SUPPLEMENTARY MATERIAL 1

to Zach, Horna, Leuschner and Zimmermann: "Patterns of wood carbon dioxide efflux across a 2,000-m elevation transect in an Andean moist forest"

S 1 Species list of the measured tree stems at 1,050, 1,890 and 3,050 m a.s.l. Some trees could not be determined to species level (indet). Given are diameters at breast height (DBH; cm) and tree height (h; m) as measured in August 2005. For each tree, the mean annual rate of stem CO_2 efflux (R_{Smean}; µmol CO_2 m^{-2} surface area s^{-1}) is the average over four measurement campaigns conducted between August 2005 and September 2006.

Species	Family	DBH	h	R_{Smean}
1,050m				
indet	Annonaceae	10.05	9.9	1.07
indet	Annonaceae	21.37	14.5	1.10
Schefflera sp.	Araliaceae	27.67	18.8	1.18
Pourouma cf.	Cecropiaceae	14.32	13.4	0.38
Alchornea sp.	Euphorbiaceae	8.75	13.3	0.52
indet	Lauraceae	13.66	12.3	0.66
indet	Lauraceae	17.07	11.9	0.62
Miconia punctata	Melastomataceae	9.80	14.0	0.66
Miconia punctata	Melastomataceae	11.93	10.5	1.04
indet	Melastomataceae	15.35	11.8	0.86
Inga sp.	Mimosaceae	16.34	17.8	0.74
indet	Mimosaceae	10.08	18.1	0.88
Ficus sp.	Moraceae	14.16	16.2	1.38
Ficus sp.	Moraceae	14.64	14.2	0.39
Ficus sp.	Moraceae	16.03	14.2	0.92
Ficus sp.	Moraceae	43.85	29.9	1.32
Virola cf.	Myristicaceae	14.17	15.0	0.40
indet	Myrtaceae	10.96	11.2	1.06
Chrysophyllum sp.	Sapotaceae	8.84	11.2	0.99
Pouteria cf.	Sapotaceae	20.79	16.8	1.36
Pouteria cf.	Sapotaceae	43.72	26.6	0.73

Species	Family	DBH	h	R_{Smean}
1,890 m				
Ilex amboroica	Aquifoliaceae	9.63	7.5	0.25
Schefflera sp.	Araliaceae	9.16	14.5	0.09
Clethra revoluta	Clethraceae	23.45	12.7	0.70
Hyeronima moritziana	Euphorbiaceae	9.52	13.7	0.29
Endlicheria oreocola	Lauraceae	20.80	10.0	0.34
Nectandra sp.	Lauraceae	11.64	12.4	1.30
Ocotea aciphylla	Lauraceae	10.21	10.5	0.78
Graffenrieda emarginata	Melastomataceae	24.91	17.4	0.37
Graffenrieda emarginata	Melastomataceae	26.11	16.5	0.56
Graffenrieda emarginata	Melastomataceae	26.47	19.8	0.34
Miconia punctata	Melastomataceae	10.62	14.0	0.77
Miconia punctata	Melastomataceae	12.00	7.1	0.66
Miconia punctata	Melastomataceae	14.45	12.5	0.52
Myrsine coriacea	Myrsinaceae	3.76	7.1	0.05
Ladenbergia oblongifolia	Rubiaceae	12.14	9.7	0.43
Palicourea sp.	Rubiaceae	3.02	3.7	0.14
Matayba inelegans	Sapindaceae	4.46	5.6	0.58
Matayba inelegans	Sapindaceae	8.17	8.3	1.11
Matayba inelegans	Sapindaceae	10.53	12.7	1.04
Micropholis guyanensis	Sapotaceae	8.35	7.8	0.47
3,050 m				
Ilex weberlingii	Aquifoliaceae	8.20	5.72	0.13
Hedyosmum sp.	Chloranthaceae	9.36	4.19	0.40
Clusia sp.1	Clusiaceae	17.67	5.80	0.25
Clusia sp.2	Clusiaceae	8.94	6.79	0.07
Weinmannia loxensis	Cunoniaceae	10.50	6.13	0.22
Cerotostema cf.	Ericaceae	3.60	3.74	0.19
indet	Ericaceae	15.60	6.22	0.06
Axinea sp.	Melastomataceae	8.99	4.80	0.31
Myrsine andina	Myrsinaceae	9.55	7.74	0.07
indet	Myrsinaceae	3.92	4.80	0.09
Monnina sp.	Polygalaceae	2.48	3.51	0.17
Styrax foveolaria	Styracaceae	12.06	3.43	0.25
Symplocos sp.	Symplocaceae	9.80	6.68	0.25