

Appendix B:

Total Catch Data from ADFG for the Tanner Crab Assessment

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Introduction

This report calculates total catch abundance and biomass, as well as total catch size compositions, of Tanner crab in the crab fisheries from “at sea” observer sampling.

Total catch abundance and biomass

Time series of total catch abundance and biomass, based on ADFG “at sea” observer sampling in the crab fisheries, are calculated in this section.

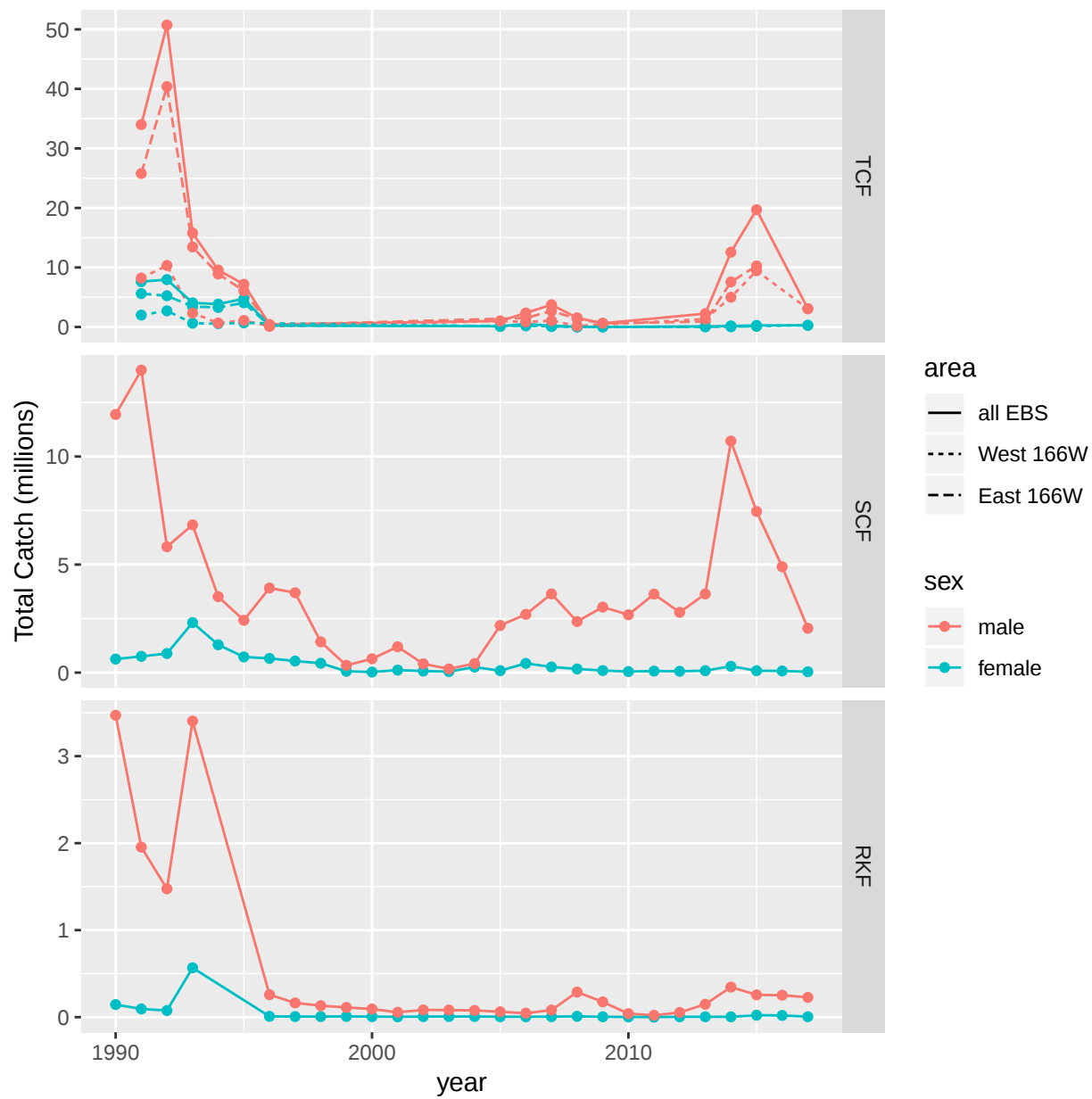


Figure 1: Total Tanner crab catch, in millions of crab. TCF: directed Tanner crab fisheries; SCF: snow crab fishery; RKF: BBRKC fishery.

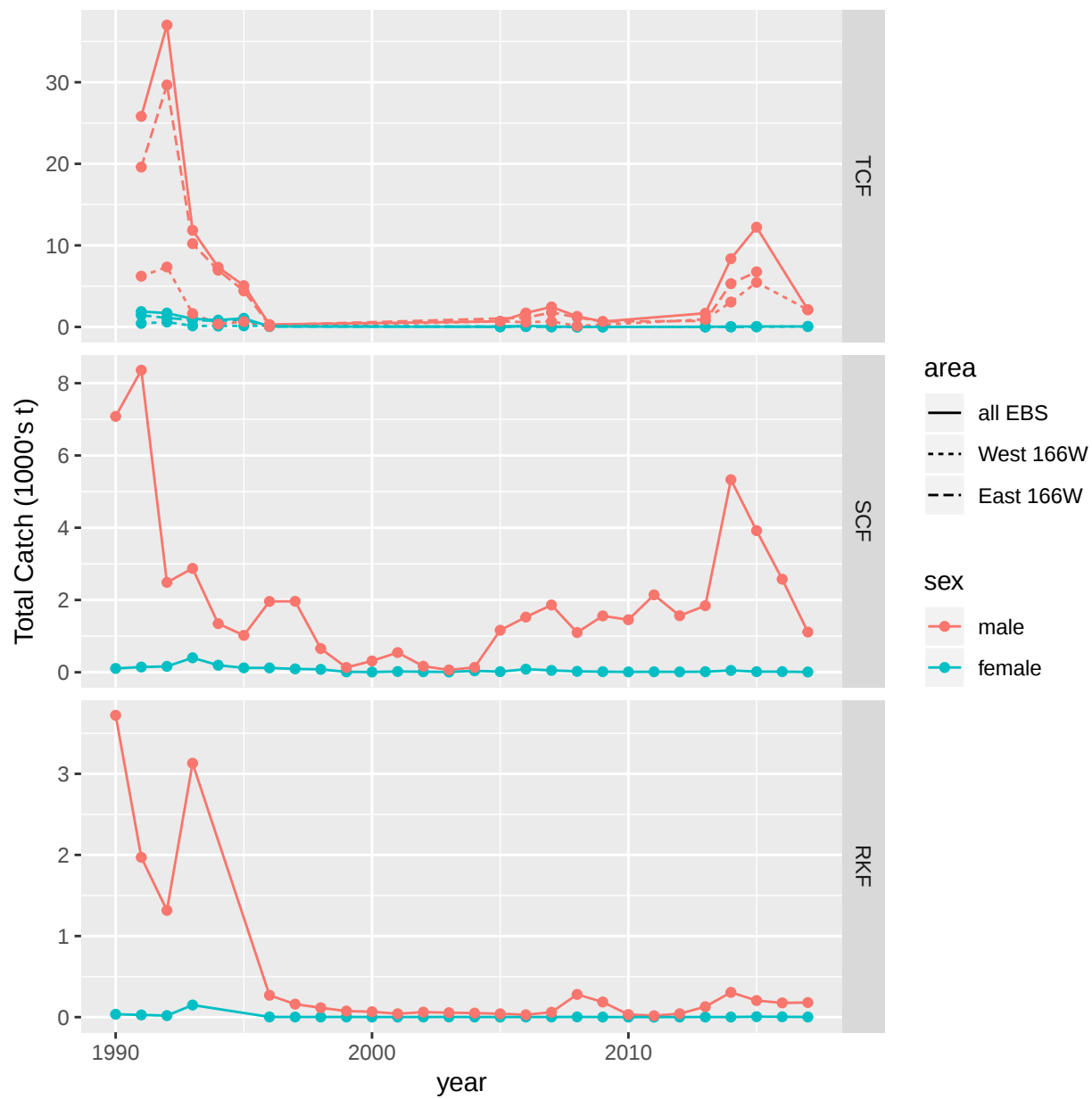


Figure 2: Total Tanner crab catch, in 1000's t. TCF: directed Tanner crab fisheries; SCF: snow crab fishery; RKF: BBRKC fishery.

Table 1: Total catch biomass of Tanner crab, by fishery. TCF: directed Tanner crab fisheries, SCF: snow crab fishery, RKF: BBRKC fishery.

year	RKF		SCF			TCF				
	female	male	female	male	all EBS	female	West 166W	all EBS	male	West 166W
	all EBS	all EBS	all EBS	all EBS		East 166W			East 166W	
	mt	mt	mt	mt	mt	mt	mt	mt	mt	mt
1990	35.64	3,722.41	105.73	7,081.22	0.00	0.00	0.00	0.00	0.00	0.00
1991	27.18	1,970.28	144.02	8,360.16	1,886.07	1,445.22	440.85	25,817.33	19,596.68	6,220.65
1992	19.04	1,316.69	162.54	2,487.22	1,703.58	1,104.00	599.58	37,007.42	29,660.41	7,347.01
1993	149.30	3,130.82	400.37	2,874.41	996.27	860.14	136.13	11,853.88	10,209.95	1,643.92
1994	0.00	0.00	194.21	1,345.11	841.65	729.27	112.37	7,315.42	6,958.13	357.29
1995	0.00	0.00	120.90	1,021.03	1,064.94	924.20	140.74	5,065.51	4,415.22	650.29
1996	2.42	269.98	119.63	1,960.72	56.68	56.68	0.00	300.43	228.61	71.82
1997	1.66	160.14	92.66	1,963.67	0.00	0.00	0.00	0.00	0.00	0.00
1998	1.66	115.22	80.36	655.94	0.00	0.00	0.00	0.00	0.00	0.00
1999	2.24	75.09	11.19	131.78	0.00	0.00	0.00	0.00	0.00	0.00
2000	1.36	66.40	6.06	312.83	0.00	0.00	0.00	0.00	0.00	0.00
2001	0.96	42.20	20.53	545.31	0.00	0.00	0.00	0.00	0.00	0.00
2002	1.58	61.25	13.81	167.18	0.00	0.00	0.00	0.00	0.00	0.00
2003	1.85	54.94	7.01	64.74	0.00	0.00	0.00	0.00	0.00	0.00
2004	1.65	49.76	39.90	134.62	0.00	0.00	0.00	0.00	0.00	0.00
2005	0.99	41.42	16.26	1,162.84	23.75	0.00	23.75	684.59	0.00	684.59
2006	1.48	29.52	85.52	1,527.25	121.12	48.83	72.29	1,711.37	1,132.14	579.23
2007	1.42	60.56	52.06	1,861.59	44.11	29.30	14.81	2,458.98	1,779.10	679.88
2008	2.54	279.90	24.93	1,100.27	8.15	6.66	1.50	1,296.93	1,177.78	119.14
2009	1.14	186.51	15.67	1,559.56	2.27	2.27	0.00	664.59	664.59	0.00
2010	0.55	31.92	9.18	1,453.26	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.07	17.47	13.27	2,141.35	0.00	0.00	0.00	0.00	0.00	0.00
2012	1.31	42.11	10.30	1,564.34	0.00	0.00	0.00	0.00	0.00	0.00
2013	1.26	128.94	15.63	1,841.75	23.47	12.11	11.36	1,679.31	746.21	933.10
2014	1.00	305.41	50.67	5,330.04	39.23	8.77	30.47	8,363.59	5,306.59	3,057.01
2015	5.58	204.96	16.82	3,919.18	57.61	28.22	29.39	12,228.99	6,761.44	5,467.55
2016	4.22	175.69	16.70	2,575.70	0.00	0.00	0.00	0.00	0.00	0.00
2017	1.41	180.09	7.04	1,113.36	59.68	0.00	59.68	2,112.81	0.00	2,112.81

Table 2: Total catch abundance of Tanner crab, by fishery. TCF: directed Tanner crab fisheries, SCF: snow crab fishery, RKF: BBRKC fishery.

year	RKF		SCF		all EBS abundance	TCF				
	female all EBS abundance	male all EBS abundance	female all EBS abundance	male all EBS abundance		female East 166W abundance	West 166W abundance	all EBS abundance	male East 166W abundance	West 166W abundance
1990	144,519	3,470,323	628,540	11,946,455	0	0	0	0	0	0
1991	94,536	1,954,295	752,183	13,995,237	7,613,128	5,611,845	2,001,283	34,001,956	25,791,525	8,210,431
1992	76,307	1,474,805	883,319	5,822,832	7,963,454	5,244,846	2,718,608	50,720,836	40,384,938	10,335,898
1993	567,133	3,403,707	2,314,901	6,841,229	4,063,605	3,429,524	634,081	15,784,117	13,437,551	2,346,566
1994	0	0	1,288,914	3,513,409	3,843,603	3,276,083	567,520	9,574,296	8,907,460	666,836
1995	0	0	727,241	2,422,642	4,741,446	4,057,738	683,708	7,177,419	6,083,963	1,093,456
1996	9,176	258,772	659,274	3,916,480	237,860	237,860	0	429,188	327,545	101,643
1997	6,484	163,621	536,997	3,696,981	0	0	0	0	0	0
1998	6,572	131,814	435,096	1,424,578	0	0	0	0	0	0
1999	8,495	111,285	62,286	336,764	0	0	0	0	0	0
2000	5,566	93,543	27,541	641,659	0	0	0	0	0	0
2001	3,930	56,106	118,268	1,196,100	0	0	0	0	0	0
2002	6,551	83,234	71,990	407,593	0	0	0	0	0	0
2003	7,360	81,335	46,737	172,053	0	0	0	0	0	0
2004	7,285	77,404	256,238	419,793	0	0	0	0	0	0
2005	4,640	61,828	90,020	2,182,048	112,562	0	112,562	1,003,858	0	1,003,858
2006	4,295	45,446	429,048	2,696,848	532,434	187,476	344,958	2,351,931	1,503,408	848,523
2007	5,406	81,214	263,568	3,641,695	193,293	121,601	71,692	3,741,140	2,681,282	1,059,858
2008	9,158	288,275	169,656	2,363,835	35,497	28,094	7,403	1,545,746	1,377,918	167,828
2009	4,254	175,411	97,010	3,034,582	8,471	8,471	0	622,584	622,584	0
2010	1,949	40,511	49,219	2,676,927	0	0	0	0	0	0
2011	260	21,026	72,766	3,633,089	0	0	0	0	0	0
2012	4,191	54,052	63,171	2,790,123	0	0	0	0	0	0
2013	4,334	148,057	90,977	3,640,531	94,077	42,504	51,573	2,241,471	898,607	1,342,864
2014	3,663	345,462	295,965	10,716,381	170,337	36,662	133,675	12,568,858	7,570,310	4,998,548
2015	21,917	256,287	87,919	7,455,464	267,821	119,577	148,244	19,705,314	10,264,176	9,441,138
2016	19,731	252,335	78,433	4,899,984	0	0	0	0	0	0
2017	5,167	227,212	39,956	2,052,032	281,056	0	281,056	3,069,551	0	3,069,551

Size compositions

This section calculates size compositions from ADFG at-sea observer sampling for total Tanner crab in the crab fisheries.

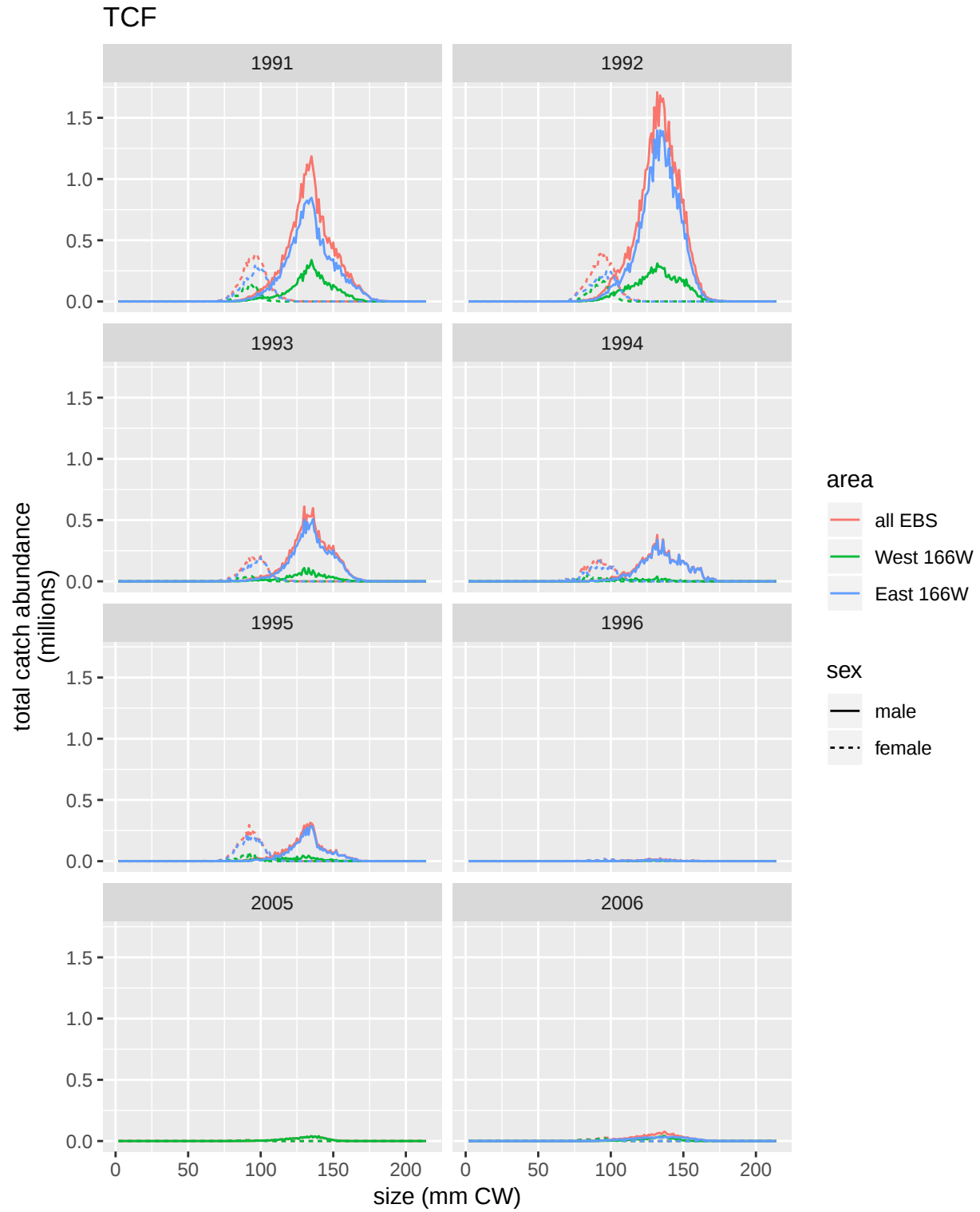


Figure 3: Total catch size compositions for TCF at 1-mm bin size.

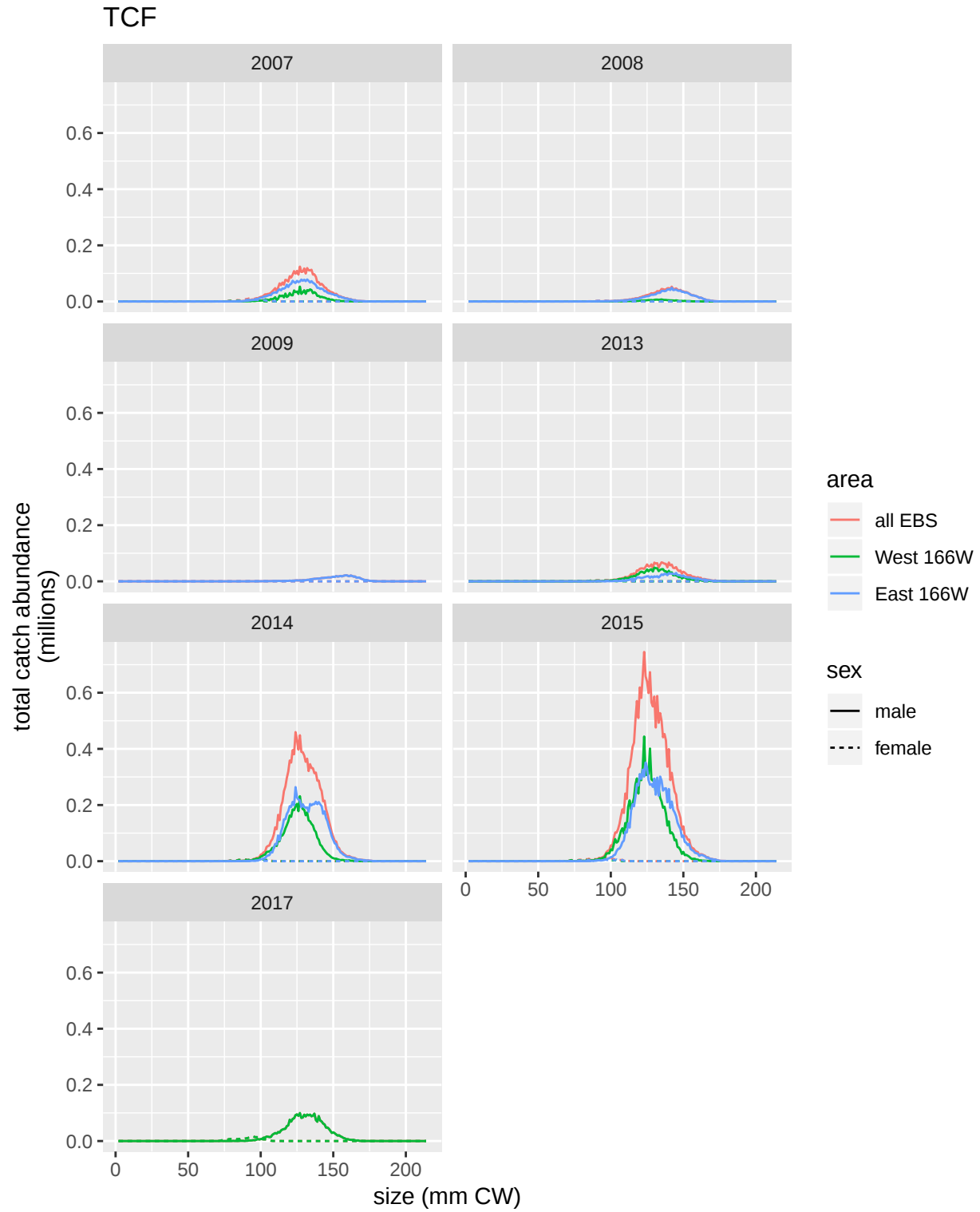


Figure 4: Total catch size compositions for TCF at 1-mm bin size.

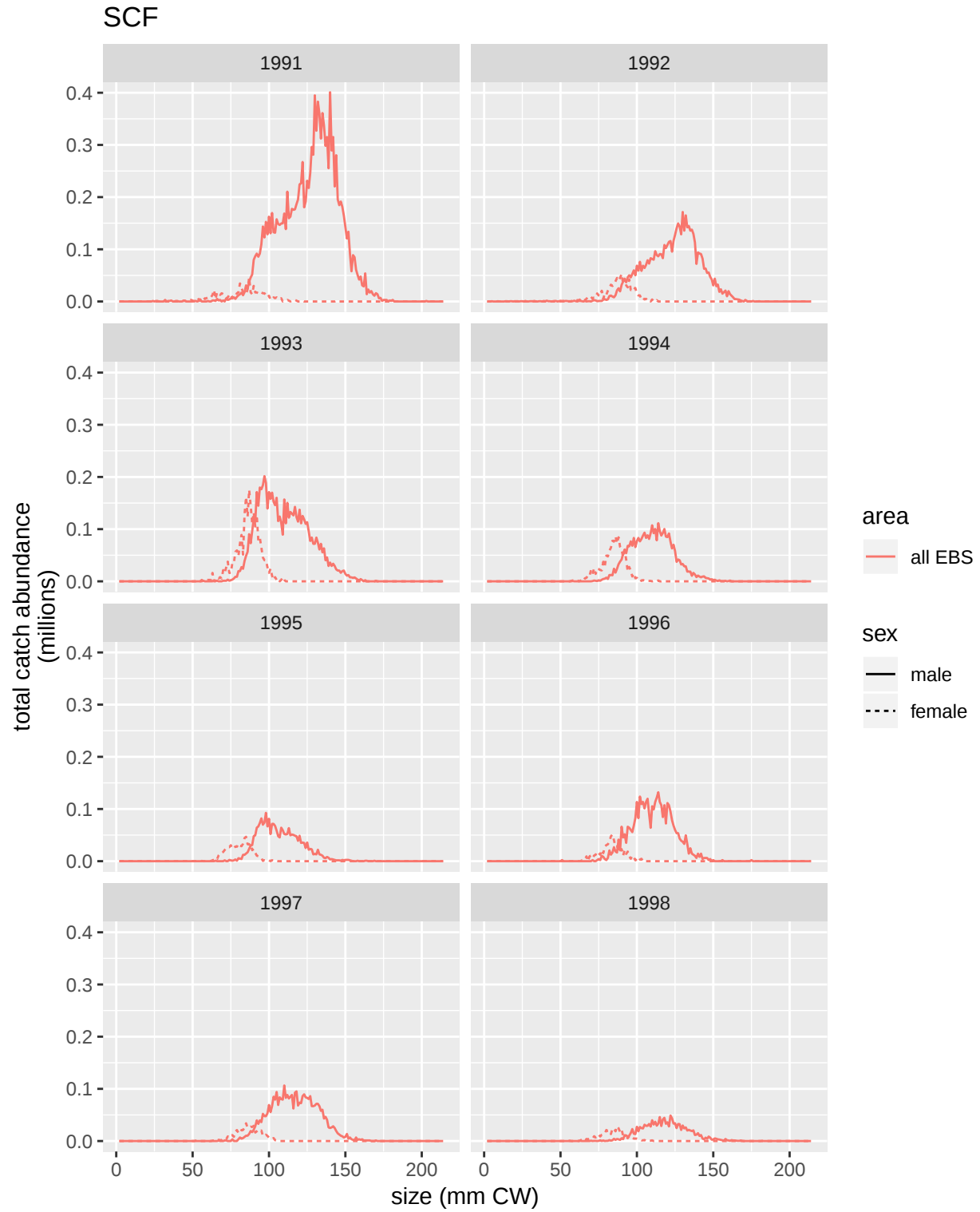


Figure 5: Total catch size compositions for SCF at 1-mm bin size.

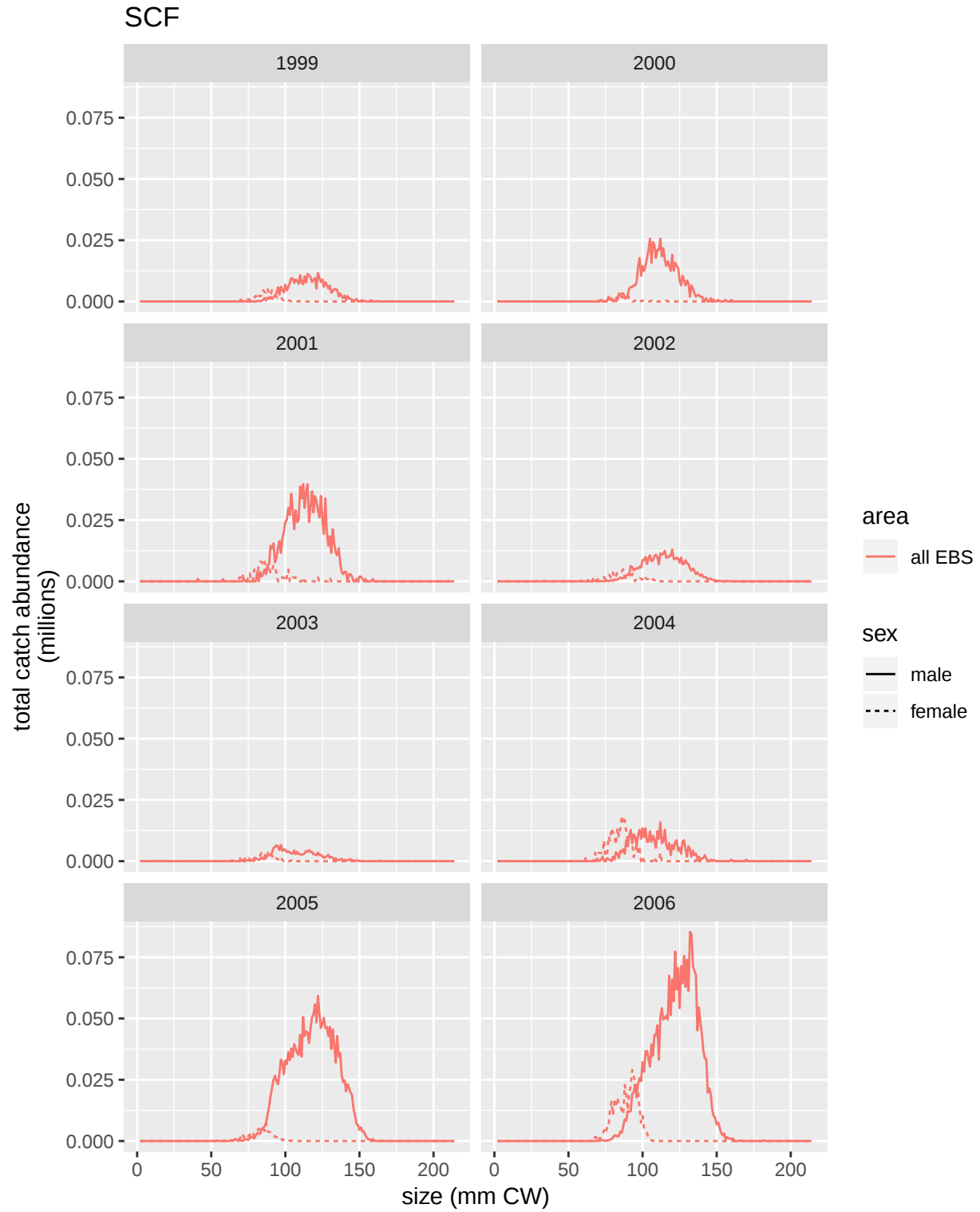


Figure 6: Total catch size compositions for SCF at 1-mm bin size.

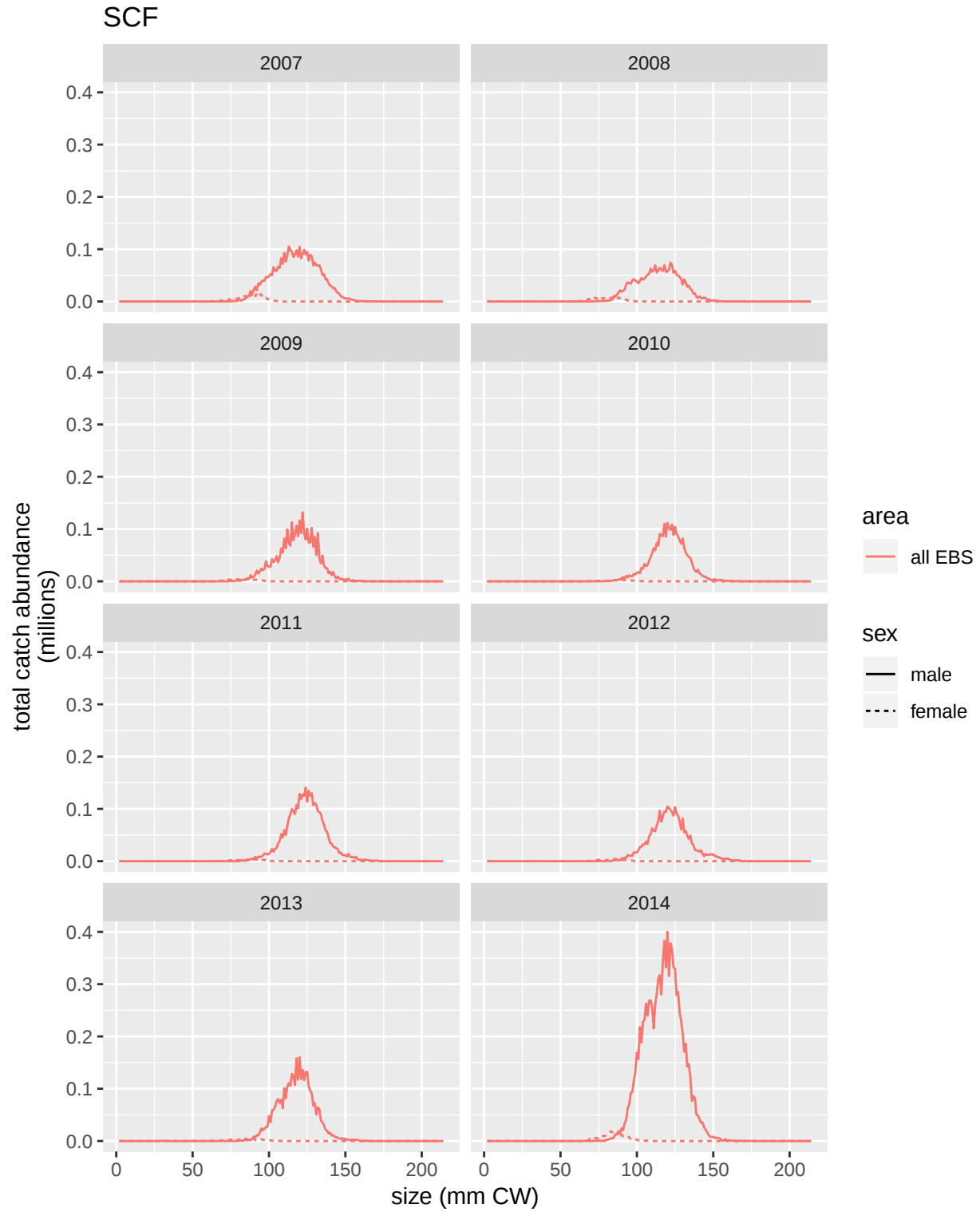


Figure 7: Total catch size compositions for SCF at 1-mm bin size.

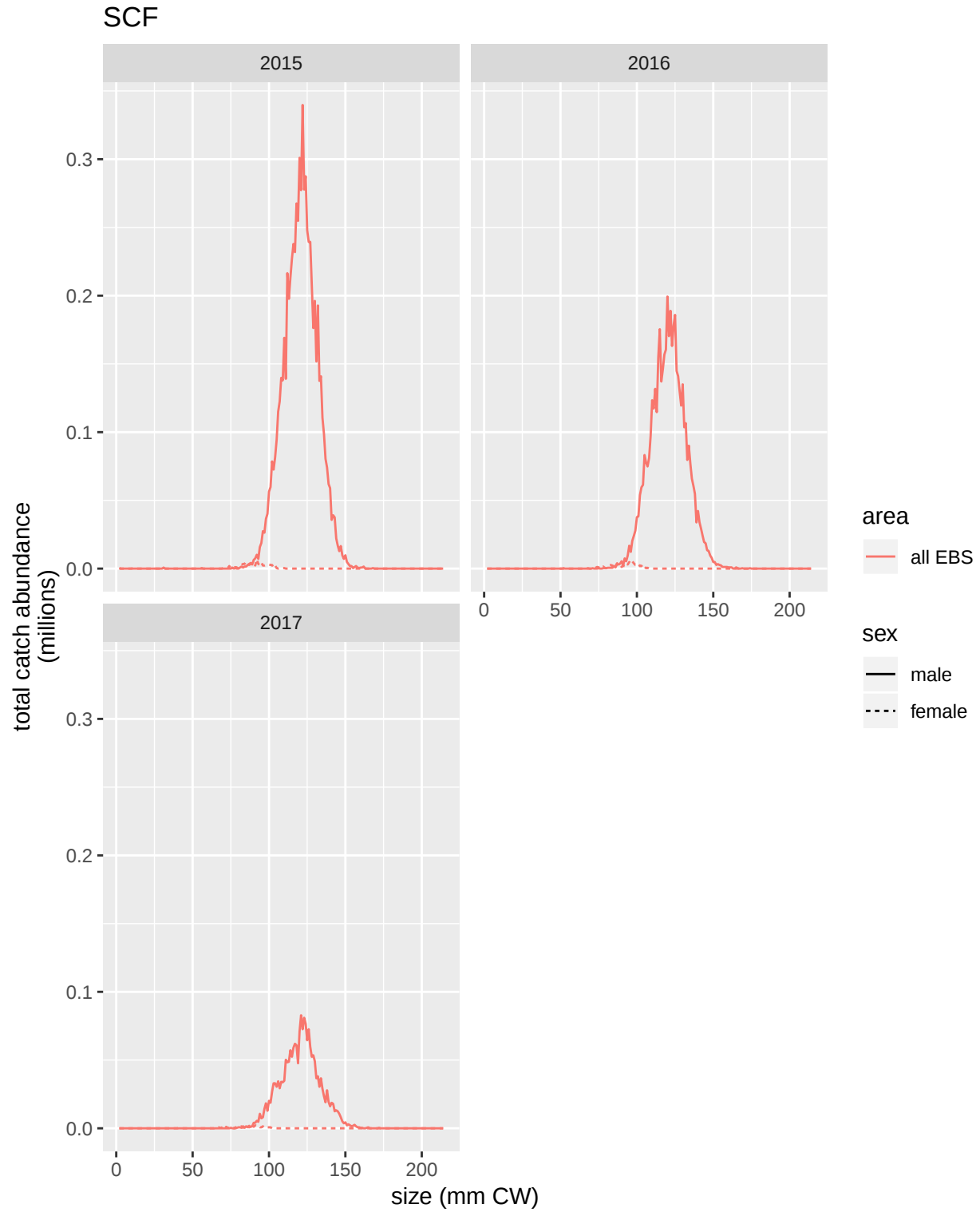


Figure 8: Total catch size compositions for SCF at 1-mm bin size.

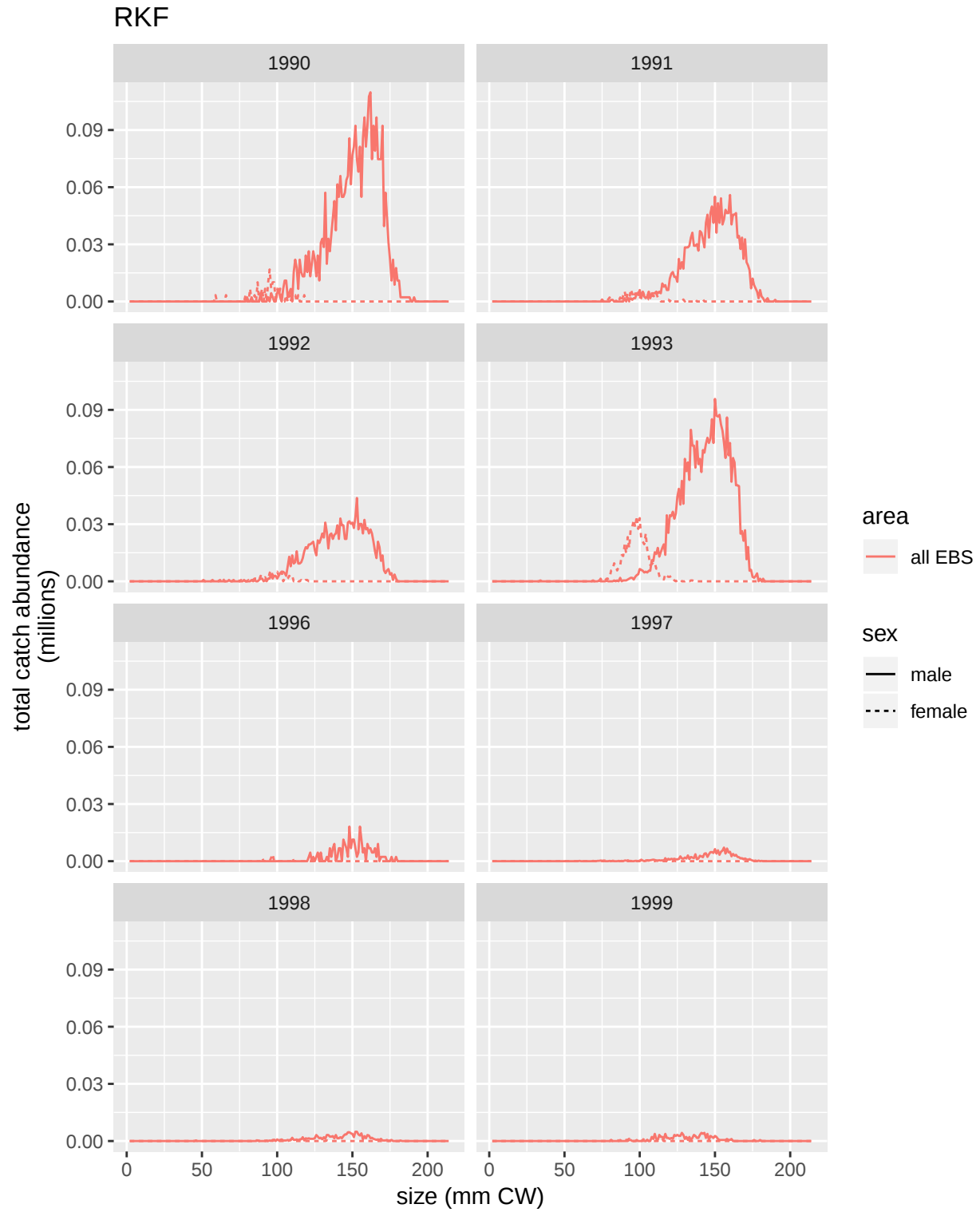


Figure 9: Total catch size compositions for RKF at 1-mm bin size.

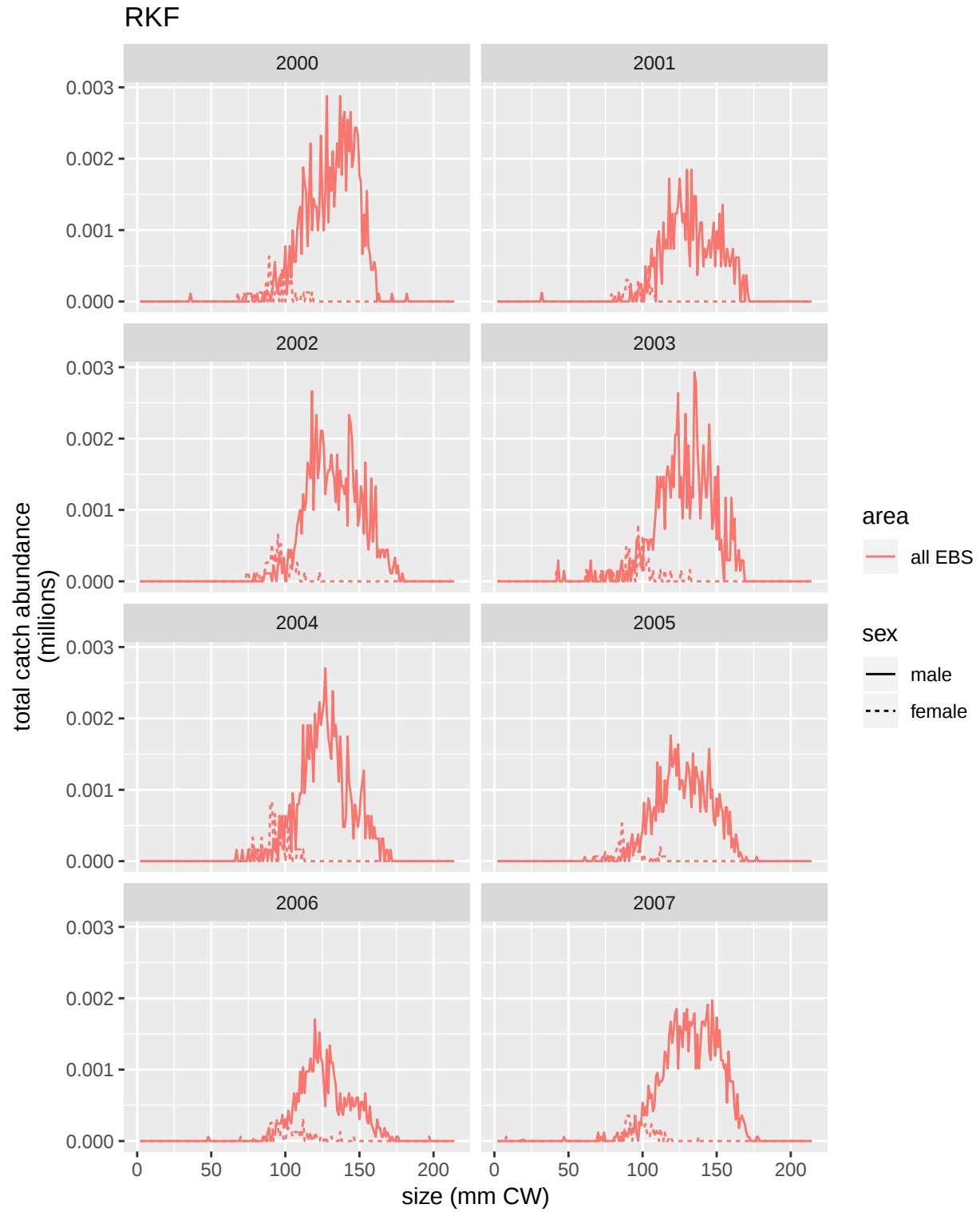


Figure 10: Total catch size compositions for RKF at 1-mm bin size.

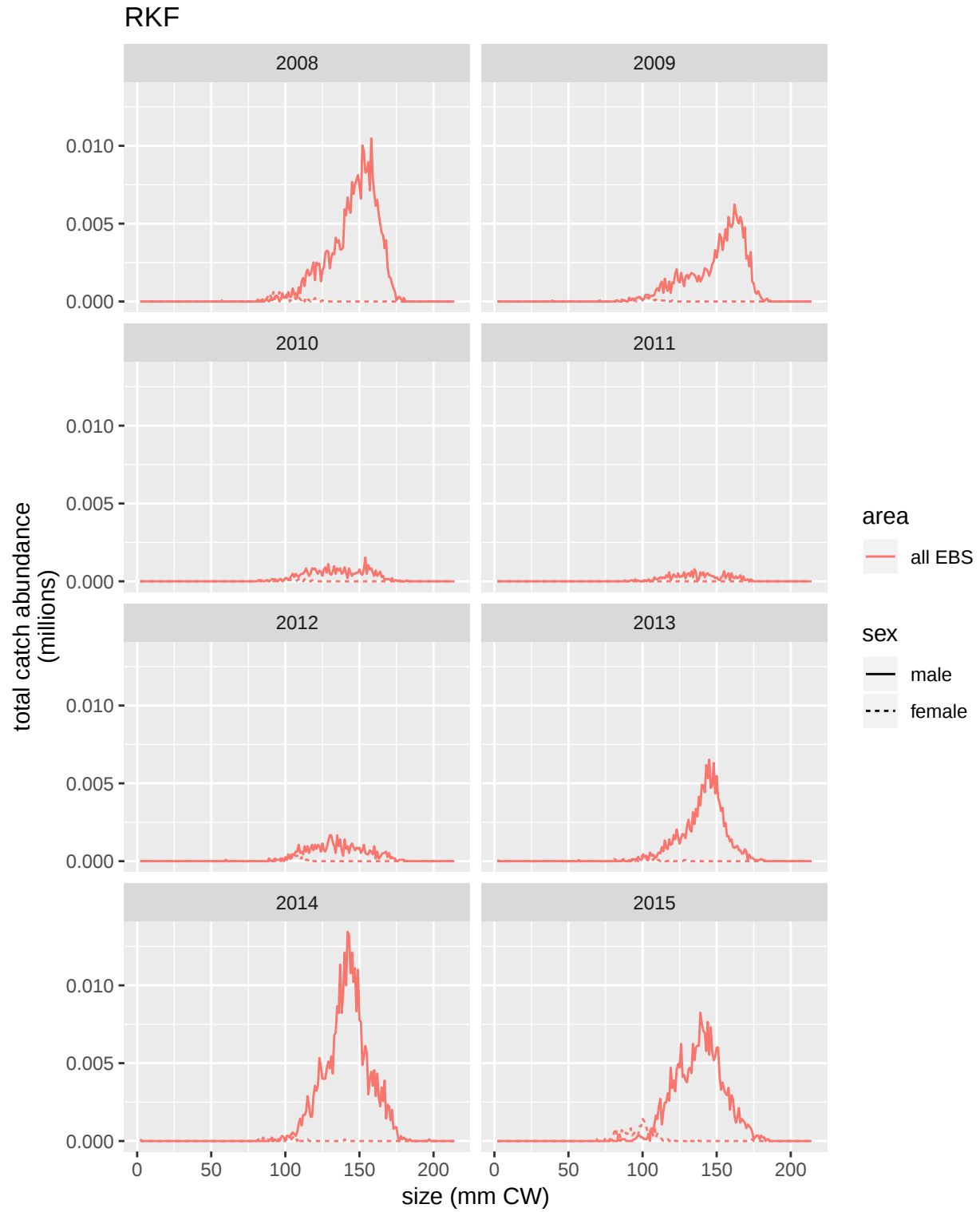


Figure 11: Total catch size compositions for RKF at 1-mm bin size.

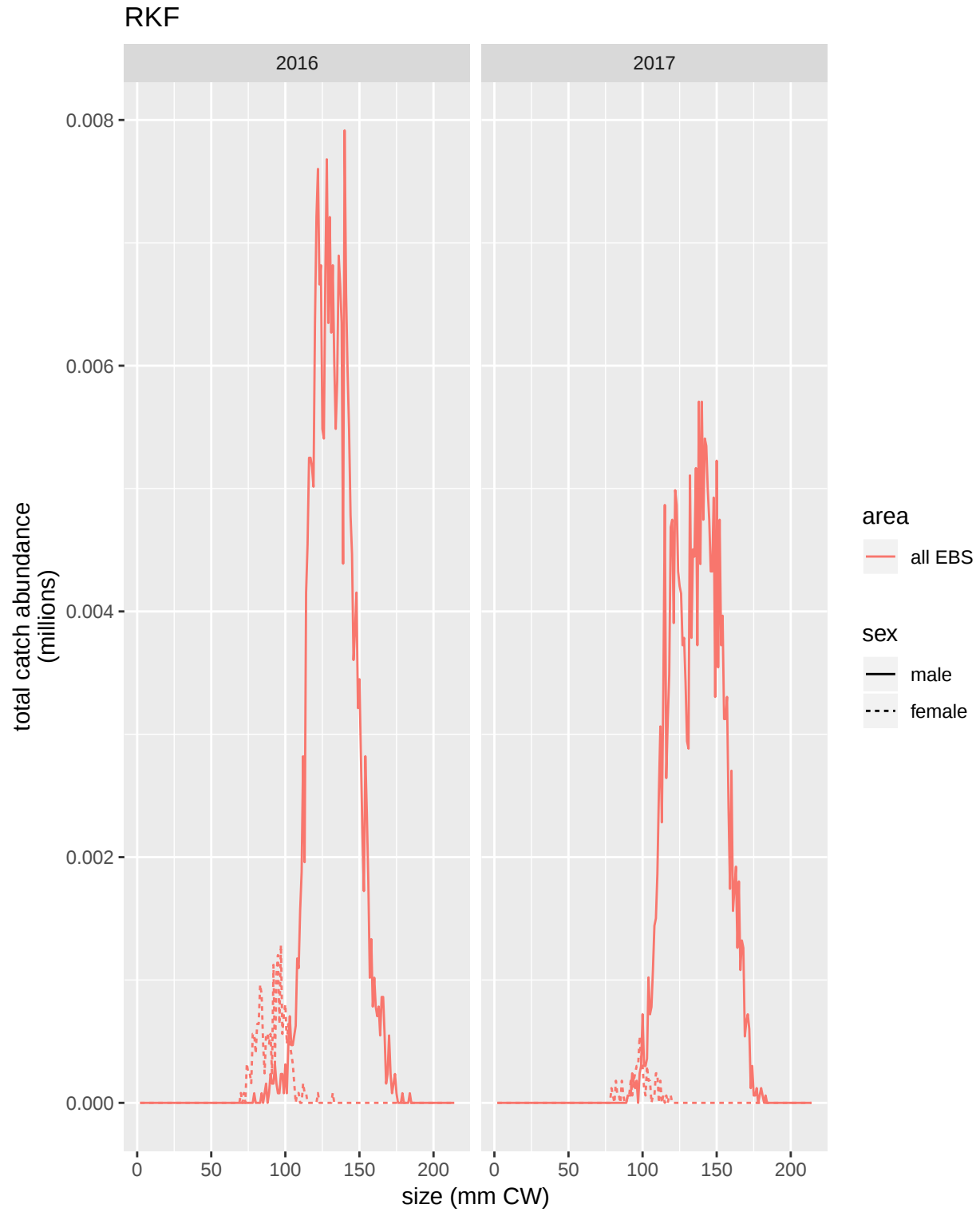


Figure 12: Total catch size compositions for RKF at 1-mm bin size.

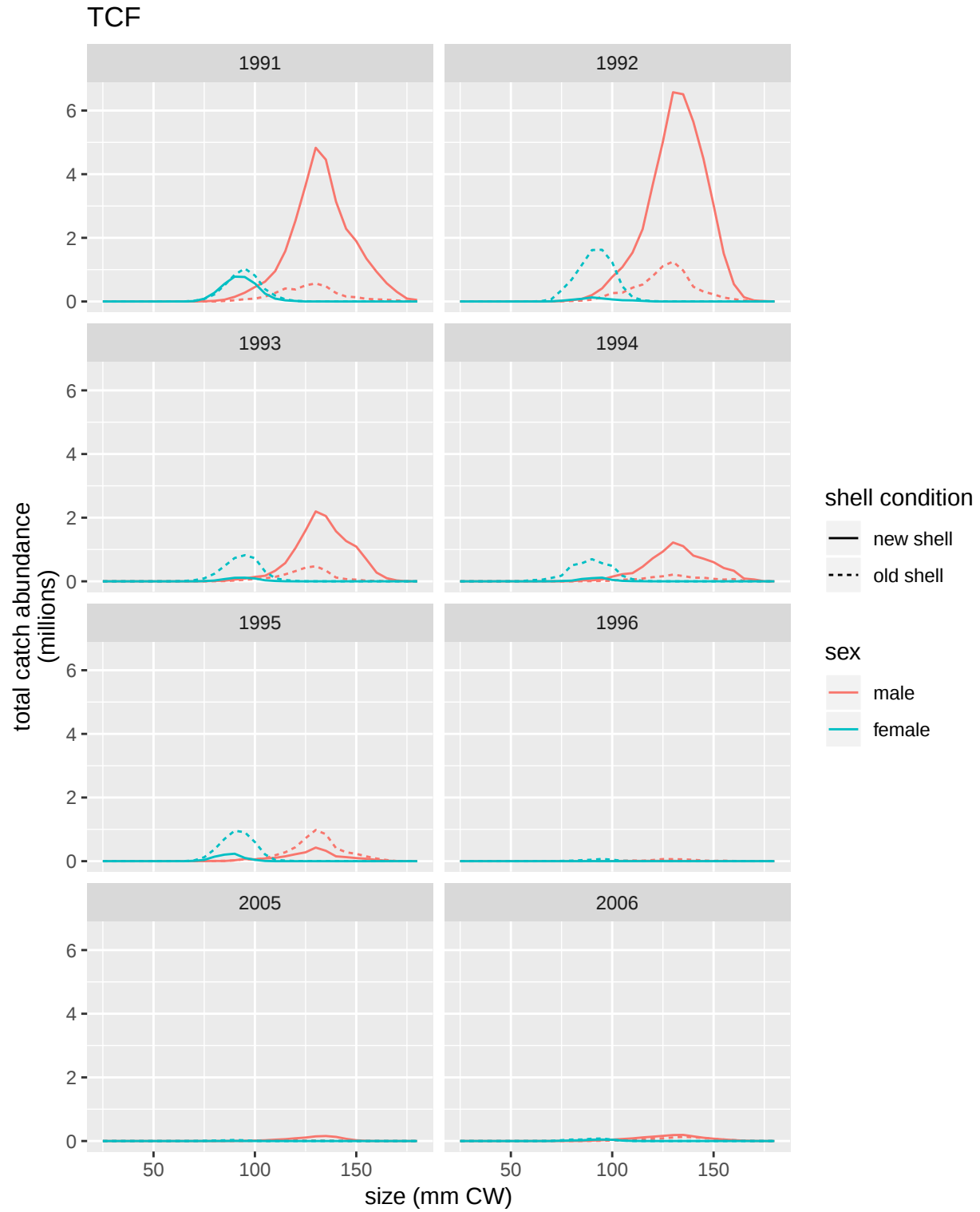


Figure 13: Total catch size compositions for TCF at 5-mm bin size.

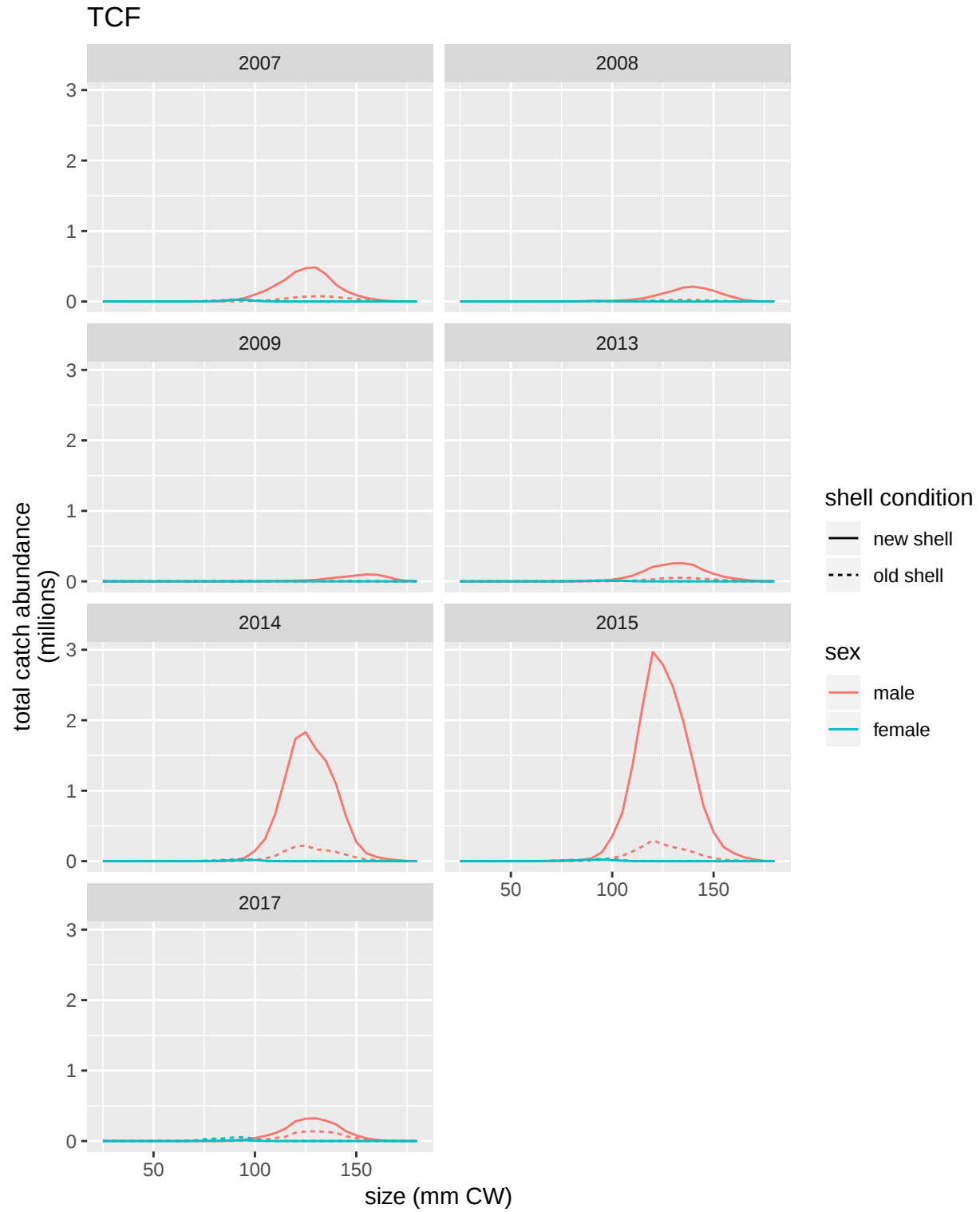


Figure 14: Total catch size compositions for TCF at 5-mm bin size.

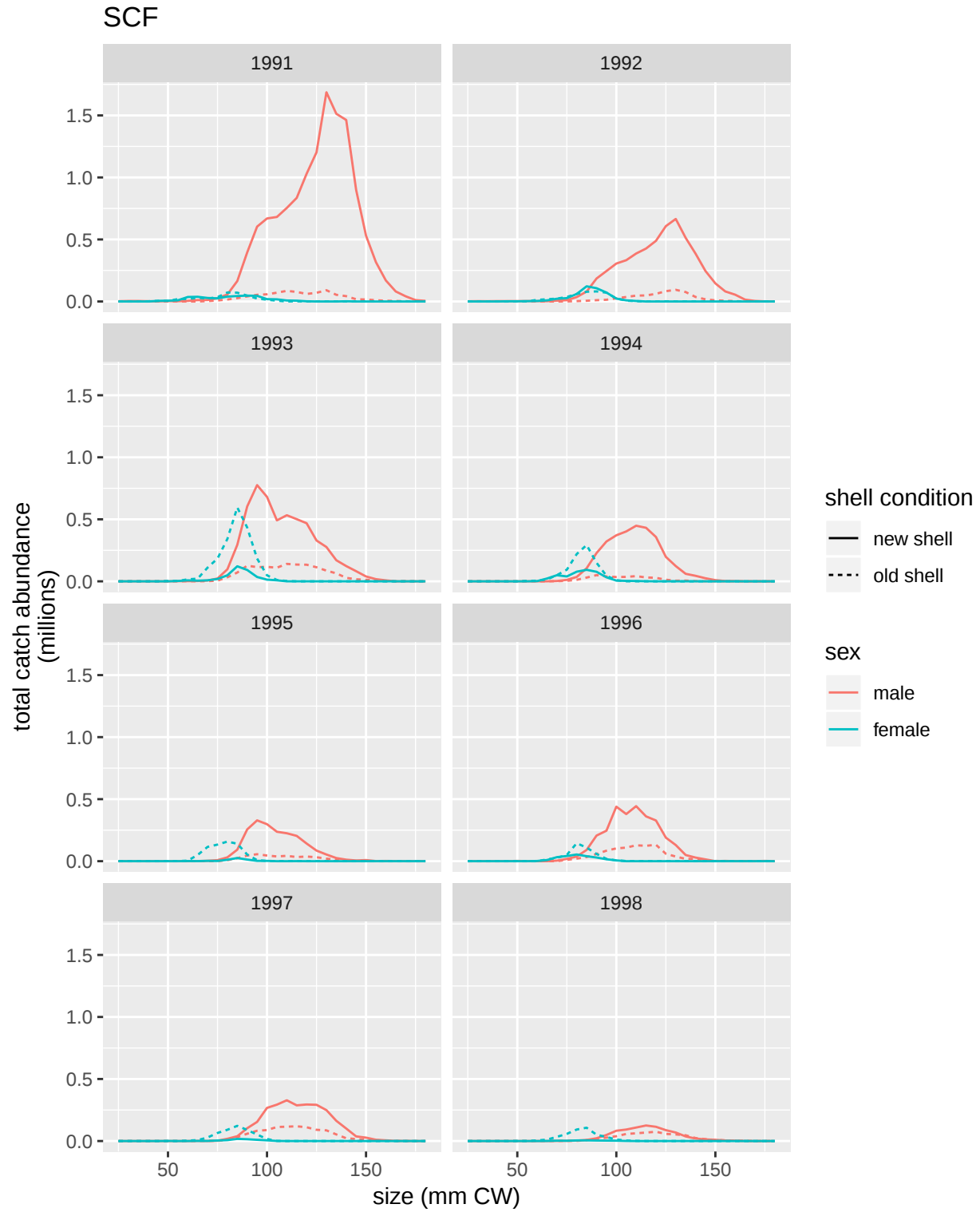


Figure 15: Total catch size compositions for SCF at 5-mm bin size.

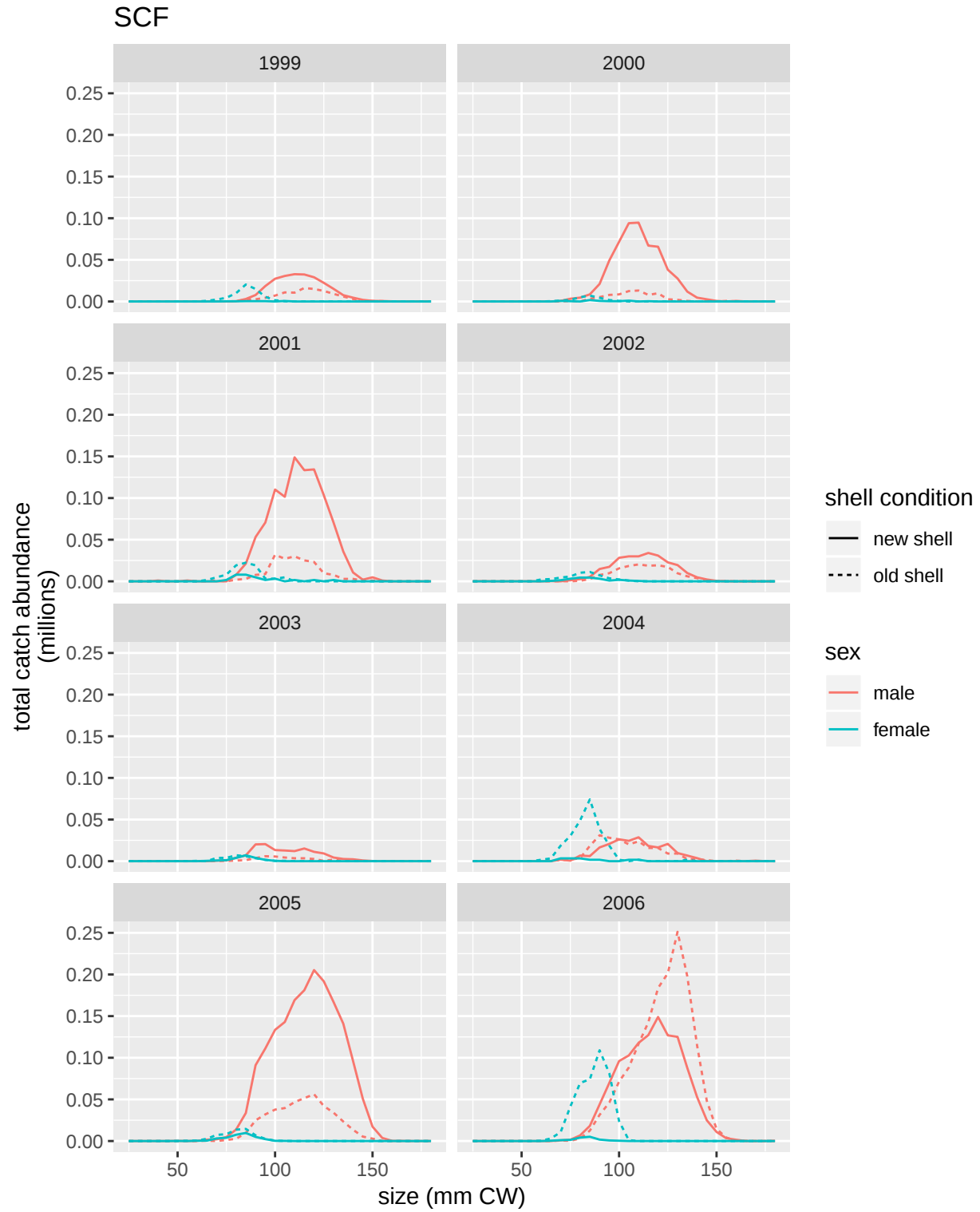


Figure 16: Total catch size compositions for SCF at 5-mm bin size.

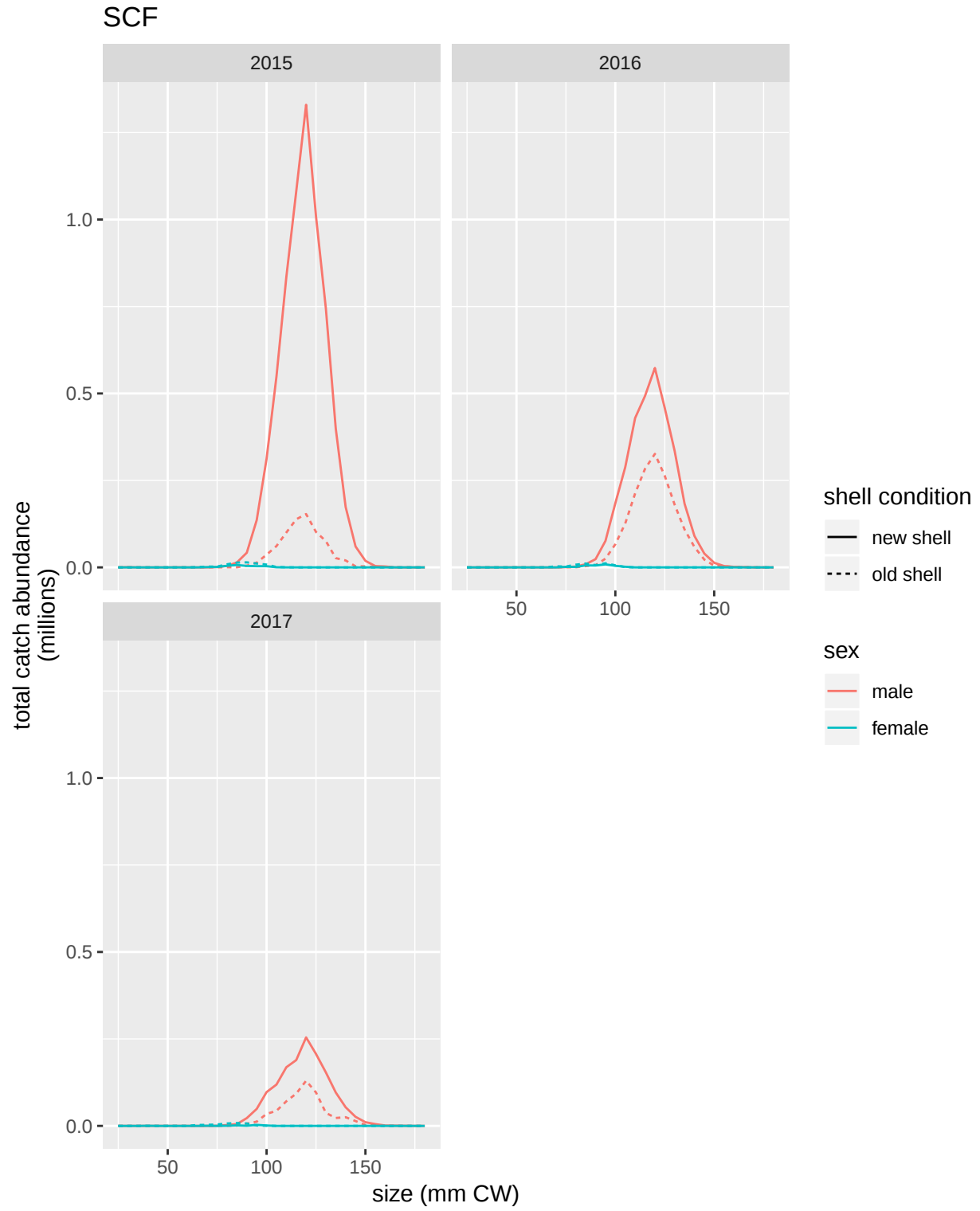


Figure 18: Total catch size compositions for SCF at 5-mm bin size.

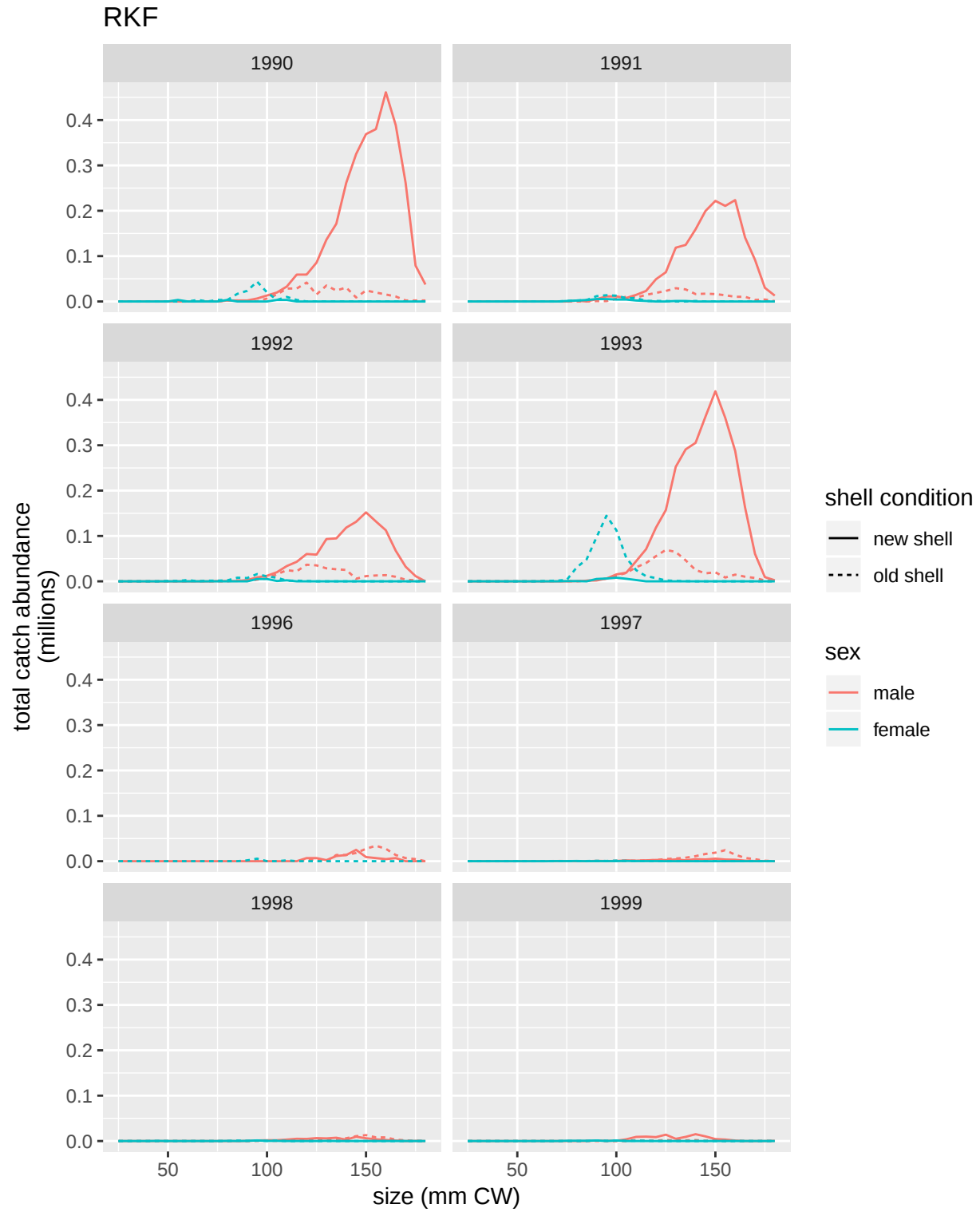


Figure 19: Total catch size compositions for RKF at 5-mm bin size.

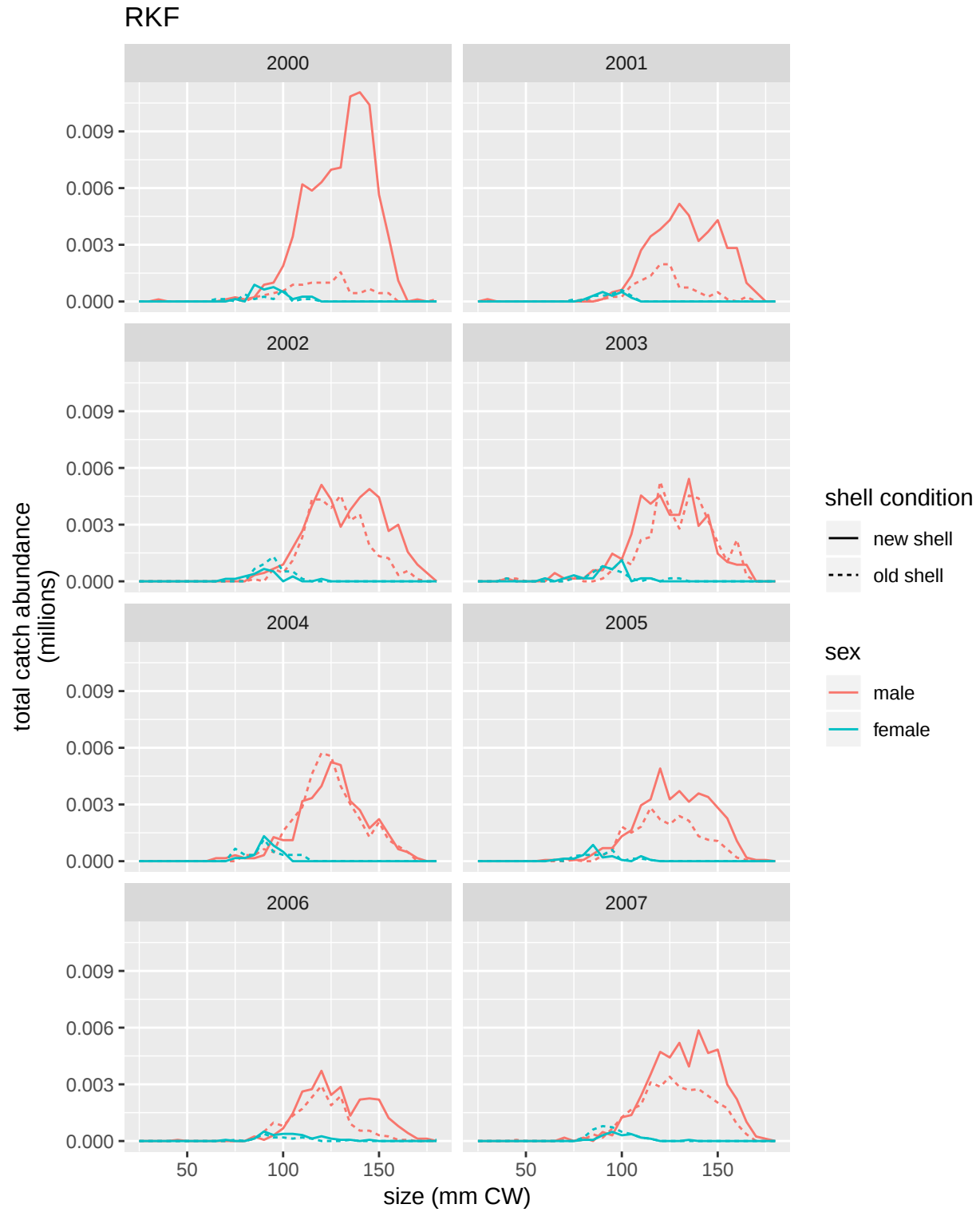


Figure 20: Total catch size compositions for RKF at 5-mm bin size.

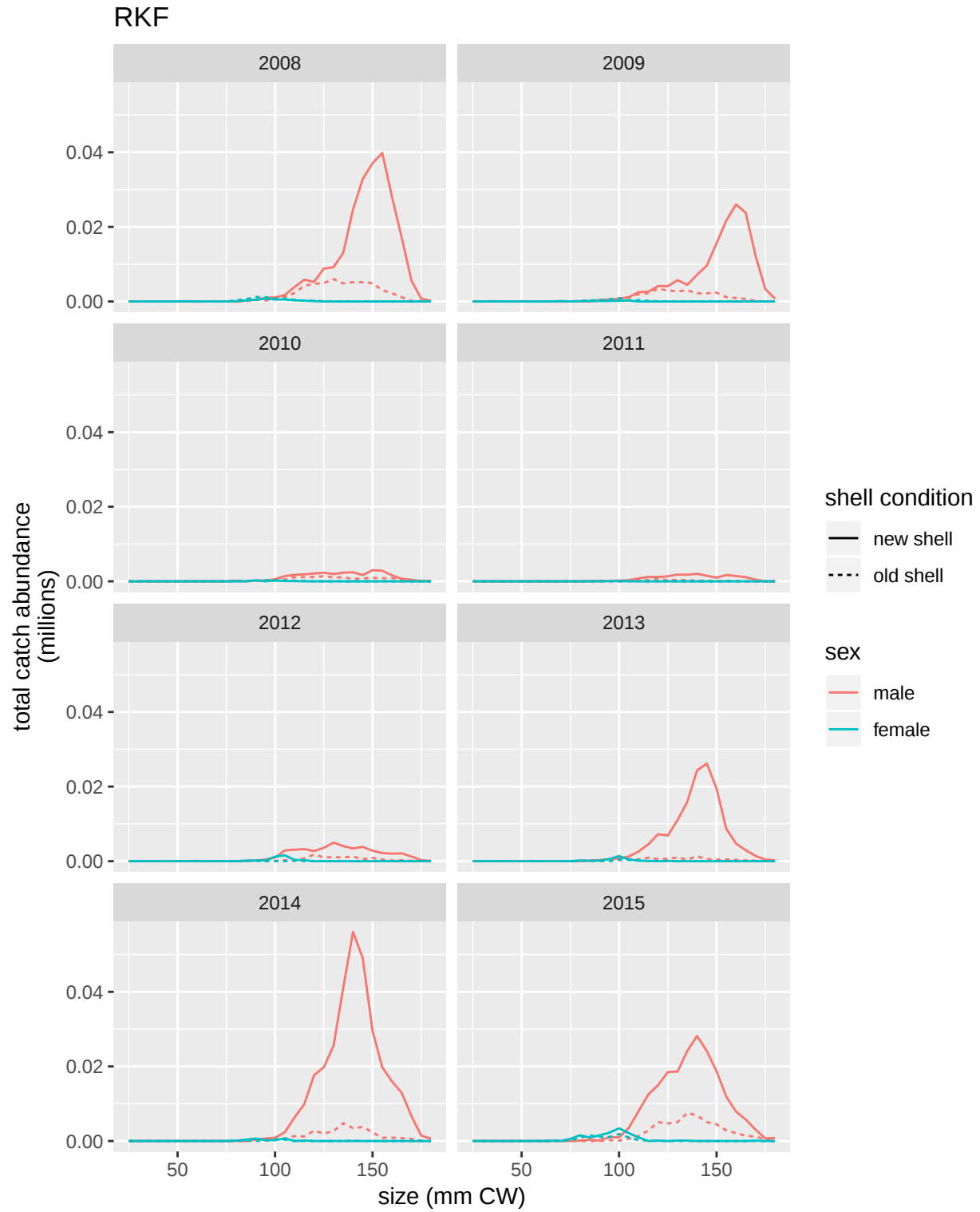


Figure 21: Total catch size compositions for RKF at 5-mm bin size.

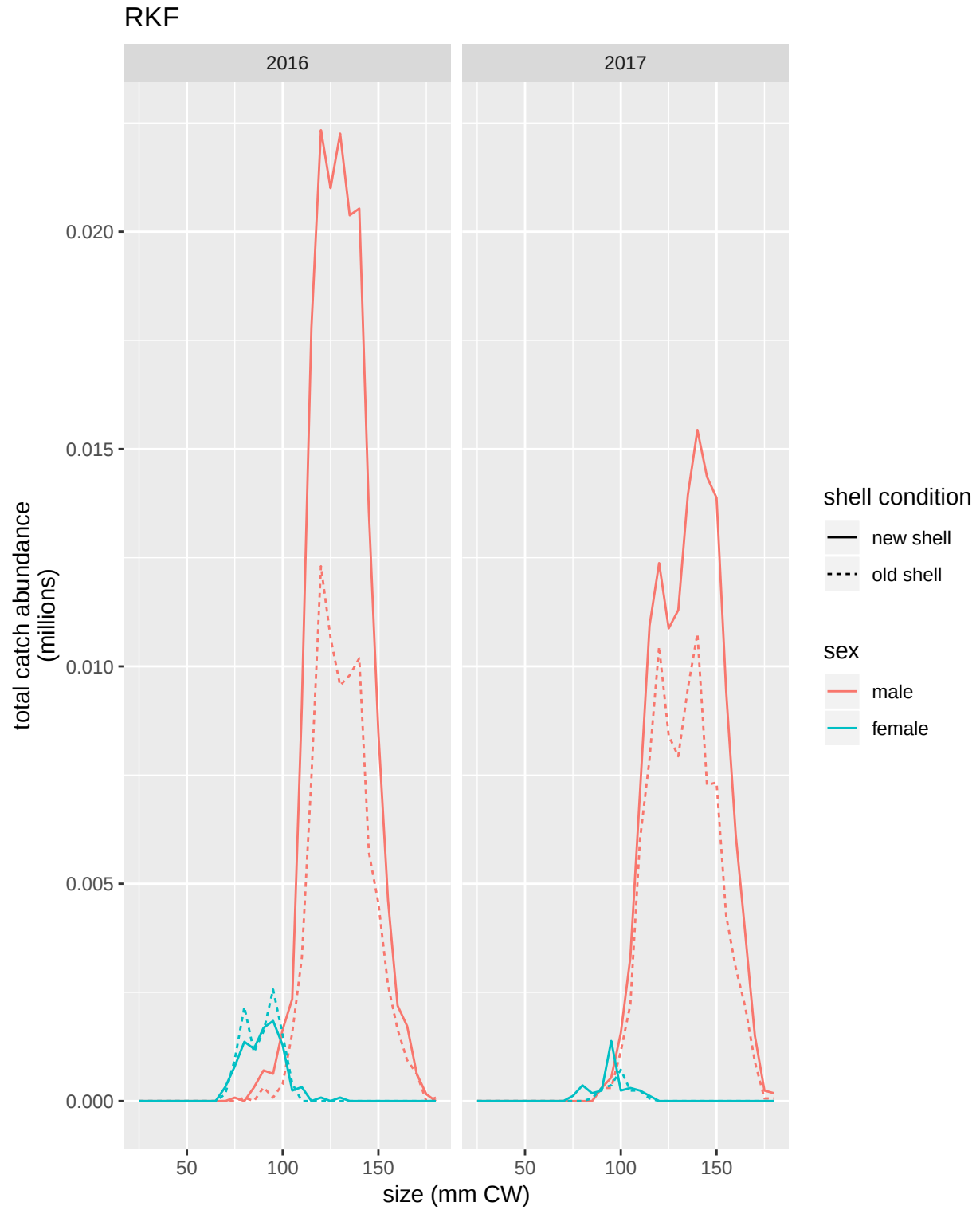


Figure 22: Total catch size compositions for RKF at 5-mm bin size.