

1 **Supplemental Materials**

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3 A list of all references (in alphabetical order) taken into account in the literature review  
4 of ozone air-surface exchange displayed in Table 2. This list of references does not claim  
5 to be complete.

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8 **Table 2** : Literature review showing the frequency of usage of each method available to  
9 calculate an ozone flux (EC = eddy correlation; PG = profile gradient; CH = chamber),  
10 the platforms used for each method, and the various landscape categories above which  
11 fluxes are being calculated. Also, the ranges of measured ozone gas exchange under each  
12 category are being reported.

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14 (\*) The list of all references taken into account in the statistics of this table is given in the  
15 Appendix.

Method/ Percent*	Platform	Percent* method	Landscape type by category	Percent* of studies	Gas exchange range (cm s <sup>-1</sup> )	
EC 65.3	Tower	50.8	agriculture	22.0	0.0 → 2.0	
			forest	37.3	-1.5 → 1.8	
			natural grass	20.3	0.0 → 0.5	
			bare soil	3.4	0.05 → 0.25	
			sand	1.7	0.04 → 0.15	
			snow	11.9	-0.05 → 0.5	
			ocean	3.4	0.005 → 0.04	
			urban	0	-	
	Aircraft	12.1		agriculture	46.7	0.01 → 1.2
				forest	20.0	0.8 → 1.0
				natural grass	20.0	0.12 → 0.23
				bare soil	6.7	0.3 → 0.9
				sand	0.0	-
				snow	0.0	-
ocean				6.7	0.05	
urban				0	-	
Balloon	2.4		agriculture	0	-	
			forest	0	-	
			natural grass	33.3	0.3 → 0.72	
			bare soil	0	-	
			sand	0	-	
			snow	33.3	0.006 → 0.3	
			ocean	0	-	
			urban	33.3	0.085	
PG 25.8	Tower	22.6	agriculture	30.8	0.3 → 0.6	
			forest	30.8	0.04 → 1.1	
			natural grass	19.2	-0.4 → 2.3	
			bare soil	0	-	
			sand	0	-	
			snow	7.7	-3.3 → 1.7	
			ocean	7.7	0.08 → 1.15	
			urban	3.8	0.13	
	Ground	1.6		agriculture	0	-
				forest	0	-
				natural grass	0	-
				bare soil	0	-
				sand	0	-
				snow	0	-
ocean				0	-	
urban				100	0.0 → 0.45	
Balloon	1.6		agriculture	0	-	
			forest	66.7	Not available	
			natural grass	0	-	
			bare soil	33.3	Not available	
			sand	0	-	
			snow	0	-	
			ocean	0	-	
			urban	0	-	
CH 8.9	-	8.9	agriculture	0	-	
			forest	18.2	0.0 → 0.5	
			natural grass	9.1	0.3 → 5.0	
			bare soil	18.2	0.5 → 5.0	
			sand	9.1	1.6 → 2.5	
			snow	18.2	0.004 → 0.125	
			ocean	27.3	0.015 → 0.1	
			urban	0	-	

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