



European
Commission

NWWAC / NSAC / MAC

BROWN CRAB WORKSHOP

16 May 2023 - Paris, France and online



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MAC **NSAC**
Market Advisory Council North Sea Advisory Council



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Brown crab:

*“Brown crab (Cancer pagurus) fisheries
in the context of EU-UK shared non-quota stocks”*



*NWWAC / NSAC / MAC
Workshop on Brown Crab
Virtual meeting: 16 May 2023*

Non-quota stocks (NQS)



JRC SCIENCE FOR POLICY REPORT

Scientific, Technical and Economic
Committee for Fisheries (STECF)

Assessment and advice for non-
quota stocks, to support the
development of multi-annual
strategies in the context EU-UK
(STECF-22-04)

Edited by Ralf Doering, Christoph Konrad & Zeynep Hekim

2023



EUR 28359 EN

- **NQS:** Main objectives of the report:

- Provide a general and comprehensive overview on NQS;
- Present data / information on the 20 most important NQS;
- Present data / information on the spatial distribution of fishing effort, landings weight and respective value;
- Prepare factsheets for 10 most important NQS;
- Evaluate the quality of data on NQS from different sources of information;
- Identify issues and lacking information to support stock assessment and fishery management of NQS.

Non-quota stocks (NQS)



- **NQS:** Landings weight (kg) in the area by MS (annual average 2017-2019)

Country	All spp.	Quota spp.	Hybrid spp.	Non-quota spp.
Belgium	21,973,367	12,112,004	3,535,192	6,326,171
Denmark	604,837,848	201,063,117	344,961,836	58,812,895
France	276,219,078	128,223,999	7,442,957	140,552,121
Germany	132,095,934	108,131,553	11,326,700	12,637,680
Ireland	162,472,465	131,854,432	13,258,797	17,359,236
Netherlands	293,379,961	227,501,503	12,820,976	53,057,482
Poland	15,525,276	15,311,347	-	213,929
Portugal	66,022	65,992	-	30
Spain	25,863,263	23,302,402	451,860	2,109,002
Sweden	53,041,101	21,556,831	31,431,174	53,097
TOTAL EU-27	1,585,474,316	869,123,179	425,229,493	291,121,644
United Kingdom	600,491,855	460,387,105	14,383,173	125,721,576
TOTAL	2,185,966,171	1,329,510,285	439,612,666	416,843,220

NQS = 291.1 thousand tonnes:

1 - France (140.6 K t.)

2 - Denmark (58.8 K t.)

3 - Netherlands (53.1 K t.)

4 - Ireland (17.4 K t.)

5 - Germany (12.6 K t.)

6 - Belgium (6.3 K t.)

Non-quota stocks (NQS)



- **NQS:** Landings value (€) in the area by MS (annual average 2017-2019)

Country	All spp.	Quota spp.	Hybrid spp.	Non-quota spp.
Belgium	80,428,397	30,881,402	32,898,469	16,648,526
Denmark	290,411,255	173,116,331	85,485,751	31,809,173
France	546,665,125	233,245,862	50,160,450	263,258,812
Germany	136,837,602	75,083,506	13,802,974	47,951,122
Ireland	210,875,232	144,440,580	10,248,202	56,186,451
Netherlands	379,327,147	147,087,871	114,877,007	117,362,269
Poland	-	-	-	-
Portugal	223,638	223,564	-	74
Spain	91,709,678	84,376,959	1,499,147	5,833,573
Sweden	20,599,949	13,200,463	7,267,859	131,627
TOTAL EU-27	1,757,078,024	901,656,538	316,239,859	539,181,627
United Kingdom	1,037,101,921	660,947,981	50,778,568	325,375,372
TOTAL	2,794,179,945	1,562,604,519	367,018,427	864,556,999

NQS = 539.2 Million euros:

1 - France (263.3 M €)

2 - Netherlands (117.4 M €)

3 - Ireland (56.2 M €)

4 - Germany (47.9 M €)

5 - Denmark (31.8 M €)

6 - Belgium (16.6 M €)

Non-quota stocks (NQS)



- **NQS:** Landings weight (kg) and value (€) and respective share in the EU

Country	Live weight of landings	Value of landings	Average price	Weight share on EU landings	Value share on EU landings
Belgium	6,326,171	16,648,526	3.66	2.2%	3.1%
Denmark	58,812,895	31,809,173	0.48	20.2%	5.9%
France	140,552,121	263,258,812	1.98	48.3%	48.8%
Germany	12,637,680	47,951,122	1.04	4.3%	8.9%
Ireland	17,359,236	56,186,451	1.30	6.0%	10.4%
Netherlands	53,057,482	117,362,269	1.29	18.2%	21.8%
Poland	213,929	-	-	0.1%	-
Portugal	30	74	3.39	0.0%	0.0%
Spain	2,109,002	5,833,573	3.55	0.7%	1.1%
Sweden	53,097	131,627	0.39	0.0%	0.0%
TOTAL EU-27	291,121,644	539,181,627	1.11	100%	100%
United Kingdom	125,721,576	325,375,372	1.73		
TOTAL	416,843,220	864,556,999	1.28		

NQS = EU landings share (%):

- France: 1st kg / 1st € (48.3 - 48.8%)
- Denmark: 2nd kg / 5th € (20.2 - 5.9%)
- Netherlands: 3rd kg / 2nd € (18.2 - 21.8%)
- Ireland: 4th kg / 3rd € (6.0 - 10.4%)
- Germany: 5th kg / 4th € (4.3 - 8.9%)
- Belgium 6th kg / 6th € (2.2 - 3.1%)

Non-quota stocks (NQS)



- **NQS:** Top-10 species in landings weight (kg) in the area (annual average 2017-2019)

Species	Live weight of landings	Value of landings	Average Price	Share in weight
MUS	39,211,381	6,960,730	0.18	13%
SCE	33,609,465	102,985,070	3.06	12%
CSH	33,105,364	131,732,695	3.98	11%
LQD	27,938,133	1,173,402	0.04	10%
WHE	19,769,422	41,110,807	2.08	7%
PIL	19,101,595	10,302,394	0.54	7%
CRE	10,045,041	25,837,537	2.57	3%
LAH	8,424,616	336,985	0.04	3%
COC	7,340,683	5,102,198	0.70	3%
EQE	6,042,067	9,064,204	1.50	2%
TOTAL	291,121,644	539,181,627	1.85	70%

- **NQS:** Main species:

- 1) Blue mussel (MUS);
- 2) King scallop (SCE);
- 3) Common shrimp (CSH);
- 4) Tangle (LQD);
- 5) Whelk (WHE);
- 6) Pilchard (PIL);
- 7) **Brown crab (CRE) = 10.045 thousand tonnes;**
- 8) Kelp (LAH);
- 9) Cockle (COC);
- 10) Razor shell (EQE)

Non-quota stocks (NQS)



- **NQS:** Top-10 species in landings value (€) in the area (annual average 2017-2019)

Species	Value of landings	Live weight of landings	Average Price	Share in value
CSH	131,732,695	33,105,364	3.98	24%
SCE	102,985,070	33,609,465	3.06	19%
WHE	41,110,807	19,769,422	2.08	8%
CRE	25,837,537	10,045,041	2.57	5%
SQZ	23,970,966	3,383,307	7.09	4%
CTC	23,354,783	5,927,963	3.94	4%
LBE	15,853,112	898,699	17.64	3%
JOD	14,536,473	1,532,509	9.49	3%
MUR	12,836,060	2,624,946	4.89	2%
SCR	10,730,929	5,857,211	1.83	2%
TOTAL	539,181,627	291,121,644	1.85	75%

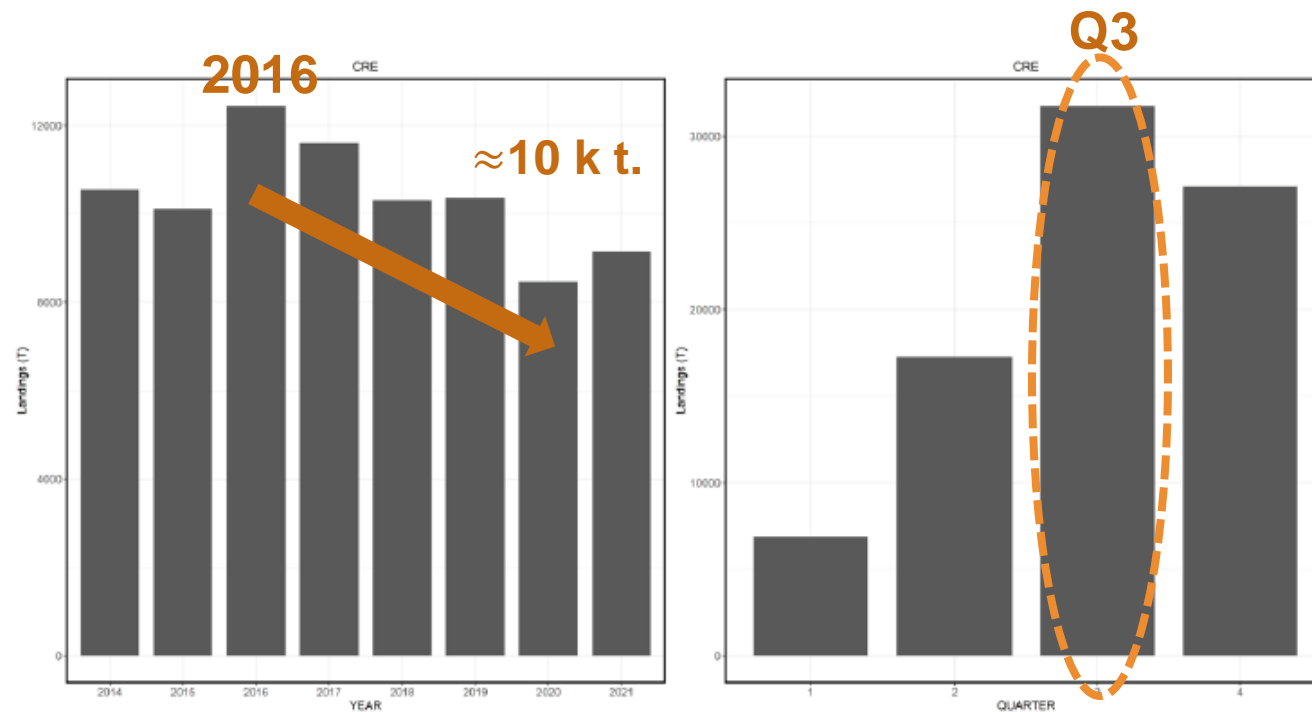
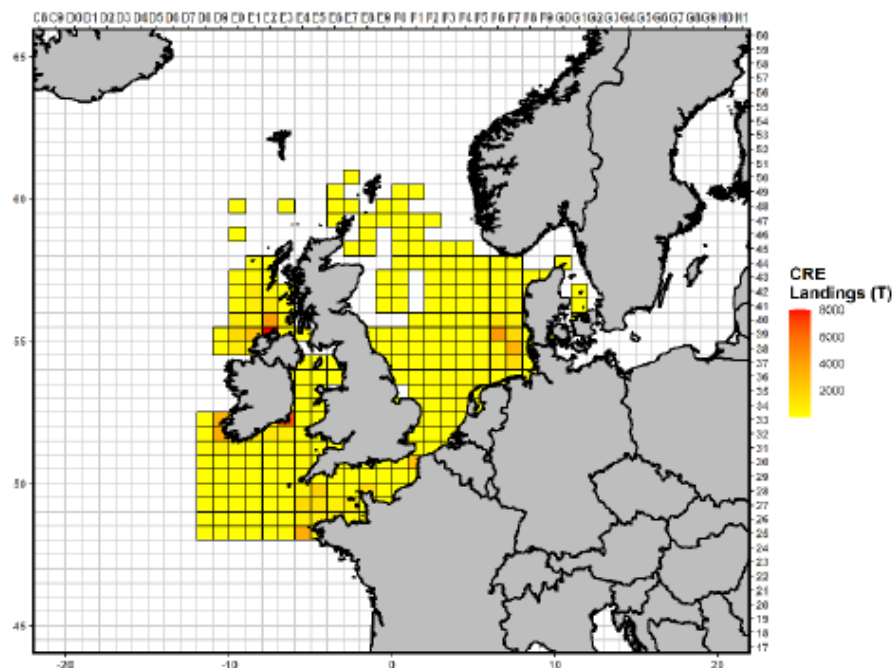
- **NQS:** Main species:

- 1) Common shrimp (CSH); 2) King scallop (SCE); 3) Whelk (WHE);
- 4) **Brown crab (CRE) = 25.8 million euros;**
- 5) Squids (SQZ); 6) Cuttlefish (CTC);
- 7) Lobster (LBE); 8) John dory (JOD);
- 9) Surmullet (MUR); 10) Spider crab (SCR)



Brown crab (*Cancer pagurus*)

- North Sea (ICES 4a,b,c), West of Scotland (6a), Irish Sea (7a), Celtic Sea (7f,g,h,j), Eastern Channel (7d) and Western Channel (7e)

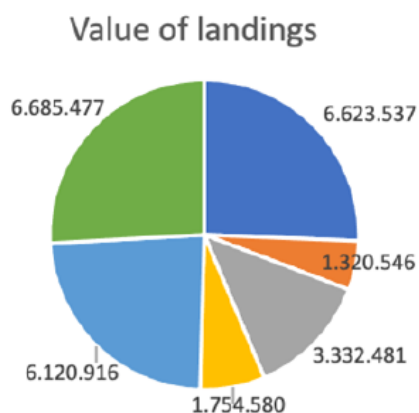
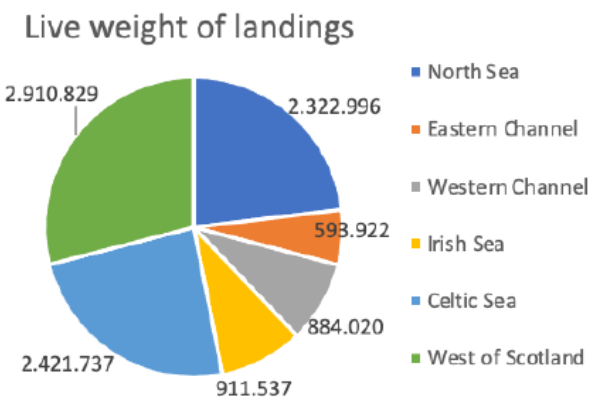


Spatial distribution and temporal variation (year and Q) in landings



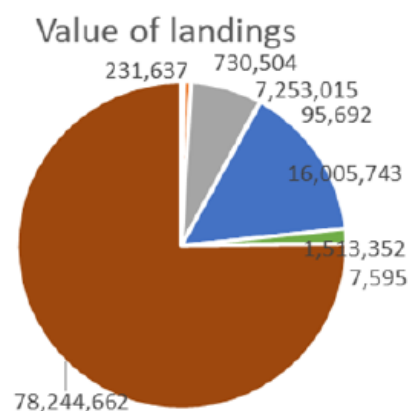
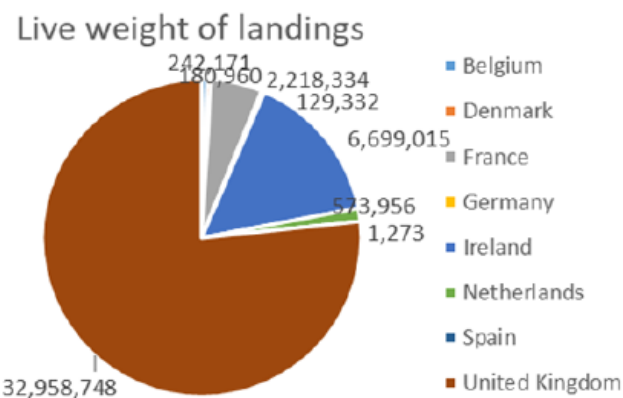
Brown crab (*Cancer pagurus*)

- Landings weight (kg) and value (€) in the area by sea basin and MS:



- **Sea basins:**

- 1) West of Scotland;
- 2) Celtic Sea;
- 3) North Sea);
- 4) Irish Sea;
- 5) Western channel;
- 6) Eastern channel.



- **Member States:**

- 1) Ireland;
- 2) France;
- 3) Netherlands;
- 4) Belgium;
- 5) Denmark;
- 6) Germany.



Brown crab (*Cancer pagurus*)

- Main fleets and fishing gears

Fleet	Live weight of landings	Landings value
IRL NAO FPO1218	10,434,196	27,111,613
IRL NAO FPO1012	5,190,774	12,582,519
FRA NAO FPO1824	2,613,365	9,449,765
FRA NAO DFN1218	1,278,430	4,346,964
IRL NAO FPO0010	2,232,606	4,306,367
NLD NAO TBB40XX	970,251	2,539,377
FRA NAO FPO0010	651,017	2,535,145
FRA NAO FPO1012	789,007	1,981,633
IRL NAO DFN0010	1,112,137	1,952,695
FRA NAO DFN1012	736,320	1,847,299
Other	4,127,019	8,859,235
Total	30,135,123	77,512,612

- **Main fleets:**

- Ireland (12-18; 10-12 and <10 m LOA);
- France (18-24; 12-18; 10-12 and < 10 m LOA.

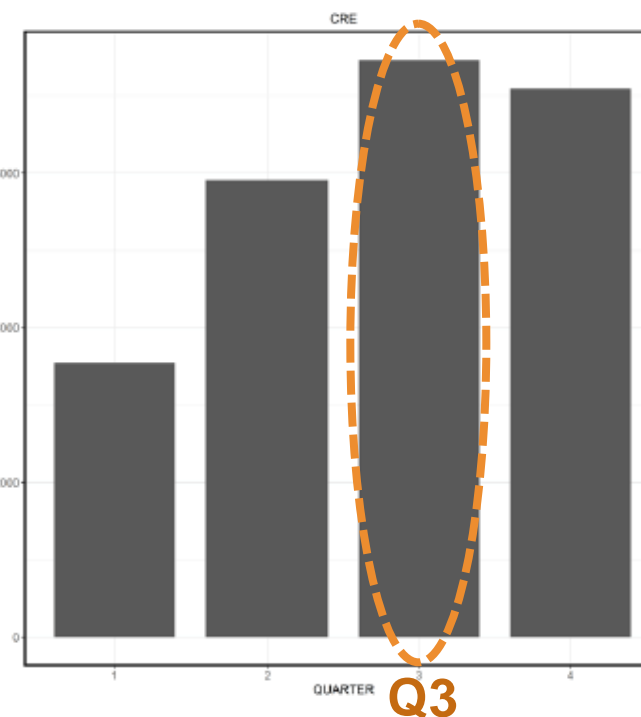
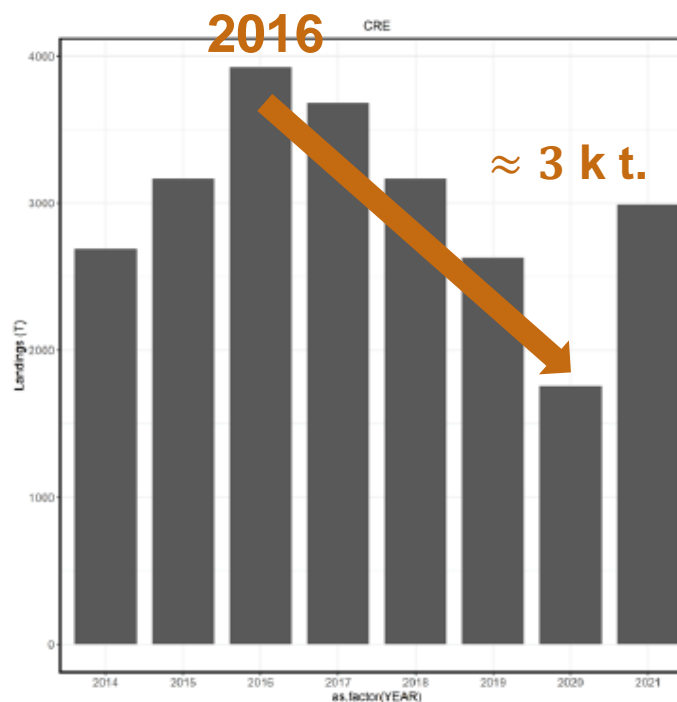
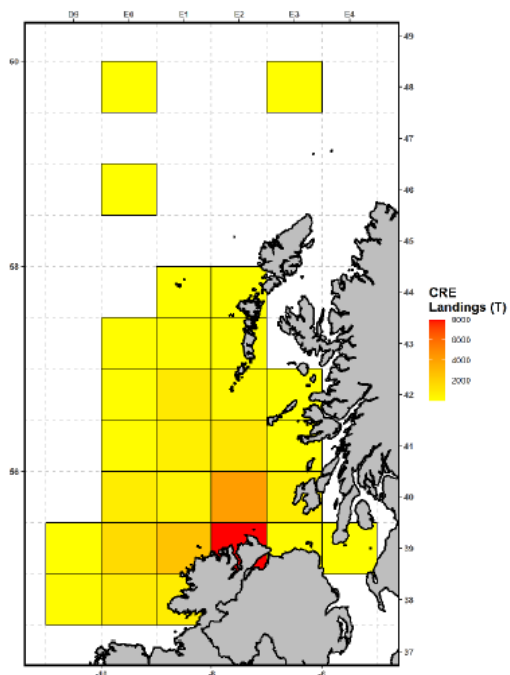
- **Main gears:**

- FPO = pots and **traps** (targeted fishery);
- DFN = drift nets and fixed nets (bycatch);
- TBB = beam trawl (bycatch).



Brown crab (*Cancer pagurus*)

- **West of Scotland:** Spatial distribution and temporal variation in landings

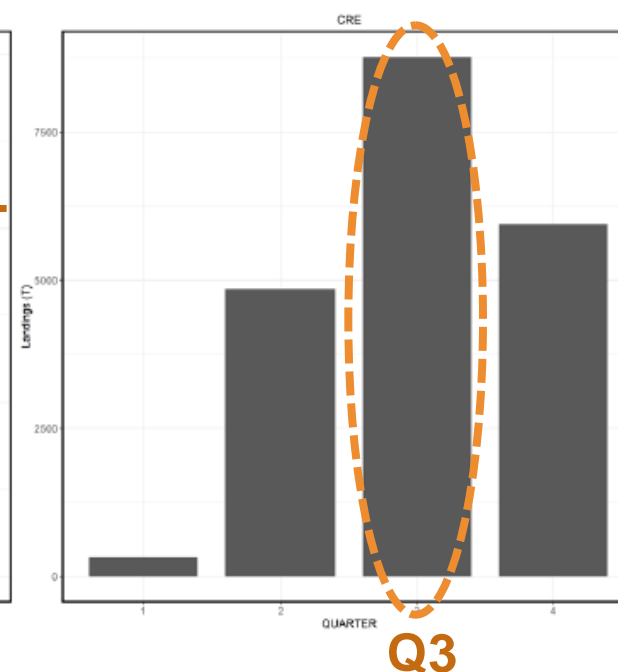
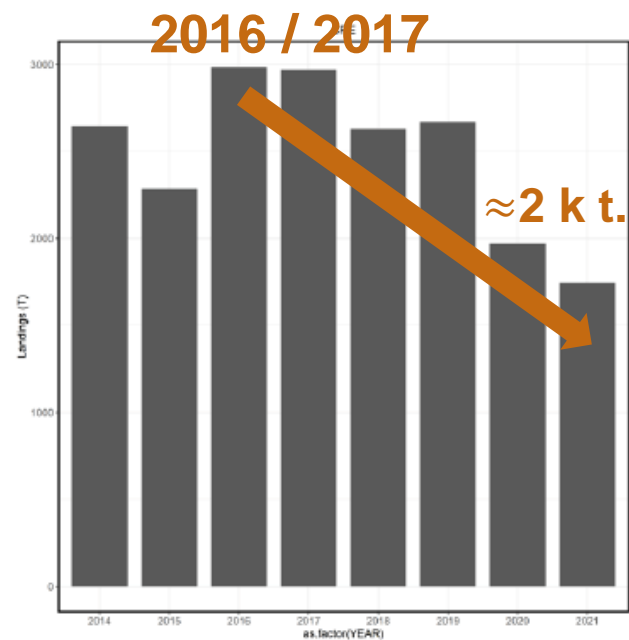
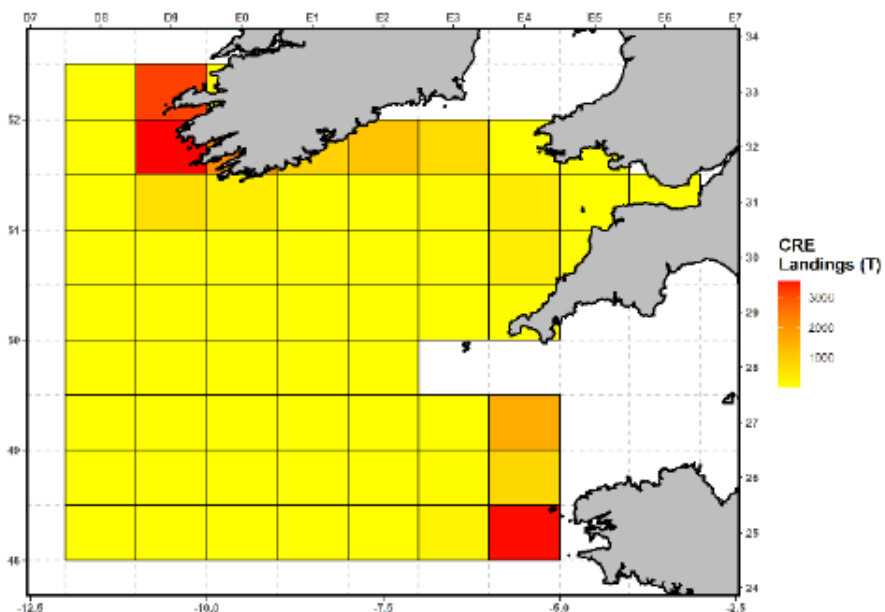


- **West of Scotland = 1st** in landings weight (kg) and value (€)



Brown crab (*Cancer pagurus*)

- **Celtic Sea: Spatial distribution and temporal variation in landings**

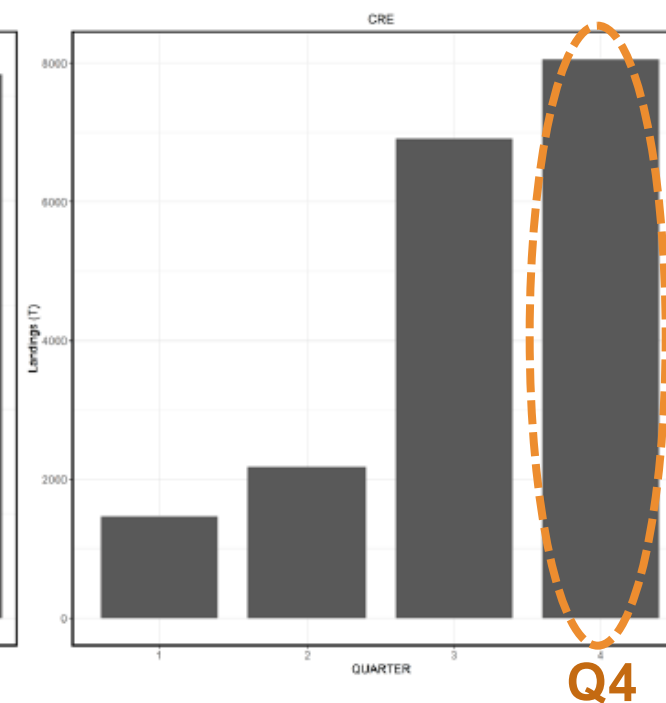
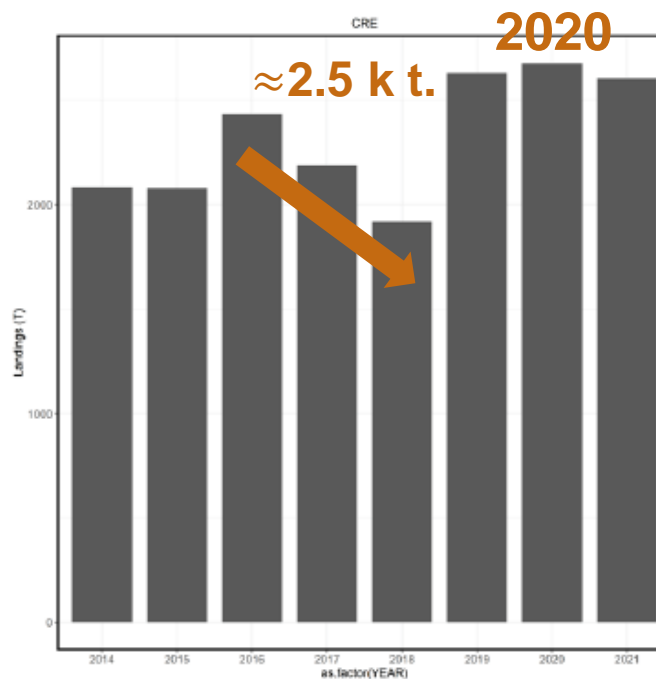
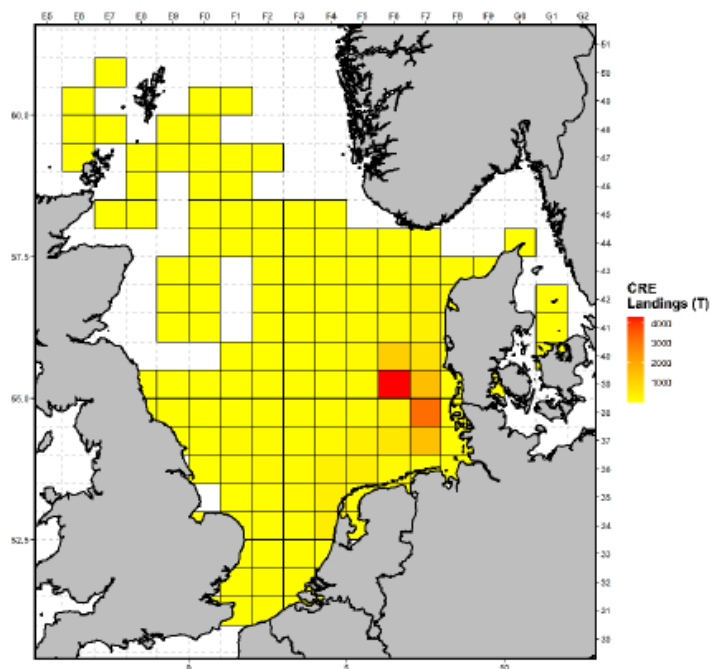


- **Celtic Seas = 2nd in landings weight (kg) and 3rd in landings value (€)**



Brown crab (*Cancer pagurus*)

- **North Sea:** Spatial distribution and temporal variation in landings

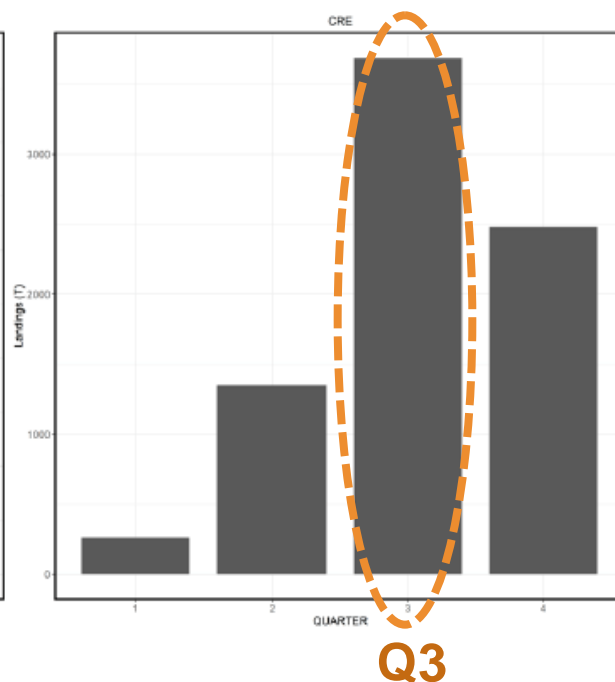
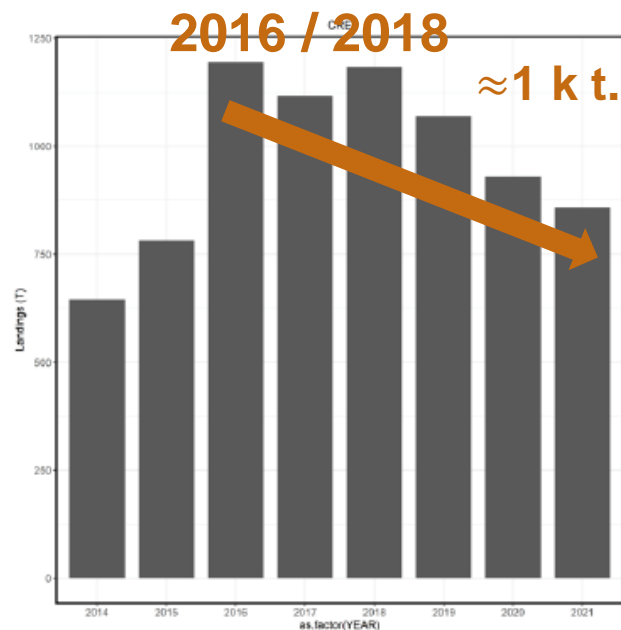
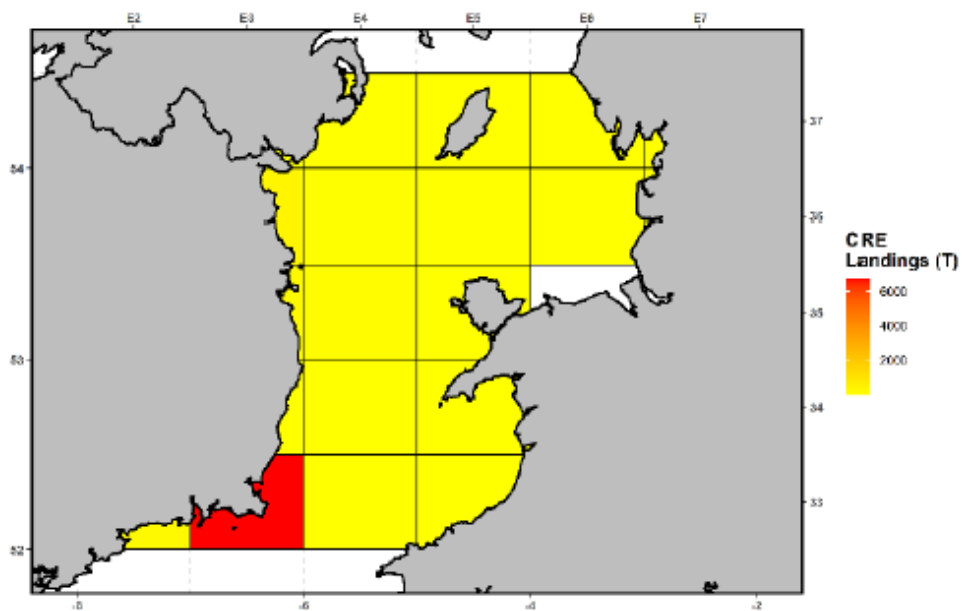


- **North Sea** = 3rd in landings weight (kg) and 2nd in landings value (€)



Brown crab (*Cancer pagurus*)

- **Irish Sea:** Spatial distribution and temporal variation in landings



- **Irish Sea** = 4th in landings weight (kg) and 5th in landings value (€)



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