

TransCom region	Prior		Fires	In situ only			GOSAT only			In situ + GOSAT			In situ only, Tighter prior			GOSAT only, Tighter prior		
	Flux <sup>a</sup>	Unc.	Flux	Flux	Unc.	U.R. (%) <sup>b</sup>	Flux	Unc.	U.R. (%)	Flux	Unc.	U.R. (%)	Flux	Unc.	U.R. (%)	Flux	Unc.	U.R. (%)
Boreal North America	-0.1	0.6	0.1	0.1	0.1	81	0.2	0.3	43	0.1	0.1	87	-0.1	0.1	71	0.0	0.2	27
Temperate North America	-0.3	1.5	0.0	-0.6	0.1	93	-1.5	0.3	82	-0.7	0.1	96	-0.6	0.1	87	-1.2	0.2	71
Tropical America	0.4	1.0	0.1	-0.4	0.7	33	-0.2	0.2	79	-0.3	0.2	82	-0.2	0.3	26	-0.1	0.1	67
Temperate South America	0.4	1.2	0.1	0.4	0.8	31	1.1	0.2	85	1.0	0.2	85	0.3	0.3	27	0.9	0.1	73
Northern Africa	0.2	1.1	0.4	1.5	0.7	38	2.0	0.2	83	1.8	0.2	84	1.1	0.3	28	2.0	0.1	70
Southern Africa	0.0	1.2	0.8	-0.1	0.7	44	-0.6	0.1	89	-0.5	0.1	89	-0.1	0.3	38	-0.6	0.1	80
Boreal Asia	-0.1	1.2	0.1	-1.2	0.4	70	-0.5	0.4	65	-1.2	0.2	87	-1.0	0.2	60	-0.5	0.2	51
Temperate Asia	0.0	1.8	0.1	-0.1	0.7	61	1.4	0.4	79	0.9	0.3	85	-0.5	0.3	53	1.0	0.2	67
Tropical Asia	0.3	0.6	0.4	0.0	0.4	33	0.5	0.3	54	0.7	0.2	61	0.4	0.2	25	0.8	0.1	39
Australia	0.0	0.5	0.1	-0.2	0.4	15	0.6	0.2	71	0.3	0.1	73	-0.2	0.2	12	0.3	0.1	56
Europe	-0.1	1.3	0.0	0.6	0.4	70	-1.5	0.3	75	-0.6	0.2	87	0.3	0.2	61	-1.6	0.2	64
North Pacific Ocean	-0.5	0.3	0.0	-0.9	0.1	51	-0.5	0.2	29	-1.1	0.1	67	-0.8	0.1	29	-0.5	0.1	11
Tropical West Pacific Ocean	0.1	0.3	0.0	0.1	0.2	26	0.3	0.1	51	0.5	0.1	59	0.1	0.1	15	0.3	0.1	24
Tropical East Pacific Ocean	0.4	0.3	0.0	0.4	0.2	25	0.4	0.1	54	0.3	0.1	62	0.4	0.1	13	0.4	0.1	25
South Pacific Ocean	-0.3	0.6	0.0	-1.0	0.4	32	-1.1	0.3	51	-1.8	0.2	60	-0.6	0.2	18	-0.9	0.1	30
Arctic/Northern Ocean	-0.3	0.3	0.0	-0.4	0.1	56	-0.5	0.2	19	-0.1	0.1	62	-0.3	0.1	31	-0.4	0.1	5
North Atlantic Ocean	-0.2	0.2	0.0	-0.8	0.1	35	-0.5	0.1	23	-1.0	0.1	50	-0.5	0.1	12	-0.3	0.1	6
Tropical Atlantic Ocean	0.1	0.3	0.0	0.1	0.2	23	0.3	0.2	42	0.4	0.1	56	0.1	0.1	9	0.2	0.1	14
South Atlantic Ocean	-0.2	0.4	0.0	-0.5	0.3	19	-0.7	0.2	38	-1.0	0.2	49	-0.3	0.1	8	-0.5	0.1	18
Southern Ocean	-0.2	0.6	0.0	-0.4	0.3	48	-0.9	0.4	41	0.2	0.2	62	-0.5	0.1	34	-1.1	0.1	22
Tropical Indian Ocean	0.1	0.4	0.0	0.0	0.3	27	0.7	0.2	56	0.5	0.2	62	0.1	0.1	16	0.4	0.1	32
Southern Indian Ocean	-0.4	0.3	0.0	-0.5	0.2	15	-0.6	0.2	29	-0.6	0.2	40	-0.5	0.1	7	-0.4	0.1	11