

Online Material

Appendix SI. Data set for leaf-litter nitrogen (N) and phosphorus (P) concentrations in woody plants compiled from the literature (see Appendix S2).

Species	Country	Latitude (deg.)	Longitude (deg.)	N (mg/g)	P (mg/g)	Sources
Shrub						
<i>Adina cordifolia</i>	India	27.33	83.11	13.6	1.1	Lal et al., 2001
<i>Artemisia tridentata</i>	USA	41.17	-115.9	13.9	2	Schlesinger et al., 1989
<i>Artemisia tridentata</i>	USA	36.9	-113.9	13.3	2.2	Schlesinger et al., 1989
<i>Artemisia tridentata</i>	USA	47.5	-116.1	14.3	2.3	Schlesinger et al., 1989
<i>Artemisia tridentata</i>	USA	38.9	-107	9		Shaw et al., 2001
<i>Artocarpus anisophyllus</i>	Malaysia	1.4	110.3	7.8	0.18	Hirobe et al., 2004
<i>Camellia japonica</i>	Japan	34.95	135.61	13		Ishikawa et al., 2007
<i>Ceanothus megacarpus</i>	USA	34.67	-119.7	6.5	0.37	Schlesinger, 1985
<i>Cercis canadensis</i>	USA	36.1	-79.4	11.3	0.5	Finzi et al., 2001
<i>Cercis canadensis</i>	USA	36	-79.01	11.3		Finzi et al., 2002
<i>Chrysanthemoides monilifera</i>	Australia	-32.85	151.45	6.4	0.6	Lindsay et al., 2005
<i>Cistus libanotis</i>	Spain	37.1	-6.2	4.1	0.42	Gallardo and Merino, 1999
<i>Cistus libanotis</i>	Spain	37.1	-6.2	4.1		Gallardo and Merino, 1999
<i>Cistus libanotis</i>	Spain	37.1	-6.2	4.1		Gallardot and Merino, 1992
<i>Clethra alnifolia</i>	USA	30.78	-82.14	6.1	0.2	Delucia and Schlesinger, 1995
<i>Clethra barbinervis</i>	Japan	34.95	135.61	7.6		Ishikawa et al., 2007
<i>Cornus alternifolia</i>	USA	42.63	-72.18	6.5	1.2	Lee et al., 2003
<i>Cornus kousa</i>	China	29.87	121.65	19.43	0.99	Huang et al., 2007
<i>Curatella americana</i>	USA	45.57	93.16	4.6	0.1	Montes and Medina, 1977
<i>Cyrilla racemiflora</i>	USA	30.78	-82.14	3.8	0.1	DeLucia and Schlesinger, 1995
<i>Dillenia suffruticosa</i>	Malaysia	1.4	110.3	8.4	0.19	Hirobe et al., 2004
<i>Drimys winteri</i>	Chile	-40.2	-73.43	8.7		Lusk et al., 2003
<i>Drimys winteri</i>	Chile	-40.2	-73.43	8.7		Lusk et al., 1999
<i>Elaeagnus crispa</i>	China	41.75	123.43	24.9		He et al., 1999
<i>Empetrum nigrum</i>	Sweden	68.37	18.81	6.8	0.94	Quested et al., 2003
<i>Encelia farinosa</i>	Mexico	29	-110.95	10.9	2.3	Martinez-Yrizar et al., 2007
<i>Eurya rubiginosa varattenuata</i>	China	29.87	121.65	8.06	0.25	Huang et al., 2007
<i>Gaylussacia</i>	USA	41.5	-71.52	9.8	0.83	Killingbeck et al., 1988
<i>Gutierrezia sarothrae</i>	USA	35.2	-111.65	6.03	0.29	Murphy et al., 1998
<i>Itea virginica</i>	USA	30.78	-82.14	5.7	0.2	Delucia and Schlesinger, 1995
<i>Larrea tridentata</i>	USA	32.28	-106.73	7		Lajtha, 1987
<i>Laurelia philippiana</i>	Chile	-40.65	-72.18	8.4	1.2	Lusk et al., 2003
<i>Laureliopsis philippiana</i>	Chile	-40.2	-73.43	15.6		Lusk et al., 2003
<i>Laureliopsis philippiana</i>	Chile	-40.2	-73.43	15.6		Lusk et al., 1999
<i>Leptospermum laevigatum</i>	Australia	-32.85	151.45	5.6	1.3	Lindsay et al., 2005
<i>Lonicera xylosteum</i>	Italy	58.47	26.63	10.3	0.72	Niinemets et al., 2005
<i>Lyonia ovalifolia</i>	India	29.25	79.35	8	0.8	Upadhyay et al., 1989
<i>Lyonia ovalifolia</i>	India	29.1	79.5	8	0.8	Upadhyay, 1993
<i>Macaranga peltata</i>	India	8.5	77.3	12.4	0.7	Sundarapandian and Swamy, 1999
<i>Maytenus boaria Mol</i>	Argentina	-41	-71.2	4.9		Satti et al., 2003
<i>Myrtus communis</i>	Italy	40.95	13.92	7.8		Fioretto et al., 2007
<i>Pentaphylloides floribunda</i>	USA	38.9	-107	18		Shaw et al., 2001
<i>Photinia glabra</i>	China	29.87	121.65	7.82	0.51	Huang et al., 2007
<i>Premna microphylla</i>	China	29.87	121.65	22.83	1.18	Huang et al., 2007
<i>Prunus pensylvanica</i>	USA	43.97	-71.1	12		Melillo et al., 1982
<i>Rhododendron arboreum</i>	India	25.5	91.9	5.9	0.3	Arunachalam et al., 1998
<i>Rhododendron arboreum</i>	India	25.56	91.94	5.9	0.3	Arunachalam et al., 1998
<i>Rhododendron arboreum</i>	India	29.25	79.35	7	0.6	Upadhyay et al., 1989
<i>Rhododendron arboreum</i>	India	30.2	79.5	7	0.6	Upadhyay, 1993
<i>Rhododendron arboreum</i>	India	29.4	79.5	9.8		Negi et al., 1993
<i>Rosa woodsii</i>	Canada	50.01	-115.01	11.5	1.9	Barry et al., 1989
<i>Salvia mellifera</i>	USA	34.67	-119.7	6.2	1.19	Schlesinger, 1985
<i>Sambucus nigra</i>	Spain	41.1	-5.87	38.1	3.07	Escudero et al., 1992
<i>Sapium insigne</i>	India	29.4	79.5	23.6		Negi et al., 1993
<i>Sapium sebiferum</i>	India	29.4	79.5	16.8		Negi et al., 1993

Appendix SI. Continued.

Species	Country	Latitude (deg.)	Longitude (deg.)	N (mg/g)	P (mg/g)	Sources
<i>Vaccinium corymbosum</i>	USA	42.63	-72.18	6.9	0.4	Lee et al., 2003
<i>Vaccinium uliginosum</i>	Sweden	68.37	18.81	7	2.66	Qusted et al., 2003
<i>Vaccinium vacillans</i>	USA	41.5	-71.52	7.93	0.76	Killingbeck et al., 1988
<i>Viburnum alnifolium</i>	USA	42.63	-72.18	8.1	0.9	Lee et al., 2003
<i>Viburnum cassinoides</i>	USA	42.63	-72.18	4.9	0.6	Lee et al., 2003
<i>Viburnum cotinifolium</i>	India	29.35	79.64	15	1	Ralhan and Singh, 1987
Evergreen Broadleaf						
<i>Acacia auriculiformis</i>	India	11.3	76	24.7	0.77	Jamaludheen and Mohan, 1999
<i>Acacia auriculiformis</i>	India	11.3	76	23.19	0.81	Jamaludheen and Mohan, 1999
<i>Acacia auriculiformis</i>	India	11.3	76	27.22	1.14	Jamaludheen and Mohan, 1999
<i>Acacia longifolia</i>	Australia	-32.85	151.45	13.4	0.3	Lindsay et al., 2005
<i>Acacia longifolia</i>	Portugal	40.2	-8.5	28	3.6	Pereira et al., 1998
<i>Acacia mangium</i>	China	23.01	113.3	7	0.26	Zeng et al., 2003
<i>Acer saccharum</i>	USA	43.97	-71.1	6		Melillo et al., 1982
<i>Acer spp.</i>	USA	43.97	-71.1	5.7	0.2	Gosz et al., 1973
<i>Aceroblongum</i>	India	29.4	79.5	16.6		Negi et al., 1993
<i>Acmena acuminarissima</i>	China	23.1	112.6	9	2.41	Li et al., 1998
<i>Aextoxicon punctatum</i>	Chile	-40.65	-72.18	6.2	1.2	Lusk et al., 2003
<i>Aextoxicon punctatum</i>	Chile	-40.2	-73.43	9.6		Lusk et al., 1999
<i>Ailanthus triphysa</i>	India	11.3	76	27.6	1.23	Jamaludheen and Mohan, 1999
<i>Ailanthus triphysa</i>	India	11.3	76	28.5	1.25	Jamaludheen and Mohan, 1999
<i>Ailanthus triphysa</i>	India	11.3	76	28.45	1.66	Jamaludheen and Mohan, 1999
<i>Ailanthus triphysa</i>	Chile	-40.2	-73.43	10.1		Lusk et al., 2003
<i>Amomyrtus luma</i>	Chile	-40.2	-73.43	10.1		Lusk et al., 1999
<i>Anthonotha fragrans</i>	Cameroon	5.24	8.99	17.7	0.74	Chuyong et al., 2000
<i>Aporosa lindleyana</i>	India	8.5	77.3	10.3	0.5	Sundarapandian and Swamy, 1999
<i>Aporosa yunanensis</i>	China	23.1	112.6	12.54	3.72	Li et al., 1998
<i>Aporosa yunanensis</i>	China	23.17	112.55	18.1		Tu et al., 1993
<i>Arbutus unedo</i>	Greece	40.5	23.5	7.2	0.13	Arianoutsou, 1993
<i>Arbutus unedo</i>	Italy	42.4	11.9	11.9	0.59	van Wesemael, 1993
<i>Artocarpus elasticus</i>	Malaysia	1.4	110.3	7.2	0.15	Hirobe et al., 2004
<i>Artocarpus heterophyllus</i>	India	11.3	76	21.5	1.1	Jamaludheen and Mohan, 1999
<i>Artocarpus hirsutus</i>	India	8.5	77.3	10.1	0.6	Sundarapandian and Swamy, 1999
<i>Artocarpus hirsutus</i>	India	11.3	76	17.3	1.32	Jamaludheen and Mohan, 1999
<i>Austrocedrus chilensis</i>	Argentina	-41	-71.3	4.8		Satti et al., 2003
<i>Azadirachta indica</i>	India	24.2	82	10	0.56	Singh et al., 1999
<i>Banksia grandis</i>	Australia	-32.7	116.05	2.6	0.1	O'Connell et al., 1978
<i>Banksia integrifolia</i>	Australia	-32.85	151.45	6	0.2	Lindsay et al., 2005
<i>Berlinia bracteosa</i>	Cameroon	5.24	8.99	18.4	0.91	Chuyong et al., 2000
<i>Buchanania lanzan</i>	India	27.33	83.11	14.4	0.7	Lal et al., 2001
<i>Byrsonima crassifolia</i>	USA	45.57	-93.16	5.7	0.2	Montes and Medina, 1977
<i>Camellia japonica</i>	Japan	34.95	135.62	13		Ishikawa et al., 2007
<i>Castanopsis chinensis</i> Hance	China	23.1	112.6	8.7	0.93	Li et al., 1998
<i>Castanopsis chinensis</i> Hance	China	23.17	112.55	14.3		Tu et al., 1993
<i>Castanopsis eyrei</i>	China	27.7	117.7	9.85	0.36	Lin et al., 1999
<i>Castanopsis fargesii</i>	China	29.87	121.65	13.07	0.42	Huang et al., 2007
<i>Castanopsis kawakamii</i>	China	26.19	117.43	7.5	0.63	Yang et al., 2004
<i>Castanopsis sclerophylla</i>	China	29.87	121.65	8.62	0.47	Huang et al., 2007
<i>Castanopsis sieboldii</i>	Japan	26.75	128.17	9.6	0.5	Xu et al., 2004
<i>Castanopsis sieboldii</i>	Japan	26.75	128.17	11.3	0.7	Xu et al., 2004
<i>Castanopsis wattii</i>	China	24.5	101	13	1.01	Liu et al., 2000
<i>Cinnamomum comphora</i>	China	29.87	121.65	11.04	0.85	Huang et al., 2007
<i>Cola rostrata</i>	Cameroon	5.24	8.99	14.2	0.68	Chuyong et al., 2000
<i>Cola verticillata</i>	Cameroon	5.24	8.99	13.1	0.59	Chuyong et al., 2000
<i>Coula edulis</i>	Cameroon	5.24	8.99	13.9	0.58	Chuyong et al., 2000
<i>Cryptocarya cancinna</i>	China	23.1	112.6	14.19	1.54	Li et al., 1998

Appendix SI. Continued.

Species	Country	Latitude (deg.)	Longitude (deg.)	N (mg/g)	P (mg/g)	Sources
<i>Cryptocarya cancinna</i>	China	23.17	112.55	16.4		Tu et al., 1993
<i>Cryptocarya chinensis</i>	China	23.17	112.55	12.3		Tu et al., 1993
<i>Cryptomeria japonica</i>	Japan	35.3	135.61	5.3	0.2	Osono et al., 2004
<i>Cryptomeria japonica</i>	Japan	35.17	136.95	8.01	0.78	Xue et al., 2001
<i>Cunninghamia lanceolata</i>	China	26.8	109.5	6	0.27	Wang et al. 2007
<i>Cyclobalanopsis glauca</i>	China	29.4	119.5	17.8	0.65	Zhao et al., 2006
<i>Cyclobalanopsis glauca</i>	China	29.87	121.65	9.2	0.49	Huang et al., 2007
<i>Cyclobalanopsis gracilis</i>	China	29.87	121.65	10.74	0.39	Huang et al., 2007
<i>Cyclobalanopsis myrsinaefolia</i>	China	29.87	121.65	12.86	0.59	Huang et al., 2007
<i>Cyclobalanopsis nubium</i>	China	29.87	121.65	12.02	0.48	Huang et al., 2007
<i>Daphniphyllum oldhamii</i>	China	29.87	121.65	13.03	0.49	Huang et al., 2007
<i>Didelotia africana</i>	Cameroon	5.24	8.99	19.3	0.82	Chuyong et al., 2000
<i>Diospyros gabunensis</i>	Cameroon	5.24	8.99	17.2	0.62	Chuyong et al., 2000
<i>Diospyros iturensis</i>	Cameroon	5.24	8.99	16.1	0.56	Chuyong et al., 2000
<i>Diospyros melanoxylon</i>	India	27.33	83.11	11.3	0.9	Lal et al., 2001
<i>Duguetia lucida</i>	Brazil	-3.41	-61.67	18.2	0.84	Scott et al., 1992
<i>Elaeocarpus decipiens</i>	China	29.87	121.65	10.66	0.76	Huang et al., 2007
<i>Embothrium cncrneum</i>	Chile	-40.2	-73.43	17.4		Lusk et al., 2003
<i>Embothrium coccineum</i>	Chile	-40.2	-73.43	17.4		Lusk et al., 1999
<i>Erythrophleum ivorense</i>	Cameroon	5.24	8.99	22.5	0.59	Chuyong et al., 2000
<i>Eucalyptus calophylla</i>	Australia	-32.7	116.05	3	0.1	O'Connell et al., 1978
<i>Eucalyptus camaldulensis</i>	India	30.5	77.9	11.2	1.1	Bahuguna et al., 1990
<i>Eucalyptus diversicolor</i>	Australia	-34.27	116.15	4.9	0.2	O'Connell and Menage, 1982
<i>Eucalyptus globulus</i>	Portugal	40.2	-8.5	21.1	6.4	Pereira et al., 1998
<i>Eucalyptus hybrid</i>	India	29.4	79.2	9.4	0.3	Singh et al., 1993
<i>Eucalyptus hybrid</i>	India	29.1	79.5	7.8	0.7	Joshi et al., 1999
<i>Eucalyptus marginata</i>	Australia	-32.7	116.05	3	0.1	O'Connell et al., 1978
<i>Eucalyptus regnans</i>	Australia	-37.01	144.9	6.7	0.3	Polglase and Attiwill, 1992
<i>Eucalyptus spp.</i>	India	30.9	75.82	10.4	0.92	Singh and Sharma, 2007
<i>Eucalyptus spp.</i>	China	24.5	117.85	1.41	1.71	Li et al., 2005
<i>Eucalyptus spp.</i>	China	24.5	117.86	3.89	4.87	Li et al., 2005
<i>Eucryphia cordifolia</i>	Chile	-40.65	-72.18	4.4	0.4	Lusk et al., 2003
<i>Eucryphia cordifolia</i>	Chile	-40.2	-73.43	9.9		Lusk et al., 2003
<i>Eucryphia cordifolia</i>	Chile	-40.2	-73.43	9.9		Lusk et al., 1999
<i>Garcinia oblongifolia</i>	China	23.1	112.6	11.87	2	Li et al., 1998
<i>Gironniera subaequali</i>	China	23.1	112.6	25.03	1.16	Li et al., 1998
<i>Grevillea robusta</i>	India	29.1	79.5	9	0.7	Joshi et al., 1999
<i>Helicia cochinchinensis</i>	China	29.87	121.65	10.15	0.48	Huang et al., 2007
<i>Hypodaphnis zenkeri</i>	Cameroon	5.24	8.99	23.2	0.69	Chuyong et al., 2000
<i>Ilex aquifolium</i>	Spain	41.1	-5.87	13.2	0.74	Escudero et al., 1992
<i>Ilex dipyrena</i>	India	29.4	79.5	19		Pandey and Singh, 1982
<i>Ilex dipyrena</i>	India	29.4	79.5	15.5		Negi et al., 1993
<i>Ilex kengii</i>	China	29.87	121.65	11.08	0.36	Huang et al., 2007
<i>Ilex pedunculosa</i>	Japan	34.95	135.61	6.4		Ishikawa et al., 2007
<i>Ilex pedunculosa</i>	Japan	34.95	135.62	6.4		Ishikawa et al., 2007
<i>Ilex verticillata</i>	USA	42.63	-72.18	15.5	0.9	Lee et al., 2003
<i>Lecythis corrugata</i>	Brazil	-3.41	-61.67	13.3	0.81	Scott et al., 1992
<i>Licania kunthiana</i>	Brazil	-3.41	-61.67	12.7	0.5	Scott et al., 1992
<i>Liquidambar styraciflua</i>	USA	36.1	-79.4	7.1	0.53	Finzi et al., 2001
<i>Liquidambar styraciflua</i>	USA	36	-79.01	7.1		Finzi et al., 2002
<i>Lithocarpus chintungensis</i>	China	24.5	101	12.9	0.74	Liu et al., 2000
<i>Lithocarpus glaber</i>	China	29.87	121.65	13.03	0.54	Huang et al., 2007
<i>Lithocarpus harlandii</i>	China	29.87	121.65	11.75	0.53	Huang et al., 2007
<i>Lithocarpus xylocarpus</i>	China	24.5	101	12.5	0.91	Liu et al., 2000
<i>Litsea coreana var sinensis</i>	China	29.87	121.65	14.39	0.96	Huang et al., 2007
<i>Litsea umbrosa</i>	India	29.4	79.5	19.9		Negi et al., 1993
<i>Lomatia hirsuta</i>	Argentina	-40.7	-71.3	10.3		Satti et al., 2003

Appendix SI. Continued.

Species	Country	Latitude (deg.)	Longitude (deg.)	N (mg/g)	P (mg/g)	Sources
<i>Luehea candida</i>	USA	45.8	91.9	9.9	0.8	Montes and Medina ,1977
<i>Machilus duthiei</i>	India	29.4	79.5	19.5		Negi et al., 1993
<i>Machilus leptophylla</i>	China	29.87	121.65	15.07	1.06	Huang et al., 2007
<i>Mallotus philippensis</i>	India	29.25	79.35	5.2	1.3	Upadhyay et al., 1989
<i>Mallotus philippensis</i>	India	29.1	79.5	5.2	1.3	Upadhyay, 1993
<i>Meliosma oldhamii</i>	China	29.87	121.65	11.5	1.15	Huang et al., 2007
<i>Mesua borneensis</i>	Malaysia	1.4	110.3	7.2	0.11	Hirobe et al., 2004
<i>Metrosideros polymorpha</i>	USA	19.33	-155.67	4.2	0.17	Vitousek et al., 1994
<i>Metrosideros polymorpha</i>	USA	19.33	-155.67	3.6	0.19	Vitousek et al., 1994
<i>Metrosideros polymorpha</i>	USA	19.33	-155.67	4.5	0.2	Vitousek et al., 1994
<i>Metrosideros polymorpha</i>	USA	19.33	-155.67	3.8	0.21	Vitousek et al., 1994
<i>Metrosideros polymorpha</i>	USA	19.33	-155.67	5.1	0.32	Vitousek et al., 1994
<i>Metrosideros spp.</i>	USA	19.5	-155.01	8.1	0.5	Rothstein et al., 2004
<i>Michelia macclurei</i>	China	26.8	109.5	8.2	1.6	Wang et al., 2007
<i>Microberlinia bisulcata</i>	Cameroon	5.24	8.99	20.3	0.62	Chuyong et al., 2000
<i>Myrceugenia planipes</i>	Chile	-40.2	-73.43	11.4		Lusk et al., 2003
<i>Myrceugenia planipes</i>	Chile	-40.2	-73.43	11.4		Lusk et al., 1999
<i>Myrica esculenta</i>	India	29.25	79.35	5.8	0.57	Upadhyay et al., 1989
<i>Myrica esculenta</i>	India	30.2	79.5	5.8	0.57	Upadhyay, 1993
<i>Myrica esculenta</i>	India	29.4	79.5	19.4		Negi et al., 1993
<i>Nectandra ambigens</i>	Mexico	18.58	-95.11	10.1	1.3	Martínez-Sánchez, 2003
<i>Neolitsea aurata</i> var. <i>chekiangensis</i>	China	29.87	121.65	9.01	0.58	Huang et al., 2007
<i>Nothofagus nitida</i>	Chile	-40.2	-73.43	11.6		Lusk et al., 2003
<i>Nothofagus betuloides</i>	Chile	-40.2	-73.43	11.9		Lusk et al., 2003
<i>Osmanthus cooperi</i>	China	29.87	121.65	7.5	0.76	Huang et al., 2007
<i>Ovidia pillo-pillo</i>	Chile	-40.2	-73.43	21.4		Lusk et al., 2003
<i>Ovidia pillo-pillo</i>	Chile	-40.2	-73.43	21.4		Lusk et al., 1999
<i>Paraserianthes falcataria</i>	India	11.3	76	30.6	0.92	Jamaludheen and Mohan, 1999
<i>Parashorea</i> spp.	Malaysian	4	115	8.09	0.32	Anderson et al., 1983
<i>Phoebe boumei</i>	China	26.66	118.16	7.61	0.45	Lin et al., 2006
<i>Phoebe sheareri</i>	China	29.87	121.65	16.03	1.09	Huang et al., 2007
<i>Poa ligularis</i>	Argentina	-38.75	-63.75	16	0.6	Moretto et al., 2001
<i>Pouteria hispida</i>	Brazil	-3.41	-61.67	11.6	0.67	Scott et al., 1992
<i>Pterocarpus marsupium</i>	India	8.5	77.3	15.5	0.5	Sundarapandian and Swamy, 1999
<i>Pterocarpus marsupium</i>	India	11.3	76	28.9	1.38	Jamaludheen and Mohan, 1999
<i>Quercus ilex</i>	Italy	40.95	13.92	11.1		Fioretto et al., 2007
<i>Randia cochinchinensis</i>	China	29.87	121.65	10.6	0.59	Huang et al., 2007
<i>Schima khasiana</i>	India	25.56	91.94	10.3	0.4	Arunachalam et al., 1998
<i>Schima</i> spp.	India	25.5	91.9	10.3	0.4	Arunachalam et al., 1998
<i>Schima superba</i>	China	29.87	121.65	6.86	0.25	Huang et al., 2007
<i>Schima superba</i>	China	30.25	120.17	12.21	0.27	Yu and Wu, 2004
<i>Schima superba</i>	China	26.66	118.16	10.89	0.28	Lin et al., 2006
<i>Schima superba</i>	China	23.1	112.6	11.84	1	Li et al., 1998
<i>Schima superba</i>	China	23.17	112.55	14.6		Tu et al., 1993
<i>Schima wallichii</i>	Japan	26.75	128.17	10.6	0.4	Xu et al., 2004
<i>Schima wallichii</i>	Japan	26.75	128.17	11.9	1.1	Xu et al., 2004
<i>Securinega virosa</i>	South Africa	-24.78	31.87	30.6	2.3	Fornara and Du Toit, 2008
<i>Shorea alba</i>	India	29.4	79.5	23.8		Negi et al., 1993
<i>Shorea robusta</i>	India	29.4	79.2	8.6	0.31	Singh et al., 1993
<i>Shorea robusta</i>	India	24.2	82	7.2	0.49	Singh et al., 1999
<i>Shorea robusta</i>	India	27.33	83.11	10.2	0.7	Lal et al., 2001
<i>Shorea robusta</i>	India	29.35	79.64	13	1	Ralhan and Singh, 1987
<i>Shorea robusta</i>	India	30.5	77.9	5.7	1.7	Bahuguna et al., 1990
<i>Shorea robusta</i>	India	29.25	79.35	9.9	2.8	Upadhyay et al., 1989
<i>Shorea robusta</i>	India	29.1	79.5	9.9	2.8	Upadhyay, 1993
<i>Shorea robusta</i>	India	29.4	79.5	11.9		Negi et al., 1993
<i>Staudtia stipitata</i>	Cameroon	5.24	8.99	14.8	0.55	Chuyong et al., 2000

Appendix SI. Continued.

Species	Country	Latitude (deg.)	Longitude (deg.)	N (mg/g)	P (mg/g)	Sources
<i>Strephonema pseudocola</i>	Cameroon	5.24	8.99	11.2	0.45	Chuyong et al., 2000
<i>Styrax suberifolia</i>	China	29.87	121.65	12.23	0.56	Huang et al., 2007
<i>Swida controversa</i>	Japan	35.3	135.61	13.5	0.7	Osono et al., 2004
<i>Symplocos anomala</i>	China	29.87	121.65	7.46	0.3	Huang et al., 2007
<i>Symplocos laurina</i>	China	29.87	121.65	8.47	0.45	Huang et al., 2007
<i>Symplocos ramosissima</i>	India	29.35	79.65	18	0.3	Ralhan and Singh, 1987
<i>Symplocos stellaris</i>	China	29.87	121.65	8.11	0.43	Huang et al., 2007
<i>Tectona grandis</i>	India	29.4	79.2	10.3	0.34	Singh et al., 1993
<i>Tectona grandis</i>	India	29.1	79.5	9.8	3.1	Joshi et al., 1999
<i>Tectona grandis</i>	India	29.4	79.5	17.9		Negi et al., 1993
<i>Tetraberlinia bifoliolata</i>	Cameroon	5.24	8.99	15.7	0.62	Chuyong et al., 2000
<i>Trachycarpus</i> spp.	Brazil	-2.51	-60.01	10.4	0.15	Tapia-Coral et al., 2005
<i>Vateria indica</i>	India	8.5	77.3	12.7	0.8	Sundarapandian and Swamy, 1999
Deciduous broadleaf						
<i>Acacia nigrescens</i>	South Africa	-24.78	31.87	50.5	4.4	Fornara and Du Toit, 2008
<i>Acer mono</i>	China	40.01	115.46	6.5	0.24	Wang et al., 2001
<i>Acer mono</i>	Japan	35.3	135.61	8.1	0.4	Osono et al., 2004
<i>Acer mono</i>	China	47.2	129	2	1.5	Wang and Wang, 1991
<i>Acer monspessulanum</i>	Spain	41.1	-5.87	19.8	1.14	Escudero et al., 1992
<i>Acer penslvanicum</i>	USA	42.63	-72.18	4.7	0.7	Lee et al., 2003
<i>Acer rubrum</i>	USA	36	-84.19	4.9	0.3	Grizzard et al., 1976
<i>Acer rubrum</i>	USA	36.1	-79.4	7.4	0.38	Finzi et al., 2001
<i>Acer rubrum</i>	USA	42.63	-72.18	6.1	0.7	Lee et al., 2003
<i>Acer rubrum</i>	USA	39.58	-82.55	7	0.7	Boerner, 1984
<i>Acer rubrum</i>	USA	43.97	-71.1	7		Melillo et al., 1982
<i>Acer rubrum</i>	USA	41.1	-73.73	8.2		Carreiro et al., 2000
<i>Acer rubrum</i>	USA	36	-79.01	7.4		Finzi et al., 2002
<i>Acer rufinerve</i>	Japan	35.3	135.61	5.8	0.29	Osono et al., 2004
<i>Acer saccharum</i>	USA	42.63	-72.18	8.5	1.9	Lee et al., 2003
<i>Aesculus indica</i>	India	29.4	79.5	11		Pandey and Singh, 1982
<i>Aesculus indica</i>	India	29.4	79.5	13.6		Negi et al., 1993
<i>Aesculus turbinata</i>	Japan	35.3	135.61	10.8	0.47	Osono et al., 2004
<i>Alnus cremastogyne</i>	China	26.8	109.5	14	0.34	Wang et al., 2007
<i>Alnus cremastogyne</i>	China	26.8	109.8	14.4	0.34	Wang et al., 2007
<i>Alnus glutinosa</i>	Italy	58.37	27.33	24.4	0.59	Niinemets et al., 2005
<i>Alnus glutinosa</i>	Portugal	40.2	-8.5	47.1	2.7	Pereira et al., 1998
<i>Alnus glutinosa</i>	China	41.77	123.43	21.4		He et al., 1999
<i>Alnus glutinosa</i>	China	41.75	123.43	22.8		He et al., 1999
<i>Alnus incana</i>	Italy	58.37	27.33	24.2	0.63	Niinemets et al., 2005
<i>Alnus incana</i>	Italy	58.47	26.63	24.6	0.88	Niinemets et al., 2005
<i>Alnus incana</i>	Sweden	60.5	16.3	31		Berg and Ekbohm, 1991
<i>Alnus nepalensis</i>	India	29.4	79.5	31.5		Negi et al., 1993
<i>Alnus tinctoria</i>	China	41.75	123.43	22.3		He et al., 1999
<i>Balsam poplar</i>	Canada	50.01	-115.01	5.8	1.3	Barry et al., 1989
<i>Bauhinia variegata</i>	India	29.4	79.5	17.6		Negi et al., 1993
<i>Betula</i> spp.	USA	63.88	-152.25	15	2.2	Flanagan and Cleve, 1983
<i>Betula pendula</i>	Italy	58.47	26.63	8.7	0.48	Niinemets et al., 2005
<i>Betula pendula</i>	Italy	58.37	27.33	9.9	0.64	Niinemets et al., 2005
<i>Betula alleghaniensis</i>	USA	43.97	-71.1	8.5	0.6	Gosz et al., 1973
<i>Betula alleghaniensis</i>	USA	42.63	-72.18	9	2.2	Lee et al., 2003
<i>Betula costata</i>	China	47.2	129	2.7	2	Wang and Wang, 1991
<i>Betula grossa</i>	Japan	35.3	135.61	12.4	0.84	Osono et al., 2004
<i>Betula nana</i>	Sweden	68.37	18.81	7.2	0.29	Quested et al., 2003
<i>Betula papyrifera</i>	USA	46.7	-92.5	7.2	2.9	Tappeiner et al., 1975
<i>Betula papyrifera</i>	USA	43.97	-71.1	9		Melillo et al., 1982
<i>Betula pendula</i>	Sweden	60.1	17.3	13.45	0.47	Johansson, 1986
<i>Betula pendula</i>	Sweden	60.2	16.2	7.5	0.54	Johansson, 1986

Appendix SI. Continued.

Species	Country	Latitude (deg.)	Longitude (deg.)	N (mg/g)	P (mg/g)	Sources
<i>Betula pendula</i>	Sweden	56.4	13.1	9.5	0.75	Johansson, 1986
<i>Betula pendula</i>	Sweden	60.5	16.3	7.6		Berg and Staaf, 1987
<i>Betula pendula</i>	Sweden	60.5	16.3	7.7		Berg and Ekbohm, 1991
<i>Betula platyphlla</i>	China	42.42	128.2	9.89	0.85	Li et al., 2007
<i>Betula populifolia</i>	USA	42.63	-72.18	11.2	1.7	Lee et al., 2003
<i>Betula pubescens</i>	Spain	41.1	-5.87	21.1	1.06	Escudero et al., 1992
<i>Brosimum lactescens</i>	Brazil	-3.41	-61.67	13	0.49	Scott et al., 1992
<i>Butea monosperma</i>	India	27.33	83.11	16.1	0.8	Lal et al., 2001
<i>Cambretum hereraense</i>	South Africa	-24.78	31.87	17.3	1.1	Fornara and Du Toit, 2008
<i>Careya arborea</i>	India	8.5	77.3	10.7	0.5	Sundarapandian and Swamy, 1999
<i>Carpinus betulus</i>	Poland	52.4	23.5	12.18	1.66	Dziadowiec, 1987
<i>Carpinus laxiflora</i>	Japan	35.3	135.61	10.3	0.59	Osono et al., 2004
<i>Carpinus viminea</i>	China	29.87	121.65	15.08	0.89	Huang et al., 2007
<i>Castanea crenata</i>	Japan	35.3	135.61	10.5	0.78	Osono et al., 2004
<i>Castanea dentata</i>	USA	42.63	-72.18	7.9	0.8	Lee et al., 2003
<i>Castanea mollissima</i>	China	29.87	121.65	15.42	0.34	Huang et al., 2007
<i>Celtis occidentalis</i>	USA	39.1	-96.6	9	1.1	Killingbeck, 1984
<i>Celtis tetrandrassp</i>	China	29.87	121.65	11.33	0.67	Huang et al., 2007
<i>Clethra barbinervis</i>	Japan	34.95	135.62	7.6		Ishikawa et al., 2007
<i>Cornus alba</i>	Canada	50.01	-115.01	7.8	0.8	Barry et al., 1989
<i>Cornus florida</i>	USA	36.1	-79.4	9.6	0.56	Finzi et al., 2001
<i>Cornus florida</i>	USA	41.1	-73.73	6.7		Carreiro et al., 2000
<i>Cornus florida</i>	USA	36	-79.01	9.6		Finzi et al., 2002
<i>Corylus avellana</i>	Italy	58.47	26.63	12.3	0.69	Niinemets et al., 2005
<i>Corylus cornuta</i>	USA	46.7	-92.5	0.76	3.8	Tappeiner et al., 1975
<i>Crataegus monogyna</i>	Spain	41.1	-5.87	16.2	1.5	Escudero et al., 1992
<i>Dalbergia sissoo</i>	India	24.2	82	11.7	0.54	Singh et al., 1999
<i>Dillenia pentagyna</i>	India	8.5	77.3	10.4	0.5	Sundarapandian and Swamy, 1999
<i>Dyera costulata</i>	Malaysia	1.4	110.3	9.3	0.2	Hirobe et al., 2004
<i>Engelhardtia colebrookiana</i>	India	29.4	79.5	15.8		Negi et al., 1993
<i>Engelhardtia roxburghiana</i>	China	23.1	112.6	13	1.78	Li et al., 1998
<i>Fagus crenata</i>	Japan	35.3	135.61	9.8	0.4	Osono et al., 2004
<i>Fagus grandifolia</i>	USA	39.58	-82.55	8.2	0.6	Boerner, 1984
<i>Fagus grandifolia</i>	USA	42.63	-72.18	9.5	1.1	Lee et al., 2003
<i>Fagus grandifolia</i>	USA	43.97	-71.1	9		Melillo et al., 1982
<i>Fagus spp.</i>	USA	43.97	-71.1	8.2	0.3	Gosz et al., 1973
<i>Fagus sylvatica</i>	Spain	41.1	-3.5	6.1		Pardo et al., 1997
<i>Fagus sylvatica</i>	Italy	41.1	12.3	9.8		Berg et al., 1996
<i>Fagus sylvatica</i>	Italy	41.1	12.3	10.5		Berg et al., 1996
<i>Fagus sylvatica</i>	Italy	41.1	12.3	16.8		Berg et al., 1996
<i>Faramaea occidentalis</i>	Mexico	18.58	-95.11	12.5	0.8	Martínez-Sánchez, 2003
<i>Fesruca thurberi</i>	USA	38.9	-107	10		Shaw et al., 2001
<i>Ficus brunneo-aurata</i>	Malaysia	1.4	110.3	9.6	0.27	Hirobe et al., 2004
<i>Ficus erector</i> var. <i>beecheana</i>	China	29.87	121.65	17.34	0.86	Huang et al., 2007
<i>Ficus palmata</i>	India	29.4	79.5	23.8		Negi et al., 1993
<i>Ficus racemosa</i>	India	27.33	83.11	8.9	0.9	Lal et al., 2001
<i>Ficus spp.</i>	Malaysian	4	115	10.2	0.72	Anderson et al., 1983
<i>Ficus tecolutensis</i>	Mexico	18.58	-95.11	8.6	0.6	Martínez-Sánchez, 2003
<i>Ficus yoponensis</i>	Mexico	18.58	-95.11	9.9	0.8	Martínez-Sánchez, 2003
<i>Frangula alnus</i>	Spain	41.1	-5.87	29.8	0.94	Escudero et al., 1992
<i>Fraxinus americana</i>	USA	42.63	-72.18	11	1.7	Lee et al., 2003
<i>Fraxinus angustifolia</i>	Spain	36.5	-5.6	9.3	0.53	Gallardo and Merino, 1993
<i>Fraxinus angustifolia</i>	Spain	37.1	-6.2	9.3	0.53	Gallardo and Merino, 1999
<i>Fraxinus angustifolia</i>	Spain	41.1	-5.87	23.3	1.87	Escudero et al., 1992
<i>Fraxinus angustifolia</i>	Spain	36.5	-5.6	9.3		Gallardot and Merino, 1992
<i>Fraxinus excelsior</i>	Italy	58.37	27.33	21.3	0.75	Niinemets et al., 2005
<i>Fraxinus excelsior</i>	Italy	58.47	26.63	18.2	0.82	Niinemets et al., 2005

Appendix SI. Continued.

Species	Country	Latitude (deg.)	Longitude (deg.)	N (mg/g)	P (mg/g)	Sources
<i>Fraxinus excelsior</i>	UK	54.3	-3.2	15.5		Bocock, 1964
<i>Fraxinus mandshurica</i>	China	45.39	127.54	7.24	1.8	Wu et al., 2005
<i>Fraxinus micrantha</i>	India	29.4	79.5	13		Negi et al.1993
<i>Fraxinus pensylvanica</i>	USA	39.1	-96.6	10	1.4	Killingbeck 1984
<i>Fraxinus</i> spp.	China	42.42	128.1	15.42	1.25	Li et al. 2007
<i>Grewia optiva</i>	India	29.4	79.5	25.4		Negi et al.1993
<i>Hamamelis virginiana</i>	USA	42.63	-72.18	6.1	0.8	Lee et al. 2003
<i>Hippophae rhamnoides</i>	China	41.75	123.43	22.7		He et al. 1999
<i>Hymenostegia afzelii</i>	Cameroon	5.24	8.99	19.9	0.69	Chuyong et al. 2000
<i>Irvingia gabonensis</i>	Cameroon	5.24	8.99	14.7	0.66	Chuyong et al. 2000
<i>Juglans mandshurica</i>	China	45.25	128.56	9.2		Cheng 2004
<i>Kalopanax septemlobus</i>	China	26.8	109.5	10.5	0.66	Wang et al. 2007
<i>Kalopanax septemlobus</i>	China	26.8	109.8	10.5	0.66	Wang et al. 2007
<i>Leucaena leucocephala</i>	India	11.3	76	47.4	0.6	Jamaludheen and Mohan 1999
<i>Leucaena leucocephala</i>	India	9.9	78.2	25.9	1.12	Ilangovan Paliwal 1996
<i>Leucaena leucocephala</i>	India	29.1	79.5	25.2	1.2	Joshi et al., 1999
<i>Leucaena leucocephala</i>	India	11.3	76	40.51	1.71	Jamaludheen and Mohan, 1999
<i>Leucaena leucocephala</i>	India	11.3	76	40.09	1.89	Jamaludheen and Mohan, 1999
<i>Leucothoe racemosa</i>	USA	30.78	-82.14	5.5	0.1	DeLucia and Schlesinger, 1995
<i>Lindens glauca</i>	China	29.87	121.65	16.26	0.87	Huang et al., 2007
<i>Lindens reflexa</i>	China	29.87	121.65	14.36	0.69	Huang et al., 2007
<i>Liquidambar formosana</i>	China	29.87	121.65	6.37	0.38	Huang et al., 2007
<i>Liriodendron tulipifera</i>	USA	36	-84.19	11.4	0.4	Grizzard et al., 1976
<i>Litsea cubeba</i>	China	29.87	121.65	25	0.69	Huang et al., 2007
<i>Lyonia lucida</i>	USA	30.78	-82.14	3.2	0.1	DeLucia and Schlesinger, 1995
<i>Macaranga gigantea</i>	Malaysia	1.4	110.3	10.2	0.23	Hirobe et al., 2004
<i>Macaranga hypoleuca</i>	Malaysia	1.4	110.3	7	0.12	Hirobe et al., 2004
<i>Macaranga hypoleuca</i>	Malaysia	1.4	110.3	7	0.16	Hirobe et al., 2004
<i>Macaranga kingii</i>	Malaysia	1.4	110.3	8	0.18	Hirobe et al., 2004
<i>Magnolia obovata</i>	Japan	35.3	135.61	8.8	0.24	Osono et al., 2004
<i>Mallotus japonicus</i>	Japan	35.3	135.61	10	0.36	Osono et al., 2004
<i>Maytenus senegalensis</i>	South Africa	-24.78	31.87	13.4	1.3	Fornara and Du Toit, 2008
<i>Melia azedarach</i>	India	30.9	75.82	14.2	1.32	Singh and Sharma, 2007
<i>Nothofagus antarctica</i>	Argentina	-40.93	-71.7	6.7		Satti et al., 2003
<i>Nothofagus betuloides</i>	Chile	-40.2	-73.43	11.9		Lusk et al., 1999
<i>Nothofagus dombeyi</i>	Argentina	-40.83	-71.55	8.2		Satti et al., 2003
<i>Nothofagus dombeyi</i> (Mirb) Oerst	Chile	-40.65	-72.18	5.5	0.6	Lusk et al., 2003
<i>Nothofagus nervosa</i>	Argentina	-40.1	-71.67	8.2		Satti et al., 2003
<i>Nothofagus nitida</i>	Chile	-40.2	-73.43	11.6		Lusk et al., 1999
<i>Nothofagus obliqua</i>	Argentina	-40.1	-71.62	8.5		Satti et al., 2003
<i>Nothofagus pumilio</i>	Argentina	-40.58	-71.1	5.2		Satti et al., 2003
<i>Nyssa sylvatica</i>	USA	36	-84.19	5.3	0.4	Grizzard et al., 1976
<i>Ormosia xylocarpa</i>	China	26.19	117.43	12.69	0.31	Lin et al., 2002
<i>Otesota</i>	Mexico	29	-110.95	16.6	2.4	Martinez-Yrizar et al., 2007
<i>Oxydendrum arboreum</i>	USA	36	-84.19	8.7	0.9	Grizzard et al., 1976
<i>Phellodendron amurense</i>	China	41.75	123.43	15.2		He et al., 1999
<i>Pongamia pinnata</i>	India	24.2	82	12.1	0.61	Singh et al., 1999
<i>Populus</i> spp.	USA	63.88	-152.25	13	2.2	Flanagan and Cleve, 1983
<i>Populus ciliata</i>	India	29.4	79.5	12.7		Negi et al., 1993
<i>Populus deltoides</i>	USA	33.41	-90.9	6.8	0.2	Baker and Blackmon, 1977
<i>Populus deltoides</i>	India	29.4	79.2	9.7	0.29	Singh et al., 1993
<i>Populus deltoides</i>	India	29.1	79.5	10.9	1.1	Joshi et al., 1999
<i>Populus deltoides</i>	India	29.4	79.5	16.5		Negi et al., 1993
<i>Populus grandidentata</i>	USA	42.63	-72.18	9.4	1	Lee et al., 2003
<i>Populus nigra</i>	Spain	41.1	-5.87	18.1	1.6	Escudero et al., 1992
<i>Populus nigra</i>	Portugal	40.2	-8.5	21.1	4	Pereira et al., 1998
<i>Populus nigra</i>	Portugal	40.2	-8.5	20		Pereira et al., 1998

Appendix SI. Continued.

Species	Country	Latitude (deg.)	Longitude (deg.)	N (mg/g)	P (mg/g)	Sources
<i>Populus</i> spp.	China	42.42	128.1	10.51	0.56	Li et al., 2007
<i>Populus</i> spp.	India	30.9	75.82	12.6	1.11	Singh and Sharma, 2007
<i>Populus</i> spp.	Canada	50.01	-115.01	6.4	1.2	Barry et al., 1989
<i>Populus tomentosa</i> Carr	China	35.3	112.8	9.91	1	Fan et al., 1992
<i>Populus tremula</i>	Italy	58.47	26.63	8.7	0.62	Niinemets et al., 2005
<i>Populus tremula</i>	Italy	58.37	27.33	10.7	0.63	Niinemets et al., 2005
<i>Populus tremula</i>	Sweden	60.5	16.3	6.8		Berg et al., 2003
<i>Populus tremuloides</i>	USA	41.6	-71.7	7	0.4	Killingbeck et al., 1990
<i>Populus tremuloides</i>	USA	41.6	-71.7	8	0.4	Killingbeck et al., 1990
<i>Populus tremuloides</i>	USA	41.6	-71.7	11	0.6	Killingbeck et al., 1990
<i>Populus tremuloides</i>	USA	41.6	-71.7	9	0.7	Killingbeck et al., 1990
<i>Populus tremuloides</i>	USA	41.6	-71.7	11	0.8	Killingbeck et al., 1990
<i>Populus tremuloides</i>	USA	33.4	90.9	7.4	1	Verry and Timmons, 1976
<i>Populus tremuloides</i>	USA	42.63	-72.18	11.6	1.2	Lee et al., 2003
<i>Praxinus</i> spp.	USA	19.5	-155.01	11.5	1	Rothstein et al., 2004
<i>Prunus cerasoides</i>	India	29.4	79.5	25		Negi et al., 1993
<i>Prunus serotina</i>	USA	42.63	-72.18	7.4	2.7	Lee et al., 2003
<i>Prunus serrulata</i>	China	29.87	121.65	10.17	0.64	Huang et al., 2007
<i>Prunus spinosa</i>	Spain	41.1	-5.87	20.7	1.37	Escudero et al., 1992
<i>Pterocarya rhoifolia</i>	Japan	35.3	135.61	16.8	0.79	Osono et al., 2004
<i>Pterostyrax hispida</i>	Japan	35.3	135.61	29	1.42	Osono et al., 2004
<i>Pyrus bourgaeana</i>	Spain	41.1	-5.87	17.2	1.16	Escudero et al., 1992
<i>Pyrus pashia</i>	India	29.4	79.5	20.4		Negi et al., 1993
<i>Quercus fabri</i>	China	29.87	121.65	14.56	0.33	Huang et al., 2007
<i>Quercus</i> spp.	UK	53.36	-4	11.1	0.39	Matthew et al., 2007
<i>Quercus</i> spp.	UK	53.36	-4	10.3	0.58	Matthew et al., 2007
<i>Quercus acutissima</i>	China	24.4	108.7	13.36	0.61	Liang et al., 1993
<i>Quercus alba</i>	USA	40.7	-72.9	5.1	0.3	Woodwell, 1974
<i>Quercus alba</i>	USA	39.58	-82.55	6	0.5	Boerner, 1984
<i>Quercus alba</i>	USA	36	-84.19	12.3	0.8	Grizzard et al., 1976
<i>Quercus alba</i>	USA	34.7	-83.05	8.9	1.5	Gottschalk et al., 1979
<i>Quercus alba</i>	USA	34.55	-83.55	8.9		Gottschalk et al., 1979
<i>Quercus canariensis</i>	Spain	37.1	-6.2	7	1.01	Gallardo and Merino, 1999
<i>Quercus canariensis</i>	Spain	36.5	-5.6	7	1.01	Gallardo and Merino, 1993
<i>Quercus canariensis</i>	Spain	37.1	-6.2	3.3		Gallardo and Merino, 1999
<i>Quercus canariensis</i>	Spain	36.5	-5.6	7		Gallardo and Merino, 1992
<i>Quercus cerris</i>	Italy	42.4	11.9	7.8	0.45	Van Wesemael, 1993
<i>Quercus coccifera</i>	Greece	40.5	23.5	7.3	0.2	Arianoutsou, 1993
<i>Quercus coccifera</i>	Spain	37.1	-6.2	9.1	0.3	Gallardo and Merino, 1999
<i>Quercus coccifera</i>	Spain	41.1	-5.87	11.9	0.58	Escudero et al., 1992
<i>Quercus coccifera</i>	Spain	37.1	-6.2	9.1		Gallardo and Merino, 1992
<i>Quercus coccinea</i>	USA	40.7	-72.9	4.5	0.1	Woodwell, 1974
<i>Quercus crispula</i>	Japan	35.3	135.61	7.9	0.37	Osono et al., 2004
<i>Quercus cuspidata</i>	Japan	35.17	136.95	12.36	0.33	Xue et al., 2001
<i>Quercus dealbata</i>	India	25.5	91.9	8.9	0.6	Arunachalam et al., 1998
<i>Quercus dealbata</i>	India	25.56	91.94	8.9	0.6	Arunachalam et al., 1998
<i>Quercus fagifera</i>	Spain	41.1	-5.87	19.1	1.26	Escudero et al., 1992
<i>Quercus floribunda</i>	India	29.4	79.5	9.4	0.7	Upadhyay, 1990
<i>Quercus floribunda</i>	India	29.1	79.5	9.7	1.2	Upadhyay, 1990
<i>Quercus floribunda</i>	India	29.4	79.5	10.7		Upadhyay, 1990
<i>Quercus floribunda</i>	India	29.4	79.5	17.9		Negi et al., 1993
<i>Quercus glauca</i>	India	29.25	79.35	9.4	0.7	Upadhyay et al., 1989
<i>Quercus glauca</i>	India	29.4	79.5	9.4	0.7	Upadhyay, 1990
<i>Quercus griffithii</i>	India	25.56	91.94	7.3	0.5	Arunachalam et al., 1998
<i>Quercus lanuginosa</i>	India	29.25	79.35	13.2	1.2	Upadhyay et al., 1989
<i>Quercus lanuginosa</i>	India	29.1	79.5	13.2	1.2	Upadhyay, 1990
<i>Quercus lanuginosa</i>	India	29.4	79.5	18.3		Negi et al., 1993

Appendix SI. Continued.

Species	Country	Latitude (deg.)	Longitude (deg.)	N (mg/g)	P (mg/g)	Sources
<i>Quercus leucotrichophora</i>	India	29.35	79.65	15	1.1	Ralhan and Singh, 1987
<i>Quercus leucotrichophora</i>	India	29.25	79.35	11.5	2.2	Upadhyay et al., 1989
<i>Quercus leucotrichophora</i>	India	29.1	79.5	11.5	2.2	Upadhyay, 1990
<i>Quercus leucotrichophora</i>	India	29.4	79.5	9.7		Pandey and Singh, 1982
<i>Quercus leucotrichophora</i>	India	29.4	79.5	15.6		Negi et al., 1993
<i>Quercus liaotungensis</i>	China	40.01	115.46	8.57	0.38	Wang et al., 2001
<i>Quercus liaotungensis</i>	China	41.77	123.43	7.6		He et al., 1999
<i>Quercus liaotungensis</i>	China	41.75	123.43	9		He et al., 1999
<i>Quercus lusitanica</i>	Spain	36.5	-5.6	9.1	0.3	Gallardo and Merino, 1993
<i>Quercus lusitanica</i>	Spain	37.1	-6.2	9.1	0.3	Gallardo and Merino, 1999
<i>Quercus lusitanica</i>	Spain	36.5	-5.6	9.1		Gallardo and Merino, 1992
<i>Quercus macrocarpa</i>	USA	39.1	-96.6	10	1.4	Killingbeck, 1984
<i>Quercus mongolia</i>	China	47.2	129	1	1	Wang and Wang, 1991
<i>Quercus mongolica</i> var. <i>grosseserratus</i>	Japan	44.3	142.2	7.7	0.13	Hardiwinoto et al., 1991
<i>Quercus muhlenbergii</i>	USA	39.1	-96.6	10	1.5	Killingbeck, 1984
<i>Quercus petraea</i>	England	54.32	3	13		Carlisle et al., 1966
<i>Quercus petraea</i>	UK	54.3	-3.2	7.7		Bocock, 1964
<i>Quercus prinus</i>	USA	36	-84.19	7.9	0.3	Grizzard et al., 1976
<i>Quercus prinus</i>	USA	39.58	-82.55	7.4	0.5	Boerner, 1984
<i>Quercus pubescens</i>	Italy	43.2	11.4	14.2	0.68	Cotrufo et al., 1999
<i>Quercus pubescens</i>	Italy	43.2	11.4	13.8	1.69	Cotrufo et al., 1999
<i>Quercus pyrenaica</i>	Spain	36.5	-5.6	9.3	0.59	Gallardo and Merino, 1993
<i>Quercus pyrenaica</i>	Spain	37.1	-6.2	9.3	0.59	Gallardo and Merino, 1999
<i>Quercus pyrenaica</i>	Spain	40.32	-6.7	14	0.6	Gallardo et al., 1999
<i>Quercus pyrenaica</i>	Spain	40.32	-6.7	10.1	0.7	Gallardo et al., 1999
<i>Quercus pyrenaica</i>	Spain	40.5	-6.5	10.6	0.7	Martin et al., 1997
<i>Quercus pyrenaica</i>	Spain	40.5	-6.5	11.6	0.8	Martin et al., 1997
<i>Quercus pyrenaica</i>	Spain	40.32	-6.7	15	0.9	Gallardo et al., 1999
<i>Quercus pyrenaica</i>	Spain	40.5	-6.5	13.4	1.1	Martin et al., 1997
<i>Quercus pyrenaica</i>	Spain	40.5	-6.5	14.4	1.1	Martin et al., 1997
<i>Quercus pyrenaica</i>	Spain	40.32	-6.7	13.1	1.2	Gallardo et al., 1999
<i>Quercus pyrenaica</i>	Spain	41.1	-5.87	18.5	1.3	Escudero et al., 1992
<i>Quercus pyrenaica</i>	Spain	41.1	3.5	8.4		Pardo et al., 1997
<i>Quercus pyrenaica</i>	Spain	36.5	-5.6	9.3		Gallardo and Merino, 1992
<i>Quercus robur</i>	UK	53.36	-4	9.5	0.41	Matthew et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	12.2	0.43	Matthew et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	10.8	0.44	Matthew et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	8.7	0.46	Matthew et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	10.3	0.46	Matthew et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	9.8	0.52	Matthew et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	10	0.53	Matthew et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	13	0.53	Matthew et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	10.5	0.61	Matthew et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	12	0.64	Matthew et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	11.2	0.65	Matthew et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	11.6	0.68	Matthew et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	10.6	0.73	Matthew et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	12	0.87	Matthew et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	17.8	1.1	Matthew et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	12.7	1.2	Matthew et al., 2007
<i>Quercus robur</i>	Poland	52.4	23.5	11.2	1.22	Dziadowiec, 1987
<i>Quercus robur</i>	UK	53.36	-4	12.8	0.49	Matthew et al., 2007
<i>Quercus rotundifolia</i>	Spain	41.1	-5.87	12.6	0.74	Escudero et al., 1992
<i>Quercus rubra</i>	USA	36	-84.19	10.9	0.7	Grizzard et al., 1976
<i>Quercus rubra</i>	USA	42.63	-72.18	8.3	1	Lee et al., 2003
<i>Quercus rubra</i>	USA	41.1	-73.73	9.1		Carreiro et al., 2000
<i>Quercus semecarpifolia</i>	India	29.4	79.5	10.1		Rawat and Singh, 1995

Appendix SI. Continued.

Species	Country	Latitude (deg.)	Longitude (deg.)	N (mg/g)	P (mg/g)	Sources
<i>Quercus serrata</i>	Japan	34.95	135.61	7.8		Ishikawa et al., 2007
<i>Quercus serrata</i>	Japan	34.95	135.62	7.8		Ishikawa et al., 2007
<i>Quercus robur</i>	UK	53.36	-4	9.3	0.66	Matthew et al., 2007
<i>Quercus</i> spp.	USA	41.5	71.52	17.76	1.43	Killingbeck et al., 1998
<i>Quercus suber</i>	Spain	36.5	-5.6	8.1	0.58	Gallardo and Merino, 1993
<i>Quercus suber</i>	Spain	37.1	-6.2	8.1	0.58	Gallardo and Merino, 1999
<i>Quercus suber</i>	Italy	42.4	11.9	15.73	0.62	Van Wesemael, 1993
<i>Quercus suber</i>	Spain	41.1	-5.87	16.8	1.28	Escudero et al., 1992
<i>Quercus suber</i>	Spain	37.1	-6.2	8.1		Gallardo and Merino, 1992
<i>Quercus variabilis</i>	China	40	116.3	7.2	0.2	Hu et al., 1986
<i>Quercus florihunda</i>	India	29.25	79.35	9.7	1.2	Upadhyay et al., 1989
<i>Robinia pseudoacacia</i>	China	41.75	123.43	14.3		He et al., 1999
<i>Salix atrocinerea</i>	Spain	36.5	-5.6	7.3	1.38	Gallardo and Merino, 1993
<i>Salix atrocinerea</i>	Spain	37.1	-6.2	7.3	1.38	Gallardo and Merino, 1999
<i>Salix atrocinerea</i>	Spain	41.1	-5.87	18	1.99	Escudero et al., 1992
<i>Salix atrocinerea</i>	Spain	36.5	-5.6	7.3		Gallardo and Merino, 1992
<i>Sassafras tzumu</i>	China	29.87	121.65	14.21	0.64	Huang et al., 2007
<i>Sophora japonica</i>	China	41.77	123.43	16.8		He et al., 1999
<i>Sophora japonica</i>	China	41.75	123.43	16.3		He et al., 1999
<i>Syzygium cumini</i>	India	27.33	-83.11	10	0.4	Lal et al., 2001
<i>Terminalia paniculata</i>	India	8.5	77.3	9.8	0.5	Sundarapandian and Swamy, 1999
<i>Tetraberlinia moreliana</i>	Cameroon	5.24	8.99	18.1	0.71	Chuyong et al., 2000
<i>Tetragastris panamensis</i>	Brazil	-3.41	-61.67	9.63	0.52	Scott et al., 1992
<i>Tilia amurensis</i>	China	47.2	129	2.4	1.2	Wang and Wang, 1991
<i>Tilia cordata</i>	Poland	52.4	23.5	14.7	1.55	Dziadowiec, 1987
<i>Tilia mandshurica</i>	China	40.01	115.46	9.27	0.36	Wang et al., 2001
<i>Tilia mandshurica</i>	China	47.2	129	2.5	1.5	Wang and Wang, 1991
<i>Tilia mongolica</i>	China	40.01	115.46	7.75	0.62	Wang et al., 2001
<i>Trichospermum galeottii</i>	Mexico	18.58	-95.11	7.1	0.4	Martínez-Sánchez, 2003
<i>Tsoongiodendron odorum</i>	China	23.1	112.6	17.46	3.1	Li et al., 1998
<i>Ulmus rubra</i>	USA	39.1	-96.6	14	1.6	Killingbeck, 1984
<i>Weinmannia trichosperma</i>	Chile	-40.2	-73.43	9		Lusk et al., 1999
<i>Weinmannia trichosperma</i>	Chile	-40.2	-73.43	9		Lusk et al., 2003
<i>Xanthophyllum flavescens</i>	India	8.5	77.3	14.3	0.6	Sundarapandian and Swamy, 1999
<i>zellkova schneideriana</i>	China	29.87	121.65	11.17	0.63	Huang et al., 2007
Coniferous						
<i>Abies alba</i>	Italy	41.1	12.3	12.3		Berg et al., 1996
<i>Abies alba</i>	Italy	41.1	12.3	13.2		Berg et al., 1996
<i>Abies sachalinensis</i>	Japan	44.3	142.2	7.3		Hardiwinoto et al., 1991
<i>Araucaria araucana</i>	Argentina	-39.6	-71.37	2.8		Satti et al., 2003
<i>Casuarina equisetifolia</i>	India	19.3	84.9	9.9	0.32	Misra and Nisanka, 1997
<i>Casuarina equisetifolia</i>	India	11.3	76	15.9	0.67	Jamaludheen and Mohan, 1999
<i>Casuarina equisetifolia</i>	China	24.6	118.9	9.43	0.72	Tan, 2003
<i>Casuarina equisetifolia</i>	India	11.3	76	22.54	0.95	Jamaludheen and Mohan, 1999
<i>Casuarina equisetifolia</i>	India	11.3	76	18.66	1.53	Jamaludheen and Mohan, 1999
<i>Cedrus deodara</i>	India	29.4	79.5	9.3		Pandey and Singh, 1982
<i>Cunninghamia lanceolata</i>	China	26.8	109.8	6	0.27	Wang et al., 2007
<i>Cunninghamia lanceolata</i>	China	26.19	117.43	6.8	0.37	Yang et al., 2004
<i>Cunninghamia lanceolata</i>	China	26.66	118.16	6.19	0.48	Lin et al., 2006
<i>Cunninghamia lanceolata</i>	China	26.4	117.7	30.2		Zhou, 2005
<i>Cunninghamia lanceolata</i>	China	26.8	109.8	9.2		Tian and Zhao, 1989
<i>Cunninghamia lanceolata</i>	China	24.26	106.32	9.96	0.43	Liang, 1993
<i>Cunninghamia lanceolata</i>	China	26.4	117.7	38.1		Zhou, 2005
<i>Cupressus torulosa</i>	India	29.4	79.5	8.3		Pandey and Singh, 1982
<i>Fitzroya cupressoides</i>	Argentina	-41.37	-71.75	3.8		Satti et al., 2003
<i>Fokienia hodginsi</i>	China	26.2	117.45	9.74	0.59	Lin et al., 2005
<i>Juniperus monosperma</i>	USA	35.2	-111.65	9.15	0.78	Murphy et al., 1998

Appendix SI. Continued.

Species	Country	Latitude (deg.)	Longitude (deg.)	N (mg/g)	P (mg/g)	Sources
<i>Larix gmelini</i>	China	45.39	127.56	7.87	1.55	Zhang et al., 2006
<i>Larix gmelinii</i>	China	45.25	128.56	7.9		Cheng, 2004
<i>Picea abies</i>	Poland	51.25	18.1	8.4	0.6	Przybyl et al., 2008
<i>Picea abies</i>	Sweden	63.1	14.3	4		Berg et al., 2000
<i>Picea abies</i>	Finland	60	27	4		Mikola, 1955
<i>Picea abies</i>	Sweden	58.3	15.5	4.5		Berg et al., 2000
<i>Picea abies</i>	Sweden	56.4	13.1	5		Berg et al., 2000
<i>Picea abies</i>	Sweden	58.1	13.2	5.1		Berg et al., 2000
<i>Picea abies</i>	Sweden	58.3	13.4	5.1		Berg et al., 2000
<i>Picea abies</i>	Sweden	59.3	17.2	5.3		Berg et al., 2000
<i>Picea abies</i>	Sweden	56.4	13.2	5.4		Berg et al., 2000
<i>Picea abies</i>	Sweden	60.2	16.2	5.4		Berg et al., 2000
<i>Picea abies</i>	Sweden	59.5	16.3	5.4		Berg et al., 2000
<i>Picea abies</i>	Sweden	56.3	14.4	5.5		Berg et al., 2000
<i>Picea abies</i>	Sweden	66.2	20	5.7		Berg et al., 2000
<i>Picea abies</i>	Sweden	59.1	15.4	5.8		Berg et al., 2000
<i>Picea abies</i>	Sweden	59.1	15.4	5.8		Johansson, 1984
<i>Picea abies</i>	Sweden	60.6	16	6.1		Berg et al., 2000
<i>Picea abies</i>	Sweden	60.2	16.2	6.3		Berg et al., 2000
<i>Picea abies</i>	Sweden	60.1	17.3	10		Berg et al., 2000
<i>Picea glehnii</i>	Japan	44.3	142.2	6.3		Hardiwinoto et al., 1991
<i>Pinus contorta</i>	Sweden	60.55	13.73	3.98	0.34	Berg and Lundmark, 1987
<i>Pinus contorta</i>	Sweden	60.6	13.6	3.7	0.46	Berg and Lundmark, 1987
<i>Pinus contorta</i>	Sweden	60.6	13.7	3.7	0.46	Berg and Lundmark, 1987
<i>Pinus contorta</i>	Sweden	60.3	13.4	3.4		Berg et al., 1991
<i>Pinus contorta</i>	Sweden	60.4	13.4	3.7		Berg et al., 1991
<i>Pinus contorta</i>	Sweden	60.4	13.4	3.8		Berg et al., 1991
<i>Pinus contorta</i>	Sweden	60.3	13.4	4		Berg et al., 1991
<i>Pinus contorta</i>	Sweden	60.4	13.3	4.2		Berg et al., 1991
<i>Pinus contorta</i>	Sweden	60.58	13.56	4.35		Berg and Lundmark, 1987
<i>Pinus contorta</i>	Sweden	59.4	14.3	5		Berg et al., 1991
<i>Pinus contorta</i>	Sweden	59.73	14.55	5.1		Berg and Lundmark, 1987
<i>Pinus densiflora</i>	Japan	34.95	135.61	3.8		Ishikawa et al., 2007
<i>Pinus densiflora</i>	Japan	34.95	135.62	3.8		Ishikawa et al., 2007
<i>Pinus echinata</i>	USA	36	-84.19	5.1	0.4	Grizzard et al., 1976
<i>Pinus edulis</i>	USA	35.2	-111.65	5.9	1.72	Murphy et al., 1998
<i>Pinus halepensis</i>	Spain	41.1	-5.87	10.5	0.57	Escudero et al., 1992
<i>Pinus jeffreyi</i>	USA	47.5	-116.1	10.2	1.1	Schlesinger et al., 1989
<i>Pinus kesiya</i>	India	25.5	91.9	9.8	0.5	Arunachalam et al., 1998
<i>Pinus koraiensis</i>	China	47.2	129	1.4	0.6	Wang and Wang, 1991
<i>Pinus koraiensis</i>	China	45.39	127.54	8	0.62	Ding et al., 1986
<i>Pinus massoniana</i>	China	24.4	108.7	5.64	0.24	Liang et al., 1993
<i>Pinus massoniana</i>	China	23.75	105.01	8.78	0.32	Tian and Lin, 1995
<i>Pinus massoniana</i>	China	23.75	105.01	8.95	0.39	Tian and Lin, 1995
<i>Pinus massoniana</i>	China	23.01	113.3	4.83	0.4	Zeng et al., 2003
<i>Pinus massoniana</i>	China	23.75	105.01	9.37	0.46	Tian and Lin, 1995
<i>Pinus massoniana</i>	China	23.75	105.01	13.44	0.79	Tian and Lin, 1995
<i>Pinus massoniana</i>	China	23.17	112.55	5.37	0.17	Mo et al., 2001
<i>Pinus monophylla</i>	USA	41.17	-115.9	9.7	1.7	Schlesinger et al., 1989
<i>Pinus monophylla</i>	USA	47.5	-116.1	11.7	1.8	Schlesinger et al., 1989
<i>Pinus pinaster</i>	Italy	42.4	11.9	5.7	0.15	Van Wesemael, 1993
<i>Pinus pinaster</i>	Spain	41.1	-5.87	9.6	0.69	Escudero et al., 1992
<i>Pinus pinea</i>	Spain	41.1	-5.87	9.9	0.85	Escudero et al., 1992
<i>Pinus pinea</i>	Italy	39.4	16.6	6.2		Fioretto et al., 1998
<i>Pinus ponderosa</i>	USA	35.2	-111.65	7.15	0.64	Murphy et al., 1998
<i>Pinus ponderosa</i>	USA	47.5	-116.1	11.8	1.5	Schlesinger et al., 1989
<i>Pinus resinosa</i>	USA	46.7	-92.5	5	1	Tappeiner et al., 1975

Appendix SI. Continued.

Species	Country	Latitude (deg.)	Longitude (deg.)	N (mg/g)	P (mg/g)	Sources
<i>Pinus rigida</i>	USA	40.7	-72.9	3.4	0.1	Woodwell, 1974
<i>Pinus roxburghii</i>	India	29.25	79.35	6.7	0.5	Upadhyay et al., 1989
<i>Pinus roxburghii</i>	India	29.1	79.5	6.7	0.5	Upadhyay, 1993
<i>Pinus roxburghii</i>	India	29.1	79.5	6.3	0.6	Joshi et al., 1999
<i>Pinus roxburghii</i>	India	29.35	79.65	10	0.9	Ralhan and Singh, 1987
<i>Pinus roxburghii</i>	India	29.4	79.5	10.2		Negi et al., 1993
<i>Pinus sylvestris</i>	Sweden	64.35	19.76	5		Näsholm, 1994
<i>Pinus sylvestris</i>	Sweden	59.5	17.3	3.8	0.19	Johansson, 1994
<i>Pinus sylvestris</i>	Sweden	65.8	20.6	3	0.2	Johansson, 1994
<i>Pinus sylvestris</i>	Sweden	58.1	13.3	3.8	0.2	Johansson, 1994
<i>Pinus sylvestris</i>	Sweden	65.8	20.6	2.9	0.21	Johansson, 1994
<i>Pinus sylvestris</i>	Sweden	66.5	20.2	3.2	0.21	Johansson, 1994
<i>Pinus sylvestris</i>	Sweden	65.8	20.6	3.2	0.21	Johansson, 1994
<i>Pinus sylvestris</i>	Sweden	58.6	15.9	3.9	0.21	Johansson, 1994
<i>Pinus sylvestris</i>	Sweden	56.6	13.3	4.3	0.21	Johansson, 1994
<i>Pinus sylvestris</i>	Sweden	58.5	13.7	4.1	0.25	Johansson, 1994
<i>Pinus sylvestris</i>	Sweden	59.1	17.3	4.1	0.26	Johansson, 1994
<i>Pinus sylvestris</i>	Sweden	63.2	14.5	4.1	0.31	Johansson, 1994
<i>Pinus sylvestris</i>	Sweden	58.1	14.1	4.7	0.31	Johansson, 1994
<i>Pinus sylvestris</i>	Sweden	59.8	16.2	4.5	0.36	Johansson, 1994
<i>Pinus sylvestris</i>	Germany	52.5	13.2	11	0.7	Kratz, 1991
<i>Pinus sylvestris</i>	Spain	41.1	-5.87	10.3	0.82	Escudero et al., 1992
<i>Pinus sylvestris</i>	Sweden	65.5	20.4	2.9		Berg et al., 1991
<i>Pinus sylvestris</i>	Sweden	66.3	20.1	3.2		Johansson, 1986
<i>Pinus sylvestris</i>	Sweden	60.4	13.4	3.6		Berg et al., 1991
<i>Pinus sylvestris</i>	Sweden	58.1	13.2	3.8		Johansson, 1986
<i>Pinus sylvestris</i>	Sweden	59.3	17.2	3.8		Berg et al., 1991
<i>Pinus sylvestris</i>	Sweden	58.3	15.5	3.9		Berg et al., 1991
<i>Pinus sylvestris</i>	Sweden	60.5	16.3	4		Berg et al., 1991
<i>Pinus sylvestris</i>	Sweden	58.3	13.4	4.1		Berg et al., 1991
<i>Pinus sylvestris</i>	Sweden	60.3	13.4	4.1		Berg et al., 1991
<i>Pinus sylvestris</i>	Finland	60.6	13.6	4.1		Paavilainen, 1980
<i>Pinus sylvestris</i>	Sweden	63.1	14.3	4.1		Johansson, 1986
<i>Pinus sylvestris</i>	Sweden	59.1	15.4	4.1		Berg et al., 1991
<i>Pinus sylvestris</i>	Sweden	66.1	20.5	4.1		Berg et al., 1991
<i>Pinus sylvestris</i>	Sweden	56.4	13.2	4.3		Berg et al., 1991
<i>Pinus sylvestris</i>	Finland	60.6	13.7	4.3		Paavilainen, 1980
<i>Pinus sylvestris</i>	Sweden	60.3	13.4	4.4		Berg et al., 1991
<i>Pinus sylvestris</i>	Sweden	59.5	16.3	4.5		Johansson, 1986
<i>Pinus sylvestris</i>	Sweden	60.4	13.4	4.6		Berg et al., 1991
<i>Pinus sylvestris</i>	Sweden	60.4	13.3	4.7		Berg et al., 1991
<i>Pinus sylvestris</i>	Sweden	58	14.1	4.7		Johansson, 1986
<i>Pinus sylvestris</i>	Italy	39.4	16.6	4.9		Fioretto et al., 1998.
<i>Pinus sylvestris</i>	Sweden	59.4	14.3	5.2		Berg et al., 1991
<i>Pinus tabulaeformis</i>	China	40	116.3	5.4	0.4	Hu et al., 1986
<i>Pinus tabulaeformis</i>	China	41.75	123.43	0.6		He et al., 1999
<i>Pinus tabulaeformis</i>	China	40	116.3	4.1		Yao, 1989
<i>Pinus tabulaeformis</i>	China	41.77	123.43	5.6		He et al., 1999
<i>Pinus taeda</i>	USA	36.1	-79.4	4.9	0.31	Finzi et al., 2001
<i>Pinus taeda</i>	USA	36	-84.19	6.8	0.4	Grizzard et al., 1976
<i>Pinus taeda</i>	China	25.61	-117.7	6	2.42	Wei, 2001
<i>Pinus taeda</i>	USA	36	-79.01	4.9		Finzi et al., 2002
<i>Pseudotsuga menziesii</i>	Canada	50.01	-115.01	6.1	1.1	Barry et al., 1989
<i>Pseudotsuga menziesii</i>	USA	47.62	-122.3	5.7		Turner and Olson, 1976
<i>Taxus baccata</i>	Spain	41.1	-5.87	10.8	0.97	Escudero et al., 1992
<i>Picea glauca</i>	Canada	50.01	-115.01	5.2	0.6	Barry et al., 1989

Appendix S2. List of the publications cited in the data set (see Appendix S1).

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Appendix S3. Regression models for the relationships between leaf nutrient variables (nitrogen (N, mg g⁻¹), phosphorus (P, mg g⁻¹) and N:P ratio) and environmental factors (mean annual temperature (MAT, °C), mean annual precipitation (MAP, mm) and latitude (LAT, °)), respectively (corresponding scatter plots are seen in Figs. 4–6).

Appendix S3-I. Regression models for the relationships of leaf litter N (y_N), P (y_P) and N:P ($y_{N:P}$) against MAT (x) (corresponding scatter plots are seen in Fig. 4).

Figures	Equations	r^2	p	n
All species				
Fig. 4A	$y_N = 7.284 + 0.263x$	0.093	<0.001	677
Fig. 4B	$y_P = 0.934 - 0.006x$	0.004	0.192	482
Fig. 4C	$y_{N:P} = 11.577 + 0.431x$	0.088	<0.001	482
Shrubs				
Fig. 4D	$y_N = 12.063 - 0.127x$	0.023	0.248	61
Fig. 4E	$y_P = 1.444 - 0.034x$	0.126	0.021	42
Fig. 4F	$y_{N:P} = 15.937 - 0.961x + 0.050x^2$	0.236	0.005	42
Evergreen broadleaf				
Fig. 4G	$y_N = 7.017 + 0.277x$	0.076	<0.001	176
Fig. 4H	$y_P = 0.685 + 0.008x$	0.003	0.532	141
Fig. 4I	$y_{N:P} = 17.050 + 0.179x$	0.008	0.298	141
Deciduous broadleaf				
Fig. 4J	$y_N = 9.671 + 0.186x$	0.036	0.001	306
Fig. 4K	$y_P = 1.256 - 0.046x + 0.001x^2$	0.032	0.023	234
Fig. 4L	$y_{N:P} = 11.736 + 0.466x$	0.090	<0.001	234
Conifers				
Fig. 4M	$y_N = 3.486 + 0.357x$	0.274	<0.001	134
Fig. 4N	$y_P = 0.590 + 0.003x$	0.002	0.707	65
Fig. 4O	$y_{N:P} = 10.245 + 0.407x$	0.188	<0.001	65

Appendix S3-II. Regression models for the relationships of leaf litter N (y_N), P (y_P) and N:P ($y_{N:P}$) against MAP (x) (corresponding scatter plots are seen in Fig. 5).

Figures	Equations	r^2	p	n
All species				
Fig. 5A	$y_N = 8.986 + 0.001x$	0.045	<0.001	677
Fig. 5B	$y_P = 0.991 - 9.422E-05x$	0.020	0.002	482
Fig. 5C	$y_{N:P} = 13.714 + 0.003x$	0.086	<0.001	482
Shrubs				
Fig. 5D	$y_N = 10.038 + 0.0001x$	0.001	0.854	61
Fig. 5E	$y_P = 1.850 - 0.001x + 1.901E-07x^2$	0.216	0.009	42
Fig. 5F	$y_{N:P} = 8.205 + 0.006x$	0.210	0.002	42
Evergreen broadleaf				
Fig. 5G	$y_N = 9.740 + 0.001x$	0.064	0.001	176
Fig. 5H	$y_P = 0.973 - 6.082E-05x$	0.008	0.283	141
Fig. 5I	$y_{N:P} = 17.454 + 0.002x$	0.030	0.039	141
Deciduous broadleaf				
Fig. 5J	$y_N = 12.029 + 6.297E-05x$	0.001	0.878	306
Fig. 5K	$y_P = 1.127 - 0.0001x$	0.060	<0.001	234
Fig. 5L	$y_{N:P} = 13.283 + 0.004x$	0.088	<0.001	234
Conifers				
Fig. 5M	$y_N = 2.974 + 0.004x$	0.225	<0.001	134
Fig. 5N	$y_P = 0.543 + 7.920E-05x$	0.009	0.444	65
Fig. 5O	$y_{N:P} = 11.280 + 0.004x$	0.089	0.016	65