

Supplementary information: Differences in Leaf Temperature between Lianas and Trees in the Neotropical Canopy

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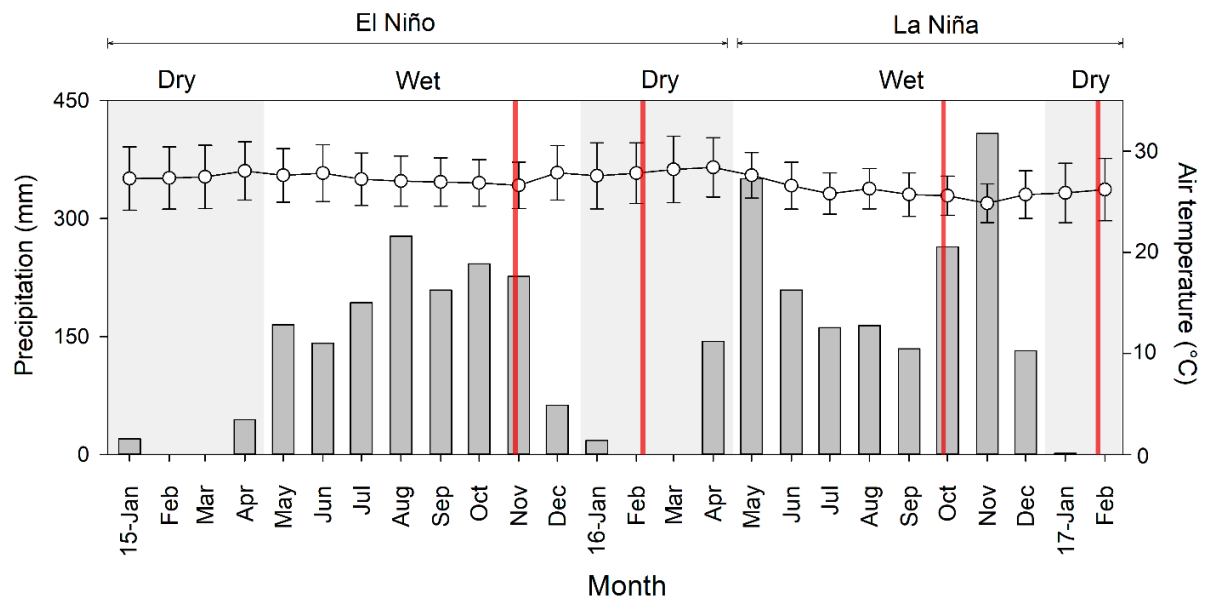


Figure S1. Monthly total precipitation and average monthly air temperature during wet and dry seasons in contrasting ENSO years at Parque Natural Metropolitano, Panama. Vertical red lines represent the campaigns of data collection.

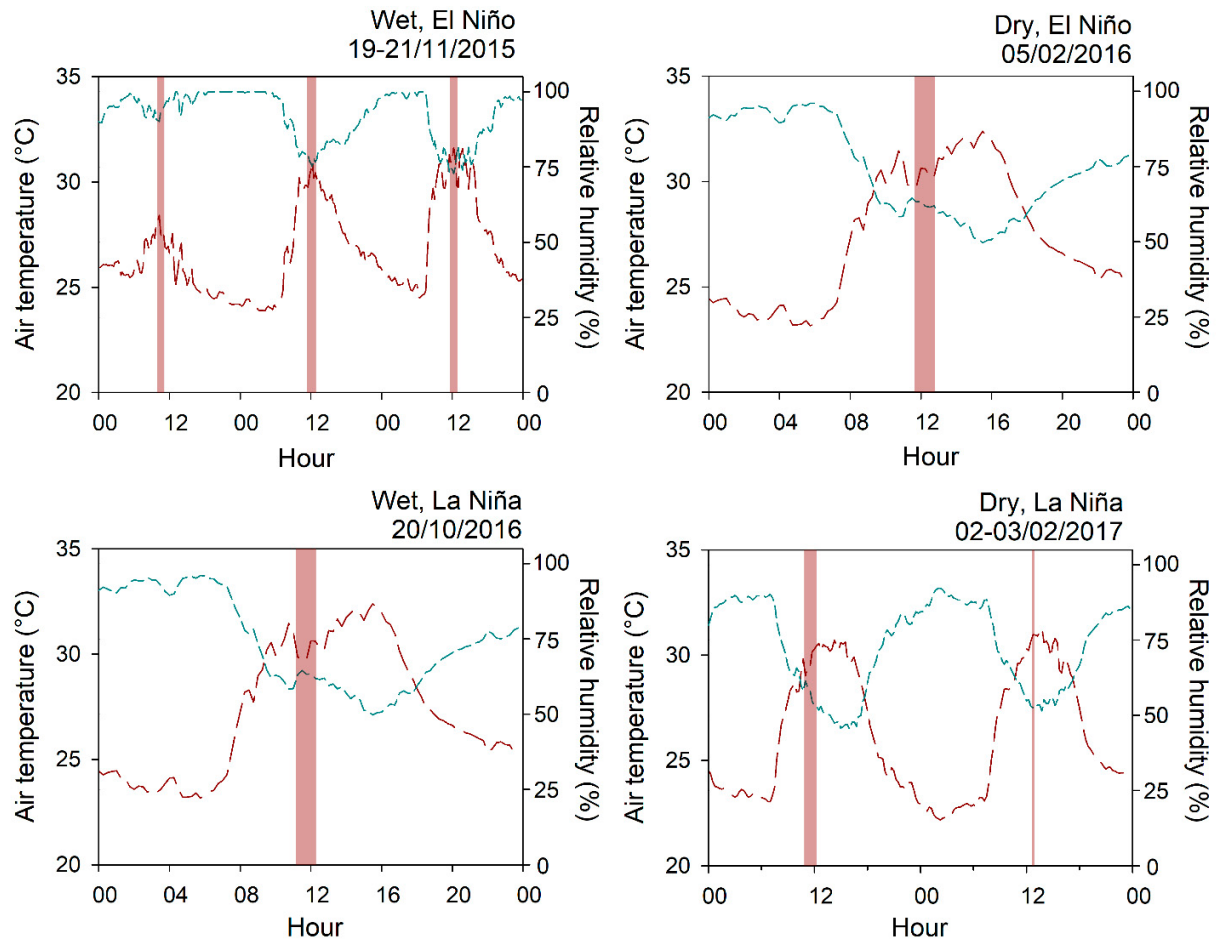


Figure S2. Mean values of temperature (red lines) and relative humidity (blue lines) during the days of data collection according to the meteorological station on the crane at Parque Natural Metropolitano, Panama. Vertical red bars represent the time of data collection.

Table S1. Number of trees (NT), thermal infrared images collected (TIR), and leaves selected (LS) to address the first hypothesis during the wet and dry season in contrasting ENSO years at the canopy of Parque Natural Metropolitano, Panama. NL: host trees without lianas; L: host trees with lianas.

ENSO	Season	Condition	Species											
			<i>A. excelsum</i>			<i>A. spraguei</i>			<i>C. elastica</i>			<i>L. seemannii</i>		
			NT	TIR	LS	NT	TIR	LS	NT	TIR	LS	NT	TIR	LS
El Niño	Wet	NL	4	14	64	2	3	15	4	10	54	2	6	30
El Niño	Wet	L	4	17	58	2	8	39	4	16	74	2	4	10
El Niño	Dry	NL	2	8	40	2	4	20	2	5	25	2	6	30
El Niño	Dry	L	2	6	30	2	7	34	2	6	30	2	7	34
La Niña	Wet	NL	2	5	25	---	---	---	2	5	25	2	3	19
La Niña	Wet	L	2	6	25	---	---	---	2	7	35	2	5	16
La Niña	Dry	NL	3	9	45	---	---	---	3	11	54	3	8	45
La Niña	Dry	L	3	6	30	---	---	---	2	7	34	2	5	25

Table S2. Number of host trees (HT), thermal infrared images collected (TIR), and leaves selected (LS) to address the second hypothesis during the wet and dry season in contrasting ENSO years at the canopy of Parque Natural Metropolitano, Panama.

ENSO	Season	Leaf type	Species											
			<i>A. excelsum</i>			<i>A. spraguei</i>			<i>C. elastica</i>			<i>L. seemannii</i>		
			HT	TIR	LS	HT	TIR	LS	HT	TIR	LS	HT	TIR	LS
El Niño	Wet	Tree	4	17	58	2	8	39	4	16	74	2	4	10
El Niño	Wet	Liana	4	25	119	2	9	45	4	14	69	2	5	25
El Niño	Dry	Tree	2	6	30	2	7	34	2	6	30	2	7	34
El Niño	Dry	Liana	2	7	35	---	---	---	2	6	30	2	7	35
La Niña	Wet	Tree	2	6	25	---	---	---	2	7	35	2	5	19
La Niña	Wet	Liana	2	6	30	---	---	---	2	7	35	2	5	26
La Niña	Dry	Tree	3	6	30	---	---	---	2	7	34	2	5	25
La Niña	Dry	Liana	3	5	25	---	---	---	2	7	33	2	5	25