Supplementary Materials

Table S1: Reconstructed Peruvian small-scale fleet size (number of boats) by vessel type between 1950-2018.

Year	VT1 (Unmotorized vessels; L < 8m)	VT2 (Unmotorized vessels; 8m ≤ L ≤ 15m)	VT3 (Motorized vessels; L < 10m)	VT4 (Motorized vessels; 10m ≤ L ≤ 15m)
1950	3420	0	176	4
1951	2989	0	240	4
1952	2708	0	309	4
1953	2460	0	372	4
1954	2558	0	443	44
1955	2565	0	549	44
1956	2819	0	730	44
1957	3297	0	990	70
1958	3652	0	1278	80
1959	3790	0	1517	98
1960	3294	0	1942	98
1961	3125	35	2019	99
1962	2765	40	2309	104
1963	2644	47	2366	110
1964	2520	60	2425	116
1965	2279	64	2603	119
1966	2174	70	2629	135
1967	2075	80	2664	139
1968	1948	99	2702	122
1969	1800	104	2756	129
1970	1575	100	2542	131
1971	1212	85	2101	148
1972	1114	86	2204	152
1973	1042	101	2404	146
1974	974	113	2627	146
1975	916	120	2851	159
1976	831	106	2985	195
1977	737	103	3139	206
1978	670	88	3396	228
1979	595	53	3625	263
1980	474	49	3669	298
1981	363	43	3787	308
1982	341	41	3811	316
1983	406	50	3620	362
1984	487	63	3474	440
1985	554	85	3193	460
1986	652	96	3386	467
1987	714	136	3222	522
1988	828	154	3262	573
1989	948	177	3282	599

Table S1: Reconstructed Peruvian small-scale fleet size (number of boats) by vessel type between 1950-2018. *(continued)*

Year	VT1 (Unmotorized vessels; L < 8m)	VT2 (Unmotorized vessels; 8m ≤ L ≤ 15m)	VT3 (Motorized vessels; L < 10m)	VT4 (Motorized vessels; 10m ≤ L ≤ 15m)
1990	1023	195	3346	591
1991	1168	213	3429	586
1992	1272	232	3364	588
1993	1393	256	3348	581
1994	1535	269	3305	603
1995	1695	305	3369	588
1996	1886	304	3459	609
1997	1848	301	3573	676
1998	1855	277	3718	776
1999	1818	277	3861	836
2000	1771	294	4048	919
2001	1710	289	4151	1000
2002	1664	296	4288	1137
2003	1615	292	4400	1281
2004	1578	287	4574	1423
2005	1582	275	4841	1621
2006	1570	273	5183	1788
2007	1615	270	5854	1928
2008	1693	295	6786	2045
2009	1798	321	7946	2214
2010	1855	364	9122	2407
2011	1867	406	10360	2502
2012	1815	369	10887	2646
2013	1803	349	11497	2802
2014	1759	348	12140	2938
2015	1707	344	12828	3041
2016	1631	329	13341	3155
2017	1554	309	13866	3280
2018	1468	292	14415	3406

Table S2: Summary indicators of the segmented regression analysis of nominal and effective fishing effort (nE_t and E_t , respectively) time series. 'Breakpoints' reflect changes in the slope of the regression (in years). 'Slope' is the rate of change in fishing effort between breakpoints. The 'p-values' reflect the statistical significance of the regression, whilst the 'Adjusted R^2' reflects the proportion of the variation in slope explained by the regression. Breakpoints and slopes are presented next to their respective standard errors (SE).

Fishing methods	Effort metrics	Breakpoints (± SE) †	Slope (± SE) ‡	p-value §	Adjusted R^2
Gillnets	nE_t	1950 (± 0)	0.351 (±0.017)	5.60E-29*	0.9796
		1982.77 (± 0.8)	-0.370 (±0.059)	4.04E-18*	
		1997.44 (± 1.36)	0.269 (±0.186)	1.09E-03*	
		2004.48 (± 0.65)	1.616 (±0.188)	1.28E-09*	
	E_t	1950 (± 0)	0.331 (±0.021)	2.02E-23*	0.9886
		1986.51 (± 1.25)	-0.409 (±0.130)	4.03E-07*	
		1997.22 (± 1.28)	0.591 (±0.245)	1.32E-04*	
		2005.56 (± 0.43)	3.441 (±0.231)	3.28E-18*	
Handlines	nE_t	1950 (± 0)	0.116 (±0.017)	2.23E-09*	0.9592
		1980.42 (± 1.43)	-0.350 (±0.129)	5.84E-04*	
		1989 (± 2.21)	-0.015 (±0.132)	1.37E-02*	
		2007.28 (± 0.37)	1.719 (±0.086)	1.20E-28*	
	E_t	1950 (± 0)	0.113 (±0.019)	1.44E-07*	0.9830
		1981.4 (± 1.79)	-0.334 (±0.155)	5.33E-03*	
		1988.99 (± 2.35)	0.009 (±0.160)	3.63E-02*	
		2007.71 (± 0.23)	3.286 (±0.105)	3.31E-39*	
Hands or tools (divers)	nE_t	1950 (± 0)	0.022 (±0.002)	1.71E-13*	0.9977
		1983.18 (± 0.45)	0.185 (±0.005)	4.70E-41*	
		2006.45 (± 0.27)	0.837 (±0.095)	4.19E-09*	
		2009.14 (± 0.25)	0.173 (±0.097)	3.97E-09*	
	E_t	1950 (± 0)	0.038 (±0.022)	9.67E-02	0.9970
		1961.39 (± 9.9)	0.018 (±0.024)	4.26E-01	
		1984.42 (± 0.63)	0.280 (±0.014)	5.41E-27*	
		2004 (± 0.36)	0.786 (±0.019)	9.14E-35*	

† units in years
‡ units in million kW·days·year^{-1}
§ statistically significant p-values ($p < 0.05$) are indicated with an asterisk (*)

Table S2: Summary indicators of the segmented regression analysis of nominal and effective fishing effort (nE_t and E_t , respectively) time series. *(continued)*

Fishing methods	Effort metrics	Breakpoints (± SE) †	Slope (± SE) ‡	p-value §	Adjusted R^2
Longlines	nE_t	1950 (± 0)	0.036 (±0.005)	6.26E-10*	0.9983
		1980.76 (± 0.37)	0.427 (±0.012)	7.61E-40*	
		1998.99 (± 2.91)	0.487 (±0.021)	6.08E-03*	
		2012 (± 0.83)	0.754 (±0.050)	1.43E-06*	
	E_t	1950 (± 0)	0.035 (±0.006)	1.09E-07*	0.9993
		1981.65 (± 0.33)	0.566 (±0.014)	5.80E-44*	
		2000.28 (± 0.32)	1.303 (±0.032)	6.43E-32*	
		2011.52 (± 0.2)	2.756 (±0.065)	3.52E-31*	
Purse seine nets	nE_t	1950 (± 0)	0.083 (±0.017)	8.12E-06*	0.9879
		1974.12 (± 4.04)	0.172 (±0.027)	1.44E-03*	
		1996.45 (± 0.79)	0.694 (±0.042)	2.10E-18*	
		2012 (± 0.81)	0.036 (±0.121)	1.05E-06*	
	E_t	1950 (± 0)	0.126 (±0.081)	1.22E-01	0.9896
		1963.01 (± 8.18)	0.000 (±0.156)	4.22E-01	
		1973.95 (± 3.50)	0.274 (±0.139)	5.32E-02	
		1997.6 (± 0.57)	1.542 (±0.057)	4.28E-31*	
Squid jigs	nE_t	1950 (± 0)	0.009 (±0.003)	4.64E-03*	0.9993
		1997.8 (± 0.36)	0.729 (±0.093)	1.18E-10*	
		2002.72 (± 0.17)	2.693 (±0.098)	1.89E-28*	
		2012.73 (± 0.24)	1.455 (±0.077)	1.55E-23*	
	E_t	1950 (± 0)	0.000 (±0.008)	1.00E+00	0.9993
		1988.8 (± 3.73)	0.107 (±0.064)	1.02E-01	
		1998.65 (± 0.65)	1.069 (±0.194)	5.82E-06*	
		2003.63 (± 0.14)	5.516 (±0.186)	1.19E-32*	
Traps	nE_t	1950 (± 0)	0.001 (±0.001)	2.02E-01*	0.9748
		1985.16 (± 1.44)	0.036 (±0.007)	1.91E-05*	
		1995.47 (± 2.24)	0.061 (±0.009)	7.25E-03*	
		2007.98 (± 0.57)	-0.036 (±0.008)	5.51E-17*	
	E_t	1950 (± 0)	0.002 (±0.001)	2.66E-01	0.9803
		1986.28 (± 1.27)	0.051 (±0.008)	3.49E-08*	
		1998.02 (± 1.39)	0.109 (±0.013)	2.61E-05*	
		2008 (± 0.66)	-0.017 (±0.014)	2.22E-12*	

† units in years
‡ units in million kW·days·year^{-1}
§ statistically significant p-values ($p < 0.05$) are indicated with an asterisk (*)

Table S2: Summary indicators of the segmented regression analysis of nominal and effective fishing effort (nE_t and E_t , respectively) time series. *(continued)*

Fishing methods	Effort metrics	Breakpoints (± SE) †	Slope (± SE) ‡	p-value §	Adjusted R^2
Trawl nets	nE_t	1950 (± 0)	0.000 (±0.001)	9.39E-01	0.9964
		1972.53 (± 3.2)	0.007 (±0.002)	1.16E-03*	
		1989.71 (± 0.81)	0.037 (±0.003)	9.88E-15*	
		2002.1 (± 0.52)	0.086 (±0.003)	5.62E-23	
	E_t	1950 (± 0)	0.000 (±0.001)	8.13E-01	0.9989
		1974.44 (± 2.44)	0.009 (±0.002)	5.74E-05*	
		1990.71 (± 0.51)	0.055 (±0.003)	1.92E-23*	
		2003.56 (± 0.18)	0.185 (±0.003)	1.63E-47*	
All methods	nE_t	1950 (± 0)	0.551 (±0.017)	1.64E-40*	0.9976
		1998.67 (± 0.53)	3.039 (±0.314)	6.11E-11*	
		2005.47 (± 0.35)	8.087 (±0.444)	1.02E-16*	
		2012.41 (± 0.67)	5.286 (±0.506)	6.92E-07*	
	E_t	1950 (± 0)	0.662 (±0.015)	2.27E-47*	0.9996
		1995.64 (± 0.41)	3.379 (±0.262)	4.39E-15*	
		2002.68 (± 0.27)	9.445 (±0.510)	1.54E-17*	
		2007.24 (± 0.19)	17.248 (±0.457)	6.60E-25*	

† units in years
‡ units in million kW·days·year^{-1}
§ statistically significant p-values ($p < 0.05$) are indicated with an asterisk (*)

Table S3: Summary indicators of the segmented regression analysis of nominal Catch per unit of Effort ($nCPUE_t$) time series. 'Breakpoints' reflect changes in the slope of the regression (in years). 'Slope' is the rate of change in $nCPUE_t$ between breakpoints. The 'p-values' reflect the statistical significance of the regression, whilst the 'Adjusted R^2' reflects the proportion of the variation in slope explained by the regression. Breakpoints and slopes are presented next to their respective standard errors (SE).

Fishing methods	Breakpoints (± SE) †	Slope (± SE) ‡	p-value §	Adjusted R^2
Gillnets	1950 (±0)	-6.38 (±0.37)	3.46E-25*	0.9631
	1958.37 (±0.39)	-0.6 (±0.38)	2.45E-22*	
	1980.11 (±2.01)	0.34 (±0.18)	2.62E-06*	
	1996.78 (±2.27)	-0.49 (±0.18)	2.35E-05*	
Handlines	1950 (±0)	-0.92 (±0.28)	1.96E-03*	0.5191
	1959.67 (±1.98)	0.03 (±0.29)	1.56E-03*	
	1994.05 (±2.66)	1.52 (±1.82)	4.17E-01	
	1998 (±1.91)	-0.62 (±1.82)	2.45E-01	
Hands or tools (Divers)	1950 (±0)	0.72 (±0.3)	1.94E-02*	0.8440
	1966 (±1.89)	3.21 (±0.59)	8.74E-05*	
	1978.5 (±0.79)	-2.87 (±0.65)	2.04E-13*	
	1992.99 (±1.55)	-0.2 (±0.43)	6.13E-08*	
Longlines	1950 (±0)	-7.6 (±0.8)	1.50E-13*	0.9003
	1952.34 (±0.18)	-0.17 (±0.8)	3.39E-13*	
	1989.29 (±1.39)	0.29 (±0.05)	7.74E-14*	
	2009.09 (±1.85)	-0.23 (±0.15)	1.34E-03*	
Purse seine nets	1950 (±0)	-20.69 (±1.94)	1.56E-15*	0.9060
	1954 (±0.4)	-3.25 (±2.26)	1.43E-10*	
	1961.51 (±1.58)	-0.05 (±1.16)	7.90E-03*	
	2003.49 (±6.02)	0.57 (±0.38)	1.07E-01	
Squid jigs	1990 (±0)	-0.79 (±0.46)	9.76E-02	0.9514
	1998.27 (±0.31)	14.11 (±1.64)	1.06E-08*	
	2002 (±0.24)	-3.67 (±1.72)	1.03E-09*	
	2010 (±1.77)	-1.58 (±0.81)	1.72E-02*	
Traps	1950 (±0)	0.02 (±0.02)	3.58E-01	0.8271
	1984.99 (±2.53)	0.29 (±0.05)	1.70E-09*	
	2004 (±1.9)	-0.16 (±0.1)	1.64E-01	
	2016.64 (±2.24)	-0.96 (±1.69)	1.88E-01	

† units in years
‡ units in (kg/kW·days)·year^{-1}
§ statistically significant p-values ($p < 0.05$) are indicated with an asterisk (*)

Table S3: Summary indicators of the segmented regression analysis of nominal Catch per unit of Effort ($nCPUE_t$) time series. *(continued)*

Fishing methods	Breakpoints (± SE) †	Slope (± SE) ‡	p-value §	Adjusted R^2
Trawl nets	1970 (±0)	-17.13 (±1.83)	1.30E-11*	0.8649
	1978.64 (±0.59)	1.81 (±2.15)	6.87E-11*	
	1989.72 (±2.63)	-1.73 (±1.28)	8.41E-03*	
	2006.92 (±2.46)	1.88 (±1.15)	3.33E-03*	
All methods	1950 (±0)	-4.32 (±0.31)	9.34E-21*	0.9276
	1958.69 (±0.43)	-0.11 (±0.31)	4.51E-20*	
	1994.37 (±2.12)	0.63 (±0.18)	1.33E-04*	
	2007.13 (±1.36)	-0.82 (±0.29)	4.54E-06*	

† units in years
‡ units in (kg/kW·days)·year^{-1}
§ statistically significant p-values ($p < 0.05$) are indicated with an asterisk (*)

Table S4: Decadal average values of effective catch per unit of effort (*CPUE*) of the Peruvian small-scale fleet, segregated by fishing method. *CPUE* values are expressed in kg/kW·days and presented next to their respective standard errors (±SE).

	Divers	Gillnets	Handlines	Longlines	Purse seine nets	Squid jigs	Traps	Trawl nets
1950-1959	8.1 (±2.5)	59.8 (±8.8)	13.8 (±1.5)	13.2 (±2.9)	88.9 (±17)	NA	0.4 (±0.1)	NA
1960-1969	14.6 (±1.2)	16.9 (±1.5)	5.2 (±0.3)	4.4 (±0.4)	27 (±1.9)	NA	0.3 (±0)	NA
1970-1979	47.4 (±3.2)	10.2 (±1.2)	9.2 (±1)	3 (±0.4)	30.5 (±3.2)	NA	0.9 (±0.1)	89 (±19.2)
1980-1989	36.9 (±3.8)	6.4 (±0.5)	5.2 (±0.4)	1.2 (±0.2)	21 (±1)	NA	0.8 (±0.1)	26.7 (±2.6)
1990-1999	10.9 (±1.8)	8.7 (±0.7)	7.1 (±1.2)	1.3 (±0.3)	16.1 (±1.2)	3.5 (±0.8)	4.4 (±0.5)	23.8 (±2.9)
2000-2009	7.2 (±0.3)	4.2 (±0.7)	6 (±0.9)	3.2 (±0.2)	14.8 (±1)	27.0 (±2.3)	5.5 (±0.7)	8.8 (±1.1)
2010-2018	4.8 (±1.0)	1.6 (±0.2)	1.4 (±0.1)	2.5 (±0.2)	13.4 (±0.5)	8.9 (±1)	4.6 (±0.5)	11.5 (±1.3)

Table S5: Annual average off-vessel prices (in real US dollars per ton; base year: 2009) of marine living resources landed by the Peruvian small-scale fleet between 2009–2018. Source of data: Marine Institute of Peru (IMARPE).

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Anchoveta	166	197	317	435	342	321	1792	271	385	345
Basses, groupers, hinds	4983	5416	5223	5246	5505	4892	4483	2926	4845	4695
Blue shark	983	1138	1216	1263	1191	1029	823	726	891	835
Blue spiny lobster	7534	8297	12128	9035	8775	3960	4190	5216	4704	4971
Cabinza grunt	688	855	888	986	1023	942	961	745	730	779
Californian needlefish	547	691	458	484	450	434	389	364	358	533
Chalapo clinid	2909	2982	3627	4064	4255	3445	3100	2887	2593	3147
Changos octopus	2698	2364	3375	4504	3145	2736	2200	1976	3011	5313
Chilean abalone	3259	4340	5827	6427	4774	4383	4413	4150	3072	2440
Chilean jack mackerel	1202	1628	1235	1116	1144	1291	1345	1346	913	1111
Chilean ribbed mussel	1531	884	1011	1138	955	918	779	680	667	763
Chilean silverside	575	900	890	764	876	706	972	925	1072	962
Clams	3249	1001	977	992	1319	1288	1017	835	756	704
Common dolphinfish	1411	1721	2028	1774	1447	1617	1491	1822	1942	1447
Common thresher	1366	1677	1529	1767	1607	1688	1228	1328	1374	1391
Corvina drum	6650	7420	7087	6874	6499	5532	4467	4394	4574	5141
Cusk-eels	2483	2478	2535	2747	2825	2581	2285	2100	2223	2221
Echinoderms	399	460	896	664	627	628	856	933	1946	800
Eastern Pacific bonito	1640	2179	2235	1781	1360	1363	1248	1125	990	1001
Flatfishes	6433	6585	6962	7323	7163	6600	6067	5227	5647	5743
Flathead grey mullet	1205	1420	1362	1206	1232	1061	1077	937	820	847
Flyingfish	966	1613	2546	2008	1889	2368	2112	1170	1944	2226
Fortune jack	4097	3254	5469	3463	3568	3600	3052	2663	2762	2460
Grape-eye seabass	4752	4692	5103	3985	5312	3773	4468	2341	2633	3261
Humpback smooth hound	1550	2052	2230	2229	2144	2034	1807	1572	1671	1784
Jumbo flying squid	197	318	401	271	279	293	189	361	606	649
Limpets	2355	2230	3002	3762	3990	3561	3009	3045	1600	1490
Lorna drum	420	657	728	714	721	743	644	462	446	506
Lumptail searobin	460	521	431	163	173	239	173	172	330	259
Macha clam	510	527	611	438	476	871	124	295	287	275
Marine crabs	1394	938	1348	1556	1456	1489	1316	1468	1465	1669
Marine fishes nei	1136	1382	1533	1607	1475	1307	1314	1081	1044	1102

Table S5: Annual average off-vessel prices (in real US dollars per ton; base year: 2009) of marine living resources landed by the Peruvian small-scale fleet between 2009–2018. *(continued)*

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Minor stardrum	590	632	614	559	584	462	480	408	419	430
Other bivalves	2255	1338	1329	2304	2044	1688	1222	1357	1079	1266
Other sharks	1749	1940	2037	1996	1988	1863	1495	1391	1644	1587
Pacific angelshark	1676	1653	1801	1819	1821	1516	1160	961	1036	1029
Pacific chub mackerel	1197	1128	1125	1060	1067	744	820	545	621	807
Pacific guitarfish	1050	1295	1396	1329	1346	1336	1103	1280	798	951
Pacific menhaden	310	461	595	526	538	526	443	312	364	329
Pacific sardine	332	632	677	820	951	611	378	394	303	336
Pacific sierra	1661	2161	3046	2231	1916	1742	1523	1203	1473	1641
Palm ruff	4684	4714	5065	4774	5139	3666	4269	3824	3691	3795
Paloma pompano	2575	1963	2586	3050	2004	2054	1742	1508	1737	1663
Patagonian squid	1218	1472	3230	2103	1444	1331	1402	1936	2795	3770
Peruvian banded croaker	727	1676	1997	2100	2351	1934	1635	1383	1385	1545
Peruvian calico scallop	4959	870	1347	2546	2177	1980	1273	931	808	586
Peruvian grunt	5128	5557	5620	5557	5705	5310	4758	4289	4022	4174
Peruvian hake	409	389	457	551	341	367	300	302	308	523
Peruvian moonfish	299	204	176	327	174	372	164	139	225	231
Peruvian morwong	1569	2267	2687	2686	2671	2699	2481	2201	1915	2220
Peruvian rock seabass	4892	4020	4010	4009	4003	3360	3293	2658	2569	2735
Peruvian weakfish	1946	2115	2379	2435	2293	1863	1894	1274	1162	1342
Punctuated snake-eel	664	864	795	669	634	581	248	269	323	366
Rays	1230	1155	990	1208	1035	948	734	561	654	600
School shark	2339	2581	3385	2511	3172	2467	2234	1913	2089	2088
Sea snails	1415	1220	1015	680	677	501	630	627	555	775
Shortfin mako	2339	2581	2734	2511	2631	2519	1978	1913	2089	2088
Shrimp	6645	6914	6769	4685	4191	2404	1675	3827	9917	10418
Skipjack tuna	941	739	802	601	988	696	566	479	574	717
Smooth hammerhead	2180	2108	2507	2405	2348	2115	1820	1691	2049	1732
Snooks	5351	7951	4231	4732	5075	4636	4041	2983	4050	4061
Squat Lobster	1916	2015	2246	2171	2089	1918	1675	1502	1619	1686
Swordfish	2033	2651	2923	2908	3233	3223	2925	2604	2724	2707
Tilefish	2531	2730	3209	3296	3155	3013	2509	2254	1894	2098
Yellowfin tuna	2418	1984	2269	2405	2239	2049	1663	1398	1572	1591

Table S6: Main sources of data used to reconstruct the domestic catch within Peru's EEZ[1]

Coverage		Catch segregation					Publication type	Notes	Reference
Spatial[2]	Temporal	Fishing sector	Fishing method	End use	Target species	By-catch species			
National	1966	Yes	No	Yes	Yes	No	Report*	-	Borgo Derpich et al., (1967)
National	1967	Yes	No	Yes	Yes	No	Report*	-	Borgo Derpich et al. (1969)
National	1968	Yes	No	Yes	Yes	No	Report*	-	Vásquez Aguirre et al. (1969)
National	1969	Yes	No	Yes	Yes	No	Report*	-	Vásquez Aguirre et al. (1970)
Local	1970-1982	Yes	Yes	No	Yes	Yes	Peer-reviewed report*	Data only for the coastal trawl fleet	Espino et al. (1984)
Local	1951-1982	Yes	Yes	Yes	Yes	No	Peer-reviewed report*	Unreported catch estimates for the industrial purse seine fleet	Mendo and Castillo (1987)
Local	1986-1988	Yes	Yes	No	Yes	No	Peer-reviewed report*	Catches for the artisanal sector only	Wosnitza-Mendo et al. (1988)
National	1965-1988	Yes	Yes	No	Yes	No	Peer-reviewed report*	Data only for the coastal trawl fleet	Espino (1990)
National	1983-1992	No	No	No	Yes	No	Peer-reviewed report*	-	Flores et al. (1994)
National	1995	No	No	No	Yes	No	Peer-reviewed report*	-	Flores et al. (1996)
National	1995-1996	No	No	No	Yes	No	Peer-reviewed report*	-	Flores et al. (1997)
National	1996	Yes	Yes	No	Yes	No	Peer-reviewed report*	Data only for small-scale fisheries	Estrella and Guevara-Carrasco (1998)
National	1970-1982	No	No	No	Yes	No	Peer-reviewed report*	-	Flores et al. (1998a)
National	1998-I	Yes	Yes	No	Yes	No	Peer-reviewed report*	Data only for small-scale fisheries, data for January to June	Estrella et al., (1998)
National	1996-1997	No	No	No	Yes	No	Peer-reviewed report*	-	Flores et al. (1998b)
National	1998-II	Yes	Yes	No	Yes	No	Peer-reviewed report*	Data only for small-scale fisheries, data for July to Decembre	Estrella et al. (1999a)
National	1999-I	Yes	Yes	No	Yes	No	Peer-reviewed report*	Data only for small-scale fisheries, data for January to June	Estrella et al. (1999b)
National	1999-II	Yes	Yes	No	Yes	No	Peer-reviewed report*	Data only for small-scale fisheries, data for July to Decembre	Estrella et al. (2000a)
Local	1996-1999	Yes	No	No	Yes	Yes	Peer-reviewed report*	Data only for small-scale fisheries in southern Peru	Treviño et al. (2000)
National	1999	No	No	No	Yes	No	Peer-reviewed report*	-	Fernández et al. (2000)
National	2000-I	Yes	Yes	No	Yes	No	Peer-reviewed report*	Data only for small-scale fisheries, data for January to June	Estrella et al. (2000b)
National	1964-1969	No	No	No	Yes	No	Peer-reviewed report*	-	Marcelo et al. (2001)
National	2000-II	Yes	Yes	No	Yes	No	Peer-reviewed report*	Data only for small-scale fisheries, data for July to Decembre	Estrella et al., (2001)
National	1967-2005	Yes	Yes	Yes	Yes	No	Peer-reviewed scientific publication	Data only for hake fishery	Guevara-Carrasco and Lleonart (2008)

1 Documents labeled with * were produced by the Insitituto del Mar del Peru (IMARPE).

2 The spatial coverage of the defined as local (valid for parts of the country), national (valid for the whole country), regional (extracted from data repositories for South American countries), global (extracted from data repositories of global scope)

Table S6: Main sources of data used to reconstruct the domestic catch within Peru's EEZ (*continued*)

Coverage		Catch segregation					Publication type	Notes	Reference
Spatial[3]	Temporal	Fishing sector	Fishing method	End use	Target species	By-catch species			
National	1950-2005	Yes	Yes	No	Yes	No	Doctoral thesis	Data only for the sardine fishery	Cárdenas-Quintana (2009)
National	2007-2009	Yes	Yes	Yes	Yes	No	Professional thesis	Data only for hake fishery	Bouyer (2009)
National	1950-2008	No	No	No	Yes	No	Undergraduate thesis	Unreported catch estimates for the main coastal target fishes	Caillaux (2011)
National	2001-2010	No	No	Yes	Yes	No	Report	Official landing statistics for Peru	PRODUCE (2011)
National	2002-2011	No	No	Yes	Yes	No	Report	Official landing statistics for Peru	PRODUCE (2012)
National	2003-2012	No	No	Yes	Yes	No	Report	Official landing statistics for Peru	PRODUCE (2013)
National	1950-2012	Yes	Yes	No	Yes	No	Peer-reviewed scientific publication	Data only for Chilean jack mackerel fishery	Ñiquen et al. (2013)
National	1950-2010	Yes	Yes	Yes	Yes	No	Peer-reviewed report	Reconstruction of total marine fisheries catches for Peru	Mendo and Wosnitza-Mendo (2014)
National	1990-2013	Yes	Yes	Yes	Yes	No	Report	Data only for jumbo flying squid fishery	Paredes and De la Puente (2014)
National	1996-2012	Yes	Yes	Yes	Yes	No	Report	Uses detailed unpublished data on small-scale fisheries supplied by IMARPE	Sueiro and De la Puente (2015)
National	1950-2005	Yes	Yes	Yes	Yes	Yes	Peer-reviewed scientific publication	Data only for the sardine fishery	Cárdenas-Quintana et al. (2015)
National	2004-2013	No	No	Yes	Yes	No	Report	Official landing statistics for Peru	PRODUCE (2015a)
National	2005-2014	No	No	Yes	Yes	No	Report	Official landing statistics for Peru	PRODUCE (2015b)
Local	2005-2014	Yes	Yes	Yes	Yes	No	Peer-reviewed scientific publication	Discard estimates for the industrial anchoveta fleet	Torrejón-Magallanes et al. (2016)
National	2006-2015	No	No	Yes	Yes	No	Report)	Official landing statistics for Peru	PRODUCE (2016)
Global	1950-2010	Yes	Yes	Yes	Yes	No	Peer-reviewed scientific publication	Global estimates of FIFO catches by country and species	Cashion et al. (2017)
National	1996-2012	Yes	Yes	No	Yes	No	Peer-reviewed report*	Data only for small-scale fisheries	Marín et al. (2017)
Local	2015-2016	Yes	Yes	No	Yes	Yes	Peer-reviewed scientific publication	Data only for ray species caught by the small-scale gillnet fishery in northern Peru	Alfaro-Córdova et al. (2017)
National	1996-2015	Yes	Yes	Yes	Yes	No	Masters thesis	Reconstruction of total catch for shark species in Peru	De la Puente (2017)
National	2007-2016	No	No	Yes	Yes	No	Report	Official landing statistics for Peru	PRODUCE (2017)
Global	1950-2014	Yes	Yes	No	Yes	No	Peer-reviewed scientific publication	Global estimates of marine catch by fishing gear and sector	Cashion et al. (2018)
National	1985-2017	Yes	Yes	No	Yes	No	Peer-reviewed report*	Data only for jumbo flying squid fishery	Csirke et al. (2018)

3 The spatial coverage of the defined as local (valid for parts of the country), national (valid for the whole country), regional (extracted from data repositories for South American countries), global (extracted from data repositories of global scope)

Table S6: Main sources of data used to reconstruct the domestic catch within Peru's EEZ (*continued*)

Coverage		Catch segregation					Publication type	Notes	Reference
Spatial[4]	Temporal	Fishing sector	Fishing method	End use	Target species	By-catch species			
National	2017	Yes	Yes	Yes	Yes	No	Report	Estimates illegal small-scale anchoveta FIFO catch	Grillo et al. (2018)
National	1997-2014	Yes	Yes	No	Yes	Yes	Masters thesis	Data on bycatch of squat lobster by the industrial anchoveta fleet	Escobedo Oblitas (2018)
Global	1950-2016	No	No	Yes	Yes	No	Report	Global estimates of marine catch by country and species	FAO (2019)
National	1996-2015	Yes	Yes	Yes	Yes	No	Peer-reviewed report*	National catch estimates for the main targeted species of invertebrates	Sanjinez et al. (2018)
National	1959-2015	No	No	No	Yes	No	Peer-reviewed report*	National catch estimates for the main targeted pelagic fish species	Bouchon et al. (2018)
National	2008-2017	No	No	Yes	Yes	No	Report	Official landing statistics for Peru	PRODUCE (2018)
Regional	2010-2016	Yes	Yes	Yes	Yes	No	Report	Estimates of DHC catch data for Brazil, Chile and Peru, including discards	Palacios-Abrantes et al. (2018)
National	1996-2015	Yes	Yes	Yes	Yes	No	Peer-reviewed report*	National catch estimates for the main targeted species of invertebrates	Sanjinez et al. (2019)
National	1950-2018	Yes	Yes	No	Yes	Yes	IMARPE online data repositories	Multiple types of information available online or upon request	[5]
National	1950-2018	Yes	Yes	Yes	Yes	No	PRODUCE online data repositories	Multiple types of information available online or upon request	[6]

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4 The spatial coverage of the defined as local (valid for parts of the country), national (valid for the whole country), regional (extracted from data repositories for South American countries), global (extracted from data repositories of global scope)

5 For general searches start at: <http://www.imarpe.gob.pe/imarpe/>

6 Data for 2018 should be considered 'preliminary' until officially published in a report by PRODUCE (e.g., PRODUCE, 2018). For general searches start at: <https://www.gob.pe/produce>.

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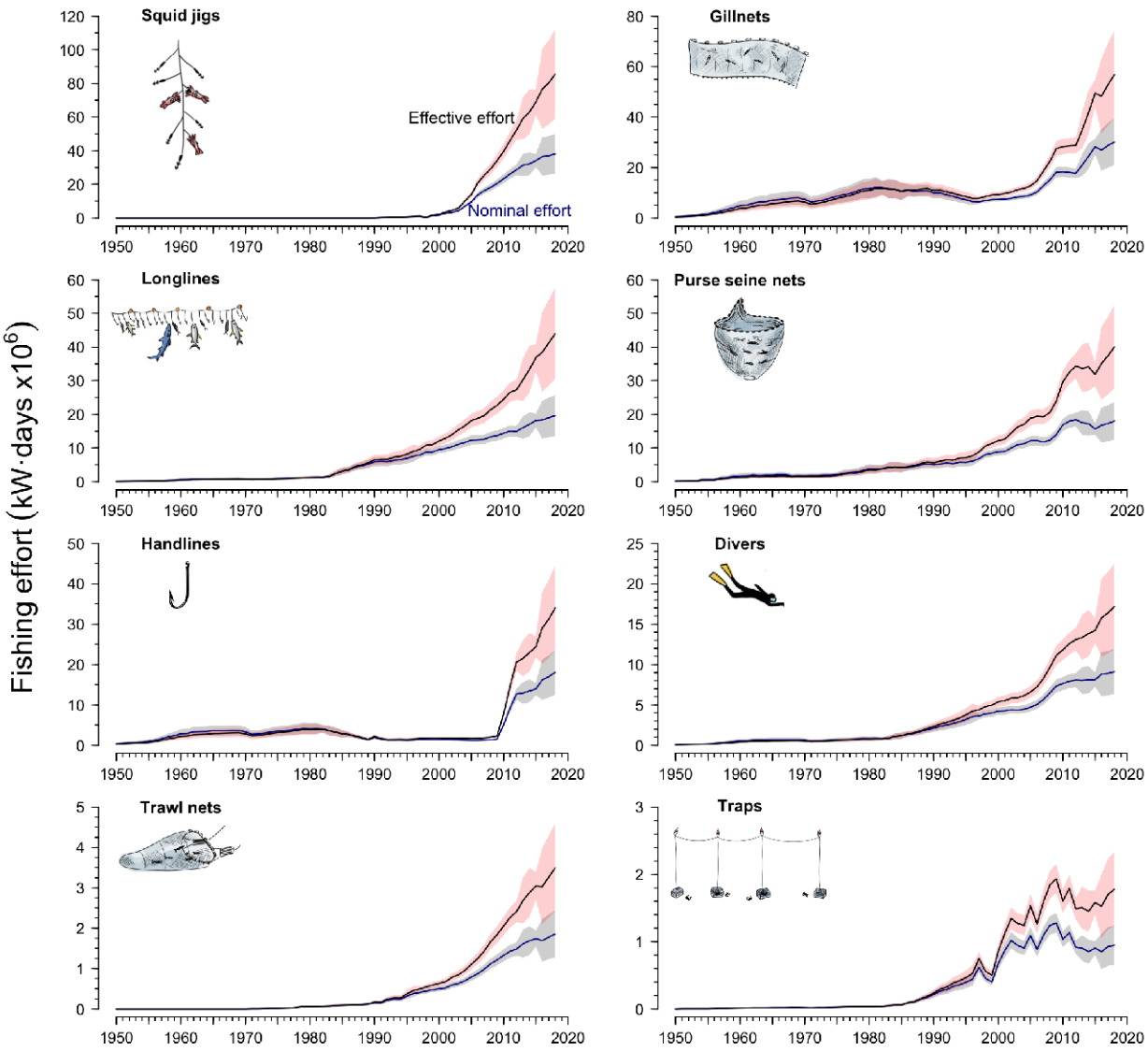

Figure S1: Changes in nominal and effective fishing effort deployed by the Peruvian small-scale fleet between 1950-2018, segregated by fishing method.

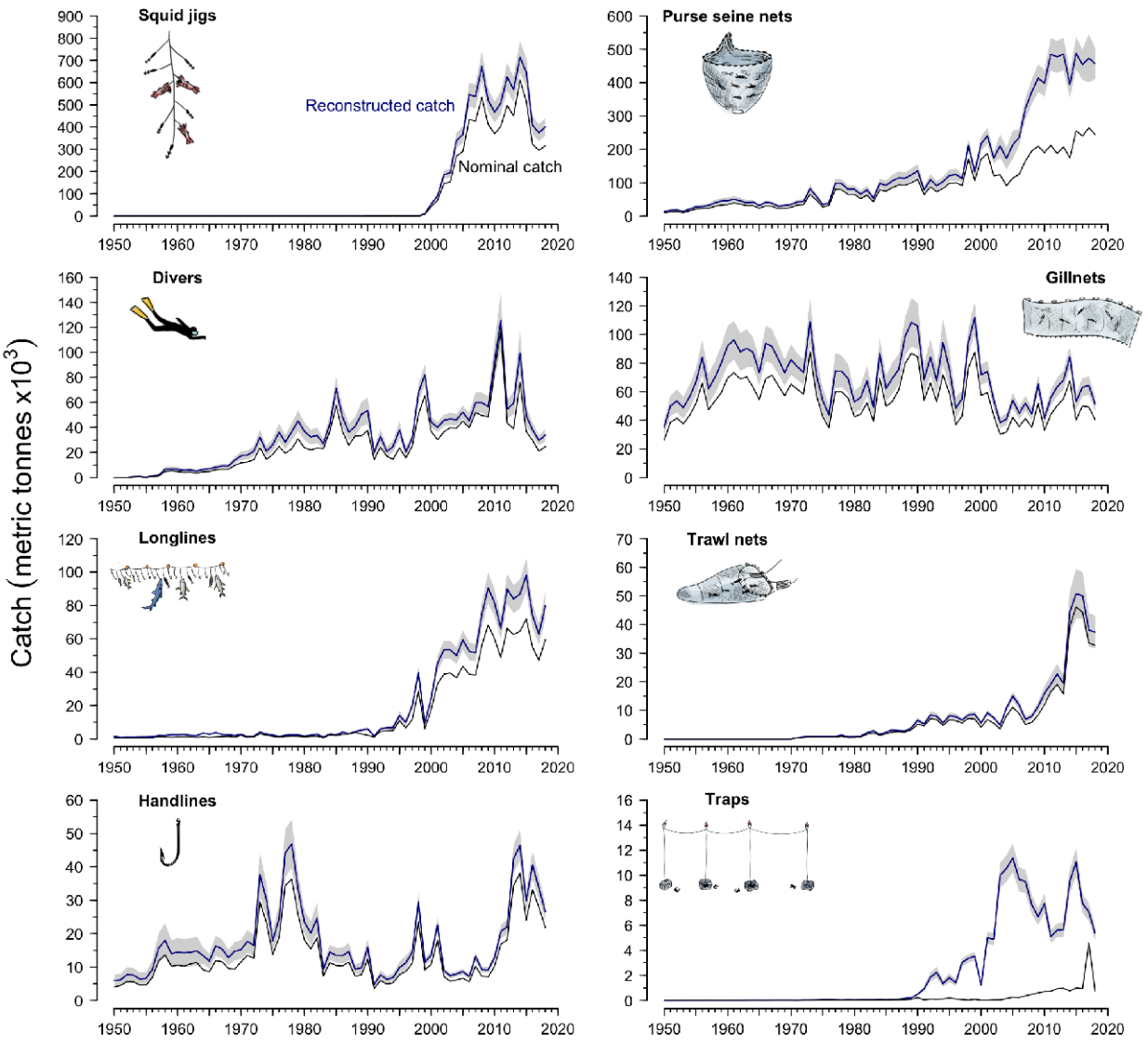

Figure S2: Changes in nominal and reconstructed small-scale catch by the Peruvian small-scale fleet between 1950-2018. Data is presented segregated by fishing method. Polygons denote confidence intervals for reconstructed data.

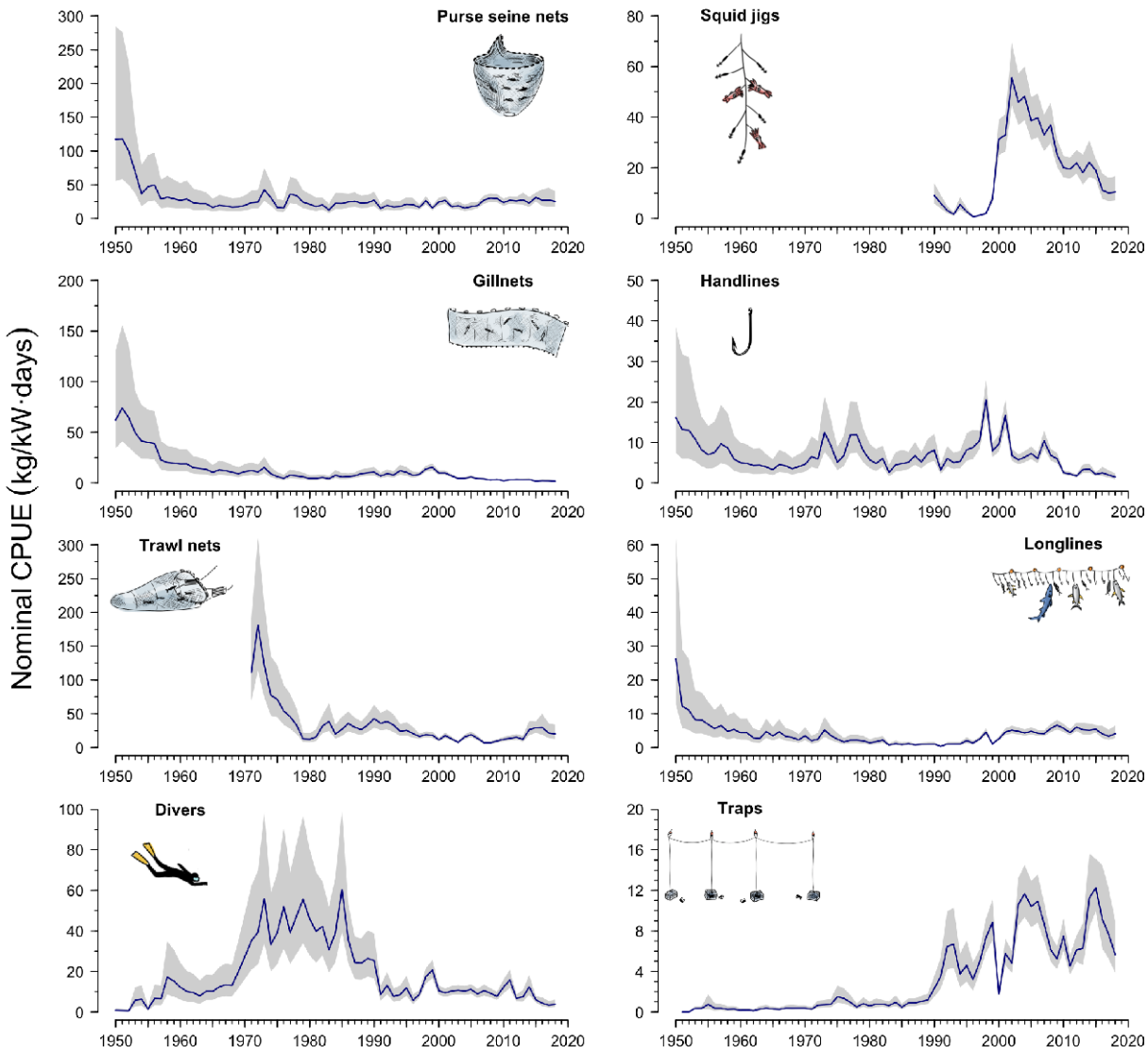

Figure S3: Nominal catches per unit of effort (CPUE) of the Peruvian small-scale fleet between 1950-2018. Data is presented segregated by fishing method. Polygons denote confidence intervals for reconstructed data.