Supplementary Material for:

Decreasing mercury levels in consumer fish over the three decades of increasing mercury emissions in China

Hua Zhang,[†,‡,*] Wen-Xiong Wang[§], Che-Jen Lin, [†,#] Xin-Bin Feng[†], Jianbo Shi,[⁄⁄,※] Gui-Bin Jiang,[⁄⁄] and Thorjørn Larssen[‡]

[†] State Key Laboratory of Environmental Geochemistry, Institute of Geochemistry, Chinese Academy of Sciences, Guiyang, 550081, China.

[‡] Norwegian Institute for Water Research, Gaustadalleen 21, 0349 Oslo, Norway.

[§] School of Energy and Environment and State Key Laboratory of Marine Pollution, City University of Hong Kong, Kowloon, Hong Kong, China

[#] Center for Advances in Water and Air Quality, Lamar University, Beaumont, TX, USA

[⁄⁄] State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, 100085, China.

[※] State Environmental Protection Key Laboratory of Source Apportionment and Control of Aquatic Pollution, School of Environmental Studies, China University of Geosciences, Wuhan 430074, China

Corresponding Author

*zhanghua@mail.gyig.ac.cn (H.Z.)

This PDF file includes:
Figs. S1 to S11
Tables S1 to S5

A list of the content in this Supplementary Material follows:

Figure S1 Temporal trend and spatial distribution of atmospheric mercury emissions in China.

Figures S2-S10. Concentrations of mercury in fish samples in different basins in China.

Figure S11. Historical trends of production, trophic diversity, and body size of fish and their relationships with total mercury in fish in China.

Table S1. A summary of the temporal variation in total mercury levels in the muscle tissues of fish samples (mg.kg-1; ww) in China during 1980-2014.

Table S2. Total Hg concentrations in the muscle tissues of fish samples (mg kg-1; ww) from 34 different administrative regions in China.

Table S3. Concentrations of mercury in the muscle tissue of fish samples collected from the coastal waters, the seven basins of China, and the remaining mainland area (mainland area except for the seven basins), as well as fish types, feeding habits, number of species/samples, sampling years, and analysis methods.

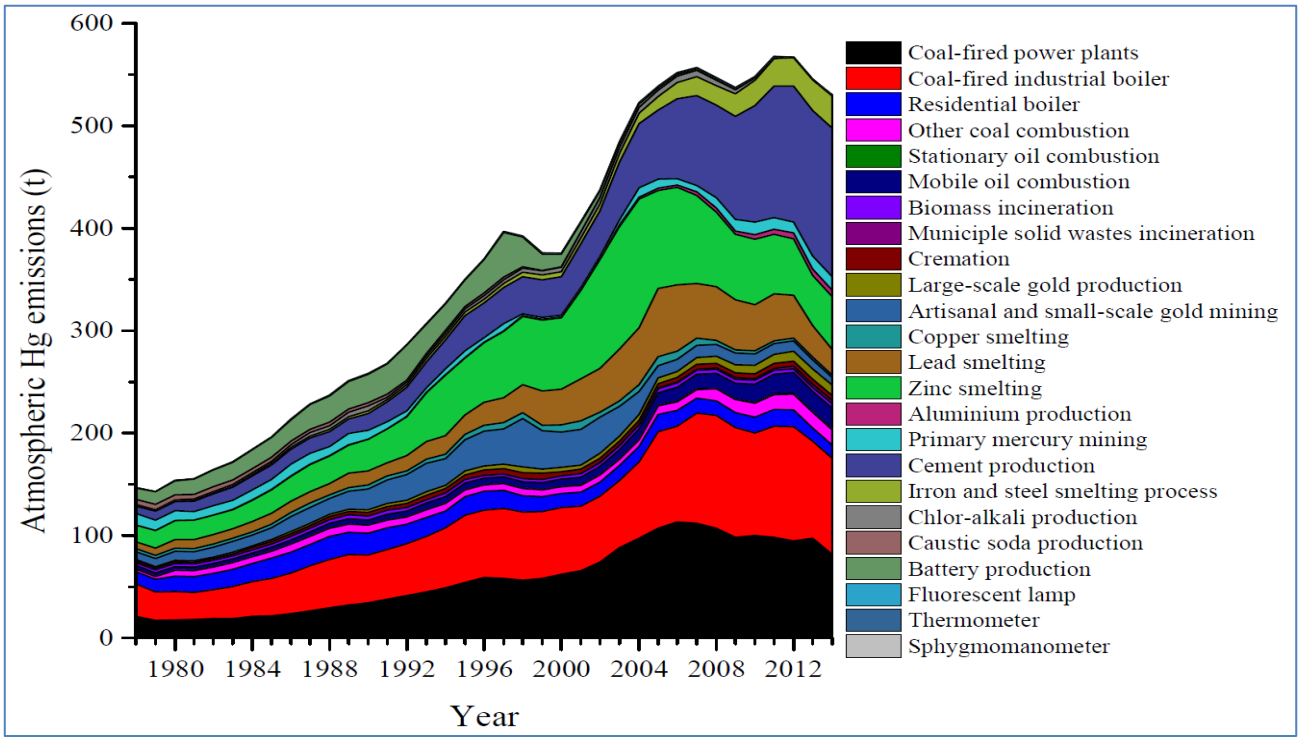
Table S4. A list of fish species' names in the Chinese aquatic ecosystems.

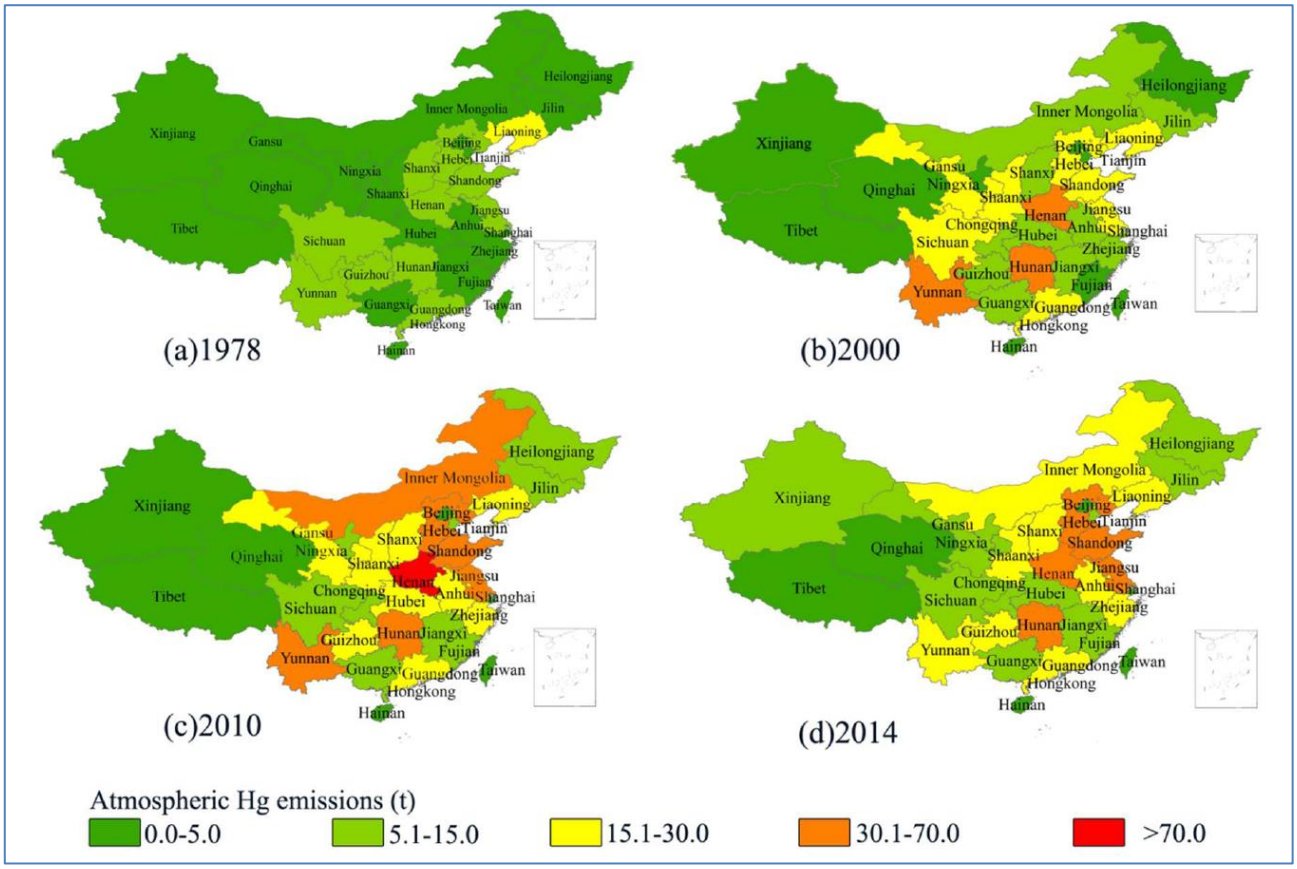
Table S5. Lifespan of fish in China from the samples reported from the literature.

Table S6. Concentrations of mercury in Chinese seawater and freshwater.

Table S7. Concentrations of mercury in Chinese sediments.

Figure S1 Temporal trend and spatial distribution of atmospheric mercury emissions in China [***Upper figure****: the temporal variations of Hg emission trend by sector in China during;* ***lower figure****:the spatial distribution of atmospheric Hg emissions in China;* cited from Wu, Q., *et al.*, 2016. ***Env Sci & Technol*** 2016, 50, 13428-13435].





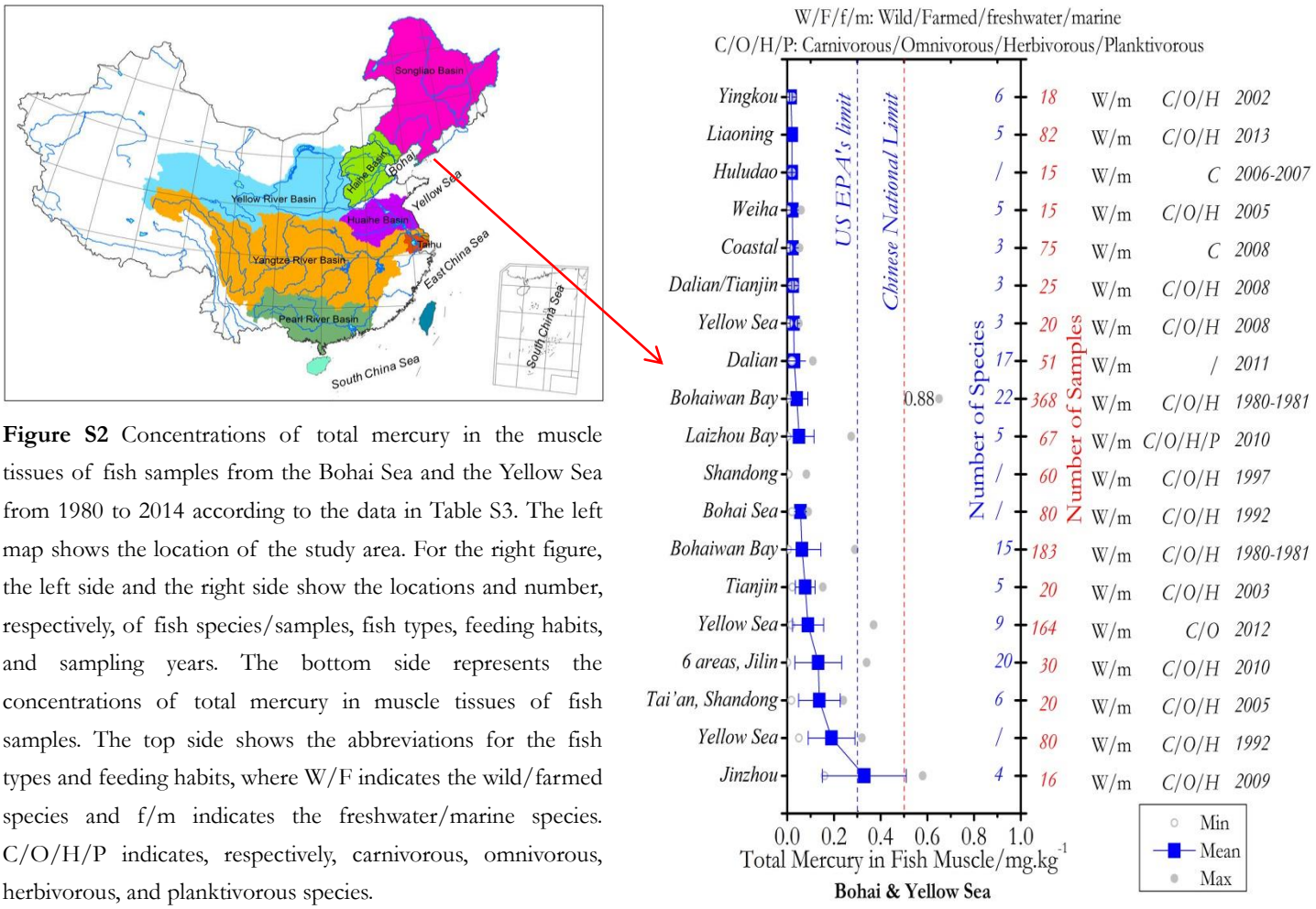


Figure S2 Concentrations of total mercury in the muscle tissues of fish samples from the Bohai Sea and the Yellow Sea from 1980 to 2014 according to the data in Table S3. The left map shows the location of the study area. For the right figure, the left side and the right side show the locations and number, respectively, of fish species/samples, fish types, feeding habits, and sampling years. The bottom side represents the concentrations of total mercury in muscle tissues of fish samples. The top side shows the abbreviations for the fish types and feeding habits, where W/F indicates the wild/farmed species and f/m indicates the freshwater/marine species. C/O/H/P indicates, respectively, carnivorous, omnivorous, herbivorous, and planktivorous species.

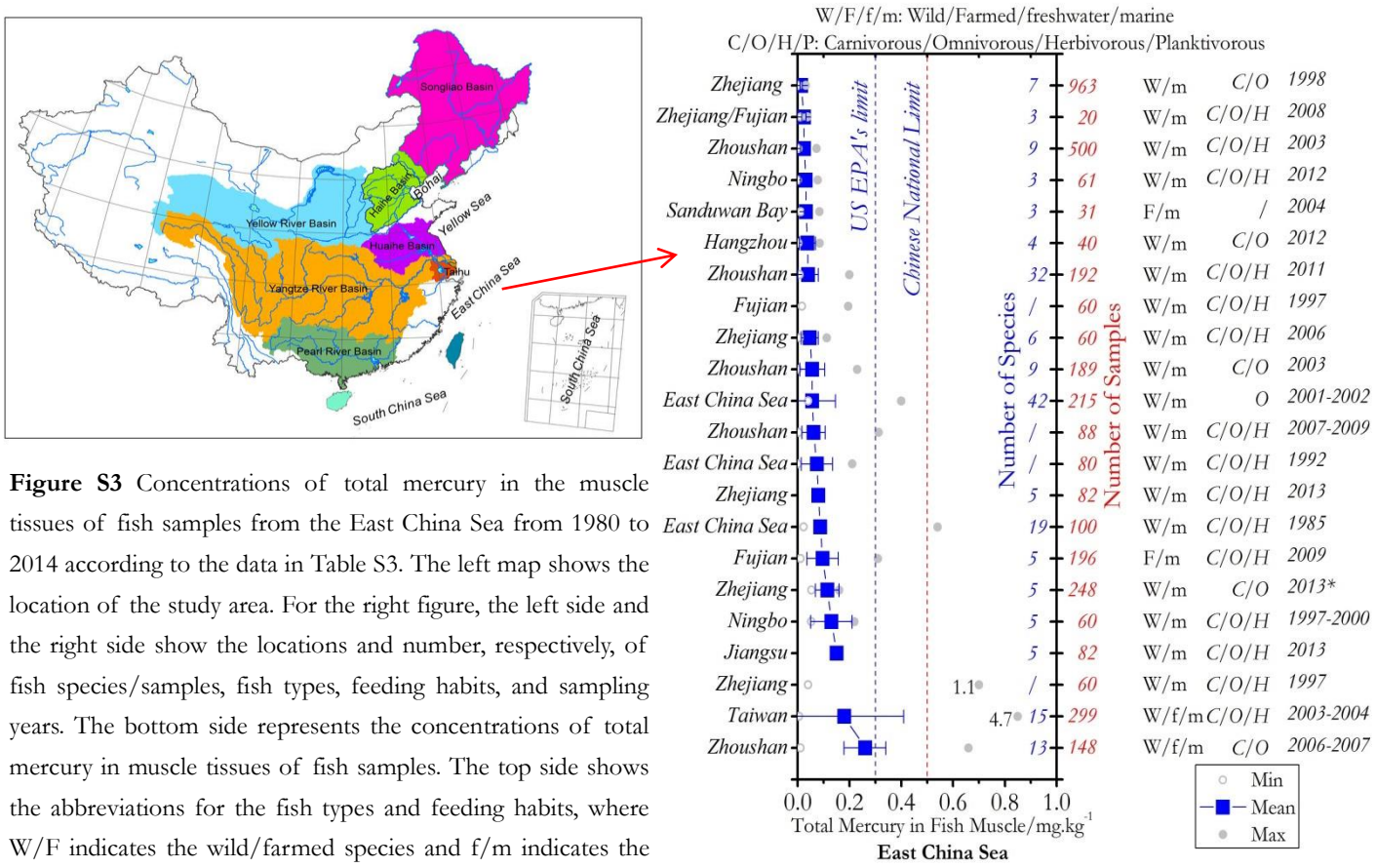


Figure S3 Concentrations of total mercury in the muscle tissues of fish samples from the East China Sea from 1980 to 2014 according to the data in Table S3. The left map shows the location of the study area. For the right figure, the left side and the right side show the locations and number, respectively, of fish species/samples, fish types, feeding habits, and sampling years. The bottom side represents the concentrations of total mercury in muscle tissues of fish samples. The top side shows the abbreviations for the fish types and feeding habits, where W/F indicates the wild/farmed species and f/m indicates the freshwater/marine species. C/O/H/P indicates, respectively, carnivorous, omnivorous, herbivorous, and planktivorous species.

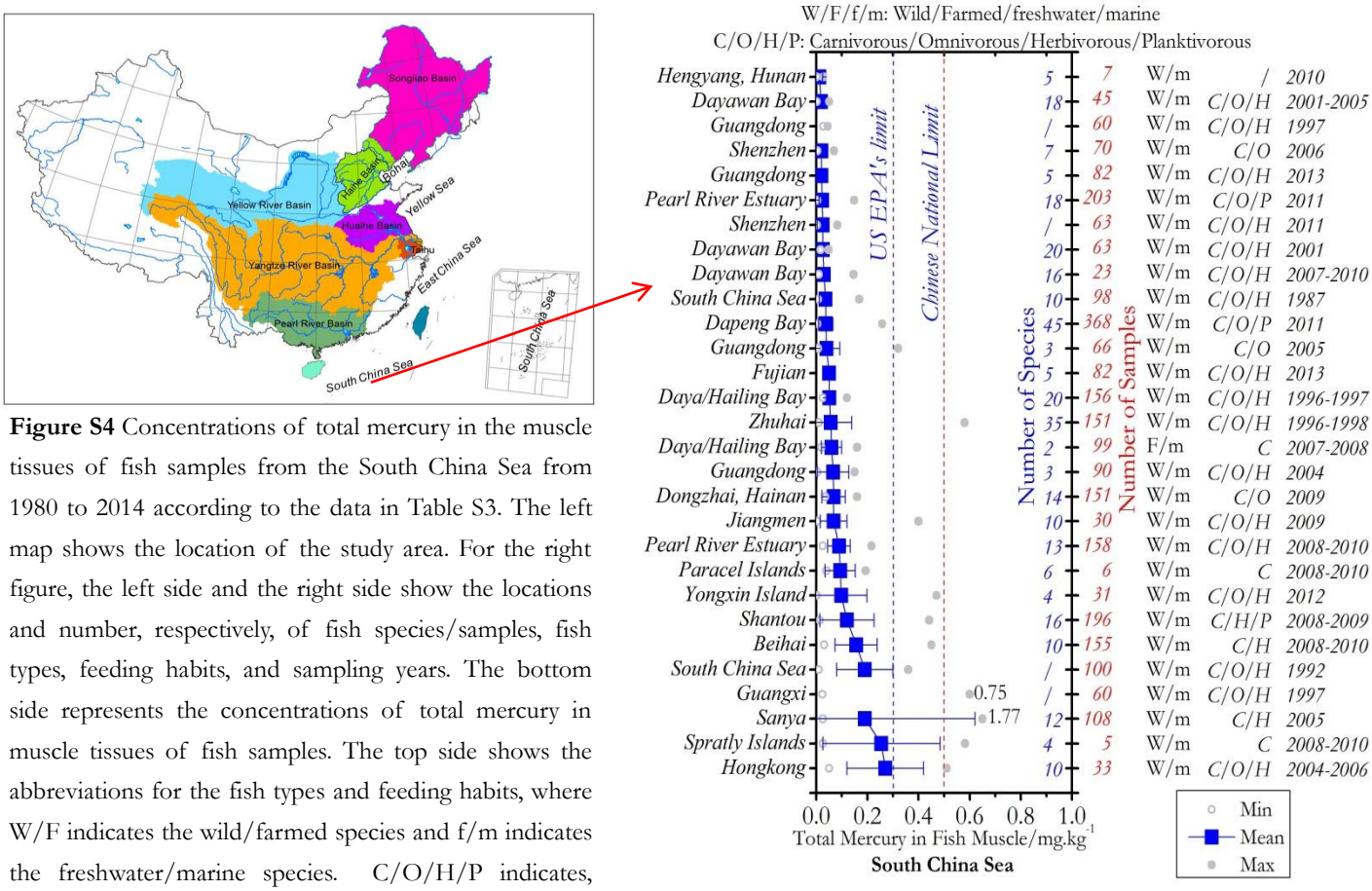
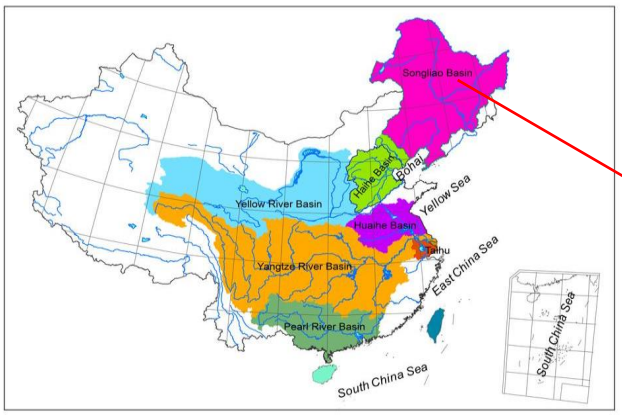


Figure S4 Concentrations of total mercury in the muscle tissues of fish samples from the South China Sea from 1980 to 2014 according to the data in Table S3. The left map shows the location of the study area. For the right figure, the left side and the right side show the locations and number, respectively, of fish species/samples, fish types, feeding habits, and sampling years. The bottom side represents the concentrations of total mercury in muscle tissues of fish samples. The top side shows the abbreviations for the fish types and feeding habits, where W/F indicates the wild/farmed species and f/m indicates the freshwater/marine species. C/O/H/P indicates, respectively, carnivorous, omnivorous, herbivorous, and planktivorous species.



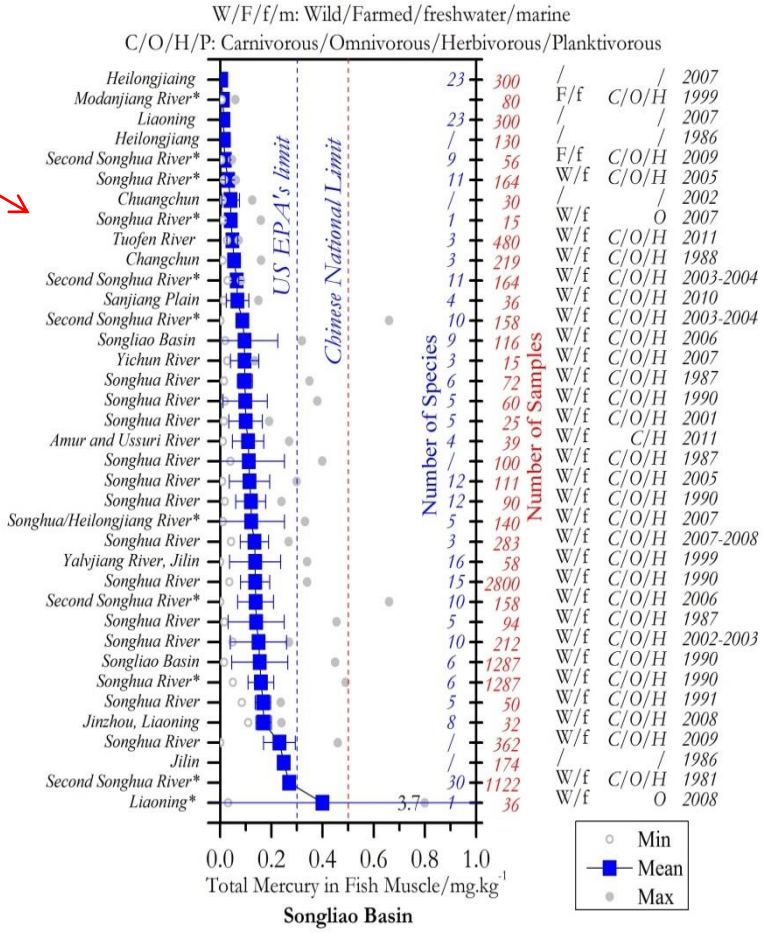


Figure S5 Concentrations of total mercury in the muscle tissues of fish samples from the Songliao Basin from 1980 to 2014 according to the data in Table S3. The left map shows the location of the study area. For the right figure, the left side and the right side show the locations and number, respectively, of fish species/samples, fish types, feeding habits, and sampling years. The bottom side represents the concentrations of total mercury in muscle tissues of fish samples. The top side shows the abbreviations for the fish types and feeding habits, where W/F indicates the wild/farmed species and f/m indicates the freshwater/marine species. C/O/H/P indicates, respectively, carnivorous, omnivorous, herbivorous, and planktivorous species.

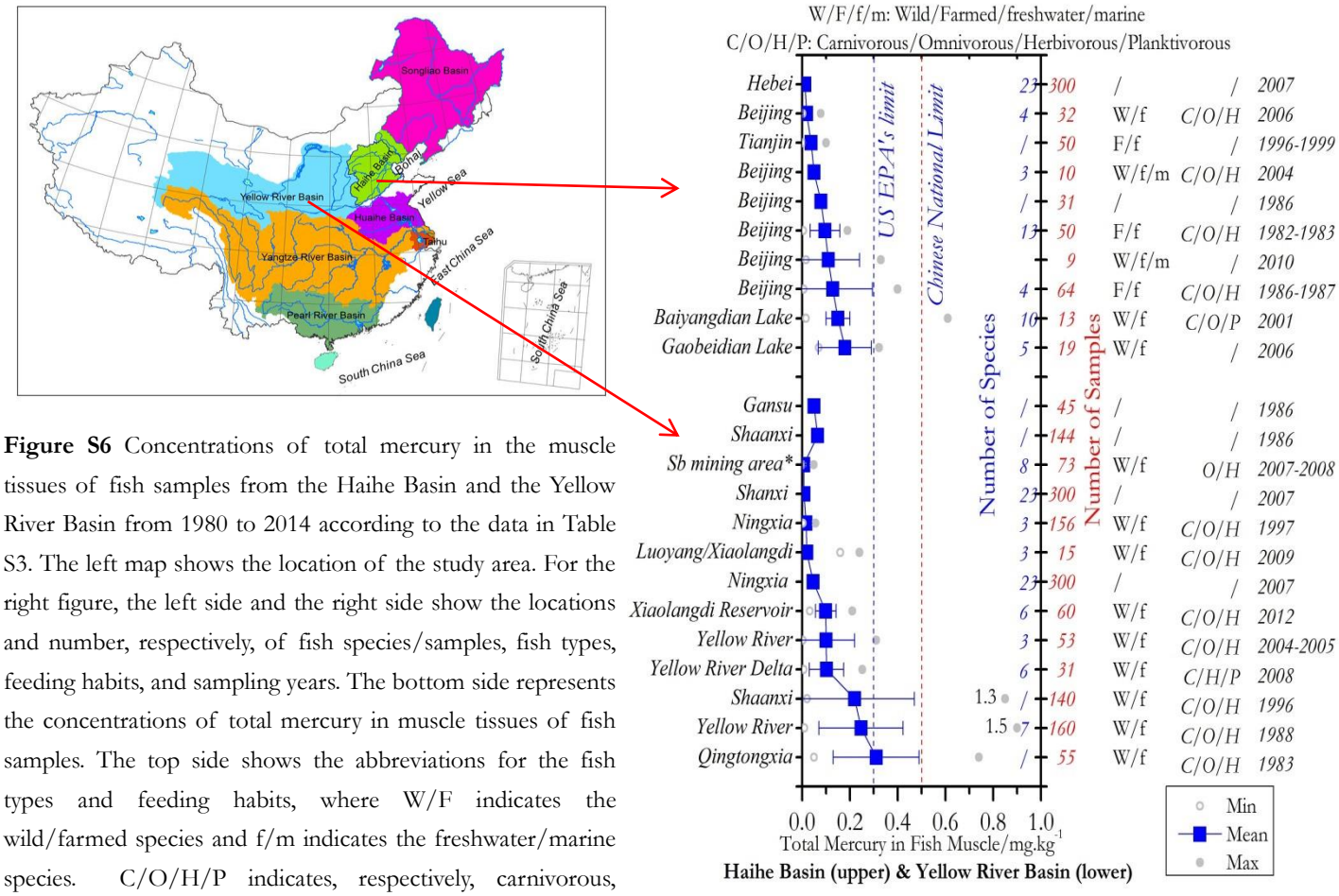


Figure S6 Concentrations of total mercury in the muscle tissues of fish samples from the Haihe Basin and the Yellow River Basin from 1980 to 2014 according to the data in Table S3. The left map shows the location of the study area. For the right figure, the left side and the right side show the locations and number, respectively, of fish species/samples, fish types, feeding habits, and sampling years. The bottom side represents the concentrations of total mercury in muscle tissues of fish samples. The top side shows the abbreviations for the fish types and feeding habits, where W/F indicates the wild/farmed species and f/m indicates the freshwater/marine species. C/O/H/P indicates, respectively, carnivorous, omnivorous, herbivorous, and planktivorous species.

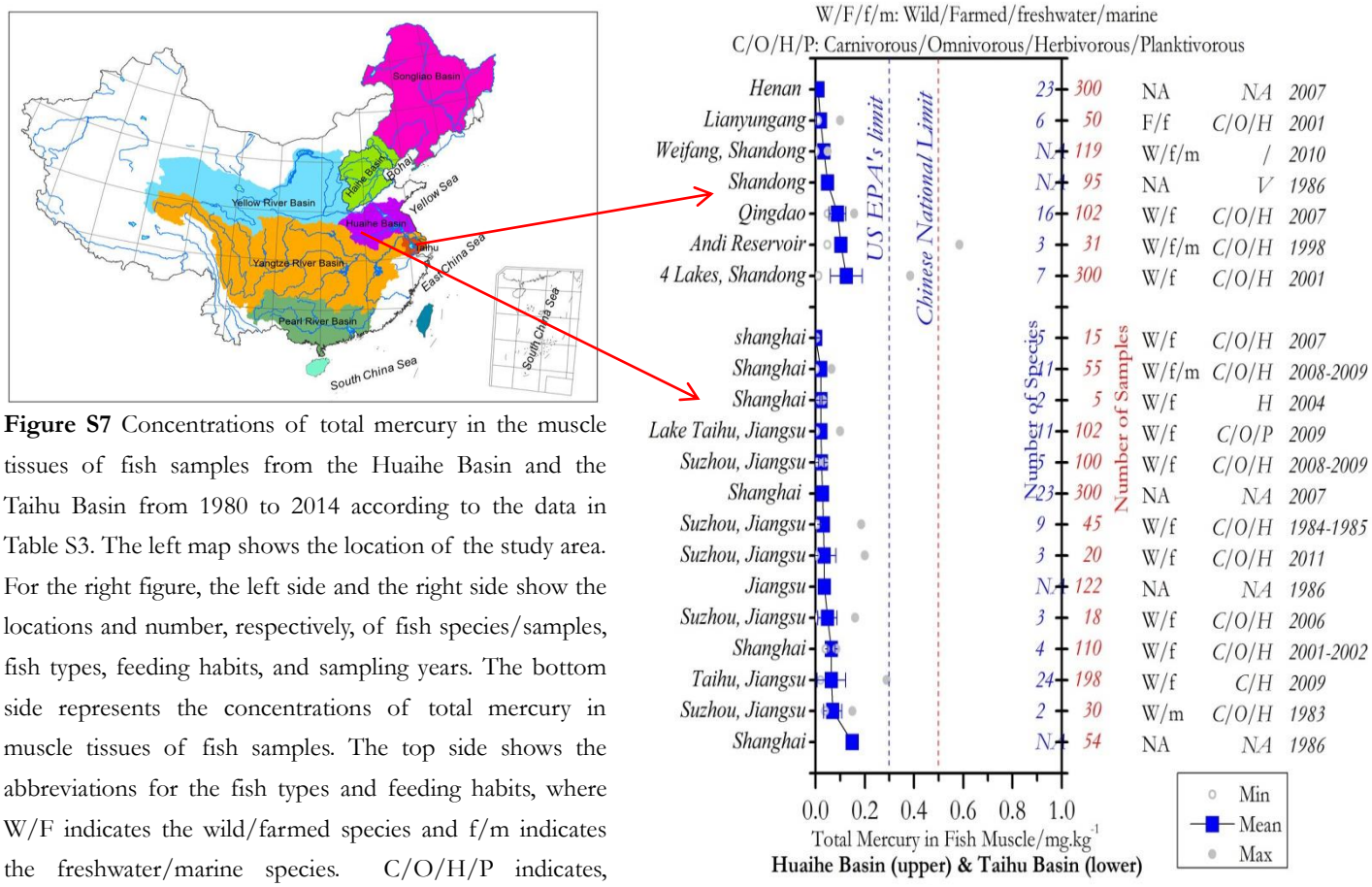


Figure S7 Concentrations of total mercury in the muscle tissues of fish samples from the Huaihe Basin and the Taihu Basin from 1980 to 2014 according to the data in Table S3. The left map shows the location of the study area. For the right figure, the left side and the right side show the locations and number, respectively, of fish species/samples, fish types, feeding habits, and sampling years. The bottom side represents the concentrations of total mercury in muscle tissues of fish samples. The top side shows the abbreviations for the fish types and feeding habits, where W/F indicates the wild/farmed species and f/m indicates the freshwater/marine species. C/O/H/P indicates, respectively, carnivorous, omnivorous, herbivorous, and planktivorous species.

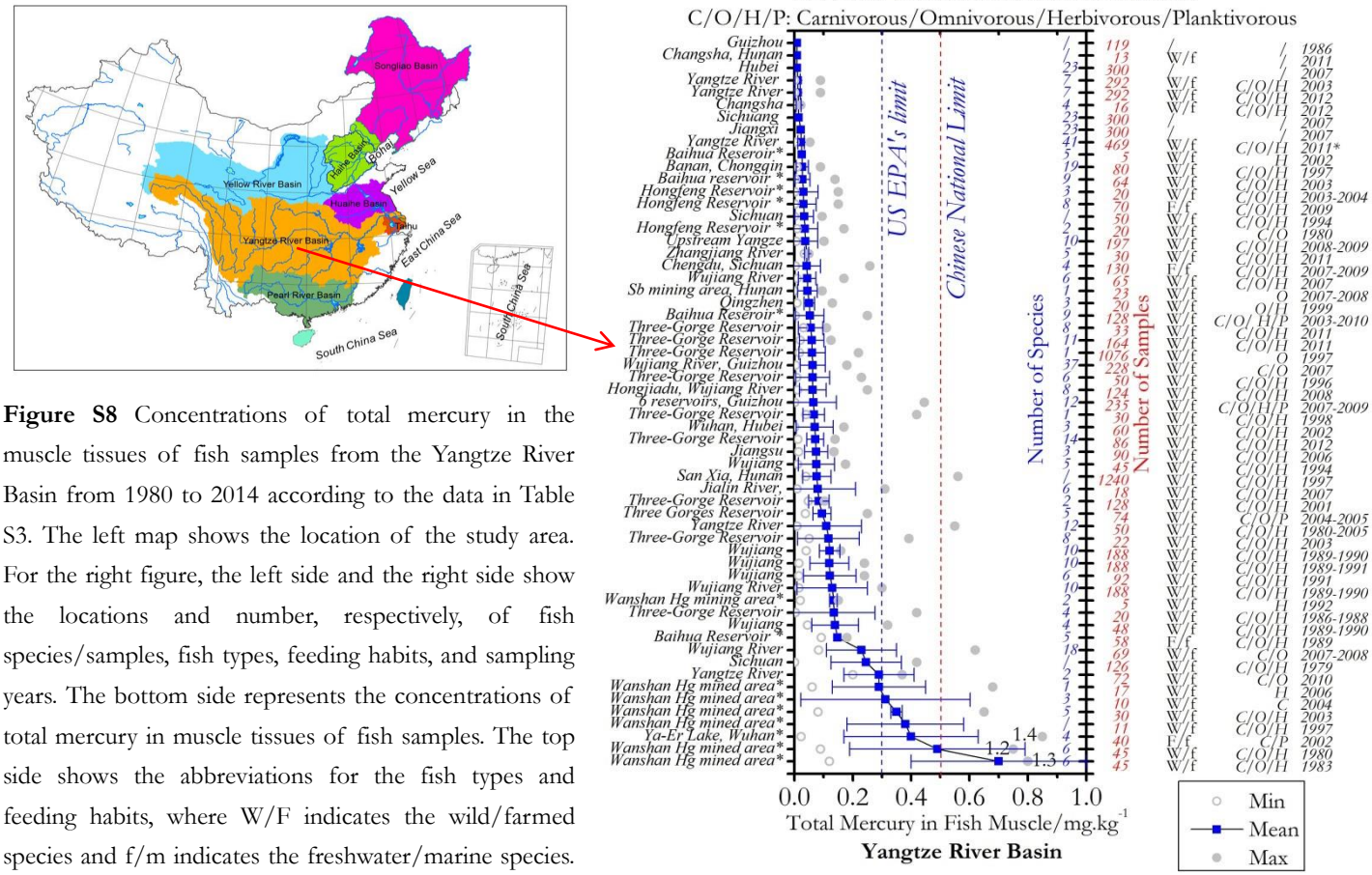
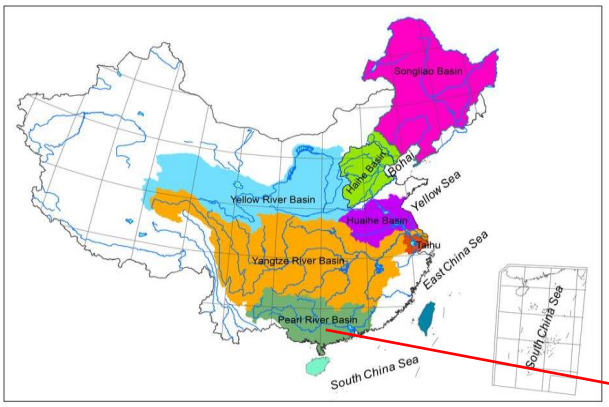


Figure S8 Concentrations of total mercury in the muscle tissues of fish samples from the Yangtze River Basin from 1980 to 2014 according to the data in Table S3. The left map shows the location of the study area. For the right figure, the left side and the right side show the locations and number, respectively, of fish species/samples, fish types, feeding habits, and sampling years. The bottom side represents the concentrations of total mercury in muscle tissues of fish samples. The top side shows the abbreviations for the fish types and feeding habits, where W/F indicates the wild/farmed species and f/m indicates the freshwater/marine species. C/O/H/P indicates, respectively, carnivorous, omnivorous, herbivorous, and planktivorous species.



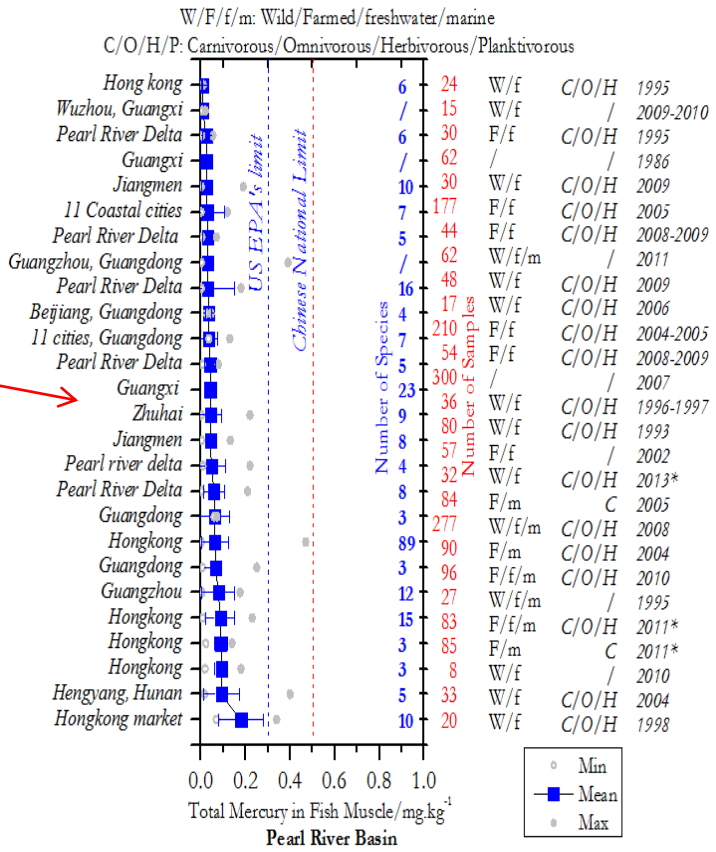
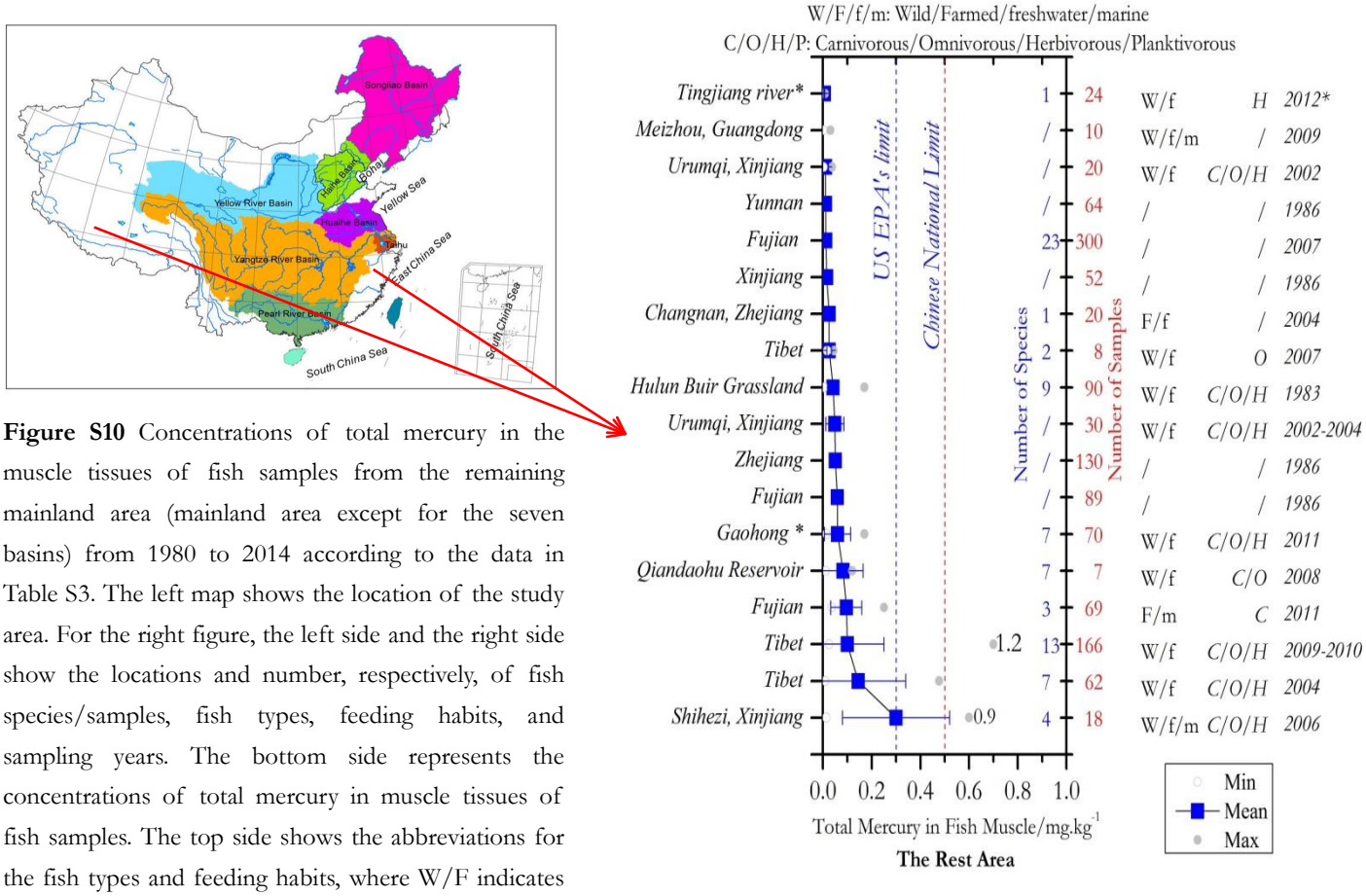


Figure S9 Concentrations of total mercury in the muscle tissues of fish samples from the Pearl River Basin from 1980 to 2014 according to the data in Table S3. The left map shows the location of the study area. For the right figure, the left side and the right side show the locations and number, respectively, of fish species/samples, fish types, feeding habits, and sampling years. The bottom side represents the concentrations of total mercury in muscle tissues of fish samples. The top side shows the abbreviations for the fish types and feeding habits, where W/F indicates the wild/farmed species and f/m indicates the freshwater/marine species. C/O/H/P indicates, respectively, carnivorous, omnivorous, herbivorous, and planktivorous species.



1	24	W/f	H 2012*
/	10	W/f/m	/ 2009
/	20	W/f	C/O/H 2002
/	64	/	/ 1986
23	300	/	/ 2007
/	52	/	/ 1986
1	20	F/f	/ 2004
2	8	W/f	O 2007
9	90	W/f	C/O/H 1983
/	30	W/f	C/O/H 2002-2004
/	130	/	/ 1986
/	89	/	/ 1986
7	70	W/f	C/O/H 2011
7	7	W/f	C/O 2008
3	69	F/m	C 2011
13	166	W/f	C/O/H 2009-2010
7	62	W/f	C/O/H 2004
4	18	W/f/m	C/O/H 2006

Figure S10 Concentrations of total mercury in the muscle tissues of fish samples from the remaining mainland area (mainland area except for the seven basins) from 1980 to 2014 according to the data in Table S3. The left map shows the location of the study area. For the right figure, the left side and the right side show the locations and number, respectively, of fish species/samples, fish types, feeding habits, and sampling years. The bottom side represents the concentrations of total mercury in muscle tissues of fish samples. The top side shows the abbreviations for the fish types and feeding habits, where W/F indicates the wild/farmed species and f/m indicates the freshwater/marine species. C/O/H/P indicates, respectively, carnivorous, omnivorous, herbivorous, and planktivorous species.

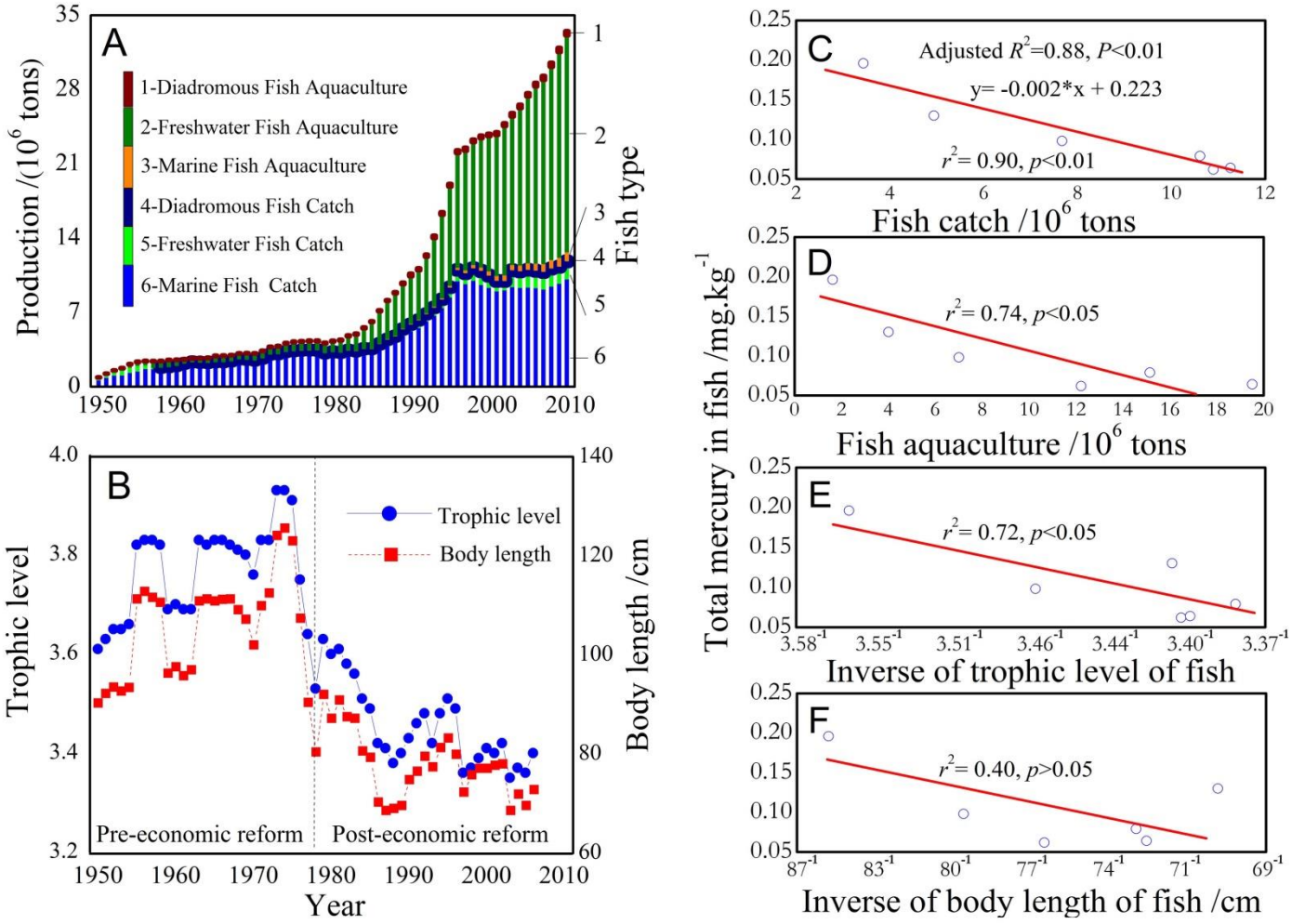


Figure S11. Historical trends of production, trophic diversity, and body size of fish and their relationships with total mercury in fish in China. (A) Aquaculture and catch data of marine fish, freshwater fish, and diadromous fish developed by the Food and agriculture organization of the United Nations (FAO) (http://www.fao.org/fishery). (B) The change in fish trophic level indices (the trophic level of primary producers set as 1) and mean maximum body length data developed by the Sea Around Us Project (http://www.seaaroundus.org). (C) Correlation between fish Hg level and fish catch. (D) Correlation between fish Hg level and fish aquaculture. (E) Correlation between fish Hg level and inverse of fish trophic level. (F) Correlation between fish Hg level and inverse of fish body length.

Table S1 A summary of the temporal variation in total mercury levels in the muscle tissues of fish samples (mg.kg^{-1}; ww) in China during 1980-2014 based on data in Table S3.

Years	Weighted Mean	Min Value	Max Value	Sample Size
2011-2014	0.054	0.001	0.60	4,198
2006-2010	0.064	0.001	3.70	10,710
2001-2005	0.079	0.001	1.36	4,818
1996-2000	0.062	0.001	4.69	4,408
1991-1995	0.098	0.001	0.36	795
1986-1990	0.130	0.004	1.45	8,332
1980-1985	0.196	0.006	1.30	2,153

Table S2 Total Hg concentrations in the muscle tissues of fish samples (mg kg^{-1}; ww) from 34 different administrative regions in China. W-Mean is the weighted mean; Detailed data and references are shown in Table S3.

No.	Regions	Fish Hg/ mg kg^{-1} 2001-2014	Fish Hg/ mg kg^{-1} 1980-2014	Fish Consumption $kg.yr^{-1}$ per capita
	Provinces			
1	Anhui*	0.023	0.023	5.2
2	Fujian	0.049	0.032	8.3
3	Gansu*	0.050	0.005	0.3
4	Guangdong	0.049	0.056	12.2
5	Guizhou	0.081	0.116	0.3
6	Hainan	0.117	0.117	13.5
7	Hebei	0.017	0.047	2.2
8	Heilongjiang	0.108	0.131	3.8
9	Henan	0.025	0.025	1.4
10	Hubei	0.058	0.086	7.9
11	Hunan	0.019	0.071	5.6
12	Jiangsu	0.059	0.043	9.2
13	Jiangxi	0.024	0.024	4.7
14	Jilin	0.077	0.181	3.5
15	Liaoning	0.060	0.058	3.5
16	Qinghai	0.100	0.100	0.3
17	Shaaxi*	0.141	0.141	0.4
18	Shandong	0.097	0.091	3.4
19	Shanxi	0.008	0.008	0.7
20	Sichuan	0.064	0.072	2.5
21	Taiwan	0.140	0.140	18.3
22	Yunnan*	0.011	0.011	1.5
23	Zhejiang	0.071	0.045	9.7

No.	Regions	Fish Hg/ mg kg^{-1} 2001-2014	Fish Hg/ mg kg^{-1} 1980-2014	Fish Consumption $kg.yr^{-1}$ per capita
	Municipalities			
24	Beijing	0.079	0.097	4.0
25	Conggqin*	0.027	0.027	3.3
26	Shanghai	0.034	0.046	11.3
27	Tianjin	0.048	0.043	7.8
	Autonomous regions			
28	Guangxi	0.078	0.072	3.3
29	Inner Mongolia*	0.042	0.042	1.8
30	Tibet	0.109	0.109	0
31	Ningxia	0.046	0.108	0.3
32	Xinjiang	0.104	0.110	0.4
	Special administrative regions			
33	Hong Kong	0.069	0.064	46
34	Macao[a]	0.052	0.052	18.3
	Coastal Seas			
	Bohai Sea	0.060	0.053	/
	Yellow Sea	0.082	0.115	/
	East China Sea	0.063	0.068	/
	South China Sea	0.072	0.072	/

** Data from this region were reported from 1980 to 2000 without available data since 2001. [a] The Pearl River Estuary fish data are applied for Macao. NA indicates data were not available.*

Table S3 Concentrations of the total mercury in the muscle tissue of fish samples (mg.kg^{-1}; ww) collected from the coastal waters (Bohai and Yellow Sea, East China Sea, and South China Sea), the seven basins of China (Yangtze River Basin, Yellow River Basin, Songliao Basin, Haihe Basin, Huaihe Basin, and Pearl River Basin), and the remaining mainland area (mainland area except for the seven basins) as well as fish types (W/F/f/m: Wild/Farmed/freshwater/marine), feeding habits (C/O/H/P: Carnivorous/Omnivorous/Herbivorous/Planktivorous), number of fish species/samples, sampling years, and analysis methods (AFS: Atomic Fluorescence Spectrometry; CVAFS: Cold Vapor Atomic Fluorescence Spectrometry; HGAFS: Hydride Generation Atomic Fluorescence Spectrometer; AAS: Atomic Absorption Spectrometry/Spectrophotometry; CVAAS: Cold Vapor Atomic Absorption Spectrometry/Spectrophotometry; DC: Dithizone Colorimetry; ICP-MS: Inductively Coupled Plasma Mass Spectrometry; MC: Meteorological Chromatography). NA indicates data were not available. The "*" in the "Location" row indicates heavily contaminated sites; in the "Total mercury" row, "*" indicates that values were transformed from methylmercury with the assumption that 80% of total mercury was methylmercury; and in the "Sampling year" row, * indicates the "publication years" for which sampling years were unavailable. The whole dataset covers >600 fish species, with >230 species for freshwater fish and >370 species for marine fish (only within the English literature; detailed fish species names are listed in Table S4).

Locations	Total mercury /mg.kg^{-1}				Fish	Feeding	Species	Samples	Sampling	Analysis	Data
	Mean	SD	Min	Max	types	habits	No.	No.	year	methods	sources
Bohai Sea											
Laizhou Bay (Bohai)	0.051	0.064	0.002	0.274	W/m	C/O/H/P	5	67	2010	AFS	[1]
Dalian/Tianjin (Bohai)	0.024	0.006	0.020	0.032	W/m	C/O/H	3	25	2008	AFS	[2]
Tianjin (Bohai)	0.077	0.042	0.022	0.152	W/m	C/O/H	5	20	2003	AAS	[3]
Yingkou, Liaoning	0.015	0.006	0.008	0.022	W/m	C/O/H	6	18	2002	AFS	[4]
Jinzhou, Liaoning	0.330	0.180	0.160	0.580	W/m	C/O/H	4	16	2009	CVAAS	[5]
Dalian, Liaoning	0.030	0.025	0.020	0.110	W/m	NA	17	51	2011	AFS	[6]
Huludao city, Liaoning	0.020	0.001	0.018	0.020	W/m	C	NA	15	2006-2007	CVAFS	[7]
6 areas, Jilin	0.133	0.100	0.001	0.340	W/m	C/O/H	20	30	2010	AFS	[8]
Weihai, Shandong	0.022	0.006	0.002	0.059	W/m	C/O/H	5	15	2005	AFS	[9]
Tai'an, Shandong	0.138	0.089	0.018	0.240	W/m	C/O/H	6	20	2005	CVAAS	[10]
Shandong coastal	NA	NA	0.006	0.082	W/m	C/O/H	NA	60	1997	CVAFS	[11]
Bohai Sea	0.057	0.020	0.020	0.090	W/m	C/O/H	NA	80	1992	CVAAS	[12]
Bohaiwan Bay	0.041	0.047	0.002	0.880	W/m	C/O/H	22	368	1980-1981	CVAAS	[13]
Bohaiwan Bay	0.063	0.081	0.004	0.290	W/m	C/O/H	15	183	1980-1981	CVAAS	[13]
Liaoning (Bohai)	0.020	NA	NA	NA	W/m	C/O/H	5	82	2013	CVAFS	[14]
Yellow Sea											
Yellow Sea	0.089	0.067	0.018	0.370	W/m	C/O	9	164	2012	CVAFS	[15]

Locations	Total mercury /mg.kg^{-1}				Fish types	Feeding habits	Species No.	Samples No.	Sampling year	Analysis methods	Data sources
	Mean	SD	Min	Max							
Yellow Sea	0.028	0.016	0.008	0.050	W/m	C/O/H	3	20	2008	AFS	[2]
Yellow Sea	0.190	0.100	0.050	0.320	W/m	C/O/H	NA	80	1992	CVAAS	[12]
East China Sea											
Zhejiang (East China Sea)	0.114	0.045	0.053	0.160	W/m	C/O	5	248	2013*	CVAFS	[16]
East China Sea	0.056	0.090	0.040	0.400	W/m	O	42	215	2001-2002	CVAFS	[17]
East China Sea	0.074	0.060	0.001	0.210	W/m	C/O/H	NA	80	1992	CVAAS	[12]
East China Sea	0.087	NA	0.023	0.540	W/m	C/O/H	19	100	1985	NA	[18]
Zhejiang (East China Sea)	0.080	NA	NA	NA	W/m	C/O/H	5	82	2013	CVAFS	[14]
Zhejiang (East China Sea)	NA	NA	0.040	1.100	W/m	C/O/H	NA	60	1997	CVAFS	[11]
Hangzhou, Zhejiang	0.037	0.031	0.003	0.085	W/m	C/O	4	40	2012	CVAFS	[19]
Zhejiang	0.047	0.033	0.008	0.112	W/m	C/O/H	6	60	2006	AFS	[20]
Ningbo, Zhejiang	0.130	0.080	0.052	0.218	W/m	C/O/H	5	60	1997-2000	CVAFS	[21]
Ningbo, Zhejiang	0.031	0.021	0.001	0.077	W/m	C/O/H	3	61	2012	CVAFS	[22]
Zhoushan, Zhejiang	0.056	0.048	0.001	0.230	W/m	C/O	9	189	2003	CVAAS	[23]
Zhoushan, Zhejiang	0.040*	0.039	0.007	0.200	W/m	C/O/H	32	192	2011	MC	[24]
Zhoushan, Zhejiang	0.061*	0.045	0.004	0.313	W/m	C/O/H	NA	88	2007-2009	CVAAS	[25]
Zhoushan, Zhejiang	0.025	0.015	0.003	0.072	W/m	C/O/H	9	500	2003	CVAAS	[26]
11 stations along Zhejiang coastline line	0.013	0.004	0.002	0.032	W/m	C/O	7	963	1998	CVAAS	[27]
5 Coastal cities (Zhejiang/Fujian)	0.024	0.008	0.012	0.038	W/m	C/O/H	3	20	2008	AFS	[2]
Fujian	NA	NA	0.016	0.195	W/m	C/O/H	NA	60	1997	CVAFS	[11]
Taiwan	0.070	0.050	0.010	0.198	W/m	C	11	33	2004	AAS	[28]
Taichung, Taiwan	0.103	0.110	0.003	0.600	W/m	C/O	12	240	2011*	AAS	[29]
Suzhou, Jiangsu	0.070	0.037	0.038	0.150	W/m	C/O/H	2	30	1983	CVAAS	[30]
Jiangsu	0.150	NA	NA	NA	W/m	C/O/H	5	82	2013	CVAFS	[14]
South China Sea											
Yongxin Island, Hainan	0.098	0.100	0.002	0.470	W/m	C/O/H	4	31	2012	AAS	[31]

Locations	Total mercury /mg.kg^{-1}				Fish types	Feeding habits	Species No.	Samples No.	Sampling year	Analysis methods	Data sources
	Mean	SD	Min	Max							
Shantou, Guangdong	0.120	0.106	0.014	0.442	W/m	C/H/P	16	196	2008-2009	CVAFS	[32]
Beihai, Guangxi	0.156	0.083	0.031	0.451	W/m	C/H	10	155	2008-2010	CVAFS	[32]
Sanya, Hainan	0.190	0.431	0.026	1.765	W/m	C/H	12	108	2005	CVAFS	[32]
Paracel Islands	0.094	0.059	0.040	0.193	W/m	C	6	6	2008-2010	CVAFS	[32]
Spratly Islands	0.255	0.229	0.026	0.582	W/m	C	4	5	2008-2010	CVAFS	[32]
South China Sea	0.190	0.110	0.010	0.360	W/m	C/O/H	NA	100	1992	CVAFS	[11]
South China Sea	0.036	0.024	0.007	0.168	W/m	C/O/H	10	98	1987	CVAAS	[33]
Pearl River Estuary	0.023	0.012	0.004	0.148	W/m	C/O/P	18	203	2011	CVAFS	[34]
Pearl River Estuary	0.089	0.044	0.025	0.216	W/m	C/O/H	13	158	2008-2010	CVAFS	[32]
Hong Kong	0.270	0.150	0.050	0.510	W/m	C/O/H	10	33	2004	ICP-MS	[35]
Fujian	0.050	NA	NA	NA	W/m	C/O/H	5	82	2013	CVAFS	[14]
Guangxi	NA	NA	0.024	0.750	W/m	C/O/H	NA	60	1997	CVAFS	[11]
Dayawan Bay, Guangdong	0.030	NA	0.010	0.146	W/m	C/O/H	16	23	2007-2010	AFS	[36]
Dayawan Bay, Guangdong	0.019	NA	0.002	0.050	W/m	C/O/H	18	45	2001-2005	CVAFS	[37]
Dayawan Bay, Guangdong	0.026	NA	0.017	0.048	W/m	C/O/H	20	63	2001	CVAAS	[38]
Daya/Hailing Bay, Guangdong	0.051	0.011	0.026	0.120	W/m	C/O/H	20	156	1996-1997	CVAFS	[39]
Guangdong	0.020	NA	NA	NA	W/m	C/O/H	5	82	2013	CVAFS	[14]
Guangdong	NA	NA	0.027	0.045	W/m	C/O/H	NA	60	1997	CVAFS	[11]
Jiangmen, Guangdong	0.068	0.052	0.004	0.400	W/m	C/O/H	10	30	2009	AFS	[40]
Shenzhen, Guangdong	0.025	0.021	0.003	0.082	W/m	C/O/H	NA	63	2011	ICP-MS	[41]
Zhuhai, Guangdong	0.057	0.082	0.010	0.580	W/m	C/O/H	35	151	1996-1998	CVAAS	[42]
Hengyang, Hunan	0.012	0.013	0.001	0.028	W/m	NA	5	7	2010	CVAFS	[43]
11 Guangdong coastal cities	0.066	0.062	0.004	0.150	W/m	C/O/H	3	90	2004	CVAFS	[44]
Shenzhen Coastal Areas, Guangdong	0.020	0.020	0.005	0.070	W/m	C/O	7	70	2006	CVAAS	[45]
Dapeng Bay, Hong Kong	0.037	0.028	0.005	0.258	W/m	C/O/P	45	368	2011	CVAFS	[34]
11 Guangdong Coastal cities	0.040	0.052	0.008	0.320	W/m	C/O	3	66	2005	CVAFS	[46]
Dongzhai, Hainan	0.068	0.046	0.035	0.160	W/m	C/O	14	151	2009	CVAFS	[47]

Locations	Total mercury /mg.kg^{-1}				Fish types	Feeding habits	Species No.	Samples No.	Sampling year	Analysis methods	Data sources
	Mean	SD	Min	Max							
Yangtze River Basin											
Hongfeng Reservoir*, Guizhou	0.032	0.050	0.003	0.150	W/f	C/O/H	3	20	2003-2004	CVAFS	[48]
Hongfeng Reservoir*, Guizhou	NA	NA	0.003	0.006	W/f	O	4	25	2003	CVAFS	[49]
Hongfeng Reservoir *, Guizhou	0.036	0.044	0.010	0.170	W/f	C/O	2	20	1980	NA	[50]
Baihua Reservoir*, Guizhou	0.053	0.049	0.004	0.250	W/f	C/O/ H/P	9	128	2003	AAS	[51]
Baihua reservoir *, Guihzou	0.028	0.025	0.004	0.140	W/f	C/O/H	9	64	2003	CVAFS	[52]
Baihua Reseroir*, Guizhou	0.026	NA	NA	NA	W/f	H	5	5	2002	CVAFS	[53]
Wanshan Hg mining area*, Guizhou	0.290	0.160	0.061	0.680	W/f	H	1	17	2006	CVAFS	[54]
Wanshan Hg mined area*, Guizhou	0.312	0.290	NA	NA	W/f	C	3	10	2004	AFS	[55]
Wanshan Hg mined area*, Guizhou	0.350	0.020	0.081	0.650	W/f	C/O/H	5	30	2003	CVAAS	[56]
Wanshan Hg mined area*, Guizhou	0.380	0.200	NA	NA	W/f	C/O/H	NA	11	1997	CVAAS	[57]
Wanshan Hg mining area*, Guizhou	0.134	0.013	0.020	0.150	W/f	H	2	5	1992	AAS	[58]
Wanshan Hg mined area*, Guizhou	0.700	0.300	0.120	1.300	W/f	C/O/H	6	45	1983	CVAAS	[59]
Wanshan Hg mined area*, Guizhou	0.490	0.300	0.090	1.160	W/f	C/O/H	6	45	1980	CVAAS	[60]
Hongjiadu, Wujiang River, Guizhou	0.063	0.046	0.011	0.250	W/f	C/O/H	8	124	2008	CVAFS	[61]
Wujiang River, Guizhou	0.230	0.120	0.083	0.620	W/f	C/O	18	69	2007-2008	AAS	[62]
Wujiang River, Guizhou	0.044	0.030	0.010	0.170	W/f	C/O/H	6	65	2007	CVAFS	[63]
Wujiang River, Guizhou	0.063	0.043	0.005	0.180	W/f	C/O	37	228	2007	AAS	[64]
Wujiang lower reaches, Guizhou	0.076	0.062	0.011	0.176	W/f	C/O/H	5	45	1994	CVAFS	[65]
Wujiang upper reaches, Guizhou	0.122	0.090	0.016	0.240	W/f	C/O/H	6	92	1991	CVAAS	[66]
Wujiang upper reaches, Guizhou	0.120	0.067	0.016	0.240	W/f	C/O/H	10	188	1989-1990	NA	[67]
Wujiang upper reaches, Guizhou	0.121*	0.035	0.041	0.159	W/f	C/O/H	10	188	1989-1990	MC	[68]
Wujiang upper reaches, Guizhou	0.140	0.080	0.045	0.320	W/f	C/O/H	4	48	1989-1990	CVAAS	[69]
Wujiang River, Guizhou	0.130	0.120	0.016	0.300	W/f	C/O/H	10	188	1989-1990	CVAAS	[70]
6 reservoirs, Guizhou	0.066	0.078	0.002	0.445	W/f	C/O/H/P	12	235	2007-2009	CVAFS	[71]
Guizhou	0.009*	NA	NA	NA	NA	NA	NA	119	1986	MC	[72]
Hongfeng Reservoir *, Guizhou	0.032	0.043	0.003	0.150	F/f	C/O/H	8	70	2009	CVAFS	[73]

Locations	Total mercury /mg.kg^{-1}				Fish types	Feeding habits	Species No.	Samples No.	Sampling year	Analysis methods	Data sources
	Mean	SD	Min	Max							
Baihua Reservoir *, Guizhou	0.148	NA	0.092	0.180	F/f	C/O/H	5	58	1989	CVAFS	[74]
Qingzhen, Guizhou	0.051	0.018	0.010	0.130	W/f	O/H	3	20	1999	CVAAS	[75]
Three-Gorge Reservoir, Sichuan	0.072	0.029	0.012	0.140	W/f	C/O/H	14	86	2012	CVAAS	[76]
Three-Gorge Reservoir, Sichuan	0.060	0.042	0.021	0.125	W/f	C/O/H	11	164	2011	CVAAS	[77]
Three-Gorge Reservoir, Sichuan	0.056	0.042	0.031	0.110	W/f	C/O/H	8	33	2011	CVAAS	[78]
Three Gorges Reservoir, Sichuan	0.095	0.031	0.038	0.250	W/f	C/O/P	5	74	2004-2005	AFS	[79]
Three-Gorge Reservoir, Sichuan	0.117	0.106	0.051	0.393	W/f	C/O/H	8	22	2003	CVAAS	[80]
Three-Gorge Reservoir, Sichuan	0.084	0.035	0.048	0.104	W/f	C/O/H	2	128	2001	CVAAS	[81]
Three-Gorge Reservoir, Sichuan	0.067	0.037	0.040	0.420	W/f	C/O/H	1	30	1998	NA	[82]
Three-Gorge Reservoir, Sichuan	0.061	0.045	0.018	0.220	W/f	O	1	1076	1997	CVAFS	[83]
Three-Gorge Reservoir, Sichuan	0.063*	0.058	0.008	0.230	W/f	C/O/H	6	50	1996	CVAAS	[84]
Three-Gorge Reservoir, Sichuan	0.136	0.140	0.004	0.420	W/f	C/O/H	4	20	1986-1988	CVAAS	[85]
Sichuan	0.034	0.032	0.001	0.095	W/f	C/O/H	NA	50	1994	NA	[86]
Upper Reaches of the Yangtze River, Sichuan	0.290	0.120	0.200	0.370	W/f	C/O	2	72	2010	AFS	[87]
Upstream Yangze, Sichuan	0.038	0.042	0.006	0.102	W/f	C/O/H	10	197	2008-2009	CVAFS	[88]
Upstream Yangtze Jiang, Sichuan	0.110	0.120	0.010	0.550	W/f	C/O/H	12	50	1980-2005	AFS	[89]
Jialin River, Sichuan	0.080	0.130	0.010	0.310	W/f	C/O/H	6	18	2007	AFS	[89]
Sichuang	0.015	NA	NA	NA	NA	NA	23	300	2007	AAS	[90]
Chengdu, Sichuan	0.042	0.048	0.004	0.258	F/f	C/O/H	4	130	2007-2009	CVAFS	[91]
Banan, Three Geoges Reservoir, Chongqin	0.027	0.021	0.010	0.090	W/f	C/O/H	19	80	1997	AAS	[92]
San Xia, Hunan	0.077	0.048	0.040	0.560	W/f	C/O/H	NA	1240	1997	CVAAS	[93]
Changsha, Hunan	0.015	0.008	0.008	0.022	W/f	C/O/H	4	16	2012	CVAFS	[94]
Changsha, Hunan	0.009	NA	NA	NA	W/f	NA	NA	13	2011	CVAAS	[95]
Sb mining area*, Hunan	0.045	0.034	0.000	0.095	W/f	O	1	23	2007-2008	HG-AFS	[96]
Wuhan, Hubei	0.070	0.063	0.002	0.170	W/f	C/O/H	3	60	2002	CVAAS	[97]

Locations	Total mercury /mg.kg^{-1}				Fish types	Feeding habits	Species No.	Samples No.	Sampling year	Analysis methods	Data sources
	Mean	SD	Min	Max							
Wuhan (Reservoir*), Hubei	0.650	0.120	0.023	3.190	W/f	C/O/H	2	20	1998	CVAAS	[98]
Hubei	0.010	NA	NA	NA	NA	NA	23	300	2007	AAS	[90]
Ya-Er Lake, Wuhan*, Hubei	0.400	0.230	0.023	1.360	F/f	C/P	4	40	2002	AFS	[99]
Jiangsu Block of Yangtze	0.075	0.040	0.015	0.136	W/f	C/O/H	3	90	2006	CVAAS	[100]
Jiangxi	0.022	NA	NA	NA	NA	NA	23	300	2007	AAS	[90]
Zhangjiang River, Jiangxi	0.042	0.007	0.034	0.050	W/f	C/O/H	5	30	2011	CVAFS	[101]
Yangtze River, cross-provincial	0.012	0.009	0.001	0.090	W/f	C/O/H	7	292	2012	AFS	[102]
Yangtze River (27 cities middle/lower reaches), Hubei/Hunan/Anhui/Jiangsu	0.023	0.011	0.002	0.054	W/f	C/O/H	41	469	2011*	AFS	[103]
Whole Yangtze River Basin, 11 provinces	0.012	0.009	0.001	0.090	W/f	C/O/H	7	292	2003	AFS	[104]
Yellow River Basin											
Xiaolangdi Reservoir, Henan	0.099	0.043	0.032	0.210	W/f	C/O/H	6	60	2012	CVAFS	[105]
Luoyang and Xiaolangdi, Henan	0.020	0.003	0.160	0.240	W/f	C/O/H	3	15	2009	DC	[106]
Yinchuan Pond, Ningxia	0.016	0.023	0.003	0.056	W/f	C/O/H	3	156	1997	CVAAS	[107]
Qingtongxia Reservoir, Ningxia	0.310	0.180	0.050	0.740	W/f	C/O/H	NA	55	1983	NA	[108]
Yellow River in Ningxia	0.247	0.176	0.010	1.453	W/f	C/O/H	7	160	1988	CVAAS	[109]
Ningxia	0.046	NA	NA	NA	NA	NA	23	300	2007	AAS	[90]
Yellow River in Qinghai	0.1	0.12	0.003	0.31	W/f	C/O/H	3	53	2004-2005	AFS	[110]
Yellow River Delta (Shandong)	0.102	0.072	0.006	0.252	W/f	C/H/P	6	31	2008	AFS	[111]
Shaanxi	0.065*	NA	NA	NA	NA	NA	NA	144	1986	MC	[72]
Shaanxi	0.220	0.250	0.021	1.250	W/f	C/O/H	NA	140	1996	CVAAS	[112]
Gansu	0.050*	NA	NA	NA	NA	NA	NA	45	1986	MC	[72]
Sb mining area*, Hunan	0.007	0.004	0.001	0.048	W/f	O/H	8	73	2007-2008	HG-AFS	[113]
Shanxi	0.008	NA	NA	NA	NA	NA	23	300	2007	AAS	[90]
Songliao Basin											

Locations	Total mercury /mg.kg^{-1}				Fish types	Feeding habits	Species No.	Samples No.	Sampling year	Analysis methods	Data sources
	Mean	SD	Min	Max							
Songhua River, Heilongjiang	0.097	0.029	0.016	0.350	W/f	C/O/H	6	72	1987	NA	[114]
Songhua River, Heilongjiang	0.100*	0.065	0.015	0.192	W/f	C/O/H	5	25	2001	MC	[115]
Songhua River, Heilongjiang	0.150	0.110	0.049	0.270	W/f	C/O/H	10	212	2002-2003	CVAFS	[116]
Songhua River, Heilongjiang	0.141	0.110	0.017	0.455	W/f	C/O/H	5	94	1987	CVAAS	[117]
Songhua River, Heilongjiang	0.120*	0.059	0.019	0.240	W/f	C/O/H	12	90	1990	MC	[118]
Songhua River, Heilongjiang	0.112	0.140	0.040	0.400	W/f	C/O/H	NA	100	1987	CVAAS	[119]
Songhua River, Heilongjiang	0.232	0.062	0.001	0.460	W/f	C/O/H	NA	362	2009	ICP-MS	[120]
Songhua River, Heilongjiang	0.134	0.055	0.043	0.268	W/f	C/O/H	3	283	2007-2008	CVAAS	[121]
Songhua River, Heilongjiang	0.098	0.087	0.019	0.380	W/f	C/O/H	5	60	1990	CVAAS	[122]
Songhua River, Heilongjiang	0.168	0.030	0.085	0.237	W/f	C/O/H	5	50	1991	NA	[123]
Songhua River, Heilongjiang	0.137	0.057	0.036	0.340	W/f	C/O/H	15	2800	1990	CVAAS	[124]
Songhua River, Heilongjiang	0.115	0.079	0.008	0.300	W/f	C/O/H	12	111	2005	CVAAS	[125]
Songliao Basin (Heilongjiang)	0.155	0.110	0.016	0.450	W/f	C/O/H	6	1287	1990	CVAAS	[126]
Songliao Basin (Heilongjiang)	0.095	0.130	0.020	0.320	W/f	C/O/H	9	116	2006	AAS	[127]
Amur&Ussuri River, Heilongjiang	0.110	0.061	0.011	0.270	W/f	C/H	4	39	2011	ICP-MS	[128]
Songhua River*, Heilongjiang	0.160	0.050	0.050	0.490	W/f	C/O/H	6	1287	1990	CVAAS	[129]
Tuofen River , Heilongjiang	0.048	0.021	0.027	0.073	W/f	C/O/H	3	480	2011	AFS	[130]
Sanjiang Plain (Heilongjiang)	0.068	0.044	0.015	0.150	W/f	C/O/H	4	36	2010	CVAAS	[131]
Heilongjiang	0.015*	NA	NA	NA	NA	NA	NA	130	1986	MC	[72]
Songhua/Heilongjiang River*	0.122	0.130	0.011	0.332	W/f	C/O/H	5	140	2007	CVAFS	[132]
Songhua River*, Heilongjiang	0.042	0.008	0.011	0.159	W/f	O	1	15	2007	AFS	[133]
Heilongjiaing	0.005	NA	NA	NA	NA	NA	23	300	2007	AAS	[90]
Modanjiang River*, Heilongjiang	0.011	0.021	0.006	0.060	F/f	C/O/H	NA	80	1999	CVAAS	[134]
Yalvjiang River, Jilin	0.137	0.100	0.001	0.340	W/f	C/O/H	16	58	1999	CVAAS	[135]
Yichun River, Changchun, Jilin	0.096*	0.055	0.028	0.136	W/f	C/O/H	3	15	2007	MC	[136]
Changchun city, Jilin	0.055	0.022	0.010	0.160	W/f	C/O/H	3	219	1988	CVAAS	[137]
Second Songhua River*, Jilin	0.087	NA	0.002	0.660	W/f	C/O/H	10	158	2003-2004	AFS	[138]

Locations	Total mercury /mg.kg^{-1}				Fish types	Feeding habits	Species No.	Samples No.	Sampling year	Analysis methods	Data sources
	Mean	SD	Min	Max							
Second Songhua River*, Jilin	0.270	NA	NA	NA	W/f	C/O/H	30	1122	1981	CVAAS	[139]
Second Songhua River*, Jilin	0.139	0.070	0.001	0.660	W/f	C/O/H	10	158	2006	CVAAS	[140]
Second Songhua River*, Jilin	0.065	0.009	0.029	0.082	W/f	C/O/H	11	164	2003-2004	CVAAS	[140]
Songhua River*, Jilin	0.032	0.012	0.015	0.062	W/f	C/O/H	11	164	2005	CVAAS	[141]
Chuangchun, Jilin	0.041	0.035	0.010	0.126	NA	NA	NA	30	2002	CVAAS	[142]
Jilin	0.249*	NA	NA	NA	NA	NA	NA	174	1986	MC	[72]
Chagan lake, Second Songhua River*, Jilin	0.019	0.020	0.005	0.047	F/f	C/O/H	9	56	2009	AAS	[143]
Jinzhou, Liaoning	0.170	0.030	0.110	0.240	W/f	C/O/H	8	32	2008	CVAAS	[144]
Liaoning Coastal Watersheds	0.400	1.100	0.031	3.700	W/f	O	1	36	2008	CVAFS	[145]
Liaoning	0.013	NA	NA	NA	NA	NA	23	300	2007	AAS	[90]
Taihu Lake Basin											
Taihu, Jiangsu	0.022	0.020	0.003	0.100	W/f	C/O/P	11	102	2009	CVAAS	[146]
Taihu, Jiangsu	0.064	0.058	0.021	0.289	W/f	C/H	24	198	2009	AFS	[147]
Suzhou, Jiangsu	0.048	0.039	0.001	0.160	W/f	C/O/H	3	18	2006	AFS	[148]
Suzhou, Jiangsu	0.035	0.048	0.001	0.200	W/f	C/O/H	3	20	2011	CVAFS	[149]
Suzhou, Jiangsu	0.032	0.013	0.006	0.185	W/f	C/O/H	9	45	1984-1985	CVAAS	[150]
Suzhou, Jiangsu	0.024	0.011	0.008	0.035	W/f	C/O/H	5	100	2008-2009	CVAAS	[151]
Jiangsu	0.036*	NA	NA	NA	NA	NA	NA	122	1986	MC	[72]
Lake and ponds, Shanghai	0.064	0.015	0.041	0.085	W/f	C/O/H	4	110	2001-2002	AAS	[152]
Shanghai	0.022	0.005	0.017	0.030	W/f	H	2	5	2004	AAS	[58]
Shanghai	0.021	0.021	0.001	0.065	W/f/m	C/O/H	11	55	2008-2009	AFS	[153]
Shanghai	0.149*	NA	NA	NA	NA	NA	NA	54	1986	MC	[72]
shanghai	0.001	0.002	0.001	0.003	W/f	C/O/H	5	15	2007	CVAFS	[154]
Shanghai	0.028	NA	NA	NA	NA	NA	23	300	2007	AAS	[90]
Huaihe Basin											
4 Lakes, Shandong	0.125	0.064	0.012	0.385	W/f	C/O/H	7	300	2001	CVAAS	[155]

Locations	Total mercury /mg.kg^{-1}				Fish types	Feeding habits	Species No.	Samples No.	Sampling year	Analysis methods	Data sources
	Mean	SD	Min	Max							
Weifang, Shandong	0.034	NA	0.001	0.049	W/f/m	NA	NA	119	2010	AFS	[156]
Qingdao, Shandong	0.089	0.034	0.049	0.157	W/f	C/O/H	16	102	2007	CVAAS	[157]
Andi Reservoir, Shandong	0.103	NA	0.048	0.584	W/f/m	C/O/H	3	31	1998	CVAAS	[158]
Shandong	0.048*	NA	NA	NA	NA	NA	NA	95	1986	MC	[72]
Henan	0.010	NA	NA	NA	NA	NA	23	300	2007	AAS	[90]
Lianyungang, Jiangsu	0.020	0.016	0.010	0.100	F/f	C/O/H	6	50	2001	CVAFS	[159]
Haihe Basin											
Beijing	0.019	0.015	0.002	0.078	W/f	C/O/H	4	32	2006	ICPMS	[160]
Baiyangdian Lake, Heibei	0.150	0.050	0.016	0.610	W/f	C/O/P	10	13	2001	ICPMS	[161]
Hebei	0.011	NA	NA	NA	NA	NA	23	300	2007	AAS	[90]
Beijing	0.079*	NA	NA	NA	NA	NA	NA	31	1986	MC	[72]
Gaobeidian Lake, Beijing	0.179	0.111	0.069	0.322	W/f	NA	5	19	2006	AFS	[162]
Beijing	0.110	0.130	0.016	0.330	W/f/m	NA	NA	9	2010	AAS	[163]
Beijing	0.050	0.012	NA	NA	W/f/m	C/O/H	3	10	2004	AFS	[55]
Beijing	0.096	0.062	0.005	0.190	F/f	C/O/H	13	50	1982-1983	CVAAS	[164]
Beijing	0.128	0.167	0.007	0.400	F/f	C/O/H	4	64	1986-1987	CVAAS	[165]
Tianjin	0.038	0.024	0.001	0.100	F/f	NA	NA	50	1996-1999	NA	[166]
Pearl River Basin											
Jiangmen, Guangdong	0.043	NA	0.002	0.132	W/f	C/O/H	8	80	1993	CVAFS	[37]
Zhuhai, Guangdong	0.043	0.050	0.001	0.220	W/f	C/O/H	9	36	1996-1997	CVAAS	[42]
Beijiang, Guangdong	0.035	0.012	0.025	0.046	W/f	C/O/H	4	17	2006	AFS	[167]
Pearl River Delta (Guangdong)	0.032	0.120	0.002	0.180	W/f	C/O/H	16	48	2009	CVAFS	[168]
Pearl River Delta (Guangdong)	0.059	0.046	0.003	0.210	W/f	C/O/H	8	32	2013*	AAS	[169]
Jiangmen, Guangdong	0.025	0.022	0.002	0.190	W/f	C/O/H	10	30	2009	AFS	[40]
Pearl River Delta, Guangdong	0.041	0.024	0.007	0.078	F/f	C/O/H	5	54	2008-2009	CVAAS	[170]
Pearl River Delta(Guangdong)	0.024	0.016	0.004	0.054	F/f	C/O/H	6	30	1995	CVAAS	[171]
Pearl River Delta (Guangdong)	0.030	0.024	0.005	0.070	F/f	C/O/H	5	44	2008-2009	CVAAS	[172]

Locations	Total mercury /mg.kg^{-1}				Fish types	Feeding habits	Species No.	Samples No.	Sampling year	Analysis methods	Data sources
	Mean	SD	Min	Max							
11 Coastal cities, Guangdong	0.028	0.080	0.001	0.120	F/f	C/O/H	7	177	2005	CVAFS	[46]
11 cities, Guangdong	0.035	0.041	0.035	0.130	F/f	C/O/H	7	210	2004-2005	CVAFS	[44]
Pearl river delta (5 cities in Guangdong)	0.047	0.063	0.010	0.220	F/f	NA	4	57	2002	AAS	[35]
Guangzhou, Guangdong	0.032	NA	0.002	0.390	W/f/m	NA	NA	62	2011	CVAFS	[173]
11 cities, Guangdong	0.064	0.025	0.007	0.250	F/m	C/O/H	3	90	2004	CVAFS	[44]
11 Coastal cities, Guangdong	0.060	0.070	0.059	0.072	F/m	C	3	84	2005	CVAFS	[46]
Guangzhou, Guangdong	0.078	0.073	0.005	0.176	F/f/m	C/O/H	12	96	2010	CVAFS	[174]
Guangxi	0.024*	NA	NA	NA	NA	NA	NA	62	1986	MC	[72]
Guangxi	0.041	NA	NA	NA	NA	NA	23	300	2007	AAS	[90]
Wuzhou, Guangxi	0.008	NA	0.005	0.020	W/f	NA	NA	15	2009-2010	CVAFS	[175]
Hong Kong market	0.180	0.100	0.070	0.340	W/f	C/O/H	10	33	2004	AAS	[35]
Hengyang, Hunan	0.091	0.080	0.016	0.400	W/f	NA	5	8	2010	CVAFS	[43]
Hong Kong	0.006	0.003	0.003	0.011	W/f	C/O/H	6	24	1995	CVAAS	[171]
Hong Kong	0.063	0.060	0.003	0.470	W/f/m	C/O/H	89	277	2008	AAS	[176]
Hong Kong	0.087	0.065	0.006	0.230	W/f/m	NA	15	27	1995	CVAAS	[177]
Around Hong Kong and adjacent mainland China	0.091	0.028	0.019	0.180	F/m	C	3	85	2011*	CVAAS	[178]
Hong Kong	0.090	0.030	0.022	0.140	F/f/m	C/O/H	3	83	2011*	CVAAS	[178]
The Rest Mainland Area											
8 alpine lakes, Tibet	0.145	0.195	0.010	0.477	W/f	C/O/H	7	62	2004	AFS	[179]
7 rivers and 6 lakes, Tibet	0.100	0.150	0.025	1.218	W/f	C/O/H	13	166	2009-2010	CVAFS	[180]
Niyang River, Tibet	0.026	0.010	0.017	0.044	W/f	O	2	8	2007	AFS	[181]
Urumqi, Xinjiang	0.011	0.012	0.003	0.038	W/f	C/O/H	NA	20	2002	CVAFS	[182]
Urumqi, Xinjiang	0.049	0.037	NA	NA	W/f	C/O/H	NA	30	2002-2004	CVAAS	[183]
Xinjiang	0.015*	NA	NA	NA	NA	NA	NA	52	1986	MC	[72]
Shihezi, Xinjiang	0.300	0.220	0.014	0.900	W/f/m	C/O/H	4	18	2006	CVAAS	[184]

Locations	Total mercury /mg.kg^{-1}				Fish types	Feeding habits	Species No.	Samples No.	Sampling year	Analysis methods	Data sources
	Mean	SD	Min	Max							
Qiandaohu Reservoir, Zhejiang	0.082	0.083	0.011	0.120	W/f	C/O	7	7	2008	CVAFS	[185]
Taiwan	0.080	0.040	0.008	0.025	W/f	O/H	2	12	2004	AAS	[28]
Taiwan	0.18	0.23	0.005	4.69	W/f/m	C/O/H	15	299	2003-2004	CVAAS	[186]
Gaohong *, Zhejiang	0.060	0.054	0.014	0.170	W/f	C/O/H	7	70	2011	AAS	[187]
Zhejiang	0.051*	NA	NA	NA	NA	NA	NA	130	1986	MC	[72]
Changnan, Zhejiang	0.026	NA	NA	NA	F/f	NA	1	20	2004	CVAFS	[188]
Zhoushan, Zhejiang	0.260	0.081	0.010	0.660	W/f/m	C/O	10	148	2006-2007	CVAAS	[189]
Hulun Buir Grassland, Inner Mongolia	0.042	0.023	0.005	0.170	W/f	C/O/H	9	90	1983	CVAAS	[190]
Yunnan	0.011*	NA	NA	NA	NA	NA	NA	64	1986	MC	[72]
Fujian	0.012	NA	NA	NA	NA	NA	23	300	2007	AAS	[90]
Tingjiang river (copper mine)*, Fujian	0.006	0.002	0.003	0.009	W/f	H	1	24	2012*	ICPMS	[191]
Fujian	0.059*	NA	NA	NA	NA	NA	NA	89	1986	MC	[72]
Fujian coastline farming sites	0.096	0.064	0.036	0.251	F/m	C	3	69	2011	CVAFS	[192]
Sanduwan Bay, Fujian	0.032	0.006	0.012	0.084	F/m	NA	3	31	2004	AFS	[193]
6 Fujian coastal sites	0.096	0.061	0.010	0.310	F/m	C/O/H	5	196	2009	CVAFS	[194]
Meizhou, Guangdong	NA	NA	0.002	0.031	W/f/m	NA	NA	10	2009	CVAAS	[195]
Daya/Hailing Bay, Guangdong	0.060	0.040	0.020	0.160	F/m	C	2	99	2007-2008	AFS	[196]
Cross-regional											
Beijing/Shanghai/Jiangsu/Guangdong/Sichuan	0.030	0.050	0.002	0.160	W/f	C/O/H	NA	52	1992	CVAAS	[197]
9 Coastal cities along Bohai/Yellow Sea and East China Sea)	0.023	0.011	0.007	0.053	W/m	C	3	75	2008	AFS	[198]
China and other Asian markets	0.062	0.053	0.001	1.150	F/W/f/m	NA	19	282	2007	CVAAS	[199]
Beijing/Shanghai/Jiangsu/Sichuan/Guangdong	0.030	NA	0.002	0.158	F/W/f/m	C/O/H	NA	505	2008-2010	AAS	[200]

Locations	Total mercury /mg.kg^{-1}				Fish types	Feeding habits	Species No.	Samples No.	Sampling year	Analysis methods	Data sources
	Mean	SD	Min	Max							
5 coastal areas (Guangdong/Shanghai/Jiangsu/Liaoning)	0.054	0.120	0.006	0.590	F/W/f/m	C/O/H	22	400	2007	ICPMS	[201]

Table S4 A list of fish species names (freshwater fish and marine fish) in the Chinese aquatic ecosystems. *The whole dataset covers >600 fish species, with >230 species for freshwater fish and >370 species for marine fish (only within the English literature).

ID	Name of fish species*	Location	Source
	Freshwater fish		
1	Aristichthys nobilis (bighead carp)	Gaohong, Zhejiang	[187]
2	Carassius carassius (crucian carp)	Gaohong, Zhejiang	[187]
3	Ctenopharyngodon idellus (grass carp)	Gaohong, Zhejiang	[187]
4	Channa argus (northern snakehead)	Gaohong, Zhejiang	[187]
5	Misgurnus anguillicaudatus (oriental weatherfish)	Gaohong, Zhejiang	[187]
6	Periophthalmus argentilineatus (mud skipper)	Gaohong, Zhejiang	[187]
7	Pelteobagrus fulvidraco (yellow head catfish)	Gaohong, Zhejiang	[187]
8	Hypophthalmichthys molitrix	Banan	[92]
9	Pseudobagrus fulvidraco	Banan	[92]
10	Hemiculter nigromarginis	Banan	[92]
11	Ctenopharyngodon idellus	Banan	[92]
12	Xenocypris argentead	Banan	[92]
13	Silurus soldatovi meridionalis	Banan	[92]
14	Varicorhinus simus	Banan	[92]
15	Cyprinus carpio	Banan	[92]
16	Carassius auratus	Banan	[92]
17	Coreius heterodon	Banan	[92]
18	Coreius guichenoti	Banan	[92]
19	Leiocassis longirostris	Banan	[92]
20	Leiocassis crassilabris	Banan	[92]
21	Leptobotia elongata	Banan	[92]
22	Rhinogobio typus	Banan	[92]
23	Saurogobio dabryi	Banan	[92]
24	Hemimyzon abbreviata	Banan	[92]
25	Rhinogobio cylimdricus	Banan	[92]
26	Hemiculter leucisclus	Banan	[92]
27	Lateolabras japonicus (weever)	Yellow River Delta	[111]
28	Chaeturichthys sitgmatias (catfish),	Yellow River Delta	[111]
29	Cyprinus carpio Linnaeus (common carp)	Yellow River Delta	[111]
30	Hypophthalmichthys molitrix (Silver carp),	Yellow River Delta	[111]
31	Liza haematocheila (Redeye mullet)	Yellow River Delta	[111]
32	Acanthogobius hasta (javelin goby)	Yellow River Delta	[111]
33	Carassius auratus (Crucian)	Hunan	[202]
34	Hemiculter leucisculus (Crucian, wild carp)	Hunan	[202]
35	Ctenopharyngodon idellus (Crucian, grass carp)	Hunan	[202]
36	Mylopharyngodon Peters (Grass carp, Crucian, herring)	Hunan	[202]
37	Cyprinus carpio (Grass carp, Crucian, carp)	Hunan	[202]
38	Aristichthys mobilis (Grass carp, Crucian, bighead crap)	Hunan	[202]
39	Ctenopharyngodon idellus (Grass carp)	Taihu lake	[146]

ID	Name of fish species*	Location	Source
40	Hypophthalmichthys molitrix(Silver carp)	Taihu lake	[146]
41	A. nobilis(Terch)	Taihu lake	[146]
42	C. carpioLinnaeus (Common carp)	Taihu lake	[146]
43	C. auratusLinnaeus(Crucian carp)	Taihu lake	[146]
44	C. auratusLinnaeus(Crucian carp (Cultured))	Taihu lake	[146]
45	Mylopharyngodon piceus (Black carp)	Taihu lake	[146]
46	Neosalanx tangkahkeii taihuensis Chen (Whitebai)	Taihu lake	[146]
47	Ophiocephalus argus cantor (Argus snakehead fish)	Taihu lake	[146]
48	Erythroculter Mongolian Basilewsky (Mongolian culter)	Taihu lake	[146]
49	E. ilishaeformisBleeker (Topmouth culter)	Taihu lake	[146]
50	Silurus asotus (Catfish)	Taihu lake	[146]
51	Carassius auratus (Crucian)	Hunan	[96]
52	Hemiculter leucisculus (Wild carp)	Hunan	[96]
53	Cyprinus carpio Linnaeu	Amur &Ussuri	[128]
54	Carassius auratu gibeliv	Amur &Ussuri	[128]
55	Parasiburusasvtus	Amur &Ussuri	[128]
56	Pelteobagrus fulvidraco	Amur &Ussuri	[128]
57	Mylopharyngodon piceus	Yangtze river basin	[103]
58	Ctenopharyngodon idellus	Yangtze river basin	[103]
59	Squaliobarbus curriculus (Rich.)	Yangtze river basin	[103]
60	Hypophthalmichthys molitrix	Yangtze river basin	[103]
61	Aristichthys nobilis (Rich.)	Yangtze river basin	[103]
62	Cyprinus carpio Linnaeus	Yangtze river basin	[103]
63	Carassius auratus auratus	Yangtze river basin	[103]
64	Sinibrama macrops	Yangtze river basin	[103]
65	Erythroculter ilishaeformis (Bleeker)	Yangtze river basin	[103]
66	Erythroculter mongolicus (Basilewsky)	Yangtze river basin	[103]
67	Hemiculter leucisculus (Basil.)	Yangtze river basin	[103]
68	Pseudorasbora parve (Temminck et Schlegel	Yangtze river basin	[103]
69	Sarcocheilichthys nigripinnis nigripinnis (Günther)	Yangtze river basin	[103]
70	Coreius heterodon (Bleeker)	Yangtze river basin	[103]
71	Coreius guichenoti	Yangtze river basin	[103]
72	Rhinogobio cylindricus Gunther	Yangtze river basin	[103]
73	Rhinogobio ventralis Savage et Dabry	Yangtze river basin	[103]
74	Rhinogobio typus Bleeker	Yangtze river basin	[103]
75	Platysmacheilus longibarbatus Lo	Yangtze river basin	[103]
76	Leptobotia elongata (Bleeker)	Yangtze river basin	[103]
77	Misgurnus anguillicaudatus	Yangtze river basin	[103]
78	Hemimyzon abbreviata (güntheri)	Yangtze river basin	[103]
79	Pelteobagrus fulvidraco	Yangtze river basin	[103]
80	Leiocassis longirostris Günther	Yangtze river basin	[103]
81	Leiocassis crassirostris Regan	Yangtze river basin	[103]
82	Mystus macropterus (Bleeker)	Yangtze river basin	[103]
83	Silurus asotus Linnaeus	Yangtze river basin	[103]

ID	Name of fish species*	Location	Source
84	Coilia nasus Schlegel	Yangtze river basin	[103]
85	Coilia brachygnathus Kreyenberg et Pappenheim	Yangtze river basin	[103]
86	Coilia mystus (Linnaeus)	Yangtze river basin	[103]
87	Lateolabrax japonicus	Yangtze river basin	[103]
88	Siniperca scherzeri steindachner	Yangtze river basin	[103]
89	Odontobutis obscurus	Yangtze river basin	[103]
90	Channa argus (Cantor)	Yangtze river basin	[103]
91	Hemiramphys kurumeus Jordan et Starks	Yangtze river basin	[103]
92	collichthys lucidus (Richardson)	Yangtze river basin	[103]
93	Pampus argenteus	Yangtze river basin	[103]
94	Cymoglossus robustus	Yangtze river basin	[103]
95	Palaemon (E.) carincauda Holthuis	Yangtze river basin	[103]
96	Macrobrachium nipponense	Yangtze river basin	[103]
97	Eriocheir sinensis	Yangtze river basin	[103]
98	Carp	China	[90]
99	Crucian carp	China	[90]
100	Catfish	China	[90]
101	Yellow catfish	China	[90]
102	Spanish mackerel	China	[90]
103	Hairtail	China	[90]
104	Bluntnose bream	China	[90]
105	Litter yellow croaker	China	[90]
106	Pomfret	China	[90]
107	Chub	China	[90]
108	Finless eel	China	[90]
109	Sleeve-fish	China	[90]
110	Silurus meridionalis Chen	Yangtze river	[64]
111	Leptobotia elongata	Yangtze river	[64]
112	Leiocassis crassilabris Gunther	Yangtze river	[64]
113	Mystus macropterus	Yangtze river	[64]
114	Opsariichthys bidens	Yangtze river	[64]
115	Siniperca kneri Garman	Yangtze river	[64]
116	Liobagrus nigricauda	Yangtze river	[64]
117	pseudobagrus pratti	Yangtze river	[64]
118	Ameiurus melas	Yangtze river	[64]
119	Zacco platypus	Yangtze river	[64]
120	Cyprinidae	Yangtze river	[64]
121	Rhinogobio typus	Yangtze river	[64]
122	Pseudobagrus vachelli	Yangtze river	[64]
123	Pelteobagrus nitidus	Yangtze river	[64]
124	Pseudolaubuca sinensis	Yangtze river	[64]
125	Hemiculter leucisculus	Yangtze river	[64]
126	Tor brevifilis	Yangtze river	[64]
127	Saurogobio dabryi	Yangtze river	[64]

ID	Name of fish species*	Location	Source
128	Rhinogobio ventralis Sauvage et Dabry	Yangtze river	[64]
129	Squalidus argentatus	Yangtze river	[64]
130	Glyptothorax sinensis Regan	Yangtze river	[64]
131	gobiobotia ichangensis Fang	Yangtze river	[64]
132	Coreius heterodon	Yangtze river	[64]
133	Mylopharyngodon piceus	Yangtze river	[64]
134	Rhinogobio cylindricus Gunther	Yangtze river	[64]
135	Hemiculterella sauvagei	Yangtze river	[64]
136	Belligobio nummifer	Yangtze river	[64]
137	Spinibarbus sinensis Bleeker	Yangtze river	[64]
138	Carassius auratus	Yangtze river	[64]
139	Garra pingi pingi	Yangtze river	[64]
140	Botia superciliaris Gu¨nther	Yangtze river	[64]
141	Pseudogyrincheilus procheilus	Yangtze river	[64]
142	Onychostoma sima	Yangtze river	[64]
143	Acrossocheilus yunnanensis	Yangtze river	[64]
144	Lepturichthys fimbriata Gunther	Yangtze river	[64]
145	Jinshaia sinensis	Yangtze river	[64]
146	Golden carp	Qiandaohu reservoir	[185]
147	H. malitrix (silver carp)	Qiandaohu reservoir	[185]
148	H. nobilisR.(bighead carp)	Qiandaohu reservoir	[185]
149	Chanodichthys mongolicus (Mongolian redfin)	Qiandaohu reservoir	[185]
150	C. erythropterus B. (predatory carp)	Qiandaohu reservoir	[185]
151	Ctenopharyngodon idellus (grass carp)	Qiandaohu reservoir	[185]
152	Pelteobagrus fulvidraco (yellow catfish)	Qiandaohu reservoir	[185]
153	Sinipercaspp. (Chinese perch)	Qiandaohu reservoir	[185]
154	Channa argus (Snakehead)	Qiandaohu reservoir	[185]
155	S. asotus (Amur catfish)	Qiandaohu reservoir	[185]
156	Ctenopharyngodon idellus (Grass carp)	Pearl River Delta	[169]
157	Aristichthys nobilis (Bighead carp)	Pearl River Delta	[169]
158	Siniperca chuatsi (Mandarin fish)	Pearl River Delta	[169]
159	Channa argus (Northern snakehead)	Pearl River Delta	[169]
160	Lepomis macrochirus (Largemouth bass)	Pearl River Delta	[169]
161	Carassius auratus (Crucian)	Pearl River Delta	[169]
162	Cyprinus carpio (Common carp)	Pearl River Delta	[169]
163	Squalius cephalus (Chub)	Pearl River Delta	[169]
164	Silver carp	Yangtze river	[104]
165	Grass carp	Yangtze river	[104]
166	Crucian carp	Yangtze river	[104]
167	Common carp	Yangtze river	[104]
168	Bronze gudgeon	Yangtze river	[104]
169	Catfish	Yangtze river	[104]
170	Yellow-head catfish	Yangtze river	[104]
171	Oxygymnocypris stewartii	Niyang river, Tibet	[181]

ID	Name of fish species*	Location	Source
172	Schizopygopsis younghusbaddi	Niyang river, Tibet	[181]
173	Cyprinus carpio (Common carp)	Baihu reservoir	[203]
174	Hypophthalmichthys nobilis (Big-head carp)	Baihu reservoir	[203]
175	Hypophthalmichthys molitrix (Silver carp)	Baihu reservoir	[203]
176	Carassius carassius (Crucian carp)	Baihu reservoir	[203]
177	Ctenopharyngodon idella (Grass carp)	Baihu reservoir	[203]
178	Hemiculter bleekeri bleekeri	Baihu reservoir	[203]
179	Pelteobagrus fulvidraco (yellow-head catfish)	Baihu reservoir	[203]
180	Abbottina obtusirostris	Baihu reservoir	[203]
181	Clarias fuscus (catfish)	Baihu reservoir	[203]
182	Tilapia	Pearl River Delta & Hong Kong	[171]
183	Common carp	Pearl River Delta & Hong Kong	[171]
184	Big head	Pearl River Delta & Hong Kong	[171]
185	Silver carp	Pearl River Delta & Hong Kong	[171]
186	Grass carp	Pearl River Delta & Hong Kong	[171]
187	Black bass	Pearl River Delta & Hong Kong	[171]
188	Hemiculter leucisculus	Baiyangdian lake	[161]
189	Channa argus	Baiyangdian lake	[161]
190	Pseudobagrus fulvidraco	Baiyangdian lake	[161]
191	Carassius auratus	Baiyangdian lake	[161]
192	Misgurnus anguillicaudatus	Baiyangdian lake	[161]
193	Silurus asotus	Baiyangdian lake	[161]
194	Rhodeus atremius	Baiyangdian lake	[161]
195	Aplocheilus latipes	Baiyangdian lake	[161]
196	Fluta alba	Baiyangdian lake	[161]
197	Hypophthalmichthys molitrix	Baiyangdian lake	[161]
198	Parasilurus asotus (Catfish)	Hongjiadu reservoir	[63]
199	Cyprinus carpio (Common carp)	Hongjiadu reservoir	[63]
200	Carassius auratus (Cruician carp)	Hongjiadu reservoir	[63]
201	Hemiculter leuciculis	Hongjiadu reservoir	[63]
202	Varicorhinus lini	Hongjiadu reservoir	[63]
203	Ctenopharyngodon idellus (Grass carp)	Hongjiadu reservoir	[63]
204	Aristichthys nobilis (Big head)	Hongkong	[177]
205	Ctenopharyngodon idellus (Grass carp)	Hongkong	[177]
206	Cirrhinus molitorella (Mud carp)	Hongkong	[177]
207	Micropterus sp. (Freshwater grouper)	Hongkong	[177]
208	Morone saxatilis x chrysops	Asian market	[199]
209	Aristichthys nobilis	Asian market	[199]
210	Ictiobus spp.	Asian market	[199]
211	Callinectes sapidus	Asian market	[199]
212	Cirrhinus molitorella	Asian market	[199]
213	Anguilla japonica	Asian market	[199]
214	Dormitator maculatus	Asian market	[199]
215	Oreochromis spp.	Asian market	[199]

ID	Name of fish species*	Location	Source
216	Coreius heterodon	Three Gorges Reservoir	[79]
217	Cultrichtys erythropterus	Three Gorges Reservoir	[79]
218	Culter mongolicus mongolicus	Three Gorges Reservoir	[79]
219	Cyprinus carpio	Three Gorges Reservoir	[79]
220	Silurus asotus	Three Gorges Reservoir	[79]
221	Cirrhina molitorella (Mud carp)	Pearl River Delta	[172]
222	ctenopharyngodon idellus (Grass carp)	Pearl River Delta	[172]
223	Aristichthys nobilis (Bighead carp)	Pearl River Delta	[172]
224	Siniperca kneri (Mandarin fish)	Pearl River Delta	[172]
225	Cyprinus carpio(carp)	Chagan lake	[143]
226	Hypophthalmichthys molitrix(silver carp)	Chagan lake	[143]
227	Aristichthys nobilis (bighead carp)	Chagan lake	[143]
228	Carassius auratus gubelio (crucian)	Chagan lake	[143]
229	Megalobrama amblycephala (bluntnose black bream)	Chagan lake	[143]
230	Parasilurus asotus (catfish)	Chagan lake	[143]
231	Perccottus glehni (perch sleeper)	Chagan lake	[143]
232	Parasilurus asotus (Catfish)	Chagan lake	[143]
233	Crucians	Sanjiang Plain	[131]
234	Amur sleepers	Sanjiang Plain	[131]
235	Amur bitterlings	Sanjiang Plain	[131]
236	Loaches.	Sanjiang Plain	[131]
237	Ctenopharyngodon idella Valenciennes (grass carp)	Wanshan	[54]
238	Gymnocypris namensis	Tibet	[180]
239	Gymnocypris scleracanthus	Tibet	[180]
240	Gymnocypris waddelli	Tibet	[180]
241	Oxygymnocypris stewartii	Tibet	[180]
242	Pareuchiloglanis kamengensis	Tibet	[180]
243	Pseudecheneis sulcatus	Tibet	[180]
244	Ptychobarbus dipogon	Tibet	[180]
245	Schizopygopsis younghusbandi	Tibet	[180]
246	Schizothorax labiata	Tibet	[180]
247	Schizothorax macropogon	Tibet	[180]
248	Schizothorax o'connori	Tibet	[180]
249	Schizothorax waltoni	Tibet	[180]
250	Silurus asotus linnaeus	Tibet	[180]
251	Freshwater fish (Crucian carp)	Zhoushan	[189]
252	Channa argus (northern snakehead)	Pearl River Delta	[170]
253	Siniperca chuatsi (mandarin fish)	Pearl River Delta	[170]
254	Lepomis macrochirus (largemouth bass)	Pearl River Delta	[170]
255	Aristichthys nobilis (big-head carp)	Pearl River Delta	[170]
256	Ctenopharyngodon idellus (grass carp)	Pearl River Delta	[170]
257	Ctenopharyngodon idellus (grass carps)	Tingjiang river	[191]
258	Aristichthys nobilis (Bighead carp)	Pearl River Delta	[35]
259	Clarias fuscus (Catfish)	Pearl River Delta	[35]

ID	Name of fish species*	Location	Source
260	Ctenopharyngodon idellus (Grass carp)	Pearl River Delta	[35]
261	Mulgil cephalus (Grey mullet)	Pearl River Delta	[35]
262	Siniperca kneri (Mandarin fish)	Pearl River Delta	[35]
263	Cirrhina molitorella (Mud carp)	Pearl River Delta	[35]
264	Monopterus albus (Rice field eel)	Pearl River Delta	[35]
265	Channa asiatiea (Snakehead)	Pearl River Delta	[35]
266	Channa maculate (Spotted snakehead)	Pearl River Delta	[35]
267	Oreochromis mossambicus (Tilapia)	Pearl River Delta	[35]
268	Coreius heterodon	Yangtze River	[87]
269	Pelteobagrus vachelli	Yangtze River	[87]
270	Hypophthalmichthys molitrtix (Silver carp)	Ya'er lake	[99]
271	Cyprinus carpio (Common carp)	Ya'er lake	[99]
272	Carassius carassius (Crucian carp)	Ya'er lake	[99]
273	Ophiocephalus argus cantor (Snakehead fish)	Ya'er lake	[99]
274	Carassius auratus (Crucian carp)	Wanshan	[58]
275	Ctenopharyngodon idella (and grass carp)	Wanshan	[58]
276	Gymnocypris przewalskii	Tibet	[179]
277	Carassius auratus	Tibet	[179]
278	Gymoncypris microcephalus	Tibet	[179]
279	Gymoncypris microcephalus	Tibet	[179]
280	Gymoncypris waddellii	Tibet	[179]
281	Racoma biddulphi Gunther	Tibet	[179]
282	Gymoncypris waddellii	Tibet	[179]
283	Racoma tibetanus	Tibet	[179]
284	Tonguefish	Huludao	[7]
285	Squill	Huludao	[7]
286	Sleeve-fish	Huludao	[7]
287	Goby	Huludao	[7]
288	Lampetra japonica	Sedond Songhua river	[140]
289	Erythroculter ilishaeformis	Sedond Songhua river	[140]
290	Erythroculter oxycephalus	Sedond Songhua river	[140]
291	Erythroculter mongolicus	Sedond Songhua river	[140]
292	Xenocypris macrolepis	Sedond Songhua river	[140]
293	Cyprinus carpio	Sedond Songhua river	[140]
294	Carassius auratus	Sedond Songhua river	[140]
295	Aristichthys nobilis	Sedond Songhua river	[140]
296	Parasilurus asotus	Sedond Songhua river	[140]
297	Pseudobagrus fulvidraco	Sedond Songhua river	[140]
298	Lota lota	Sedond Songhua river	[140]
299	Ophicephalus argus	Sedond Songhua river	[140]
300	Hemiculter leucisculus	Sedond Songhua river	[140]
301	Xenocypris macrolepis	Sedond Songhua river	[140]
302	Cyprinus carpio	Sedond Songhua river	[140]
303	Carassius auratus	Sedond Songhua river	[140]

ID	Name of fish species*	Location	Source
304	Hypophthalmichthys molitrix	Sedond Songhua river	[140]
305	Parasiburus asvtus	Sedond Songhua river	[140]
306	Anodonta woodiana woodiana	Sedond Songhua river	[140]
307	Cristaria plicata	Sedond Songhua river	[140]
308	Lanceolaria grayana	Sedond Songhua river	[140]
309	Unio douglasiae	Sedond Songhua river	[140]
310	Hemiculter leucisculus	Sedond Songhua river	[140]
311	Carassius auratus gibeliv	Sedond Songhua river	[140]
312	Cyprinus carpio Linnaeus,	Sedond Songhua river	[140]
313	Saurogobio dabryi	Sedond Songhua river	[140]
314	Pseudaspius leptocephalus (Flathead asp)	Songhua river	[141]
315	Parasilurus asotus (Catfish)	Songhua river	[141]
316	Camallanus cotti (Chinese hooksnout carp)	Songhua river	[141]
317	Carassius carassius (Cruciancarp)	Songhua river	[141]
318	Pseudorasbora parva (Topmouth gudgeon)	Songhua river	[141]
319	Abbottina rivularis (Chinese false gudgeon)	Songhua river	[141]
320	Leuciscus waleckii (Amur ide)	Songhua river	[141]
321	Ladislavia taczanowskii) (Tachanovsky's gudgeon)	Songhua river	[141]
322	Misgurnus anguillicaudatus) (Loach)	Songhua river	[141]
323	Aristichthys nobilis (Bighead carp)	Songhua river	[141]
324	Hypophthalmichthys molitrix (Silver carp)	Songhua river	[141]
325	Hypophthalmichthys molitrix (silver carp)	Chinese markets	[201]
326	Ctenopharyngodon idellus (grass carp)	Chinese markets	[201]
327	Megalobrama amblycephala (bluntnose black bream)	Chinese markets	[201]
328	Cyprinus carpio (common carp)	Chinese markets	[201]
329	Carassius auratus (crucian carp)	Chinese markets	[201]
330	Oreochromis niloticus (tilapia)	Chinese markets	[201]
331	Mugil soiuy (barracuda)	Chinese markets	[201]
332	Siniperca chuatsi (Chinese perch)	Chinese markets	[201]
333	Micro-pterus salmoides (black bass)	Chinese markets	[201]
334	Channa argus (snakehead fish)	Chinese markets	[201]
335	Pelteobagrus fulvidraco (yellow catfish)	Chinese markets	[201]
336	Monopterus albus (ricefield eel)	Chinese markets	[201]
337	Leiocassis crassilabris Günther	Wujjiang river	[62]
338	Mystus macropterus	Wujjiang river	[62]
339	Opsariichthys bidens	Wujjiang river	[62]
340	Zacco platypus	Wujjiang river	[62]
341	Cyprinidae	Wujjiang river	[62]
342	Hemiculter leucisculus	Wujjiang river	[62]
343	Tor brevifilis	Wujjiang river	[62]
344	Squalidus argentatus	Wujjiang river	[62]
345	Glyptothorax sinensis Regan	Wujjiang river	[62]
346	Hemiculterella sauvagei	Wujjiang river	[62]
347	Hemibarbus maculatus	Wujjiang river	[62]

ID	Name of fish species*	Location	Source
348	Spinibarbus sinensis	Wujjiang river	[62]
349	Carassius auratus	Wujjiang river	[62]
350	Garra pingi pingi	Wujjiang river	[62]
351	Botia superciliaris Günther	Wujjiang river	[62]
352	Pseudogyrincheilus	Wujjiang river	[62]
353	procheilus	Wujjiang river	[62]
354	Lepturichthys fimbriata Günther	Wujjiang river	[62]
355	Jinshaia sinensis	Wujjiang river	[62]
356	Hypophthalmichthys molitrix (comprised silver carp)	Baihua reservoir	[53]
357	Aristichthys novilis (big-head carp)	Baihua reservoir	[53]
358	Cyprinus carpio (common carp)	Baihua reservoir	[53]
359	Ctenopharyugodon idellus (grass carp)	Baihua reservoir	[53]
360	Carassius auratus (silver crucian carp)	Baihua reservoir	[53]
361	Parasilurus asotus	Guizhou	[71]
362	Opsariichthys bidens	Guizhou	[71]
363	Erythroculter ilishaeformis	Guizhou	[71]
364	Micropterus salmonides	Guizhou	[71]
365	Cyprinus carpio	Guizhou	[71]
366	Carassius carassius	Guizhou	[71]
367	Hemiculter bleekeri bleekeri	Guizhou	[71]
368	Oreochromis mossambicus	Guizhou	[71]
369	Aristichthys nobilis	Guizhou	[71]
370	Hypophthalmichthys molitrix	Guizhou	[71]
371	Megalobrama amblycephala	Guizhou	[71]
372	Ctenopharyngodon idellus	Guizhou	[71]
373	Carassius auratus gibelio Bloch 1783	Baihua & Hongfeng	[71]
374	Ctenopharyngodon idella Valenciennes 1844	Baihua & Hongfeng	[71]
375	Cyprinus carpio haematopterus Linaeus 1758	Baihua & Hongfeng	[71]
376	Ctenopharyngodon idellus (grass carp)	Shanghai markets	[153]
377	Megalobrama amblycephala (Wuchang fish)	Shanghai markets	[153]
378	Carassius aumtus (crucian carp)	Shanghai markets	[153]
379	Aristichthys nobilis (bighead carp)	Shanghai markets	[153]
380	Channa argus (northern snakehead)	Shanghai markets	[153]
381	Siniperca chuatsi (mandarin fish)	Shanghai markets	[153]
382	Micropterus salmoides (largemouth bass)	Shanghai markets	[153]
383	C. idellus	Taihu lake	[153]
384	M. amblycephala	Taihu lake	[153]
385	P. pekinensis	Taihu lake	[153]
386	C. carassius	Taihu lake	[153]
387	C. carpio	Taihu lake	[153]
388	H. molitrix	Taihu lake	[153]
389	H. leucisculus	Taihu lake	[153]
390	A. macropterus	Taihu lake	[153]
391	H. nobilis	Taihu lake	[153]

ID	Name of fish species*	Location	Source
392	S. dabryi	Taihu lake	[153]
393	H. intermedius	Taihu lake	[153]
394	P. fulvidraco	Taihu lake	[153]
395	T. swinhonis	Taihu lake	[153]
396	C. taihuensis	Taihu lake	[153]
397	H. maculates	Taihu lake	[153]
398	C. erythropterus	Taihu lake	[153]
399	C. alburnus	Taihu lake	[153]
400	P. hyalocranius	Taihu lake	[153]
401	N. taihuensis Chen	Taihu lake	[153]
402	C. mongolicus	Taihu lake	[153]
403	C. dabryi	Taihu lake	[153]
404	P. guichenoti	Taihu lake	[153]
405	S. asotus	Taihu lake	[153]
406	A. rhombeus	Taihu lake	[153]
407	Cyprinus carpio (common carp)	Beijing	[162]
408	Carassius auratus (crucian carp)	Beijing	[162]
409	Silurus meridionalis (leather catfish)	Beijing	[162]
410	Tilapia nilotica (java tilapia)	Beijing	[162]
411	Chinemys reevesii (Chinese softshell turtle)	Beijing	[162]
	Marine fish		
412	Pompano farmed marine fish	Daya Bay	[196]
413	Snapper farmed marine fish	Daya Bay	[196]
414	Pampus argenteus	Zhejiang	[27]
415	Periophthalmus sericus	Zhejiang	[27]
416	Coilia mystus	Zhejiang	[27]
417	Harpodon nehereus	Zhejiang	[27]
418	Collichthys lucidus	Zhejiang	[27]
419	Cynoglossus joyneri	Zhejiang	[27]
420	Mugil cephalus	Zhejiang	[27]
421	Pampus argenteus (Pomfret)	Zhejiang	[16]
422	Trichiurus japonicus (Hairtail)	Zhejiang	[16]
423	Pseudosciaena crocea (Large yellow croaker)	Zhejiang	[16]
424	Miichthys miiuy (Brown croaker)	Zhejiang	[16]
425	Larimichthys polyactis (Small yellow croaker)	Zhejiang	[16]
426	Lateolabrax japonicus (Japanese seabass)	Zhejiang	[16]
427	Swordfish	Taiwan	[186]
428	Shark	Taiwan	[186]
429	Red porgy	Taiwan	[186]
430	Tuna	Taiwan	[186]
431	Tilapia	Taiwan	[186]
432	Cod	Taiwan	[186]
433	Greater amberjack	Taiwan	[186]
434	Korean mackerels	Taiwan	[186]

ID	Name of fish species*	Location	Source
435	Salmon	Taiwan	[186]
436	Narrow barred spanish	Taiwan	[186]
437	Mackerels	Taiwan	[186]
438	Hairtail	Taiwan	[186]
439	Threadfin	Taiwan	[186]
440	Milkfish	Taiwan	[186]
441	Ocean sunfish	Taiwan	[186]
442	Nematalosa come	Pearl River Estuary	[34]
443	Cynoglossus puncticeps	Pearl River Estuary	[34]
444	Cynoglossus arel	Pearl River Estuary	[34]
445	Leiognathus brevirostris	Pearl River Estuary	[34]
446	Liza macrolepis	Pearl River Estuary	[34]
447	Mugil cephalus	Pearl River Estuary	[34]
448	Valamugil formosae	Pearl River Estuary	[34]
449	Platycephalus indicus	Pearl River Estuary	[34]
450	Plotosus lineatus	Pearl River Estuary	[34]
451	Johnius belangerii	Pearl River Estuary	[34]
452	Dendrophysa russelii	Pearl River Estuary	[34]
453	Pennahia anea	Pearl River Estuary	[34]
454	Nibea albiflora	Pearl River Estuary	[34]
455	Epinephelus awoara	Pearl River Estuary	[34]
456	Epinephelus bruneus	Pearl River Estuary	[34]
457	Siganus fuscescens	Pearl River Estuary	[34]
458	Pampus argenteus	Pearl River Estuary	[34]
459	Inimicus japonicus	Pearl River Estuary	[34]
460	Apogon semilineatus	Dapeng Bay.	[34]
461	Repomucenus curvicornis	Dapeng Bay.	[34]
462	Alepes melanoptera	Dapeng Bay.	[34]
463	Trachurus japonicus	Dapeng Bay.	[34]
464	Carangoides equula	Dapeng Bay.	[34]
465	Psenopsis anomala	Dapeng Bay.	[34]
466	Sardinella jussieu	Dapeng Bay.	[34]
467	sardinella lemuru	Dapeng Bay.	[34]
468	Nematalosa come	Dapeng Bay.	[34]
469	cynoglossus arel	Dapeng Bay.	[34]
470	Gerresfilamentosus	Dapeng Bay.	[34]
471	Gerres macrosoma	Dapeng Bay.	[34]
472	Leiognathus brevirostris	Dapeng Bay.	[34]
473	Photopectoralis bindus	Dapeng Bay.	[34]
474	Lutjanus russellii	Dapeng Bay.	[34]
475	Valamugil formosae	Dapeng Bay.	[34]
476	Valamugil saheli	Dapeng Bay.	[34]
477	Liza macrolepis	Dapeng Bay.	[34]
478	Nemipterus japonicus	Dapeng Bay.	[34]

ID	Name of fish species*	Location	Source
479	Inegocia japonica	Dapeng Bay.	[34]
480	Platycephalus indicus	Dapeng Bay.	[34]
481	Eleutheronema tetradactylum	Dapeng Bay.	[34]
482	Pennahia argentata	Dapeng Bay.	[34]
483	Chrysochir aureus	Dapeng Bay.	[34]
484	Johnius carutta	Dapeng Bay.	[34]
485	Johnius macrorhynus	Dapeng Bay.	[34]
486	Pseudosciaena crocea	Dapeng Bay.	[34]
487	Argyrosomus japonicus	Dapeng Bay.	[34]
488	Nibea albiflora	Dapeng Bay.	[34]
489	Nibea soldado	Dapeng Bay.	[34]
490	Sebastiscus marmoratus	Dapeng Bay.	[34]
491	Epinephelus awoara	Dapeng Bay.	[34]
492	Epinephelus fasciatomaculosus	Dapeng Bay.	[34]
493	Siganus fuscescens	Dapeng Bay.	[34]
494	Siganus canaliculatus	Dapeng Bay.	[34]
495	Sillago sihama	Dapeng Bay.	[34]
496	Evynnis cardinalis	Dapeng Bay.	[34]
497	Sphyraena pinguis	Dapeng Bay.	[34]
498	Saurida elongata	Dapeng Bay.	[34]
499	Harpadon nehereus	Dapeng Bay.	[34]
500	Terapon jarbua	Dapeng Bay.	[34]
501	Terapon theraps	Dapeng Bay.	[34]
502	Apogon doederleini	Dapeng Bay.	[34]
503	Rhynchopelates oxyrhynchus	Dapeng Bay.	[34]
504	Lagocephalus gloveri	Dapeng Bay.	[34]
505	Acanthopagrus australis (Black bream, surf bream)	Hongkong	[176]
506	Acanthopagrus latus (Yellowfin seabream)	Hongkong	[176]
507	Canthopagrus schlegeli (black porgy, blackhead seabream)	Hongkong	[176]
508	Anguilla japonica (japanese eel)	Hongkong	[176]
509	Ariomma indica (Indian ariomma, Indian driftfish)	Hongkong	[176]
510	Aristichthys nobilis (bighead carp)	Hongkong	[176]
511	Beryx splendens (Splendid alfonsino)	Hongkong	[176]
512	Branchiostegus albus (White horsehead)	Hongkong	[176]
513	Cephalopholis urodeta (Darkfin hind)	Hongkong	[176]
514	Channa maculate (Snakehead, blotched snakehead)	Hongkong	[176]
515	Choerodon schoenleinii (Green wrasse, blackspot tuskfish)	Hongkong	[176]
516	Cirrhinus molitorella (mud carp)	Hongkong	[176]
517	Clarias fuscus (Catfish, Hong Kong catfish)	Hongkong	[176]
518	Cololabis saira (Pacific saury)	Hongkong	[176]
519	Cromileptes altivelis (Humpback grouper)	Hongkong	[176]
520	Ctenopharyngodon idellus (Grass carp)	Hongkong	[176]
521	Cynoglossus arel (Largescale tonguesole, tonguefish)	Hongkong	[176]
522	Cynoglossus bilineatus (Fourlined tonguesole)	Hongkong	[176]

ID	Name of fish species*	Location	Source
523	Dentex tumifrons (Golden tail, tellowback seabream)	Hongkong	[176]
524	Eleutheronema tetradactylum (Fourfinger threadfin, blind tasselfish)	Hongkong	[176]
525	Epinephelus areolatus (Areolate grouper, green-spotted rock cod)	Hongkong	[176]
526	Epinephelus awoara (Yellow grouper, banded grouper)	Hongkong	[176]
527	Epinephelus bleekeri (Duskytail grouper)	Hongkong	[176]
528	Epinephelus coioides(Green grouper, orange-spotted grouper, estuary grouper)	Hongkong	[176]
529	Epinephelus fasciatomaculosus (Rock grouper, banded reef-cod)	Hongkong	[176]
530	Epinephelus hexagonatus (Starspotted grouper)	Hongkong	[176]
531	Epinephelus lanceolatus (Giant grouper)	Hongkong	[176]
532	Epinephelus merra (Honeycomb grouper)	Hongkong	[176]
533	Epinephelus quoyanus(Longfin grouper)	Hongkong	[176]
534	Epinephelus trimaculatus (Threespot grouper)	Hongkong	[176]
535	Gymnothorax favagineus (Laced moray)	Hongkong	[176]
536	Gymnothorax reevesii (Reeve's moray)	Hongkong	[176]
537	Hapalogenys nitens (Skewband grunt, Grunt)	Hongkong	[176]
538	Harpadon nehereus(Bombay duck)	Hongkong	[176]
539	Katsuwonus pelamis (Skipjack tuna)	Hongkong	[176]
540	Larimichthys croceus (Yellow croaker, croceine croaker, large yellow croaker)	Hongkong	[176]
541	Lateolabrax japonicas (Japanese seaperch, common sea bass, Japanese seabass)	Hongkong	[176]
542	Lates calcarifer (Barramundi)	Hongkong	[176]
543	Lethrinus obsoletus (Orange-striped emperor)	Hongkong	[176]
544	Lutjanus argentimaculatus (Mangrove red snapper)	Hongkong	[176]
545	Lutjanus malabaricus (Red snapper, Malabar blood snapper)	Hongkong	[176]
546	lutjanus russelli (ussell's snapper, fingermark bream)	Hongkong	[176]
547	Lutjanus stellatus (Star snapper)	Hongkong	[176]
548	Megalobrama terminalis (Black amur bream)	Hongkong	[176]
549	Micropterus salmoides (arge mouth bass, largemouth black bass)	Hongkong	[176]
550	Mugil cephalus (Grey mullet, flathead grey mullet)	Hongkong	[176]
551	Mulloidichthys flavolineatus (Yellowstripe goatfish)	Hongkong	[176]
552	Nemipterus japonicas (japanese golden thread, Japanese threadfin bream)	Hongkong	[176]
553	Nemipterus virgatus (Golden threadfin bream, golden)	Hongkong	[176]
554	Oreochromis niloticus niloticus (Tilapia, Nile tilapia)	Hongkong	[176]
555	Pagrus major (Red pargo, Japanese seabream, red seabream)	Hongkong	[176]
556	Pampus argenteus (Silver pomfret, butterfish, pomfret)	Hongkong	[176]
557	Pampus nozawae (Swallow tail pomfret)	Hongkong	[176]
558	Paralichthys olivaceus (False halibut, bastard halibut)	Hongkong	[176]
559	Parupeneus barberinus (Dash-and-dot goatfish)	Hongkong	[176]
560	Parupeneus indicus (Indian goatfish)	Hongkong	[176]
561	Pennahia argentata (White croaker, white Chinese croaker, silver croaker)	Hongkong	[176]
562	Platycephalus indicus (Flathead, bartail flathead)	Hongkong	[176]
563	Platycephalus spp (Flathead)	Hongkong	[176]
564	Plectorhinchus cinctus (Cresent sweetlips, grunt)	Hongkong	[176]
565	Plectropomus areolatus (Squaretail coralgrouper)	Hongkong	[176]
566	Plectropomus leopardus (Leopard coralgrouper)	Hongkong	[176]

ID	Name of fish species*	Location	Source
567	Pomadasys kaakan (Javelin grunter)	Hongkong	[176]
568	Priacanthus tayenus (urple-spotted bigeye, bigeye perch)	Hongkong	[176]
569	Priacanthus macracanthus (red bigeye, bulls-eye perch)	Hongkong	[176]
570	Psenopsis anomala (butter fish, Pacific rudderfish)	Hongkong	[176]
571	Pseudocaranx dentex (White trevally)	Hongkong	[176]
572	Rachycentron canadum (Black bonito, cobia)	Hongkong	[176]
573	Salmo Salar (Atlantic salmon)	Hongkong	[176]
574	Sarda orientalis (Striped bonito)	Hongkong	[176]
575	Sardinops sagax (outh American pilchard)	Hongkong	[176]
576	Saurida elongate (Slender lizardfish)	Hongkong	[176]
577	Saurida tumbil (Greater lizardfish)	Hongkong	[176]
578	Scatophagus argus (Spotted scat, butter fish, spade fish)	Hongkong	[176]
579	Scomber japonicus (Chub mackerel)	Hongkong	[176]
580	Scomberomorus commerson (Narrow-barred Spanish mackerel, albacore, banded tuna)	Hongkong	[176]
581	Scomberomorus guttatus (Indo-pacific king mackerel)	Hongkong	[176]
582	Sebastiscus marmoratus (Rockfish)	Hongkong	[176]
583	Seriola dumerili (Purple amberjack, greater amberjack)	Hongkong	[176]
584	Seriola lalandi (Yellowtail kingfish, yellowtail amberjack)	Hongkong	[176]
585	Siganus canaliculatus (Rabbitfish, pearl-spotted spinefoot, white-spotted spinefoot)	Hongkong	[176]
586	Sillago japonica (Japanese sillago)	Hongkong	[176]
587	Siniperca chuatsi (Freshwater grouper, Mandarin fish)	Hongkong	[176]
588	Sphyraena flavicauda (Yellowtail barracuda, barracudas)	Hongkong	[176]
589	Trachinotus blochii (Snubnose pompano)	Hongkong	[176]
590	Trachurus japonicus (Japanese jack mackerel, Atlantic horse mackerel)	Hongkong	[176]
591	Trichiurus lepturus (argehead hairtail, hairtail)	Hongkong	[176]
592	Trichiurus nanhaiensis (Largehead hairtail, South China Sea hairtail)	Hongkong	[176]
593	Variola albimarginata (White-edged lyretail , Canned albacore tuna, Canned skipjack tuna, Canned yellowfin tuna)	Hongkong	[176]
594	Cheilinus undulates (Napolean wrasse)	Hongkong	[177]
595	Epinephelus coioides (Orange-spotted Grouper)	Hongkong	[177]
596	Epinephelus Akaara (red grouper)	Hongkong	[177]
597	Heteromycteris matsubarai (Macau sole)	Hongkong	[177]
598	Mylio macrocephalus (Black sea bream)	Hongkong	[177]
599	Mylio Zatus (former1ySparu.r Zatus) (Yellow fin sea bream)	Hongkong	[177]
600	Nemipterus virgatus (Golden thread)	Hongkong	[177]
601	Platycephalus indicus (Flat head)	Hongkong	[177]
602	Siganus canaliculatus (Rabbit fish)	Hongkong	[177]
603	Stromateoides argenteus (White pomfret)	Hongkong	[177]
604	Trichiurus haumela (Hair tail)	Hongkong	[177]
605	Avonoglossus tenuis (Flattish)	Hongkong	[177]
606	Plutycephalus indicus (Flathead)	Hongkong	[177]
607	Cynoglossus melapterus (Tougue fish)	Hongkong	[177]

ID	Name of fish species*	Location	Source
608	Saurida tumbil (Lizard fish)	Hongkong	[177]
609	Argyrosomonus argentatus (White Chinese Croaker)	Hongkong	[177]
610	Cynoglossus melapterus (Tongue fish)	Hongkong	[177]
611	Saurida elongata (Lizard fish)	Hongkong	[177]
612	Platycephalus indicus (Flat head)	Hongkong	[177]
613	Centropristis striata (Bass, Black Sea)	China	[199]
614	Tautoga onitis (Blackfish (Tautog))	China	[199]
615	Pseudosciaena polyactis (Croaker, Yellow)	China	[199]
616	Tentoriceps sp. (Cutlass (Beltfish)	China	[199]
617	Trichiurus sp. (Cutlass (Beltfish)	China	[199]
618	Lepturacanthus sp. (Cutlass (Beltfish)	China	[199]
619	Anguilla japonica (Eel, Canned)	China	[199]
620	Errex zachirus	China	[199]
621	Microstomus pacificus	China	[199]
622	Glyptocephalus cynoglossus	China	[199]
623	Paralichthys dentatus	China	[199]
624	Pseudopleuronectes americanus	China	[199]
625	Scopthalmus aquosus	China	[199]
626	Hippoglossoides platessoides	China	[199]
627	Scomberomerus maculates	China	[199]
628	Trachinotus blochi	China	[199]
629	Pampus spp.	China	[199]
630	Peprilus alepidotus	China	[199]
631	Stenotomus chrysops	China	[199]
632	Pagrus pagrus	China	[199]
633	Lutjanus campechanus	China	[199]
634	Rhomboplites aurorubens	China	[199]
635	Lopholatilus chamaeleonticeps	China	[199]
636	P. major (Red seabream)	Fujian coastal lines	[194]
637	S. ocellatus (red drum)	Fujian coastal lines	[194]
638	A Schlegelii (black seabream)	Fujian coastal lines	[194]
639	L. japonicus (Japanese seabass)	Fujian coastal lines	[194]
640	Siganus fuscessens (rabbitfish)	Fujian coastal lines	[194]
641	Carassius carassius (Crucian carp)	Bohai and Yellow Seas	[145]
642	Tilapia	Guangdong	[46]
643	Ctenopharyngodon idellus	Guangdong	[46]
644	Aristichthys nobilis	Guangdong	[46]
645	Megalobrama amblycephala	Guangdong	[46]
646	Micropterus salmoides Siniperca chuatsi	Guangdong	[46]
647	Ophicephalus argus	Guangdong	[46]
648	Sciaenops ocellatus	Guangdong	[46]
649	Trachinotus blochii	Guangdong	[46]
650	Lutjanus erythopterus	Guangdong	[46]

ID	Name of fish species*	Location	Source
651	Trichiurus lepturu	Guangdong	[46]
652	Nemipterus virgatus	Guangdong	[46]
653	Mugil cephalus	Guangdong	[46]
654	Navodon septentrionalis (Drab filefish)	Zhoushan	[189]
655	Cynoglossus robustus (Cinnamon flounder)	Zhoushan	[189]
656	Muraenesox cinereus (Conger pike)	Zhoushan	[189]
657	Silvery pomfret (Pampus argenteus)	Zhoushan	[189]
658	Argyrosomus argentatus (White mouth croaker)	Zhoushan	[189]
659	Pseudosciaena polyactis (Small yellow croaker)	Zhoushan	[189]
660	Arius thalassinus (Giant seacatfish)	Zhoushan	[189]
661	Trichiurus haumela (Ribbonfish)	Zhoushan	[189]
662	Harpodon nehereus (Bombay duck)	Zhoushan	[189]
663	Platycephalus indicus (Bartail flathead)	Pearl River Delta	[35]
664	Priacanthus macracanthus (Bigeye)	Pearl River Delta	[35]
665	Epinephelus bleekeri (Bleeker's grouper)	Pearl River Delta	[35]
666	Siganus punctatus (Goldspotted rabbitfish)	Pearl River Delta	[35]
667	Nemipterus virgatus (Golden threadfin bream)	Pearl River Delta	[35]
668	Epinephelus coioides (Orange-spotted grouper)	Pearl River Delta	[35]
669	Trachinotus blochii (Snubnose pompano)	Pearl River Delta	[35]
670	Cynoglossus robustus (Tongue sole)	Pearl River Delta	[35]
671	Pseudosciaena crocea (Yellow croaker)	Pearl River Delta	[35]
672	Acanthopagrus latus (Yellow seafin)	Pearl River Delta	[35]
673	Pseudosciaena crocea (large yellow croaker)	coasts of East China	[198]
674	Pseudosciaena polyactis (small yellow croaker)	coasts of East China	[198]
675	Pampus argenteus (silver pomfret)	coasts of East China	[198]
676	Clupanodon thrissa	Shantou	[32]
677	Decapterus	Shantou	[32]
678	Maruadsi	Shantou	[32]
679	Dipturus	Shantou	[32]
680	Kwangtungensis	Shantou	[32]
681	Hyporhamphus	Shantou	[32]
682	Dussumieri	Shantou	[32]
683	Johnius belangerii	Shantou	[32]
684	Nemipterus	Shantou	[32]
685	Virgatus	Shantou	[32]
686	Paraplagusia	Shantou	[32]
687	Japonica	Shantou	[32]
688	Pardachirus	Shantou	[32]
689	Pavoninus	Shantou	[32]
690	Pleuronichthys	Shantou	[32]
691	Cornutus	Shantou	[32]
692	Scorpaena neglecta	Shantou	[32]
693	Siganus	Shantou	[32]
694	Canaliculatus	Shantou	[32]

ID	Name of fish species*	Location	Source
695	Sillago sihama	Shantou	[32]
696	Thamnaconus	Shantou	[32]
697	Hypargyreus	Shantou	[32]
698	Trichiurus sp.	Shantou	[32]
699	Trypauchen vagina	Shantou	[32]
700	Iniistius verrens	Shantou	[32]
701	Acentrogobius	Pearl River Estuary	[32]
702	Chlorostigmatoides	Pearl River Estuary	[32]
703	Acentrogobius sp.	Pearl River Estuary	[32]
704	Coilia mystus	Pearl River Estuary	[32]
705	Konosirus	Pearl River Estuary	[32]
706	punctatus	Pearl River Estuary	[32]
707	Lateolabrax	Pearl River Estuary	[32]
708	japonicus	Pearl River Estuary	[32]
709	Mugil cephalus	Pearl River Estuary	[32]
710	Odontamblyopus	Pearl River Estuary	[32]
711	Lacepedii	Pearl River Estuary	[32]
712	Onigocia	Pearl River Estuary	[32]
713	Macrolepis	Pearl River Estuary	[32]
714	Sardinella albella	Pearl River Estuary	[32]
715	Siganus	Pearl River Estuary	[32]
716	Canaliculatus	Pearl River Estuary	[32]
717	Sillago sihama	Pearl River Estuary	[32]
718	Taenioides	Pearl River Estuary	[32]
719	Anguillaris	Pearl River Estuary	[32]
720	Trypauchen vagina	Pearl River Estuary	[32]
721	Branchiostegus	Beihai	[32]
722	Argentatus	Beihai	[32]
723	Decapterus	Beihai	[32]
724	Maruadsi	Beihai	[32]
725	Evynnis cardinalis	Beihai	[32]
726	Exocoetus volitans	Beihai	[32]
727	Nemipterus	Beihai	[32]
728	Virgatus	Beihai	[32]
729	Trichiurus sp.	Beihai	[32]
730	Sphyraena pinguis	Beihai	[32]
731	Siganus	Beihai	[32]
732	Canaliculatus	Beihai	[32]
733	Psenopsis anomala	Beihai	[32]
734	Trachurus	Beihai	[32]
735	Japonicus	Beihai	[32]
736	Ariomma indicum	Sanya	[32]
737	Branchiostegus	Sanya	[32]
738	Auratus	Sanya	[32]

ID	Name of fish species*	Location	Source
739	Decapterus	Sanya	[32]
740	Maruadsi	Sanya	[32]
741	Evynnis cardinalis	Sanya	[32]
742	Johnius belangerii	Sanya	[32]
743	Konosirus	Sanya	[32]
744	Punctatus	Sanya	[32]
745	Mene maculata	Sanya	[32]
746	Nemipterus	Sanya	[32]
747	Virgatus	Sanya	[32]
748	Polydactylus	Sanya	[32]
749	Sextarius	Sanya	[32]
750	Sargocentron	Sanya	[32]
751	Caudimaculatum	Sanya	[32]
752	Siganus	Sanya	[32]
753	Canaliculatus	Sanya	[32]
754	Terapon theraps	Sanya	[32]
755	Amblyglyphidodon	Xisha	[32]
756	Curacao	Xisha	[32]
757	Apogonichthys sp.	Xisha	[32]
758	Caesio caerulaurea	Xisha	[32]
759	Chaetodon rafflesii	Xisha	[32]
760	Gnathodentex	Xisha	[32]
761	aureolineatus	Xisha	[32]
762	Zanclus cornutus	Xisha	[32]
763	Gnathodentex	Nansha	[32]
764	Aureolineatus	Islands	[32]
765	Cephalopholis	Nansha	[32]
766	Spiloparaea	Islands	[32]
767	Parapercis pacifica	Nansha	[32]
768	Exocoetus sp.	Islands	[32]
769	Nemipterus virgatus (besugo)	Chinese markets	[201]
770	Lateolabrax japonicus (Japanese sea bass)	Chinese markets	[201]
771	Paralichthys olivaceus (pacific fluke)	Chinese markets	[201]
772	Trichiurus haumela (belt fish)	Chinese markets	[201]
773	Pseudosciaena polyactis (small yellow croaker)	Chinese markets	[201]
774	Lepomis macroehius (bluegill Sunfish)	Chinese markets	[201]
775	Pampus argenteus (silvery pomfret)	Chinese markets	[201]
776	Scomberomorus niphonius (pacific mackerel)	Chinese markets	[201]
777	Pseudos-ciaena crocea (large yellowcroaker)	Chinese markets	[201]
778	Trachinotus ovatus (pompano)	Chinese markets	[201]
779	Pagrus major (Red seabream)	Fujian	[192]
780	Sciaenops ocellatus (Red drum)	Fujian	[192]
781	Acanthopagrus schlegelii (black seabream)	Fujian	[192]
782	Liza haernatocheil us (Mullet)	Laizhou Bay	[1]

ID	Name of fish species*	Location	Source
783	Platycephalus indicus) (Flathead fi sh)	Laizhou Bay	[1]
784	Lateolabrax japonic u s (Sea bass)	Laizhou Bay	[1]
785	Scomberomorus niphonius (Mackerel)	Laizhou Bay	[1]
786	Pampus argenteus (Silver pomfret)	Laizhou Bay	[1]
787	Mullet	Laizhou Bay	[1]
788	Flathead fi sh	Laizhou Bay	[1]
789	Mackerel	Laizhou Bay	[1]
790	Silver pomfret	Laizhou Bay	[1]
791	Sea bass	Laizhou Bay	[1]
792	Ocean sunfish	Taiwan	[186]
793	Milkfish	Taiwan	[186]
794	Threadfin	Taiwan	[186]
795	Hairtail	Taiwan	[186]
796	Mackerels	Taiwan	[186]
797	Narrow barred spanish	Taiwan	[186]
798	Salmon	Taiwan	[186]
799	Korean mackerels	Taiwan	[186]
800	Greater amberjack	Taiwan	[186]
801	Cod	Taiwan	[186]
802	Tilapia	Taiwan	[186]
803	Tuna	Taiwan	[186]
804	Red porgy	Taiwan	[186]
805	Shark	Taiwan	[186]
806	Swordfish	Taiwan	[186]
807	Orechromis spp.	Taiwan	[28]
808	Pampus argenteus	Taiwan	[28]
809	Psenopsis anomala	Taiwan	[28]
810	Chanos chanos	Taiwan	[28]
811	Salmo salar	Taiwan	[28]
812	Nemipterus virgatus	Taiwan	[28]
813	Trichiurus lepturus	Taiwan	[28]
814	Hippoglossus spp.	Taiwan	[28]
815	Epinephelus spp.	Taiwan	[28]
816	Rachycentron canadum	Taiwan	[28]
817	Istiophoridae spp.	Taiwan	[28]
818	Scomberomorus commerson	Taiwan	[28]
819	Thunnus spp.	Taiwan	[28]
820	Lutjanus campechanus (red snapper)	Hong Kong	[53]
821	Epinephelus coioides (orange-spotted grouper)	Hong Kong	[53]
822	Trachino-tus blochii (snubnose pompano)	Hong Kong	[53]
823	Hypophthalmichthys molitrix (silver carp)	Hong Kong	[102]
824	Ctenopharyngodon idellus (grass carp)	Hong Kong	[102]
825	Carassius auratus (crucian carp)	Hong Kong	[102]
826	Cyprinus carpio (carp)	Hong Kong	[102]

ID	Name of fish species*	Location	Source
827	Coreius heterodom,	Hong Kong	[102]
828	Silurus asotus (catfish)	Hong Kong	[102]
829	Pelteobagrus fulvidraco (yellow-head catfish)	Hong Kong	[102]
830	Leiognathus rivulatus (Okihiiragi)	South China Sea	[33]
831	Upeneus moluccensis (Kisujihimeji)	South China Sea	[33]
832	Priacanthus macracanthsu (Kintokidai)	South China Sea	[33]
833	Thamnaconus tessellatus (Sarasahagi)	South China Sea	[33]
834	Psenopsis anomala (Ibodai)	South China Sea	[33]
835	Nemipterus bathybius (Sokoitoyori)	South China Sea	[33]
836	Lepidotrigla alata (Igodakahoderi)	South China Sea	[33]
837	Caranx equula (Kaiwari)	South China Sea	[33]
838	Uranoscopus japonicus (Mishimaokoze)	South China Sea	[33]
839	Saurida elongata (Tokageeso)	South China Sea	[33]
840	Acropomatidae	East China Sea	[17]
841	Acropoma japonicum	East China Sea	[17]
842	Doederleinia berycoides	East China Sea	[17]
843	Malakichthys wakiyae	East China Sea	[17]
844	Synagrops japonicus	East China Sea	[17]
845	Apogonidae	East China Sea	[17]
846	Apogon lineatus	East China Sea	[17]
847	Argentinidae	East China Sea	[17]
848	Argentina kagoshimae	East China Sea	[17]
849	Glossanodon semifasciatus	East China Sea	[17]
850	Aulopidae	East China Sea	[17]
851	Aulopus japonicus	East China Sea	[17]
852	Bembridae	East China Sea	[17]
853	Bembras japonica	East China Sea	[17]
854	Chascanopsetta lugubris	East China Sea	[17]
855	Centriscidae	East China Sea	[17]
856	Macroramphosus scolopax	East China Sea	[17]
857	Chaunacidae	East China Sea	[17]
858	Chaunax abei	East China Sea	[17]
859	Chlorophthalmidae	East China Sea	[17]
860	Chlorophthalmus acutifrons	East China Sea	[17]
861	Congridae	East China Sea	[17]
862	Ariosoma shiroanago major	East China Sea	[17]
863	Conger myriaster	East China Sea	[17]
864	Dalatiidae	East China Sea	[17]
865	Etmopterus lucifer	East China Sea	[17]
866	Gobiidae	East China Sea	[17]
867	Amblychaeturichthys sciistius	East China Sea	[17]
868	Hexanchidae	East China Sea	[17]
869	Heptranchias perlo	East China Sea	[17]
870	Macrouridae	East China Sea	[17]

ID	Name of fish species*	Location	Source
871	Caelorinchus multispinulosus	East China Sea	[17]
872	Caelorinchus productus	East China Sea	[17]
873	Monacanthidae	East China Sea	[17]
874	Thamnaconus hypargyreus	East China Sea	[17]
875	Mullidae	East China Sea	[17]
876	Upeneus japonicus	East China Sea	[17]
877	Myctophidae	East China Sea	[17]
878	Diaphus watasei	East China Sea	[17]
879	Ophidiidae	East China Sea	[17]
880	Hoplobrotula armata	East China Sea	[17]
881	Neobythites sivicola	East China Sea	[17]
882	Pleuronectidae	East China Sea	[17]
883	Pleuronichthys sp.	East China Sea	[17]
884	Peristediidae	East China Sea	[17]
885	Peristedion cataphractum	East China Sea	[17]
886	Rajidae	East China Sea	[17]
887	Raja kenojei	East China Sea	[17]
888	Raja kwangtungensis	East China Sea	[17]
889	Sebastidae	East China Sea	[17]
890	Helicolenus hilgendorfi	East China Sea	[17]
891	Sparidae	East China Sea	[17]
892	Dentex tumifrons	East China Sea	[17]
893	Squalidae	East China Sea	[17]
894	Squalus japonicus	East China Sea	[17]
895	Synodontidae	East China Sea	[17]
896	Synodus macrops	East China Sea	[17]
897	Trichiuridae	East China Sea	[17]
898	Trichiurus japonicus	East China Sea	[17]
899	Triglidae	East China Sea	[17]
900	Lepidotrigla guentheri	East China Sea	[17]
901	Trachinotus blochii (silver pomfret)	Shanghai markets	[153]
902	Tenualosa reevesii (reeves shad)	Shanghai markets	[153]
903	Lepturacanthus savala (smallhead hairtail)	Shanghai markets	[153]
904	Pseudosciaena crocea (large yellow croaker)	Shanghai markets	[153]

Table S5 Lifespans of fish in aquatic ecosystems in China from samples reported in the literature. **Average values that are available in the literature; NA: data not available.*

Location	Range	Medium	Fish type	Feeding habit	No. of species	No. of samples	Sampling year	Data source
Beihai, Guangxi	0—1	0.5	Wm	C/H	10	155	2008-2010	[32]
Pearl River Estuary	0—2	1	Wm	C/O/H/P	13	158	2008-2010	[32]
Shantou	0—3	1.5	Wm	C/O/H/P	16	196	2008-2009	[32]
Sanya	0—3	1.5	Wm	C/H	12	108	2008-2010	[32]
Bohaiwan Bay	1—5	3	Wm	C/O/H	22	368	1980-1981	[13]
Bohaiwan Bay	1—6	3.5	Wm	C/O/H	15	183	1980-1981	[13]
Yangtze River	0—7	3.5	Wf	C/O/H	7	292	2012	[102]
Hongfeng reservoir, Guizhou	1—2	1.5	Ff	C/O/H	8	70	2009	[73]
Baihua reservoir, Guizhou	1—2	1.5	Ff	C/O/H	5	58	1989	[74]
Second Songhua River	1—3	2	Ff	C/O/H	9	56	2009	[143]
Baihua reservoir	1—5	3	Ff	C/O/H	9	64	2003	[52]
Coastal watersheds	1—2	1.5	Wf	O	1	36	2008	[145]
Three Gorges Reservoir	1—2	1.5	Wf	C/O/P	5	74	2004-2005	[79]
Second Songhua River	1—3	2	Wf	C/O/H	11	164	2005	[141]
Songhua River	1—3	2	Wf	C/O/H	11	164	2005	[141]
Upstream of Yangtze River	1—3	2	Wf	C/O/H	12	50	1980-2005	[89]
Three-Gorge Reservoir	1—3	2	Wf	C/O/H	11	164	2011	[77]
Gaobeidian Lake, Beijing	1—4	2.5	Wf	NA	5	19	2006	[162]
Qingtongxia Resoiver	1—4	2.5	Wf	C/O/H	NA	55	1983	[108]
Wujiang River	1—6	3.5	Wf	C/O/H	10	188	1989-1990	[70]
Hulun Buir Grassland	1—7	4	Wf	C/O/H	9	90	1983	[190]
Three Geoges Reservoir	1—3	2*	Wf	C/O/H	19	80	1997	[92]
Ningxia	1—4	2*	Wf	C/O/H	7	160	1988	[109]
Baihua Reseroir, Guizhou	1—4	2.3*	Wf	C/O/H/P	9	128	2003	[51]
Guizhou Province	1—6	2.8*	Wf	C/O/H	10	188	1989-1990	[68]
Pearl River Delta	2—3	2.5	Wf	C/O/H	16	48	2009	[168]
Wujiang River	1—6	3*	Wf	C/O/H	10	188	1989-1990	[67]
Wujiang River	1—6	3*	Wf	C/O/H	6	92	1991	[66]
Tibetan (Niyang River)	4—6	5	Wf	O	2	8	2007	[181]
8 alpine lakes, Tibet	6—10.4	8.2	Wf	C/O/H	7	62	2006-2007	[179]
7 rivers and 6 lakes, Tibet	2.7—32	10*	Wf	C/O/H	13	166	2009-2010	[180]

Table S6 Concentrations of the total mercury (μg L^{-1}) and methylmercury (ng L^{-1}) in Chinese seawater and freshwater (supplemented based on references [204, 205]).

Location	Total mercury/μg.L^{-1}				Methylmercury/ng.L^{-1}				Data
	Mean	SD	Min	Max	Mean	SD	Min	Max	source
Sea Waters									
Bohai & Yellow Sea	1.100	0.130	0.870	1.500	NA	NA	NA	NA	[145]
Tianjin	0.334	NA	NA	NA	0.570	NA	NA	NA	[206]
Pearl River Estuary	0.001	NA	0.0004	0.002	NA	NA	NA	NA	[207]
Pearl River Delta	0.027	0.008	0.015	0.044	0.410	0.150	0.160	0.700	[172]
Yellow Sea	0.003	NA	0.001	0.006	NA	NA	NA	NA	[208]
Beidaihe	0.032	NA	NA	NA	2.617	NA	NA	NA	[206]
Dalian	0.040	NA	NA	NA	0.879	NA	NA	NA	[206]
Daya Bay, Hailing Bay	0.058	0.028	0.030	0.493	NA	NA	NA	NA	[39]
Laizhou Bay	0.066	0.016	0.044	0.097	NA	NA	NA	NA	[1]
Huludao	0.084	NA			2.457	NA	NA	NA	[206]
East China Sea	NA	NA	0.002	0.093	NA	NA	NA	NA	[204]
East China sea	NA	NA	0.018	0.026	NA	NA	NA	NA	[27]
Xiamen	0.212	NA	NA	NA	0.626	NA	NA	NA	[206]
Qingdao	0.266	NA	NA	NA	0.230	NA	NA	NA	[206]
Yingkou	0.302	NA	NA	NA	0.836	NA	NA	NA	[206]
Daya Bay/Hailing Bay	0.310	0.260	0.120	0.490	NA	NA	NA	NA	[196]
Guangzhou	0.316	NA	NA	NA	0.414	NA	NA	NA	[206]
Yantai	0.320	NA	NA	NA	0.301	NA	NA	NA	[206]
Wuli Estuary	0.690	NA	0.084	2.700	NA	NA	0.046	0.064	[204]
South China Sea	0.001	NA	0.001	0.002	0.120	NA	0.050	0.220	[209]
Wuli	0.139	NA	0.039	0.430	0.120	NA	0.046	0.280	[210]
Freshwater									
Yalung Tsangpo River, Tibet	0.003	NA	0.001	0.005	0.120	NA	0.060	0.290	[211]
Yinzidu Reservoir, Guizhou	0.001	NA	0.0004	0.002	NA	NA	0.028	0.440	[212]
Suofengying Rswervoir, Guizhou	0.001	NA	0.0004	0.005	0.110	NA	0.030	0.220	[63]
Hongjiadu Reservoir, Guizhou	0.001	NA	0.0003	0.007	0.110	NA	0.050	0.170	[63]
Puding Reservoir, Guizhou	0.003	NA	0.001	0.012	0.320	NA	0.060	0.510	[63]
Mt. Gongga Stream, Guizhou	0.004	NA	0.002	0.007	NA	NA	NA	NA	[213]
Caohai Lake, Guizhou	0.005	NA	0.002	0.009	0.250	NA	0.110	0.670	[204]
Hongfeng Reservoir, Guizhou	0.007	NA	0.003	0.014	NA	NA	0.050	0.330	[48]
Baihua Reservoir, Guizhou	0.007	0.005	0.001	0.020	0.500	0.600	0.030	3.000	[51]
Baihua Reseroir, Guizhou	NA	NA	0.020	0.120	NA	NA	8.000	36.000	[53]
Baihua Reservoir, Guizhou	0.076	NA	0.002	0.336	NA	NA	NA	NA	[204]
Hongfeng Reservoir, Guizhou	0.007	NA	0.003	0.014	NA	NA	0.053	0.330	[204]
Hongfeng Reservoir	7.500	3.500	5.050	15.200	0.150	0.100	0.050	0.350	[49]
Aha Reservoir, Guizhou	0.008	NA	0.002	0.017	0.370	NA	0.030	0.970	[214]
Luchongguan Stream, Guizhou	0.009	NA	NA	NA	NA	NA	NA	NA	[215]
Dongfeng Reservoir, Guizhou	0.009	NA	0.001	0.040	0.750	NA	0.250	1.600	[216]
Wujiangdu Reservoir, Guizhou	0.011	NA	0.006	0.026	0.870	NA	0.470	1.760	[216]
Wujiang River, Guizhou	0.001	0.001	0.0001	0.007	0.110	0.030	0.050	0.170	[63]

Wujiang River, Guizhou	NA	NA	0.036	0.050	NA	NA	NA	NA	[64]
Wujiang River, Guizhou	0.042	NA	0.003	0.330	0.145		0.070	0.700	[204]
Wujiang River, Guizhou	0.044	NA	0.011	0.330	NA	NA	NA	NA	[217]
Wujiang River, Guizhou	NA	NA	0.020	1.460	NA	NA	NA	NA	[62]
River in Wanshan Hg mine, Guizhou	NA	NA	NA	9.300	NA	NA	0.310	25.000	[54]
Second Songhua River	0.033	NA	0.009	0.069	1.000	0.590	0.400	1.900	[140]
Second Songhua River	0.035	0.010	NA	NA	NA	NA	NA	NA	[143]
Second Songhua River	0.190	0.024	0.173	0.233	NA	NA	NA	NA	[141]
Songhua River	0.056	0.009	0.049	0.068	NA	NA	NA	NA	[141]
Sanjiang Plain River	0.053	NA	0.034	0.078	NA	NA	NA	NA	[131]
TieShanPing Stream, Chongqing	0.006	NA	NA	NA	NA	NA	NA	NA	[215]
Lijiang River	0.120	NA	0.051	0.270	NA	NA	NA	NA	[218]
Tianjin (rivers)	0.250	0.060	0.200	0.300	NA	NA	NA	NA	[166]
Huangpu River	0.440	NA	0.012	1.580	NA	NA	NA	NA	[219]
Zaohe River, Shaanxi	0.450	NA	0.099	0.990	NA	NA	NA	NA	[220]
River in Hunan Sb mining area	0.690	0.750	NA	NA	NA	NA	NA	NA	[202]
Wuli River	0.690	NA	0.084	27.000	0.720	NA	0.048	3.000	[210]

Table S7 Concentrations of the total mercury (mg kg^{-1}; dw) and methylmercury (μg kg^{-1}; dw) in Chinese freshwater sediments and marine sediments (supplemented based on references [204, 205]).

Location	Total mercury/mg.kg^{-1}; dw				Methylmercury/ug.kg^{-1}; dw				Data
	Mean	SD	Min	Max	Mean	SD	Min	Max	source
Marine sediment									
Coastal watersheds	0.027	0.028	0.017	0.180	NA	NA	NA	NA	[145]
East China Sea	NA	NA	0.004	0.048	NA	NA	NA	NA	[221]
East China Sea	NA	NA	0.042	0.072	NA	NA	NA	NA	[27]
East China Sea	0.037	NA	0.001	0.080	NA	NA	NA	NA	[222]
Hong kong	NA	NA	0.057	0.094	NA	NA	NA	NA	[171]
Hainan Coast	0.080	NA	0.020	0.100	NA	NA	NA	NA	[223]
Daya Bay/Hailing Bay	0.083	0.008	0.078	0.089	NA	NA	NA	NA	[196]
Laizhou Bay	NA	NA	0.018	0.380	NA	NA	NA	NA	[204]
East China Sea	NA	NA	0.055	0.200	NA	NA	0.017	0.256	[204]
South China Sea	NA	NA	0.020	0.130	NA	NA	0.010	0.053	[204]
Daya Bay, Hailing Bay	0.162	0.005	0.060	0.350	NA	NA	NA	NA	[39]
Southeast China Coast	0.189	NA	0.002	0.904	NA	NA	NA	NA	[224]
Around Hong Kong	0.220	0.088	0.143	0.560	1.270	0.800	0.340	5.600	[178]
Hong Kong	0.220	0.088	0.150	0.470	1.270	0.800	0.180	3.180	[178]
Hong Kong	0.900	NA	0.0001	17.000	NA	NA	NA	NA	[177]
Estuarine sediment									
Yellow River Delta	0.022	0.046	0.002	0.145	NA	NA	NA	NA	[111]
Pearl River Delta	0.054		0.002	0.201	NA	NA	NA	NA	[225]
Pearl river delta	0.150	0.050	0.070	0.230	NA	NA	NA	NA	[35]
Pearl river estuary	0.202	NA	NA	NA	NA	NA	NA	NA	[34]
Pearl River Delta	NA	NA	0.096	2.000	NA	NA	NA	NA	[171]
Pearl River Delta	0.300	0.030	0.250	0.370	1.300	0.440	0.350	1.970	[172]
Pearl River Delta	0.240	0.090	0.033	0.390	0.630	0.270	0.180	1.250	[170]
Pearl River Estuary	NA	NA	0.002	0.200	NA	NA	NA	NA	[207]
Yellow River Estuary	NA	NA	0.012	0.120	NA	NA	NA	NA	[226]
Pearl River Delta	NA	NA	0.033	0.386	NA	NA	NA	NA	[170]
Pearl River Delta	NA	NA	0.163	0.474	NA	NA	NA	NA	[178]
River sediment									
Songhua River	0.025	0.007	0.018	0.034	NA	NA	NA	NA	[141]
Sanjiang Plain	0.055	0.012	0.020	0.200	NA	NA	NA	NA	[131]
Second Songhua River	0.055	0.008	0.047	0.068	NA	NA	NA	NA	[141]
Haihe River	0.110	NA	0.055	0.174	1.070	NA	0.700	1.500	[207]
Wujiang River	0.170	0.140	0.020	0.370	NA	NA	NA	NA	[63]
Yangtze River	0.170	NA	0.011	0.535	NA	NA	NA	NA	[103]
Grand Canal	NA	NA	0.290	1.640	NA	NA	NA	NA	[227]
Second Songhua River	0.540	NA	0.219	1.120	NA	NA	NA	NA	[140]
Yangtze River	0.190	0.170	0.010	0.550	NA	NA	NA	NA	[103]
Huangpu River	0.200	NA	0.070	0.390	NA	NA	NA	NA	[219]
Lijiang River	0.200	NA	0.083	0.460	NA	NA	NA	NA	[218]

Second Songhua River	0.460	0.220	0.030	0.600	3.840	NA	NA	NA	[140]
Zaohe River	NA	NA	0.032	0.377	NA	NA	NA	NA	[220]
Zaohe River	NA	NA	0.032	0.380	NA	NA	NA	NA	[220]
Wujiang River	NA	NA	0.131	0.360	NA	NA	NA	NA	[64]
Yangtze River	0.220	NA	0.080	0.440	NA	NA	NA	NA	[103]
Haihe River	1.037	NA	0.055	8.778	NA	NA	NA	NA	[207]
Reservoir sediment									
Dongfeng Reservoir	0.170	NA	0.140	0.230	NA	NA	0.100	2.800	[204]
Aha Reservoir	0.210	NA	0.160	0.250	1.760	NA	0.220	7.200	[204]
Aha Reservoir	0.215	NA	NA	NA	NA	NA	NA	NA	[214]
Wujiangdu Reservoir	0.250	NA	0.140	0.370	NA	NA	0.100	7.900	[204]
Wujiangdu Reservoir	0.255	NA	NA	NA	NA	NA	NA	NA	[216]
Hongfeng Reservoir	0.390	0.120	0.220	0.580	2.500	2.600	0.610	6.240	[49]
Hongfeng Reservoir	0.390	NA	NA	NA	2.900	NA	NA	NA	[204]
Caohai Lake	0.880	NA	0.760	1.010	1.100	NA	0.110	3.900	[204]
Lake Taihu	0.100	0.070	0.012	0.470	0.280	0.220	0.018	0.960	[146]
Dongfeng Reservoir	0.168	NA	NA	NA	NA	NA	NA	NA	[216]

References:

1. Liu, J. H.; Cao, L.; Huang, W.; Dou, S. Z., Species- and tissue-specific mercury bioaccumulation in five fish species from Laizhou Bay in the Bohai Sea of China. *Chinese Journal of Oceanology and Limnology* **2013,** *31*, (3), 504-513.

2. Xia, C. H., Persistent Organic Pollutants and Trace Elements in Marine Fish from Chinese Coastal Waters: Levels, Distribution and Human Health Risk Assessment (in Chinese). Ph.D. Dissertation. University of Science and Technology of China **2011**.

3. Yan, X. P.; Li, Y.; Jiang, Y., Selective measurement of ultratrace methylmercury in fish by flow injection on-line microcolumn displacement sorption preconcentration and separation coupled with electrothermal atomic absorption spectrometry. *Analytical Chemistry* **2003,** *75*, (10), 2251-2255.

4. Song, Y. G.; Zhang, Y.; Ma, Z. Q.; Wang, N. B.; Chen, Y., The health risk assessments of mercury and arsenic contamination in Bayuquan area in Yingkou (in Chinese). *Hebei Fisheries* **2011,** *210*, (6), 9-11.

5. Kou, X.; Dong, Q.; Liu, X. P.; Tang, Y. S.; Liu, Y. H., Detection on Content of Mercury and Arsenic in Part Marine Products of Jinzhou Area (in Chinese). *J Anhui Agri Sci* **2010,** *38*, (14), 7506-7507.

6. Zhao, L. Q.; Yang, F.; Yan, X. W., Concentrations of Selected Trace Elements in Marine Bivalves and the Dietary Risk to Residents of Dalian City, Northern China. *Human and Ecological Risk Assessment* **2013,** *19*, (1), 145-150.

7. Zheng, N.; Wang, Q.; Zhang, X.; Zheng, D.; Zhang, Z.; Zhang, S., Population health risk due to dietary intake of heavy metals in the industrial area of Huludao city, China. *Science of the Total Environment* **2007,** *387*, (1–3), 96-104.

8. Wang, Y. X.; Li, Q.; Jiang, B.; Shi, M.; Ma, Y., Analysis of methylmercury level in some fishes that sold in Jilin Province in 2010 (in Chinese). *Chinese journal of health laboratory technology,21(9)2318-2319* **2011,** *21*, (9), 2318-2319.

9. Meng, F. X., A study on heavy metal content in several marine fishes along Weihai coastal Sea (in Chinese).Master Dissertation. Shandong University. **2006**.

10. Zhu, G.; Liu, W.; Zhu, Q.; Yang, Z., Determination of the Hg content in seafood from the markets in Taian. . *J Taishan Medical College* **2005,** *26*, (5), 443-444.

11. Gan, J.; Jia, X., Hygienic Quality for Heavy metals of economic fish in Coastal waters of China (in Chinese). *Marine Science Bulletin* **2002,** *16*, (4), 88-93.

12. Yan, Y., Evaluation on heavy metal pollution of economic fish in coastal waters of China (in Chinese). *Marine Environmental Science* **1993,** *12*, (3-4), 99-103.

13. Chen, X. L.; Zhang, Y. Q.; Chen, Z. Q., The chemical forms, accumulation and distribution of mercury in the organs and tissues of the fish from the Bohai Sea (in Chinese). *Marine Environmental Science* **1982,** *1*, (1), 66-74.

14. Miao, L.; Wang, J.; Liu, X., The Distribution of the Mercury Content in Chinese Marine Products and Their Safety Evaluation (in Chinese) *Modern Food Science and Technology* **2013,** *29*, (3), 687-691.

15. Liu, A. J.; Xu, Z. Z.; Liu, G. Z.; Deng, L. J.; Fang, H. D.; Huang, L. M., Inner- and inter-Species differences of mercury concentration in Common Fishes from the Yellow Sea (in Chinese). *Environmental Science & Technology* **2014,** *35*, (2), 764-769.

16. Huang, Z.; Pan, X. D.; Han, J. L.; Wu, P. G.; Tang, J.; Tan, Y., Determination of methylmercury in marine fish from coastal areas of Zhejiang, China. *Food Additives & Contaminants Part B-Surveillance* **2012,** *5*, (3), 182-187.

17. Asante, K. A.; Agusa, T.; Mochizuki, H.; Ramu, K.; Inoue, S.; Kubodera, T.; Takahashi, S.; Subramanian, A.; Tanabe, S., Trace elements and stable isotopes (delta C-13 and delta N-15) in shallow and deep-water organisms from the East China Sea. *Environmental Pollution* **2008,** *156*, (3), 862-873.

18. Arima, S., Total Mercury Level of Fish Caught in East China Sea (in Japanese). *Mem. Fac. Fish. Kagoshima Univ.* **1985,** *34*, (1), 1-6.

19. Chen, X. S.; Chu, M. F.; Peng, Z.; Gao, S.; Liu, Z. T.; Li, Z. H., Detection and evaluation of heavy metals in seafood from Hangzhou market (in Chinese). *Chin J Health Lab Tec* **2014,** *24*, (8), 1176-1179.

20. Sun, W.; Liu, X.; Pan, J.; Wen, H., Levels of heavy metals in commercial fish species from the near-shore of Zhejiang Province (in Chinese). *Journal of Zhejiang University (Science edition)* **2012,** *39*, (3), 338-344.

21. Ye, F. X., Study on the mercury pollution in the sea food of Ningbo (in Chinese). *Environmental Pollution & Control* **2002,** *24*,

(2), 106-108.

22. Gao, Z. J.; Wang, L. N.; Zheng, H. B.; Yao, X. P., Analysis of heavy metals pollution status in seafoods from Ningbo in 2012 (in Chinese). *Chin J Health Lab Tec* **2013,** *23*, (15), 3114-3116.

23. Zhou, Q. X.; Wu, J. H.; Weng, Y. L.; Qian, Y. F.; Shen, Z. H.; Ying, T. E.; Wang, H. Y., Analysis of mercury pollution of economic marine fish (in Chinese). *Chinese Journal of Preventive Medicine* **2007,** *8*, (1), 56-58.

24. He, J. L., Analysis of methylmercury residue in seafish from Zhoushan area (in Chinese). *Chin J Health Lab Tec* **2013,** *23*, (4), 971-972.

25. Zhang, Q.; Wu, F.; He, J.; Yu, X.; Wang, J., Analysis of methylmercury contamination in major seafoods from Zhoushan Fishery (in Chinese). *J. Environ Occup Med* **2011,** *28*, (5), 293-297.

26. Wang, J.; Tong, Z.; Yan, J., Study on the relationship between contents of poison in fishes and the levels of ocean pollutants in Zhoushan Fishery (in Chinese). *Chin J Epidemol* **2005,** *26*, (1), 18-21.

27. Fang, J.; Wang, K. X.; Tang, J. L.; Wang, Y. M.; Ren, S. J.; Wu, H. Y.; Wang, J., Copper, lead, zinc, cadmium, mercury, and arsenic in marine products of commerce from Zhejiang coastal area, China, May 1998. *Bulletin of Environmental Contamination and Toxicology* **2004,** *73*, (3), 583-590.

28. Chen, Y. C.; Chen, M. H., Mercury levels of seafood commonly consumed in Taiwan. *Journal of Food and Drug Analysis* **2006,** *14*, (4), 373-378.

29. Fang, G. C.; Nam, D. H.; Basu, N., Mercury and selenium content of Taiwanese seafood. *Food Additives & Contaminants Part B-Surveillance* **2011,** *4*, (3), 212-217.

30. Ding, Q.; Liu, X., An investigation of total mercury and methylmercury in fish in Suzhou Area (in Chinese). *Suzhou University Journal of Medical Science* **1984**, (1), 55-55.

31. Liu, J.; Xu, X.; Chen, L.; Su, Y.; Wang, S.; Peng, J.; He, Q., Mercury and methylmercury contamination in fish from Yongxing Island and human health risk evaluation (in Chinese). *Marine environmental science* **2013,** *32*, (6), 867-870.

32. Zhu, A. J.; Zhang, W.; Xu, Z. Z.; Huang, L. M.; Wang, W. X., Methylmercury in fish from the South China Sea: Geographical distribution and biomagnification. *Marine Pollution Bulletin* **2013,** *77*, (1-2), 437-444.

33. Arima, S.; Shimada, K.; Uchiyama, M.; Hidaka, M., Total mercury contents in marine fishes caught in the south-east region of the South China Sea. *Mem. Fac. Fish. Kagoshima Univ.* **1989,** *38*, 63-67.

34. Pan, K.; Chan, H.; Tam, Y. K.; Wang, W.-X., Low mercury levels in marine fish from estuarine and coastal environments in southern China. *Environmental Pollution* **2014,** *185*, (0), 250-257.

35. Cheung, K. C.; Leung, H. M.; Wong, M. H., Metal concentrations of common freshwater and marine fish from the Pearl River Delta, South China. *Archives of Environmental Contamination and Toxicology* **2008,** *54*, (4), 705-715.

36. Wang, Z. H.; Lin, Q.; Wang, X. N.; Yang, M. L., Analysis of havy metal contents in marine organisms from Daya Bay (in Chinese). *South China Fisheries Science* **2009,** *5*, (1), 23-28.

37. Yan, J. Y.; Huang, Y. L., Investigation on mercury contamination in freshwater fish in Jiangmen city (in Chinese). *Food Science* **1993,** *165*, (9), 53-53.

38. Yang, M. L.; Lin, Q.; Wang, Z. H.; Zhou, G. J., Analysis on the content and variation trend of heavy metal in the marine organisms in Daya Bay (in Chinese). *Marine environmental science* **2004,** *23*, (1), 41-44.

39. Qiu, Y.; Yan, W.; Wang, Z. D.; Zhang, G., Distribution of heavy metals in seawater, sediments and organisms at Daya Bay and their ecological harm (In Chinese). *J. Tropical oceanography* **2005,** *24*, (5), 69-76.

40. Zhu, X. H., Survey of cantamination of foods with mercury in Jiangmen City (in Chinese). *China Tropical Medicine* **2010,** *10*, (2), 248-249.

41. Jiang, J.; Zhang, H. M.; Lin, K.; Li, X. H.; Qiu, H. M.; Shen, Z. G., Assessment of lead, cadmium and mercury pollution in aquatic product in Shenzhen (in Chinese). *J Hygiene Research* **2011,** *40*, (4), 527-528.

42. Huang, H.; Xu, Y.; Wang, L.; Bai, Y.; Zhang, S.; Zhang, C.; Huang, B., Monitoring of mercury cadmium lead, arsenic contamination in aquatic products in Zhuhai city (in Chinese) *China Public Health* **1998,** *14*, (1), 23-24.

43. Zhou, Y.; Yuan, P.; Guo, W. Z.; Wang, Y. L.; Wang, W. F.; Tang, J.; Li, X. D., Survey on pollution state of heavy metal in

Hengyang City farmers market animal food (in Chinese). *Studies of Trace Elements and Health* **2011,** *28*, (2), 24-27.

44. Liang, P., Mercury in consumer aquatic production and human exposure of mercury via aquatic production consumption in Guangdong province (in Chinese). Master Dissertationn of Southwest University. **2008**.

45. Deng, L.; Lin, S. Z.; Zhang, H. M., Heavy metals in marine mollusks, crustaceans and fish from the Shenzhen coastal region. *Progress in Environmental Science and Technology* **2009,** *II*, 142-146.

46. Li, P.; Feng, X. B.; Liang, P.; Chan, H. M.; Yan, H. Y.; Chen, L. G., Mercury in the seafood and human exposure in coastal area of Guangdong province, South China. *Environmental Toxicology and Chemistry* **2013,** *32*, (3), 541-547.

47. Zhang, L.; Liu, Y.; Ding, Z. H.; Yuan, Y. T.; Hu, Z. Z.; Wang, W. Q.; Wang, M., Mercury concentration and biological quality index of major fish species from Dongzhai mangrove forest area of Hainan (in Chinese). *Chinese Journal of Ecology* **2005,** *30*, (5), 1008-1012.

48. He, T. R.; Feng, X. B.; Guo, Y. N.; Qiu, G. L.; Li, Z. G.; Liang, L.; Lu, J. L., The impact of eutrophication on the biogeochemical cycling of mercury species in a reservoir: A case study from Hongfeng Reservoir, Guizhou, China. *Environmental Pollution* **2008,** *154*, (1), 56-67.

49. He, T.; Feng, X.; Guo, Y.; Qiu, G.; Yan, H.; Meng, B., Distribution and speciation of mercury in the Hongfeng Reservoir, Guizhou Province, China. *Chinese Journal of Geochemistry* **2008,** *27*, (1), 97-103.

50. Shi, S. F., Preliminary analysis of pollutant-containing residues in Hongfeng Lake (in Chinese). *Guizhou Agricultural Sciences* **1981**, (6), 52-54.

51. Liu, B.; Yan, H. Y.; Wang, C. P.; Li, Q. H.; Guedron, S.; Spangenberg, J. E.; Feng, X. B.; Dominik, J., Insights into low fish mercury bioaccumulation in a mercury-contaminated reservoir, Guizhou, China. *Environmental Pollution* **2012,** *160*, 109-117.

52. Yan, H. Y.; Feng, X. B.; Liu, T.; Shang, L. H.; Li, Z. G.; Li, G. H., Present situation of fish mercury pollution in heavily mercury-contaminated Baihua reservoir in Guizhou (in Chinese). *Chinese Journal of Ecology* **2008,** *27*, (8), 1357-1361.

53. Yan, H.; Feng, X.; Jiang, H.; Qiu, G.; Li, G.; Shang, L., The concentrations and distribution of mercury in aquatic ecosystem of Baihua Reservoir. *Chinese Journal of Geochemistry* **2005,** *24*, (4), 377-381.

54. Qiu, G. L.; Feng, X. B.; Wang, S. F.; Fu, X. W.; Shang, L. H., Mercury distribution and speciation in water and fish from abandoned Hg mines in Wanshan, Guizhou province, China. *Science of the Total Environment* **2009,** *407*, (18), 5162-5168.

55. Zhang, P. Q.; Chen, C. Y.; Zhao, J. J.; Li, B.; Qu, L.; Cai, Z. F., Correlation of Mercury,Selenium and Other Elements in the Tissues of Fishes from the Regions at Different Mercury Exposure Level (in Chinese). *Environ Sci* **2004,** *25*, (4), 149-153.

56. Lu, W. X., A study on the environmental health issues in mercury mine area in Eastern Guizhou- Western Hunan (in Chinese). *Northwestern Geology* **2003,** *36*, 146-148.

57. Cui, R. P., Biological monitoring of environmental mercury pollution (in Chinese). *Guizhou Enviromental Protection Science and Technology* **1997,** *3*, (2), 37-38.

58. Ji, X. L.; Hu, W. X.; Cheng, J. P.; Yuan, T.; Xu, F.; Qu, L. Y.; Wang, W. H., Oxidative stress on domestic ducks (Shaoxing duck) chronically exposed in a Mercury-Selenium coexisting mining area in China. *Ecotoxicology and Environmental Safety* **2006,** *64*, (2), 171-177.

59. Cui, R. P.; Ma, X., L.; Man, H. S.; Yao, B. J.; Gu, W. X.; Xia, Q. F., Hazards of mercury pollution in food chain (in Chinese). *Environmental Science & Technology* **1983,** *4*, (2), 14-17.

60. Cui, R. P., An investigation of mercury pollution in Jinjiang River (in Chinese). *Environmental Protection and Technology* **1991**, (1), 1-16.

61. Yao, H.; Feng, X.; Yan, H.; Qiu, G.; Shang, L.; Shi, W., Mercury concentration in fish body in Hongfeng Reservoir of Guizhou Proinve. *Chinese Journal of ecology* **2010,** *29*, (67), 1155-1160.

62. Li, S. X.; Zhou, L. F.; Wang, H. J.; Xiong, M. H.; Yang, Z.; Hu, J. X.; Liang, Y. G.; Chang, J. B., Short-term impact of reservoir impoundment on the patterns of mercury distribution in a subtropical aquatic ecosystem, Wujiang River, southwest China. *Environmental Science and Pollution Research* **2013,** *20*, (7), 4396-4404.

63. Yao, H.; Feng, X. B.; Guo, Y. N.; Yan, H. Y.; Fu, X. W.; Li, Z. G.; Meng, B., MERCURY AND METHYLMERCURY CONCENTRATIONS IN TWO NEWLY CONSTRUCTED RESERVOIRS IN THE WUJIANG RIVER, GUIZHOU, CHINA. *Environmental Toxicology and Chemistry*

2011, *30*, (3), 530-537.

64. Li, S. X.; Zhou, L. F.; Wang, H. J.; Liang, Y. G.; Hu, J. X.; Chang, J. B., Feeding habits and habitats preferences affecting mercury bioaccumulation in 37 subtropical fish species from Wujiang River, China. *Ecotoxicology* **2009,** *18*, (2), 204-210.

65. Wen, Y. F., An investigating study on mercury content of the river section from Yanhe to Pengshui, lower reaches of Wujiang River (in Chinese) *Sichuan Environment* **1994,** *13*, (4), 53-54.

66. Wang, P. J.; Gu, Y. H., The developing Trend of mercury in water body after building the reservoir on the upstream of Wujiang River (in Chinese). *Journal of Guizhou Normal University(Natural Sciences)* **1991,** *17*, (2), 22-27.

67. Fan, Y. K., A preliminary study of impact of mercury on fish in Wujiang River in the upper reaches of the Wujiang River (in Chinese). *Environmental Protection and Technology* **1991**, (2), 32-35.

68. Zhang, M.; Wang, A.; Zhao, X.; Chen, W., The research of methyl mercury chloride aquatic living beings (in Chinese). *Guizhou Science* **1991,** *9*, (2), 155-159.

69. Gu, Y. H.; Xiao, C. W.; Li, D. H., A preliminary study on mercury content of fishes in middle-upper reaches of Wujiang River. *China Environ Sci.* **1998,** *18*, (6), 544-547.

70. Li, T. H., Investigation and Forecast on the Waterbody mercury in upper Wujiang River with cold-vapour atomic absorption spectrometry (in Chinese). *J. Guizhou Institutute of Technology* **1991,** *20*, (4), 60-66.

71. Yan, H. Y.; Rustadbakken, A.; Yao, H.; Larssen, T.; Feng, X. B.; Liu, T.; Shang, L. H.; Haugen, T. O., Total mercury in wild fish in Guizhou reservoirs, China. *Journal of Environmental Sciences-China* **2010,** *22*, (8), 1129-1136.

72. S.N., Z.; Cai, Y. Q., Investigation on the contamination of the aquatic products by methylmercury compounds in fifteen provinces and cities and prelilminary study on the sanitary standard of these compounds(in Chinese). *China Public Health* **1986,** *5*, (2), 7-9.

73. He, T. R.; Wu, Y. Y.; Pan, L. S.; Feng, X. B., Distribution of Mercury Species and Their Concentrations in Fish in Hongfeng Reservoir (in Chinese). *J Southwest University (Natural Science Edition)* **2010,** *32*, (7), 78-82.

74. Wang, P. J.; Gu, Y. H.; Li, D. H., The Discussion on the state of mercury in water body in Baihua lake reservoir (in Chinese). *J. Guizhou Normal Univ(Natural Science)* **1992,** *10*, (2), 29-32.

75. Horvat, M.; Nolde, N.; Fajon, V.; Jereb, V.; Logar, M.; Lojen, S.; Jacimovic, R.; Falnoga, I.; Liya, Q.; Faganeli, J.; Drobne, D., Total mercury, methylmercury and selenium in mercury polluted areas in the province Guizhou, China. *Science of the Total Environment* **2003,** *304*, (1–3), 231-256.

76. Yu, Y.; Wang, Y. C.; Zhou, H. D.; Gao, B.; Zhao, G. F., Biomagnification of Heavy Metals in the Aquatic Food Chain in Daning River of the Three Gorges Reservoir During Initial Impoundment (in Chinese). *Environmental Since* **2013,** *34*, (10), 3847-3853.

77. Yu, Y.; Wang, Y. C.; Zhou, H. D.; Gao, B.; Zhao, G. F., Mercury Reservoir contents in fish and its biomagnification in the food web in Three Gorges after 175m impoundment (in Chinese). *Acta Ecologica Sinica* **2013,** *33*, (13), 4059-4067.

78. Yu, Y.; Wang, Y. C.; Gao, B.; Hong, Y.; Wan, X.; Zhou, H., 2012. Assessment on pollution risk of mercury in fishes of Three Gorges Reservoir after 175m impoundment. Resources and Environment in the Yangtze Basin. 21(5):547-551. **2012**.

79. Zhang, L.; Zang, X.; Xu, J.; Xie, P.; Zhu, Z.; Su, J., Mercury bioaccumulation in fishes of Three Gorges Reservoir after impoundment. *Bulletin of Environmental Contamination and Toxicology* **2007,** *78*, (3-4), 262-264.

80. Wang, W. Y., Investigation of heavy metal content in fish at Chongqing section of the Yangtze River before water s torage in the Three Gorges Reservoir (in Chinese) *Water Resources Protection. 24(5):34-37* **2008,** *24*, (5), 34-37.

81. Qi, J.; Fu, C.; Huang, X.; Tan, J., Transfer of trace elements in water area ecology system of the Three Gorges Reserves (in Chinese) *J Chongqin University (Natural Science Edition)* **2002,** *25*, (1), 17-20.

82. Xu, X. Q.; Zhang, X. H.; Jin, L. J.; Qiu, C. Q., Effect of mercury reactivity on fish mercury contents in the Three-Gorge Reservoir after impoundment (in Chinese). *Resources and Environment in the Yangtze Basin* **1999,** *8*, (2), 198-204.

83. Xu, X. Q.; Qiu, C. Q.; Deng, G. Q.; Hui, J. Y.; Jin, L. J.; Zhang, X. H., Characteristics of element contents in carp (Cyprinus carpio L.) from the Changjiang River (in Chinese). *Resources and Environment in the Yangtze Basin* **1998,** *7*, (3), 267-273.

84. Jin, L. J.; Xu, X. Q., Methylmercury distribution in surface water and fish in the Three-Gorge Reservoir Area (in Chinese) *Resources and Environment in the Yangtze Valley* **1997,** *6*, (4), 324-328.

85. Xu, X. Q.; Qiu, C. Q.; Deng, G. Q.; Hui, J. Y.; Zhang, X. H., Chemical-ecological effects of mercury pollution in the Three Gorge Reservoir Area (in Chinese) *Acta Hydrobiologica Sinica* **1999,** *23*, (3), 197-202.

86. Xiong, D. G.; Liao, J., Mercury in the Environment of Sichuan Provhce (in Chinese). *Sichuan Environment* **1994,** *13*, (1), 46-49.

87. Cai, S.; Ni, Z.; Li, Y.; Shen, Z.; Xiong, Z.; Zhang, Y.; Zhou, Y., Metals in the Tissues of Two Fish Species from the Rare and Endemic Fish Nature Reserve in the Upper Reaches of the Yangtze River, China. *Bulletin of Environmental Contamination and Toxicology* **2012,** *88*, (6), 922-7.

88. Cai, S.; Ni, C.; Li, Y.; Shen, Z.; Zhang, Y.; Zhou, Y., Heavy metal residues in the muscle of fishes from the rare and endemic fishes national nature reserve in the upper reaches of the Yangtze River, China (in Chinese). *J Fishery Sci. China* **2011,** *18*, (6), 1351-1357.

89. Wang, Y., Study on toxic heavy metals (Hg, As) in Jialing River (in Chinese).Master Dissertation, Southwest University. **2008**.

90. Shang, X. H.; Li, X. W.; Zhang, L.; Zhao, Y. F.; Wu, Y. N., Estimation of methylmercury intake from the 2007 Chinese Total Diet Study. *Food Additives & Contaminants Part B-Surveillance* **2010,** *3*, (4), 236-245.

91. shao, L. J., Mercury pollution and security of the sideline aquatic products in suburb of Chengdu (in Chinese).Master Dissertation, Chengdu University of Technology **2010**.

92. Zhang, Z.; He, L.; Li, J.; Wu, Z. B., Analysis Of Heavy Metals Of Muscle And Intestine Tissue In Fish - In Banan Section Of Chongqing From Three Gorges Reservoir, China. *Polish J. of Environ. Stud.* **2007,** *16*, (6), 949-958.

93. Xu, X. Q.; Qiu, C. Q.; Deng, G. Q.; Hui, J. Y.; Zhang, X. H., Prediction of fish mercury bioaccumulation in reservoirs (in Chinese). *Acta Hydrobiologica Sinica* **1998,** *22*, (3), 244-250.

94. Zheng, L.; Li, W.; Li, Y., Analysis and Evaluation of Heavy Metal Pollution in fish in Xiangjiang River (Changsha section) (in Chinese) *Light Industry Science and Technology* **2012**, (9), 94-95.

95. Yang, Z., Analysis of mercury pollution condition in foods in Changsha in 2011 (in Chinese). *Chinese Journal of Health Laboratory Technology* **2013,** *23*, (4), 935-936.

96. Fu, Z. Y.; Wu, F. C.; Mo, C. L.; Liu, B. J.; Zhu, J.; Deng, Q. J.; Liao, H. Q.; Zhang, Y. S., Bioaccumulation of antimony, arsenic, and mercury in the vicinities of a large antimony mine, China. *Microchemical Journal* **2011,** *97*, (1), 12-19.

97. Su, Q.; Qi, S. H.; Jiang, J.; Ma, Z.; Wu, Z.; Ni, Q., Environmental geochemistry assessment of mercury from lakes in Wuhan city, Hubei, China. . *Geochimica* **2006,** *35*, (3), 221-226.

98. Hui, Y.; Xu, Y.; Tang, Q. H.; Wang, W. H., Correlation between mercury concentrations in surface sediment and fish muscle in Ya- Er Lake, Hubei (in Chinese). *J. Safety and Environment* **2005,** *5*, (1), 9-11.

99. Jin, L. N.; Liang, L. N.; Jiang, G. B.; Xu, Y., Methylmercury, total mercury and total selenium in four common freshwater fish species from Ya-Er Lake, China. *Environmental Geochemistry and Health* **2006,** *28*, (5), 401-407.

100. Chen, S.; Hu, G.; Li, Y.; Chen, B.; Zhang, Y.; Liu, W., Heavy metal content pollution investigation and evaluation of organisms in Jiangsu block of Changjiang River (in Chinese). *Jiangsu Geology* **2007,** *31*, (3), 223.

101. Cai, M. P., Environmental impacts of Rubber dam on Zhangjiang River (in Chinese).Master dissertation, JiangXi University of Science and Technology. **2012**.

102. Yi, Y. J.; Zhang, S. H., The relationships between fish heavy metal concentrations and fish size in the upper and middle reach of Yangtze River. *Procedia Environmental Sciences* **2012,** *13*, (0), 1699-1707.

103. Yi, Y. J.; Yang, Z. F.; Zhang, S. H., Ecological risk assessment of heavy metals in sediment and human health risk assessment of heavy metals in fishes in the middle and lower reaches of the Yangtze River basin. *Environmental Pollution* **2011,** *159*, (10), 2575-2585.

104. Yi, Y. J.; Zhang, S. H., Heavy metal (Cd, Cr, Cu, Hg, Pb, Zn) concentrations in seven fish species in relation to fish size and location along the Yangtze River. *Environmental Science and Pollution Research* **2012,** *19*, (9), 3989-3996.

105. Suo, Q.; Mao, Y.; Zhang, F.; Cui, Y., Mercury contents in the muscle tissue of fish species in Xiaolangdi Reservoir. Environmental Chemistry. 32(11):2030-2036. *Environmental Chemistry* **2013,** *32*, (11), 2030-2036.

106. Qun, M. P.; Wang, Y. L.; Cui, G. T., Determination and Evaluation of Heavy Metals in aquatic products in Luoyang river .. 3:36-38. *Shaanxi Journal of Agricultural Sciences* **2010**, (3), 36-38.

107. Zhang, H. Y.; Ni, Z. C.; Li, Y. N., Determination of water and fish mercury in ponds of Yinchuan area. . *J. Ningxia Medical College* **1997,** *19*, (4), 11-13.

108. Zhang, P. Q.; Chen, G.; Zhang, B. H., An investigation on mercury pollution in fish, poultry and fishermen hair in Qingtongxia Reservoir (in Chinese). *Journal of Environment and Health* **1988,** *5*, (6), 29-30.

109. Zhang, P. Q., Variation tendency and impact of mercury pollution of ecosnomic fishs of huanghe River (Ningxia Section) in 1980s (in Chinese). *Arid Envronmental Monitoring* **1993,** *7*, (4), 234-239.

110. Yang, Y. H.; Wu, H. L.; Zhang, S. Y.; Zhang, J. N.; Wang, L. Z.; Wang, L. X.; Li, W. P., Characteristics of heavy metal and organochlorin pollution in the muscle of Silurus lanzhouensis living in the Yellow River (in Chinese). *Journal of Northwest A&f University (Nat Sci Ed)* **2011,** *39*, (12), 67-74.

111. Cui, B. S.; Zhang, Q. J.; Zhang, K. J.; Liu, X. H.; Zhang, H. G., Analyzing trophic transfer of heavy metals for food webs in the newly-formed wetlands of the Yellow River Delta, China. *Environmental Pollution* **2011,** *159*, (5), 1297-1306.

112. Zhang, Y. M.; Qi, X. R.; Zhao, Q. G.; Liu, J. C., Determination of Fish, Pork, Egg and Milk Mercury Contents in Cit ies and Count ies of Shaanxi Province. Determinat ion of Fish, Pork, Egg and Milk Mercury Contents in Cit ies and Count ies of Shaanx i Province (in Chinese). *Acta Univ. Agric. Boreali-occidentalis* **1997,** *25*, (2), 61-65.

113. Fu, Z. Y.; Wu, F. C.; Amarasiriwardena, D.; Mo, C. L.; Liu, B. J.; Zhu, J.; Deng, Q. J.; Liao, H. D., Antimony, arsenic and mercury in the aquatic environment and fish in a large antimony mining area in Hunan, China. *Science of the Total Environment* **2010,** *408*, (16), 3403-3410.

114. Song, Z. R.; Gao, L. W.; Xu, Z. C.; Feng, Z. T.; lei, Z. Y., Epidemiological studies of mercury pollution health effects in the Songhua River area (in Chinese). *Journal of Environment and Health* **1987,** *4*, (6), 6-10.

115. Li, Z. P.; Lei, L.; Cheng, Y., Research on Cymene Hydrargyrum in Fish Bodies in Harbin part of Songhua River and its Analyzed Method (in Chinese). *Heilongjiang Environmental Journal* **2001,** *25*, (2), 69-72.

116. Feng, D.; Ma, J.; Bai, Y.; Xu, D., Research on Mercury Pollution of Fishes in Harbin Songhua River (in Chinese) *Heilongjiang Environmental Journal* **2004,** *28*, (2), 53-55.

117. Lu, L.; Chen, H., Analysis of Mercury contents in some fishes from the Songhua River (in Chinese). *9* **2000,** *4*, (359-361).

118. Liu, Y.; Su, H.; Liu, W., Study on Enrichment of Songhua River Methyl Mercury in Fish Bodies & Its Affecting Factors (in Chinese). *DHPS* **2004,** *20*, (1), 63-66.

119. Qi, S. H., Environmental background value of mercury in water body of the Songhua River Basin (in Chinese). *Scientic Geographica Sinica* **1987,** *7*, (3), 273-279.

120. Sun, W.; Yu, H.; Li, Y., Monitoring and Pollution Assessment of Heavy Metals in Fishes of Songhua River (in Chinese). *South-to-North Transfers and Water Science & Technology* **2013,** *11*, (5), 33-33.

121. Qin, L.; Mou, Z. B.; Zhao, J.; Chen, Z. X.; Jiang, Q., Assessment on Mercury Pollution Status of Fishery Ecological Environment in Songhua River (in Chinese) *Environmental Protection Sciences* **2011,** *37*, (1), 66-69.

122. Yu, C. R.; Wang, W.; Liang, D.; Cao, Z.; He, Y., A Study on the population characteristcs of total mercury and methylmercury in Songhua River (in Chinese). *J. Changchun Univ.of Earth Sciences* **1994,** *24*, (1), 102-109.

123. Wang, X.; Guang, L.; Cui, Q.; Wang, F.; Shen, Y., Epidemiological studies of chronic methylmercury poisoning residents along the Songhua River (in Chinese) *Chinese J Public Health* **1993,** *12*, (4), 208-210.

124. Yu, C. R.; Liang, D.; Cao, L.; He, Y., Study on the total mercury and methylmercury in fish from the Songhua River (in Chinese). *Environmental Science* **1994,** *15*, (4), 35-40.

125. Lu, Y.; Yan, B.; Li, H.; Wang, M.; Guo, L., The evolution rule and ecology risk assessment of mercury in fish of Songhua River. *J Agro-Environmental Science* **2008,** *27*, (6), 2430-2433.

126. Lu, Y.; Zhai, P.; Chen, H.; Zhan, P. R., Residue levels of mercury in fishes of the Songhua River (in Chinese). *Chin J Fisheries* **1999,** *12*, (2), 74-80.

127. Zhu, H.; Yan, B.; Zhang, F., Enrichement of heavy metals in fishes of Songhua River and its pollution assessment (in Chinese). *Journal of Ecology and Rural Environment* **2010,** *26*, (5), 492-496.

128. Qin, D. L.; Chen, Z. X.; Wang, H. T.; Zhao, J. W.; Mou, Z. B., Determination of Total Mercury in Fish from Amur and Ussuri

River of China by Microwave Digestion-ICP/MS Method. *Asian Journal of Chemistry* **2013,** *25*, (7), 3665-3667.

129. Lu, Y. S.; Shang, F. Q.; Luo, F. P., An investigation of mercury residues in fish from Songhuajiang River (in Chinese). *Heilongjiang Fisheries* **2000**, (3), 1-5.

130. Lei, P.; Zhang, Y.; Lei, Y.; Xu, X., The distribution rule of mercury content in the body of freshwater fishes of Suifenhe region (in Chinese). *Honglongjiang Animal Science and Veterinary Medicine* **2014**, (6), 16-20.

131. Wang, Q.; Zhang, Z.; Zhou, X.; Lu, X., Mercury distribution and accumulation in typical wetland ecosystems of Sanjiang Plain, Northeast China. *Chinese Geographical Science* **2013,** *23*, (1), 49-58.

132. Qin, D. L.; Zhan, P. R.; Sun, D. J.; Sun, P.; Wang, F., Environmental Mercury Contamination Monitoring by Using Freshwater Fishes (in Chinese) *J Environ Health* **2009,** *26*, (2), 132-134.

133. Qin, D. L.; Zhan, P. R.; Sun, P.; Wang, F., Research on monitoring mercury contamination in wator environment by crucian card, Carassius auratius (in Chinese). *Fishery Modernization* **2008,** *35*, (4), 16-19.

134. Yang, H. S.; Liu, Z. X., Total mercury survey in fish of aquarium in Mudanjiang City (in Chinese). *Meat Hygiene* **2000,** *196*, (10), 12-13.

135. Liu, Q.; fU, G. W., A Research of Pollution Situation of Hg in the Yalu River Estuary and its Control Countermeasures. . *Urban Environment & Urban Ecology* **1999,** *12*, (5), 26-28.

136. Zhu, J.; Liu, M.; Yang, X.; Yang, H., Research on CymeneHydrargyrum in Fish Bodies in Yi tong River and Its Analyzed Method (in Chinese) *Journal of Changchun University of Science and Technology（Natural Science Edition）* **2007,** *30*, (4), 97-99.

137. Lei, J.; Yuan, H. X.; Ma, C.; Li, P.; Zheng, M.; Chen, G., An Invetigation on mercury pollution of fish in Changchun farm market with atomic absorption spectrophotometry (in Chinese). *Bulletin of Veterinary collegee of PLA* **1988,** *8*, (2), 190-196.

138. Zhang, L.; Wang, Q. C.; Shao, Z. G., Mercury contamination of fish in the Di'er Songhua River of China: the present station and evolution law (in Chinese). *Ecology and Environment* **2005,** *14*, (2), 190-194.

139. Yu, C. R.; Wang, W.; Jin, Q. B.; Wan, S. Y., On the mercury pollution of the fish in the middle and lower reaches of the second Songhua River (in Chinese). *Acta Zoologica Sinica* **1983,** *29*, (4), 371-382.

140. Zhang, Z. S.; Sun, X. J.; Wang, Q. C.; Zheng, D. M.; Zheng, N.; Lv, X. G., Recovery from Mercury Contamination in the Second Songhua River, China. *Water, Air and Soil Pollution* **2010,** *211*, (1-4), 219-229.

141. Zhu, H.; Yan, B.; Cao, H.; Wang, L., Risk assessment for methylmercury in fish from the Songhua River, China: 30 years after mercury-containing wastewater outfalls were eliminated. *Environmental Monitoring and Assessment* **2012,** *184*, (1), 77-88.

142. Li, Z. B.; Wang, Q. C.; Luo, Y. M., Exposure of the urban population to mercury in Changchun city, Northeast China. *Environmental Geochemistry and Health* **2006,** *28*, (1-2), 61-66.

143. Zhu, L.; Yan, B.; Wang, L.; Pan, X., Mercury concentration in the muscle of seven fish species from Chagan Lake, Northeast China. *Environmental Monitoring and Assessment* **2012,** *184*, (3), 1299-310.

144. Zhao, H. Y.; Xu, X. L.; Qu, Z. Y., Detection of Mercury in the Body of Freshwater Fish in the Region of Jinzhou (in Chinese). *Modern Fisheries Information* **2009,** *24*, (1), 23-34.

145. Luo, W.; Wang, T.; Jiao, W.; Hu, W.; Naile, J. E.; Khim, J. S.; Giesy, J. P.; Lu, Y., Mercury in coastal watersheds along the Chinese Northern Bohai and Yellow Seas. *Journal of Hazardous Materials* **2012,** *215–216*, (0), 199-207.

146. Wang, S. F.; Li, B.; Zhang, M. M.; Xing, D. H.; Jia, Y. F.; Wei, C. Y., Bioaccumulation and trophic transfer of mercury in a food web from a large, shallow, hypereutrophic lake (Lake Taihu) in China. *Environmental Science and Pollution Research* **2012,** *19*, (7), 2820-2831.

147. Hao, Y.; Chen, L.; Zhang, X. L.; Zhang, D. P.; Zhang, X. Y.; Yu, Y. X.; Fu, J. M., Trace elements in fish from Taihu Lake, China: Levels, associated risks, and trophic transfer. *Ecotoxicology and Environmental Safety* **2013,** *90*, 89-97.

148. Ding, W. W., Study on the level of mercury in aquatic foods in Suzhou area and investigation on mercury intake of Suzhou residents (in Chinese). Master Dissertation, Suzhou University. **2007**.

149. Fan, L.; Fu, C.; Ding, W., Analysis of Total Mercury in Aquatic Vegetables Cultivated in Suzhou and Aquatic Products in Taihu Lake. *Food Science* **2012,** *33*, (12), 273-275.

150. Dai, Q.; Zhang, Y.; Gao, L.; Zhuang, D., Metal element contents in commercial freshwater fishes from lakes of different

trophic types in Suzhou Region (in Chinese). *Acta Hydrobiologica Sinica* **1990,** *14*, (2), 97-107.

151. Liu, Y.; Lei, H.; Guo, J.; Chen, M.; Su, H., Correlation among the contents in five kinds of freshwater fish, fish intake, mercury in cord blood and in fetal hair in Wujiang. *Journal of Soochow University Medical Science Edition* **2011,** *31*, (5), 751-754.

152. Zhu, W. Y., The bioaccumulation of heavy metals in the freshwater animals and the toxic effect of them on the hepatopancreas of Macrobrachium rosenberggi (in Chinese). Master Dissertation,Shanghai Normal University. **2003**.

153. Lei, B. L.; Chen, L.; Hao, Y.; Cao, T. H.; Zhang, X. Y.; Yu, Y. X.; Fu, J. M., Trace elements in animal-based food from Shanghai markets and associated human daily intake and uptake estimation considering bioaccessibility. *Ecotoxicology and Environmental Safety* **2013,** *96*, 160-167.

154. Wang, F. F., Determination of mercury content in the esculent fresh water fishes (in Chinese). *The food industry* **2007**, (4), 50-52.

155. Shi, K. J.; Liu, J.; Ma, L. J., Investigation and evaluation of lead, cadmium, arsenic, mercury in aquatic products of Nansihu Lake in Shandong (in Chinese). *Food and Drug* **2006,** *8*, (7), 59-61.

156. Dai, F. F.; Qu, N.; Wang, H.; Nie, D. D., Investigation on heavy metal contamination in commercial food in Weifang city in 2010 (in Chinese). *Occup and Health* **2011,** *27*, (8), 886-887.

157. Zhang, L., A Study on Mercury Contamination in Fish from Qingdao City (in Chinese). *Chinese Agricultural Science Bulletin* **2009,** *25*, (3), 293-296.

158. Liu, Y. M., Sources and preventive measures of mercury in fish in Andi reservoir (in Chinese). *Shandong Environment* **1999,** *93*, (5), 53-54.

159. Chen, X. K.; Xu, C. H., Mercuy Residues Investigation of Exported Freshwater Fish in Lianyungang City (in Chinese) *Fisheries Science* **2004,** *23*, (2), 33-34.

160. Sun, J.; Chen, C. Y.; Li, B.; Li, Y. F.; Wang, J. X.; Gao, Y. X.; Cai, Z. F., Analysis of total mercury and methylmercury concentrations in four commercially important freshwater fish species obtained from Beijing markets (in Chinese). *J. Hygiene research* **2006,** *35*, (6), 722-725.

161. Chen, C. Y.; Pickhardt, P. C.; Xu, M. Q.; Folt, C. L., Mercury and arsenic bioaccumulation and eutrophication in Baiyangdian Lake, China. *Water Air and Soil Pollution* **2008,** *190*, (1-4), 115-127.

162. Fu, J. J.; Wang, Y. W.; Zhou, Q. F.; Jiang, G. B., Trophic transfer of mercury and methylmercury in an aquatic ecosystem impacted by municipal sewage effluents in Beijing, China. *Journal of Environmental Sciences-China* **2010,** *22*, (8), 1189-1194.

163. Tong, Y. D.; Guo, M.; Hu, D.; Ou, L. B.; wEI, W.; Zhang, W.; Wang, X. J., Analysis and risk assessment of total mercury and methylmercury in aquatic products in Beijing market (in Chinese). *Ecology and Environmental science* **2010,** *19*, (9), 2187-2191.

164. Sun, B. Q., Biochemistry of mercury pollution-Survery of mercury content of fish in two fish farms (in Chinese). *Capital Normal Nniversity (Natural Science Edition)* **1984**, (2), 34-41.

165. Dong, K. Y.; Lin, C. Y.; Wang, B., The enrichment and residual law of mercury in four freshwater fish (in Chinese). *Beijing Agricultural Sciences* **1998,** *16*, (1), 21-23.

166. Wang, X. L.; Sato, T.; Xing, B. S.; Tao, S., Health risks of heavy metals to the general public in Tianjin, China via consumption of vegetables and fish. *Science of the Total Environment* **2005,** *350*, (1-3), 28-37.

167. Yang, X.; Wen, Y.; Chen, X.; Wang, W.; Fang, J., Heavy metal enrichement in Aquatic organisms of Beijing River: Its characteristics and pollution evaluation (in Chinese). *Environmental Sci Technology* **2010,** *23*, (6), 194-198.

168. Xie, W.; Chen, K.; Zhu, X.; Nie, X.; Zheng, G.; Pan, D.; Wang, S., Evaluation on heavy metal contents in water and fishes collected from the waterway in the Pearl River Delta, South China. . *Journal of Agro-Envrionment Science* **2010,** *29*, (10), 1917-1923.

169. Shao, D. D.; Kang, Y.; Cheng, Z.; Wang, H. S.; Huang, M. J.; Wu, S. C.; Chen, K. C.; Wong, M. H., Hair mercury levels and food consumption in residents from the Pearl River Delta: South China. *Food Chemistry* **2013,** *136*, (2), 682-688.

170. Shao, D. D.; Liang, P.; Kang, Y.; Wang, H. S.; Cheng, Z.; Wu, S. C.; Shi, J. B.; Lo, S. C. L.; Wang, W. X.; Wong, M. H., Mercury species of sediment and fish in freshwater fish ponds around the Pearl River Delta, PR China: Human health risk assessment. *Chemosphere* **2011,** *83*, (4), 443-448.

171. Zhou, H. Y.; Wong, M. H., Mercury accumulation in freshwater fish with emphasis on the dietary influence. *Water Research* **2000,** *34*, (17), 4234-4242.

172. Cheng, Z.; Liang, P.; Shao, D.-d.; Wu, S.-c.; Nie, X.-p.; Chen, K.-c.; Li, K.-b.; Wong, M.-h., Mercury Biomagnification in the Aquaculture Pond Ecosystem in the Pearl River Delta. *Archives of Environmental Contamination and Toxicology* **2011,** *61*, (3), 491-9.

173. Lin, D. M.; Wu, L. N.; Mai, J. M.; Zhang, Q.; Yang, F. R., Monitoring of the pollution of aquatic products in Panyu, Guangzhou in 2009-2011 (in Chinese). *J. Trop. Med.* **2012,** *12*, (9), 1150-1153.

174. Tian, W. J.; Chen, L. G.; Mo, C. H. X.; Xu, Z. C.; Fang, J. D.; Liang, M. Y.; Huang, Y. M., Concentrations and exposure risk assessment of methylmercury in regularly consumed fishes from Guangzhou Markets, China (in Chinese). *J Agro-Environmental Science* **2011,** *30*, (3), 416-421.

175. Li, M. Y.; Mo, G.; Chen, L.; Li, Y., Monitoring of chemical contaminants in food in Wuzhou in 2009-2010 (in Chinese). *Applied Prev Med* **2011,** *17*, (2), 99-101

176. Chung, S. W. C.; Kwong, K. P.; Tang, A. S. P.; Xiao, Y.; Ho, P. Y. Y., Mercury and methylmercury levels in the main traded fish species in Hong Kong. *Food Additives & Contaminants Part B-Surveillance* **2008,** *1*, (2), 106-113.

177. Dickman, M. D.; Leung, K. M. C., Mercury and organochlorine exposure from fish consumption in Hong Kong. *Chemosphere* **1998,** *37*, (5), 991-1015.

178. Liang, P.; Shao, D.-D.; Wu, S.-C.; Shi, J.-B.; Sun, X.-l.; Wu, F.-Y.; Lo, S. C. L.; Wang, W.-X.; Wong, M. H., The influence of mariculture on mercury distribution in sediments and fish around Hong Kong and adjacent mainland China waters. *Chemosphere* **2011,** *82*, (7), 1038-1043.

179. Yang, R.; Jing, C.; Zhang, Q.; Wang, Z.; Wang, Y.; Li, Y.; Jiang, G., Polybrominated diphenyl ethers (PBDEs) and mercury in fish from lakes of the Tibetan Plateau. *Chemosphere* **2011,** *83*, (6), 862-867.

180. Zhang, Q. G.; Pan, K.; Kang, S. C.; Zhu, A. J.; Wang, W. X., Mercury in Wild Fish from High-Altitude Aquatic Ecosystems in the Tibetan Plateau. *Environmental Science & Technology* **2014,** *48*, (9), 5220-5228.

181. Yang, R. Q.; Jing, C. Y.; Zhang, Q. H.; Jiang, G. B., Identifying semi-volatile contaminants in fish from Niyang River, Tibetan Plateau. *Environmental Earth Sciences* **2013,** *68*, (4), 1065-1072.

182. Yi, B. L. Y., A study on heavy metal pollution of some surface water bodies in Urumqi (in Chinese).Master dissertation,Xinjiang Medical University. **2004**.

183. Yan, L.; Guo, W.; Pan, Y.; Zhang, T.; Wang, X., An investigation of arsenic and mercury in fish and poultry in Urumqi (in Chinese). *Endemic Disease Bulletin* **2005,** *20*, (3), 25-26.

184. Li, J.; Zhang, L.; Bai, F. L., An investigation of total mercury and lead in commercially available fish in Shihezi City. . 27(5):73-74. *Reservoir Fisheries* **2007,** *27*, (5), 73-74.

185. Fang, T.; Aronson, K. J.; Campbell, L. M., Freshwater Fish-Consumption Relations With Total Hair Mercury and Selenium Among Women in Eastern China. *Archives of Environmental Contamination and Toxicology* **2012,** *62*, (2), 323-332.

186. Chien, L.-C.; Yeh, C.-Y.; Jiang, C.-B.; Hsu, C.-S.; Han, B.-C., Estimation of acceptable mercury intake from fish in Taiwan. *Chemosphere* **2007,** *67*, (1), 29-35.

187. Shao, D. D.; Wu, S. C.; Liang, P.; Kang, Y.; Fu, W. J.; Zhao, K. L.; Cao, Z. H.; Wong, M. H., A human health risk assessment of mercury species in soil and food around compact fluorescent lamp factories in Zhejiang Province, PR China. *Journal of Hazardous Materials* **2012,** *221–222*, (0), 28-34.

188. Ding, L. F., Investigation and assessment of heavy metal pollution in main agricultural product and environment of Changnan courntry (in Chinese). Master Dissertation, Zhejiang University. **2008**.

189. Cheng, J. P.; Gao, L. L.; Zhao, W. C.; Liu, X. J.; Sakamoto, M.; Wang, W. H., Mercury levels in fisherman and their household members in Zhoushan, China: Impact of public health. *Science of the Total Environment* **2009,** *407*, (8), 2625-2630.

190. Ha, L.; Bai, S. L.; Xiao, J. M., Investigation of Contents of Total Mercury in Fishes in the Huluea Lake, Inner Mongolia (in Chinese). *Environmental Science* **1990,** *11*, (1), 45-46.

191. Liu, F.; Ni, H. G.; Chen, F.; Luo, Z. X.; Shen, H. Q.; Liu, L. P.; Wu, P., Metal accumulation in the tissues of grass carps

(Ctenopharyngodon idellus) from fresh water around a copper mine in Southeast China. *Environmental Monitoring and Assessment* **2012,** *184*, (7), 4289-4299.

192. Onsanit, S.; Wang, W. X., Sequestration of total and methyl mercury in different subcellular pools in marine caged fish. *Journal of Hazardous Materials* **2011,** *198*, 113-122.

193. Li, X. Z., 2008. Total mercury in the marine culture products and relative environmental samples from Sandu Bay of Fujian Province and its health risk assessment (in Chinese). *J. Fishery Sciences of China* **2008,** *15*, (6), 961-969.

194. Onsanit, S.; Chen, M.; Ke, C. H.; Wang, W. X., Mercury and stable isotope signatures in caged marine fish and fish feeds. *Journal of Hazardous Materials* **2012,** *203*, 13-21.

195. Luo, P.; Huang, Y.; Zhong, G.; Qiu, Y.; Wen, D., Analysis of chemical pollutant test result for food in Meizhou city in 2009 (in Chinese). *Occp and Health* **2010,** *26*, (20), 2322-2323.

196. Qiu, Y. W.; Lin, D. A.; Liu, J. Q.; Zeng, E. Y., Bioaccumulation of trace metals in farmed fish from South China and potential risk assessment. *Ecotoxicology and Environmental Safety* **2011,** *74*, (3), 284-293.

197. Yang, H.; Han, Y.; Huang, L., Survey of mercury contamination of food in some areas of China *J Hygiene Research* **1994,** *23*, (2), 95-96.

198. Xia, C. H.; Wu, X. G.; Lam, J. C. W.; Xie, Z. Q.; Lam, P. K. S., Methylmercury and trace elements in the marine fish from coasts of East China. *Journal of Environmental Science and Health Part a-Toxic/Hazardous Substances & Environmental Engineering* **2013,** *48*, (12), 1491-1501.

199. McKelvey, W.; Chang, M.; Arnason, J.; Jeffery, N.; Kricheff, J.; Kass, D., Mercury and polychlorinated biphenyls in Asian market fish: A response to results from mercury biomonitoring in New York City. *Environmental Research* **2010,** *110*, (7), 650-657.

200. Yang, H. F.; Luo, X. Y.; Shen, W.; Zhou, Z. F., National food contamination monitoring programmes-Levels of mercury, lead and cadmium in Chiense foods. *Biomedical and Envrironmental Sciences* **1994,** *7*, 362-368.

201. Du, Z. Y.; Zhang, J.; Wang, C. R.; Li, L. X.; Man, Q. Q.; Lundebye, A. K.; Froyland, L., Risk-benefit evaluation of fish from Chinese markets: Nutrients and contaminants in 24 fish species from five big cities and related assessment for human health. *Science of the Total Environment* **2012,** *416*, 187-199.

202. Fu, Z.; Wu, F.; Amarasiriwardena, D.; Mo, C.; Liu, B.; Zhu, J.; Deng, Q.; Liao, H., Antimony, arsenic and mercury in the aquatic environment and fish in a large antimony mining area in Hunan, China. *Science of the Total Environment* **2010,** *408*, (16), 3403-3410.

203. Liu, B.; Yan, H.; Wang, C.; Li, Q.; Guedron, S.; Spangenberg, J. E.; Feng, X.; Dominik, J., Insights into low fish mercury bioaccumulation in a mercury-contaminated reservoir, Guizhou, China. *Environmental Pollution* **2012,** *160*, 109-117.

204. Qiu, G.; Feng, X.; Jiang, G., Synthesis of current data for Hg in areas of geologic resource extraction contamination and aquatic systems in China. *Science of the Total Environment* **2012,** *421–422*, (0), 59-72.

205. Lin, Y.; Vogt, R.; Larssen, T., Environmental mercury in China: A review. *Environmental Toxicology and Chemistry* **2012,** *31*, (11), 2431-2444.

206. Han, F.; Shan, X. Q.; Zhang, S. Z.; Wen, B., Mercury speciation in China's coastal surface seawaters. *International Journal of Environmental Analytical Chemistry* **2004,** *84*, (8), 583-598.

207. Shi, H. B.; Liang, L. N.; Jiang, G. B.; Jin, X. L., The speciation and bioavailability of mercury in sediments of Haihe River, China. *Environment International* **2005,** *31*, (3), 357-365.

208. Ci, Z.; Zhang, X.; Wang, Z.; Niu, Z., Phase speciation of mercury (Hg) in coastal water of the Yellow Sea, China. *Marine Chemistry* **2011,** *126*, (1–4), 250-255.

209. Fu, X.; Feng, X.; Zhang, G.; Xu, W.; Li, X.; Yao, H.; Liang, P.; Li, J.; Sommar, J.; Yin, R.; Liu, N., Mercury in the marine boundary layer and seawater of the South China Sea: Concentrations, sea/air flux, and implication for land outflow. *Journal of Geophysical Research: Atmospheres* **2010,** *115*, (D6), D06303.

210. Wang, S. F.; Jia, Y. F.; Wang, S. Y.; Wang, X.; Wang, H.; Zhao, Z. X.; Liu, B. Z., Total mercury and monomethylmercury in water, sediments, and hydrophytes from the rivers, estuary, and bay along the Bohai Sea coast, northeastern China. *Applied Geochemistry* **2009,** *24*, (9), 1702-1711.

211. Zheng, W.; Kang, S.; Feng, X.; Zhang, Q.; Li, C., Mercury speciation and spatial distribution in surface waters of the Yarlung Zangbo River, Tibet. *Chin. Sci. Bull.* **2010,** *55*, (24), 2697-2703.

212. Meng, B.; Feng, X. B.; Chen, C. X.; Qiu, G. L.; Sommar, J.; Guo, Y. N.; Liang, P.; Wan, Q., Influence of Eutrophication on the Distribution of Total Mercury and Methylmercury in Hydroelectric Reservoirs All rights reserved. No part of this periodical may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or any information storage and retrieval system, without permission in writing from the publisher. *J. Environ. Qual.* **2010,** *39*, (5), 1624-1635.

213. Fu, X.; Feng, X.; Zhu, W.; Rothenberg, S.; Yao, H.; Zhang, H., Elevated atmospheric deposition and dynamics of mercury in a remote upland forest of southwestern China. *Environmental Pollution* **2010,** *158*, (6), 2324-2333.

214. Feng, X.; Bai, W.; Shang, L.; He, T.; Qiu, G.; Yan, H., Mercury speciation and distribution in Aha Reservoir which was contaminated by coal mining activities in Guiyang, Guizhou, China. *Applied Geochemistry* **2011,** *26*, (2), 213-221.

215. Wang, Z. W.; Zhang, X. S.; Xiao, J. S.; Zhijia, C.; Yu, P. Z., Mercury fluxes and pools in three subtropical forested catchments, southwest China. *Environmental Pollution* **2009,** *157*, (3), 801-808.

216. Feng, X. B.; Jiang, H. M.; Qiu, G. L.; Yan, H. Y.; Li, G. H.; Li, Z. G., Geochemical processes of mercury in Wujiangdu and Dongfeng reservoirs, Guizhou, China. *Environmental Pollution* **2009,** *157*, (11), 2970-2984.

217. Jiang, H.; Feng, X.; Dai, Q.; Tao, F.; Liu, C., The distribution and speciation of mercury in Wujiang river. *J. Phys. IV France 107 (2003) 679* **2003,** *107*, 679-982.

218. Qian, J.; Zhang, L.; Cao, C.; Niu, Y.; Liang, G.; Jiang, W., Distribution and pollution of mercury in the Lijiang River system (in Chinese). *Geochimica* **2010,** *39*, (4), 314-325.

219. Ding, Z.; Wang, W.; Liu, C.; Tang, Q.; Zhuang, M., Distribution and species of mercury in water and sediments from Huangpu River (in Chinese with English abstract). *Environ Sci* **2005,** *26*, (5), 62-66.

220. Jin, Y.; Wang, X.; Lu, J.; Zhang, C.; Duan, Q., Effects of modern and ancient human activities on mercury in the environment in Xi'an area, Shanxi Province, P.R. China (in Chinese). *Environ Pollut* **2008,** *153*, 342-350.

221. Fang, T.-H.; Chen, R.-Y., Mercury contamination and accumulation in sediments of the East China Sea. *Journal of Environmental Sciences* **2010,** *22*, (8), 1164-1170.

222. Shi, J. B.; Liang, L. N.; Yuan, C. G.; He, B.; Jiang, G. B., Methylmercury and total mercury in sediments collected from the East China Sea. *Bulletin of Environmental Contamination and Toxicology* **2005,** *74*, (5), 980-987.

223. Qiu, Y.-W.; Yu, K.-F.; Zhang, G.; Wang, W.-X., Accumulation and partitioning of seven trace metals in mangroves and sediment cores from three estuarine wetlands of Hainan Island, China. *Journal of Hazardous Materials* **2011,** *190*, (1–3), 631-638.

224. Ding, Z. H.; Liu, J. L.; Li, L. Q.; Lin, H. N.; Wu, H.; Hu, Z. Z., Distribution and speciation of mercury in surficial sediments from main mangrove wetlands in China. *Marine Pollution Bulletin* **2009,** *58*, (9), 1319-1325.

225. Shi, J.-b.; Ip, C. C. M.; Zhang, G.; Jiang, G.-b.; Li, X.-d., Mercury profiles in sediments of the Pearl River Estuary and the surrounding coastal area of South China. *Environmental Pollution* **2010,** *158*, (5), 1974-1979.

226. Liu, R.; Ling, M.; Wang, Y.; P., Y.; Tang, A., Mercury and other metals in surface sediment of the Bay of Laizhou and the Estuary of Yellow River, China. The 9th International Conference on Mercury as a Global Pollutant, Abstracts, Guiyang. **2009**.

227. Wang, X.; Han, J.; Xu, L.; Gao, J.; Zhang, Q., Effects of anthropogenic activities on chemical contamination within the Grand Canal, China. *Environmental Monitoring and Assessment* **2011,** *177*, (1-4), 127-139.