



Supplement of

Evidence for the impact of fire activity on daily variations of IASI mid-tropospheric CO₂ anomalies at 8–11 km over South America: a pyroconvective fingerprint

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Filters	August		September		October		Whole fire season	
	Anomalies filtered (%)	Anomalies collocated with FRP (%)	Anomalies filtered (%)	Anomalies collocated with FRP (%)	Anomalies filtered (%)	Anomalies collocated with FRP (%)	Anomalies filtered (%)	Anomalies collocated with FRP (%)
No filters	/	29.7	/	48.0	/	41.1	/	39.7
Filter 1	2.0	29.8	2.6	48.5	3.5	42.0	2.8	40.2
Filter 2	25.4	39.1	12.8	54.0	8.2	44.4	14.9	45.9
Filter 3	19.3	36.8	14.7	56.2	18.9	50.6	17.7	48.2
Filter 4	66.8	48.7	45.5	61.6	49.1	56.1	53.4	56.4
Filter 5	2.6	30.5	4.5	50.3	9.5	45.4	5.8	42.1
All filters	76.0	65.5	58.3	78.9	63.7	77.4	65.8	75.4
Filters	Longitudinal period		Circular period		Combined period			
	Anomalies filtered (%)	Anomalies collocated with FRP (%)	Anomalies filtered (%)	Anomalies collocated with FRP (%)	Anomalies filtered (%)		Anomalies collocated with FRP (%)	
No filters	/	40.1	/	40.0	/		38.3	
Filter 1	2.6	40.5	1.7	40.2	4.9		39.6	
Filter 2	19.1	49.1	14.9	46.0	7.9		41.3	
Filter 3	17.0	48.3	16.5	47.9	21.2		48.6	
Filter 4	54.2	57.4	51.7	57.0	55.0		53.5	
Filter 5	4.5	42.0	6.1	42.6	7.6		41.5	
All filters	66.2	76.2	64.2	75.3	68.1		74.0	

Table S1: Percentage of MT-CO₂ anomalies filtered successively by the 5 filters described in Section 3.1 and percentage of the remaining anomalies actually collocated with FRP at month level, transport regimes level and all fire season level.