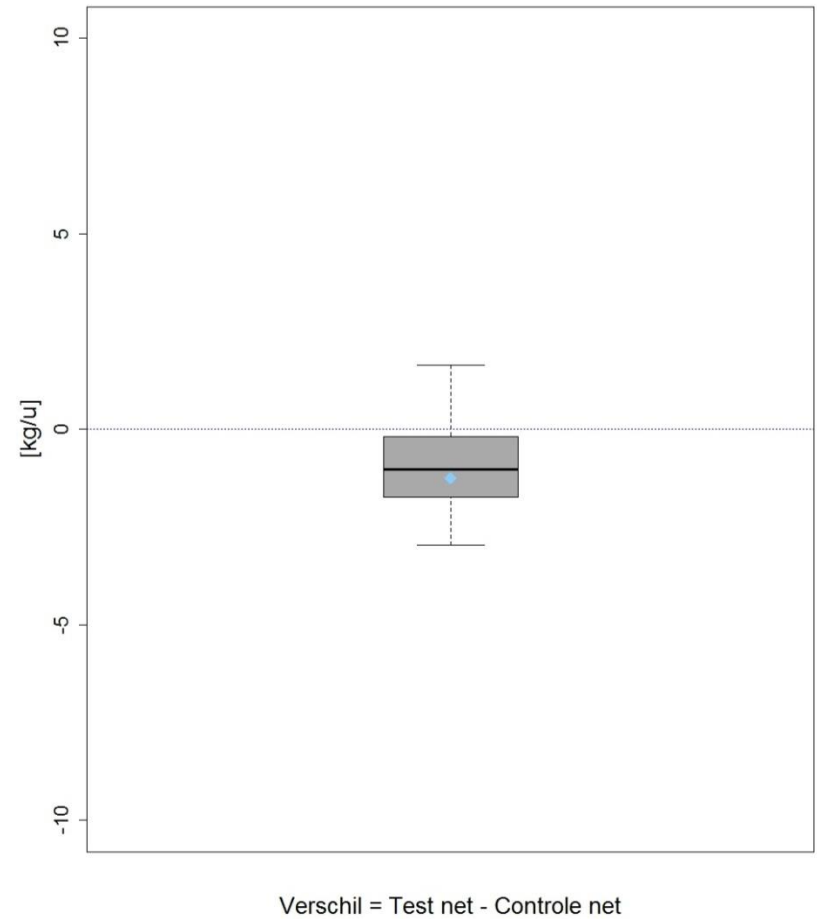
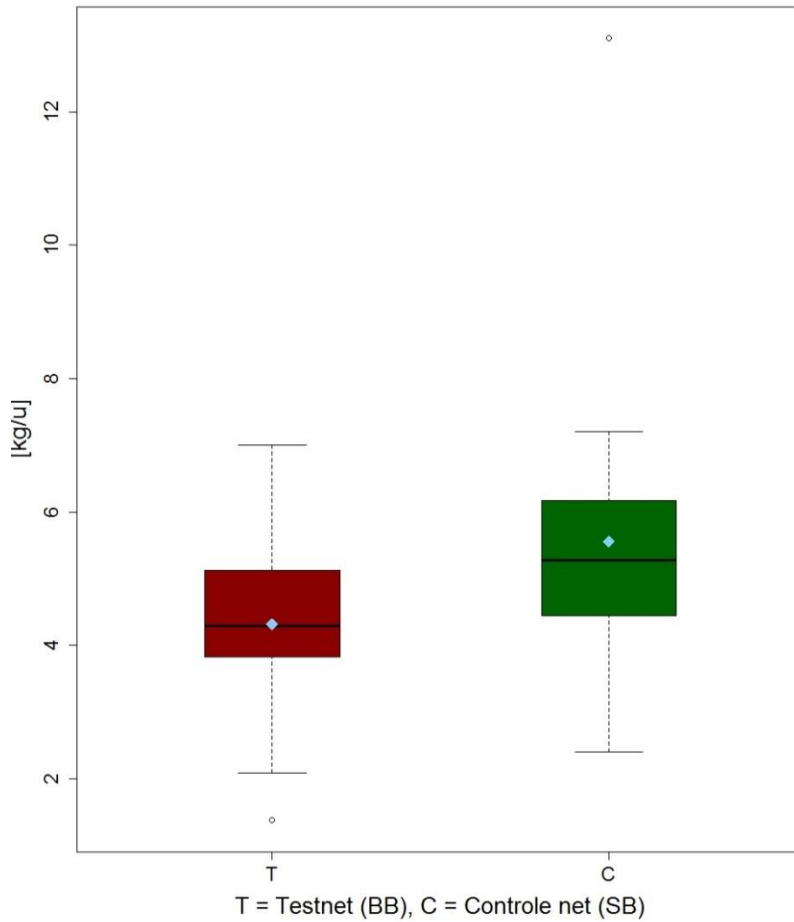
TX68 – maatse tong

Boxplots Tong.Land.h TX68 wk 21 2015



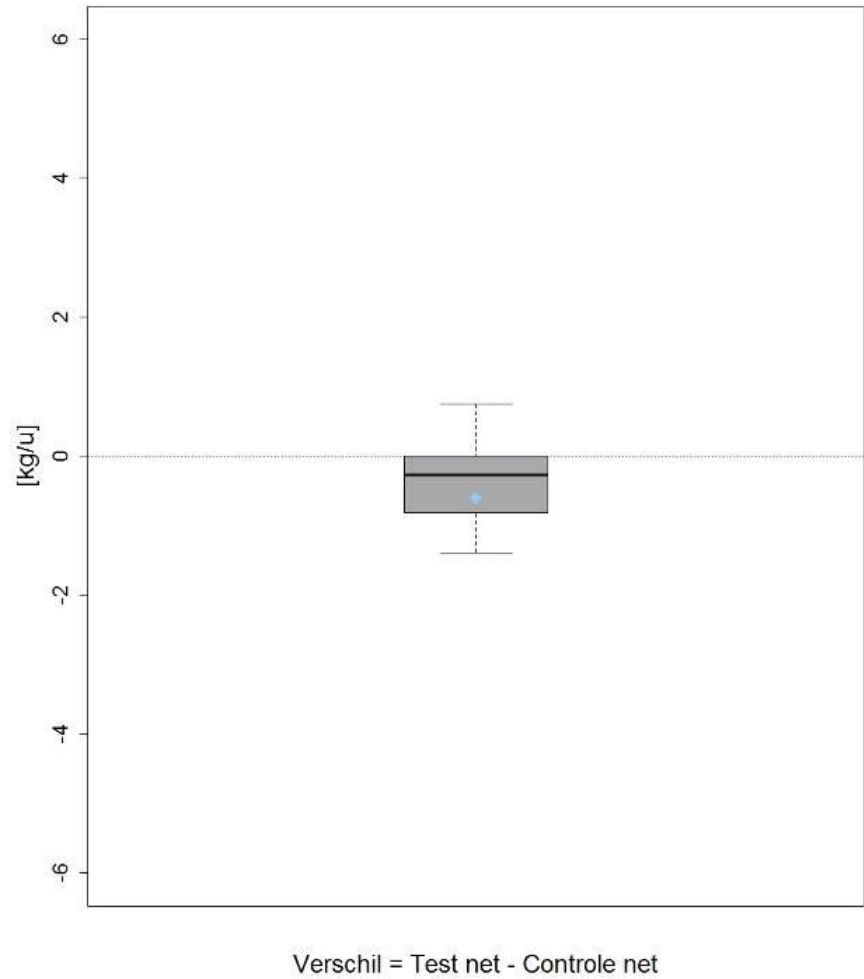
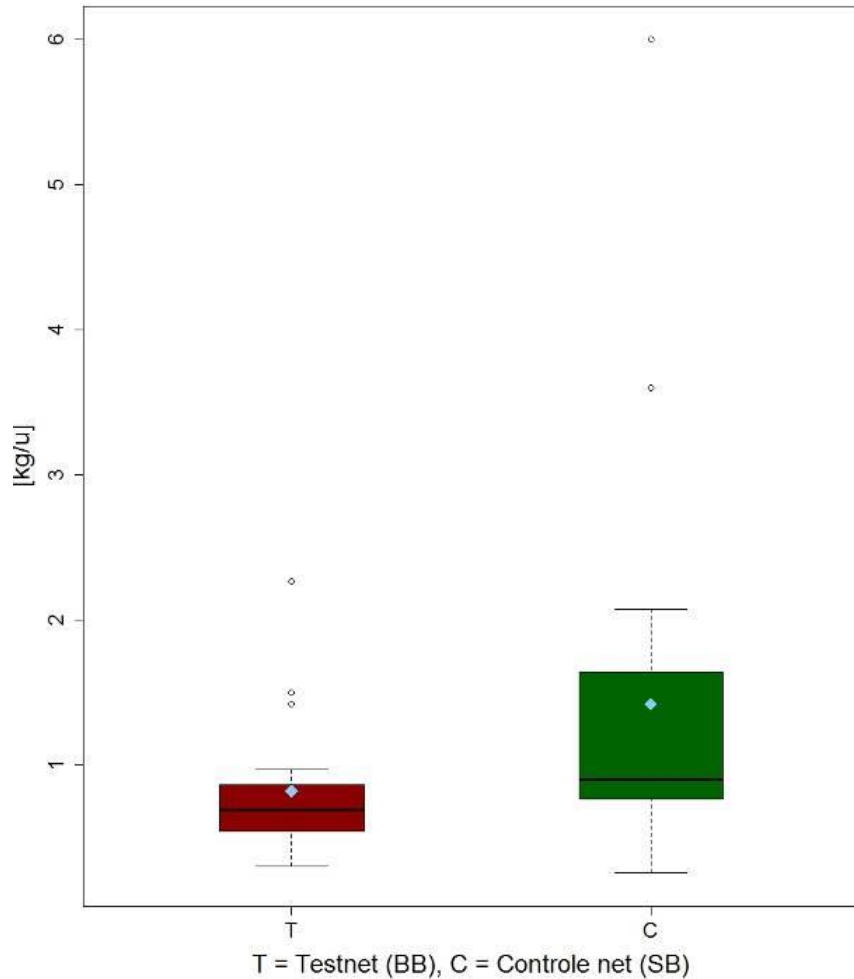
TX68 – vis discards

Boxplots Vis.Disc.h TX68 wk 21 2015



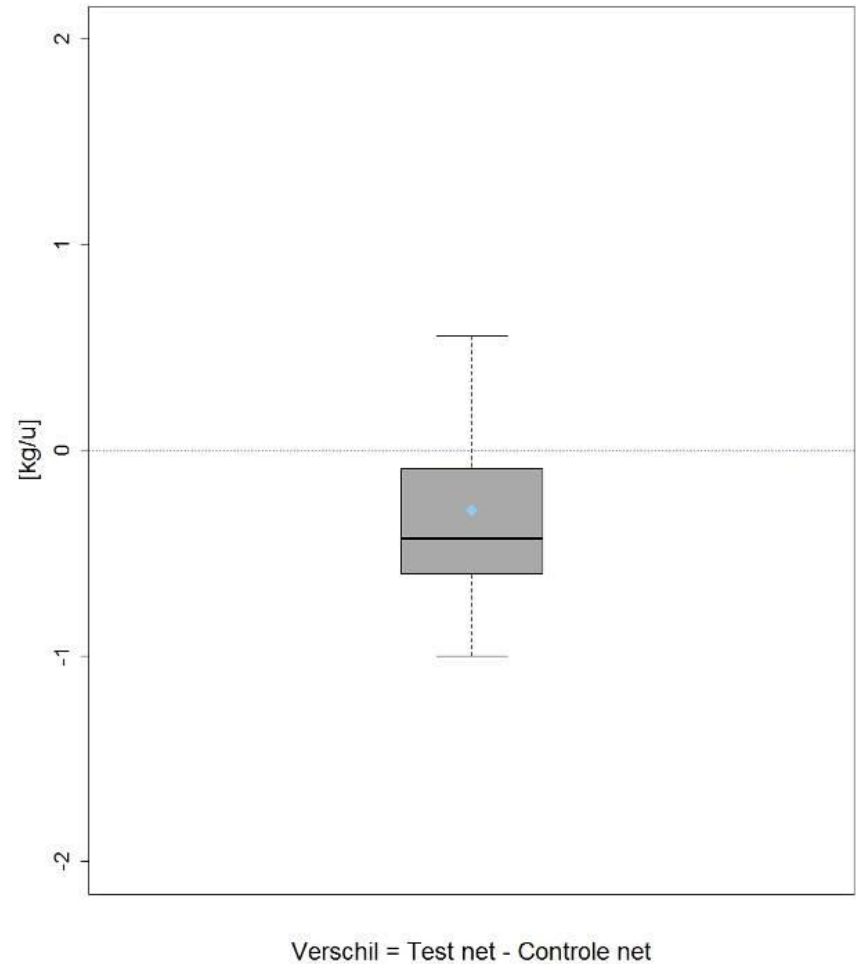
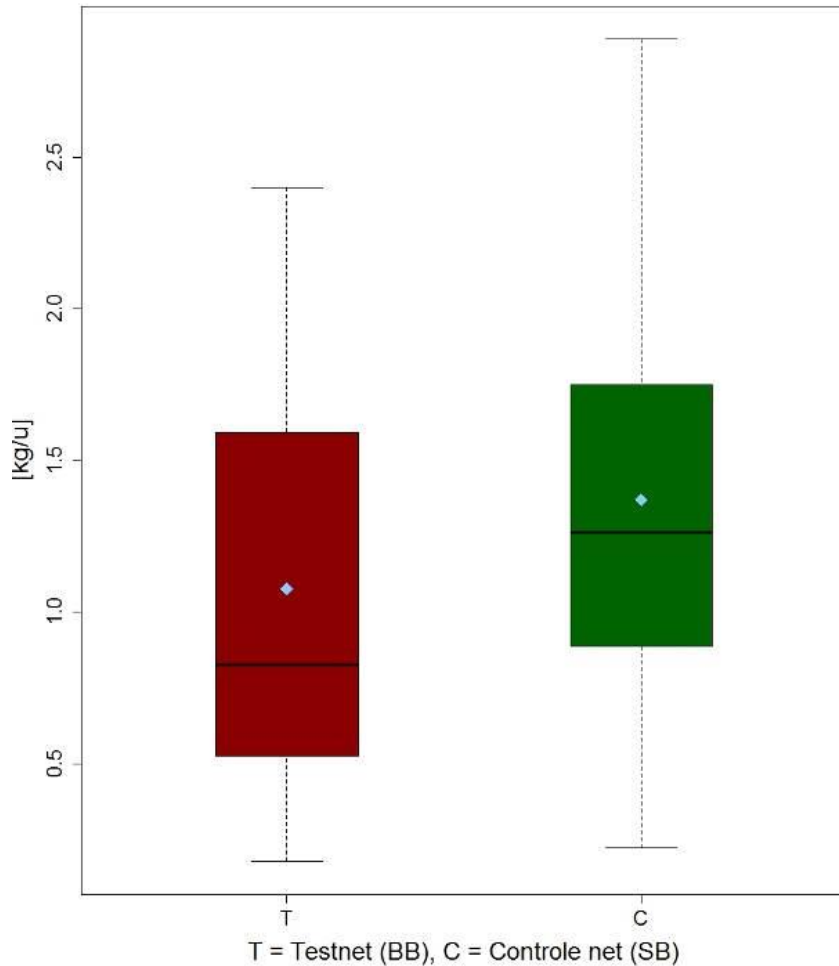
TX68 – schar discards

Boxplots Schar.Disc.h TX68 wk 21 2015



TX68 – schol discards

Boxplots Schol.Disc.h TX68 wk 21 2015

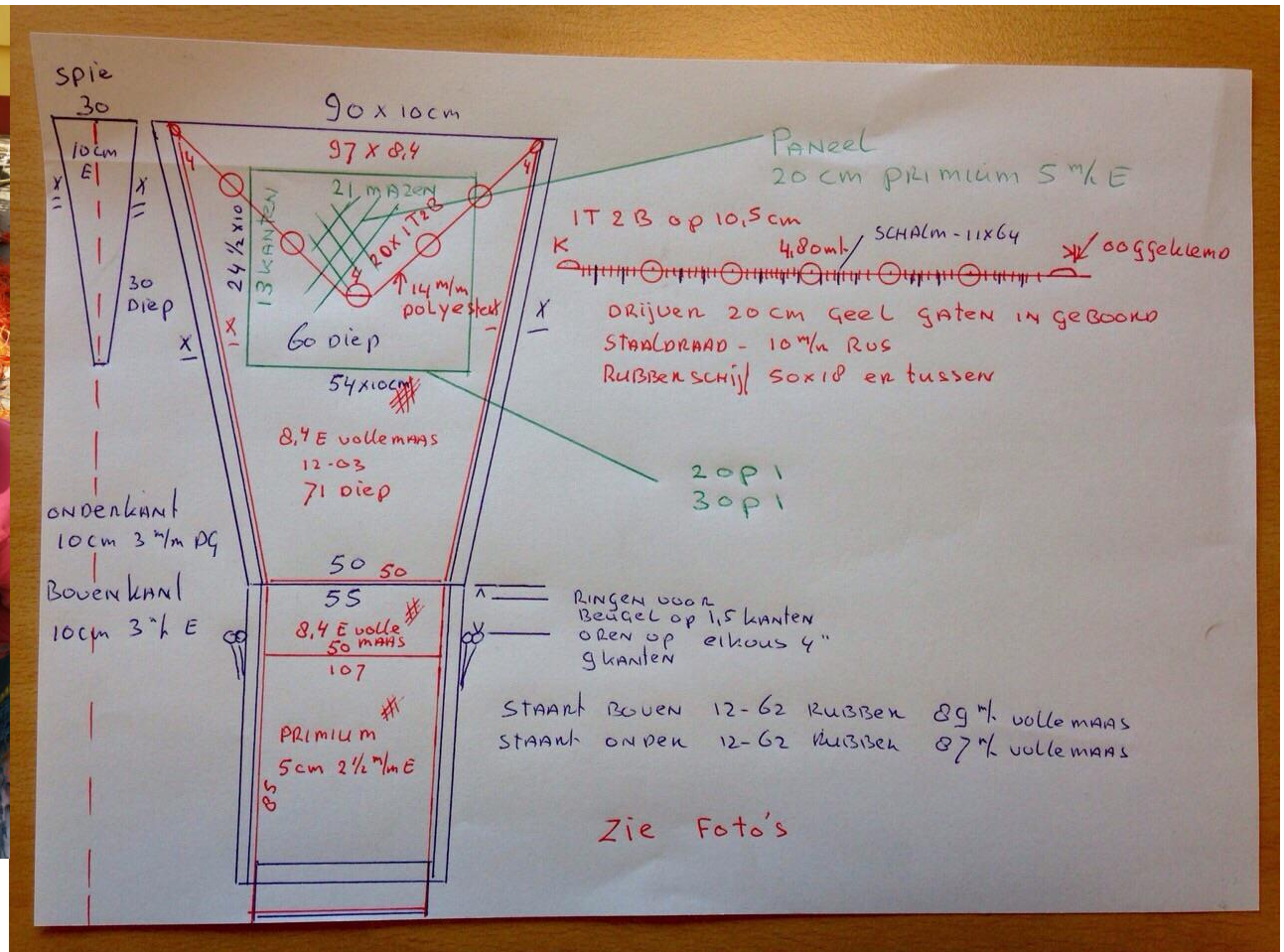


TX68

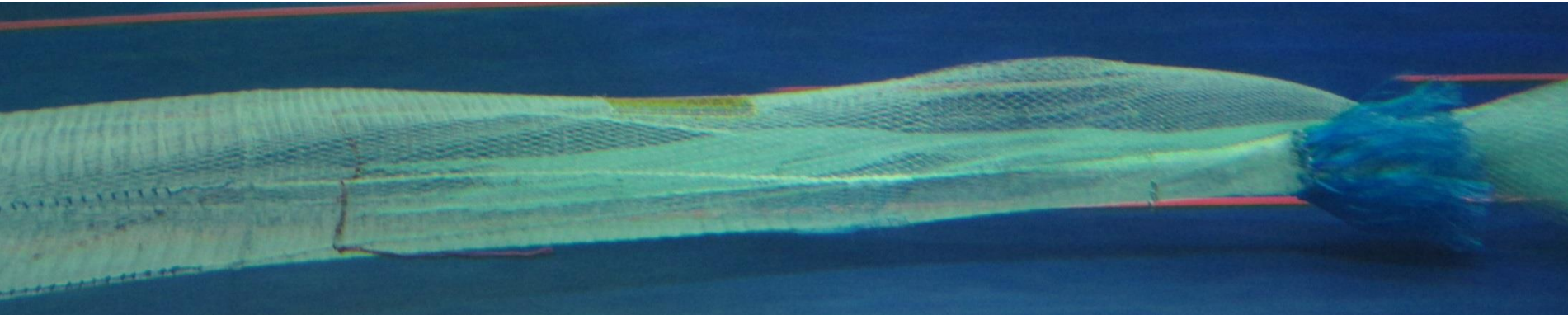
Ship	Item [kg/h]	n	C.mean	C.sd	T.mean	T.sd	dif	sd	TCratio	Fst	Ttst
TX68	Discard fish	19	5.6	2.2	4.3	1.4	1.2	2.2	76.8	0.642	0.004
TX68	Landings fish	19	42.4	11.7	39.4	13.4	3	5.1	92.9	0.504	0.002

ARM22

- Scheidingspaneel met een 80mm onder- en bovenkuil en in de bovenzijde een 200mm V-maas ontsnappingspaneel

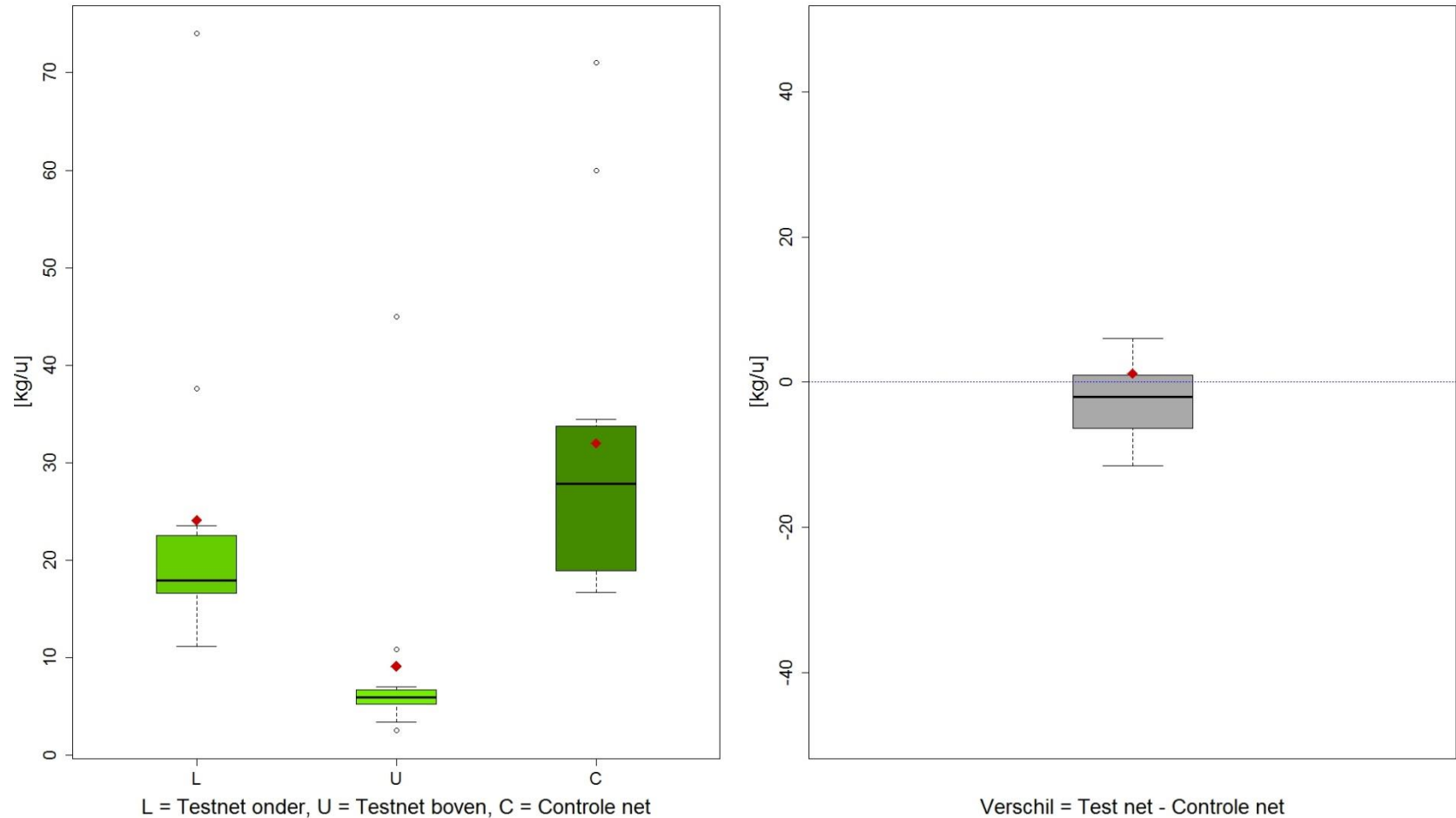


ARM22



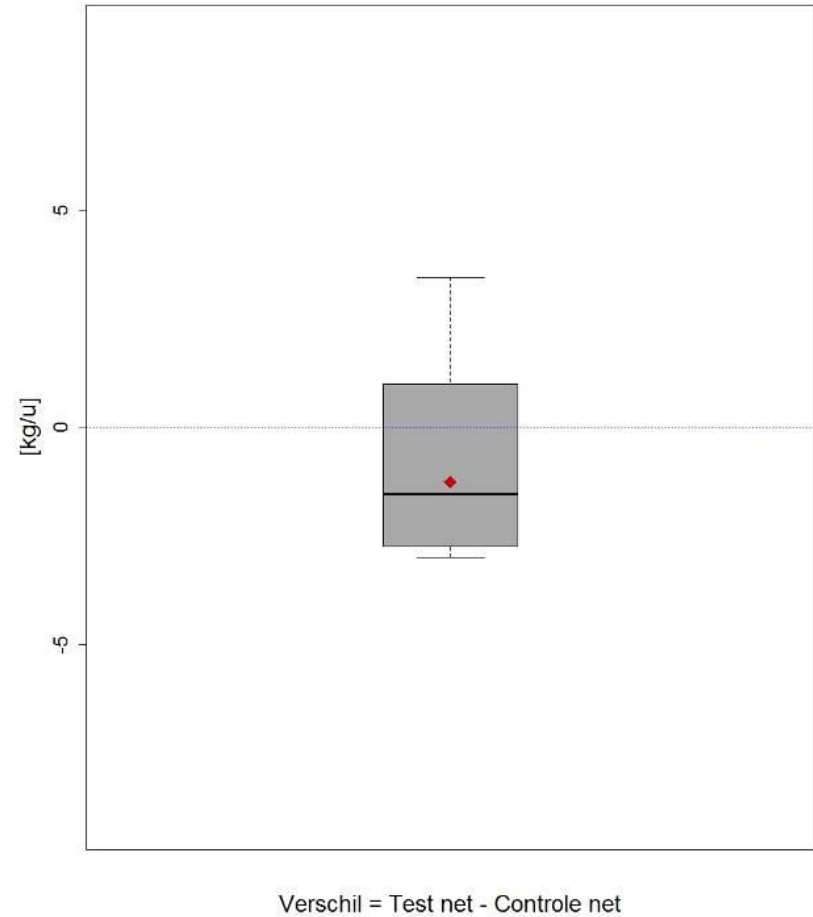
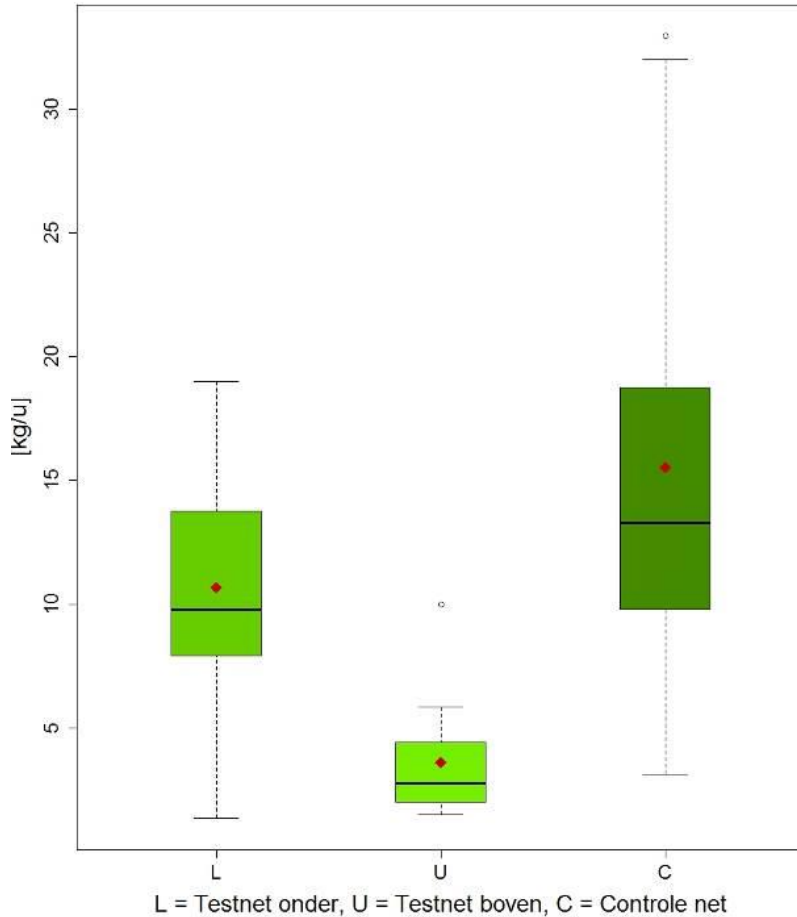
ARM22 – maatse vangst

Boxplots Vis.Land.h met onder en boven ARM22 wk 20 2015



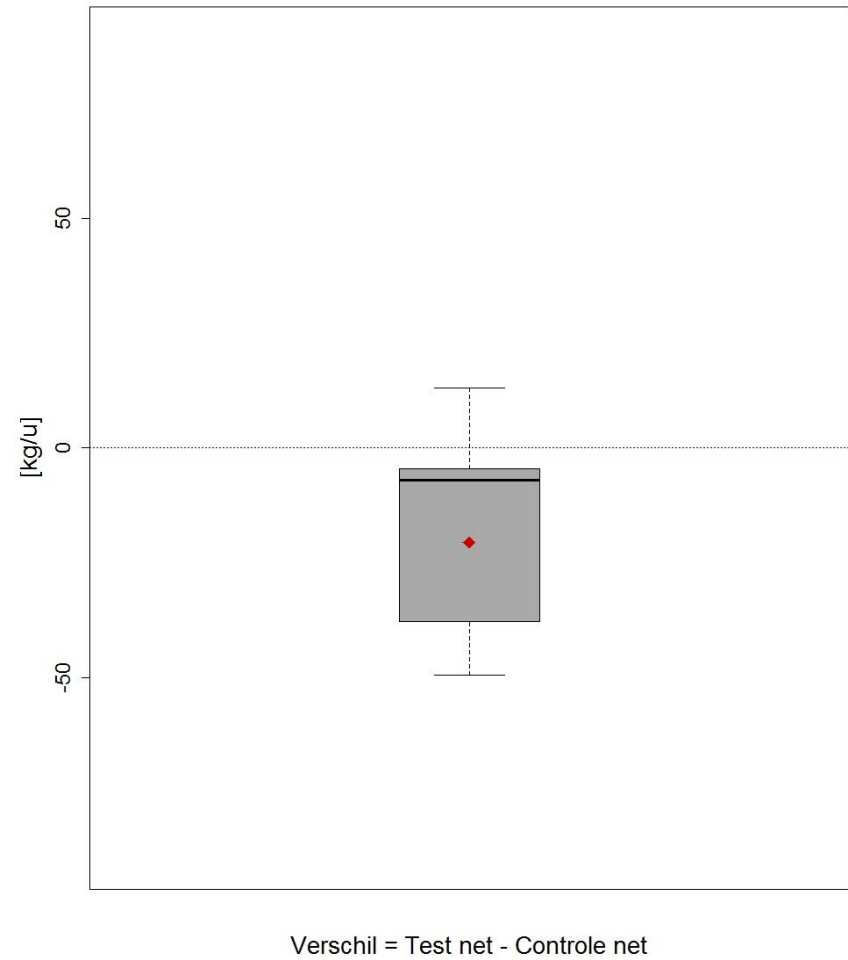
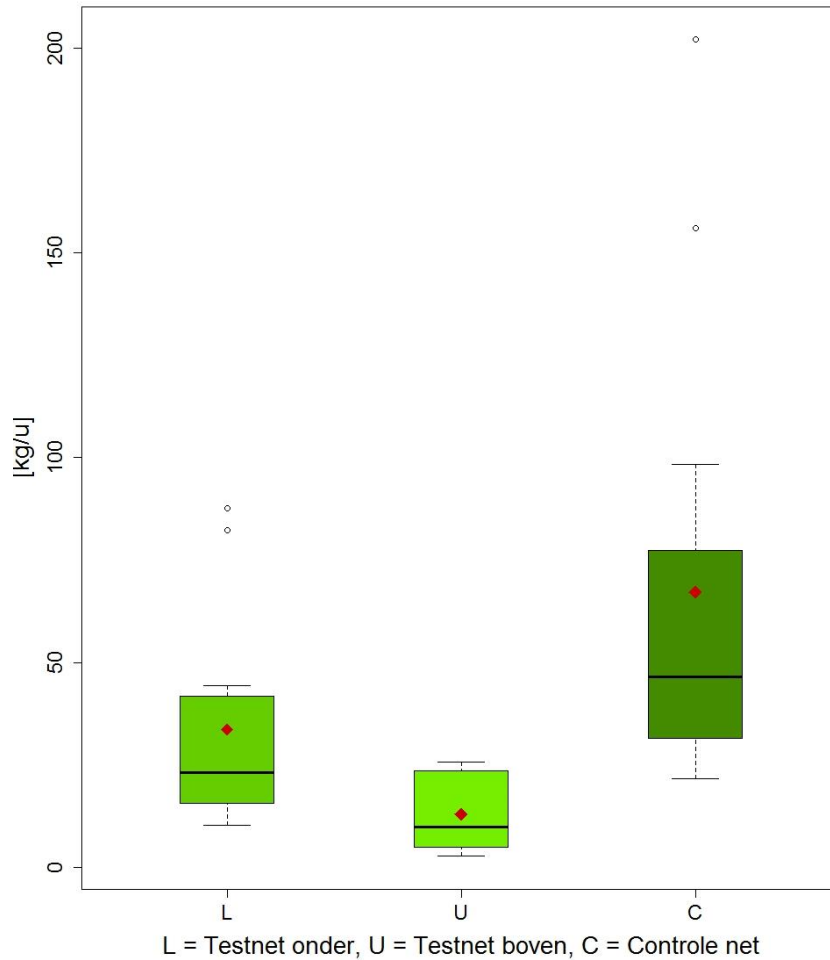
ARM22 – maatse tong

Boxplots Tong.Land.h met onder en boven ARM22 wk 20 2015



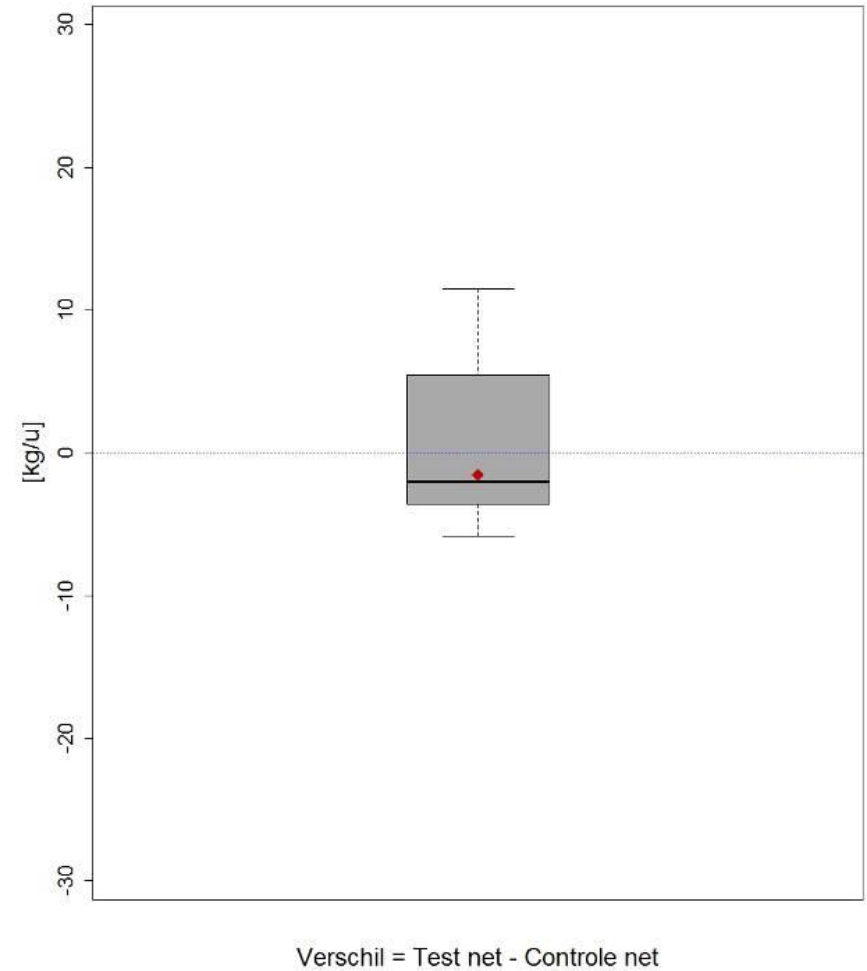
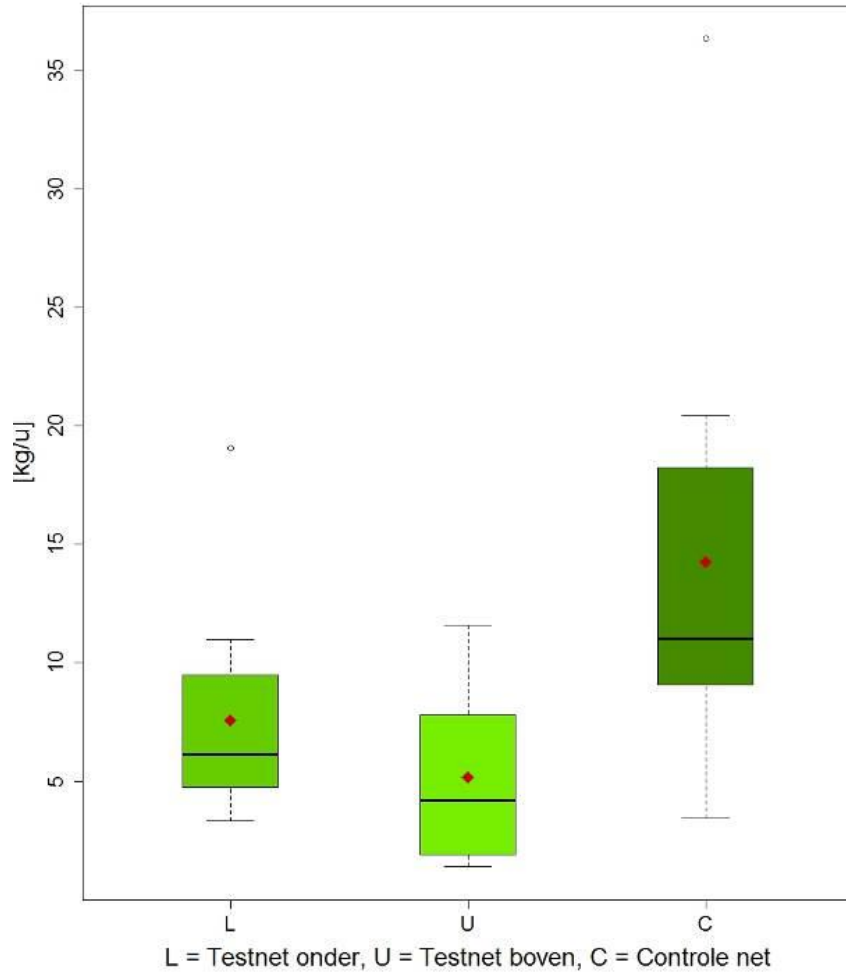
ARM22 – vis discards

Boxplots Vis.Disc.h met onder en boven ARM22 wk 20 2015



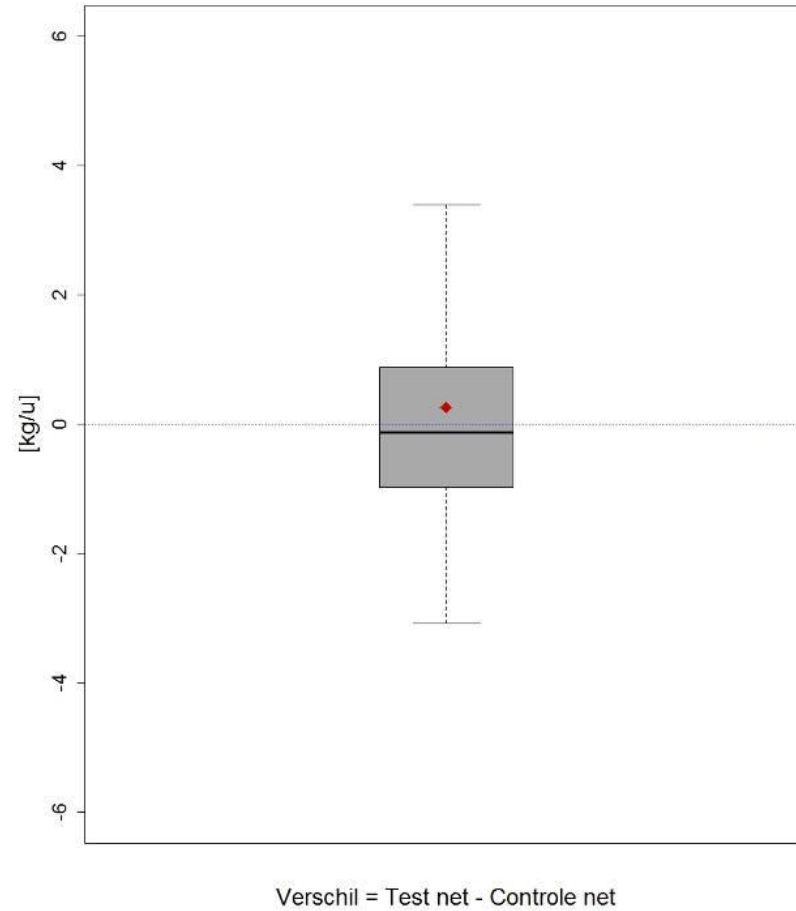
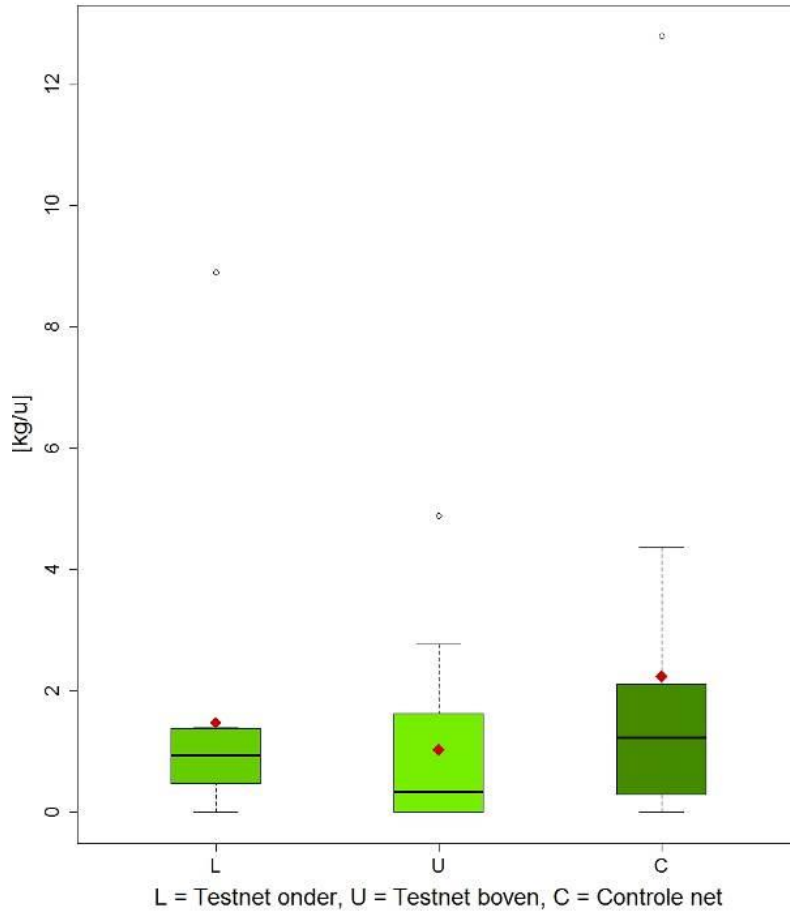
ARM 22 – schol discards

Boxplots Schol.Disc.h met onder en boven ARM22 wk 20 2015



ARM 22 – schar discards

Boxplots Schar.Disc.h met onder en boven ARM22 wk 20 2015

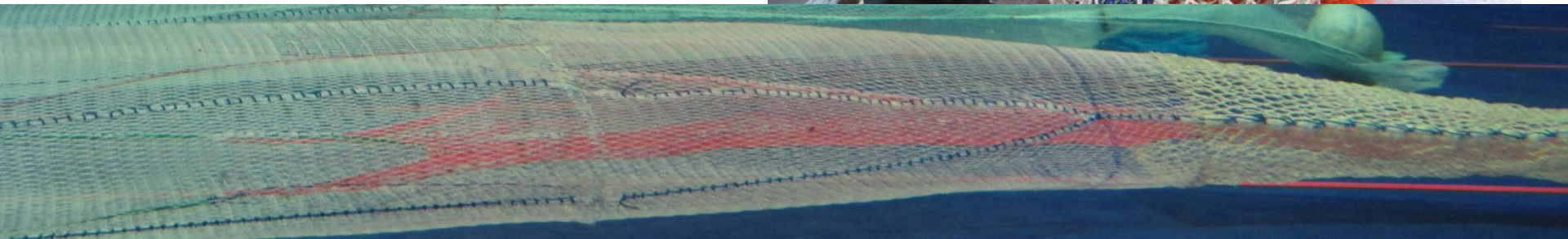


ARM 22

Ship	Item [kg/h]	n	C.mean	C.sd	T.mean	T.sd	dif	sd	T	Cratio	Ftst	Ttst
ARM22	Discard fish	12	67.2		57	46.6	32.4	20.5	28.9	69.3	0.704	0.009
ARM22	Landings fish	12	32		17	33.2	28.2	-1.2	15.6	103.8	0.66	0.665

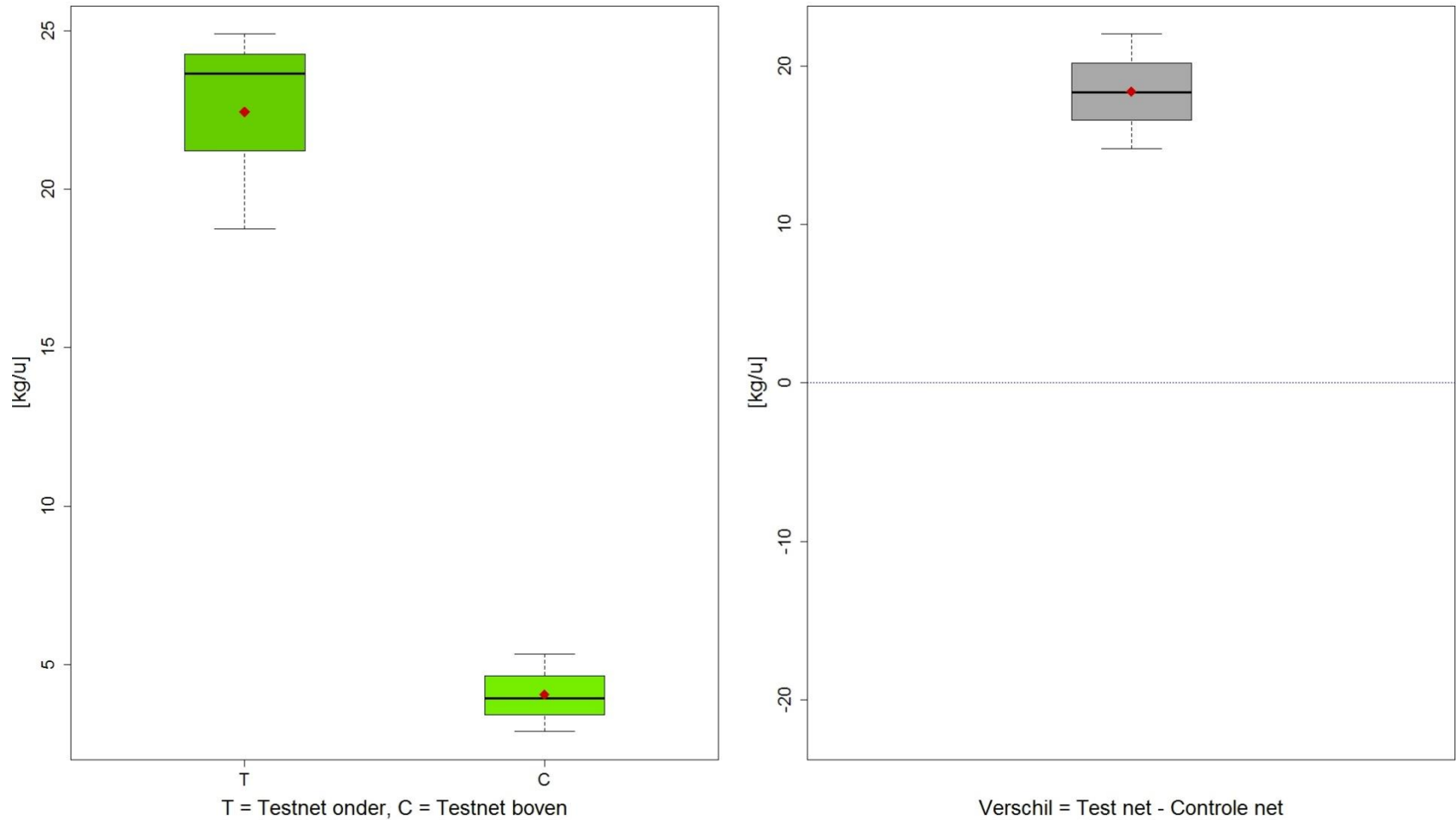
TX36

- Scheidingspaneel met een 80mm onder- en bovenkuil



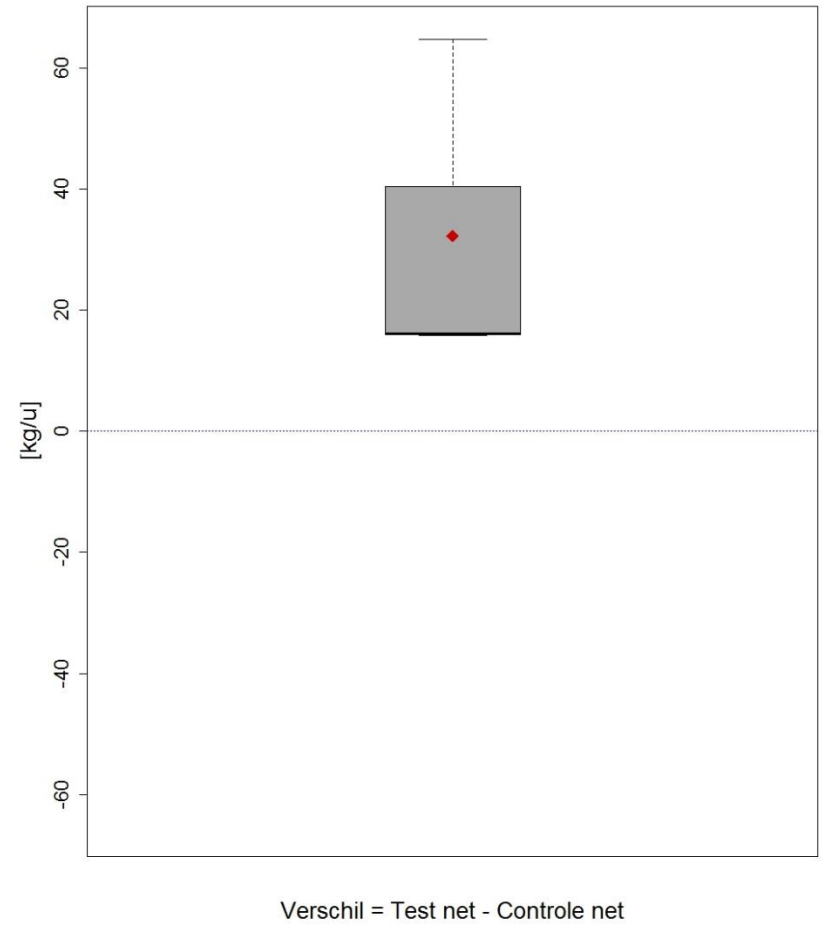
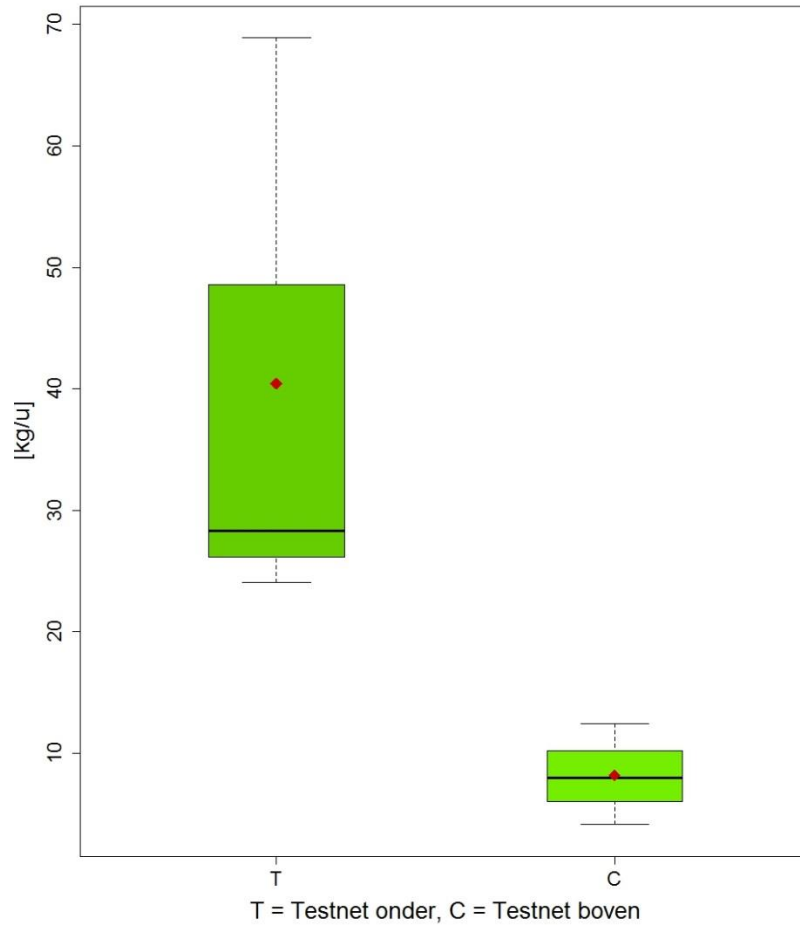
TX36 – maatse vangst

Boxplots Vis.Land.h met onder en boven TX36 wk 16 2015



TX36 – vis discards

Boxplots Vis.Disc.h met onder en boven TX36 wk 16 2015

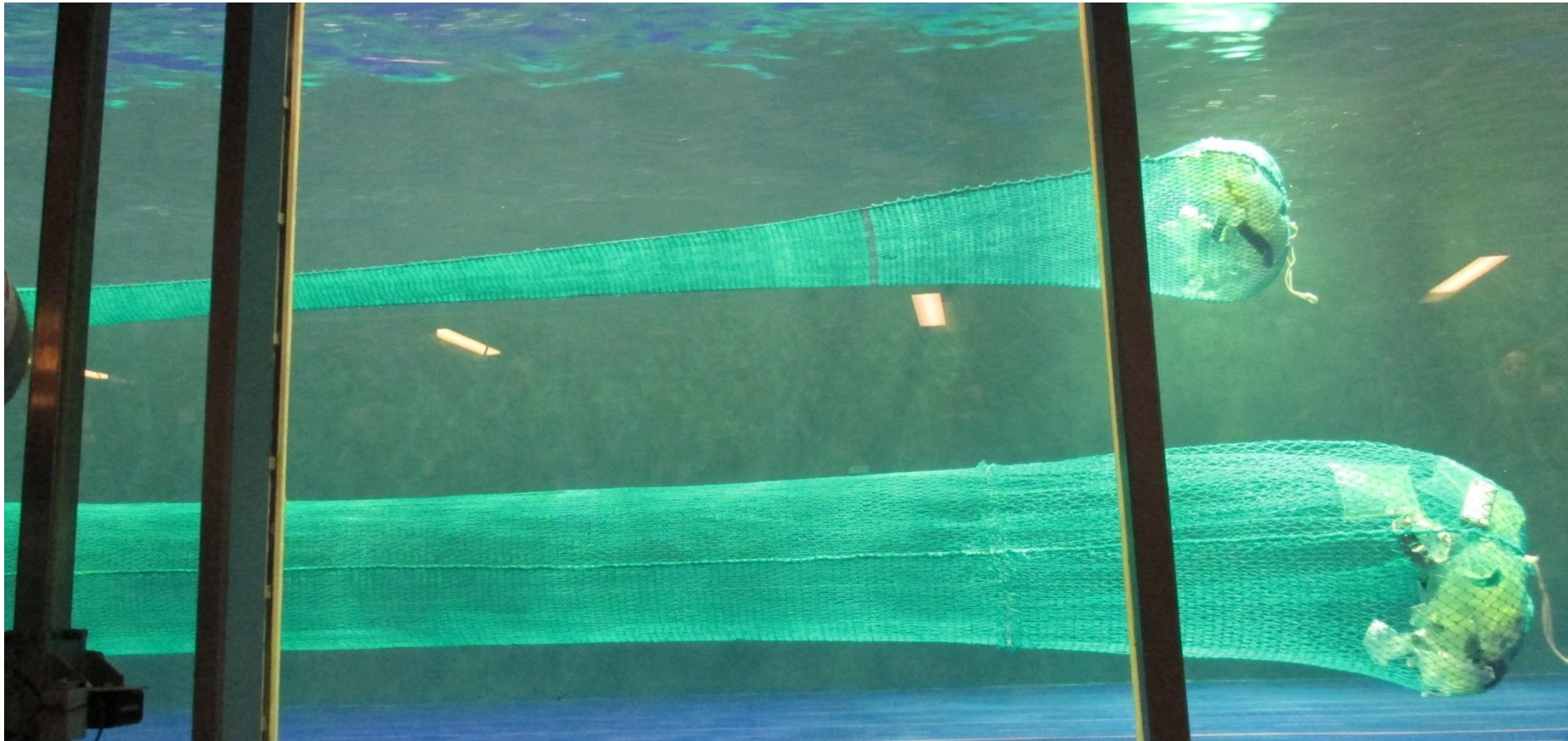


TX36

- Vis discard vermindering tot 25%
- Scheidingspaneel - 10% maatse tong gaat boven het paneel langs

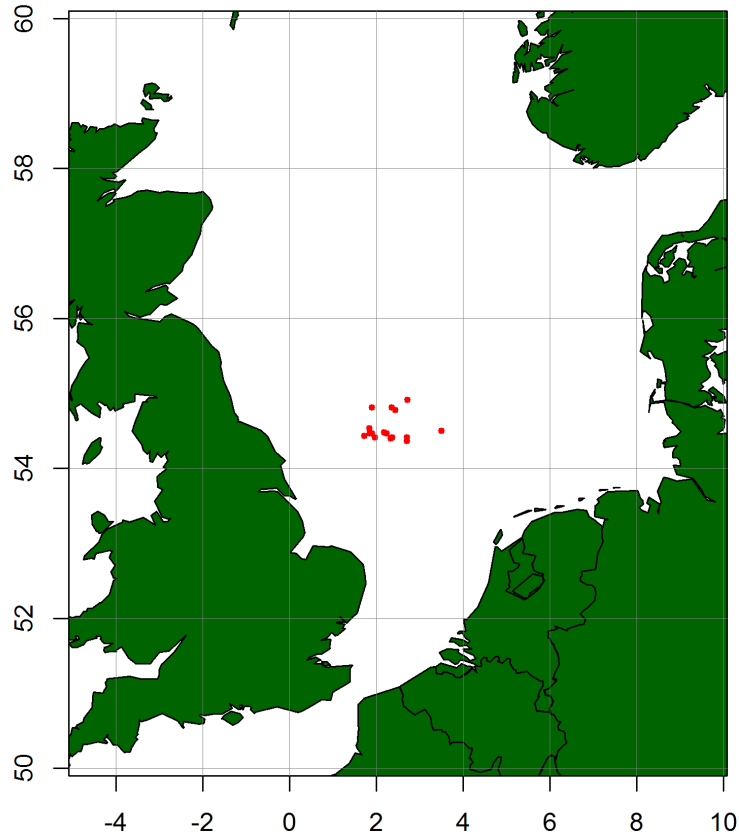
GY57

- Test 120mm kuil – T90 netwerk
- Controle 120mm kuil – normaal netwerk



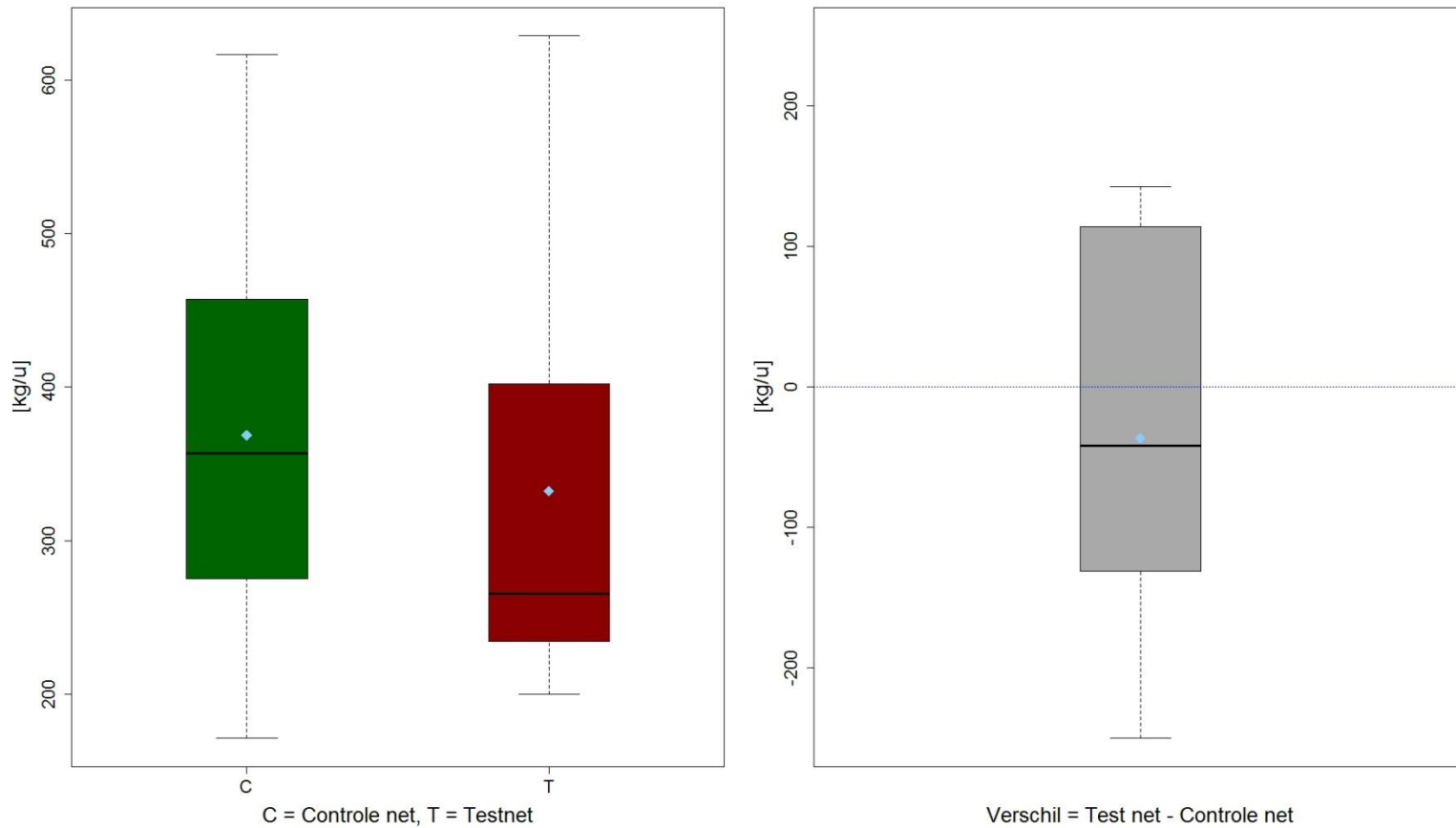
GY57 - Vislocatie

Visposities GY57 wk 16 2015



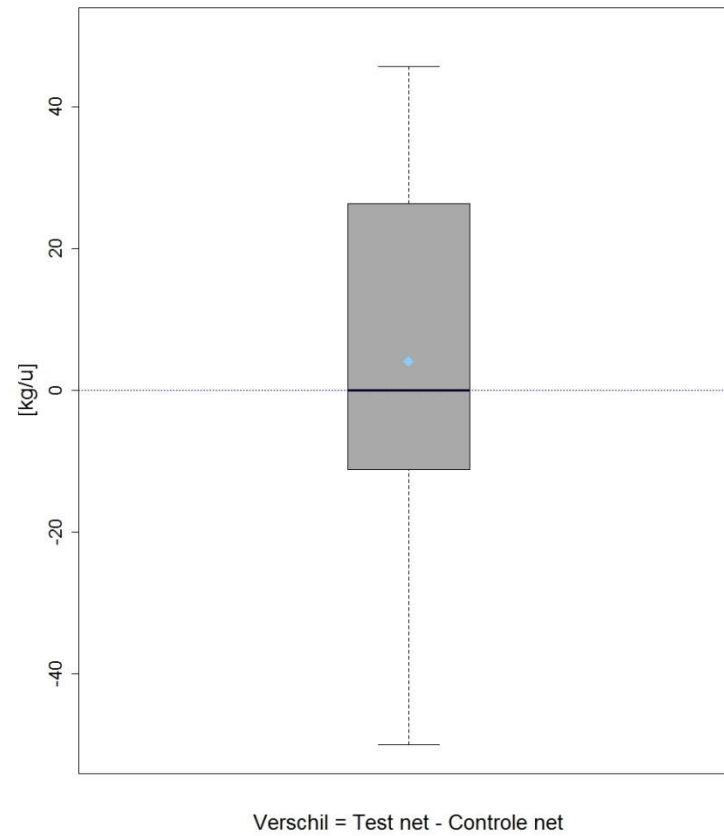
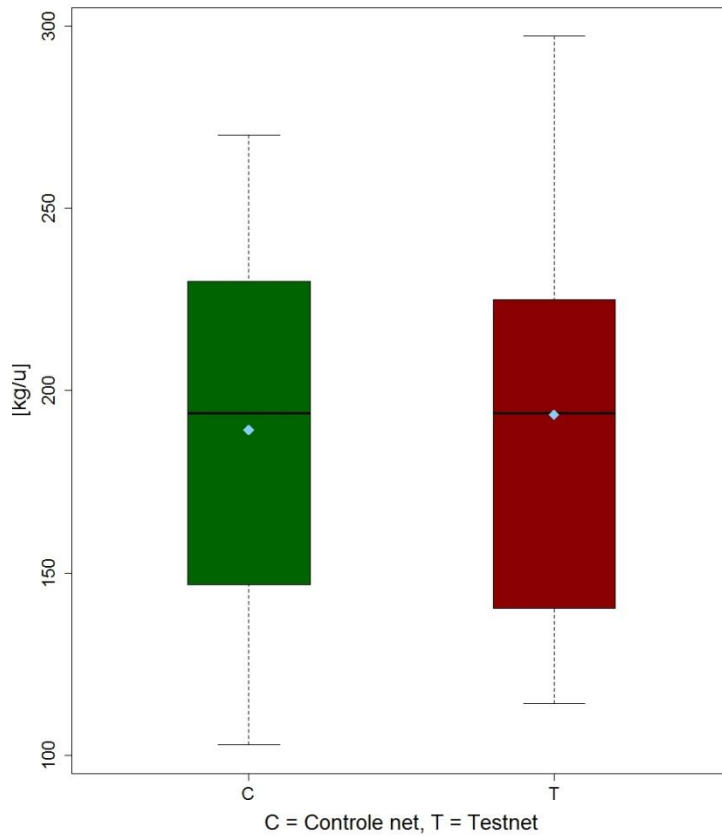
GY57 – Totaal vangst

Boxplots kg_hoops_u GY57 wk 16 2015



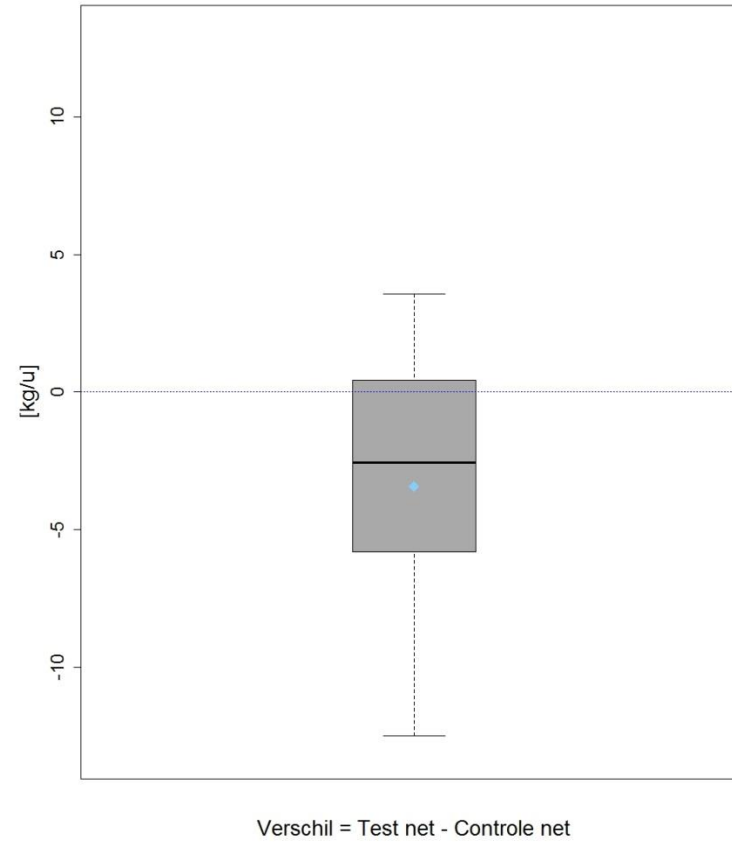
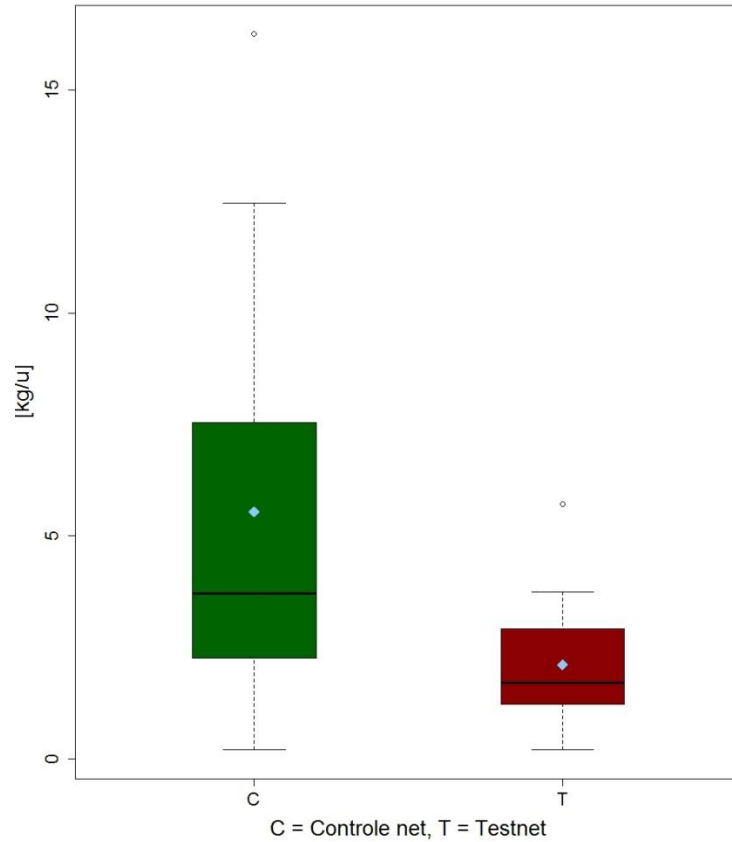
GY57 – Vangst maatse schol

Boxplots kg_ple_u GY57 wk 16 2015



GY57 - Tongschar

Boxplots kg_lem_g_u GY57 wk 16 2015

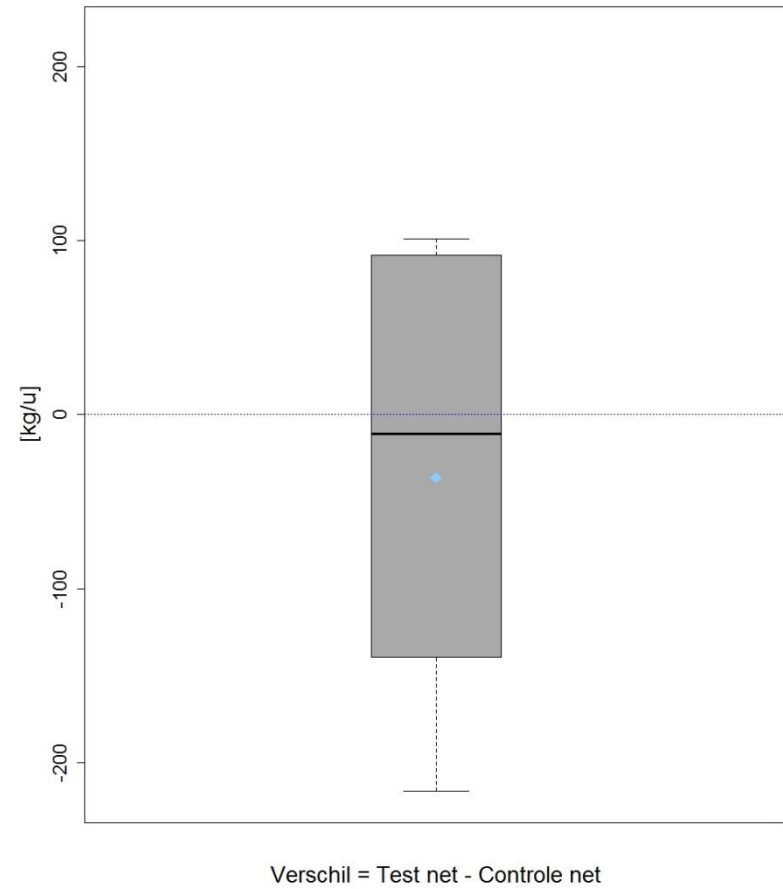
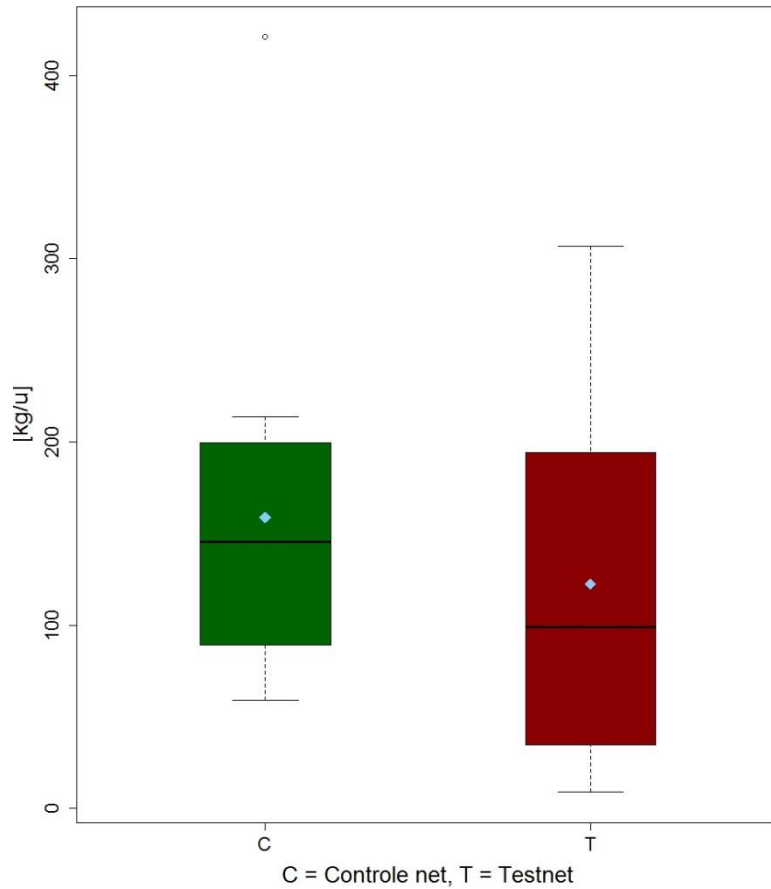


GY57

spec	C.mean	C.sd	T.mean	T.sd	TCratio	Ftst	N_Samples
kg_hoops_u	368.5	131.3	332.3	144.7	90.2	0.887	50
totland_u	199.8	57.7	199.8	62.7	100	0.927	5326
kg_ple_u	189.2	56.5	193.4	62.2	102.2	0.93	259
kg_disc_u	158.7	102.7	122.5	103.1	77.2	0.017	20
kg_lem_g_u	5.5	5.1	2.1	1.7	38.2	0.205	23

GY57 - Discards

Boxplots kg_disc_u GY57 wk 16 2015

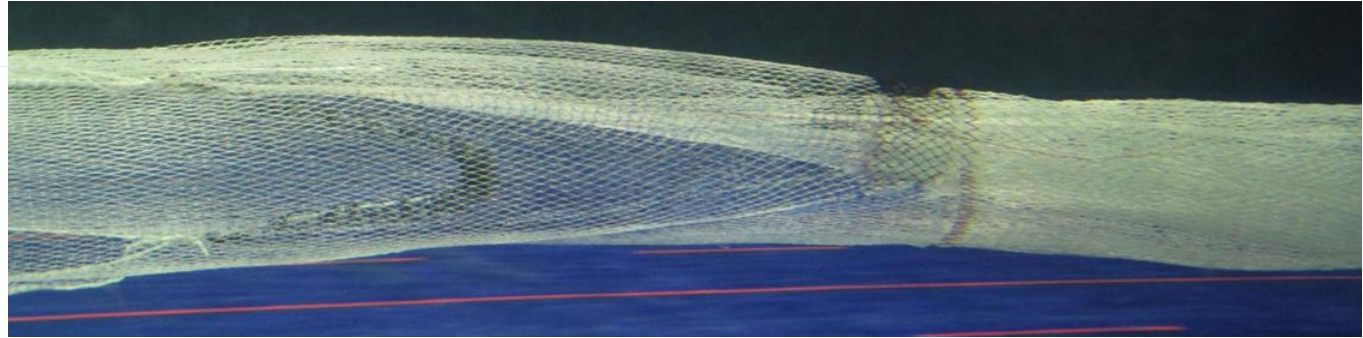


Voorlopige conclusies

- Discard vermindering 20 tot 35%
- Netinnovaties hebben bijna altijd een (klein) verlies van marktwaardige vis
- Scheidingspaneel - 10% maatse tong gaat boven het paneel langs

Hoe verder?

- WR244
- ARM 22
- TX36 - Elektrisch benthos paneel
- GY57
- Flyshoot



Vragen?

Ideeën!?

