

River system	Mean (range) of $p\text{CO}_2$ (μatm)					Method	Reference
	Basin wide	Main stem	Headwater	Tributary	Impoundment		
Global	3100					E	Raymond et al. (2013), GLORICH ^a
	(0–100 000)					E	Lauerwald et al. (2015), GLORICH ^a
	2400		4196 ^b			E/M	Marx et al. (2017), GLORICH ^a
	(2019–2826)		(32–93616)				
Asia (total)	1754	1263	1170	2116	835		Sum of freshwater data below
	(28–11 793)	(35–10 977)	(74–5076)	(28–11 793)	(128–8785)		
S Asia							
Ganges	893	1083	401	1685	181, 224 ^c	E/M	Manaka et al. (2015b), GLORICH ^a
	(65–2620)	(65–2184)	(165–1222)	(1035–2620)			
Brahmaputra	664	494	292	758		E	Huang et al. (2011), Manaka et al. (2015b), Qu et al. (2017), GLORICH ^a
	(28–6706)	(65–6706)	(208–513)	(28–3678)			
Indus	853	941		768		E	GLORICH ^a
	(117–7725)	(117–7725)		(165–3161)			
Krishna	2152	1871		2305		E	GLORICH ^a
	(711–4098)	(976–2536)		(711–4098)			
Godavari	8785 ^d				8785 ^d	E	Prasad et al. (2013)
Bhote Kosi	592	592				E	GLORICH ^a
	(35–5907)	(35–5907)					
Various	2685	3081			609	E/M	Panneer Selvam et al. (2014)
	(420–10 977)	(426–10 977)			(420–692)		
Cochin	(2975–6001) ^e					E	Gupta et al. (2009) (saline estuary)
Other estuaries	5882					E	Sarma et al. (2012) (saline estuary)
	(293–18 492)						
SE Asia							
Mekong	1235	1120	1367 ^f	1310	882 ^g	E/M	Alin et al. (2011), Li et al. (2013b), Manaka et al. (2015a)
	(110–4503)	(703–1687)		(110–4503)	(864–899)		
Red River	1589	1589				M	Le et al. (2017)
	(992–3129)	(992–3129)					
Irrawaddy	2007	2007				E	Manaka et al. (2015a)
	(1222–3157)	(1222–3157)					
Chao Phraya	3202	2814	3357			E	Manaka et al. (2015a)
	(925–5076)	(2632–2996)	(925–5076)				
Malaysian rivers	1217	1217				M	Wit et al. (2015)
	(1159–1274)	(1159–1274)					
Indonesian rivers	5262	5262				M	Wit et al. (2015)
	(2400–8555)	(2400–8555)					
E Asia							
Yellow	2164	2104	1083	2470	555, 441 ^h	E/M	Ran et al. (2015a), Ran et al. (2017a)
	(147–9659)	(582–4770)	(147–3546)	(425–9659)	(266–735)		
Yangtze	2366	1322	794	2680	1393	E	Qu et al. (2015), Liu et al. (2016), Ran et al. (2017b ⁱ), GLORICH ^a
	(74–7718)	(528–3800)	(74–4472)	(249–7718)	(760–1908)		
Pearl River	1747	2465	1671	1967		E	Yao et al. (2007), Zhang et al. (2009), Zou (2016), GLORICH ^a
	(231–5006)	(2136–2833)	(231–5006)	(282–4808)			
Han River	2571	1480	628	4670	251	M	Yoon et al. (2017)
	(101–11 793)	(173–4089)		(101–11 793)	(128–454)		