

Supplementary material

Temporal dynamics of allochthonous coarse particulate organic matter in a subtropical Atlantic rainforest Brazilian stream

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Table S1. Monthly means ($\text{g m}^{-2} \text{ month}^{-1} \pm \text{standard error}$) of input leaf biomass by species on the four compartments – vertical ($n = 90$), lateral ($n = 10$), terrestrial ($n = 10$) as well as for benthic stock ($n = 15$) – measured in Cachoeira Grande stream between August 2010 and August 2011

Species	Vertical	Lateral	Benthic	Terrestrial
<i>Aegiphila</i> sp.	0.01 ± 0.01	0.03 ± 0.03	0.02 ± 0.02	0.10 ± 0.06
<i>Alchornea glandulosa</i> Poepp. & Endl.	0.26 ± 0.11	1.13 ± 0.85	0.70 ± 0.36	0.34 ± 0.25
<i>Alchornea triplinervia</i> (Spreng.) Müll.Arg.	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
<i>Allophylus</i> cf. <i>guaraniticus</i>	0.04 ± 0.02	0.26 ± 0.23	0.11 ± 0.08	0.02 ± 0.01
<i>Allophylus edulis</i> (A.St.-Hil. <i>et al.</i>) Hieron. ex Niederl.	0.05 ± 0.03	0.25 ± 0.20	0.28 ± 0.16	0.03 ± 0.02
<i>Amaioua intermedia</i> Mart. ex Schult. & Schult.f.	0.00 ± 0.00	0.03 ± 0.03	0.04 ± 0.04	0.00 ± 0.00
<i>Annona sericea</i> Dunal	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.03 ± 0.03
<i>Annona</i> sp.	0.00 ± 0.00	0.06 ± 0.06	0.00 ± 0.00	0.04 ± 0.02
<i>Annona sylvatica</i> A.St.-Hil.	0.03 ± 0.03	2.06 ± 1.41	0.93 ± 0.35	0.37 ± 0.25
<i>Annona cacans</i> Warm.	0.01 ± 0.00	0.07 ± 0.07	0.00 ± 0.00	0.00 ± 0.00
<i>Aspidosperma</i> sp.	0.00 ± 0.00	0.03 ± 0.03	0.00 ± 0.00	0.11 ± 0.11
<i>Adiantum</i> sp.	0.00 ± 0.00	0.01 ± 0.01	0.00 ± 0.00	0.00 ± 0.00
<i>Bauhinia</i> cf. <i>forficata</i>	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
<i>Boehmeria caudata</i> Sw.	0.00 ± 0.00	0.02 ± 0.02	0.00 ± 0.00	0.01 ± 0.01
Bromeliaceae	0.02 ± 0.02	0.21 ± 0.19	0.12 ± 0.11	0.03 ± 0.03
<i>Cabralea canjerana</i> (Vell.) Mart.	0.00 ± 0.00	0.00 ± 0.00	0.02 ± 0.02	0.00 ± 0.00
<i>Calythranthes lucida</i> Mart. ex DC.	0.08 ± 0.05	1.26 ± 0.81	0.17 ± 0.12	0.30 ± 0.21
<i>Campomanesia</i> cf. <i>reitziana</i>	0.02 ± 0.01	0.02 ± 0.02	0.13 ± 0.09	0.02 ± 0.02
<i>Campomanesia</i> cf. <i>xanthocarpa</i>	0.00 ± 0.00	0.32 ± 0.24	0.18 ± 0.47	0.38 ± 0.29
<i>Casearia obliqua</i> Spreng.	0.29 ± 0.08	0.12 ± 0.12	0.02 ± 0.02	0.02 ± 0.02
<i>Casearia sylvestris</i> Sw.	0.33 ± 0.12	0.02 ± 0.02	0.00 ± 0.00	0.02 ± 0.02
<i>Cedrella fissilis</i> Vell.	0.06 ± 0.03	1.33 ± 0.87	1.25 ± 0.35	0.69 ± 0.40
<i>Chrysophyllum</i> sp.	0.01 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
<i>Chrysophyllum viride</i> Mart. & Eichler	0.23 ± 0.09	0.42 ± 0.33	0.37 ± 0.19	0.22 ± 0.14
<i>Clethra scabra</i> Pers.	0.07 ± 0.04	0.61 ± 0.41	0.10 ± 0.07	0.43 ± 0.21
<i>Colubrina glandulosa</i> Perkins	0.10 ± 0.04	0.17 ± 0.15	0.00 ± 0.00	0.69 ± 0.94
<i>Coussapoa microcarpa</i> (Schott) Rizzini	0.04 ± 0.03	0.18 ± 0.17	0.51 ± 0.27	0.25 ± 0.04
<i>Cupania vernalis</i> Cambess.	0.89 ± 0.16	3.84 ± 2.26	1.50 ± 0.52	1.66 ± 0.89
<i>Dahlstedtia</i> sp.	0.00 ± 0.00	0.11 ± 0.09	0.16 ± 0.10	0.11 ± 0.08
<i>Dalechampia</i> sp.	0.03 ± 0.03	1.08 ± 0.91	0.56 ± 0.07	0.53 ± 0.40
<i>Diatenopteryx sorbifolia</i> Radlk.	0.18 ± 0.07	0.33 ± 0.27	0.05 ± 0.03	0.49 ± 0.33
<i>Dioscorea scabra</i> Humb. & Bonpl. ex Willd.	0.02 ± 0.01	0.12 ± 0.09	0.08 ± 0.05	0.37 ± 0.34
<i>Dioscorea</i> sp.	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.03 ± 0.02

Species	Vertical	Lateral	Benthic	Terrestrial
<i>Duguetia</i> sp.	0.00 ± 0.00	0.00 ± 0.00	0.01 ± 0.01	0.00 ± 0.00
<i>Endlicheria paniculata</i> (Spreng.) J.F. Macbr.	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.02 ± 0.02
<i>Erythroxylum argentinum</i> O.E. Schulz	0.14 ± 0.04	0.11 ± 0.10	0.00 ± 0.00	1.17 ± 0.74
<i>Erythroxylum</i> sp.1	0.02 ± 0.02	0.02 ± 0.02	0.07 ± 0.06	0.06 ± 0.05
<i>Erythroxylum</i> sp.2	0.01 ± 0.01	0.08 ± 0.08	0.04 ± 0.04	0.37 ± 0.31
<i>Eugenia bacopari</i> D. Legrand	0.00 ± 0.00	0.02 ± 0.02	0.00 ± 0.00	0.00 ± 0.00
<i>Eugenia stigmata</i> DC.	0.00 ± 0.00	0.00 ± 0.00	0.04 ± 0.02	0.00 ± 0.00
<i>Ficus adhatodifolia</i> Schott ex Spreng.	0.15 ± 0.07	4.07 ± 3.05	1.70 ± 1.10	1.84 ± 1.20
<i>Ficus cestrifolia</i> Schott ex Spreng.	0.89 ± 0.18	6.80 ± 4.94	3.76 ± 1.88	1.25 ± 1.01
<i>Ficus eximia</i> Schott	1.28 ± 0.38	0.57 ± 0.50	1.22 ± 0.49	0.61 ± 0.28
<i>Guatteria australis</i> A. St.-Hil.	0.00 ± 0.00	0.74 ± 0.44	0.30 ± 0.21	0.08 ± 0.06
<i>Guatteria</i> sp.	0.01 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
<i>Handroanthus heptaphyllus</i> (Vell.) Mattos	0.14 ± 0.05	0.93 ± 0.93	0.48 ± 0.28	0.06 ± 0.06
<i>Hieronyma alchorneoides</i> Allemão	0.01 ± 0.01	0.00 ± 0.00	0.02 ± 0.02	0.00 ± 0.00
<i>Hirtella hebeclada</i> Moric. ex DC.	0.04 ± 0.03	0.09 ± 0.09	0.00 ± 0.00	0.03 ± 0.03
<i>Ilex</i> cf. <i>brevicuspis</i>	0.08 ± 0.03	0.03 ± 0.03	0.01 ± 0.01	0.03 ± 0.03
<i>Ilex</i> sp.	0.00 ± 0.00	0.12 ± 0.11	0.02 ± 0.01	0.03 ± 0.02
<i>Inga</i> cf. <i>vera</i>	0.04 ± 0.03	0.03 ± 0.03	0.00 ± 0.00	0.07 ± 0.07
<i>Inga marginata</i> Willd.	0.49 ± 0.14	0.02 ± 0.02	0.06 ± 0.05	0.00 ± 0.00
Lauraceae	0.03 ± 0.01	0.13 ± 0.06	0.01 ± 0.01	0.02 ± 0.02
<i>Leandra</i> sp.	0.01 ± 0.01	0.01 ± 0.01	0.00 ± 0.00	0.01 ± 0.01
<i>Luehea divaricata</i> Mart. & Zucc.	0.05 ± 0.02	0.00 ± 0.00	0.02 ± 0.08	0.02 ± 0.01
<i>Machaerium stipitatum</i> (DC.) Vogel	0.16 ± 0.05	0.00 ± 0.00	0.00 ± 0.00	0.01 ± 0.01
<i>Maclura tinctoria</i> (L.) D.Don ex Steud.	0.07 ± 0.04	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
<i>Magnolia ovata</i> (A.St.-Hil.) Spreng.	0.01 ± 0.01	2.91 ± 2.78	0.90 ± 0.67	0.19 ± 0.19
<i>Marliera</i> sp.	0.00 ± 0.00	0.07 ± 0.05	0.04 ± 0.03	0.06 ± 0.06
<i>Matayba elaeagnoides</i> Radlk.	0.00 ± 0.00	0.07 ± 0.07	0.00 ± 0.00	0.01 ± 0.01
<i>Matayba guianensis</i> Aubl.	0.12 ± 0.05	0.20 ± 0.20	0.03 ± 0.03	0.19 ± 0.12
<i>Miconia cabucu</i> Hoehne	0.00 ± 0.00	0.03 ± 0.03	0.00 ± 0.00	0.09 ± 0.09
<i>Miconia</i> cf. <i>cinerascens</i>	0.00 ± 0.00	0.00 ± 0.00	0.02 ± 0.01	0.00 ± 0.00
<i>Miconia cinnamomifolia</i> (DC.) Naudin	0.00 ± 0.00	0.32 ± 0.24	0.06 ± 0.06	0.38 ± 0.38
<i>Microgramma</i> cf. <i>vacinifolia</i>	0.06 ± 0.04	0.01 ± 0.01	0.00 ± 0.00	0.00 ± 0.00
<i>Mikania campanulata</i> Gardner	0.01 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	0.05 ± 0.05
<i>Mikania</i> sp.	0.01 ± 0.01	0.15 ± 0.15	0.80 ± 0.41	0.02 ± 0.02
<i>Molinedia</i> cf. <i>calodonta</i>	0.00 ± 0.00	0.08 ± 0.06	0.32 ± 0.20	0.01 ± 0.01

Species	Vertical	Lateral	Benthic	Terrestrial
<i>Mollinedia schottiana</i> (Spreng.) Perkins	0.00 ± 0.00	0.42 ± 0.42	0.13 ± 0.08	0.24 ± 0.18
<i>Myrcia</i> sp.	0.00 ± 0.00	0.30 ± 0.27	0.24 ± 0.13	0.16 ± 0.12
<i>Myrsine guianensis</i> (Aubl.) Kuntze	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
<i>Myrsine</i> sp.	0.00 ± 0.00	0.05 ± 0.04	0.00 ± 0.00	0.01 ± 0.01
Myrtaceae 3	0.03 ± 0.02	0.01 ± 0.01	0.00 ± 0.00	0.02 ± 0.02
Myrtaceae 4	0.05 ± 0.03	0.02 ± 0.02	0.00 ± 0.00	0.03 ± 0.03
Myrtaceae 5	0.00 ± 0.00	0.08 ± 0.08	0.00 ± 0.00	0.02 ± 0.02
Myrtaceae 6	0.00 ± 0.00	1.66 ± 1.63	0.24 ± 0.17	0.11 ± 0.11
<i>Nectandra lanceolata</i> Nees	0.03 ± 0.02	0.02 ± 0.02	0.00 ± 0.00	0.00 ± 0.00
<i>Nectandra oppositifolia</i> Ness	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
<i>Ocotea</i> cf. <i>pulchella</i>	0.01 ± 0.01	0.00 ± 0.00	0.02 ± 0.02	0.01 ± 0.01
<i>Ocotea</i> cf. <i>silvestris</i>	0.00 ± 0.00	0.88 ± 0.79	0.73 ± 0.33	0.53 ± 0.27
<i>Ocotea mandioccana</i> A.Quinet	0.17 ± 0.07	0.05 ± 0.05	0.05 ± 0.05	0.03 ± 0.02
<i>Ocotea</i> sp.1	0.00 ± 0.00	0.02 ± 0.02	0.00 ± 0.00	0.00 ± 0.00
<i>Ocotea</i> sp.2	0.00 ± 0.00	0.01 ± 0.01	0.00 ± 0.00	0.01 ± 0.01
<i>Ouratea parviflora</i> (A.DC.) Baill.	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.02 ± 0.02
<i>Passiflora</i> sp.	0.00 ± 0.00	0.13 ± 0.08	0.00 ± 0.00	0.01 ± 0.01
<i>Pausandra morisiana</i> (Casar.) Radlk.	0.37 ± 0.14	0.30 ± 0.26	0.07 ± 0.01	0.02 ± 0.01
<i>Pouteria salicifolia</i> (Spreng.) Radlk.	0.00 ± 0.00	0.47 ± 0.26	0.14 ± 0.07	0.23 ± 0.10
<i>Pera glabrata</i> (Schott) Poepp. ex Baill.	0.15 ± 0.07	0.02 ± 0.02	0.03 ± 0.03	0.00 ± 0.00
<i>Persea</i> sp.	0.01 ± 0.01	0.20 ± 0.17	0.05 ± 0.05	0.04 ± 0.03
<i>Piper aduncum</i> L.	0.00 ± 0.00	0.15 ± 0.11	0.02 ± 0.02	0.11 ± 0.07
<i>Piptocarpha</i> cf. <i>tomentosa</i>	0.00 ± 0.00	0.26 ± 0.22	0.00 ± 0.00	0.10 ± 0.07
Poaceae	0.00 ± 0.00	0.02 ± 0.02	0.00 ± 0.00	0.00 ± 0.00
<i>Posoqueria latifolia</i> (Rudge) Schult.	0.06 ± 0.03	0.00 ± 0.00	0.00 ± 0.00	0.21 ± 0.13
<i>Prunus myrtifolia</i> (L.) Urb.	0.01 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	0.02 ± 0.02
<i>Psidium cattleianum</i> Sabine	0.00 ± 0.00	0.00 ± 0.00	0.01 ± 0.01	0.01 ± 0.01
<i>Roupala brasiliensis</i> Klotzsch	0.02 ± 0.01	0.91 ± 0.43	0.33 ± 0.29	0.49 ± 0.21
Rubiaceae	0.00 ± 0.00	0.03 ± 0.02	0.00 ± 0.00	0.02 ± 0.02
<i>Rudgea</i> sp.1	0.00 ± 0.00	0.33 ± 0.27	0.05 ± 0.03	0.49 ± 0.33
<i>Rudgea</i> sp.2	0.00 ± 0.00	0.00 ± 0.00	0.05 ± 0.05	0.00 ± 0.00
<i>Sapium glandulosum</i> (L.) Morong	0.01 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	0.01 ± 0.01
<i>Schizolobium parahyba</i> (Vell.) Blake	6.79 ± 1.04	7.69 ± 5.61	1.65 ± 9.80	11.0 ± 6.85
<i>Sebastiania</i> sp.2	0.01 ± 0.01	0.00 ± 0.00	0.07 ± 0.06	0.03 ± 0.03
<i>Sebastiania</i> sp.1	0.17 ± 0.06	0.03 ± 0.03	0.00 ± 0.00	0.01 ± 0.01

Species	Vertical	Lateral	Benthic	Terrestrial
<i>Serjania</i> sp.	0.00 ± 0.00	0.02 ± 0.02	0.05 ± 0.04	0.01 ± 0.01
<i>Sloanea guianensis</i> (Aubl.) Benth.	0.00 ± 0.00	0.19 ± 0.16	0.33 ± 0.20	0.09 ± 0.07
<i>Smilax</i> sp.	0.00 ± 0.00	0.00 ± 0.00	0.04 ± 0.04	0.02 ± 0.02
Solanacea	0.00 ± 0.00	0.84 ± 0.73	0.04 ± 0.04	0.40 ± 0.18
<i>Solanum</i> cf. <i>mauritanum</i>	0.10 ± 0.05	0.08 ± 0.08	0.08 ± 0.07	0.05 ± 0.02
<i>Solanum</i> sp.	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.16	0.00 ± 0.00
<i>Sorocea bonplandii</i> (Baill.) W.C.Burger et al.	0.00 ± 0.00	0.04 ± 0.04	0.00 ± 0.00	0.00 ± 0.00
<i>Strychnus trinervis</i> (Vell.) Mart.	0.01 ± 0.01	0.08 ± 0.08	0.08 ± 0.07	0.05 ± 0.02
<i>Symplocos</i> sp.	0.00 ± 0.00	0.10 ± 0.09	0.07 ± 0.05	0.03 ± 0.03
<i>Tetrorchidium rubrivenium</i> Poepp.	0.23 ± 0.10	2.08 ± 1.22	0.26 ± 1.08	2.03 ± 0.89
<i>Tillandsia</i> sp.	0.00 ± 0.00	1.68 ± 1.20	1.21 ± 0.52	0.66 ± 0.42
<i>Trema micrantha</i> (L.) Blume	0.08 ± 0.04	0.39 ± 0.32	0.15 ± 0.08	0.22 ± 0.13
<i>Trichilia</i> cf. <i>claussoni</i>	0.03 ± 0.02	0.67 ± 0.58	0.18 ± 0.13	0.46 ± 0.34
<i>Vernonanthura discolor</i> (Spreng.) H.Rob.	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
<i>Virola bicuhyba</i> (Schott ex Spreng.) Warb.	0.51 ± 0.17	6.93 ± 5.49	1.65 ± 0.74	1.49 ± 1.34
<i>Vriesea</i> sp.	0.01 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
<i>Xylopia brasiliensis</i> Spreng.	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.08 ± 0.07
<i>Xylosma</i> sp.	0.01 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
<i>Zanthoxylum</i> sp.	0.00 ± 0.00	0.19 ± 0.19	0.00 ± 0.00	0.06 ± 0.05
Undetermined 1	0.06 ± 0.04	0.04 ± 0.03	0.00 ± 0.00	0.02 ± 0.01
Undetermined 2	0.02 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
Undetermined 3	0.00 ± 0.00	0.68 ± 0.65	0.49 ± 0.25	0.18 ± 0.15
Undetermined 4	0.20 ± 0.08	0.10 ± 0.10	0.04 ± 0.04	0.00 ± 0.00
Undetermined 5	0.00 ± 0.00	0.01 ± 0.01	0.05 ± 0.04	0.03 ± 0.02
Undetermined 6	0.05 ± 0.03	0.19 ± 0.12	0.93 ± 0.48	0.02 ± 0.02
Undetermined 7	0.00 ± 0.00	0.13 ± 0.11	0.03 ± 0.10	0.84 ± 0.41
Undetermined 8	0.01 ± 0.01	0.41 ± 0.29	0.08 ± 0.05	0.51 ± 0.28
Undetermined 9	0.01 ± 0.01	2.91 ± 2.78	0.90 ± 0.67	0.19 ± 0.19
Undetermined 10	0.03 ± 0.03	0.12 ± 0.12	0.03 ± 0.04	0.18 ± 0.13
Undetermined 11	0.04 ± 0.03	0.45 ± 0.32	0.30 ± 0.14	0.23 ± 0.17
Undetermined 12	0.00 ± 0.00	0.00 ± 0.00	0.32 ± 0.41	0.00 ± 0.00
Undetermined 13	0.01 ± 0.00	0.44 ± 0.44	0.13 ± 0.11	0.03 ± 0.02
Undetermined 14	0.00 ± 0.00	0.25 ± 0.24	0.01 ± 0.01	0.22 ± 0.19
Undetermined 15	0.00 ± 0.00	0.08 ± 0.08	0.00 ± 0.00	0.10 ± 0.09