

Supplementary material. Musschenga, Juiña & Cadena-Ortiz. 2022. Breeding biology of the Sparkling Violetear *Colibri coruscans* in Quito. *Revista Ecuatoriana de Ornitología*, 8(2), 51–66.

Appendix 1: Details of 39 Sparking Violetear *Colibri coruscans* nests in Quito and surrounding valleys, and 11 nests around Yanacocha reserve, northwest of Quito, found by the authors or reported on social media. Substrate = plant species or artificial substrate. Measures: HSP = height of substrate plant in m; HN = nest height in m; IDN = cup inner diameter in cm; ODN = cup outer diameter in cm; OH = cup outer height in cm; ID = cup inner depth in cm. Nest weight and materials weight in g.

	Substrate	Measures	Location	Weight and materials
N1	<i>Schefflera</i> sp.	HSP: 4.5 HN: 1.8	Entrance to veterinary clinic, San Rafael, southeast of Quito.	
N2	<i>Baccharis</i> sp.	HSP: 3 HN: 2 IDN: 3.7 ODN: 5.2 OH: 5 ID: 3	Abandoned terrain with native vegetation such as <i>Baccharis</i> sp. and introduced <i>Eucalyptus</i> sp., north Quito.	Synthetic fibers 1.64, <i>Taraxacum officinale</i> seeds 0.42, moss 0.37, vegetal fibers 0.13, vegetal remains 0.05, feathers 0.004 Total: 2.62
N3	<i>Eucalyptus</i> sp.	HSP: 15 HN: 8	Urban park, 8 m from trail, Rumipamba, north Quito.	
N4	<i>Ficus benjamina</i>	HSP: 2.5 HN: 1.4 IDN: 4 ODN: 5.3 OH: 3.9 ID: 2.5	Corner of large suburban garden, Cumbayá, northeast of Quito.	Moss 1.11, <i>T. officinale</i> seeds 0.91, vegetal fibers 0.61, dry <i>C. citrinus</i> flowers 0.47, hairs 0.06, feathers 0.10. Total weight: 3.26
N5	<i>Chionanthus pubescens</i>	HS P: 3 HN: 1.35 IDN: 4 ODN: 6.7 OH: 3.9 ID: 2	Same garden as N4, but 3 m from a house.	Dry <i>C. citrinus</i> flowers 1.93, vegetal fibers 0.42, seeds 0.37, leaves 0.09, vegetal remains 0.03 and hairs 0.01. Total: 2.85
N6	Engine of electric garage door.	HN: 2.5 ODN: 5 OH: 6.5 ID: 3	A not frequently used garage door of a building, in front of house N4.	
N7	<i>Callistemon citrinus</i>	HSP: 6.4 HN: 1.8	15 m from N4 and 25 m from N5.	

N8	<i>Schefflera</i> sp.	HSP: 3.5 HN: 2.5	Veranda of country house adjacent with grass field and <i>Alnus</i> sp., San Antonio, north of Quito.
N9	<i>Rosa</i> sp.	HSP: 2.1 HN: 1.2 IDN: 4.4 ODN: 6.8 OH: 5.3 ID: 3.5	Veranda of same country house as N8.
N10	<i>Bougainvillea</i> sp.	HSP: 3.5 HN: 3	10 m from N8.
N11	<i>Schefflera</i> sp.	HSP: 4 HN: 3.5	Veranda of same country house as N8.
N12	<i>Hedera helix</i>	HSP: 2 HN: 1.5 IDN: 4.2 ODN: 6.2 OH: 5.5 ID: 1	Veranda of same country house as N8.
N13	<i>Campsis radicans</i>	HSP: 5 HN: 2.7	10 m diagonal from N11.
N14	Between hot water tubes.	HN: 1.5	On terrace of a residential building, Cumbayá, northeast of Quito.
N15	Security bars before entrance door of apartment.	HN: 1.75 IDN: 4.5 ODN: 5.3 OH: 4.2 ID: 2	Apartment on third floor, Cumbayá.
N16	<i>Baccharis latifolia</i>	HN: 1.15	Infrequently used secondary road leading to Hacienda Rumiloma, northwest Quito.
N17	Clothesline.	HN: 2.32 IDN: 4.6 ODN: 6.7 OH: 6.9 ID: 2.8	c. 1 m in front of apartment on ground floor, residential area, north Quito.
N18	<i>Citharexylum ilicifolium</i>	HSP: 2.60 HN: 2 IDN: 3.8 ODN: 6.7	Quito Botanical Garden, 3 m from trail, north Quito.

N19	<i>Dracaena</i> sp.	OH: 3.8 ID: 3.1 HSP: 3.6 HN: 2.4 IDN: 5 ODN: 5.7 OH: 3.5 ID: 2.6	Small urban garden, north Quito.	
N20	<i>Schefflera</i> sp.	HSP: 2.39 HN: 1.85 OH: 6 HN: 1.4 IDN: 4 ODN: 5 OH: 8	Opposite veterinary clinic, San Rafael.	
N21	<i>Mimosa quitensis</i>		Quiet secondary road, Sangolquí.	
N22-30	<i>Cynodon dactylon</i> stolon hanging from the embankment towards the ground. Nest was reconstructed nine times on the same spot.		Embankment of quiet secondary road, Nayón.	
N31	<i>Baccharis</i> sp.	HN: 3	20 m from N30.	
N32	Hanging branch of unidentified plant.	IDN: 3.81 ODN: 6.24 OH: 7.35 ID: 2.86	Entrance road to Yanacocha reserve, northwest of Quito.	
N33	Light cord next to an outdoor restroom Yanacocha reserve, under a wooden roof.		50 m from N32, entrance to Yanacocha reserve.	
N34	<i>Baccharis</i> sp.	HSP: 3.9 HN: 2	Along quiet road bordering <i>Leonotis</i> sp. vegetation, La Armenia.	
N35	<i>Mimosa quitensis</i>		Same as N34.	
N36	<i>Baccharis</i> sp.	HSP: 3.7 HN: 1.33	Same as N34.	Deteriorated nest. Vegetal fibers 1.28, unidentified seeds 0.15, vegetal remains 0.06, spider web 0.04, human hair 0.01. Total: 1.54
N37	<i>Baccharis</i> sp.	HSP: 3.7 HN: 2.1	Same as N34.	
N38	<i>Mimosa quitensis</i>	HSP: c. 3.5 HN: c. 2	Same as N34.	

N39	Flowerpot holder under a roof.	HN: 1.8 IDN: 3.5 ODN: 6 OH: 2 ID: 4	Suburban garden, 1 m from house, Cumbayá.
N40	<i>Codiaeum variegatum</i>	HSP: 1.6 HN: 1.25 IDN: 4 ODN: 6.8 OH: 5.1 ID: 2.5	Entrance to house, suburban garden, under a roof, Cumbayá; collected by J. M. Carrión. Later N41 built on same location.
N41	<i>Codiaeum variegatum</i>	HSP: 1.6 HN: 1.3 IDN: 4.5 ODN: 8 OH: 7 ID: 2.5	Same as N40.
N42- N50	<i>Cynodon dactylon</i> (1 nest), Rosaceae (1 nest), Asteraceae (1 nest), and six unidentified plant species.		Embankment of road from Yanacocha reserve to Alambi.

Appendix 2: Data of 56 active broods (egg laying, incubation and/or dependent nestlings) of Sparkling Violetear *Colibri coruscans*: 45 in urban and suburban habitats in Quito and surrounding valleys, and 11 around Yanacocha reserve, northwest of Quito. Brood: consecutive broods in same nest (some nests were reused several times) are indicated with letters a-f. Clutch + interval: number of eggs and egg laying interval (days). Period + effort: activity period and sampling effort (h). Incubation: Incubation period (days). Eggs hatched + interval: number of hatched eggs, and hatching interval (days). Nest period: period nestlings stayed in the nest (days); days separated by a slash indicate differences between eggs and nestlings. Fledglings + interval: number of fledglings, and fledging interval (days); days separated by a slash indicate differences between eggs and nestlings. Some nests contained no active brood during the study period and are not included here.

Brood	Clutch + interval	Period + effort	Incubation	Eggs hatched + interval	Nest period	Fledglings + interval
N1	2	Feb 2018; 13 h 52 min		2 0	25/26	2 1
N2	Not known	Jan 2018	Nest seemingly abandoned during incubation.			
N4	2	Feb 2018; 8 h 13 min		2	23	1 (other nestling disappeared from the nest).
N5	2	Mar–Apr 2018; 34 h	At least 12.	1	25	1
N6	1	Mar–Apr 2018		1		1
N7	1	May 2018; 2 h 45 min	Egg depredated before second egg laid.	0		
N9	2	Mar 2018		2		0 (possibly depredated by <i>T. fusca</i>).
N10	2	Mar 2018		2		2
N11	2	Apr 2018		2		
N13	2	Mar 2018		2		2
N14		Apr 2018				
N15a		Sep 2018				
N15b		Jan 2019				
N15c	2	Apr 2019		2		2
N16	2	Jul 2018		2		0 Nest found with two dead nestlings c. 3 weeks old.
N17a	2 1–2 days	Nov–Dec 2018; 19 h 11 min	15	1	22	1
N17b	2	Mar–Apr 2019	At least 14.	1	21	1
N17c	2	Apr–Jun 2019	16	2	26/28	2
N17d	2	Oct–Nov 2019		2	27/29	2

N17e	2	Nov 2019–Jan 2020	c. 16	2	19/24	2	
N17f	2	Mar–Apr 2020		1	31	1	
N18	2	Jan 2019		not known			Not known.
N19	2	Jan–Feb 2019; 35 h		2			1 (other nestling depredated by <i>T. fuscater</i>).
N20	2	Jun 2019		2		2	
N21	2	Dec 2018; 5 h 45		2	21–23	2	
N22	2	Mar–Apr 2009		1			Fate of nestling unknown; nest was removed by unidentified person.
N23	2	May 2009		2			No information.
N24	2	Mar 2010		0			Nest abandoned after 1 week of incubation, possibly because of drought.
N25	2	Aug 2010		2			Not known.
N26	2	Sep 2010		0			Nest abandoned while incubating, possible because of disturbance by children.
N27	2	Nov 2010					Not monitored after incubation.
N28	1	May 2011					Observed under construction and laying of one egg, incubation started one day afterwards.
N29	2	Dec 2014 nest construction, Jan eggs					Nest abandoned due to clearing of vegetation. No information about hatching.
N30	2	Oct 2015 construction and incubation, Nov and Dec nestlings	At least 16 days.	2			1 (one nestling depredated by <i>T. fuscater</i> in Dec and nest abandoned).
N31	2	Nov 2015 nest construction and incubation					Nest possibly abandoned.
N32	2	Feb–Mar 2015	2	2	17–19 0		
N33	2	Feb–Mar 2015	Eggs depredated.				
N34	2	Nov–Dec 2019		2	c. 21	2	
N35	2	Dec 2019		2		2	
N36	2	Dec 2019	Max. 15	2			0 (6 days after hatching nest found partly destroyed; no trace of nestlings).

N37	2	Jan–Feb 2020		2		2
N38		Feb–Mar 2020	Female seen incubating			
N39a	2	Nest used twice before this brood in Jan 2020	eggs did not hatch.	0		0
N39b	2	Feb–Mar 2020	Unknown.	2	30	1 (one nestling found dead inside nest c. day 14 since hatching).
N40	2	Nov–Dec 2019	14	2	20/22	2
				0		2
N41a	2	Jan–Feb 2020	15	2	20/21	2
	1			1		1
N41b	2	Mar–Apr 2020	15	2	21/21	2
	1			1		2
N42–50	8 broods: 2 eggs 1 brood: 1 egg	May 2020				
