



## South Coast Creel Survey Bulletin #4 – August 2010

### Overview:

This bulletin provides a monthly update on estimates of recreational fishing effort and fin fish catch in the marine waters of southern British Columbia (Pacific Fishery Management Areas 11 through 29 and 121 to 127). These estimates are generated from data collected by the DFO's South Coast Creel Survey. A brief overview of the survey, the study area and methods used to collect data and generate these estimates are provided in the first bulletin of 2010, available on the DFO *ExtraNet*:

[http://www-ops2.pac.dfo-mpo.gc.ca/xnet/content/salmon/sc\\_creelbulletins](http://www-ops2.pac.dfo-mpo.gc.ca/xnet/content/salmon/sc_creelbulletins)

*The estimates presented in this bulletin are based on **in-season data** and should be interpreted as **preliminary** and **subject to revision** as the data are finalized.*

### Recreational Fishery Links:

It is your responsibility to know the current fishing regulations prior to fishing. A listing of recreational fishing regulations can be viewed at the Fisheries and Oceans Canada Pacific Region Recreational Fishery webpage:

<http://www.pac.dfo-mpo.gc.ca/fm-gp/rec/index-eng.htm>

In addition, Fisheries and Oceans fishery notices of in-season regulation updates can be viewed at:

<http://ops.info.pac.dfo.ca/fishman/fnotice/fnotice.htm>

### Creel Survey Data:

A summary of survey statistics and preliminary recreational effort (boat trips) by Pacific Fishery Management Area (PFMA) are presented in Table 1 (attached). A map of PFMA's is available in Bulletin #1 of 2010 (Overview Bulletin) or alternatively in the 2009-2011 British Columbia Tidal Waters Sport Fishing Guide.

### Recreational Catch Estimates:

A summary of preliminary kept and released catch estimates for key species by Pacific Fishery Management Area (PFMA) are presented in Table 2 and 3 (attached). Regional kept catch totals for August relative to recent 5-year averages are presented in Figures 1 through 4 (attached). A map of PFMA's is available in Bulletin #1 of 2010 (Overview Bulletin) or alternatively in the 2009-2011 British Columbia Tidal Waters Sport Fishing Guide.

### Contacts:

For additional information on the South Coast Creel Survey Programs, please contact:

***Johnstone Strait and North Island Surveys (PFMA's 11, 12, 26, 27, 126 & 127)***

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***Strait of Georgia Survey (PFMA's 13 – 20, 28 & 29)***

Steve Baillie - Program Head, Strait of Georgia Salmon Stock Assessment  
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***West Coast Vancouver Island Survey (PFMA's 20 – 25 & 121 – 125)***

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**Table 1** Creel survey statistics (interviews and number of flights) and preliminary effort estimates (number of boat trips) by Pacific Fishery Management Area, August 2010.

Pacific Fishery Management Area (PFMA)	Number of Creel Interviews	Number of Effort Count Flights <sup>1</sup>	Effort	
			Estimate	%SE <sup>2</sup>
11	164	7	481	22%
12	1342	7	8,283	8%
13	171	10	6,653	9%
14	140	10	2,802	8%
15	21	9	442	15%
16	47	10	1,128	11%
17	209	9	1,939	12%
18	103	10	599	13%
19	165	10	1,262	12%
20	830	6	13,341	17%
21	10	5	72	24%
121	123	6	167	20%
23	619	10	11,682	9%
123	269	8	2,081	20%
24	55	8	212	23%
124	236	8	1,550	28%
25	355	10	3,517	14%
125	248	10	1,144	19%
26	Lodge Manifest & Logbook Data Only			
126	Lodge Manifest & Logbook Data Only			
27	491	7	2,046	11%
127	284	6	1,293	31%
28	36	8	1,255	19%
29	89	8	4,889	21%
<b>Totals <sup>3</sup></b>	<b>6,007</b>		<b>66,837</b>	

<sup>1</sup> The number of flights where weather conditions allowed effort counts

<sup>2</sup> %SE is a measure of uncertainty; one Standard Error as a percentage of the estimate.

<sup>3</sup> Flights cover multiple PFMA's, so are not additive.



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**Table 2** Preliminary recreational kept catch (pieces) estimates for key species by Pacific Fishery Management Area (PFMA), August 2010. Percent standard error (%SE; one standard error as a percentage of the estimate), a measure of uncertainty, is indicated for estimates from PFMA's where they are calculated in-season.

Pacific Fishery Management Area (PFMA)	Chinook		Coho		Sockeye		Halibut		Lincod		Rockfish <sup>1</sup>	
	Estimate	%SE	Estimate	%SE	Estimate	%SE	Estimate	%SE	Estimate	%SE	Estimate	%SE
11	730	20%	233	24%	126	39%	479	24%	209	31%	671	20%
12	3,611	8%	872	16%	11,553	11%	1,576	13%	269	23%	1,480	11%
13	2,858	33%	301	65%	13,451	18%			42	91%	63	63%
14	1,164	18%	182	29%	156	39%			123	51%	167	52%
15	57	31%							15	65%	232	31%
16	120	40%					18	74%	95	48%	1,032	17%
17	262	31%	27	53%			11	101%	170	31%	322	24%
18	41	54%			970	25%			25	59%	50	47%
19	66	55%	9	103%	95	40%	355	26%	4	77%	276	45%
20	5,616	11%	376	29%	28,673	10%	11	103%	153	37%	789	28%
21	10	111%			226	111%	59	111%				
121	897	14%	168	27%	97	59%	486	21%	20	34%	55	27%
23	8,503	14%	949	39%	11,538	14%	39	86%	65	64%	283	50%
123	5,902	13%	846	23%	166	37%	2,009	22%	232	31%	213	32%
24			79	43%	6	123%					12	123%
124	6,940	20%	565	38%	268	39%	719	36%	302	82%	271	52%
25	4,140	15%	686	40%	24	78%	76	64%	158	58%	496	29%
125	1,652	17%	680	23%	123	46%	757	24%	894	33%	1,132	23%
26 & 126 <sup>2</sup>	1,955		307				875		1,055		924	
27	1,936	12%	4,598	12%	65	27%	236	23%	508	20%	1,056	12%
127	1,917	32%	1,201	32%	86	39%	1,480	30%	2,626	30%	2,566	23%
28	11	68%	11	37%	427	45%						
29	152	51%	156	69%	18,143	25%						
<b>Kept Total <sup>3</sup></b>	<b>48,539</b>		<b>12,247</b>		<b>86,192</b>		<b>9,184</b>		<b>6,965</b>		<b>12,089</b>	

<sup>1</sup> All rockfishes; including those not identified to species

<sup>2</sup> Separate estimates for PFMA 26 & 126 are not available in-season; estimates from lodge manifests only.

<sup>3</sup> Including only those areas with in-season estimates this month.



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**Table 3** Preliminary recreational released catch (pieces) estimates for key species by Pacific Fishery Management Area (PFMA), August 2010. Percent standard error (%SE; one standard error as a percentage of the estimate), a measure of uncertainty, is indicated for estimates from PFMA's where they are calculated in-season.

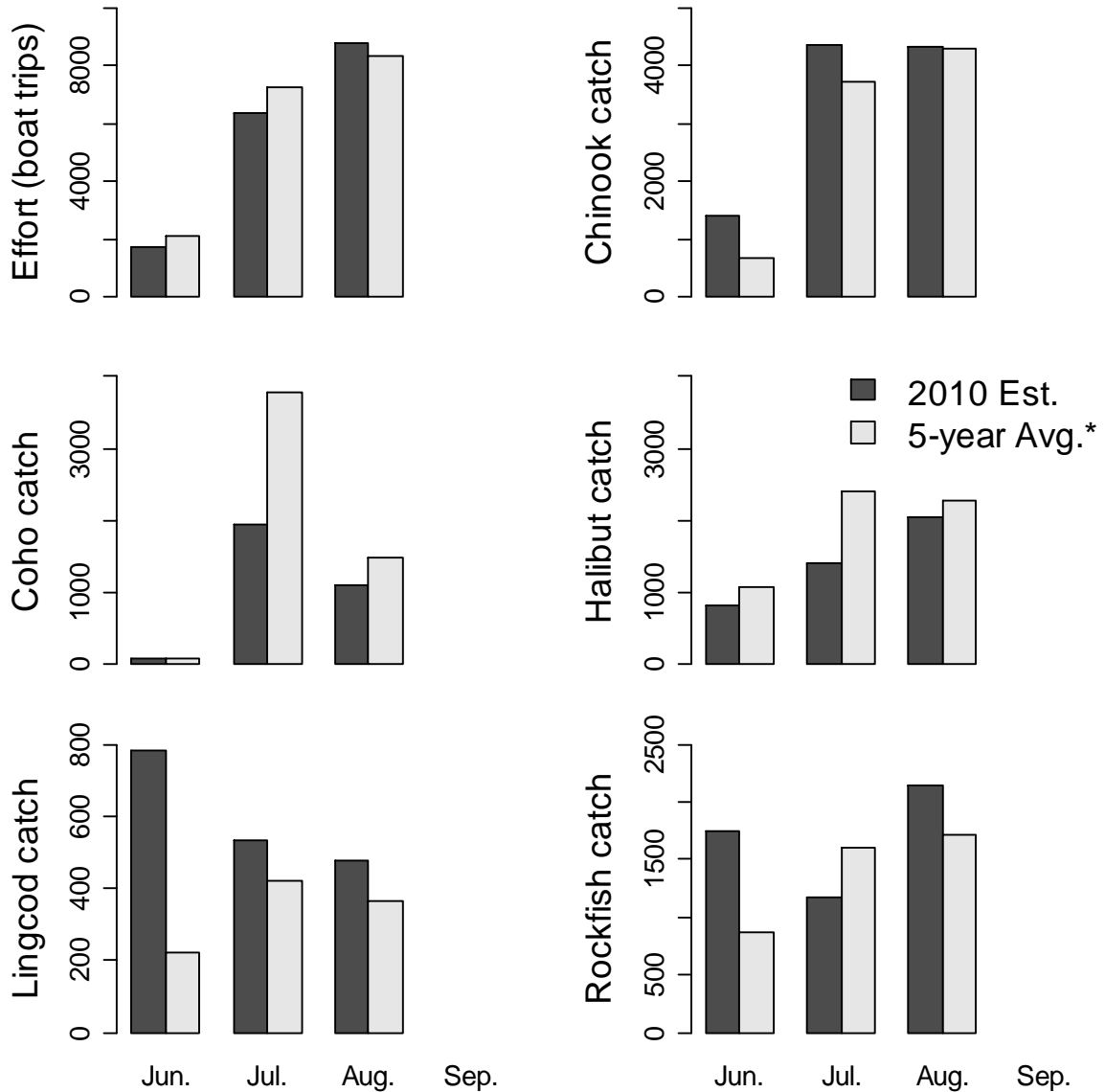
Pacific Fishery Management Area (PFMA)	Chinook		Coho		Sockeye		Halibut		Lincod		Rockfish <sup>1</sup>	
	Estimate	%SE	Estimate	%SE	Estimate	%SE	Estimate	%SE	Estimate	%SE	Estimate	%SE
11	316	26%	56	36%	9	81%	120	43%	177	39%	286	25%
12	3,870	13%	3,279	12%	1,074	21%	228	32%	647	21%	3,707	13%
13	969	34%	847	38%	43	100%			83	53%	155	67%
14	1,235	20%	906	26%					1,347	59%	469	36%
15	193	43%							374	42%	199	29%
16	493	46%	62	68%					3,579	28%	1,921	23%
17	1,772	21%	958	35%					1,352	29%	1,460	27%
18	15	66%	9	78%	26	78%			68	35%	334	44%
19	18	86%	4	108%			36	84%	1,015	35%	131	36%
20	1,302	22%	1,007	27%	834	57%			3,711	32%	1,966	25%
21							20	111%				
121	315	25%	212	41%			24	37%			31	54%
23	2,257	43%	740	44%	723	23%			94	51%	116	40%
123	4,390	21%	1,044	27%	69	43%	31	114%	289	38%	94	43%
24	15	87%	30	63%					31	70%	125	72%
124	4,060	30%	1,367	32%	135	74%	15	85%	385	58%	308	81%
25	1,949	20%	69	66%			234	97%	93	65%	386	81%
125	747	23%	1,857	25%	104	80%	17	60%	317	52%	344	40%
26					In-season Released Estimates Unavailable							
126					In-season Released Estimates Unavailable							
27	1,455	14%	1,510	13%	37	45%	39	42%	320	26%	1,030	31%
127	1,064	34%	922	33%	87	71%	355	39%	653	38%	547	29%
28	24		204		0							
29	77		86		948	78%			37		32	
<b>Released Total <sup>2</sup></b>	<b>26,535</b>		<b>15,167</b>		<b>4,089</b>		<b>1,118</b>		<b>14,570</b>		<b>13,641</b>	

<sup>1</sup> All rockfishes; including those not identified to species

<sup>2</sup> Including only those areas with in-season estimates this month.



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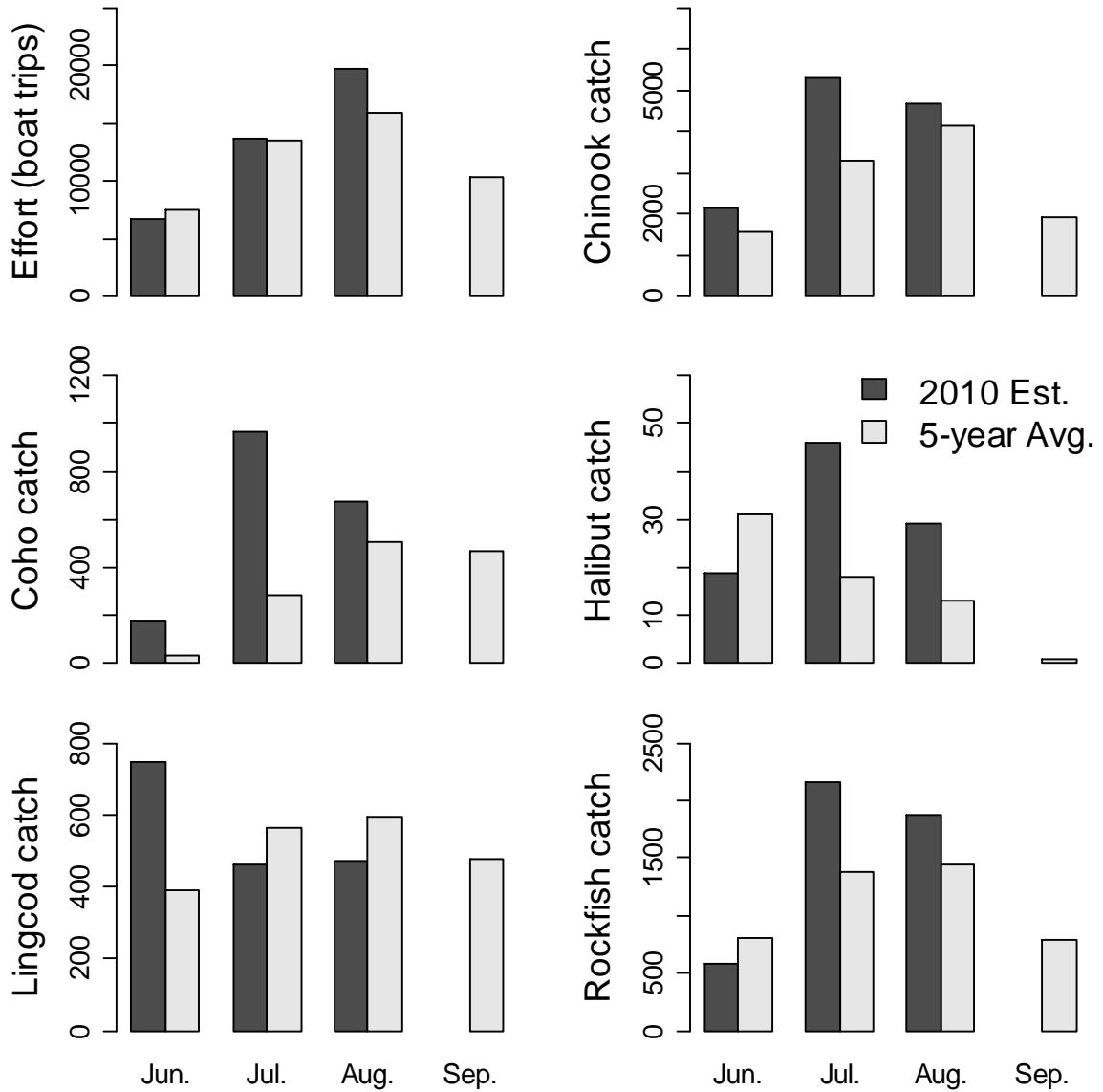


Monthly estimates - Johnstone Strait (PFMA 11,12)

**Figure 1** Monthly estimates of effort and kept catch by species in 2010 (dark bars) and the average over the last five years (2005 to 2009 average, light bars) in July and August or past estimates from the last two years (2008 & 2009) in June for Johnstone Strait (PFMA 11, 12).



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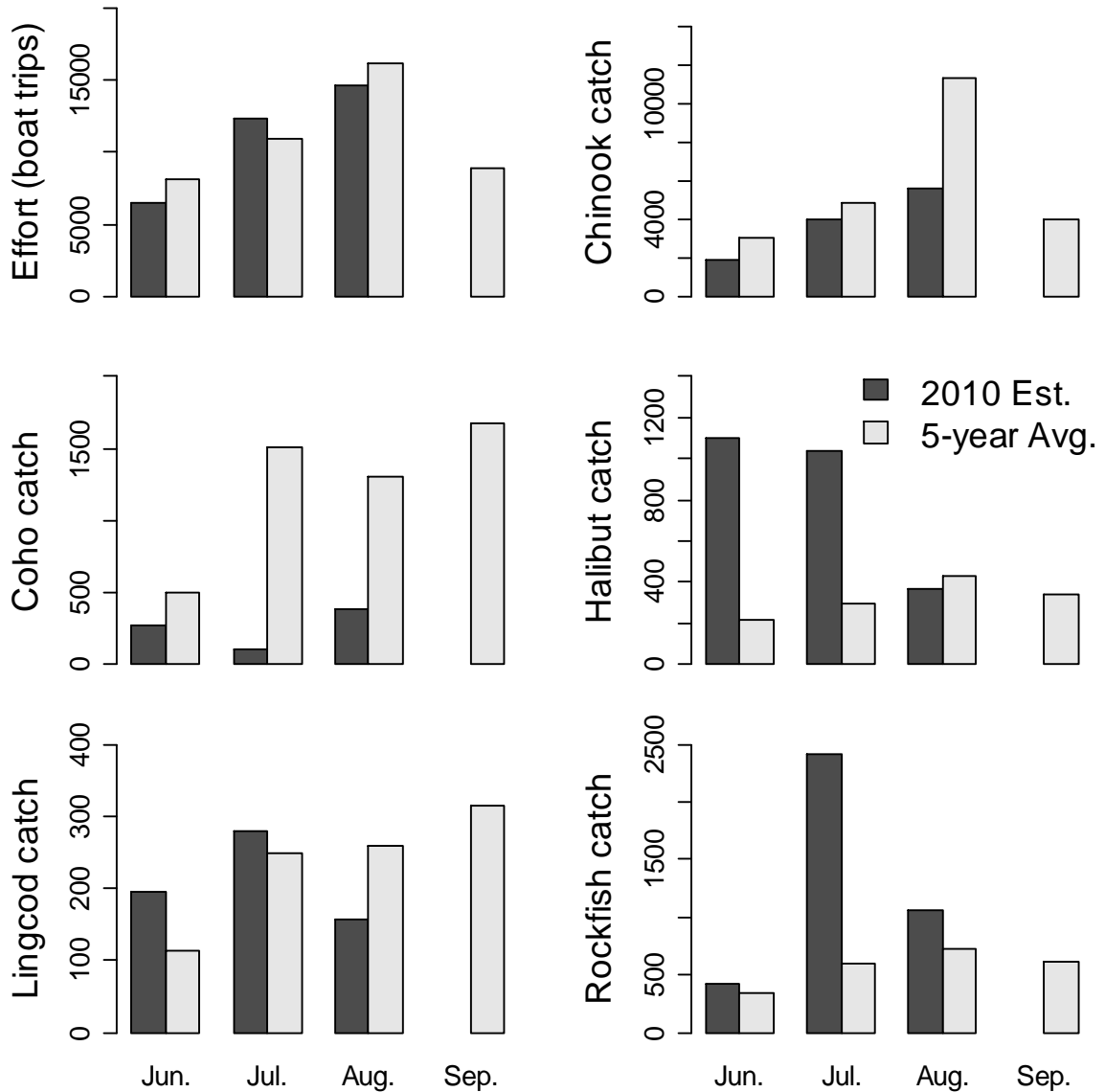


Monthly estimates - Strait of Georgia (PFMA 13-18,28,29)

**Figure 2** Monthly estimates of effort and kept catch by species in 2010 (dark bars) and the average over the last five years (2005 to 2009 average, light bars) for Strait of Georgia (PFMA 13 – 18, 28 & 29).



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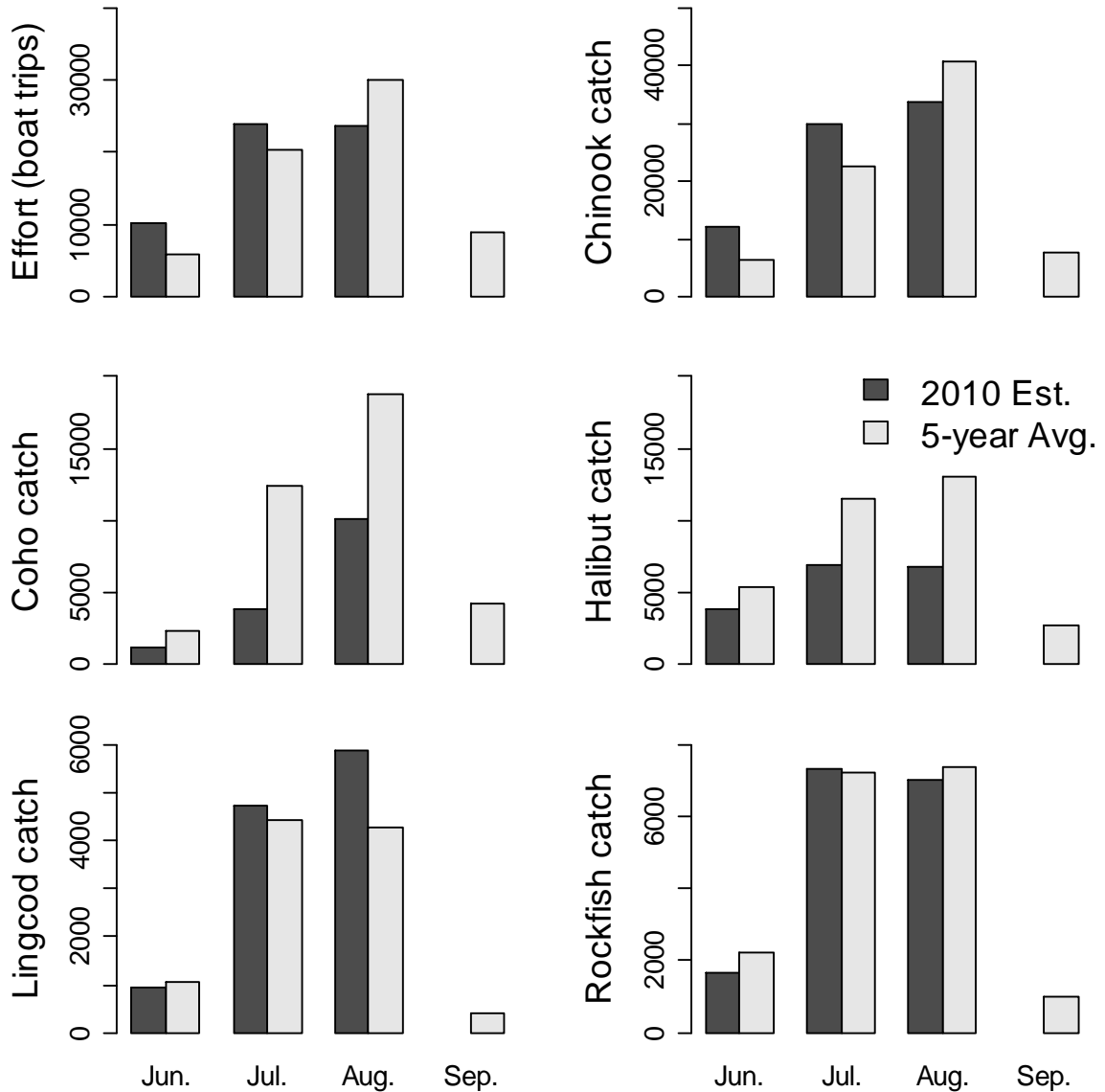


Monthly estimates - Juan de Fuca Strait (PFMA 19-20)

**Figure 3** Monthly estimates of effort and kept catch by species in 2010 (dark bars) and the average over the last five years (2005 to 2009 average, light bars) for Juan de Fuca Strait (including all of PFMA's 19 & 20).



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Monthly estimates - WCVI (PFMA 21,23-27,121-127)

**Figure 4** Monthly estimates of effort and kept catch by species in 2010 (dark bars) and the average over the last five years (2005 to 2009 average, light bars) for the WCVI Creel Survey (PFMA's 21, 23-27, 121-127).