

Code	Country	Province	Locality	Lat	Long	Elev.	Date	Leg	Notes
AS-04-001	Costa Rica	Heredia	Santo Domingo de Heredia, @ INBio				5.1.2004	AEZShort	Floodlights
AS-04-002	Costa Rica	Cartago	Tapanti National Park, park road 3.5 km past visitor gate				6.1.2004	AEZShort & DJLebbin	Creek flowing down large rocks, w/ some seep habitat
AS-04-003	Costa Rica	Cartago	Tapanti National Park @ visitor/research station				6.1.2004	AEZShort	Lights (MV, + UV on car)
AS-04-004	Costa Rica	Cartago	Tapanti National Park, 10.1 km after scientific gate	9 41.459°N	83 45.699°W	1620m	7.1.2004	AEZShort & DJLebbin	Large waterfall over relatively flat rocks next to road
AS-04-005	Costa Rica	Cartago	Tapanti National park, Heliconias + roadside ditch, 9.6 km after scientific gate				7.1.2004	AEZShort	Small muddy roadside drainage area+heliconias
AS-04-006	Costa Rica	Cartago	Tapanti National Park, 9.3 km after scientific gate				7.1.2004	AEZShort & DJLebbin	Small stream coming into roadside ditch
AS-04-007	Costa Rica	Cartago	Tapanti National Park, 8.9 km after scientific gate	9 41.710°N	83 46.238°W	1623m	7.1.2004	AEZShort & DJLebbin	Small/med. Stream flowing into 2' deep pool
AS-04-008	Costa Rica	Cartago	Tapanti National Park, Heliconia flowers collected along park road				7.1.2004	AEZShort & DJLebbin	Heliconia Flowers
AS-04-009	Costa Rica	Cartago	Tapanti National Park, visitor cabinas outside main gate	9 45.671°N	83 47.087°W	1276m	7.1.2004	AEZShort	HG light behind cabinas (5:45-9:30)
AS-04-010	Costa Rica	Cartago	Tapanti National Park, waterfall/flat rock seep- vertical, 1.3 km from scientific gate	9 43.596°N	83 46.555°W	1621m	8.1.2004	AEZShort & DJLebbin	Vertical rock face waterfall
AS-04-011	Costa Rica	Cartago	Tapanti National park, 200m past site 010				8.1.2004	AEZShort & DJLebbin	Seep on left, pool on right
AS-04-012	Costa Rica	Cartago	Tapanti National Park, 2.5 km after scientific gate				8.1.2004	AEZShort & DJLebbin	Small stream/pools/seeps
AS-04-013	Costa Rica	Cartago	Tapanti National Park, 3.0 km after scientific gate	9 43.088°N	83 46.833°W	1604m	8.1.2004	AEZShort & DJLebbin	Wall seep "#2", wide, covered in moss
AS-04-014	Costa Rica	Cartago	Tapanti National Park, 3.6 km after scientific gate				8.1.2004	AEZShort & DJLebbin	Pools w/ vegetation, gravel bottom along road
AS-04-015	Costa Rica	Cartago	Tapanti National Park, 4.6 km after scientific gate				8.1.2004	AEZShort	Waterfall that crosses road, very swift
AS-04-016	Costa Rica	Cartago	Tapanti National Park 3.5 km after ranger station (same as 04-002)	9 42.544°N	83 46.726°W	1497m	8.1.2004	AEZShort & DJLebbin	Pool in small trickle by side of road, lots of detritus
AS-04-017	Costa Rica	Cartago	Tapanti National Park, 4.9 km after scientific gate	9 44.136°N	83 46.733°W	1399m	8.1.2004	AEZShort & DJLebbin	small pools in roadside drainage w/ detritus
AS-04-018	Costa Rica	Cartago	Tapanti National Park, 6.9 km after scientific gate				8.1.2004	AEZShort & DJLebbin	Roadside pools (some flow)
AS-04-019	Costa Rica	Cartago	Tapanti National Park, 7.6 km after scientific gate	9 41.684°N	83 46.705°W	1659m	8.1.2004	AEZShort & DJLebbin	Small rock seep on side of road, 2' wide
AS-04-020	Costa Rica	Cartago	Tapanti National Park, Picnic area at scientific gate (3.8 km from station)	9 44.088°N	83 46.762°W	1432m	8.1.2004	AEZShort & DJLebbin	HG light at picnic area
AS-04-021	Costa Rica	Cartago	Tapanti National Park, between scientific gate and dam				9.1.2004	AEZShort & DJLebbin	Bromeliads
AS-04-022	Costa Rica	Cartago	Tapanti National Park, between scientific gate and dam				9.1.2004	AEZShort	Sifting moss collected from logs/trees
AS-04-023	Costa Rica	Cartago	Tapanti National Park, Picnic area at scientific gate (3.8 km from station)	9 44.088°N	83 46.762°W	1432m	9.1.2004	AEZShort	Same as 04-020
AS-04-024	Costa Rica	Alajuela	Rio San Lorenzo, 6.4 km before Rio Los Lagos	10 13.729°N	84 34.249°W	740m	10.1.2004	AEZShort & DJLebbin	Swift large river, boulder/rock bottom, wall seeps, small tribs
AS-04-025	Costa Rica	Alajuela	Small stream 2.3 km before Rio San Lorenzo	10 13.513°N	84 33.317°W	785m	10.1.2004	AEZShort & DJLebbin	Swift small cree w/ lots of rocks, collected in pools out of flow
AS-04-026	Costa Rica	Guanacaste	11.5 km W of las Canas, ditch along sugar cane field	10 23.069°N	85 10.586°W	15m	10.1.2004	AEZShort & DJLebbin	HG light
AS-04-027	Costa Rica	Guanacaste	11.4 km SW of Rt. 1, on road to Palo Verde	10 25.609°N	85 15.769°W	35m	11.1.2004	AEZShort & DJLebbin	Roadside ditch, mud/clay bottom, little detritus
AS-04-028	Costa Rica	Guanacaste	12.4 km off Rt. 1, on way to Palo Verde				11.1.2004	AEZShort & DJLebbin	Stream crossing road, backwaters area on side, lots of dead leaves
AS-04-029	Costa Rica	Guanacaste	16.5 km past Rt. 1 on road to Palo Verde	10 24.900°N	85 17.671°W	25m	11.1.2004	AEZShort & DJLebbin	ditch w/ lily pads along road, lined w/ some vegetation
AS-04-030	Costa Rica	Guanacaste	Palo Verde National Park, near camp sites, margin of lagoon				11.1.2004	AEZShort & DJLebbin	Margin of lagoon, very muddy, shallow water
AS-04-031	Costa Rica	Guanacaste	Palo Verde National Park, by lagoon, between OTS and Palo Verde stations	10 20.684°N	85 20.657°W	23m	11.1.2004	AEZShort & DJLebbin	HG light at barbed wire fence by lagoon
AS-04-032	Costa Rica	Guanacaste	Palo Verde National Park, 1.9 km past ranger station				12.1.2004	AEZShort & DJLebbin	Pools along road, mud bottom, for cattle
AS-04-033	Costa Rica	Guanacaste	Palo Verde national park, 1.6 km past ranger station				12.1.2004	AEZShort & DJLebbin	culverted creek goes under road, swampy, stagnant water
AS-04-034	Costa Rica	Guanacaste	Rt. 18 to bridge over peninsula, 17.5 km from bridge to site				12.1.2004	AEZShort & DJLebbin	shallow but wide "wetland" area, dirt bottom
AS-04-035	Costa Rica	Guanacaste	Barra Honda National Park, La Palma trail by station, Quebrada la Palma				12.1.2004	AEZShort & DJLebbin	Small pools in streambed, substrate mostly gravel, some detritus
AS-04-036	Costa Rica	Guanacaste	Barra Honda National Park, Same as 04-035 but HG light above creek				12.1.2004	AEZShort & DJLebbin	HG light
AS-04-037	Costa Rica	Guanacaste	Roadside gravel stream running through culvert, 6.6 km from main road	10 9.445°N	85 22.793°W	50m	13.1.2004	AEZShort & DJLebbin	Gravel/pebbles w/ some detritus, no flow, pooled up stream
AS-04-038	Costa Rica	Guanacaste	Rock pools, ~2 km S. of Santa Rosa Entrance				13.1.2004	AEZShort	Depressions around rock pools, but not as good as June visit
AS-04-039	Costa Rica	Guanacaste	Rt. 4 of Upala, small stream	11 02.889°N	85 35.621°W	205m	13.1.2004	AEZShort	Small stream, mostly mud & leaves, reduced to deep pools
AS-04-040	Costa Rica	Guanacaste	Rio Animas (same locality as in June)	11 03.005°N	85 35.212°W	210m	13.1.2004	AEZShort & DJLebbin	River w/ volcanic rock bottom, small cascades, small isolated detrital backwaters
AS-04-041	Costa Rica	Alajuela	Road from Cano Negro to Los Chiles	10 56.583°N	84 45.226°W	57m	14.1.2004	AEZShort & DJLebbin	Roadside pools/swampy pasture, lots of emergent grass/veg.
AS-04-042	Costa Rica	Alajuela	Road from Los Chiles to Cano Negro, 11.5 km from Cano Negro, after bridge	10 58.577°N	84 44.406°W	50m	14.1.2004	AEZShort & DJLebbin	Large swales along road, water-filled tire-tracks
AS-04-043	Costa Rica	Alajuela	Cano Negro, a long dock path at end of town				14.1.2004	AEZShort & DJLebbin	Margin of lagoon/lake, emergent/floating vegetation
AS-04-044	Costa Rica	Alajuela	Cano Negro, lagoon/shallow area behind research center				14.1.2004	AEZShort & DJLebbin	Shallow backwaters of lagoon, some trees, mdu/veg substrate, dead leaves
AS-04-045	Costa Rica	Alajuela	Cano Negro, @ boat dock				14.1.2004	AEZShort	HG & UV lights on dock
AS-04-046	Costa Rica	Alajuela	21.2 km S. of road to Cano Negro, on Rt. 35	10 48.551°N	84 36.166°W	80m	15.1.2004	AEZShort	Vegetated pools/ditch along side of road
AS-04-047	Costa Rica	Alajuela	Cano Negro, lagoon/shallow area behind research center				15.1.2004	AEZShort & DJLebbin	Lagoon margin, slightly forested, etc. (same as before)
AS-04-048	Costa Rica	Alajuela	36.0 km past turnoff to Cano Negro, at bottom of hill after Police Checkpoint	10 41.680°N	84 32.988°W	100m	15.1.2004	AEZShort & DJLebbin	Vegetated pools on side of road & narrow stream draining field
AS-04-049	Costa Rica	Alajuela	Few km W. of Florencia	10 21.581°N	84 29.480°W	197m	15.1.2004	AEZShort & DJLebbin	Small Rio, cobble/stone substrate, w/ leaf detritus in parts
AS-04-050	Costa Rica	Alajuela	Roadside ditch/pools, lots of veg, 5 km before Bajos del Toro	10 11.915°N	84 20.397°W	2044m	15.1.2004	AEZShort & DJLebbin	roadside ditch, lots of veg
AS-04-051	Costa Rica	Alajuela	Pools along road by Rio Desague	10 13.964°N	84 16.936°W	1330m	15.1.2004	AEZShort & DJLebbin	Pools along road by bend after bridge
AS-04-052	Costa Rica	Alajuela	Catarata del Toro (on Rio Agrio), seeps at base of waterfall	10 15.252°N	84 16.285°W	1213m	15.1.2004	AEZShort	Rockseep w/ some moss/algal growth near huge waterfall
AS-04-053	Costa Rica	Alajuela	3.7 km N of Catarata del Toro, 4th creek after it	10 16.377°N	84 15.145°W	1017m	16.1.2004	AEZShort & DJLebbin	Swift creek, small pools along some margins, gravel substrate
AS-04-054	Costa Rica	Alajuela	14.9 km from?	10 16.059°N	84 10.993°W	878m	16.1.2004	AEZShort & DJLebbin	Pools at bottom of moss covered seep
AS-04-055	Costa Rica	Alajuela	stream (Rio Angel?) ca. 4.5 km N of Cinchana	10 15.542°N	84 10.545°W	871m	16.1.2004	AEZShort & DJLebbin	Wall seep w/ mud & moss
AS-04-056	Costa Rica	Alajuela	15.4 km after Poasito toward Heredia (Rio Tambor?)	10 7.314°N	84 9.812°W	960m	16.1.2004	AEZShort & DJLebbin	Rock seeps, waterfalls by road (lots of mud, moss of waterfalls)
AS-05-130	Costa Rica	Cartago	Tapanti National Park, ditch by Cabinas at park entrance	09 45.664°N	83 47.091°W	1200 m	8.1.2005	AEZS, JHH, APS	
AS-05-131a	Costa Rica	Cartago	Tapanti National Park, rock seep nr. Ranger station				8.1.2005	AEZS	
AS-05-131b	Costa Rica	Cartago	Tapanti National Park, mic. habitat along entrance road				8.1.2005	AEZS	
AS-05-132	Costa Rica	Cartago	Tapanti National Park, behind ranger station, deer carrion				8.1.2005	AEZS	
AS-05-133	Costa Rica	Cartago	Tapanti National Park, seep along entrance road, near entrance road-goes into culvert				8.1.2005	AEZS	
AS-05-134	Costa Rica	Cartago	Tapanti National Park, various places along entrance road and trail				8.1.2005	JHH	
AS-05-135	Costa Rica	Cartago	Tapanti National Park, HG-light behind cabinas at park entrance	09 45.664°N	83 47.091°W	1200 m	8.1.2005	AEZS, JHH, APS	
AS-05-136	Costa Rica	Cartago	Tapanti National Park, by and around cabinas				9.1.2005	AEZS, JHH, APS	
AS-05-137	Costa Rica	Cartago	Tapanti National Park, HG-light behind cabinas at park entrance	09 45.664°N	83 47.091°W	1200 m	9.1.2005	AEZS, JHH, APS	
AS-05-138	Costa Rica	Cartago	Tapanti National Park, Heliconia flowers along entrance road				10.1.2005	AEZS, JHH, APS	
AS-05-139	Costa Rica	Cartago	Tapanti National Park, Heliconia flowers along entrance road, cascade	09 44.842°N	83 46.895°W	4290'	10.1.2005	AEZS, JHH, APS	
AS-05-140	Costa Rica	Cartago	Tapanti National Park, Between ranger station and private gate	09 44.681°N	83 46.929°W	4223'	10.1.2005	AEZS, JHH, APS	
AS-05-141	Costa Rica	Cartago	Tapanti National Park, Same as AS-05-140 but pools/ditch along entrance road				10.1.2005	AEZS, JHH, APS	
AS-05-142	Costa Rica	Cartago	1.5 km before Tapanti National Park, pasture between road and rio Orosi	09 45.789°N	83 47.361°W	4091'	10.1.2005	AEZS, JHH, APS	
AS-05-143	Costa Rica	Cartago	Tapanti National Park, HG-light behind cabinas at park entrance	09 45.664°N	83 47.091°W	1200 m	10.1.2005	AEZS, JHH, APS	
AS-05-144	Costa Rica	Cartago	Tapanti National Park, rock seep				11.1.2005	JHH, APS	
AS-05-145	Costa Rica	Cartago	Tapanti National Park, after scientific gate, wall seep, same as AS-04-010				11.1.2005	JHH, APS	
AS-05-146	Costa Rica	Cartago	Tapanti National Park				11.1.2005	JHH, APS	
AS-05-147	Costa Rica	Cartago	Tapanti National Park, La Sendero la Catarata, by Rio Orosi, pools and wet boulders				11.1.2005	AEZS, JHH, APS	
AS-05-148	Costa Rica	Cartago	Tapanti National Park, HG-light behind cabinas at park entrance				11.1.2005	AEZS, JHH, APS	
AS-05-149	Costa Rica	Cartago	1.5 km before Tapanti National Park, pasture between road and rio Orosi	09 44.139°N	83 46.915°W	4130'	12.1.2005	AEZS, JHH, APS	
AS-05-150	Costa Rica	Cartago	1.5 km before Tapanti National Park, marsh by rio Orosi	09 45.848°N	83 47.503°W	4065'	12.1.2005	AEZS, JHH, APS	
AS-05-151	Costa Rica	Cartago	Tapanti National Park, human dung by cabinas	09 45.664°N	83 47.091°W	1200 m	12.1.2005	AEZS	
AS-05-152	Costa Rica	Cartago	Tapanti National Park, Pavillion at start of Sendero Oropendula, HG-light				12.1.2005	AEZS	

AS-05-153	Costa Rica	Heredia	Puerto Viejo, La Selva Biological Station, HG-light				14-17.I.2005	AEZS	
AS-06-041	Costa Rica	Cartago	Tapanti National Park, on cemet casing before scientific gate				23.v.2006	AEZS	
AS-06-042	Costa Rica	Cartago	Tapanti National Park, HG light by researcher cabins	09 45.678'N	83 47.087'W	1260m	23.v.2006	AEZS	
AS-06-043	Costa Rica	Cartago	ca. 1 km before entrance to Tapanti National Park, in pasture by Rio Orosi				24.v.2006	AEZS	
AS-06-044	Costa Rica	Cartago	ca. 1 km before entrance to Tapanti National Park, in small pools in riverbed				24.v.2006	AEZS	
AS-06-045	Costa Rica	Cartago	Along Rio Orosi at entrance to Tapanti National Park (see notes for details)				24.v.2006	AEZS	
AS-06-046	Costa Rica	Cartago	Small stream that crosses road to park immediatley before entrance				24.v.2006	AEZS	
AS-06-047	Costa Rica	Cartago					24.v.2006	AEZS	
AS-06-048	Costa Rica	Cartago	Tapanti National Park, HG-light at "Mirador" in picnic area				24.v.2006	AEZS	
AS-06-049	Costa Rica	Cartago	Tapanti National Park, in stream next to trail exit (a=pools, b=stream)				25.v.2006	AEZS	
AS-06-050	Costa Rica	Cartago	Tapanti National Park, in flowers along trail (a & b=heliconias, c=ginger)				25.v.2006	AEZS	
AS-06-051	Costa Rica	Cartago	Tapanti National Park, Fallen tree next to road, ca. 2 km past ranger station				25.v.2006	AEZS	
AS-06-052	Costa Rica	Cartago	Tapanti National Park, 2 FT's in clearing for rainguage	09 44.956'N	83' 46.935'W	1285m	25-29.v.2006	AEZS	
AS-06-053	Costa Rica	Cartago	Tapanti National Park, HG light by researcher cabins	09 45.678'N	83 47.087'W	1260m	25.v.2006	AEZS	
AS-06-054	Costa Rica	Cartago	Tapanti National Park, Rio Orosi at end of Catarata trail (see notes)				26.v.2006	AEZS	
AS-06-055	Costa Rica	Cartago	In pasture by Rio Orosi outside Tapanti, grassy/marshy area				27.v.2006	AEZS	
AS-06-056	Costa Rica	Cartago	In pasture by Rio Orosi- in cow dung				27.v.2006	AEZS	
AS-06-057	Costa Rica	Cartago	Small waterfall into a braid of the Orosi just outside park				27.v.2006	AEZS	
AS-06-058	Costa Rica	Cartago	Tapanti National Park, human dung near clearing for rainguage	09 44.956'N	83' 46.935'W	1285m	27-20.v.2006	AEZS	
AS-06-059	Costa Rica	Cartago	Tapanti National Park, flowers along entrance road				28.v.2006	AEZS	
AS-06-060	Costa Rica	Cartago					28.v.2006	AEZS	
AS-06-061	Costa Rica	Cartago	Tapanti National Park, HG light in pavilion at base of Oropedula trail				28.v.2006	AEZS	
AS-06-062	Costa Rica	Cartago	Tapanti National Park, HG light by researcher cabins	09 45.678'N	83 47.087'W	1260m	28.v.2006	AEZS	
AS-06-063	Costa Rica	Cartago	Tapanti National park, Nr. Road crossing @ Rio Villegas (see notes)				29.v.2006	AEZS	
AS-06-064	Costa Rica	Cartago	Tapanti National park, Nr. Road crossing @ Rio Villegas, seep				29.v.2006	AEZS	
AS-06-065	Costa Rica	Cartago	Tapanti National park, Nr. Road crossing @ Rio Villegas, wet cement wall				29.v.2006	AEZS	
AS-06-066	Costa Rica	Cartago	Tapanti National park, Building by Rio Villegas, HG light				29.v.2006	AEZS	
AS-06-067	Costa Rica	Alajuela	Catarata del Toro, ca. 7 km N of Bajos del Toro, HG light on lookout platform				30.v.2006	AEZS	
AS-06-068	Costa Rica	Alajuela	Catarata del Toro, ca. 7 km N of Bajos del Toro, seeps and pools at base of falls				31.v.2006	AEZS	
AS-06-069	Costa Rica	Alajuela	Catarata del Toro, ca. 7 km N of Bajos del Toro, small rock seep on trail				31.v.2006	AEZS	
AS-06-070	Costa Rica	Alajuela	Catarata del Toro, ca. 7 km N of Bajos del Toro, HG light on side of building				31.v.2006	AEZS	
AS-06-071	Costa Rica	Alajuela	Catarata del Toro, ca. 7 km N of Bajos del Toro, seeps and pools at base of falls				1.vi.2006	AEZS	
AS-06-072	Costa Rica	Alajuela	Rio Quebrada Gata, 8 km N of Bajos del Toro, detrital pools/seep				1.vi.2006	AEZS	
AS-06-073	Costa Rica	Alajuela	Along road near Quebrada Gata, ca. 8 km N of Bajos del Toro, rocks on road cut				1.vi.2006	AEZS	
AS-06-074	Costa Rica	Alajuela	Catarata del Toro, ca. 7 km N of Bajos del Toro, HG light on side of building				1.vi.2006	AEZS	