

# Sheet1

Herbarium Accession no. or literature reference (see Supplementary References for more details)	Species		Terrestrial	Epiphytic	Simple fronds	Highly dissected fronds	Monomorphic	Free veins	Indusium	Soral	Perennial Gametophytes	Proliferating Gametophytes	Monolete	MAT (celsius x10)	MaximumT (celsius x10)	MinimumT (celsius x10)	X3WetP (mm)	X3DryP (mm)	MAP (mm)
Lindsay & Middleton 2016	Abrodictyum	obscurum	1	0	0	1	1	1	1	1	1	1	0	220.723881	301.029851	127.223881	1091.6791	146.604478	2012.52985
Lellinger 1989	Abrodictyum	rigidum	1	0	0	1	1	1	1	1	1	1	0	212.105263	294.105263	121.052632	781.157895	147.789474	1754.57895
L3716962	Acrorumohra	diffracta	1	0	0	1	1	1	1	1	0	0	1	178.683908	255.442529	86.4425287	1402.28736	210.247126	2800.24713
L0051589	Acrorumohra	hasseltii	1	0	0	0	1	1	0	1	0	0	1	188.297297	268.851351	98.9684685	1441.61712	369.959459	3227.98649
Lellinger 1989	Acrostichum	aureum	1	0	0	0	0	0	0	0	0	0	0	251.947103	317.523929	184.052897	971.826196	204.196474	2240.59698
Lellinger 1989	Acrostichum	danaeifolium	1	0	0	0	0	0	0	0	0	0	0	258.229682	331.491166	184.166078	816.830389	168.053004	1921.98587
Andrews 1990	Acrostichum	speciosum	1	0	0	0	0	0	0	0	0	0	0	241.316568	316.883136	147.64645	794.83284	145.193787	1645.31213
P01313823	Actiniopteris	australis	1	0	0	0	0	1	1	1	1	0	0	224.157895	329.052632	116.473684	795.526316	148.368421	1549.15789
Crouch et al. 2011	Actiniopteris	dimorpha	1	0	0	0	0	1	1	1	1	0	0	214.928571	309.350649	111.428571	534.694805	38.7012987	950.974026
Crouch et al. 2011	Actiniopteris	radiata	1	0	0	0	0	1	1	1	1	0	0	218.645768	319.388715	101.658307	409.125392	27.5047022	744.902821
BR5906437	Actinostachys	pennula	1	0	0	0	0	1	0	0	1	1	1	254.57485	319.341317	193.550898	930.652695	269.868263	2324.46108
P01631039	Acystopteris	japonica	1	0	0	1	1	1	1	1	0	0	1	136.703704	272.63786	-0.1563786	886.917695	230.584362	2255.77366
K001089146	Acystopteris	tenuisecta	1	0	0	0	1	1	1	1	0	0	1	164.304598	236.109195	77.1091954	1247.48276	230.45977	2667.32759
K001044297	Adenophorus	pinnatifidus	0	1	0	0	1	1	0	1	1	1	0	214.55	279.4	152.05	806.5	427.35	2430.9
K001044293	Adenophorus	tamariscinus	0	1	0	0	1	1	0	1	1	1	0	203.129032	266.903226	141.903226	817	419.483871	2441.93548
K001044289	Adenophorus	tripinnatifidus	0	1	0	0	1	1	0	1	1	1	0	181.666667	249.916667	113.916667	829.25	355.333333	2377
Tryon & Tryon 1982	Adiantopsis	chlorophylla	1	0	0	0	1	1	1	1	0	0	0	207.41791	309.985075	102.712687	493.182836	202.69403	1411.13806
Lellinger 1989	Adiantopsis	radiata	1	0	0	1	1	1	1	1	0	0	0	223.968586	309.104712	138.405759	689.604712	201.73822	1762.16754
Andrews 1990	Adiantum	aethiopicum	1	0	0	1	1	1	1	1	0	0	0	151.755756	265.455455	32.5355355	364.554555	163.078078	1040.18519
eFlora of North America	Adiantum	aleuticum	1	0	0	0	1	1	1	1	0	0	0	92.2861635	240.820755	-18.0345912	623.166667	85.918239	1317.96541
Tryon & Tryon 1982	Adiantum	cajennense	1	0	0	0	1	1	1	1	0	0	0	256.523077	319.553846	204.897436	1047.3641	276.441026	2645.88205
Andrews 1990	Adiantum	diaphanum	1	0	0	0	1	1	1	1	0	0	0	195.639161	280.453147	101.728671	841.65035	222.688112	1948.62657
Lindsay & Middleton 2016	Adiantum	edgeworthii	1	0	0	0	1	1	1	1	0	0	0	158.510791	259.913669	26.2589928	795.597122	60.5539568	1430.5036
Lindsay & Middleton 2016	Adiantum	flabellulatum	1	0	0	0	1	1	1	1	0	0	0	206.890698	308.148837	93.6930233	931.816279	173.955814	1992.08372
Andrews 1990	Adiantum	hispidulum	1	0	0	0	1	1	1	1	0	0	0	182.982983	283.042042	66.7067067	534.384384	150.894895	1282.59359
Lellinger 1989	Adiantum	latifolium	1	0	0	0	1	1	1	1	0	0	0	250.545977	318.436782	185.170977	978.24569	263.897989	2490.37213
Lindsay & Middleton 2016	Adiantum	malesianum	1	0	0	0	1	1	1	1	0	0	0	217.329545	296.090909	126.460227	1042.23864	217.193182	2246.63636
Knapp 2011	Adiantum	monochlamys	1	0	0	0	1	1	1	1	0	0	0	137.993789	290.509317	-15.431677	707.854037	207.301242	1923.92547

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Lellinger 1989	Adiantum	obliquum	1	0	0	0	1	1	1	1	0	0	248.997481	312.392947	190.959698	1110.01763	314.894207	2940.19647
eFlora of North America	Adiantum	pedatum	1	0	0	1	1	1	1	1	0	0	102.175175	274.763764	-69.8148148	469.628629	187.388388	1328.72172
K000633065	Adiantum	pentadactylon	1	0	0	0	1	1	1	1	0	0	242.833333	346	138.666667	867.833333	244.333333	2099.5
B200006162	Adiantum	peruvianum	1	0	0	0	1	1	1	1	0	0	219.76	294.88	136.88	609.36	247.96	1702.4
Lellinger 1989	Adiantum	raddianum	1	0	0	1	1	1	1	1	0	0	176.236253	263.741344	86.7820774	568.06721	185.008147	1488.45214
Tryon & Tryon 1982	Adiantum	reniforme	1	0	1	0	1	1	1	1	0	0	184.967742	276.806452	107.096774	387.145161	36.8225806	755.370968
Lellinger 1989	Adiantum	serratodentatum	1	0	0	0	1	1	1	1	0	0	246.818182	326.772727	162.754545	799.954545	135.018182	1843.60909
H1122922	Adiantum	subcordatum	1	0	0	0	1	1	1	1	0	0	226.5	322.166667	111.5	914.333333	76.1666667	1745.5
Lellinger 1989	Adiantum	tenerum	1	0	0	0	1	1	1	1	0	0	239.3367	315.074074	160.771044	753.461279	177.040404	1801.53872
B200007535	Adiantum	terminatum	1	0	0	0	1	1	1	1	0	0	250.062914	314.884106	190.556291	960.364238	276.956954	2453.67219
Lellinger 1989	Adiantum	tetraphyllum	1	0	0	0	1	1	1	1	0	0	240.661565	309.059524	173.97449	961.256803	224.280612	2399.10714
K001109205	Adiantum	venustum	1	0	0	1	1	1	1	1	0	0	97.7209302	233.232558	-66.3953488	464.72093	46.255814	847.906977
Lindsay & Middleton 2016	Aglaomorpha	drynarioides	0	1	0	0	0	0	0	0	1	1	246.090909	297.079545	199.193182	1021.94318	549.125	3104.47727
Lindsay & Middleton 2016	Aglaomorpha	heraclea	0	1	0	0	0	0	0	1	1	1	222.670732	274.219512	176.182927	994.780488	512.207317	2977.2439
B200008301	Aglaomorpha	hieronymi	0	1	0	0	0	0	0	1	1	1	207.846154	269.461538	151.038462	1099.73077	709.807692	3587.69231
B200008312	Aglaomorpha	meyeniana	0	1	0	0	0	0	0	1	1	1	234.446809	301.93617	160.702128	1318	191.021277	2568.61702
B200008331	Aglaomorpha	novoguineensis	0	1	0	0	0	0	0	1	1	1	196.111111	261.185185	134.37037	896.296296	354.814815	2514.66667
K000856727	Aglaomorpha	parkinsonii	0	1	0	0	0	0	0	1	1	1	229.745455	286.563636	176.218182	782	416.454545	2398.92727
Lellinger 1989	Aleuritopteris	farinosa	1	0	0	0	1	1	1	1	0	0	174.655738	269.786885	74.8852459	856.95082	69.0163934	1637.32787
FTG140027	Alsophila	bryophila	1	0	0	0	1	1	1	1	1	0	230.190476	297.571429	155.285714	779.952381	296.761905	2186.14286
Large & Braggins 2004	Alsophila	capensis	1	0	0	0	1	1	1	1	1	0	165.741935	258.709677	59.0241935	413.137097	74.6854839	933.177419
US00066349	Alsophila	cuspidata	1	0	0	0	1	1	1	1	1	0	242.527778	305.480159	179.31746	1022.06349	375.210317	2837.11905
Large & Braggins 2004	Alsophila	firma	1	0	0	0	1	1	1	1	1	0	223.687179	295.302564	156.825641	1140.86667	164.297436	2687.09744
Large & Braggins 2004	Alsophila	imrayana	1	0	0	0	1	1	1	1	1	0	205.5	268.827586	146.413793	1171.22414	335.344828	3214.86207
K000589753	Alsophila	salvinii	1	0	0	1	1	1	1	1	1	0	203.128205	280.666667	126.538462	916.179487	163.487179	2118
K000061675	Alsophila	spinulosa	1	0	0	1	1	1	1	1	1	0	196.618257	291.170124	96.253112	1083.04149	440.302905	2815.87967
MO1060863	Alsophila	tryoniana	1	0	0	1	1	1	1	1	1	0	205.1875	283.4375	128.8125	791.5	101	1831.4375
Brownsey & Perrie 2014a	Anarthropteris	lanceolata	0	1	1	0	1	0	0	1	1	1	128.359091	222.381818	41.9318182	674.272727	427.231818	2188.05909
FLAS232152	Anemia	adiantifolia	1	0	0	0	0	1	0	0	0	0	242.737201	321.679181	159.822526	662.259386	135.706485	1535.31058
BM000589271	Anemia	hirsuta	1	0	0	0	0	1	0	0	0	0	226.520548	305.294521	148.212329	773.150685	79.4109589	1625.42808
MO1779346	Anemia	hirta	1	0	0	0	0	1	0	0	0	0	249.076923	314.615385	184.538462	610.846154	185.384615	1482.76923
ASU0000921	Anemia	mexicana	1	0	0	0	0	1	0	0	0	0	217.732143	336.642857	88.1428571	501.714286	58.8928571	964.821429

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ASU0000925	Anemia	phyllitidis	1	0	0	0	0	0	0	0	0	0	0	208.774336	292.640487	122.896018	725.134956	161.602876	1775.09513
Lellinger 1989	Anetium	citrifolium	0	1	0	0	1	0	0	0	1	1	0	245.845614	309.789474	187.45614	1143.02105	335.417544	3040.62456
Lindsay & Middleton 2016	Angiopteris	evecta	1	0	0	0	1	1	0	1	1	0	0	228.156522	299.62029	150.249275	1017.11884	226.553623	2248.31594
eFlora of China	Angiopteris	lygodiifolia	1	0	0	0	1	1	0	1	1	0	0	192.106599	275.126904	100.152284	1310.03299	298.116751	2884.50761
P01410523	Angiopteris	palmiformis	1	0	0	0	1	1	0	1	1	0	0	236.33871	308.935484	162.193548	982.274194	364.193548	2615.30645
MO207628	Anogramma	chaerophylla	1	0	0	1	1	1	0	1	0	0	0	203.741935	316.193548	91.1935484	545.354839	247.064516	1550.64516
Lellinger 1989	Anogramma	leptophylla	1	0	0	0	1	1	0	1	0	0	0	155.234234	308.384384	39.0880881	275.681682	51.2792793	675.493493
MO2403198	Antrophyum	boryanum	0	1	1	0	1	0	0	1	1	1	0	204.310345	274.965517	126.017241	823.293103	132.568966	1628.32759
Lindsay & Middleton 2016	Antrophyum	callifolium	0	1	1	0	1	0	0	0	1	1	0	241.956621	305.824201	173.618721	1053.1484	262.59589	2374.00228
Lellinger 1989	Antrophyum	ensiforme	0	1	0	0	1	0	0	0	1	1	0	181.647619	258.980952	103.590476	999.285714	148.466667	2251.52381
US00055219	Antrophyum	formosanum	0	1	1	0	1	0	0	0	1	1	0	193.697917	275.140625	102.744792	1239.16667	259.015625	2706.16667
Holtum 1954	Antrophyum	latifolium	0	1	1	0	1	0	0	0	1	1	0	231.52	287.52	176.08	956.04	420.28	2792.2
Lindsay & Middleton 2016	Antrophyum	obovatum	0	1	1	0	1	0	0	0	1	1	0	169.487437	254.633166	67.0452261	1106.16583	186.170854	2315.54774
US01168803	Antrophyum	plantagineum	0	1	1	0	1	0	0	0	1	1	0	241.40458	297.89313	184.022901	1112.03704	349.37037	2692.02963
K001109087	Antrophyum	reticulatum	0	1	1	0	1	0	0	0	1	1	0	241.90099	301.594059	179.49505	1127.78218	313.594059	2665.59406
L0050975	Arachniodes	amabilis	1	0	0	0	1	1	1	1	0	0	1	162.125475	289.56654	32.2547529	870.292776	250.326996	2293.04943
U0043735	Arachniodes	aristata	1	0	0	1	1	1	1	1	0	0	1	173.711712	280.771772	57.2192192	815.236236	208.562563	1979.13714
EIG1423	Arachniodes	borealis	1	0	0	1	1	1	1	1	0	0	1	98.1269841	275.449735	-61.2486772	566.359788	279.756614	1647.65608
P01565588	Arachniodes	caudata	1	0	0	0	1	1	1	1	0	0	1	152.625	293.59375	3.90625	859.21875	203.71875	2107.125
K000722060	Arachniodes	chinensis	1	0	0	0	1	1	1	1	0	0	1	166.945736	310.844961	24.2093023	744.689922	171.03876	1803.16279
K000954641	Arachniodes	denticulata	1	0	0	1	1	1	1	1	0	0	1	159.364486	224.353271	92.5046729	891.684112	164.53271	2163.00561
TAI234600	Arachniodes	dimorphophylla	1	0	0	0	1	1	1	1	0	0	1	225.133333	319.133333	123.666667	943.4	355.466667	2494.13333
eFlora of China	Arachniodes	festina	1	0	0	1	1	1	1	1	0	0	1	164.856574	248.067729	69.0438247	1231.91633	279.800797	2787.94024
eFlora of China	Arachniodes	globisora	1	0	0	1	1	1	1	1	0	0	1	174.194175	246.165049	85.3106796	1546.41748	150.718447	2918.83495
eFlora of China	Arachniodes	miqueliana	1	0	0	1	1	1	1	1	0	0	1	140.95339	300.34322	-12.9661017	668.987288	204.936441	1843.09746
EIG1421	Arachniodes	mutica	1	0	0	0	1	1	1	1	0	0	1	95.9325843	266.808989	-61.7191011	676.359551	269.022472	1846.74157
eFlora of China	Arachniodes	nipponica	1	0	0	1	1	1	1	1	0	0	1	134.62069	277.517241	-12.0689655	859.301724	204.465517	2128.58621
L3717451	Arachniodes	rhomboidea	1	0	0	0	1	1	1	1	0	0	1	160.694118	306.541176	13.0470588	730.129412	178.294118	1787.28235
L0170053	Arachniodes	simplicior	1	0	0	0	1	1	1	1	0	0	1	146.870219	299.244536	-4.32513661	696.837432	204.142077	1878.77459
L0050980	Arachniodes	sporadosora	1	0	0	1	1	1	1	1	0	0	1	158.976109	297.156997	20.883959	785.576792	256.40273	2195.91809
K001040029	Arachniodes	standishii	1	0	0	1	1	1	1	1	0	0	1	130.307978	291.107607	-22.9833024	637.80705	237.651206	1799.2449
eFlora of China	Arachniodes	tonkinensis	1	0	0	1	1	1	1	1	0	0	1	210.2	295.7	106.4	979.5	57.5	1895.6

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Knapp 2011	Archangiopteris	henryi	1	0	0	0	1	1	0	1	1	0	0	194.394231	276.663462	99.3846154	1238.67308	201.663462	2552.30769
Knapp 2011	Archangiopteris	itoi	1	0	0	0	1	1	0	1	1	0	0	198.061224	290.428571	104.22449	1300.63265	494.836735	3383.5102
eFlora of North America	Argyrochosma	fendleri	1	0	0	1	1	1	1	1	0	0	0	62.7037037	275.444444	-136.777778	165.259259	58.3333333	409.592593
eFlora of North America	Argyrochosma	incana	1	0	0	1	1	1	1	1	0	0	0	163.27	283.78	39.28	498.9	39.61	884.78
eFlora of North America	Argyrochosma	jonesii	1	0	0	0	1	1	1	1	0	0	0	138.875	328.96875	-12.78125	209.03125	21.9375	442.734375
eFlora of North America	Argyrochosma	limitanea	1	0	0	1	1	1	1	1	0	0	0	154.808333	318.775	-0.45833333	269.308333	37.2583333	510.925
H1496009	Argyrochosma	nivea	1	0	0	0	1	1	1	1	0	0	0	114.373333	229.04	-21.84	227.346667	14.8533333	386.72
Lellinger 1989	Arthropteris	lehmannii	0	1	0	0	1	0	0	1	1	1	1	149.145161	227.854839	51.5483871	1301.82661	216.693548	2728.95968
K001044133	Arthropteris	wallichiana	0	1	0	0	1	0	0	1	1	1	1	170.103448	265.586207	36.5517241	984.103448	49.4827586	1643.44828
K000559844	Arthropteris	beckleri	1	0	0	0	1	1	1	1	0	0	1	168.718706	267.838256	55.9057665	622.104079	185.580872	1539.35443
K000559858	Arthropteris	palisotii	1	0	0	0	1	1	1	1	0	0	1	228.201581	299.774704	150.853755	1073.6581	164.379447	2162.67787
K000435680	Arthropteris	parallela	1	0	0	0	1	1	1	1	0	0	1	222.444444	309.333333	129.555556	967.222222	172.333333	1951.55556
eFlora of North America	Aspidotis	californica	1	0	0	1	1	1	1	1	0	0	0	156.575269	302.521505	38.7956989	280.064516	9.45698925	514.236559
eFlora of North America	Aspidotis	densa	1	0	0	1	0	1	1	1	0	0	0	80.2075949	248.379747	-37.5873418	583.232911	71.7620253	1207.49367
eFlora of North America	Asplenium	abscissum	1	0	0	0	1	1	1	1	0	0	1	220.354167	292.537037	147.081019	829.430556	180.12037	2042.13889
eFlora of North America	Asplenium	adulterinum	1	0	0	0	1	1	1	1	0	0	1	51.4844193	172.062323	-49.2917847	496.305949	224.376771	1413.22946
WAG0175782	Asplenium	aethiopicum	0	1	0	0	1	1	1	1	0	0	1	163.336336	255.206206	60.017017	504.481481	78.6026026	1108.12112
L3503193	Asplenium	affine	0	1	0	0	1	1	1	1	0	0	1	217.889344	276.663934	160.237705	915.560484	363.100806	2439.64919
K000200014	Asplenium	alatum	0	1	0	0	1	1	1	1	0	0	1	179.869565	249.204969	108.906832	812.795031	224.546584	2098.36025
EIG7256	Asplenium	anceps	1	0	0	0	1	1	1	1	0	0	1	146.985075	226.895522	64.7910448	885.716418	147.059701	1963.19403
U0086145	Asplenium	angustum	0	1	1	0	1	1	1	1	0	0	1	253.658228	318.924051	193.316456	961	284.860759	2447.79747
WAG0175392	Asplenium	anisophyllum	0	1	0	0	1	1	1	1	0	0	1	197.4	280.845	107.135	709.085	100.385	1521.81
Knapp 2011	Asplenium	apogamum	1	0	0	0	1	1	1	1	0	0	1	208.16	293.56	115.28	1286.44	366.88	3042.84
L3502626	Asplenium	auritum	0	1	0	0	1	1	1	1	0	0	1	208.802803	277.747748	139.962963	905.468468	248.448448	2316.54655
L3502601	Asplenium	australasicum	0	1	1	0	1	1	1	1	0	0	1	169.344344	267.429429	56.9429429	568.061061	191.265265	1464.71872
Knapp 2011	Asplenium	boreale	1	0	0	0	1	1	1	1	0	0	1	170.526316	321.105263	14.7368421	990.684211	243.473684	2529.73684
K001092477	Asplenium	bourgaei	1	0	0	0	1	1	1	1	0	0	1	197.7	344.9	74.9	604.3	10.3	987.8
K001092540	Asplenium	bulbiferum	1	0	0	1	1	1	1	1	0	0	1	114.742743	220.351351	18.6136136	556.066066	348.927928	1816.19019
K001109565	Asplenium	bullatum	1	0	0	0	1	1	1	1	0	0	1	137.225	214.925	38.9	1486.6625	177.3125	2998.2625
L3503043	Asplenium	capillipes	1	0	0	0	1	1	1	1	0	0	1	122.982456	222.403509	3.07017544	1088.35088	173.649123	2395.12281
L3503061	Asplenium	caudatum	0	1	0	0	1	1	1	1	0	0	1	205.265734	259.818182	152.629371	931.5625	390.284722	2651.35417
eFlora of China	Asplenium	ceterach	1	0	0	0	1	0	1	1	0	0	1	120.14014	256.117117	12.0640641	277.587588	135.005005	818.953954
US00457852	Asplenium	contiguum	0	1	0	0	1	1	1	1	0	0	1	224.65625	283.25	168.46875	903.34375	486.40625	2766.78125

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Crouch et al. 2011	Asplenium	cordatum	1	0	0	0	1	1	1	1	0	0	1	161.575221	289.256637	27.4115044	195.380531	36.2168142	437.588496
K000200076	Asplenium	cristatum	1	0	0	0	1	1	1	1	0	0	1	209.495781	277.449367	140.324895	812.837553	170.489451	1995.50422
Knapp 2011	Asplenium	cuneatiforme	1	0	0	0	1	1	1	1	0	0	1	190.481675	271.204188	100.968586	1310.42932	321.329843	2945.40838
EIG18198	Asplenium	cuneifolium	1	0	0	0	1	1	1	1	0	0	1	81.0408163	227.408163	-39.5102041	290.316327	137.622449	830.326531
K000200037	Asplenium	cuspidatum	0	1	0	0	1	1	1	1	0	0	1	173.541775	246.074413	97.0992167	761.134465	154.97389	1787.90209
K000443385	Asplenium	cymbifolium	0	1	1	0	1	1	1	1	0	0	1	225.818182	277.409091	177.772727	1070	491.818182	3169.18182
eFlora of North America	Asplenium	dalhousiae	1	0	0	0	1	1	1	1	0	0	1	175.047619	318.238095	28.5714286	587.428571	65.1904762	998.238095
EIG7416	Asplenium	dareoides	0	1	0	1	1	1	1	1	0	0	1	72.483871	177.290323	-9.58064516	501.935484	169.612903	1242.29032
NSW Flora Online	Asplenium	difforme	1	0	0	0	1	1	1	1	0	0	1	188.617647	273.980392	81.3235294	559	221.039216	1560.73529
K000423896	Asplenium	elliottii	1	0	0	0	1	1	1	1	0	0	1	207.909091	288.818182	124.909091	632.363636	86.6363636	1411.36364
K000338299	Asplenium	emarginatum	1	0	0	0	1	1	1	1	0	0	1	257.232558	331.837209	188.697674	681.883721	91.9534884	1611.37209
K001092472	Asplenium	ensiforme	0	1	1	0	1	1	1	1	0	0	1	152.584906	242.918239	37.5440252	1033.94969	118.537736	2004.52516
K000423899	Asplenium	erectum	1	0	0	0	1	1	1	1	0	0	1	172.928571	259.418367	73.6836735	574.045918	76.8316327	1203
B200021905	Asplenium	feei	1	1	0	0	1	1	1	1	0	0	1	203.888889	272.470588	137.20915	971.418301	147.947712	2291.70588
L0051003	Asplenium	filipes	1	0	0	0	1	1	1	1	0	0	1	171.518987	245.006329	89.5759494	1125.68354	347.031646	2792.87975
EIG7592	Asplenium	fissum	1	0	0	1	1	1	1	1	0	0	1	64.4545455	218.886364	-65.4545455	398.772727	189.818182	1110.5
Andrews 1990	Asplenium	flabellifolium	1	1	0	0	1	1	1	1	0	0	1	137.536537	256.035035	20.4664665	343.42042	174.621622	1028.73774
Andrews 1990	Asplenium	flaccidum	1	1	0	0	1	1	1	1	0	0	1	118.560561	225.778779	16.7797798	544.771772	322.013013	1726.57457
eFlora of China	Asplenium	formosae	1	0	0	0	1	1	1	1	0	0	1	201.973684	288.723684	109.026316	1224.36842	339.065789	2893.39474
K000295626	Asplenium	formosum	1	1	0	0	1	1	1	1	0	0	1	231.594801	308.438838	154.582569	834.608563	123.582569	1905.00459
K000423892	Asplenium	friesiorum	1	0	0	0	1	1	1	1	0	0	1	179.721429	256.371429	94.6214286	680.942857	87.9785714	1443.33571
K000423890	Asplenium	gemmiferum	1	0	0	0	1	1	1	1	0	0	1	178.873563	264.034483	81.7126437	472.264368	93.7241379	1128.5977
K000815762	Asplenium	griffithianum	1	0	1	0	1	1	1	1	0	0	1	189.058824	274.722689	89.6806723	1129.67227	206.529412	2410.68067
F1834423	Asplenium	harpeodes	1	0	0	0	1	1	1	1	0	0	1	158.016129	225.879928	84.7437276	757.039427	172.716846	1876.48566
H1076089	Asplenium	hemionitis	1	0	1	0	1	1	1	1	0	0	1	156.916667	256.648148	78.1851852	283.814815	29.4259259	607.37963
eFlora of North America	Asplenium	heterochroum	1	0	0	0	1	1	1	1	0	0	1	227.326923	308.846154	144.423077	672.096154	185.596154	1683.96154
K001092547	Asplenium	hookerianum	1	0	0	0	1	1	1	1	0	0	1	104.816667	205.318519	15.8574074	487.781481	299.322222	1552.83519
Knapp 2011	Asplenium	incisum	1	0	0	0	1	1	1	1	0	0	1	138.062062	298.564565	-15.3463463	635.225225	217.950951	1717.87187
F2070308	Asplenium	juglandifolium	0	1	0	0	1	1	1	1	0	0	1	233.544757	297.199488	173.890026	1026.68286	267.383632	2643.89258
BM000948712	Asplenium	laciniatum	1	0	0	0	1	1	1	1	0	0	1	135.625	231.513889	11.3402778	1020.15278	98.5347222	1931.79861
F1722728	Asplenium	laetum	1	0	0	0	1	1	1	1	0	0	1	230.444444	300.31746	162.04127	931.622222	237.311111	2364.25714
Flora of New Zealand	Asplenium	lamprophyllum	1	0	0	0	1	1	1	1	0	0	1	146.068966	241.827586	58	552.551724	341.689655	1734.13793
Andrews 1990	Asplenium	laserpitifolium	0	1	0	1	1	1	1	1	0	0	1	235.255981	296.320574	171.624402	1135.7852	292.51074	2585.44869
K001092551	Asplenium	lucidum	1	0	0	0	1	1	1	1	0	0	1	118.873211	217.695297	29.5030675	640.609407	425.94274	2133.17587
K000200034	Asplenium	lunulatum	1	0	0	0	1	1	1	1	0	0	1	179.388889	270.87963	72.1759259	418.898148	88.25	969.407407
LI212647	Asplenium	majoricum	1	0	0	0	1	1	1	1	0	0	1	153.156863	287.254902	42.372549	214.647059	67.4509804	562.784314
WAG0175314	Asplenium	mannii	0	1	0	0	1	1	1	1	0	0	1	190.834646	270.811024	110.275591	760.897638	115.952756	1695.00787
H1075254	Asplenium	marinum	1	0	0	0	1	1	1	1	0	0	1	95.5525526	187.748749	19.3543544	418.406406	213.082082	1248.31131
NSW Flora Online	Asplenium	milnei	1	0	0	0	1	1	1	1	0	0	1	190.503497	251.286713	133.468531	484.916084	314.825175	1541.26573

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Crouch et al. 2011	Asplenium	monanthes	1	0	0	0	1	1	1	1	0	0	1	139.168168	225.106106	46.7557558	573.774775	89.8708709	1234.48949
eFlora of North America	Asplenium	montanum	1	0	0	0	1	1	1	1	0	0	1	119.622951	293.508197	-56.6229508	368.42623	274.016393	1297.34426
K000633331	Asplenium	myriophyllum	1	0	0	0	1	1	1	1	0	0	1	198.046948	265.685446	127.666667	726.535211	183.497653	1825.69953
L3494679	Asplenium	nidus	0	1	1	0	1	1	1	1	0	0	1	229.512299	290.660963	167.192513	1018.84339	382.801058	2653.54074
L3504693	Asplenium	normale	1	1	0	0	1	1	1	1	0	0	1	177.857609	273.991304	74.5576087	1041.51196	244.884783	2402.93152
K001092551	Asplenium	oblongifolium	1	0	0	0	1	1	1	1	0	0	1	127.947761	221.390547	44.1268657	564.544776	338.987562	1780.9005
K000649460	Asplenium	obtusatum	1	0	0	0	1	1	1	1	0	0	1	129.771654	215.792651	52.664042	435.857513	256.880829	1397.94301
H1128212	Asplenium	oligophlebium	1	1	0	0	1	1	1	1	0	0	1	166.857143	360.285714	-5.14285714	675.714286	336.285714	1974.57143
H1128245	Asplenium	onopteris	1	0	0	0	1	1	1	1	0	0	1	141.466466	280.558559	31.9119119	262.788789	82.5205205	703.038038
eFlora of China	Asplenium	pekinense	1	0	0	0	1	1	1	1	0	0	1	137.554622	278.268908	-16.4117647	619.016807	129.197479	1436.76891
H1128257	Asplenium	petrarchae	1	0	0	0	1	1	1	1	0	0	1	149.627628	288.32032	34.1861862	193.399399	68.03003	514.610611
Flora of Zimbabwe	Asplenium	phillipsianum	1	0	0	0	1	1	1	1	0	0	1	187.764706	290.411765	52.6470588	308.882353	57.8235294	696.764706
Lindsay & Middleton 2016	Asplenium	planicaule	0	1	0	0	1	1	1	1	0	0	1	163.08046	255.011494	43.5977011	1000.90805	117.011494	1990.65517
MO36729	Asplenium	platyneuron	1	0	0	0	1	1	1	1	0	0	1	127.857708	303.748353	-52.314888	346.083004	219.587615	1146.20422
K001109575	Asplenium	polyodon	0	1	0	0	1	1	1	1	0	0	1	164.547548	264.215215	54.2862863	584.484484	191.355355	1479.8048
K001092527	Asplenium	prolongatum	0	1	0	0	1	1	1	1	0	0	1	169.037288	283.684746	41.6881356	834.362712	132.728814	1749.53559
Flora of Zimbabwe	Asplenium	protensum	1	0	0	0	1	1	1	1	0	0	1	167.084416	251.883117	76.2077922	624.519481	96.7532468	1367.22078
PMA43220	Asplenium	pteropus	0	1	0	0	1	1	1	1	0	0	1	209.44289	274.822844	145.974359	1003.37762	244.195804	2554.44289
MO1779651	Asplenium	resiliens	1	0	0	0	1	1	1	1	0	0	1	149.654275	292.040892	4.71747212	404.130112	123.635688	1011.05576
US00857895	Asplenium	rhizophyllum	1	0	1	0	1	0	1	1	0	0	1	111.710027	300.449864	-80.2845528	335.823848	193.411924	1090.43902
K001092539	Asplenium	richardii	1	0	0	0	1	1	1	1	0	0	1	80.096	184.4	-13	462.896	332.2	1629.944
F2233282	Asplenium	riparium	1	0	0	0	1	1	1	1	0	0	1	212.26087	281.052174	147.8	1153.4913	273.756522	2945.54783
eFlora of China	Asplenium	ritoense	1	0	0	0	0	1	1	1	0	0	1	178.729537	278.52669	72.2170819	1089.95374	270.480427	2601.08185
eFlora of China	Asplenium	ruprechtii	1	0	1	0	0	0	1	1	0	0	1	129.429577	288.697183	-30.2464789	712.78169	194.056338	1869.07042
H1128904	Asplenium	sagittatum	1	0	1	0	1	1	1	1	0	0	1	155.619048	295.666667	40.047619	230.809524	75.2380952	614.619048
BR13070205	Asplenium	salicifolium	1	0	0	0	1	1	1	1	0	0	1	227.440191	296.755981	160.688995	875.349282	201.186603	2202.5311
Flora of Zimbabwe	Asplenium	sandersonii	0	1	0	0	1	1	1	1	0	0	1	197.632727	277.792727	111.523636	738.996364	104.461818	1632.04364
K001092450	Asplenium	sarelii	1	0	0	0	1	1	1	1	0	0	1	142.814255	297.384449	-13.174946	636.460043	168.520518	1645.42117
TRT22668	Asplenium	scolopendrium	1	0	1	0	1	1	1	1	0	0	1	98.0930931	215.149149	0.43943944	270.720721	174.379379	890.990991
TSB62310	Asplenium	seelosii	1	0	0	0	1	1	1	1	0	0	1	100.414474	248.315789	-12.0460526	236.986842	145.151316	770.072368
Knapp 2011	Asplenium	septentrionale	1	0	0	0	1	1	1	1	0	0	1	60.6686687	177.281281	-38.5785786	461.966967	220.052052	1342.65165
F2027631	Asplenium	serratum	0	1	1	0	1	1	1	1	0	0	1	245.471471	312.996997	179.721722	978.227227	279.16016	2526.70771
Andrews 1990	Asplenium	simplicifrons	0	1	1	0	1	1	1	1	0	0	1	216.340314	297.256545	124.073298	1082.44503	112.910995	1881.43455
K000423988	Asplenium	tenerum	0	1	0	0	1	1	1	1	0	0	1	232.013514	287.862613	177.576577	1036.50223	424.350446	2837.87054
eFlora of China	Asplenium	tenuicaule	0	1	0	0	1	1	1	1	0	0	1	127.222222	280.546296	-32.037037	681.967593	182.810185	1782.75926
K000423903	Asplenium	theciferum	0	1	0	0	1	1	1	1	0	0	1	181.893103	261.534483	96.7586207	684.606897	90.2	1485.92069
US00921246	Asplenium	trichomanes	1	0	0	0	1	1	1	1	0	0	1	77.3913914	187.861862	-15.5335335	465.503504	232.181181	1374.73473
eFlora of China	Asplenium	tripteropus	1	0	0	0	1	1	1	1	0	0	1	145.182222	289.724444	-0.14666667	724.604444	169.062222	1800.92
US00819443	Asplenium	variabile	0	1	1	0	1	1	1	1	0	0	1	236.640625	304.433594	173.195313	881.917969	149.882813	2067.76563

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K000512907	Asplenium	varians	1	0	0	0	1	1	1	1	0	0	1	161.163265	282.548105	21.6472303	698.040816	87.0379009	1329.31487
K000478744	Asplenium	wilfordii	0	1	0	1	1	1	1	0	0	1	165.567485	265.91411	56.7239264	1153.20859	270.981595	2671.9908	
eFlora of China	Asplenium	wrightii	1	0	0	0	1	1	1	1	0	0	170.049383	283.088889	50.562963	1051.53333	258.037037	2494.54074	
Lindsay & Middleton 2016	Asplenium	yoshinagae	0	1	0	0	1	1	1	0	0	1	145.767123	262.383562	11.6164384	951.410959	140.369863	1981.72603	
Knapp 2011	Asplenium	yunnanense	1	0	0	0	1	1	1	1	0	0	140.58871	241.629032	-0.83064516	574.451613	37.2903226	989.379032	
eFlora of North America	Astrolepis	cochisensis	1	0	0	0	1	1	0	0	0	0	165.484848	338.752525	3.80808081	164.924242	28.2727273	350.686869	
eFlora of North America	Astrolepis	integerrima	1	0	0	0	1	1	0	0	0	0	166.204724	309.685039	20.0629921	278.377953	36.7952756	544.874016	
eFlora of North America	Astrolepis	sinuata	1	0	0	0	1	1	0	0	0	0	175.328482	309.505198	40.1746362	333.968815	38.5925156	629.995842	
eFlora of North America	Astrolepis	windhamii	1	0	0	0	1	1	0	0	0	0	185.962963	357.703704	16.6666667	327.444444	32.4444444	562.703704	
E00429007	Athyrium	arisanense	1	0	0	0	1	1	1	1	0	0	166.087671	241.016438	75.3835616	1415.2	229.852055	2916.33151	
US00135137	Athyrium	clivicola	1	0	0	0	1	1	1	1	0	0	127.847418	288.051643	-24.213615	704.894366	237.258216	1929.85915	
eFlora of China	Athyrium	deltoidifrons	1	0	0	0	1	1	1	1	0	0	114.735465	284.110465	-39.5087209	640.296512	254.636628	1776.25581	
L3525100	Athyrium	filix_femina	1	0	0	0	1	1	1	1	0	0	72.4004004	183.448448	-19.013013	434.946947	220.864865	1304.21321	
TNS766433	Athyrium	frangulum	1	0	0	0	1	1	1	1	0	0	125.930233	275.209302	-24.8372093	889.534884	225.511628	2225.83721	
eFlora of China	Athyrium	iseanum	1	0	0	0	1	1	1	1	0	0	142.076613	294.739919	-5.85282258	727.316532	217.260081	1940.24798	
TNS762678	Athyrium	kuratae	1	0	0	0	1	1	1	1	0	0	153.705882	238.323529	53.0588235	1477.79412	252.470588	3078.82353	
TNS765161	Athyrium	melanolepis	1	0	0	0	1	1	1	1	0	0	66.4247788	241.699115	-97.3451327	655.504425	262.044248	1768.10619	
TNS763067	Athyrium	nakanoi	1	0	0	0	1	1	1	1	0	0	146.543307	226.889764	48.2204724	1173.88189	268.23622	2640.30709	
TNS765794	Athyrium	neglectum	1	0	0	0	1	1	1	1	0	0	75	254.25	-92.875	774.333333	284.75	1970.58333	
TNS776396	Athyrium	nikkoense	1	0	0	0	1	1	1	1	0	0	84.5882353	265.588235	-95.4705882	709.058824	207.529412	1746.94118	
L0052442	Athyrium	niponicum	1	0	0	0	1	1	1	1	0	0	137.810621	289.539078	-15.6402806	627.95992	181.306613	1640.17234	
TNS766435	Athyrium	oblitescens	1	0	0	0	1	1	1	1	0	0	157.222222	341.222222	-10.2222222	703.111111	244.555556	1919.66667	
L0052444	Athyrium	otophorum	1	0	0	0	1	1	1	1	0	0	151.213793	295.565517	9.18965517	862.710345	235.806897	2229.56207	
TNS766465	Athyrium	pinetorum	1	0	0	0	1	1	1	1	0	0	63.375	241.6875	-113.25	830.5625	216.5625	2050.6875	
TNS763929	Athyrium	reflexipinnum	1	0	0	0	1	1	1	1	0	0	97.2149533	167.261682	2.89719626	1453.17757	251.439252	3332.03738	
TNS765177	Athyrium	rupestre	1	0	0	0	1	1	1	1	0	0	71.28125	253.625	-94.8125	668.78125	290.25	1809.96875	
eFlora of China	Athyrium	silvicola	1	0	0	0	1	1	1	1	0	0	170.554348	251.804348	73.423913	1203.44565	268.597826	2689.29348	
eFlora of China	Athyrium	strigillosum	1	0	0	0	1	1	1	1	0	0	141.2875	229.25	26.1625	918.1875	158.775	2021.7625	
eFlora of China	Athyrium	subrigescens	1	0	0	0	1	1	1	1	0	0	141.23301	217.339806	48.0679612	1206.97087	256.902913	2806.5534	
EIG5260	Athyrium	tozanense	1	0	0	0	1	1	1	1	0	0	140.9	211.741667	51.2916667	1569.08333	236.441667	3286.54167	
eFlora of China	Athyrium	vidalii	1	0	0	0	1	1	1	1	0	0	122.336336	274.582583	-25.9409409	719.308308	231.765766	1942.32533	
L0051076	Athyrium	wardii	1	0	0	0	1	1	1	1	0	0	140.311927	296.374312	-10.7412844	692.084404	210.466055	1871.7633	
L0175003	Athyrium	yokoscense	1	0	0	0	1	1	1	1	0	0	113.591691	278.52149	-47.213467	627.638968	217.75788	1722.41834	

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EIG18233	Austrogramme	decepiens	1	0	0	0	1	1	0	1	1	0	0	226.066667	296.266667	153.133333	736.666667	239.8	1780.33333
eFlora of North America	Azolla	caroliniana	0	0	0	0	0	1	1	0	0	0	0	173.589404	313.311258	52.4536424	403.55298	120.390728	1039.22185
Andrews 1990	Azolla	filiculoides	0	0	0	0	0	1	1	0	0	0	0	105.03003	219.046046	6.55655656	233.354354	145.302302	762.535354
WU42153	Azolla	imbricata	0	0	0	0	0	1	1	0	0	0	0	171.388889	272.944444	27.1666667	760.555556	58.2222222	1367.94444
eFlora of North America	Azolla	mexicana	0	0	0	0	0	1	1	0	0	0	0	138.554455	297.470297	-6.12376238	420.450495	87.0346535	945.683168
Crouch et al. 2011	Azolla	microphylla	0	0	0	0	0	1	1	0	0	0	0	219.085714	322.714286	124.771429	625.171429	84.1428571	1338.42857
Andrews 1990	Azolla	pinnata	0	0	0	0	0	1	1	0	0	0	0	198.379379	297.025025	88.8028028	516.524525	134.407407	1203.60861
Lindsay & Middleton 2016	Belvisia	henryi	0	1	1	0	0	0	0	1	1	1	1	216.181818	309.727273	96.2727273	1020.18182	154	2076
Lindsay & Middleton 2016	Belvisia	mucronata	0	1	1	0	0	0	0	1	1	1	1	210.118072	280.93012	133.954217	958.088942	289.725962	2284.48317
K000638837	Belvisia	platyrynchos	0	1	1	0	0	0	0	1	1	1	1	218.346154	278.615385	159.384615	1379.46154	201.384615	2995
Lindsay & Middleton 2016	Belvisia	spicata	0	1	1	0	0	0	0	1	1	1	1	182.258475	245.711864	117.610169	951.711864	298.389831	2400.7161
EIG9926	Blechnum	amabile	1	0	0	0	1	1	1	1	0	0	1	107.731884	271.572464	-51.2971014	708.731884	248.311594	1941.78261
Andrews 1990	Blechnum	articulatum	1	0	0	0	0	1	1	1	0	0	1	215.201923	296.826923	124.009615	1005.90385	91.9230769	1698.86538
MO3293013	Blechnum	brasiliense	1	0	0	0	1	1	1	1	0	0	1	212.041451	308.803109	113.015544	558.854922	250.341969	1631.94819
BR15529	Blechnum	capense	1	0	0	0	1	1	1	1	0	0	1	105.646647	208.852853	9.15315315	862.128128	614.657658	2975.43143
US00991456	Blechnum	cartilagineum	1	0	0	0	1	1	1	1	0	0	1	158.65966	261.49049	46.3243243	481.235235	179.835836	1280.49049
US00135458	Blechnum	castaneum	1	0	0	0	1	1	1	1	0	0	1	66.5714286	244.238095	-103.190476	818.47619	270	2016.19048
L3504999	Blechnum	chilense	1	0	0	0	1	1	1	1	0	0	1	123.608696	236.086957	33.8695652	486.391304	142.73913	1158.30435
US00945525	Blechnum	glandulosum	1	0	0	0	1	1	1	1	0	0	1	185.688705	263.534435	105.707989	850.225895	117.933884	1901.7989
K000442579	Blechnum	gracile	1	0	0	0	1	1	1	1	0	0	1	222	293.227074	152.79476	921.458515	213.598253	2313.99127
TAIF296602	Blechnum	hancockii	1	0	0	0	1	1	1	1	0	0	1	157.404255	235.680851	64.0638298	1469.34043	291.765957	3202.93617
ASU0002086	Blechnum	hastatum	1	0	0	0	1	1	1	1	0	0	1	107.75	245.416667	7.83333333	579.416667	98.5	1155.54167
US00991469	Blechnum	magellanicum	1	0	0	0	1	1	1	1	0	0	1	88.8125	196.15625	5.9375	674.875	237.9375	1693.1875
MO100207587	Blechnum	occidentale	1	0	0	0	1	1	1	1	0	0	1	211.747748	281.627628	141.778779	830.515516	160.791792	1989.70871
US00960683	Blechnum	orientale	1	0	0	0	1	1	1	1	0	0	1	251.128128	334.308308	151.241241	889.524525	131.978979	1730.23223
Andrews 1990	Blechnum	patersonii	1	0	0	0	0	1	1	1	0	0	1	146.448448	251.971972	36.7857858	461.977978	189.246246	1268.01101
US00945527	Blechnum	polypodioides	1	0	0	0	1	1	1	1	0	0	1	216.700535	291.085561	141.548128	855.55615	190.513369	2114.57219
MO1779707	Blechnum	schomburgkii	1	0	0	0	1	1	1	1	0	0	1	151.460733	216.858639	82.2617801	581.675393	192.005236	1522.90052
eFlora of North America	Blechnum	serrulatum	1	0	0	0	1	1	1	1	0	0	1	250.65602	320.788698	180.712531	911.663391	196.253071	2216.36855
MO100265125	Blechnum	simillimum	1	0	0	0	1	1	1	1	0	0	1	203.359375	281.609375	118.34375	876.90625	158.765625	1761.40625
eFlora of North America	Blechnum	spicant	1	0	0	0	0	1	1	1	0	0	1	73.0840841	181.883884	-17.5405405	418.447447	217.992993	1266.46346
K001092742	Blechnum	whelanii	1	0	0	0	1	1	1	1	0	0	1	203.686747	286.144578	112.108434	1083.51807	153.180723	2059.49398



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Andrews 1990	Blechnum	wurunuran	1	0	0	0	0	1	1	1	0	0	1	204.601942	289.902913	106.524272	1007.62136	118.291262	1789.02913
MO100435545	Blotiella	pubescens	1	0	0	0	1	0	1	1	0	0	1	190.956522	266.130435	110.826087	794.391304	135.26087	1558.43478
L3516691	Bolbitis	appendiculata	1	0	0	0	0	1	0	0	0	0	1	234.832258	307.290323	158.316129	1042.87742	270.793548	2464.30968
L3516491	Bolbitis	auriculata	1	0	0	0	0	0	0	0	0	0	1	239.598086	307.129187	175.679426	797.789474	140.516746	1857.05742
L3516395	Bolbitis	heteroclita	1	0	0	0	0	0	0	0	0	0	1	238.193333	300.99	172.056667	1011.86667	342.033333	2529.61333
L3516028	Bolbitis	nicotianifolia	1	0	0	0	0	0	0	0	0	0	1	247.694853	312.577206	189.628676	1213.33824	325.834559	3179.04779
K000668268	Bolbitis	quoyana	1	0	0	0	0	0	0	0	0	0	1	241.872807	302.596491	178.789474	1012.25	339.513158	2507.96053
L3515749	Bolbitis	repanda	1	0	0	0	0	0	0	0	0	0	1	219.086957	276.086957	160.782609	1095.47826	329	2930.73913
L3516515	Bolbitis	subcordata	1	0	0	0	0	0	0	0	0	0	1	209.54386	297.087719	115.263158	1200.32456	358.736842	2840.02632
K000633226	Bommeria	ehrenbergiana	1	0	0	0	1	1	0	1	0	0	0	195.533333	313.4	67.6666667	442.333333	41.7333333	814.733333
eFlora of North America	Bommeria	hispida	1	0	0	0	1	1	0	1	0	0	0	155.052174	322.095652	-4.68695652	286.226087	33.3217391	522.956522
eFlora of North America	Botrychium	ascendens	1	0	0	0	0	1	0	0	1	1	0	18.442623	209	-151.737705	326.786885	129.688525	854
eFlora of North America	Botrychium	bitematum	1	0	0	0	0	1	0	0	1	1	0	166.675676	333.972973	-10.6486486	423.972973	278.162162	1411.7027
eFlora of North America	Botrychium	boreale	1	0	0	0	0	1	0	0	1	1	0	3.93993994	160.321321	-132.194194	263.732733	129.668669	784.5996
eFlora of North America	Botrychium	campestre	1	0	0	0	0	1	0	0	1	1	0	32.2222222	253.444444	-177.555556	240	89.5555556	577
H1588314	Botrychium	crenulatum	1	0	0	0	0	1	0	0	1	1	0	29.78125	227.3125	-135.40625	280.875	85.96875	681.4375
MO3555851	Botrychium	dissectum	1	0	0	1	0	1	0	0	1	1	0	96.408	284.3	-92.834	319.158	227.022	1097.402
US00135832	Botrychium	echo	1	0	0	0	0	1	0	0	1	1	0	-2.45	197	-175.15	221.6	144.1	736.25
US01100686	Botrychium	hesperium	1	0	0	0	0	1	0	0	1	1	0	9.63333333	210.166667	-157.266667	240.233333	133.733333	730.633333
eFlora of China	Botrychium	japonicum	1	0	0	1	0	1	0	0	1	1	0	147.19888	298.663866	-3.81232493	685.711485	209.680672	1895.08403
eFlora of China	Botrychium	lanceolatum	1	0	0	0	0	1	0	0	1	1	0	14.5465465	182.545546	-136.994995	271.916917	121.903904	762.061061
K001057646	Botrychium	lanuginosum	1	0	0	1	0	1	0	0	1	1	0	163.766871	239.815951	76.7730061	879.386503	252.564417	2182.68098
eFlora of China	Botrychium	lunaria	1	0	0	0	0	1	0	0	1	1	0	36.0770771	168.836837	-78.4594595	374.366366	190.693694	1121.57457
eFlora of North America	Botrychium	lunarioides	1	0	0	1	0	1	0	0	1	1	0	194.9	359.6	15.9	477.1	308.2	1587.7
eFlora of North America	Botrychium	matricariifolium	1	0	0	1	0	1	0	0	1	1	0	56.7637638	212.533534	-78.960961	233.183183	123.971972	712.811812
US00135835	Botrychium	minganense	1	0	0	0	0	1	0	0	1	1	0	11.1086957	191.804348	-153.811594	328.931159	129.916667	866.40942
eFlora of North America	Botrychium	montanum	1	0	0	0	0	1	0	0	1	1	0	50.9428571	234.628571	-83.5428571	527.571429	123.628571	1204.37143
eFlora of North America	Botrychium	multifidum	1	0	0	1	0	1	0	0	1	1	0	22.2252252	204.497497	-146.338338	267.698699	117.766767	745.216216
eFlora of China	Botrychium	nipponicum	1	0	0	1	0	1	0	0	1	1	0	122.135135	290.162162	-44.8648649	621.972973	197.891892	1632.02703
eFlora of North America	Botrychium	oneidense	1	0	0	1	0	1	0	0	1	1	0	92.32	281.16	-90.76	324.72	262.68	1178.96
eFlora of North America	Botrychium	pallidum	1	0	0	0	0	1	0	0	1	1	0	10.7142857	231.785714	-212.214286	247.142857	87.2142857	604.428571
eFlora of North America	Botrychium	paradoxum	1	0	0	0	0	1	0	0	1	1	0	22.8571429	254.571429	-166.142857	228.285714	115.714286	664.714286

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eFlora of North America	Botrychium	pedunculosum	1	0	0	0	0	1	0	0	1	1	0	26.8461538	241.846154	-141.307692	272.923077	95.8461538	708.230769
eFlora of North America	Botrychium	pinnatum	1	0	0	0	0	1	0	0	1	1	0	9.18454936	185.291845	-141.772532	339.188841	128.107296	872.759657
US00135838	Botrychium	pumicola	1	0	0	0	0	1	0	0	1	1	0	35.5	239.8	-97	539.1	90.9	1157.1
BR13227715	Botrychium	schaffneri	1	0	0	1	0	1	0	0	1	1	0	147.815789	245.052632	45.3684211	601.236842	75.2368421	1174.5
eFlora of North America	Botrychium	simplex	1	0	0	1	0	1	0	0	1	1	0	48.9753846	196.621538	-77.5323077	302.904615	132.443077	852.381538
eFlora of North America	Botrychium	spathulatum	1	0	0	0	0	1	0	0	1	1	0	12.3157895	212.315789	-178.894737	316.684211	130.526316	814.842105
eFlora of China	Botrychium	strictum	1	0	0	1	0	1	0	0	1	1	0	137.891892	300.513514	-15.8918919	721.972973	219.540541	1945.91892
eFlora of North America	Botrychium	virginianum	1	0	0	1	0	1	0	0	1	1	0	75.3653654	244.940941	-91.2252252	366.2002	145.311311	1016.97798
Lindsay & Middleton 2016	Brainea	insignis	1	0	0	0	1	1	0	1	0	0	1	191.467626	272.733813	95.2805755	1184.34532	120.136691	2320.52518
Lindsay & Middleton 2016	Callistopteris	apiifolia	1	0	0	1	1	1	1	1	1	1	0	203.049383	269.222222	128.580247	1483.7284	336.246914	3154.09877
Large & Braggins 2004	Calochlaena	dubia	1	0	0	1	1	1	1	1	1	0	0	155.640641	259.587588	42.0730731	416.326326	186.012012	1193.46647
Large & Braggins 2004	Calochlaena	villosa	1	0	0	1	1	1	1	1	1	0	0	174.362416	241.47651	107.268456	897.449664	346.825503	2458.8255
Knapp 2011	Calymmodon	gracilis	0	1	0	0	1	1	1	1	1	1	0	203.077778	258.822222	144.411111	1291.8	314.811111	2923.68889
E00429070	Campyloneurum	angustifolium	0	1	1	0	1	0	0	1	1	1	1	178.791792	246.841842	110.548549	754.051051	188.596597	1889.54655
K000006941	Campyloneurum	aphanophlebium	0	1	1	0	1	0	0	1	1	1	1	243.207547	307.584906	183.132075	1134.61321	250.811321	2922.58491
B200093579	Campyloneurum	asplundii	0	1	1	0	1	0	0	1	1	1	1	158.688889	242.044444	60.9333333	545.477778	99.677778	1213.33333
Lellinger 1989	Campyloneurum	brevifolium	0	1	1	0	1	0	0	1	1	1	1	228.143302	295.068536	162.984424	999.700935	209.654206	2477.71651
K000061823	Campyloneurum	chlorolepis	0	1	1	0	1	0	0	1	1	1	1	234.411765	296.029412	174.598039	886.529412	472.22549	2700.39216
F1677776	Campyloneurum	latum	0	1	1	0	1	0	0	1	1	1	1	239.048387	302.951613	180.943548	1201.1129	369.25	3295.58871
Lellinger 1989	Campyloneurum	magnificum	1	0	1	0	1	0	0	1	1	1	1	226.028571	291.914286	166.285714	932.857143	294.542857	2414.71429
E00429069	Campyloneurum	phyllitidis	0	1	1	0	1	0	0	1	1	1	1	237.46044	303.76044	173.373626	901.474725	244.667033	2290.56813
Lellinger 1989	Campyloneurum	wercklei	0	1	1	0	1	0	0	1	1	1	1	191.663366	255.871287	131.485149	1269.50495	221.207921	3132.78218
Lellinger 1989	Campyloneurum	xalapense	0	1	1	0	1	0	0	1	1	1	1	198.418994	280.402235	116.469274	928.642458	116.653631	1993.15642
Ebihara et al. 2006	Cephalomanes	boryanum	1	0	0	0	1	1	1	1	1	1	0	276.066667	327.133333	229.066667	1091.66667	653.666667	3457.66667
Lindsay & Middleton 2016	Cephalomanes	javanicum	1	0	0	0	1	1	1	1	1	1	0	250.557895	305.242105	198.726316	967.768421	453.589474	2819.47368
Lellinger 1989	Ceradenia	jungermannioide	0	1	1	0	1	0	0	1	1	1	0	159.881356	217.610169	104.169492	1163.91525	256.016949	3015.47458
K000974371	Ceradenia	kalbreyeri	0	1	0	0	1	0	0	1	1	1	0	180.571429	241.222222	122.396825	1183.8254	319.31746	3114.74603
F2022392	Ceradenia	pilipes	0	1	0	0	1	0	0	1	1	1	0	151.666667	213.921569	86.8823529	942	207.588235	2383.33333
B200088721	Ceradenia	spixiana	0	1	0	0	1	0	0	1	1	1	0	174.96875	240.59375	106.84375	1005.6875	234.53125	2584.75
H1696014	Cheilanthes	acrostica	1	0	0	1	1	1	1	1	0	0	0	154.98278	297.696187	38.4243542	224.124231	47.2595326	540.813038
eFlora of North America	Cheilanthes	alabamensis	1	0	0	0	1	1	1	1	0	0	0	175.471264	319.724138	21.4712644	345.206897	105.91954	838.356322
Knapp 2011	Cheilanthes	argentea	1	0	0	0	1	1	1	1	0	0	0	130.096154	247.807692	-4.77884615	856.855769	139.384615	1828.15385
K000633235	Cheilanthes	aurantiaca	1	0	0	0	1	1	1	1	0	0	0	170.35	283.4	47.8	731.2	32.2	1193.1
eFlora of North America	Cheilanthes	bonariensis	1	0	0	0	1	1	1	1	0	0	0	158.00211	268.622363	41.6793249	438.685654	48.7637131	821.424051
K000633238	Cheilanthes	brachypus	1	0	0	0	1	1	1	1	0	0	0	234.738318	325.934579	147.065421	754.242991	31.0280374	1434.97196
H1490786	Cheilanthes	buchtienii	1	0	0	0	1	1	1	1	0	0	0	173.166667	311.111111	31.4444444	320.5	39.5555556	675.444444
eFlora of North America	Cheilanthes	covillei	1	0	0	1	1	1	1	1	0	0	0	139.535503	322.316568	-3.20414201	210.428994	21.5236686	432.573964

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K001057942	Cheilanthes	distans	1	0	0	0	1	1	1	1	0	0	168.233233	300.730731	32.7637638	295.772773	120.590591	788.442442	
eFlora of North America	Cheilanthes	eatonii	1	0	0	1	1	1	1	0	0	0	139.261438	306.79085	-20.0915033	247.297386	39.5359477	489.624183	
eFlora of North America	Cheilanthes	feei	1	0	0	1	1	1	1	0	0	0	101.250696	299.487465	-82.1281337	204.002786	75.2841226	537.247911	
eFlora of North America	Cheilanthes	fendleri	1	0	0	1	1	1	1	0	0	0	123.29703	302.851485	-41.1732673	242.262376	41.5544554	489.792079	
eFlora of North America	Cheilanthes	gracillima	1	0	0	0	1	1	1	0	0	0	62.0241935	238.75	-60.905914	568.473118	75.1317204	1196.14785	
eFlora of North America	Cheilanthes	horridula	1	0	0	0	1	1	1	0	0	0	207.636364	347.818182	49.8636364	227.227273	40.4545455	472.863636	
Knapp 2011	Cheilanthes	krameri	1	0	0	0	1	1	1	0	0	0	185.142857	272	80	1588.85714	154	3133.14286	
eFlora of North America	Cheilanthes	lanosa	1	0	0	0	1	1	1	0	0	0	141.795775	324.84507	-49.2112676	364.380282	203.690141	1168.92958	
eFlora of North America	Cheilanthes	lendigera	1	0	0	1	1	1	1	0	0	0	144.807692	251.591346	37.2307692	525.216346	69.9759615	1055.14904	
eFlora of North America	Cheilanthes	leucopoda	1	0	0	1	1	1	1	0	0	0	206.44186	337.813953	65	268.790698	31.6976744	525.627907	
ASU0002700	Cheilanthes	micropteris	1	0	0	0	1	1	1	0	0	0	194.0625	315.395833	78.2083333	446.270833	239.6875	1372.625	
K000435545	Cheilanthes	multifida	1	0	0	1	1	1	1	0	0	0	165.326316	269.940351	43.6491228	353.578947	48.1087719	750.270175	
Knobloch & Correll 1962	Cheilanthes	myriophylla	1	0	0	1	1	1	1	0	0	0	153.560102	249.654731	51.2531969	386.26087	57.6317136	787.588235	
eFlora of North America	Cheilanthes	newberryi	1	0	0	0	1	1	1	0	0	0	169.053191	317.93617	44.8829787	201.414894	10.6595745	372.223404	
Knobloch & Correll 1962	Cheilanthes	notholaenoides	1	0	0	0	1	1	1	0	0	0	175.62963	283.503704	62.3259259	486.437037	65.5703704	991.318519	
eFlora of North America	Cheilanthes	parryi	1	0	0	0	1	1	0	0	0	0	178.728767	371.526027	12.2273973	112.668493	40.4630137	310.506849	
eFlora of North America	Cheilanthes	parviloba	1	0	0	0	1	1	1	0	0	0	167.87395	289.243697	37.3361345	166.420168	60.9495798	433.579832	
eFlora of North America	Cheilanthes	pringlei	1	0	0	1	1	1	1	0	0	0	207.622951	369.42623	46.1639344	262	23.0327869	452.278689	
K001057993	Cheilanthes	sieberi	1	0	0	1	1	1	1	0	0	0	163.922923	298.653654	31.2072072	279.095095	136.024024	792.524525	
H1154499	Cheilanthes	skinneri	1	0	0	0	1	1	1	0	0	0	235.901408	341.619718	131.887324	736.507042	20.6197183	1278.04225	
eFlora of North America	Cheilanthes	tomentosa	1	0	0	1	1	1	1	0	0	0	154.081967	319.622951	-11.2131148	346.065574	124.213115	877.213115	
eFlora of North America	Cheilanthes	viridis	1	0	0	0	1	1	1	0	0	0	181.457048	272.929515	65.0099119	433.209251	75.2235683	970.468062	
eFlora of North America	Cheilanthes	wrightii	1	0	0	0	1	1	1	0	0	0	176.186992	347.04878	13.4552846	238.601626	27.2601626	450.674797	
eFlora of North America	Cheilanthes	yavapensis	1	0	0	1	1	1	1	0	0	0	174.333333	362.5	-1.375	183.833333	27.5	393.291667	
WU38721	Cheilosoria	hancockii	1	0	0	0	1	1	1	0	0	0	148.333333	246.894737	7.92982456	597.245614	39.0350877	1030.45614	
Lellinger 1989	Cheiroglossa	palmata	0	1	0	0	0	1	0	0	1	1	0	187.428571	251.160714	124.392857	1123.67857	274.696429	2905.08929
K000236675	Cheiropleuria	bicuspis	1	0	1	0	1	0	0	0	1	0	0	197.782051	266.669872	126.782051	1150.84295	383.054487	2882.6891
K000236652	Cheiropleuria	integrifolia	1	0	1	0	1	0	0	0	1	0	0	250.5	338	158.3	881.4	501.8	2710.3
Lindsay & Middleton 2016	Christella	arida	1	0	0	0	1	1	1	0	0	1	230.442953	296.134228	161.120805	1023.51678	346.09396	2574.58389	
Andrews 1990	Christella	hispidula	1	0	0	0	1	1	1	0	0	1	231.770186	299.391304	158.757764	914.993789	210.484472	2048.96273	
Lindsay & Middleton 2016	Christensenia	aesculifolia	1	0	0	0	1	0	0	1	1	0	1	252.75	302.294118	206.955882	979.205882	524.779412	3046.05882
MO100435834	Cibotium	barometz	1	0	0	1	1	1	1	0	0	0	202.597374	287.271335	104.2407	1062.72867	149.223195	2162.28884	
L1284220	Cibotium	chamissoi	1	0	0	1	1	1	1	0	0	0	209.266667	278.666667	143.866667	851.266667	461.733333	2604.6	
US00465520	Cibotium	glaucum	1	0	0	1	1	1	1	0	0	0	201.391304	268.956522	134.913043	913.043478	464.043478	2752.69565	
L1284291	Cibotium	schiedei	1	0	0	1	1	1	1	0	0	0	207.7	303.9	110.5	863.5	160.5	1806.8	
Lellinger 1989	Cochlidium	rostratum	0	1	1	0	1	1	0	1	1	1	0	178.353383	242.090226	117.654135	1142.23308	250.067669	2947.76692
F2232975	Cochlidium	serrulatum	0	1	0	0	1	1	0	1	1	1	0	225.172414	292.224138	163.8125	1077.37716	264.023707	2742.31034
K000959621	Colysis	digitata	1	0	0	0	1	0	0	1	1	1	1	234.088889	319.933333	130.333333	983.688889	103.733333	1887.53333

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Lindsay & Middleton 2016	Colysis	elliptica	1	0	0	0	0	0	0	0	1	1	1	187.779335	295.094571	69.8791594	936.236427	206.229422	2134.97898
K000959624	Colysis	hemionitidea	1	0	1	0	1	0	0	1	1	1	1	181.914439	269.058824	79.4385027	1178.5615	201.187166	2468.75401
K000959634	Colysis	henryi	0	1	1	0	1	0	0	1	1	1	1	178.1	306.2	45.6166667	750.383333	155	1638.01667
Lindsay & Middleton 2016	Colysis	pothifolia	1	0	0	0	0	0	0	0	1	1	1	203.114035	300.096491	97.6578947	1053.96491	254.596491	2357.00877
E00661808	Colysis	simplicifrons	0	1	1	0	1	0	0	1	1	1	1	167.872093	301	30.0930233	895.616279	269.569767	2446.46512
K000959630	Colysis	wrightii	0	1	1	0	1	0	0	1	1	1	1	203.097436	288.089744	109.625641	1222.77949	309.438462	2757.12308
Lindsay & Middleton 2016	Coniogramme	fraxinea	1	0	0	0	1	1	0	0	0	0	0	202.51875	274.36875	116.7125	1163.94375	185.9875	2449.6625
Lindsay & Middleton 2016	Coniogramme	intermedia	1	0	0	0	1	1	0	0	0	0	0	141.124069	266.604218	9.03225806	876.218362	202.21464	2109.00372
Knapp 2011	Coniogramme	japonica	1	0	0	0	1	0	0	0	0	0	0	151.919246	293.040377	10.6096904	755.77389	212.831763	1960.38089
L0051167	Cornopteris	banahaensis	1	0	0	0	1	1	0	1	0	0	1	148.92	222.133333	58.9	1364.69333	237.546667	2935.55333
eFlora of China	Cornopteris	christenseniana	1	0	0	0	1	1	0	1	0	0	1	117.393258	272.370787	-44.2247191	729.842697	198.303371	1961.85393
eFlora of China	Cornopteris	crenulatoserrulata	1	0	0	0	1	1	0	1	0	0	1	86.0952381	261.547619	-76.1111111	639.150794	258.952381	1764.1746
H1203202	Cosentinia	vellea	1	0	0	0	1	1	0	1	0	0	0	163.217808	310.112329	46.8356164	212.683562	35.439726	513.408219
Andrews 1990	Crepidomanes	aphlebioides	1	0	0	1	0	1	1	1	1	1	0	257.833333	310.059524	207.392857	1089.91667	526.702381	3058.13095
Lindsay & Middleton 2016	Crepidomanes	bipunctatum	0	1	0	1	1	1	1	1	1	1	0	236.164271	306.821355	156.765914	1178.93429	190.735113	2293.58316
Lindsay & Middleton 2016	Crepidomanes	humile	1	0	0	0	1	1	1	1	1	1	0	233.208791	303.978022	153.956044	1231.65934	229.538462	2465.49451
Lindsay & Middleton 2016	Crepidomanes	kurzii	1	0	0	0	1	1	1	1	1	1	0	229.076923	306.641026	138.128205	1411.64103	214.615385	2685.41026
Lindsay & Middleton 2016	Crepidomanes	latealatum	0	1	0	0	1	1	1	1	1	1	0	160.567742	289.3	28.6516129	867.048387	223.948387	2161.14839
Lindsay & Middleton 2016	Crepidomanes	latemarginale	1	0	0	0	1	1	1	1	1	1	0	216	303.666667	120.466667	1300.66667	306.333333	2912.4
Lindsay & Middleton 2016	Crepidomanes	minutum	0	1	0	0	1	1	1	1	1	1	0	173.892473	288.091398	61.233871	811.411765	292.382353	2267.01872
Andrews 1990	Crepidomanes	vitiense	0	1	0	0	1	1	1	1	1	1	0	193.057692	284.5	85.4038462	759.173077	185.403846	1726.03846
H1122502	Cryptogramma	acrostichoides	1	0	0	0	0	1	0	0	0	0	0	33.2847534	204.617713	-105.013453	459.726457	119.621076	1085.43049
Knapp 2011	Cryptogramma	brunoniana	1	0	0	1	0	1	0	0	0	0	0	62.6694215	157	-59.8347107	969.206612	162.859504	2192.54545
H1682821	Cryptogramma	crispa	1	0	0	1	0	1	0	0	0	0	0	35.961962	151.049049	-59.0720721	526.810811	258.445445	1562.84885
Knapp 2011	Cryptogramma	stelleri	1	0	0	0	0	1	0	0	0	0	0	24.5905172	200.844828	-151.543103	354.159483	129.693966	922.969828
L3530585	Ctenitis	eatonii	1	0	0	0	1	1	1	1	0	0	1	203.472868	284.093023	114.627907	1176.65116	314.565891	2705.89147
L3530307	Ctenitis	sloanei	1	0	0	0	1	1	1	1	0	0	1	225.619565	295.141304	157.619565	958.184783	170.956522	2276.72826
eFlora of China	Ctenitis	subglandulosa	1	0	0	1	1	1	1	1	0	0	1	193.643875	279.700855	100.646724	1136.37892	320.390313	2693.82621
U1014063	Ctenitis	submarginalis	1	0	0	0	1	1	1	1	0	0	1	207.367089	303.056962	108.892405	554.037975	256.208861	1613.5
K001080696	Ctenitopsis	fuscipes	1	0	0	0	0	1	1	0	0	0	1	217.388889	295.138889	118.583333	1719.88889	79.4166667	2876.97222
E00208908	Ctenopteris	heterophylla	0	1	0	0	0	0	0	1	1	1	1	110.233233	213.544545	15.5965966	983.587588	713.863864	3453.33233
EIG18230	Ctenopteris	lasiostipes	0	1	0	0	1	0	0	1	1	1	1	231	309.833333	150.833333	938.666667	323.333333	2315.33333
Parris et al. 2010	Ctenopteris	nutans	0	1	0	0	1	1	0	1	1	1	1	150.914286	213.385714	91.9714286	979.871429	441.457143	2859.48571
K001040235	Ctenopteris	repandula	0	1	0	0	1	0	0	1	1	1	1	219.6	280.78	162.9	1087.26	397.36	2813.76

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Large & Braggins 2004	Cyathea	alata	1	0	0	0	1	1	1	1	1	0	0	225.038462	289	158.923077	868.115385	328.923077	2157.57692
K000009959	Cyathea	appendiculata	1	0	0	1	1	1	1	1	1	0	0	172.297297	258.972973	75.5135135	829.135135	98.3783784	1514.27027
Large & Braggins 2004	Cyathea	arborea	1	0	0	0	1	1	1	1	1	0	0	229.848485	296.373737	159.484848	656.959596	211.414141	1766.76768
LISC000033	Cyathea	auriculata	1	0	0	1	1	1	1	1	1	0	0	213.588235	294.823529	127.411765	846.411765	181.470588	1791.82353
W97260	Cyathea	boivinii	1	0	0	1	1	1	1	1	1	0	0	192.394137	269.319218	107.599349	836.713355	128.947883	1626.42997
L1283596	Cyathea	borbonica	1	0	0	0	1	1	1	1	1	0	0	200.075472	269.622642	129.358491	762.679245	154.981132	1598.4717
Large & Braggins 2004	Cyathea	caracasana	1	0	0	0	1	1	1	1	1	0	0	179.630631	237.035035	123.36036	643.3003	191.587588	1794.02803
P00411677	Cyathea	concava	1	0	0	0	1	1	1	1	1	0	0	197.633333	281.266667	108.4	946.933333	189.466667	1899
K000589944	Cyathea	divergens	1	0	0	0	1	1	1	1	1	0	0	185.606061	251.320346	121.549784	980.930736	202.87013	2413.09091
K000061819	Cyathea	dregei	1	0	0	1	1	1	1	1	1	0	0	190.198413	276.428571	95.984127	773.436508	62.5079365	1480.2381
K001109480	Cyathea	excelsa	1	0	0	1	1	1	1	1	1	0	0	182.478261	249.521739	121.130435	776.521739	210.347826	1807.56522
Large & Braggins 2004	Cyathea	fadenii	1	0	0	0	1	1	1	1	1	0	0	240.666667	319.761905	147.428571	519.761905	59.0952381	1112.52381
Large & Braggins 2004	Cyathea	furfuracea	1	0	0	0	1	1	1	1	1	0	0	219.42268	285	149.958763	639.340206	187.257732	1671.09278
US00066313	Cyathea	glauca	1	0	0	1	1	1	1	1	1	0	0	168.3	232.8	109.7	751.375	201.1	1733.8
Large & Braggins 2004	Cyathea	gracilis	1	0	0	0	1	1	1	1	1	0	0	200.467742	261.580645	141.854839	1174.74194	433.790323	3344.75806
Large & Braggins 2004	Cyathea	grangaudiana	1	0	0	0	1	1	1	1	1	0	0	209.6	279.866667	142.666667	866.8	230.4	2005.8
K000061689	Cyathea	hancockii	1	0	0	0	1	1	1	1	1	0	0	194.88	290.98	92.48	1190.64	452.18	3021.34
K000009951	Cyathea	hildebrandtii	1	0	0	1	1	1	1	1	1	0	0	208.138889	276.694444	131.361111	913.805556	130.277778	1761.22222
Large & Braggins 2004	Cyathea	humilis	1	0	0	0	1	1	1	1	1	0	0	220.979167	300.270833	136.125	613.166667	68.0208333	1272.41667
K000009946	Cyathea	kirkii	1	0	0	1	1	1	1	1	1	0	0	256	308.3125	193.125	974.75	256.9375	2331.8125
K000009941	Cyathea	lastii	1	0	0	1	1	1	1	1	1	0	0	210.840909	288.568182	121.386364	1009.02273	78.2727273	1734.81818
K000721562	Cyathea	lepifera	1	0	0	1	1	1	1	1	1	0	0	207.077901	289.605723	119.596184	1358.90143	350.324324	3029.41335
K000009938	Cyathea	ligulata	1	0	0	0	1	1	1	1	1	0	0	220.2	302.066667	134.666667	937.133333	211.266667	1969.06667
Large & Braggins 2004	Cyathea	manniana	1	0	0	0	1	1	1	1	1	0	0	204.541176	278.843137	135.003922	781.380392	120.501961	1811.40784
Large & Braggins 2004	Cyathea	marattioides	1	0	0	0	1	1	1	1	1	0	0	232.705882	302.794118	159.735294	1092.61765	262	2508.85294
K000061822	Cyathea	melleri	1	0	0	0	1	1	1	1	1	0	0	196.46789	277	108.486239	832.642202	139.275229	1600.91743
Large & Braggins 2004	Cyathea	metteniana	1	0	0	1	1	1	1	1	1	0	0	194.917031	284.148472	99.4366812	1208.82096	355.921397	2862.97817
K000589971	Cyathea	multiflora	1	0	0	0	1	1	1	1	1	0	0	236.985447	300.652807	178.681913	1281.01247	312.669439	3324.11435
K000589801	Cyathea	parvula	1	0	0	0	1	1	1	1	1	0	0	226.263636	294.254545	154.409091	596.181818	188.872727	1613.05455
Large & Braggins 2004	Cyathea	perrieriana	1	0	0	0	1	1	1	1	1	0	0	209	286.655172	130.172414	942.827586	213.310345	2085.34483
K000061678	Cyathea	podophylla	1	0	0	0	1	1	1	1	1	0	0	195.909091	282.140152	102.174242	1193.67803	376.272727	2910.39015
Large & Braggins 2004	Cyathea	poeppigii	1	0	0	1	1	1	1	1	1	0	0	219.330769	286.453846	157.915385	950.892308	280.930769	2470.90769

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K000009930	Cyathea	poolii	1	0	0	1	1	1	1	1	1	0	0	188.095238	269.22619	97.5119048	846.47619	123.02381	1566.92857
K000061756	Cyathea	robertsiana	1	0	0	1	1	1	1	1	1	0	0	210.857143	294.615764	113.714286	1011.80296	110.748768	1775.59606
Large & Braggins 2004	Cyathea	schiedeana	1	0	0	0	1	1	1	1	1	0	0	226.015038	299.105263	155.210526	1054.58647	202.864662	2538.19549
Large & Braggins 2004	Cyathea	schliebenii	1	0	0	0	1	1	1	1	1	0	0	246.823529	327.823529	151.176471	463.764706	45.7058824	990.647059
Large & Braggins 2004	Cyathea	senilis	1	0	0	0	1	1	1	1	1	0	0	280.5	356.166667	213.666667	933.75	145	2030.33333
K000009925	Cyathea	serratifolia	1	0	0	0	1	1	1	1	1	0	0	207.661017	287.474576	122.237288	923.881356	185.491525	1870.16949
K000009916	Cyathea	similis	1	0	0	0	1	1	1	1	1	0	0	192.223529	271.811765	104.747059	889.964706	133.476471	1680.18824
K000589762	Cyathea	stipularis	1	0	0	0	1	1	1	1	1	0	0	203.558824	270.441176	142.205882	1335.67647	244.882353	3330.82353
B200130882	Cyathea	viguieri	1	0	0	0	1	1	1	1	1	0	0	203.688889	282.866667	118.377778	894.377778	159.911111	1788.35556
Large & Braggins 2004	Cyathea	walkerae	1	0	0	1	1	1	1	1	1	0	0	244.875	321.375	180	1057.5	420	2953.875
H1562983	Cyclopeltis	semicordata	1	0	0	0	1	1	1	1	0	0	1	255.293566	319.101877	194.674263	1023.81099	207.823056	2526.07507
TAI004361	Cyrtogonellum	fraxinellum	1	0	0	0	1	1	1	1	0	0	1	167.37037	255.481481	61.1851852	931.962963	221.777778	2162.33333
L3532186	Cyrtomidictyum	lepidocaulon	1	0	0	0	1	1	1	1	0	0	1	166.259124	264.945255	56.919708	1083.56204	197.832117	2417.60219
eFlora of China	Cyrtomium	caryotideum	1	0	0	0	1	0	1	1	0	0	1	144.057229	246.891566	20.5271084	884.189759	139.319277	1906.9006
eFlora of China	Cyrtomium	devexiscapulae	1	0	0	0	1	1	1	1	0	0	1	147.443124	298.259762	-1.1188455	718.767402	208.876061	1880.24278
eFlora of North America	Cyrtomium	falcatum	1	0	0	0	1	0	1	1	0	0	1	158.746747	283.746747	37.2092092	709.520521	277.326326	1974.70771
Lindsay & Middleton 2016	Cyrtomium	fortunei	1	0	0	0	1	0	1	1	0	0	1	151.515516	303.031031	1.25125125	640.692693	165.256256	1633.72573
K000501473	Cyrtomium	hookerianum	1	0	0	0	1	0	1	1	0	0	1	154.271318	239.670543	52.5077519	1128.79845	232.864341	2516.78682
eFlora of China	Cyrtomium	macrophyllum	1	0	0	0	1	0	1	1	0	0	1	144.913462	275.467949	6.60897436	782.516026	165.730769	1846.57692
K001089209	Cystopteris	fragilis	1	0	0	0	1	1	1	1	0	0	1	35.7037037	187.457457	-97.1511512	433.858859	195.974975	1222.86987
eFlora of North America	Cystopteris	reevesiana	1	0	0	1	1	1	1	1	0	0	1	77.3205128	261.846154	-94.4102564	268.128205	68.1153846	566
K001089202	Cystopteris	sudetica	1	0	0	1	1	1	1	1	0	0	1	22.7152778	184.423611	-125.201389	308.159722	93.25	766.083333
Lellinger 1989	Danaea	carillensis	1	0	1	0	0	1	0	1	1	0	1	232.23913	301.021739	171.543478	1263.1087	326.26087	3418.91304
Lellinger 1989	Danaea	crispa	1	0	0	0	0	1	0	1	1	0	1	242.881356	308.440678	185.474576	1281.16949	406.067797	3597.10169
Lellinger 1989	Danaea	elliptica	1	0	0	0	0	1	0	1	1	0	1	235.153094	303.433225	170.104235	973.625407	274.107492	2542.44625
B200082676	Danaea	erecta	1	0	0	0	0	1	0	1	1	0	1	240.142857	312.571429	172.428571	1124.71429	488.571429	3139.57143
OTS-LSHERB-007094	Danaea	geniculata	1	0	0	0	0	1	0	1	1	0	1	222.714286	299.357143	142.642857	883.035714	216.714286	2144.14286
Tryon & Tryon 1982	Danaea	grandifolia	1	0	0	0	0	1	0	1	1	0	1	236	298.75	177.7	1094.4	364.85	3081.5
US00135878	Danaea	leprieurii	1	0	0	0	0	1	0	1	1	0	1	265.5625	328.96875	209.90625	1146.65625	336.5	3017.53125
OTS-LCHERB-003913	Danaea	longicaudata	1	0	0	0	0	1	0	1	1	0	1	271.833333	335	213.666667	1506.5	219.666667	2931.33333
OTS-LSHERB-003804	Danaea	media	1	0	0	0	0	1	0	1	1	0	1	256	325.315789	191.631579	1167.05263	186.789474	2772.47368
Lellinger 1989	Danaea	moritziana	1	0	0	0	0	1	0	1	1	0	1	218.755814	283.736434	156.255814	1082.73643	326.724806	2894.01163
Lellinger 1989	Danaea	nodosa	1	0	0	0	0	1	0	1	1	0	1	240.505938	305.007126	179.102138	1067.97625	366.007126	2899.49881

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US00048711	Danaea	oblanceolata	1	0	0	0	0	1	0	1	1	0	1	230.794118	293.647059	170.764706	952.147059	561.970588	3009.05882
Christenhusz 2010	Danaea	polymorpha	1	0	0	0	0	1	0	1	1	0	1	276.444444	349.222222	220	1141.55556	284.111111	2925
Tryon & Tryon 1982	Danaea	simplicifolia	1	0	1	0	0	1	0	1	1	0	1	257.732143	320.401786	207.625	1129.99107	292.732143	2908.125
BR6870706	Danaea	trichomanoides	1	0	0	0	0	1	0	1	1	0	1	248.2	327.7	177.9	771.7	486.4	2477.8
K001109655	Davallia	chaerophylloides	0	1	0	1	1	1	1	1	1	1	1	236.505102	302.785714	170.826531	718.816327	112.867347	1713.47959
K000228393	Davallia	corniculata	0	1	0	0	1	1	1	1	1	1	1	217.052632	274.631579	160.684211	1020.78947	460.315789	2987.68421
Andrews 1990	Davallia	denticulata	0	1	0	1	1	1	1	1	1	1	1	239.115453	302.193606	173.740675	889.206039	237.225577	2083.00888
K000228398	Davallia	divaricata	0	1	0	1	1	1	1	1	1	1	1	219.527273	281.122727	155.963636	1033.46818	346.372727	2638.77727
US01169344	Davallia	embolostegia	0	1	0	1	1	1	1	1	1	1	1	220.357143	273.464286	170.464286	1042	337.75	2842.57143
TAIF337390	Davallia	formosana	0	1	0	1	1	1	1	1	1	1	1	194.974359	273.564103	101.410256	1207.14103	117.128205	2366.66667
K000061860	Davallia	mariesii	0	1	0	1	1	1	1	1	1	1	1	150.640449	270.848315	24.6797753	1017.68539	221.269663	2340.22472
L0175033	Davallia	trichomanoides	0	1	0	1	1	1	1	1	1	1	1	198.567073	261.103659	134.890244	973.79878	379.957317	2683.53049
K000491108	Davallodes	borneense	0	1	0	0	1	1	1	1	1	1	1	250.15625	295.53125	208.78125	1002.15625	552.90625	3113.71875
K000490818	Davallodes	hirsutum	0	1	0	0	1	1	1	1	1	1	1	230.715909	284.261364	181.193182	968.102273	397.215909	2779.52273
U0095406	Dennstaedtia	dissecta	1	0	0	0	1	1	1	1	0	0	0	209.451957	275.864769	144.309609	1029.13879	246.80427	2596.8968
TAIF288077	Dennstaedtia	hirsuta	1	0	0	0	1	1	1	1	0	0	0	135.742911	282.746692	-12.5085066	742.36862	202.145558	1920.00756
MO3555857	Dennstaedtia	punctilobula	1	0	0	0	1	1	1	1	0	0	0	81.3105134	263.99511	-99.5550122	328.757946	245.105134	1146.21516
K000913890	Dennstaedtia	scabra	1	0	0	1	1	1	1	1	0	0	0	154.957346	273.056872	32.7235387	975.592417	234.902054	2323.58926
TNS768165	Deparia	conillii	1	0	0	0	1	1	1	1	0	0	1	124.257212	286.610577	-34.4519231	616.978365	212.661058	1721.03846
TNS764256	Deparia	dimorphophylla	1	0	0	0	1	1	1	1	0	0	1	146.58156	299.397163	-5.40070922	669.716312	205.953901	1873.78723
EIG3662	Deparia	fenzliana	1	0	0	0	1	1	1	1	0	0	1	201.714286	273.142857	132.428571	674.142857	268	1870.14286
TNS763869	Deparia	japonica	1	0	0	0	1	1	1	1	0	0	1	155.924769	293.119213	19.1354167	762.59838	234.555556	1966.76505
TNS764364	Deparia	kiusiana	1	0	0	0	1	1	1	1	0	0	1	137.766667	285.8	-12.1666667	903.566667	229.1	2270.8
TNS763644	Deparia	lancea	1	0	1	0	1	1	1	1	0	0	1	169.313433	306.149254	33.8358209	874.223881	253.552239	2263.76119
L0051542	Deparia	petersenii	1	0	0	0	1	1	1	1	0	0	1	171.171388	277.771955	58.2733711	802.038136	246.716102	2038.10876
EIG3794	Deparia	prolifera	1	0	0	0	1	1	1	1	0	0	1	234.266667	300.466667	170.8	831.066667	508.6	2653.6
L1258828	Diacalpe	aspidioides	1	0	0	1	1	1	1	1	0	0	1	168.483333	243.2	71.7722222	1051.60556	174.983333	2281.94444
Large & Braggins 2004	Dicksonia	antarctica	1	0	0	1	1	1	1	1	1	0	0	126.790791	237.816817	19.4894895	369.524525	192.018018	1125.34835
Large & Braggins 2004	Dicksonia	baudouinii	1	0	0	1	1	1	1	1	1	0	0	202.333333	284.833333	117.833333	755.75	296.583333	1984.83333
Large & Braggins 2004	Dicksonia	fibrosa	1	0	0	1	1	1	1	1	1	0	0	106.47619	209.711111	14.247619	650.742857	453.234921	2205.46984
Lellinger 1989	Dicksonia	gigantea	1	0	0	1	1	1	1	1	1	0	0	174.802632	243.052632	108.105263	1265.30263	303.289474	3244.28947
Large & Braggins 2004	Dicksonia	lanata	1	0	0	1	0	1	1	1	1	0	0	104.408482	208.513393	13.0558036	700.513393	485.542411	2363.7567

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Large & Braggins 2004	Dicksonia	squarrosa	1	0	0	1	1	1	1	1	1	0	0	108.630631	211.408408	13.019019	920.477477	671.796797	3216.86887
Large & Braggins 2004	Dicksonia	thyrsopteroides	1	0	0	1	1	1	1	1	1	0	0	217.1	282.95	149.5	905.35	297.45	2150.4
K000945898	Dicranoglossum	desvauxii	0	1	0	0	1	0	0	1	1	1	1	249.402235	312.843575	192.212291	995.558659	325.653631	2651.75419
Lellingner 1989	Dicranoglossum	panamense	0	1	0	0	1	0	0	1	1	1	1	253.05	315.393333	197.31	1221.88	228.913333	3039.35
Lellingner 1989	Dicranopteris	flexuosa	1	0	0	0	1	1	0	1	1	0	0	223.284024	292.946746	151.647929	813.97929	185.813609	1991.47929
Lindsay & Middleton 2016	Dicranopteris	linearis	1	0	0	0	1	1	0	1	1	0	0	233.321321	323.702703	127.982983	840.877878	89.2322322	1610.94895
Andrews 1990	Dictymia	brownii	0	1	1	0	1	0	0	1	1	1	1	156.527528	264.960961	35.1731732	525.499499	158.137137	1297.76476
K000951543	Dictyocline	griffithii	1	0	0	0	1	0	0	0	0	0	1	184.784753	269.591928	90.3587444	1388.09417	341.008969	3095.91928
Lindsay & Middleton 2016	Didymochlaena	truncatula	1	0	0	0	1	1	1	1	0	0	1	213.967968	283.122122	144.894895	864.111111	293.465465	2329.87788
Lellingner 1989	Didymoglossum	hymenoides	0	1	0	0	1	1	1	1	1	1	0	213.553191	289.914894	136.819149	841.12766	273.617021	2200.11702
Lellingner 1989	Didymoglossum	kapplerianum	1	0	0	0	1	1	1	1	1	1	0	246.558824	310.539216	193.431373	1097.59804	318.088235	2891.26471
Lellingner 1989	Didymoglossum	krausii	0	1	0	0	1	1	1	1	1	1	0	231.047619	299.470899	167.814815	957.52381	217.920635	2410.88889
Lellingner 1989	Didymoglossum	membranaceum	0	1	0	0	1	1	1	1	1	1	0	240.977695	302.717472	183.178439	1057.96654	330.69145	2862.61338
Lellingner 1989	Didymoglossum	punctatum	0	1	0	0	1	1	1	1	1	1	0	247.025773	310.917526	187.412371	1011.92268	306.896907	2696.19072
Lellingner 1989	Didymoglossum	reptans	0	1	0	0	1	1	1	1	1	1	0	188.382353	272.058824	78.9705882	597.205882	85.0294118	1286.02941
eFlora of China L3533108	Diplaziopsis	cavaleriana	1	0	0	0	1	0	1	1	0	0	1	167.166667	313.25	14.1666667	670.916667	108.5	1432.58333
	Diplazium	amamanum	1	0	0	1	1	1	1	1	0	0	1	168.896648	245.756983	78.726257	1247.5	282.337989	2817.18994
F1940605	Diplazium	bombonasae	1	0	0	0	1	1	1	1	0	0	1	229.15873	291.666667	169.809524	920.460317	569.095238	2939.8254
U0088752	Diplazium	centripetale	1	0	0	0	1	1	1	1	0	0	1	226.25	298.375	149.833333	707.375	210.875	1831.79167
K001089309	Diplazium	chinense	1	0	0	1	1	1	1	1	0	0	1	174.954545	293.181818	51.7181818	1018.9	263.3	2471.97273
eFlora of China	Diplazium	crassiusculum	1	0	0	0	1	1	1	1	0	0	1	194.175	315.225	59.95	771.45	140.45	1669.1
U0067082	Diplazium	cristatum	1	0	0	0	1	1	1	1	0	0	1	218.845411	295.270531	142.528986	847.871981	203.497585	2097.80676
eFlora of China	Diplazium	doederleinii	1	0	0	0	1	1	1	1	0	0	1	189.374046	269.727735	99.3816794	1433.90076	320.043257	3105.88804
eFlora of China	Diplazium	donianum	1	0	0	0	1	1	1	1	0	0	1	203.54898	288.293878	110.85102	1220.29184	316.477551	2775.93265
eFlora of China	Diplazium	esculentum	1	0	0	0	1	0	1	1	0	0	1	224.841629	289.936652	156.031674	969.176471	325.072398	2442.16742
K001089388	Diplazium	griffithii	1	0	0	0	1	1	1	1	0	0	1	197.617647	289.588235	103.617647	1055.02941	483.617647	2950.79412
eFlora of China	Diplazium	hachijoense	1	0	0	0	1	1	1	1	0	0	1	157.261146	294.719745	14.8726115	912.630573	250.579618	2413.01911
Knapp 2011	Diplazium	incomptum	1	0	0	0	1	1	1	1	0	0	1	207.709091	292.654545	117.090909	1117.69091	435.218182	2914.8
Knapp 2011	Diplazium	kawakamii	1	0	0	1	1	1	1	1	0	0	1	157.393401	231.068528	67.8401015	1539.82995	247.005076	3175.96701
L0051548	Diplazium	lobatum	1	0	0	0	1	1	1	1	0	0	1	215.550562	296.662921	127.325843	1149.01124	343.606742	2710.59551
MO13168	Diplazium	lonchophyllum	1	0	0	0	1	1	1	1	0	0	1	213.022388	288.485075	138.574627	1006.40299	186.029851	2330.17164
L0052441	Diplazium	mettenianum	1	0	0	0	1	1	1	1	0	0	1	169.8361	277.844398	56.1618257	1109.16598	290.325726	2699.52075
eFlora of China	Diplazium	nipponicum	1	0	0	0	1	1	1	1	0	0	1	133.694301	292.948187	-15.3989637	736.165803	256.108808	2032.97409
U0064257	Diplazium	plantaginifolium	1	0	1	0	1	1	1	1	0	0	1	220.863415	292.434146	151.331707	952.829268	164.682927	2272.84878
L0051567	Diplazium	proliferum	1	0	0	0	1	0	1	1	0	0	1	242.016129	304.129032	182.544355	878.737903	297.048387	2322.12097



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L0051569	Diplazium	pullingeri	1	0	0	0	1	1	1	1	0	0	1	177.936416	262.913295	85.4566474	1318.42197	424.468208	3243.80925
K001089405	Diplazium	sibiricum	1	0	0	1	1	1	1	1	0	0	1	18.747449	197.705357	-142.423469	274.251276	104.082908	737.014031
Knapp 2011	Diplazium	squamigerum	1	0	0	0	1	1	1	1	0	0	1	125.106643	281.34965	-28.5454545	691.409091	224.386364	1882.1521
L0051577	Diplazium	subserratum	1	0	1	0	1	1	1	1	0	0	1	234.24	291.8	178.68	1035.92	424.6	2961.96
Lindsay & Middleton 2016	Diplazium	taiwanense	1	0	0	0	1	1	1	1	0	0	1	212.314286	309.342857	117.514286	1081.72857	663.371429	3335.7
L0175049	Diplazium	virescens	1	0	0	0	1	1	1	1	0	0	1	189.130435	294.603865	81.0966184	1111.54348	416.23913	2970.39372
L0052428	Diplazium	wichurae	1	0	0	0	1	1	1	1	0	0	1	156.745592	282.720403	27.5944584	926.476071	248.297229	2336.17884
Lellinger 1989	Diplopterygium	bancroftii	1	0	0	0	1	1	0	1	1	0	0	176.014388	245.093525	106.935252	805.338129	198.539568	2011.23022
Lindsay & Middleton 2016	Diplopterygium	blotianum	1	0	0	0	1	1	0	1	1	0	0	206.163636	284	117.354545	1149.93636	159.5	2341.79091
Knapp 2011	Diplopterygium	chinensis	1	0	0	0	1	1	0	1	1	0	0	184.208333	272.861111	86.3333333	1222.67361	311.659722	2824.35417
Knapp 2011	Diplopterygium	glaucum	1	0	0	0	1	1	0	1	1	0	0	168.608333	264.8875	60.1125	1279.77917	215.170833	2649.8625
Knapp 2011	Diplopterygium	laevissimum	1	0	0	0	1	1	0	1	1	0	0	159.90625	262.96875	47.125	941.4	261.45	2276.425
K000491163	Dipteris	conjugata	1	0	0	0	1	0	0	1	1	0	1	215.007553	278.705438	150.169184	1039.20846	401.543807	2722.03625
K000490381	Dipteris	lobbiana	1	0	0	0	1	0	0	1	1	0	1	252.587302	299.952381	209.198413	991.253968	556.619048	3037.06349
E00146970	Doodia	aspera	1	0	0	0	1	1	1	1	0	0	1	157.205205	262.726727	41.8738739	412.683684	173.247247	1162.84585
US00467613	Doodia	kunthiana	1	0	0	0	1	1	1	1	0	0	1	211.409091	277	146.909091	590.181818	285.409091	1731.5
K001092767	Doodia	maxima	1	0	0	0	1	1	1	1	0	0	1	186.277778	293.277778	61.8888889	522.777778	167.111111	1333.88889
US00991474	Doodia	media	1	0	0	0	1	1	1	1	0	0	1	207.625344	291.504132	116.008264	876.168022	158.384824	1735.74797
U0015923	Doryopteris	collina	1	0	0	0	0	1	1	1	0	0	0	223.528571	305.171429	137.971429	597.614286	139.942857	1377.3
Andrews 1990	Doryopteris	concolor	1	0	0	0	1	1	1	1	0	0	0	223.254692	308.076408	126.864611	742.132708	104.52815	1447.3311
K000633039	Doryopteris	lomariacea	1	0	0	0	0	1	1	1	0	0	0	193.434783	278.086957	97.7391304	748.130435	163.869565	1751.86957
Andrews 1990	Doryopteris	ludens	1	0	0	0	0	0	1	1	0	0	0	256.277778	320.083333	196.222222	796.055556	184.333333	1854.63889
U0015951	Doryopteris	nobilis	1	0	0	0	0	1	1	1	0	0	0	203.033898	313.381356	87.8813559	515.745763	289.686441	1631.12712
U0015958	Doryopteris	ornithopus	1	0	0	0	0	0	1	1	0	0	0	213.861111	299.194444	120.888889	834.861111	49.4166667	1671.36111
E00414305	Doryopteris	paradoxa	1	0	0	0	1	1	1	1	0	0	0	169	262.6	41.2	1146.6	140	2359
Lellinger 1989	Doryopteris	pedata	1	0	0	0	1	1	1	1	0	0	0	217.133333	304.903704	127.755556	558.948148	213.618519	1581.62222
U0015978	Doryopteris	rediviva	1	0	0	0	0	0	1	1	0	0	0	195.2	280.1	101.4	974	145.4	2088.8
U0067967	Doryopteris	sagittifolia	1	0	0	0	1	1	1	1	0	0	0	228.983051	301.440678	156.491525	875.423729	164.033898	1896.91525
U0015856	Doryopteris	triphylia	1	0	0	0	1	1	1	1	0	0	0	216.25	333	100.5	484.6875	322.8125	1655.625
K000959600	Drymotaenium	miyoshianum	0	1	1	0	1	0	0	1	1	1	1	120.652632	222.789474	-5.43157895	771.147368	101.431579	1626.83158
eFlora of China	Drynaria	bonii	0	1	0	0	0	0	0	1	1	1	1	230.866667	329.15	115	747.7	60.8833333	1460.28333
B200060596	Drynaria	fortunei	0	1	0	0	0	0	0	1	1	1	1	195.08	286.34	95.02	1106.26	199.1	2409.72
BR8053473	Drynaria	laurentii	0	1	0	0	0	0	0	1	1	1	1	246.35514	316.747664	180.64486	836.299065	116.205607	1960.37383
eFlora of China	Drynaria	mollis	0	1	0	0	0	0	0	1	1	1	1	60.9130435	194.73913	-111.26087	538.73913	16	809.130435

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eFlora of China	Drynaria	quercifolia	0	1	0	0	0	0	0	1	1	1	1	262.90642	334.898803	178.517954	931.734494	99.8084875	1715.3025
eFlora of China	Drynaria	rigidula	0	1	0	0	0	0	0	1	1	1	1	219.761682	294.543614	136.309969	819.962617	257.261682	2008.15888
MO325289	Drynaria	sinica	0	1	0	0	0	0	0	1	1	1	1	74.7363636	207.463636	-88.0818182	390.054545	19.8	698.509091
EIG12089	Drynaria	sparsisora	0	1	0	0	0	0	0	1	1	1	1	244.747049	305.271501	181.489039	967.224283	351.559865	2461.24789
K000435913	Drynaria	volkensis	0	1	0	0	0	0	0	1	1	1	1	182.125	268.239583	96.3020833	705.96875	90.28125	1520.23958
EIG12107	Drynaria	willdenowii	0	1	0	0	0	0	0	1	1	1	1	222.032258	295.387097	138.032258	893.645161	110.225806	1640.90323
K001044568	Dryopsis	apiciflora	1	0	0	0	1	1	1	1	0	0	1	134.425439	210.030702	36.4780702	1391.05702	182.04386	2886.64912
K001080845	Dryopsis	clarkei	1	0	0	0	1	1	1	1	0	0	1	112.208333	224.875	-23.2083333	805.708333	79.5416667	1582.625
eFlora of China	Dryopsis	maximowicziana	1	0	0	1	1	1	1	1	0	0	1	142.491686	292.660333	-5.66983373	742.482185	216.570071	1972.74584
K000351171	Dryopteris	aemula	1	0	0	1	1	1	1	1	0	0	1	92.9049049	187.826827	17.0830831	384.04004	216.70971	1192.8989
K000351175	Dryopteris	affinis	1	0	0	0	1	1	1	1	0	0	1	68.4114114	168.610611	-15.9239239	636.473473	282.378378	1792.64665
eFlora of China	Dryopteris	amurensis	1	0	0	1	1	1	1	1	0	0	1	35.9615385	219.961538	-151.807692	643.884615	211.615385	1608.34615
eFlora of China	Dryopteris	atrata	1	0	0	0	1	1	1	1	0	0	1	141.945887	261.320346	14.9242424	935.285714	221.768398	2291.62771
K000442227	Dryopteris	bissetiana	1	0	0	1	1	1	1	1	0	0	1	137.633634	295.28979	-18.8018018	627.048048	194.183183	1704.87538
H1686001	Dryopteris	campyloptera	1	0	0	1	1	1	1	1	0	0	1	20.5504587	206.449541	-173.53211	319.270642	205.504587	1059.34404
K001080820	Dryopteris	championii	1	0	0	0	1	1	1	1	0	0	1	158.335958	308.370079	9.92388451	680.790026	192.102362	1760.30184
K001080815	Dryopteris	chinensis	1	0	0	1	1	1	1	1	0	0	1	133.191011	293.022472	-26.7865169	639.410112	185.601124	1682.61236
eFlora of China	Dryopteris	chrysocoma	1	0	0	0	1	1	1	1	0	0	1	142.791667	244.583333	7.80555556	823.986111	64.7777778	1472.79167
K001080857	Dryopteris	cochleata	1	0	0	0	0	1	1	1	0	0	1	213.59322	311.59322	97.3559322	822.288136	50.5932203	1508.38983
eFlora of China	Dryopteris	commixta	1	0	0	0	1	1	1	1	0	0	1	153.684211	293.105263	-4.36842105	1090.31579	191.736842	2280
H1655125	Dryopteris	corleyi	1	0	0	0	1	1	1	1	0	0	1	130.47	255.53	30.92	263.03	126.5	763.59
H1587221	Dryopteris	crassirhizoma	1	0	0	0	1	1	1	1	0	0	1	100.306373	270.257353	-62.1862745	598.571078	233.404412	1653.94608
K001080943	Dryopteris	cristata	1	0	0	0	1	1	1	1	0	0	1	81.1731732	209.151151	-27.5715716	254.198198	151.284284	820.098098
H1124195	Dryopteris	cycadina	1	0	0	0	1	1	1	1	0	0	1	142.158798	281.364807	2.08154506	824.201717	210.798283	2116.69528
K001080810	Dryopteris	decipiens	1	0	0	0	1	1	1	1	0	0	1	165.421769	306.435374	23.122449	870.945578	246.578231	2294.18367
K001080806	Dryopteris	dickinsii	1	0	0	0	1	1	1	1	0	0	1	131.531353	284.650165	-18.5610561	713.719472	215.910891	1877.10891
K001080804	Dryopteris	erythrosora	1	0	0	0	1	1	1	1	0	0	1	149.212212	300.452452	-1.25125125	646.551552	193.224224	1778.998
K001080839	Dryopteris	expansa	1	0	0	1	1	1	1	1	0	0	1	45.2592593	172.168168	-63.6616617	476.702703	208.95996	1344.43944
eFlora of China	Dryopteris	formosana	1	0	0	1	1	1	1	1	0	0	1	162.051701	237.990476	71.8122449	1340.84354	263.791837	2937.03129
eFlora of China	Dryopteris	fragrans	1	0	0	0	1	1	1	1	0	0	1	-48.1403162	183.940711	-272.794466	187.209486	76.6561265	489.879447
K001080928	Dryopteris	fuscipes	1	0	0	0	1	1	1	1	0	0	1	157.987097	305.103226	11.3956989	733.537634	200.782796	1912.5957
K001080951	Dryopteris	glabra	1	0	0	1	1	1	1	1	0	0	1	180.173913	245.652174	116.521739	688.913043	315.086957	2016.43478

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H1154790	Dryopteris	goldiana	1	0	0	0	1	1	1	1	0	0	1	77.2434211	273.427632	-121.144737	317.947368	208.289474	1059.29605
K001080927	Dryopteris	gymnophylla	1	0	0	1	1	1	1	1	0	0	1	141.806452	303.806452	-26.6236559	566.956989	151.129032	1476.36559
H1281129	Dryopteris	gymnosora	1	0	0	0	1	1	1	1	0	0	1	154.620253	296.607595	8.43037975	923.556962	238.278481	2424.5443
eFlora of China	Dryopteris	hondoensis	1	0	0	0	1	1	1	1	0	0	1	145.554348	300.230435	-6.97173913	647.878261	203.045652	1805.11522
K000675776	Dryopteris	inaequalis	1	0	0	1	1	1	1	1	0	0	1	166.560669	255.389121	63.8117155	551.447699	88.6820084	1198.12134
eFlora of China	Dryopteris	indusiata	1	0	0	0	1	1	1	1	0	0	1	152.811765	295.729412	11.2705882	1036.48235	273.2	2638.07059
H1752429	Dryopteris	intermedia	1	0	0	1	1	1	1	1	0	0	1	63.5571205	259.150235	-136.547731	316.56651	216.779343	1073.98905
eFlora of China	Dryopteris	juxtaposita	1	0	0	0	1	1	1	1	0	0	1	200.4	337	50.2125	780.0875	37.8375	1108.9625
eFlora of China	Dryopteris	kinkiensis	1	0	0	0	1	1	1	1	0	0	1	153.832215	309.959732	2.12751678	692.919463	206.214765	1896.5906
E00414439	Dryopteris	labordei	1	0	0	0	1	1	1	1	0	0	1	175.421603	266.759582	74.7247387	1218.19164	314.055749	2813.77352
K001080925	Dryopteris	lacera	1	0	0	0	1	1	1	1	0	0	1	139.951747	295.890183	-14.1613977	644.883527	202.336106	1767.88519
K001080889	Dryopteris	lepidopoda	1	0	0	0	1	1	1	1	0	0	1	130.2	210.196923	28.1723077	1351.56923	171.747692	2765.18154
H1125192	Dryopteris	marginalis	1	0	0	0	1	1	1	1	0	0	1	81.3348066	274.341436	-114.592265	314.527072	212.645304	1066.12044
K001040030	Dryopteris	maximowiczii	1	0	0	1	1	1	1	1	0	0	1	83.7088608	250.620253	-87.8227848	733.949367	188.227848	1853.27848
eFlora of China	Dryopteris	medioxima	1	0	0	0	1	1	1	1	0	0	1	150	302.651163	-8.37209302	707.44186	198.139535	1905.55814
eFlora of China	Dryopteris	melanocarpa	1	0	0	1	1	1	1	1	0	0	1	154.137255	246.490196	48.6078431	1255.84314	245.196078	2946.58824
eFlora of China	Dryopteris	monticola	1	0	0	0	1	1	1	1	0	0	1	92.87	265.16	-69.41	641.19	262.65	1774.345
H.EIG109	Dryopteris	namegatae	1	0	0	0	1	1	1	1	0	0	1	138.545455	272.772727	0.09090909	874.727273	220.227273	2141.31818
H. EIG179	Dryopteris	oreades	1	0	0	0	1	1	1	1	0	0	1	80.7877878	202.794795	-15.0520521	370.115115	199.970971	1128.81982
eFlora of China	Dryopteris	pacifica	1	0	0	1	1	1	1	1	0	0	1	148.427171	301.2507	-2.35714286	645.87535	202.722689	1787.36275
K001080824	Dryopteris	pallida	1	0	0	0	1	1	1	1	0	0	1	142.941176	282.058824	32.9411765	275.882353	78.5294118	718.058824
K000954657	Dryopteris	patula	1	0	0	1	1	1	1	1	0	0	1	193.550336	269.395973	118.067114	904.805369	118.583893	2045.75168
eFlora of China	Dryopteris	polita	1	0	0	0	1	1	0	1	0	0	1	181.913907	260.705298	92.4701987	1345.4702	283.039735	2933.72185
BR5837946	Dryopteris	remota	1	0	0	0	1	1	1	1	0	0	1	74.1460674	214.41573	-48.241573	351.674157	195.230337	1039.2809
eFlora of China	Dryopteris	sacrosancta	1	0	0	1	1	1	1	1	0	0	1	143.780255	297.089172	-9.39490446	703.984076	206.847134	1924.92994
K001080945	Dryopteris	sandwicensis	1	0	0	1	1	1	1	1	0	0	1	205	273.083333	139.75	618.5	258.916667	1757
eFlora of China	Dryopteris	saxifraga	1	0	0	1	1	1	1	1	0	0	1	100.586735	268.229592	-63.9744898	653.163265	227.566327	1769.85204
eFlora of China	Dryopteris	scottii	1	0	0	0	1	1	0	1	0	0	1	166.189266	247.819209	69.0649718	1253.05932	176.217514	2584.31356
H.EIG657	Dryopteris	sieboldii	1	0	0	0	1	1	1	1	0	0	1	168.456522	308.858696	21.5652174	831.119565	205.195652	1996.71739
eFlora of China	Dryopteris	simasakii	1	0	0	0	1	1	1	1	0	0	1	155.307692	319.153846	-1.11538462	781.692308	223.384615	1975
eFlora of China	Dryopteris	sinofibrillosa	1	0	0	0	1	1	1	1	0	0	1	97.3333333	215.035088	-54.4912281	493.561404	22.3157895	860.666667
H.EIG617	Dryopteris	sordidipes	1	0	0	0	1	1	1	1	0	0	1	195.067251	275.497076	104.809942	1324.86257	280.307018	2855.08772
K001080908	Dryopteris	sparsa	1	0	0	0	1	1	1	1	0	0	1	174.160248	271.55528	69.1354037	1120.44845	264.490683	2572.94286

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K000351167	Dryopteris	squamiseta	1	0	0	1	1	1	1	1	0	0	1	145.247788	218.690265	54.460177	1293.27434	200.584071	2794.33628
K001080906	Dryopteris	stenolepis	1	0	0	0	1	1	1	1	0	0	1	144.115789	233.705263	27.6736842	873.347368	163.631579	1923.44211
H.EIG.747	Dryopteris	subbipinnata	1	0	0	0	1	1	1	1	0	0	1	157.1	226.4	86.4	727.3	245.3	1954.1
eFlora of China	Dryopteris	sublacera	1	0	0	0	1	1	1	1	0	0	1	131.849057	236.443396	-9.11320755	568.981132	35.745283	1001.62264
H.EIG.917	Dryopteris	submontana	1	0	0	0	1	1	1	1	0	0	1	83.6006006	205.232232	-12.2202202	343.178178	197.837838	1068.15716
K001080904	Dryopteris	tokyoensis	1	0	0	0	1	1	1	1	0	0	1	114.761194	286.059701	-44.0597015	615.791045	253.61194	1686.71642
K001080944	Dryopteris	unidentata	1	0	0	1	1	1	1	1	0	0	1	188.947368	254.894737	126	711.315789	335.947368	2101.26316
eFlora of China	Dryopteris	uniformis	1	0	0	0	1	1	1	1	0	0	1	141.82302	298.037129	-12.8217822	645.178218	199.638614	1756.21163
K001080903	Dryopteris	varia	1	0	0	1	1	1	1	1	0	0	1	180.867508	279.211356	74.4763407	1098.02524	239.782334	2503.74921
K001080879	Dryopteris	wallichiana	1	0	0	0	1	1	1	1	0	0	1	135.377267	215.070133	40.6227328	903.454655	130.067715	1953.06167
Mickel & Atehortua 1980	Elaphoglossum	acrostichoides	0	1	1	0	0	1	0	0	1	1	1	161.594872	251.558974	56.0820513	572.220513	82.1282051	1192.0359
EIG6950	Elaphoglossum	aemulum	0	1	1	0	0	1	0	0	1	1	1	241.142857	312.285714	172.142857	541	218.857143	1507.14286
BR6964917	Elaphoglossum	affine	0	1	1	0	0	1	0	0	1	1	1	122	191	46.7368421	652.175439	113.192982	1545.57895
Mickel & Atehortua 1980	Elaphoglossum	amygdalifolium	0	1	1	0	0	1	0	0	1	1	1	227.6	292.066667	169.888889	1296.47778	324.755556	3444.86667
BR6964856	Elaphoglossum	andicola	0	1	1	0	0	1	0	0	1	1	1	158.603175	233.619048	72.3650794	552.174603	132.746032	1330.77778
Mickel & Atehortua 1980	Elaphoglossum	apodum	0	1	1	0	0	1	0	0	1	1	1	240.887324	304.971831	175.408451	803.788732	322.943662	2282.83099
Crouch et al. 2011	Elaphoglossum	aubertii	0	1	1	0	0	1	0	0	1	1	1	170.4	250.11	79.67	667.68	83.61	1354.64
K000590642	Elaphoglossum	auricomum	0	1	1	0	0	1	0	0	1	1	1	231.368421	301.473684	161.105263	972.947368	306.315789	2473.26316
Mickel & Atehortua 1980	Elaphoglossum	auripilum	0	1	1	0	0	1	0	0	1	1	1	182.851852	244.37963	124.666667	1231.0463	252.990741	3160.93519
Mickel & Atehortua 1980	Elaphoglossum	burchellii	0	1	1	0	0	1	0	0	1	1	1	179.940299	256.731343	94.5	714.477612	150.798507	1693.09701
Mickel & Atehortua 1980	Elaphoglossum	callifolium	0	1	1	0	0	1	0	0	1	1	1	206.23622	274.110236	129.724409	1218.04724	234.362205	2532.38583
Mickel & Atehortua 1980	Elaphoglossum	cardenasii	0	1	0	0	0	1	0	0	1	1	1	182.75	289	56.5	712.875	106.875	1506.75
Mickel & Atehortua 1980	Elaphoglossum	cardiophyllum	0	1	1	0	0	1	0	0	1	1	1	107.472222	169.972222	48.4444444	509.861111	233.75	1469.72222
Mickel & Atehortua 1980	Elaphoglossum	ciliatum	0	1	1	0	0	1	0	0	1	1	1	201.401515	266.469697	140.344697	1068.95455	256.272727	2771.05303
Mickel & Atehortua 1980	Elaphoglossum	costaricense	0	1	1	0	0	1	0	0	1	1	1	188.028169	250.760563	129.422535	1299.08451	319.422535	3427.4507
Mickel & Atehortua 1980	Elaphoglossum	crassifolium	0	1	1	0	0	1	0	0	1	1	1	216.192308	280.807692	154.076923	829.115385	448.307692	2519.46154
Tryon & Tryon 1982	Elaphoglossum	crinitum	0	1	1	0	0	0	0	0	1	1	1	224.857143	289.172932	164.045113	1041.67669	225.819549	2628.26316
B1951601 0	Elaphoglossum	cuspidatum	0	1	1	0	0	1	0	0	1	1	1	150.896396	218.873874	77.1936937	574.243243	176.522523	1495.65315
Mickel & Atehortua 1980	Elaphoglossum	decoratum	0	1	1	0	0	0	0	0	1	1	1	199.914894	264.241135	138.503546	1131.26241	311.829787	3021.37589
Mickel & Atehortua 1980	Elaphoglossum	deltoidium	0	1	1	0	0	1	0	0	1	1	1	125	181.944444	70.2777778	697.5	285.055556	1909.33333
Mickel & Atehortua 1980	Elaphoglossum	erinaceum	0	1	1	0	0	1	0	0	1	1	1	179.917738	251.316195	107.642674	945.226221	217.627249	2353.51157
Mickel & Atehortua 1980	Elaphoglossum	eximium	0	1	1	0	0	1	0	0	1	1	1	171.373134	232.820896	111.104478	1044.27861	231.61194	2696.14925

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Mickel & Atehortua 1980	Elaphoglossum	glabellum	0	1	1	0	0	1	0	0	1	1	1	212.816265	276.990964	153.006024	1007.90663	233.403614	2546.34639
Mickel & Atehortua 1980	Elaphoglossum	glaucum	0	1	1	0	0	1	0	0	1	1	1	185.08	276.92	87.48	795.76	75.16	1589.28
Mickel & Atehortua 1980	Elaphoglossum	guatemalense	0	1	1	0	0	1	0	0	1	1	1	209.234375	292.65625	123.140625	955.765625	145.890625	2076.26563
Mickel & Atehortua 1980	Elaphoglossum	herminieri	0	1	1	0	0	1	0	0	1	1	1	243.026178	306.078534	186.329843	1071.7801	292.219895	2825.06283
Mickel & Atehortua 1980	Elaphoglossum	huacsaro	0	1	1	0	0	1	0	0	1	1	1	148.450216	211.354978	81.9004329	653.883117	185.922078	1718.00433
Crouch et al. 2011	Elaphoglossum	hybridum	0	1	1	0	0	1	0	0	1	1	1	170.55303	250.05303	85.4545455	697.121212	109.530303	1440.04545
Mickel & Atehortua 1980	Elaphoglossum	latifolium	0	1	1	0	0	1	0	0	1	1	1	190.25	261.354167	118.041667	828.078125	169.34375	1985.59375
B200071030	Elaphoglossum	lechlerianum	0	1	1	0	0	1	0	0	1	1	1	186.734375	265.21875	101.515625	643.234375	209.796875	1665.8125
Mickel & Atehortua 1980	Elaphoglossum	lindenii	0	1	1	0	0	1	0	0	1	1	1	127.888889	195.740741	59.3703704	663.351852	142.759259	1569.42593
Mickel & Atehortua 1980	Elaphoglossum	lingua	0	1	1	0	0	1	0	0	1	1	1	178.339416	242.459854	112.821168	942.474453	207.434307	2385.95255
Mickel & Beitel 1988	Elaphoglossum	lonchophyllum	0	1	1	0	0	1	0	0	1	1	1	202.052632	277.736842	125.315789	1017.31579	134	2304.47368
K000857896	Elaphoglossum	luridum	0	1	1	0	0	1	0	0	1	1	1	244.143713	307.874251	187.293413	1010.45509	266.946108	2599.47305
K000590652	Elaphoglossum	metallicum	0	1	1	0	0	1	0	0	1	1	1	209.733333	285.866667	138.533333	860.333333	386.8	2495.93333
BR6972295	Elaphoglossum	minutum	0	1	1	0	0	1	0	0	1	1	1	117.773756	184.285068	44.6923077	756.162896	136.303167	1797.00905
Mickel & Atehortua 1980	Elaphoglossum	moorei	0	1	1	0	0	1	0	0	1	1	1	187.972222	272.916667	86.7777778	675.611111	138.861111	1550.88889
Mickel & Atehortua 1980	Elaphoglossum	orbignyanum	0	1	1	0	0	1	0	0	1	1	1	199.5	273.619048	119.404762	683.238095	232.857143	1751.64286
Mickel & Atehortua 1980	Elaphoglossum	ovatum	0	1	1	0	0	1	0	0	1	1	1	56.3773585	112.415094	8	375.056604	218.566038	1189.18868
Mickel & Beitel 1988	Elaphoglossum	paleaceum	0	1	1	0	0	1	0	0	1	1	1	151.690476	218.047619	83.2904762	872.604762	165.233333	2119.45238
K000200436	Elaphoglossum	peltatum	0	1	0	0	0	1	0	0	1	1	1	202.832442	267.814617	140.160428	1011.13012	234.062389	2571.1836
BR13074746	Elaphoglossum	sartorii	0	1	1	0	0	1	0	0	1	1	1	179.267857	256.714286	99.6696429	1005.05357	112.642857	2159.20536
Mickel & Atehortua 1980	Elaphoglossum	siliquoides	0	1	1	0	0	1	0	0	1	1	1	222.818182	286.659091	165.386364	1234.86364	296.681818	3258.52273
Mickel & Beitel 1988	Elaphoglossum	squamipes	0	1	1	0	0	1	0	0	1	1	1	126.913793	188.557471	63.5	900.005747	150.229885	2149.06897
Mickel & Atehortua 1980	Elaphoglossum	tectum	0	1	1	0	0	1	0	0	1	1	1	174.52381	243.777778	104.269841	719.333333	146.571429	1753.1746
Mickel & Atehortua 1980	Elaphoglossum	tripartitum	0	1	1	0	0	1	0	0	1	1	1	190.8	271.8	107	1030.8	216.2	2309
Mickel & Atehortua 1980	Elaphoglossum	vestitum	0	1	1	0	0	1	0	0	1	1	1	180.8125	265.125	95.84375	905.34375	138.75	1974.84375
Knapp 2011	Elaphoglossum	yoshinagae	0	1	1	0	0	1	0	0	1	1	1	171.842105	253.385965	77.6666667	1406.29825	316.192982	3109.2807
K000590723	Enterosora	parietina	0	1	1	0	1	0	0	1	1	1	0	200.791667	266	136.458333	1046.58333	317.25	2846.45833
Lellinger 1989	Enterosora	percrassa	0	1	1	0	1	0	0	1	1	1	0	166.405405	225.702703	107.810811	1182.24324	209.432432	2959.37838
Lellinger 1989	Enterosora	trifurcata	0	1	0	0	1	0	0	1	1	1	0	208.904494	272.224719	149.567416	1083.30899	352.674157	2973.42697
Tryon & Tryon 1982	Eriosorus	cheilanthoides	1	0	0	0	1	1	0	1	1	0	0	129.132743	202.415929	48.3362832	463.849558	106.982301	1075.65487
Lellinger 1989	Eriosorus	congestus	1	0	0	0	1	1	0	1	1	0	0	151.390805	206.896552	95.8390805	1099.04598	199.885057	2784.43678
Lellinger 1989	Eriosorus	flexuosus	1	0	0	1	1	1	0	1	1	0	0	147.440497	209.765542	83.6447602	716.079929	199.802842	1860.52753

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B200072832	Eriosorus	hirsutulus	1	0	0	0	1	1	0	1	1	0	0	99.862069	158.413793	40.4482759	614.275862	199.965517	1665.62069
Tryon & Tryon 1982	Eriosorus	hirtus	1	0	0	1	1	1	0	1	1	0	0	160.193548	225.306452	95.2741935	592.967742	160.709677	1510.19355
Tryon & Tryon 1982	Eriosorus	hispidulus	1	0	0	0	1	1	0	1	1	0	0	199.318182	264.318182	138.818182	1029.54545	304.227273	2655.5
Tryon & Tryon 1982	Eriosorus	longipetiolatus	1	0	0	0	1	1	0	1	1	0	0	144.151515	211.878788	81.2727273	823.545455	394.333333	2381.87879
Tryon & Tryon 1982	Eriosorus	myriophyllus	1	0	0	1	1	1	0	1	1	0	0	189.269231	276.038462	88.8461538	760.884615	133.769231	1661.30769
Lellinger 1989	Eriosorus	novogranatensis	0	0	0	1	1	1	0	1	1	0	0	163.818182	234	92	616.727273	167.363636	1616.90909
K000633165	Eriosorus	rufescens	1	0	0	0	1	1	0	1	1	0	0	136.139785	201.387097	71.6236559	542.473118	227.462366	1489.49462
Lindsay & Middleton 2016	Glaphyopteridopsis	erubescens	1	0	0	0	1	1	0	1	0	0	1	166.166667	248.590909	64.2121212	1228.84091	148.212121	2376.43939
Lellinger 1989	Gleichenella	pectinata	1	0	0	0	1	1	0	1	1	0	0	224.085	288.395	161.94	972.13	337.21	2622.83
Perrie & Brownsey 2015	Gleichenia	alpina	1	0	0	0	1	1	0	1	1	0	0	70.6892655	169.983051	-1.81920904	453.824859	260.915254	1463.70621
Perrie & Brownsey 2015	Gleichenia	dicarpa	1	0	0	0	1	1	0	1	1	0	0	154.815816	255.670671	45.2372372	489.816817	212.435435	1373.67868
Perrie & Brownsey 2015	Gleichenia	microphylla	1	0	0	0	1	1	0	1	1	0	0	145.336336	244.41041	44.4704705	483.14014	218.29029	1397.52653
Lindsay & Middleton 2016	Goniophlebium	percussum	0	1	0	0	1	0	0	1	1	1	1	242.09375	308.302083	166.479167	1429.01042	302.59375	3051.09375
K001044371	Grammitis	billardierei	0	1	1	0	1	0	0	1	1	1	0	123.32032	226.334334	24.4884885	551.542543	290.35035	1687.35636
K000061118	Grammitis	bryophila	0	1	1	0	1	0	0	1	1	1	0	178.705882	240.058824	120.088235	1106.35294	308.676471	2943.19118
K001044377	Grammitis	ciliata	0	1	1	0	1	0	0	1	1	1	0	122.575	225.8	24.525	902.125	630.475	3112.7
K000538355	Grammitis	congener	0	1	1	0	1	0	0	1	1	1	0	209.385965	264.087719	151.859649	1117.31579	354.421053	2822.49123
K001044390	Grammitis	deplanchei	0	1	1	0	1	0	1	0	1	1	0	223.777778	297.666667	147.555556	897.444444	281.888889	2103.22222
K000647890	Grammitis	dolichosora	0	1	1	0	1	0	0	1	1	1	0	176.54	235.41	121.19	841.47	455.69	2646.83
Lindsay & Middleton 2016	Grammitis	dorsipila	0	1	1	0	1	1	0	1	1	1	0	208.913043	315.26087	86.826087	1168.65217	164.521739	2305.26087
K000548235	Grammitis	havilandii	0	1	1	0	1	0	0	1	1	1	0	142.071429	198.214286	94.2857143	679.5	399.857143	2257.92857
K000501066	Grammitis	holttumii	0	1	1	0	1	0	0	1	1	1	0	187.466667	241.4	138.666667	856.866667	458.533333	2672
K000549783	Grammitis	jagoriana	0	1	1	0	1	0	0	1	1	1	0	221.433333	281.633333	160.6	1479.4	203.433333	3066.43333
K000570981	Grammitis	knutsfordiana	0	1	1	0	1	0	0	1	1	1	0	177.555556	236.654321	123.851852	903.197531	511.691358	2848.37037
K000435893	Grammitis	kyimbilensis	0	1	1	0	1	0	0	1	1	1	0	213.029412	293.323529	123.529412	869.676471	75.0882353	1540.26471
K000549034	Grammitis	lasiosora	0	1	1	0	1	0	0	1	1	1	0	201.733333	258.466667	146.933333	1000.86667	409.533333	2715.93333
K000558617	Grammitis	padangensis	0	1	1	0	1	0	0	1	1	1	0	140.520833	205.645833	80.1666667	951.104167	470.125	2901.4375
K001044372	Grammitis	poepigiana	0	1	1	0	1	0	0	1	1	1	0	68.6581633	171.219388	-10.5306122	486.918367	274.295918	1541.26531
K000571695	Grammitis	reinwardtii	0	1	1	0	1	0	0	1	1	1	0	189.558824	250.294118	125.080882	1335.82353	332.448529	3080.81618
Lindsay & Middleton 2016	Grammitis	reinwardtioides	0	0	1	0	1	1	0	1	1	1	0	215.125	262.6875	172.0625	759.1875	503.125	2569.375
WIN71420	Gymnocarpium	jessoense	1	0	0	0	1	1	0	1	0	0	1	21.4902913	218.800971	-193.019417	339.728155	68.3349515	738.461165
K001089102	Gymnocarpium	oyamense	1	0	0	0	1	1	0	1	0	0	1	127.278481	272	-27.4683544	682.772152	166.35443	1725.01266
Lindsay & Middleton 2016	Gymnogrammitis	dareiformis	0	1	0	1	1	1	0	1	1	1	0	148.433962	248.377358	14.490566	883.188679	57.8113208	1547.49057

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E20091949	Haplopteris	elongata	0	1	0	0	1	1	0	1	1	1	0	227.304348	290.217391	160.695652	1059.41667	494.375	3059.5
Lellinger 1989	Hecistopteris	pumila	0	1	0	0	1	1	0	1	1	1	0	251.741667	314.716667	195.15	1079.59167	350.941667	2894.45
Lindsay & Middleton 2016 EIG5355	Helminthostachys	zeylanica	1	0	0	0	0	1	0	0	1	1	0	260.042276	326.013008	186.465041	954.876423	240.829268	2135.97561
	Hemidictyum	marginatum	1	0	0	0	1	1	1	1	0	0	1	225.549342	290.730263	162.825658	1006.92105	276.572368	2610.07566
BR6966164	Hemionitis	elegans	1	0	0	0	1	0	0	0	0	0	0	227.076923	355.153846	96	724.538462	22.3076923	1068.69231
B200073237	Hemionitis	levyi	1	0	1	0	1	0	0	0	0	0	0	281.5	367.75	195.875	1043.625	51.875	2031.875
OTS-LSHERB-002077	Hemionitis	palmata	1	0	0	0	1	0	0	0	0	0	0	234.57971	308.135266	163.376812	905.995169	172.52657	2103.83575
OTS-LCHERB-003106	Hemionitis	rufa	1	0	0	0	1	1	0	0	0	0	0	257	327.728814	190.983051	805.525424	125.610169	1779.13559
H1685340	Hemionitis	tomentosa	1	0	0	0	1	1	0	0	0	0	0	213.839286	312.258929	110.125	532.160714	186.732143	1417.32143
MICH1191022	Heterogonium	pinnatum	1	0	0	0	0	1	0	1	0	0	1	261.636364	317.345455	209.509091	1005.25455	460.381818	2892.41818
K000519450	Histiopteris	incisa	1	0	0	0	1	0	1	1	0	0	1	151.264264	248.717718	51.0550551	498.239239	205.205205	1378.79279
US00899497	Humata	heterophylla	0	1	0	0	1	1	1	1	1	1	1	268.428571	321.142857	220.571429	1120.71429	621.428571	3473.21429
TAIF051469	Humata	trifoliata	0	1	0	1	1	1	1	1	1	1	1	200.915493	281.225352	111.647887	1395.53521	336.84507	3063.39437
eFlora of China	Hymenasplenium	hondoense	1	0	0	0	1	1	1	1	0	0	1	147.948718	291.282051	0.94871795	885.538462	229.769231	2270.51282
Lellinger 1989	Hymenophyllum	apiculatum	0	1	0	0	1	1	1	1	1	1	0	210.695652	278.434783	140.804348	934.978261	226.913043	2279.56522
K001090333	Hymenophyllum	armstrongii	0	1	0	0	1	1	1	1	1	1	0	110.232394	216.406103	9.80516432	1186.80516	888.57277	4229.81455
Andrews 1990	Hymenophyllum	australe	0	1	0	1	1	1	1	1	1	1	0	130.774379	232.183556	40.2409178	499.07457	219.489484	1434.89293
eFlora of China	Hymenophyllum	badium	0	1	0	1	1	1	1	1	1	1	0	161.01462	271.748538	47.2923977	973.520468	276.421053	2503.71637
Andrews 1990	Hymenophyllum	baileyianum	0	1	0	1	1	1	1	1	1	1	0	209.381503	290.809249	116.225434	1131.50867	133.468208	2030.2948
eFlora of China	Hymenophyllum	barbatum	0	1	0	1	1	1	1	1	1	1	0	153.31746	286.059524	17.2480159	880.871032	243.402778	2203.88492
H1689897	Hymenophyllum	caudiculatum	0	1	0	0	1	1	1	1	1	1	0	126.954023	220.310345	45.0344828	802.528736	228.298851	1896.16092
K000589673	Hymenophyllum	cruentum	0	1	0	0	1	1	1	1	1	1	0	101.111111	197.111111	28.6666667	952.111111	370.222222	2463.22222
K000589673	Hymenophyllum	cuneatum	0	1	0	0	1	1	1	1	1	1	0	126.5	214.382353	51.2647059	645.147059	209.529412	1554.85294
K001090325	Hymenophyllum	demissum	0	1	0	1	1	1	1	1	1	1	0	103.093093	208.87988	5.02302302	1065.13614	790.295295	3755.10911
K000559062	Hymenophyllum	deplanchei	0	1	0	1	1	1	1	1	1	1	0	203.333333	273.878788	132.030303	740.454545	272.848485	1890.42424
Ebihara et al. 2006	Hymenophyllum	dilatatum	0	1	0	1	1	1	1	1	1	1	0	109.804805	214.88989	12.2932933	1065.7978	785.044044	3756.7988
K001090319	Hymenophyllum	ferrugineum	0	1	0	0	1	1	1	1	1	1	0	108.055055	215.169169	7.86986987	1163.91191	860.111111	4118.63664
Andrews 1990	Hymenophyllum	flabellatum	0	1	0	0	1	1	1	1	1	1	0	112.686687	217.282282	16.5605606	728.496496	480.49049	2436.99399
K001090359	Hymenophyllum	flexuosum	0	1	0	1	1	1	1	1	1	1	0	110.373162	218.194853	8.79044118	1209.37132	903.805147	4304.45221
K000589689	Hymenophyllum	fuciforme	0	1	0	1	1	1	1	1	1	1	0	109.52	221.32	23.92	798.16	221.68	1858.08
Lellinger 1989	Hymenophyllum	fucoides	0	1	0	0	1	1	1	1	1	1	0	168.439024	234.508443	100.84803	846.260788	209.21576	2132.21201
H1121570	Hymenophyllum	fuscum	1	1	0	0	1	1	1	1	1	1	0	190.416667	257.583333	120	1183.25	363.75	3236
Lellinger 1989	Hymenophyllum	hirsutum	0	1	0	0	1	1	1	1	1	1	0	219.595238	288.138528	150.854978	919.484848	234.688312	2313.80952
K000435609	Hymenophyllum	inaequale	0	1	0	1	1	1	1	1	1	1	0	201.684211	270.526316	128.315789	881.473684	182.894737	1864.68421
eFlora of China	Hymenophyllum	javanicum	0	1	0	1	1	1	1	1	1	1	0	192.026144	258.444444	122.607843	1044.81169	294.428571	2526.81818

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K000559498	Hymenophyllum	lanceolatum	0	1	0	1	1	1	1	1	1	1	0	226	294.333333	156.444444	666	296	1928.33333
Andrews 1990	Hymenophyllum	marginatum	0	1	1	0	1	1	1	1	1	1	0	118.12782	215.894737	31.4135338	529.007519	259.548872	1595.10526
eFlora of China	Hymenophyllum	oligosorum	0	1	0	1	1	1	1	1	1	1	0	129.108108	267.297297	-12.2702703	947.405405	243.378378	2339.95946
K000428208	Hymenophyllum	ooides	0	1	0	0	1	1	1	1	1	1	0	131.641975	198.876543	70.3209877	1018.38272	456	2941.96296
H1706658	Hymenophyllum	pectinatum	0	1	0	0	1	1	1	1	1	1	0	83.2112676	192.323944	2.23943662	732.732394	265.394366	1833.16901
eFlora of China	Hymenophyllum	pilosissimum	0	1	0	1	1	1	1	1	1	1	0	206.779412	260.308824	156.308824	880.044118	429.544118	2631.64706
eFlora of China	Hymenophyllum	polyanthos	0	1	0	1	1	1	1	1	1	1	0	191.985986	275.418418	106.788789	844.527528	192.657658	2060.32533
K001090310	Hymenophyllum	pulcherrimum	0	1	0	1	1	1	1	1	1	1	0	95.5906736	203.207254	-0.94300518	963.139896	701.678756	3355.13472
NSW Flora Online	Hymenophyllum	rarum	0	1	0	0	1	1	1	1	1	1	0	103.81982	207.630631	11.4084084	852.6997	601.337337	2943.51652
K001090301	Hymenophyllum	sanguinolentum	0	1	0	0	1	1	1	1	1	1	0	104.305305	208.928929	8.14114114	997.620621	725.333333	3482.004
K001090298	Hymenophyllum	scabrum	0	1	0	1	1	1	1	1	1	1	0	106.801802	214.846847	6.3973974	1166.38739	874.878879	4148.26527
K000589700	Hymenophyllum	secundum	0	1	0	0	1	1	1	1	1	1	0	61.0980392	150.578431	-12.5588235	464.294118	266.676471	1413.62745
Flora of Zimbabwe	Hymenophyllum	sibthorpioides	0	1	0	0	1	1	1	1	1	1	0	208.230769	288.353846	124.215385	726.815385	95.0461538	1374.83077
Andrews 1990	Hymenophyllum	subdimidiatum	0	1	0	1	1	1	1	1	1	1	0	211.413043	289.695652	123.913043	1190.80435	196.565217	2307.19565
eFlora of North America	Hymenophyllum	tunbrigense	0	1	0	1	1	1	1	1	1	1	0	100.489489	205.186186	15.3063063	406.089089	211.468468	1217.17618
K001090296	Hymenophyllum	villosum	0	1	0	1	1	1	1	1	1	1	0	88.6547619	192.592262	-2.5297619	731.752976	497.705357	2481.2381
eFlora of North America	Hymenophyllum	wrightii	0	1	0	1	1	1	1	1	1	1	0	77.2477064	194.192661	-24.6146789	984.944954	278.440367	2461.3945
K001089100	Hypodematium	crenatum	1	0	0	1	1	1	1	1	0	0	1	188.052288	283.980392	74.1960784	819.986928	123.594771	1645.20915
K000640337	Hypolepis	hostilis	1	0	0	1	1	1	1	1	0	0	1	222.5	285.270833	163.270833	1017.15625	384.635417	2816.08333
K000913957	Hypolepis	millefolium	1	0	0	1	1	1	1	1	0	0	1	71.963964	180.455455	-22.8278278	708.867868	532.645646	2515.21421
L3716920	Hypolepis	punctata	1	0	0	1	1	1	1	1	0	0	1	158.030252	284.621849	28.512605	855.986555	232.77479	2128.74454
Andrews 1990	Hypolepis	tenuifolia	1	0	0	1	1	1	1	1	0	0	1	137.826923	230.09478	47.157967	1044.80769	372.259615	2595.14698
Lellinger 1989	Jamesonia	alstonii	1	0	0	0	1	1	0	1	1	0	0	85.2666667	141.952381	28.9809524	833.352381	143.6	2013.62857
Tryon & Tryon 1982	Jamesonia	blepharum	1	0	0	0	1	1	0	1	1	0	0	146.933333	221.933333	66.7333333	441.733333	134.733333	1088.53333
Tryon & Tryon 1982	Jamesonia	bogotensis	1	0	0	0	1	1	0	1	1	0	0	90.2111801	145.596273	32.3416149	439.484472	171.838509	1276.08696
Tryon & Tryon 1982	Jamesonia	brasiliensis	1	0	0	0	1	1	0	1	1	0	0	154.636364	241.545455	40.4545455	823.272727	93.1818182	1676.90909
Tryon & Tryon 1982	Jamesonia	canescens	1	0	0	0	1	1	0	1	1	0	0	115.631579	179.526316	49.1578947	681.368421	190.631579	1714.21053
Tryon & Tryon 1982	Jamesonia	cinnamomea	1	0	0	0	1	1	0	1	1	0	0	90.425	146.025	41.6	485.55	234.475	1450.175
Tryon & Tryon 1982	Jamesonia	goudotii	1	0	0	0	1	1	0	1	1	0	0	85.7652174	144.182609	30.6043478	560.521739	253.108696	1620.37826
Tryon & Tryon 1982	Jamesonia	imbricata	1	0	0	0	1	1	0	1	1	0	0	95.7531381	151.874477	40.1715481	510.732218	210.845188	1490.59833
Tryon & Tryon 1982	Jamesonia	pulchra	1	0	0	0	1	1	0	1	1	0	0	96.0892857	152.946429	42.7142857	483.589286	242.928571	1453.64286
Lellinger 1989	Jamesonia	rotundifolia	1	0	0	0	1	1	0	1	1	0	0	101.932836	158.746269	44.7686567	681.828358	166.119403	1759.29851
Lellinger 1989	Jamesonia	scammanae	1	0	0	0	1	1	0	1	1	0	0	101.673554	159.285124	44.0082645	889.227273	202.681818	2229.68182
Tryon & Tryon 1982	Jamesonia	verticalis	1	0	0	0	1	1	0	1	1	0	0	157.09589	218.356164	99.3287671	708.835616	295.547945	1995.41096
K001080655	Lastreopsis	decomposita	1	0	0	1	1	1	1	1	0	0	1	159.315315	262.345345	44.3293293	457.896897	177.610611	1252.2042



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US00991154	Lastreopsis	effusa	1	0	0	1	1	1	1	1	0	0	1	217.109091	292.834091	140.686364	820.7	214.440909	2111.31364
K001080647	Lastreopsis	glabella	1	0	0	1	1	1	1	1	0	0	1	109.402941	214.770588	13.6058824	933.55	681.767647	3262.93824
US00991403	Lastreopsis	hispida	1	1	0	1	1	1	1	1	0	0	1	111.812813	217.429429	14.6706707	1037.81081	754.015015	3645.31632
K000638007	Lecanopteris	celebica	0	1	0	0	1	0	0	1	1	1	1	253.8	318.2	198.4	871.4	418.2	2622
Lindsay & Middleton 2016	Lecanopteris	crustacea	0	1	0	0	0	0	0	1	1	1	1	266.214286	319.214286	217.285714	949.785714	568.142857	3002.07143
K000638166	Lecanopteris	deparioides	0	1	1	0	1	0	0	1	1	1	1	253.388889	308.444444	203.388889	1077.77778	534.666667	3211.33333
K000638706	Lecanopteris	lomarioides	0	1	0	0	0	0	0	1	1	1	1	265.888889	321.111111	215.666667	823	441.888889	2650.22222
Lindsay & Middleton 2016	Lecanopteris	pumila	0	1	0	0	1	0	0	1	1	1	1	211.276596	262.957447	161.723404	952.957447	470.595745	2813.87234
K000647133	Lecanopteris	sarcopus	0	1	0	0	1	0	0	1	1	1	1	266.058824	320.176471	218.117647	873.941176	399	2650.82353
K000637629	Lecanopteris	sinuosa	0	1	1	0	1	0	0	1	1	1	1	258.849558	310.420354	211.340708	1000.38938	436.230088	2772.5
F1994578	Lellingeria	apiculata	0	1	0	0	1	0	0	1	1	1	0	180.424242	254.30303	100.333333	922.833333	166.363636	2173.90909
OTS-LCHERB-003876	Lellingeria	hirsuta	0	1	0	0	1	0	0	1	1	1	0	219.375	292.666667	152.708333	1283.70833	267.041667	3188.54167
Lellinger 1989	Lellingeria	limula	0	1	0	0	1	0	0	1	1	1	0	189.096	252	129.448	1160.992	216.184	2922.968
B200150755	Lellingeria	major	0	1	0	0	1	0	0	1	1	1	0	142.052632	207.736842	81.4736842	551.052632	214.947368	1476.89474
F2232058	Lellingeria	subsessilis	0	1	0	0	1	0	0	1	1	1	0	199.747475	262.712121	140.646465	1054.0101	273.944444	2775.13131
Lindsay & Middleton 2016	Lemmaphyllum	accedens	0	1	1	0	0	0	0	1	1	1	1	236.228261	289.775362	186.452899	987.474638	495.235507	2958.1413
Lindsay & Middleton 2016	Lemmaphyllum	camosum	0	1	1	0	0	0	0	1	1	1	1	164.839506	258.604938	29.3333333	840.17284	57.4567901	1484.98765
K000959599	Lemmaphyllum	microphyllum	0	1	1	0	0	0	0	0	1	1	1	171.467857	283.975	54.1845238	1002.12024	278.467857	2441.04881
B200144949	Lepidogrammitis	rostrata	0	1	1	0	1	0	0	1	1	1	1	179.534247	266.506849	75.1575342	1275.38356	148.342466	2443.82192
eFlora of China	Lepidomicrosorium	buegerianum	1	0	1	0	0	0	0	1	1	1	1	170.391304	253.326087	73.6614907	1361.72516	249.054348	2863.59317
eFlora of China	Lepisorus	angustus	0	1	1	0	1	0	0	1	1	1	1	111.2875	264.425	-51.1875	654.05	126.1875	1516.3375
EIG11252	Lepisorus	annuifrons	0	1	1	0	1	0	0	1	1	1	1	97.6041667	274.854167	-67.8958333	595.479167	251.270833	1638.625
eFlora of China	Lepisorus	bicolor	1	0	1	0	1	0	0	1	1	1	1	128.574586	246.823204	-18.8508287	571.110497	40.3701657	1030.1768
eFlora of China	Lepisorus	clathratus	0	1	1	0	1	0	0	1	1	1	1	66.519685	204.023622	-93.5511811	598.606299	64.0944882	1137.66929
eFlora of China	Lepisorus	contortus	0	1	1	0	1	0	0	1	1	1	1	124.806061	255.024242	-31.5878788	694.333333	48.1272727	1211.54545
Lindsay & Middleton 2016	Lepisorus	excavatus	0	1	1	0	1	0	0	1	1	1	1	179.711268	265.176056	80.0704225	700.309859	76.5704225	1354.91549
eFlora of China	Lepisorus	kawakamii	0	1	1	0	1	0	0	1	1	1	1	151.813559	228.830508	58.1355932	1204.01695	220.389831	2699.54237
Lindsay & Middleton 2016	Lepisorus	longifolius	0	1	1	0	1	0	0	1	1	1	1	251.466667	301.066667	204.371429	936.647619	496.885714	2856.7619
eFlora of China	Lepisorus	loriformis	0	1	1	0	1	0	0	1	1	1	1	144.955882	249.051471	3.11764706	900.867647	43.1691176	1472.81618
eFlora of China	Lepisorus	macrospaeus	0	1	1	0	1	0	0	1	1	1	1	141.710762	255.887892	-1.91255605	642.556054	47.9394619	1162.8296
eFlora of China	Lepisorus	megasorus	0	1	1	0	1	0	0	1	1	1	1	154.88961	231.616883	61.5649351	1282.25325	199.733766	2755.77273
eFlora of China	Lepisorus	monilisorus	0	1	1	0	1	0	0	1	1	1	1	160.263768	236.602899	69.6724638	1336.0029	278.53913	2950.76812
eFlora of China	Lepisorus	morrisonensis	0	1	1	0	1	0	0	1	1	1	1	107.543624	210.630872	-26.557047	797.342282	73.4630872	1505.74497
EIG11309	Lepisorus	onoei	0	1	1	0	1	0	0	1	1	1	1	132.616393	287.396721	-23.2196721	722.757377	212.744262	1952.80656
eFlora of China	Lepisorus	pseudoussuriens	0	1	1	0	1	0	0	1	1	1	1	136.75	210.35	42.4	1704.35	175.25	3443.35
eFlora of China	Lepisorus	scolopendrius	0	1	1	0	1	0	0	1	1	1	1	158.643836	264.260274	21.5205479	1174.34247	46.9452055	1836.16438

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eFlora of China	Lepisorus	suboligolepidus	0	1	1	0	1	0	0	1	1	1	114.519231	195.365385	8.86538462	1255.96154	202.557692	2809.88462
eFlora of China	Lepisorus	thunbergianus	0	1	1	0	1	0	0	1	1	1	154.478478	281.124124	22.017017	808.11011	200.123123	1971.48148
eFlora of China	Lepisorus	tosaensis	0	1	1	0	1	0	0	1	1	1	174.854839	275.774194	55.8225806	1077.25806	121.177419	2120.45161
eFlora of China	Lepisorus	ussuriensis	1	0	1	0	1	0	0	1	1	1	111.486339	274.021858	-49.1038251	695.409836	217.322404	1833.60656
eFlora of China	Leptogramma	tottoides	1	0	0	0	1	1	0	1	0	0	157.179245	239.632075	60.2641509	1177.95283	265.339623	2687.21698
K001057745	Leptopteris	fraseri	1	0	0	0	1	1	0	1	1	0	144.625641	254.958974	32.3230769	596.271795	201.682051	1483.29744
Large & Braggins 2004	Leptopteris	hymenophylloide	1	0	0	1	1	1	0	1	1	0	108.687688	211.129129	17.9179179	749.821822	516.558559	2552.24424
Large & Braggins 2004	Leptopteris	superba	1	0	0	1	1	1	0	1	1	0	98.7737738	207.229229	0.36336336	1063.82482	786.992993	3740.05806
US01168757	Leptopteris	wilkesiana	1	0	0	0	1	1	0	1	1	0	216.114286	278.942857	155.628571	949.228571	346	2441.82857
K001040011	Leptorumohra	miqueliana	1	0	0	1	1	1	1	0	0	1	117.477477	278.459459	-42.2882883	667.342342	202.441441	1718.72072
K001040010	Leptorumohra	quadripinnata	1	0	0	1	1	1	1	0	0	1	138.019231	215.278846	39.1682692	1258.72596	199.894231	2703.52885
K000061890	Leucostegia	immersa	1	0	0	1	1	1	1	0	0	1	190.23301	264.359223	100.271845	990.84466	253.398058	2277.68932
K000061891	Leucostegia	pallida	1	0	0	1	1	1	1	0	0	1	225.210526	275.894737	180.298246	1011.66667	508.140351	2974.26316
K000442729	Lindsaea	arcuata	1	0	0	0	1	1	1	0	0	0	216.168317	279.529703	154.668317	1087.69802	342.227723	2977.86634
Lindsay & Middleton 2016	Lindsaea	bouillodii	1	0	0	0	1	1	1	0	0	0	224.493671	277.278481	174.822785	958.658228	417.253165	2717.92405
L3565366	Lindsaea	chienii	1	0	0	0	1	1	1	0	0	0	185.809365	282.822742	82.6789298	1238.41137	362.772575	2986.89298
L3565260	Lindsaea	chrysolepis	1	0	0	0	1	1	1	0	0	0	246.333333	295.833333	199.555556	913.444444	527.444444	2731.88889
U0089807	Lindsaea	coarctata	1	0	0	0	1	1	1	0	0	0	268.264706	330.176471	212.852941	1045.14706	423.970588	2989
U0007333	Lindsaea	cubensis	1	0	0	0	1	1	1	0	0	0	267.785714	346.142857	179	627.428571	142.5	1534.14286
K000115083	Lindsaea	cultrata	1	0	0	1	1	0	1	0	0	0	233.411429	300.702857	163.251429	985.571429	329.314286	2437.22286
U0236051	Lindsaea	divaricata	1	0	0	0	1	1	1	0	0	0	250.220779	315.811688	186.987013	966.175325	294.058442	2503.01299
L3565920	Lindsaea	doryphora	1	0	0	0	1	1	1	0	0	0	255.83908	305.793103	209.517241	980.505747	525.609195	2953.10345
U0236060	Lindsaea	dubia	1	0	0	0	1	1	1	0	0	0	254.284314	317.607843	202.813725	1117.90196	309.294118	2898.95098
Lindsay & Middleton 2016	Lindsaea	ensifolia	1	0	0	0	1	0	1	0	0	0	255.843844	341.117117	151.884885	811.25025	58.2272272	1389.4965
U0137509	Lindsaea	guianensis	1	0	0	0	1	1	1	0	0	0	247.217949	310.410256	190.820513	1051.02564	326.788462	2820.62179
US01169183	Lindsaea	harveyi	1	0	0	0	1	0	1	0	0	0	231.964286	288.678571	180.125	1039.42857	430.125	2761.625
U0239224	Lindsaea	hemiglossa	1	0	0	0	1	1	1	0	0	0	239.87037	307.444444	178.074074	777.12963	463.740741	2459.81481
Lindsay & Middleton 2016	Lindsaea	heterophylla	1	0	0	0	1	0	1	0	0	0	230.54	304.06	151.62	1258.68	217.54	2628.72
Lehtonen et al. 2010	Lindsaea	incisa	1	0	0	0	1	1	1	0	0	0	192.765432	282.650206	75.8518519	570.847737	173.683128	1463.46502
K000115086	Lindsaea	integra	1	0	0	0	1	0	1	0	0	0	256.857143	305.071429	211.285714	1005.57143	640.428571	3252.71429
Lindsay & Middleton 2016	Lindsaea	javanensis	1	0	0	0	1	1	1	0	0	0	211.69697	290.030303	130.378788	1170.66667	420.19697	2985.98485
U023902	Lindsaea	kingii	1	0	0	0	1	1	1	0	0	0	256.885714	308.942857	208.314286	904.028571	646.828571	3118.77143
U0236104	Lindsaea	lancea	1	0	0	0	1	1	1	0	0	0	247.115115	310.237237	188.935936	1059.29029	319.521522	2809.04905

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Lehtonen et al. 2010	Lindsaea	linearis	1	0	0	0	1	1	1	1	0	0	0	159.751752	258.995996	48.993994	427.542543	200.347347	1245.47447
K001109395	Lindsaea	lobata	1	0	0	0	1	0	1	1	0	0	0	241.766667	293.033333	192.883333	972.283333	529.733333	2984.5
Lehtonen et al. 2010	Lindsaea	lucida	1	0	0	0	1	1	1	1	0	0	0	243.481982	298.445946	191.675676	1028.05856	428.09009	2804.90541
K000351022	Lindsaea	madagascariens	1	0	0	0	1	1	1	1	0	0	0	200.575	281.45	111.225	824.6	108.6	1502.65
U0238938	Lindsaea	malayensis	1	0	0	0	1	0	1	1	0	0	0	206.636364	261.636364	154.909091	975.636364	480	2860.45455
U0238933	Lindsaea	multisora	1	0	0	0	1	1	1	1	0	0	0	274.727273	327.909091	226.636364	980	505.818182	3038
U0238931	Lindsaea	oblanceolata	1	0	0	0	1	1	1	1	0	0	0	225.4	275.688889	177.622222	900.244444	479.888889	2761.73333
U0238903	Lindsaea	orbiculata	1	0	0	0	1	1	1	1	0	0	0	205.312415	289.93588	115.001364	1197.60846	373.160982	2874.19372
U0239026	Lindsaea	pacifica	1	0	0	0	1	0	1	1	0	0	0	246.043478	295.586957	201.282609	1103.71739	569.282609	3214.28261
U0236244	Lindsaea	pallida	1	0	0	0	1	1	1	1	0	0	0	256.026316	325.368421	198.473684	1059.05263	235.105263	2661.10526
K000115353	Lindsaea	parasitica	1	0	0	0	1	1	1	1	0	0	0	254.19403	303.925373	208.507463	1004.74627	493.701493	2938.61194
U0239024	Lindsaea	pickeringii	1	0	0	0	1	0	1	1	0	0	0	277	329.428571	232.857143	1464	444	3645.57143
K000116395	Lindsaea	pulchella	1	0	0	0	1	0	1	1	0	0	0	196.290123	253.265432	144.475309	966.475309	495.37037	2924.39506
U0239011	Lindsaea	pulchra	1	0	0	0	1	0	1	1	0	0	0	241.047619	294.047619	194.095238	1043.57143	503.904762	3001.2381
MO1084039	Lindsaea	quadrangularis	1	0	0	0	1	1	1	1	0	0	0	235.5	302.156051	174.859873	1168.62739	292.703822	3028.83439
U0236305	Lindsaea	reniformis	1	0	0	0	1	1	1	1	0	0	0	260.228571	322.857143	210.714286	1147.85714	335.914286	3025.25714
K000116381	Lindsaea	rigida	1	0	0	0	1	0	1	1	0	0	0	219.558559	270.441441	171.216216	862.720721	472.774775	2702.6036
U0239156	Lindsaea	rigidiuscula	1	0	0	0	1	1	1	1	0	0	0	277.538462	349.846154	213.769231	1251.07692	487.307692	3343.92308
K000721641	Lindsaea	rufa	1	0	0	0	1	1	1	1	0	0	0	216.5	292	140.1	834.8	301.6	2099.6
U0149974	Lindsaea	sagittata	1	0	0	0	1	1	1	1	0	0	0	265.823529	330.235294	214.705882	1116.05882	288.176471	2690.47059
U0239095	Lindsaea	schomburgkii	1	0	0	0	1	1	1	1	0	0	0	246.307692	310.474359	186.974359	994.961538	334.346154	2573.19231
U0087323	Lindsaea	semilunata	1	0	0	0	1	1	1	1	0	0	0	253.555556	322.111111	192.555556	836.333333	279.388889	2067.11111
E00413926	Lindsaea	stricta	1	0	0	0	1	1	1	1	0	0	0	237.08399	302.286089	176.288714	1030.63517	236.461942	2537.5958
U0236420	Lindsaea	surinamensis	1	0	0	0	1	1	1	1	0	0	0	289.714286	362.714286	232.285714	1145.42857	350	3047
U0239213	Lindsaea	taeniata	1	0	0	0	1	1	1	1	0	0	0	242.833333	305.666667	181.738095	1136.7619	534.238095	3376.09524
U0238974	Lindsaea	tenuifolia	1	0	0	1	1	1	1	1	0	0	0	253.05618	306.078652	203.606742	951.573034	517.752809	2925.76404
U0236423	Lindsaea	tenuis	1	0	0	0	1	1	1	1	0	0	0	262.111111	328	201.222222	1212.88889	277.333333	2787.55556
U0007350	Lindsaea	tetraptera	1	0	0	0	1	1	1	1	0	0	0	244.366667	307.433333	187.566667	847.733333	347.533333	2234.96667
U0239006	Lindsaea	trichomanoides	1	0	0	0	1	1	1	1	0	0	0	114.003003	218.197197	15.3283283	1130.43744	829.753754	3989.57558
U0239167	Lindsaea	ulei	1	0	0	0	1	1	1	1	0	0	0	272.909091	337.409091	209.318182	997.272727	318	2714.77273
US00991238	Lindsaea	virescens	1	0	0	0	1	1	1	1	0	0	0	231.727273	321.181818	136.727273	721.363636	122.272727	1628.90909
E00413934	Lindsaea	wernerii	1	0	0	0	1	1	1	1	0	0	0	211.894737	272.368421	153.263158	1111.36842	618.684211	3480.63158

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K001040170	Lithostegia	foeniculacea	1	0	0	1	1	1	1	1	0	0	1	158.5	258.318182	17.2727273	662.136364	56.1363636	1207.81818
Lellinger 1989	Llavea	cordifolia	1	0	0	0	0	1	1	1	0	0	0	179.695035	285.893617	66.5602837	574.141844	75.7304965	1142.02128
U0225143	Lomagramma	guianensis	1	0	0	0	1	0	0	0	0	0	1	252.134328	319.238806	186.835821	990.91791	324.962687	2635.8209
K000590585	Lomariopsis	marginata	0	0	0	0	0	1	0	0	1	1	1	229.526316	309.315789	144.210526	709	177.473684	1706.26316
K000435704	Lomariopsis	pollicina	0	0	0	0	0	1	0	0	1	1	1	208.368421	285.631579	122.333333	788.859649	129.929825	1553.33333
Holtum 1954	Lomariopsis	spectabilis	0	0	0	0	0	1	0	0	1	1	1	231.512195	299.670732	157.487805	1115.19512	324.853659	2641.91463
Large & Braggins 2004	Lophosoria	quadripinnata	1	0	0	1	1	1	1	1	1	0	0	160.645885	228.714464	92.3004988	767.109726	203.30798	1952.97506
Flora of Zimbabwe	Loxogramme	abyssinica	0	1	1	0	1	0	0	1	1	1	0	191.567797	274.135593	101.898305	663.635593	77.5254237	1461.31356
eFlora of China	Loxogramme	avenia	0	1	1	0	1	0	0	1	1	1	0	232.36	286.88	179.91	1009.78	389.29	2709.32
eFlora of China	Loxogramme	duclouxii	0	1	1	0	0	0	0	1	1	1	0	144.090395	287.050847	-4.31638418	697.740113	169.259887	1757.28814
eFlora of China	Loxogramme	grammitoides	0	1	1	0	1	0	0	1	1	1	0	146.638158	288.434211	4.61184211	790.434211	215.921053	2043.88816
eFlora of China	Loxogramme	salicifolia	0	1	1	0	0	0	0	1	1	1	0	162.533074	271.540856	46.5992218	1081.29572	250.015564	2561.18288
K000640371	Loxsomopsis	pearcei	1	0	0	0	1	1	1	1	0	0	0	159.946429	223.160714	97.8214286	852.5	243.785714	2226.73214
US00821448	Lygodium	articulatum	1	0	0	0	0	1	1	0	0	0	0	127.432387	227.038397	36.4040067	735.390651	481.003339	2390.0217
Lellinger 1989	Lygodium	heterodoxum	1	0	0	0	0	0	1	0	0	0	0	252.0625	328.1	180.916667	1251.36667	193.225	2803.18333
US821451	Lygodium	japonicum	1	0	0	1	0	1	1	0	0	0	0	180.560561	308.750751	46.3143143	755.071071	168.29029	1737.85085
H1592445	Lygodium	kerstenii	1	0	0	1	0	1	1	0	0	0	0	227.240964	318.722892	125.457831	711.481928	46.1084337	1200.20482
H1592444	Lygodium	lanceolatum	1	0	0	0	0	1	1	0	0	0	0	212.089552	291.58209	120.671642	903.432836	99.4477612	1658.52239
eFlora of North America	Lygodium	microphyllum	1	0	0	0	0	1	1	0	0	0	0	243.721722	324.053053	146.832833	774.424424	112.796797	1557.02002
eFlora of North America	Lygodium	palmatum	1	0	0	0	0	1	1	0	0	0	0	127.826923	306.596154	-48.1346154	335.865385	263.365385	1201.13462
Lellinger 1989	Lygodium	radiatum	1	0	0	0	0	1	1	0	0	0	0	257.648045	319.396648	202.843575	1287.32402	276.73743	3290.96089
K001057826	Lygodium	reticulatum	1	0	0	0	0	1	1	0	0	0	0	232.282143	305.992857	146.507143	1131.39643	124.614286	1997.64643
eFlora of China	Lygodium	salicifolium	1	0	0	0	0	1	1	0	0	0	0	243.266304	310.853261	168.755435	915.755435	312.554348	2346.85326
MO3628487	Lygodium	volubile	1	0	0	0	0	1	1	0	0	0	0	240.719072	312.597938	170.002577	773.543814	250.448454	2023.33505
US01169104	Macrothelypteris	torresiana	1	0	0	0	1	1	1	1	0	0	1	195.145145	297.505506	89.3463463	814.421421	233.056056	2054.79279
YU001227	Marattia	alata	1	0	0	0	1	1	0	1	1	0	1	220.666667	291.866667	144.444444	627.2	168.933333	1656.97778
BR6976767	Marattia	attenuata	1	0	0	0	1	1	0	1	1	0	1	219.879518	283.518072	153.927711	665.710843	261.831325	1736.31325
K000229611	Marattia	douglasii	1	0	0	0	1	1	0	1	1	0	1	178.952381	245.047619	115.619048	759.809524	347.142857	2232.28571
K000435394	Marattia	fraxinea	1	0	0	0	1	1	0	1	1	0	1	224.064516	292.85744	157.798127	895.492196	154.237253	2053.77732
NSW Flora Online	Marattia	howeana	1	0	0	0	1	1	0	1	1	0	1	192.349206	257.015873	129.333333	525.587302	306.857143	1590.12698
K00006883	Marattia	laevis	1	0	0	0	1	1	0	1	1	0	1	168.344828	235.880878	96.7523511	705.893417	227.84953	1891.77429
K000574490	Marattia	laxa	1	0	0	0	1	1	0	1	1	0	1	188.8	288.285714	86.8571429	673.828571	142.228571	1533.54286
B200090310	Marattia	melanesica	1	0	0	0	1	1	0	1	1	0	1	195.047619	253.428571	139.904762	990.571429	525.428571	3066.95238
Flora of Australia Online	Marattia	oreades	1	0	0	0	1	1	0	1	1	0	1	218.685466	300.425163	123.123644	1094.06074	120.607375	1924.65076

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US00134430	Marattia	pellucida	1	0	0	0	1	1	0	1	1	0	1	245.545024	307.971564	178.492891	1080.65403	351.2891	2625.63981
BM000786773	Marattia	salicifolia	1	0	0	0	1	1	0	1	1	0	1	208.307692	295.384615	107.230769	958.923077	81.0769231	1747.84615
Brownsey & Perrie 2014b	Marattia	salicina	1	0	0	0	1	1	0	1	1	0	1	161.047619	257.428571	67.5238095	704.666667	289.142857	1863.33333
Lindsay & Middleton 2016	Marattia	sambucina	1	0	0	0	1	1	0	1	1	0	1	246.489796	297.469388	196.391837	975.314286	327.861224	2621.52653
K000229616	Marattia	squamosa	1	0	0	0	1	1	0	1	1	0	1	146.197802	209.692308	85.9340659	1012.26374	446.32967	2893.73626
K000574488	Marattia	weinmannifolia	1	0	0	0	1	1	0	1	1	0	1	184.597938	279.134021	84.9896907	834.494845	99.5051546	1663.05155
K000636065	Marattia	weneri	1	0	0	0	1	1	0	1	1	0	1	168.544218	230.095238	112.272109	982.14966	531.115646	3032.34014
Crouch et al. 2011	Marsilea	aegyptiaca	0	0	0	0	0	0	1	0	0	0	0	173.017544	316.280702	17.6842105	175.263158	31.2280702	368.526316
eFlora of North America	Marsilea	ancyclopoda	0	0	0	0	0	0	1	0	0	0	0	250	344.533333	143.6	688.133333	45.8666667	1159.73333
eFlora of North America	Marsilea	ancylopoda	0	0	0	0	0	0	1	0	0	0	0	209.679012	305.604938	116.246914	505.259259	85.0617284	1105.35802
Andrews 1990	Marsilea	angustifolia	0	0	0	0	0	0	1	0	0	0	0	256.697947	369.812317	122.087977	513.043988	20.7565982	811.032258
K000435869	Marsilea	botryocarpa	0	0	0	0	0	0	1	0	0	0	0	268.666667	346.095238	196.095238	252.380952	62.7619048	654.952381
Crouch et al. 2011	Marsilea	capensis	0	0	0	0	0	0	1	0	0	0	0	179.891892	298.054054	43.9459459	272.918919	53.1351351	640.864865
Andrews 1990	Marsilea	crenata	0	0	0	0	0	0	1	0	0	0	0	260.892231	349.18797	155.373434	797.799499	61.358396	1383.92481
MO1827895	Marsilea	crotophora	0	0	0	0	0	0	1	0	0	0	0	261.741007	342.618705	181.741007	922.446043	158.647482	2025.46763
K000632698	Marsilea	deflexa	0	0	0	0	0	0	1	0	0	0	0	247.345455	325.672727	171.709091	845.781818	39.7818182	1613.70909
Andrews 1990	Marsilea	drummondii	0	0	0	0	0	0	1	0	0	0	0	186.732733	337.87988	44.4384384	148.597598	75.7287287	424.086086
Crouch et al. 2011	Marsilea	ephippiocarpa	0	0	0	0	0	0	1	0	0	0	0	216.468085	317.361702	85.0638298	346.893617	27.4468085	655.06383
Crouch et al. 2011	Marsilea	farinosa	0	0	0	0	0	0	1	0	0	0	0	191.142857	317.714286	18.952381	281.333333	15.3333333	539.142857
Andrews 1990	Marsilea	hirsuta	0	0	0	0	0	0	1	0	0	0	0	211.52953	351.391391	63.6396396	204.502503	53.4694695	454.343343
Crouch et al. 2011	Marsilea	macrocarpa	0	0	0	0	0	0	1	0	0	0	0	177.142857	292.614719	29.6277056	281.74026	35.9220779	611.073593
eFlora of North America	Marsilea	macropoda	0	0	0	0	0	0	1	0	0	0	0	216.823529	349.764706	68.7058824	330.588235	77.7647059	756.117647
Crouch et al. 2011	Marsilea	minuta	0	0	0	0	0	0	1	0	0	0	0	245.606936	353.225434	132.127168	611.82659	58.8323699	1093.0289
eFlora of North America	Marsilea	mollis	0	0	0	0	0	0	1	0	0	0	0	167.123506	296.286853	36.0557769	421.569721	30.9322709	725.856574
Andrews 1990	Marsilea	mutica	0	0	0	0	0	0	1	0	0	0	0	214.818819	317.851852	95.4264264	510.86987	85.3973974	1021.85185
Crouch et al. 2011	Marsilea	nubica	0	0	0	0	0	0	1	0	0	0	0	267.333333	392.461538	123.538462	331.589744	2.76923077	451.128205
eFlora of North America	Marsilea	oligospora	0	0	0	0	0	0	1	0	0	0	0	68.6461538	287.6	-100.4	196.769231	64.8615385	514.923077
Holttum 1954	Marsilea	polycarpa	0	0	0	0	0	0	1	0	0	0	0	256.899408	338.449704	176.781065	702.591716	124.863905	1599.95266
eFlora of North America	Marsilea	quadrifolia	0	0	0	0	0	0	1	0	0	0	0	115.531532	263.543544	-11.8978979	279.905906	143.723724	833.908909
Crouch et al. 2011	Marsilea	schelpeana	0	0	0	0	0	0	1	0	0	0	0	186.347826	272.869565	84.9565217	157.73913	103.826087	533.304348
Crouch et al. 2011	Marsilea	vera	0	0	0	0	0	0	1	0	0	0	0	241.096774	345.354839	112.709677	380.064516	18.8387097	653.870968
eFlora of North America	Marsilea	vestita	0	0	0	0	0	0	1	0	0	0	0	140.166834	323.388945	-21.6	225.533668	34.2874372	483.033166

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Parris et al. 2010	Matonia	foxworthyi	1	0	0	0	1	0	1	1	1	0	0	234.305085	281.118644	191.525424	1159.66102	563.220339	3281.25424
K001109484	Matonia	pectinata	1	0	0	0	1	0	1	1	1	0	0	239.888	293.552	189.6	927.536	427.344	2641.28
US00414139	Matteuccia	struthiopteris	1	0	0	0	0	1	1	1	0	0	1	46.2702703	184.506507	-75.6126126	359.127127	172.425425	1050.24124
K000590540	Maxonia	apiifolia	1	0	0	1	1	1	1	1	0	0	1	245.223529	305.152941	186.4	959.458824	195.011765	2304.54118
U0249569	Megalastrum	atrogriseum	1	0	0	0	1	1	0	1	0	0	1	198.526749	262.831276	138.17284	1180.3786	249.390947	3031.84362
K000512176	Megalastrum	biseriale	1	0	0	0	1	1	0	1	0	0	1	160.045802	222.10687	99.0687023	834.305344	266.091603	2277.12977
K000512199	Megalastrum	subincisum	1	0	0	1	1	1	0	1	0	0	1	207.44142	274.170414	142.823669	994.613018	235.642604	2527.47929
Lellinger 1989	Melpomene	firma	0	1	0	0	1	0	0	1	1	1	0	165.126531	230.383673	98.155102	910.212245	164.726531	2213.77959
Lellinger 1989	Melpomene	fiabelliformis	0	1	0	0	1	0	0	1	1	1	0	122.582878	187.311475	53.0127505	687.704918	152.582878	1705.86521
Lellinger 1989	Melpomene	melanosticta	0	1	0	0	1	0	0	1	1	1	0	221.362319	287.652174	155.507246	819.478261	227.73913	2075.5942
Lellinger 1989	Melpomene	moniliformis	0	1	0	0	1	0	0	1	1	1	0	106.467497	164.785615	45.6127248	847.004149	162.691563	2070.9018
B200139317	Melpomene	peruviana	0	1	0	0	1	0	0	1	1	1	0	145.325301	238.963855	30.4096386	531.156627	64.6987952	1080.0241
Lellinger 1989	Melpomene	pilosissima	0	1	0	0	1	0	0	1	1	1	0	135.674641	198.727273	66.6602871	895.636364	154.220096	2149.89474
US00065990	Melpomene	pseudonutans	0	1	0	0	1	0	0	1	1	1	0	114.831683	176.356436	58.019802	466.653465	186.336634	1266.55446
K000590709	Melpomene	sodiroi	0	1	0	0	1	0	0	1	1	1	0	67.8305085	125.661017	17.3220339	374.305085	208.813559	1149.01695
B200130857	Melpomene	wolfii	0	1	0	0	1	0	0	1	1	1	0	156.581818	224.327273	87.4909091	578.581818	186.509091	1493.49091
Lellinger 1989	Melpomene	xiphopteroides	0	1	0	0	1	0	0	1	1	1	0	171.912773	234.274143	109.264798	893.352025	185.601246	2220.88474
Lellinger 1989	Metaxya	rostrata	1	0	0	0	1	1	0	1	1	0	0	255.009009	317.731732	198.109109	1092.92292	334.175175	2906.62462
US00065726	Microgramma	bifrons	0	1	1	0	0	0	0	1	1	1	1	246	313.939394	175.272727	1095.33333	404.060606	2941.51515
K000590786	Microgramma	fuscopunctata	0	1	1	0	1	0	0	1	1	1	1	245.756322	308.262069	189.622989	994.298851	384.491954	2752.3954
Lellinger 1989	Microgramma	lycopodioides	0	1	1	0	0	0	0	1	1	1	1	239.339339	304.004004	178.101101	987.928929	235.322322	2496.15115
Crouch et al. 2011	Microgramma	mauritiana	0	1	1	0	1	0	0	1	1	1	1	220.06135	296.355828	125.754601	591.95092	82.7607362	1204.68712
K000955029	Microgramma	megalophylla	0	1	1	0	1	0	0	1	1	1	1	259.394322	325.066246	195.955836	942.611987	356.826498	2601.11041
Lellinger 1989	Microgramma	nitida	0	1	1	0	0	0	0	1	1	1	1	249.597796	323.206612	175.024793	918.396694	200.187328	2208.66116
K000955916	Microgramma	percussa	0	1	1	0	1	0	0	1	1	1	1	236.139139	301.067067	173.740741	1075.18719	296.129129	2793.37237
K000955965	Microgramma	squamulosa	0	1	1	0	1	0	0	1	1	1	1	191.697517	288.501129	81.4492099	508.591422	146.162528	1241.19639
Lellinger 1989	Microgramma	tecta	0	1	1	0	0	0	0	1	1	1	1	229.438806	299.635821	160.38209	942.955224	253.779104	2390.38806
K000913940	Microlepidia	hookeriana	1	0	0	0	1	1	1	1	0	0	0	200.998158	282.500921	111.075506	1145.31123	266.983425	2575.86372
K000812125	Microlepidia	marginata	1	0	0	0	1	1	1	1	0	0	0	159.742743	303.60961	16.7797798	766.870871	214.452452	1961.74174
L3567875	Microlepidia	obtusiloba	1	0	0	0	1	1	1	1	0	0	0	197.086093	280.156291	105.936424	1428.24371	340.397351	3120.23841
L3567778	Microlepidia	platyphylla	1	0	0	0	1	1	1	1	0	0	0	191.386503	278.02454	81.1042945	991.484663	103.815951	1883.6319
L3567748	Microlepidia	pseudostrigosa	1	0	0	0	1	1	1	1	0	0	0	153.132948	298.393064	6.71676301	624.682081	187.572254	1746.84393
K000473081	Microlepidia	speluncae	1	0	0	1	1	1	1	1	0	0	0	225.418418	298.521522	146.077077	1059.52753	222.124124	2325.54254
K000448541	Microlepidia	strigosa	1	0	0	0	1	1	1	1	0	0	0	187.382382	274.891892	91.7927928	1096.11712	216.837838	2416.35135
L3567903	Microlepidia	substrigosa	1	0	0	1	1	1	1	1	0	0	0	193.671642	278.597015	97.641791	1269.24378	244.995025	2713.93035

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Lellinger 1989 B200150133	Micropolypodium Micropolypodium	hyalinum taenifolium	0 1	1 0	0 0	0 0	1 1	1 1	0 0	1 1	1 1	1 1	0 0	140.742268 210.202899	194.824742 274.52818	84.8041237 150.721417	1072.30928 1156.74396	220.783505 220.376812	2788.80412 2890.02899
Lellinger 1989 K000603163	Micropolypodium Microsorium	zurquinum commutatum	0 0	1 1	0 0	0 0	1 1	0 0	1 0	1 0	1 1	1 1	0 1	214.666667 223.143469	284.666667 276.946467	151.333333 173.344754	1220.54545 901.010571	221.818182 460.604651	3115.09091 2712.86258
Lindsay & Middleton 2016 K000959706	Microsorium Microsorium	dilatatum fortunei	1 0	0 1	0 1	0 0	1 1	0 0	0 0	1 0	1 1	1 1	1 1	213.228346 168.557377	291.307087 251.196721	125.212598 72.557377	1253.73228 1204.09836	287.055118 296.464481	2693.43307 2779.45355
K000649808	Microsorium	grossum	0	1	0	0	1	0	0	0	1	1	1	254.731183	323.376344	172.735484	840.56513	155.707415	1722.03206
K000435917	Microsorium	lastii	0	1	1	0	1	0	0	1	1	1	1	256.26087	320	183.304348	936.608696	106.26087	1755.82609
US01169004	Microsorium	linguiforme	0	1	1	0	1	0	0	1	1	1	1	234.61157	287.278237	187.206612	985.988981	497.818182	2921.06887
eFlora of China	Microsorium	membranaceum	0	1	1	0	1	0	0	0	1	1	1	185.777778	274.941799	68.4761905	972.783069	64.2010582	1716.79365
Lindsay & Middleton 2016	Microsorium	membranifolium	1	0	0	0	1	0	0	1	1	1	1	242.957123	297.842324	189.576763	995.208852	427.806362	2768.87414
Lindsay & Middleton 2016 K000435916	Microsorium Microsorium	musifolium pappei	0 0	1 1	1 1	0 0	1 1	0 0	0 0	1 0	1 1	1 1	1 1	243.508197 206.153846	296.262295 286	193.147541 113.74359	929.147541 840.974359	533.278689 67.1794872	2896.19672 1456.25641
K000599269	Microsorium	papuanum	0	1	1	0	1	0	0	1	1	1	1	196.490722	254.890722	142.507216	889.624742	487.591753	2792.14845
eFlora of China	Microsorium	pteropus	1	0	1	0	1	0	0	0	1	1	1	240.459893	306.192513	171.935829	910.545455	393.508021	2535.94652
K000959736	Microsorium	punctatum	0	1	1	0	1	0	0	0	1	1	1	230.384384	298.565566	156.995996	847.472472	220.119119	2015.13413
Brownsey & Perrie 2014a K000598601	Microsorium Microsorium	pustulatum rubidum	0 0	1 1	0 0	0 0	1 1	0 0	0 0	1 0	1 1	1 1	1 1	125.975976 247.754386	229.750751 303.894737	27.8278278 194.245614	401.192192 923.052632	212.82983 409.54386	1230.63564 2642.5614
Flora of Zimbabwe	Microsorium	scandens	0	1	0	0	1	0	0	0	1	1	1	151.428428	255.737738	39.008008	472.491491	192.794795	1309.22122
EIG11909	Microsorium	spectrum	0	1	1	0	1	0	0	1	1	1	1	220.507937	284.126984	156.984127	681.650794	362.857143	2074.66667
K000603500	Microsorium	zippelii	0	1	1	0	1	0	0	0	1	1	1	188.404624	259.075145	103.248555	887.132948	181.942197	1996.23121
Lellinger 1989 L3568830	Mildella Monachosorum	intramarginalis flagellare	1 1	0 0	0 0	0 0	1 1	1 1	1 1	1 1	0 1	0 1	0 0	178.511712 139.374118	262.479279 283.472941	94.3135135 -5.34117647	842.940541 850.734118	100.843243 229.552941	1818.82523 2190.75765
K000959988	Monogramma	acrocarpa	0	1	1	0	1	1	0	1	1	1	0	210	290.969325	118.331288	1098.1227	154.503067	2050.55215
Andrews 1990	Monogramma	dareicarpa	0	1	1	0	1	1	0	1	1	1	0	227.506849	289.863014	164.60274	948.246575	342.493151	2421.89041
B -W19588010	Monogramma	graminea	0	1	1	0	1	1	0	1	1	1	0	196.862745	269.647059	123.137255	862.392157	198.862745	1885.76471
eFlora of China	Neolepisorus	ensatus	0	1	1	0	1	0	0	1	1	1	1	161.287129	261.465347	28.3762376	649.445545	51.3267327	1170.53465
eFlora of China	Neolepisorus	ovatus	0	1	0	0	1	0	0	1	1	1	1	174.989011	312.512821	27.1355311	667.611722	119.831502	1387.47253
K000084586	Nephrolepis	acuminata	1	0	0	0	1	1	1	1	0	0	1	203.173333	265.386667	145.333333	997.52	604.213333	3255.14667
Andrews 1990	Nephrolepis	auriculata	1	1	0	0	1	1	1	1	0	0	1	190.859504	278.413223	89.8724911	1174.19599	218.59268	2487.61983
K000200107	Nephrolepis	biserrata	1	0	0	0	1	1	1	1	0	0	1	244.917918	311.953954	176.942943	971.079079	239.408408	2328.25125
Lindsay & Middleton 2016	Nephrolepis	cordifolia	1	0	0	0	1	1	1	1	0	0	1	180.672673	270.500501	76.4744745	552.003003	203.064064	1477.32032
Lellinger 1989	Neurocallis	praestantissima	1	0	0	0	0	0	0	0	0	0	0	205.188406	263.855072	148.927536	1159.68116	367.072464	3180.11594
Lellinger 1989	Neurodium	lanceolatum	0	1	1	0	0	0	0	0	1	1	1	229.794595	297.708108	159.372973	857.643243	192.605405	2173.84865
EIG11620	Niphidium	albopunctatissim	0	1	1	0	1	0	0	1	1	1	1	154.842912	230.8659	69.3333333	544.329502	113.961686	1275.57088

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Lellinger 1989	Niphidium	crassifolium	0	1	1	0	1	0	0	1	1	1	1	210.259259	281.633634	139.423423	899.04004	195.802803	2180.18118
Lellinger 1989	Niphidium	nidulare	0	1	1	0	1	0	0	1	1	1	1	187.229814	250.223602	127.677019	1221.62733	232.409938	3067.6646
Lellinger 1989	Notholaena	affinis	1	0	0	0	1	1	0	1	0	0	0	251.561644	343.452055	165.808219	748.273973	17.5616438	1427.42466
eFlora of North America	Notholaena	aschenborniana	1	0	0	0	1	1	0	1	0	0	0	173.010309	299.711134	40.8041237	315.56701	43.0515464	609.979381
US00141978	Notholaena	bryopoda	1	0	0	0	1	1	0	1	0	0	0	171.621622	291.189189	40.5405405	221.837838	50.2162162	504.486486
eFlora of North America	Notholaena	californica	1	0	0	1	1	1	0	1	0	0	0	191.408072	362.654709	44.9865471	137.506726	11.7668161	272.06278
Lellinger 1989	Notholaena	candida	1	0	0	0	1	1	0	1	0	0	0	213.903382	328.714976	94.4251208	498.36715	34.4830918	906.985507
eFlora of North America	Notholaena	grayi	1	0	0	0	1	1	0	1	0	0	0	166.336134	335.243697	5.78151261	275.428571	30.2184874	501.596639
eFlora of North America	Notholaena	greggii	1	0	0	1	1	1	0	1	0	0	0	200.869565	338	53.6521739	200.608696	25.4782609	376.782609
eFlora of North America	Notholaena	lemmonii	1	0	0	0	1	1	0	1	0	0	0	226.318841	362.492754	85.9710145	312.550725	16.2318841	499.362319
eFlora of North America	Notholaena	neglecta	1	0	0	1	1	1	0	1	0	0	0	161.28	303.84	18.48	261.12	44.08	525.52
MO3624843	Notholaena	schaffneri	1	0	0	0	1	1	0	1	0	0	0	196.129032	317.032258	66.8387097	497.870968	33.8709677	833.290323
eFlora of North America	Notholaena	standleyi	1	0	0	0	1	1	0	1	0	0	0	170.613861	347.716172	0.67326733	176.917492	25.4653465	366.686469
Lellinger 1989	Notholaena	sulphurea	1	0	0	0	1	1	0	1	0	0	0	173.753086	273.08642	71.4567901	368.962963	55.654321	761.382716
MO2398865	Notholaena	trichomanoides	1	0	0	0	1	1	0	1	0	0	0	240.852459	311.344262	163.934426	572.229508	152.459016	1461.21311
Knapp 2011	Nothoperanema	hendersonii	1	0	0	1	1	1	1	1	0	0	1	146.777202	224.746114	47.4093264	1101.33679	230.279793	2469.70984
H1125784	Nothoperanema	shikokianum	1	0	0	1	1	1	1	1	0	0	1	140.330827	275.323308	0.18045113	915.759398	243.218045	2358.52632
H1592677	Ochropteris	pallens	1	0	0	1	1	1	1	1	0	0	0	184.933333	252.533333	122.266667	777.866667	208.533333	1802.66667
L3579910	Odontosoria	aculeata	1	0	0	1	1	1	1	1	0	0	0	223.835616	294.273973	147.205479	619.744292	196.849315	1677.23288
Lindsay & Middleton 2016	Odontosoria	chinensis	1	0	0	1	1	1	1	1	0	0	0	176.96997	291.238238	60.009009	779.332332	230.702703	2001.24625
US00048671	Odontosoria	scandens	1	0	0	1	1	1	1	1	0	0	0	218.145251	287.519553	144.201117	622.726257	224.648045	1722.77095
L3579930	Odontosoria	wrightiana	1	0	0	1	1	1	1	1	0	0	0	246.716049	320.888889	164.444444	610.395062	161.135802	1531.08642
EIG6770	Oleandra	articulata	1	0	0	0	1	1	1	1	0	0	1	231.912925	295.861224	172	992.070748	298.291156	2605.1102
Holtum 1954	Oleandra	pistillaris	1	0	1	0	0	1	1	1	0	0	1	210.08589	266.245399	154.392638	985.93865	421.214724	2812
K001089106	Onoclea	sensibilis	1	0	0	0	0	0	1	1	0	0	1	97.0630631	273.441441	-79.3023023	361.31031	205.364364	1152.02903
MO1835823	Onocleopsis	hintonii	1	0	0	0	0	1	1	1	0	0	1	186.666667	300.533333	70.1333333	664.4	36	1110.8
K000812021	Onychium	contiguum	1	0	0	1	1	1	1	1	0	0	0	122.668731	215.77709	-0.6006192	967.034056	107.659443	1916.21672
eFlora of China	Onychium	japonicum	1	0	0	1	0	1	1	1	0	0	0	165.144144	291.481481	31.017017	769.425425	160.601602	1779.47147
Lindsay & Middleton 2016	Ophioglossum	costatum	1	0	0	0	0	0	0	0	1	1	0	261.568862	352.187625	172.942116	728.355289	40.3473054	1327.84032
Lellinger 1989	Ophioglossum	crotalophoroides	1	0	1	0	0	0	0	0	1	1	0	103.035019	194.357977	12.1245136	488.645914	197.042802	1370.32685
Tryon & Tryon 1982	Ophioglossum	engelmannii	1	0	1	0	0	0	0	0	1	1	0	142.968675	319.787952	-41.3204819	375.537349	120.771084	989.012048
Crouch et al. 2011	Ophioglossum	gomezianum	1	0	1	0	0	0	0	0	1	1	0	244.470588	335.019608	151.764706	530.823529	42.3529412	1073.05882
Lindsay & Middleton 2016	Ophioglossum	gramineum	1	0	1	0	0	0	0	0	1	1	0	219.493562	316.806867	112.360515	636.626609	147.939914	1407.88841



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Andrews 1990	Ophioglossum	lusitanicum	1	0	1	0	0	0	0	0	1	1	0	158.762763	297.616617	36.5265265	220.437437	95.9299299	619.701702
Lellinger 1989	Ophioglossum	nudicaule	1	0	1	0	0	0	0	0	1	1	0	197.164912	290.814035	98.4491228	615.108772	179.978947	1533.94386
Lindsay & Middleton 2016	Ophioglossum	pendulum	0	1	0	0	0	0	0	0	1	1	0	223.086086	286.545546	157.14014	902.826827	373.600601	2483.51852
Andrews 1990	Ophioglossum	petiolatum	1	0	1	0	0	0	0	0	1	1	0	161.464151	274.716981	37.909434	835.267925	227.743396	2084.33962
H1120549	Ophioglossum	pusillum	1	0	1	0	0	0	0	0	1	1	0	79.2405063	241.848101	-63.3670886	432.531646	149.139241	1136.17722
Crouch et al. 2011	Ophioglossum	reticulatum	1	0	1	0	0	0	0	0	1	1	0	218.133133	301.784785	124.311311	714.961962	128.179179	1568.14314
H1120497	Ophioglossum	thermale	1	0	1	0	0	0	0	0	1	1	0	153.221239	287.80531	10.5663717	662.584071	170.460177	1677.85841
Crouch et al. 2011	Ophioglossum	vulgatum	1	0	1	0	0	0	0	0	1	1	0	78.6376376	201.344344	-25.0670671	271.131131	148.813814	834.417417
eFlora of China	Osmunda	banksiifolia	1	0	0	0	0	1	0	1	1	0	0	212.314176	303.777778	117.37931	1011.43295	296.689655	2441.51724
eFlora of China	Osmunda	claytoniana	1	0	0	0	0	1	0	1	1	0	0	64.7637638	242.123123	-119.85986	436.851852	197.947948	1244.93493
eFlora of China	Osmunda	japonica	1	0	0	0	0	1	0	1	1	0	0	145.781782	292.171171	-1.53453453	686.375375	190.209209	1774.98398
eFlora of China	Osmunda	javanica	1	0	0	0	0	1	0	1	1	0	0	200.93578	296.275229	102.513761	791.321101	238.40367	2000.47706
H690328	Osmunda	lancea	1	0	0	0	0	1	0	1	1	0	0	141.598566	295.333333	-11.0394265	760.939068	218.731183	2071.56989
K000435397	Osmunda	regalis	1	0	0	0	0	1	0	1	1	0	0	94.004004	218.646647	-18.8778779	333.353353	175.223223	1010.7007
K001057776	Osmunda	vachellii	1	0	0	0	0	1	0	1	1	0	0	197.525581	319.581395	63.5906977	754.465116	129.618605	1596.20465
eFlora of North America	Osmundastrum	cinnamomeum	1	0	0	0	0	1	0	1	1	0	0	78.8316832	265.485149	-108.528053	329.537954	220.40264	1105.65677
US00991172	Paesia	scaberula	1	0	0	1	1	1	1	1	0	0	1	104.923924	209.372372	9.6956957	911.865866	654.765766	3157.77678
Andrews 1990	Paraceterach	muelleri	1	0	0	0	1	1	0	1	0	0	0	235.515738	328.939467	122.237288	692.237288	38.716707	1102.33414
eFlora of China	Paragymnopteris	delavayi	1	0	0	0	1	1	1	1	0	0	0	93.6879433	213.021277	-60.6808511	483.560284	24.7943262	822.212766
eFlora of China	Paragymnopteris	marantae	1	0	0	0	1	1	1	1	0	0	0	119.430449	247.125958	-4.38116101	310.939759	57.2727273	672.107338
eFlora of China	Paragymnopteris	vestita	1	0	0	0	1	1	1	1	0	0	0	116.174359	233.046154	-36.6974359	572.789744	38.1641026	1010.06154
K000913138	Pecluma	alfredii	0	1	0	0	1	1	0	1	1	1	1	194.51074	272.778043	116.735084	839.923628	112.176611	1897.27446
K000200026	Pecluma	eurybasis	0	1	0	0	1	1	0	1	1	1	1	161.870824	227.385301	92.3073497	782.788419	170.623608	1906.77506
K000954688	Pecluma	pectinatiformis	0	1	0	0	1	1	0	1	1	1	1	185.227723	277.386139	84.1386139	687.663366	228.673267	1754.39604
eFlora of North America	Pecluma	ptilodon	0	1	0	0	1	1	0	1	1	1	1	229.044025	301.509434	154.553459	778.201258	305.559748	2164.01258
eFlora of North America	Pellaea	andromedifolia	1	0	0	1	1	1	1	1	0	0	0	151.548139	296.259307	35.4172015	292.233633	9.23491656	535.32991
eFlora of North America	Pellaea	atropurpurea	1	0	0	0	1	1	1	1	0	0	0	127.776777	312.27027	-59.962963	323.046046	144.408408	952.741742
K000435556	Pellaea	boivinii	1	0	0	0	1	1	1	1	0	0	0	211.056604	287.320755	121.735849	889.660377	110.90566	1661.01887
eFlora of North America	Pellaea	brachyptera	1	0	0	0	1	1	1	1	0	0	0	79.7913043	268.191304	-45.0086957	577.826087	46.8521739	1170.83478
eFlora of North America	Pellaea	breweri	1	0	0	0	1	1	1	1	0	0	0	26	206.954704	-108.933798	264.620209	64.6759582	625.937282
eFlora of North America	Pellaea	bridgesii	1	0	0	0	1	1	1	1	0	0	0	58.1243523	235.284974	-70.2176166	435.668394	44.984456	912.860104
eFlora of China	Pellaea	calomelanos	1	0	0	0	1	1	1	1	0	0	0	174.078078	280.744745	41.2292292	352.527528	45.6806807	743.893894
eFlora of North America	Pellaea	cordifolia	1	0	0	0	1	1	1	1	0	0	0	155.16129	276.258065	25.827957	456.494624	37.4623656	803.72043
K000435551	Pellaea	doniana	1	0	0	0	1	1	1	1	0	0	0	237.964602	319.032448	155.628319	680.973451	59.1563422	1446.93805

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K000435554	Pellaea	dura	1	0	0	0	1	1	1	1	0	0	0	205.72093	290.232558	112.883721	760.930233	80.372093	1464.69767
K001090029	Pellaea	falcata	1	0	0	0	1	1	1	1	0	0	0	151.321321	262.204204	34.1171171	388.606607	170.348348	1106.6046
eFlora of North America	Pellaea	glabella	1	0	0	0	1	1	1	1	0	0	0	82.2404372	281.657559	-113.821494	261.29326	115.628415	759.832423
eFlora of North America	Pellaea	intermedia	1	0	0	0	1	1	1	1	0	0	0	147.491525	293.977401	4.53107345	252.949153	45.9774011	527.276836
US00134456	Pellaea	longipilosa	1	0	0	0	1	1	1	1	0	0	0	216.08	315.306667	100.373333	586.853333	7.65333333	1026.82667
eFlora of North America	Pellaea	mucronata	1	0	0	1	1	1	1	1	0	0	0	136.93994	305.763764	6.67667668	286.853854	19.1981982	554.717718
Lellingner 1989	Pellaea	ovata	1	0	0	1	1	1	1	1	0	0	0	176.534799	273.355311	73.2234432	507.919414	63.3846154	1039.67766
H1592762	Pellaea	pectiniformis	1	0	0	0	1	1	1	1	0	0	0	211.979487	290.94359	117.917949	711.979487	46.8512821	1297.89744
B200134475	Pellaea	pinnata	1	0	0	0	1	1	1	1	0	0	0	218.947368	301.157895	127.473684	889.684211	36.3157895	1739.36842
US142028	Pellaea	pringlei	1	0	0	0	1	1	1	1	0	0	0	180.956522	298.608696	60.6086957	695.362319	27.4782609	1095.27536
K001090021	Pellaea	rotundifolia	1	0	0	0	1	1	1	1	0	0	0	113.596992	210.43609	25.3263158	413.193985	258.72782	1330.56541
MO3624802	Pellaea	sagittata	1	0	0	0	1	1	1	1	0	0	0	152.809917	246.644628	53.4380165	512.033058	68.4628099	1013.63636
Lellingner 1989	Pellaea	ternifolia	1	0	0	0	1	1	1	1	0	0	0	140.777202	239.930915	35.582038	449.7962	68.4801382	914.435233
eFlora of North America	Pellaea	truncata	1	0	0	0	1	1	1	1	0	0	0	155.814727	337.610451	-6.05700713	168.08076	30.3135392	378.864608
eFlora of North America	Pellaea	wrightiana	1	0	0	0	1	1	1	1	0	0	0	139.84456	313.160622	-20.3108808	257.326425	38.7564767	510.290155
B200090557	Pentagramma	triangularis	1	0	0	0	1	1	0	1	0	0	0	145.452452	290.3003	28.6046046	334.983984	23.3573574	648.743744
K001080665	Peranema	cyatheoides	1	0	0	1	1	1	1	1	0	0	1	139.358779	217.245802	42.0732824	1329.38931	215.462595	2846.20763
K000957021	Phanerophlebia	nobilis	1	0	0	0	1	1	1	1	0	0	1	172.240283	279.70318	58.204947	642.862191	64.9611307	1196.89753
eflora of North America	Phanerophlebia	umbonata	1	0	0	0	1	1	1	1	0	0	1	188.666667	305.954023	57.0114943	344.528736	55.6781609	709.793103
K000399321	Phanerosorus	major	1	0	0	0	1	1	1	1	1	0	0	241.714286	288.47619	201.714286	1199.04762	488.666667	3153.42857
K000399312	Phanerosorus	sarmentosus	1	0	0	0	1	1	1	1	1	0	0	260.226415	305.433962	219.698113	1117.58491	628.830189	3325.69811
eFlora of North America	Phegopteris	connectilis	1	0	0	0	1	1	0	1	0	0	1	41.8518519	168.721722	-67.8998999	430.428428	201.159159	1245.38338
eFlora of North America	Phegopteris	hexagonoptera	1	0	0	0	1	1	0	1	0	0	1	113.962521	293.53322	-64.7359455	329.308348	243.850085	1159.11755
K000956051	Phlebodium	decumanum	0	1	0	0	1	0	0	1	1	1	1	247.815951	315.427403	178.846626	816.274029	247.627812	2120.26994
eFlora of North America	Phlebodium	pseudoaureum	0	1	0	0	1	0	0	1	1	1	1	197.990991	267.134134	128.887888	881.444444	144.676677	2101.02903
Lindsay & Middleton 2016	Phymatosorus	cuspidatus	0	1	0	0	1	0	0	1	1	1	1	191.953488	287.293023	65.4511628	775.981395	66.9581395	1441.06977
eFlora of North America	Pilularia	americana	0	0	0	0	0	1	1	0	0	0	0	148.837209	306.669767	16.4465116	300.706977	39.4232558	633.04186
EIG12930	Pilularia	globulifera	0	0	0	0	0	1	1	0	0	0	0	84.3053053	206.746747	-18.7107107	275.983984	158.772773	873.706707
EIG13038	Pilularia	minuta	0	0	0	0	0	1	1	0	0	0	0	162.229885	306.252874	51.7471264	219.747126	30.5747126	532.045977
Lellingner 1989	Pityrogramma	calomelanos	1	0	0	0	1	1	0	1	0	0	0	233.411411	302.351351	164.234234	900.831832	240.620621	2250.74374
Lellingner 1989	Pityrogramma	trifoliata	1	0	0	0	1	1	0	1	0	0	0	210.562832	290.290265	127.543363	728.127434	184.095575	1800.61593
eFlora of China	Plagiogyria	adnata	1	0	0	0	0	1	1	0	1	0	0	172.753181	278.895674	60.1577608	1143.15522	255.73028	2623.79644
K000083720	Plagiogyria	egenolfioides	1	0	0	0	0	1	1	0	1	0	0	157.397938	216.11134	103.051546	936.082474	491.773196	2863.40619

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eFlora of China	Plagiogyria	euphlebia	1	0	0	0	0	1	1	0	1	0	0	154.13013	269.764765	34.0810811	1064.49149	242.632633	2463.10611
eFlora of China	Plagiogyria	glauca	1	0	0	0	0	1	1	0	1	0	0	137.139293	210.06237	55.9085239	915.908524	335.126819	2436.38254
eFlora of China	Plagiogyria	japonica	1	0	0	0	0	1	1	0	1	0	0	152.038601	296.340169	11.4740651	806.303981	247.039807	2107.31484
US00134437	Plagiogyria	koidzumii	1	0	0	0	0	1	1	0	1	0	0	182.594595	269.189189	82.2702703	1264.91892	166.918919	2515.89189
H1123044	Plagiogyria	matsumureana	1	0	0	0	0	1	1	0	1	0	0	98.9367089	261.232068	-56.8016878	766.413502	262.801688	1984.23629
K000501371	Plagiogyria	pectinata	1	0	0	0	0	1	1	0	1	0	0	159.764706	268	45.8823529	549.647059	68.8235294	1062.94118
eFlora of China	Plagiogyria	stenoptera	1	0	0	0	0	1	1	0	1	0	0	160.353887	247.646113	59.9839142	1280.563	197.839142	2611.07239
Flora of Zimbabwe	Platycterium	alcicorne	0	1	0	0	0	0	0	1	1	1	1	238.438095	302.361905	170.32381	780.685714	99.3142857	1508.3619
K000061113	Platycterium	andinum	0	1	0	0	0	0	0	1	1	1	1	202.608696	283.826087	121.73913	645.73913	168.956522	1573.30435
K001044159	Platycterium	bifurcatum	0	1	0	0	0	0	0	1	1	1	1	171.983984	269.19019	58.2492492	546.526527	182.656657	1414.98498
Lindsay & Middleton 2016	Platycterium	coronarum	0	1	0	0	0	0	0	1	1	1	1	255.314685	304.965035	208.475524	892.573427	479.216783	2730.46154
K000049393	Platycterium	elephantotis	0	1	0	0	0	0	0	1	1	1	1	236.702222	315.066667	161.742222	652.728889	92.7822222	1466.81778
Andrews 1990	Platycterium	hillii	0	1	0	0	0	0	0	1	1	1	1	236.709677	314.193548	150.503226	1096.70968	81.1354839	1806.74839
Lindsay & Middleton 2016	Platycterium	holtumii	0	1	0	0	0	0	0	1	1	1	1	252.923077	330.153846	161.076923	681.128205	112.564103	1603.89744
K000435933	Platycterium	madagascariens	0	1	0	0	0	0	0	1	1	1	1	221.904762	300.095238	138.095238	891.52381	188.952381	1884.28571
Lindsay & Middleton 2016	Platycterium	ridleyi	0	1	0	0	0	0	0	1	1	1	1	270.606061	319.454545	225.151515	979.151515	503.333333	2907.69697
BR8711007	Platycterium	stemaria	0	1	0	0	0	0	0	1	1	1	1	251.400778	316.770428	190.77821	792.498054	113.361868	1857.8677
K001044158	Platycterium	superbum	0	1	0	0	0	0	0	1	1	1	1	175.325325	276.675676	55.9479479	576.245245	168.865866	1447.29029
Andrews 1990	Platycterium	veitchii	0	1	0	0	0	0	0	1	1	1	1	206.662577	318.834356	72.3558282	465.533742	74.6134969	892.834356
EIG12592	Platycterium	wandae	0	1	0	0	0	0	0	1	1	1	1	247.484163	300.39819	199.683258	815.076923	408.144796	2510.48869
eflora of China	Platygyria	waltonii	0	0	0	0	1	0	0	1	1	1	1	28.16	172.586667	-158.8	249.413333	2.61333333	350.693333
Andrews 1990	Platyzoa	microphyllum	1	0	0	0	0	1	0	1	0	0	0	260.246246	351.990991	148.747748	718.42042	20.5975976	1099.93594
TAIF288953	Pleocnemia	winitii	1	0	0	1	1	0	0	1	0	0	1	206.721893	293.83432	104.816568	1091.69231	193.727811	2307.79882
K000956005	Pleopeltis	angusta	0	1	0	0	1	0	0	1	1	1	1	197.012844	278.183486	113.73578	831.959633	88.6275229	1758.33394
Lellinger 1989	Pleopeltis	astrolepis	0	1	1	0	1	0	0	1	1	1	1	222.591415	297.109698	148.572337	876.794913	161.004769	2066.21304
Lellinger 1989	Pleopeltis	bombycina	0	1	0	0	1	0	0	1	1	1	1	249.391304	313.913043	182.869565	1142.17391	352	3082.17391
BR13076368	Pleopeltis	buchtienii	0	1	0	0	1	0	0	1	1	1	1	147.368421	223.473684	56.3157895	691.087719	171.403509	1669.57895
ASU0003815	Pleopeltis	crassinervata	1	0	1	0	1	0	0	1	1	1	1	198.445141	278.777429	116.877743	777.793103	99.1034483	1733.8558
Lellinger 1989	Pleopeltis	fallax	0	1	0	0	1	0	0	1	1	1	1	243.555556	330.444444	161.925926	1308.44444	190.962963	2948.2963
Lellinger 1989	Pleopeltis	fructuosa	0	1	1	0	0	0	0	1	1	1	1	178.309278	238.453608	121.56701	1190.49485	270.948454	3140.68041
Lellinger 1989	Pleopeltis	macrocarpa	0	1	1	0	1	0	0	1	1	1	1	167.851852	244.533534	83.5185185	665.195195	139.714715	1580.36136
ASU0003819	Pleopeltis	mexicana	1	0	1	0	1	0	0	1	1	1	1	174.618619	267.735736	76.972973	694.108108	85.1651652	1418.99099
EIG11236	Pleopeltis	munchii	0	1	1	0	1	0	0	1	1	1	1	145.76	237.76	43.92	586.96	58.88	1202.08



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Lellinger 1989	Polypodium	montigenum	0	1	0	0	1	1	0	1	1	1	143.225434	203.895954	81.1791908	1018	152.485549	2451.43353
Lellinger 1989	Polypodium	murorum	0	1	0	0	1	1	0	1	1	1	113.534709	171.373358	55.7110694	548.101313	160.101313	1466.5591
Lellinger 1989	Polypodium	myriolepis	0	1	0	0	1	1	0	1	1	1	161.165775	218.299465	104.171123	1091.36898	226.352941	2818.65241
EIG10987	Polypodium	pellucidum	1	1	0	0	1	1	0	1	1	1	163.15942	227.333333	99.5942029	664.086957	274.550725	1885.97101
MO1899879	Polypodium	platylepis	0	1	0	0	1	1	0	1	1	1	149.462687	244.41791	47.761194	649.164179	48.2686567	1209.34328
BR13076405	Polypodium	plesiosorum	0	1	0	0	1	0	0	1	1	1	189.232598	277.480475	98.6383701	737.606112	105.741935	1636.48557
BR6977726	Polypodium	polycarpon	0	1	1	0	1	0	0	1	1	1	242.065934	308.021978	185.032967	897.164835	157.142857	2114.1978
K000642103	Polypodium	pyrrholepis	0	1	0	0	1	0	0	1	1	1	213.880597	305.61194	118.298507	754	100.238806	1537.01493
BR13076382	Polypodium	rhachipterygium	0	1	0	0	1	0	0	1	1	1	245.02439	334.04878	158.585366	1247.07317	180.97561	2636.43902
Lellinger 1989	Polypodium	rhodopleuron	0	1	0	0	1	0	0	1	1	1	197.116022	288.685083	102.773481	833.535912	116.883978	1795.98895
BR5914890	Polypodium	rosei	1	0	0	0	1	0	0	1	1	1	194.870588	295.694118	92.9176471	749.223529	121.670588	1528.51765
K001044261	Polypodium	scouleri	0	1	0	0	1	0	0	1	1	1	110.267782	208.761506	29.6820084	829.631799	119.748954	1829.59833
Knobloch & Correll 1962	Polypodium	subpetiolatum	1	0	0	0	1	1	0	1	1	1	155.094225	265.343465	38.3282675	586.443769	43.3981763	1039.34347
K001044270	Polypodium	virginianum	1	0	0	0	1	1	0	1	1	1	78.0700701	252.644645	-90.3593594	329.228228	213.171171	1083.43243
Lellinger 1989	Polypodium	wiesbaueri	0	1	0	0	1	0	0	1	1	1	109.506173	162.395062	55.308642	986.592593	162.864198	2432.34568
eFlora of North America	Polystichum	acrostichoides	1	0	0	0	0	1	1	1	0	0	106.68969	288.795796	-77.0760761	337.807808	229.704705	1145.80781
eFlora of China	Polystichum	acutidens	1	0	0	0	1	1	1	1	0	0	164.467532	257.601732	46.3549784	863.385281	113.5671	1710.46753
EIG1868	Polystichum	ammifolium	1	0	0	0	1	1	1	1	0	0	155.341772	234.835443	77.2911392	699.139241	148.632911	1670.4557
eFlora of China	Polystichum	biaristatum	1	0	0	0	1	1	1	1	0	0	177.167728	249.350318	88.8110403	1449.82166	150.556263	2804.43312
eFlora of North America	Polystichum	braunii	1	0	0	0	1	1	1	1	0	0	54.5535536	173.712713	-46.0570571	536.510511	242.014014	1530.97798
eFlora of China	Polystichum	craspedosorum	1	0	0	0	1	1	1	1	0	0	126.698727	287.632249	-35.0947666	620.613861	174.189533	1611.31825
eFlora of China	Polystichum	deltodon	1	0	0	0	1	1	1	1	0	0	159.121387	249.040462	53.2369942	1058.36994	171.040462	2241.17919
K000351194	Polystichum	dracomontanum	1	0	0	0	1	1	1	1	0	0	135.702128	238.765957	-3.57446809	440.042553	47.8297872	927.829787
eFlora of China	Polystichum	duthiei	1	0	0	0	1	1	1	1	0	0	102.893617	190.510638	-13.2340426	1104.7234	203.021277	2552.29787
K001040107	Polystichum	eximium	1	0	0	0	1	1	1	1	0	0	180.69657	257.62533	88.0897098	1428.73879	188.939314	2786.8285
K001040193	Polystichum	fallax	1	0	0	0	1	1	1	1	0	0	139.905097	267.957821	8.5202109	358.383128	178.133568	1014.6362
eFlora of China	Polystichum	formosanum	1	0	0	0	1	1	1	1	0	0	191.688136	271.884746	100.901695	1244.89492	256.698305	2724.02034
K001040178	Polystichum	haleakalense	1	0	0	0	1	1	1	1	0	0	126.307692	193.538462	53.5384615	630.615385	184.923077	1605.69231
eFlora of China	Polystichum	hancockii	1	0	0	0	1	1	1	1	0	0	165.241618	244.506358	71.8080925	1353.31329	261.190751	2903.79191
eFlora of North America	Polystichum	imbricans	1	0	0	0	1	1	1	1	0	0	100.413793	275.103448	-23.5106732	541.510673	45.2052545	1077.27422
eFlora of China	Polystichum	lachenense	1	0	0	0	1	1	1	1	0	0	71.6851312	154.338192	-38.2040816	1203.96501	217.603499	2804.93294
K000200336	Polystichum	lehmannii	1	0	0	0	1	1	1	1	0	0	137.105882	208.776471	59.9294118	563.529412	135.176471	1365.69412
eFlora of North America	Polystichum	lemmonii	1	0	0	0	1	1	1	1	0	0	39.5449102	215.209581	-87.3652695	537.772455	97.3293413	1152.56287
eFlora of North America	Polystichum	lonchitis	1	0	0	0	1	1	1	1	0	0	29.2422422	161.012012	-81.1511512	411.461461	196.871872	1208.77277

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EIG2167	Polystichum	longifrons	1	0	0	0	1	1	1	1	0	0	1	138.961962	298.07007	-18.3063063	620.227227	186.173173	1705.36236
Crouch et al. 2011	Polystichum	luctuosum	1	0	0	0	1	1	1	1	0	0	1	145.576159	247.430464	17.7350993	402.357616	54.5827815	882.18543
eFlora of China	Polystichum	makinoi	1	0	0	0	1	1	1	1	0	0	1	139.97709	293.122566	-12.1764032	714.029782	189.731959	1855.34479
eFlora of North America	Polystichum	microchlamys	1	0	0	0	1	1	1	1	0	0	1	53.5643564	222.475248	-104.554455	757.524752	266.237624	1924.87129
K000954602	Polystichum	montevidense	1	0	0	0	1	1	1	1	0	0	1	151.688213	247.48289	41.8631179	476.387833	87.0342205	1033.62738
eFlora of North America	Polystichum	munitum	1	0	0	0	1	1	1	1	0	0	1	104.296296	235.556557	5.57657658	604.881882	90.8088088	1293.55556
K000512987	Polystichum	muricatum	1	0	0	0	1	1	1	1	0	0	1	165.734219	228.465116	102.146179	602.677741	131.840532	1504.21927
eFlora of China	Polystichum	neolobatum	1	0	0	0	1	1	1	1	0	0	1	145.189427	284.828194	-3.42731278	583.674009	85.0044053	1230.3348
eFlora of China	Polystichum	nepalense	1	0	0	0	1	1	1	1	0	0	1	126.424242	200.588745	26.5021645	1390.55411	182.47619	2923.60173
eFlora of China	Polystichum	obliquum	1	0	0	0	1	1	1	1	0	0	1	164.898551	255.594203	46.2028986	1127.71014	89.942029	1964.11594
eFlora of China	Polystichum	ovatopaleaceum	1	0	0	0	1	1	1	1	0	0	1	124.788789	283.672673	-34.037037	691.367367	200.127127	1855.16416
K000590417	Polystichum	platyphyllum	1	0	0	0	1	1	1	1	0	0	1	187.010101	259.171717	111.563636	743.107071	161.381818	1783.99596
eFlora of China	Polystichum	polyblepharum	1	0	0	0	1	1	1	1	0	0	1	142.269269	295.920921	-10.4414414	665.048048	205.944945	1823.67367
eFlora of China	Polystichum	prescottianum	1	0	0	0	1	1	1	1	0	0	1	77.4029851	174.925373	-43.4626866	1045.70149	181.552239	2343.04478
NSW Flora Online	Polystichum	proliferum	1	0	0	0	1	1	1	1	0	0	1	109.581582	227.80981	5.54354354	356.057057	204.908909	1132.09209
eFlora of China	Polystichum	pseudomakinoi	1	0	0	0	1	1	1	1	0	0	1	140.703704	296.574575	-10.6776777	698.987988	215.366366	1912.96997
Crouch et al. 2011	Polystichum	pungens	1	0	0	0	1	1	1	1	0	0	1	147.110048	251.37799	26.4976077	316.220096	74.8325359	772.009569
K001040009	Polystichum	setiferum	1	0	0	0	1	1	1	1	0	0	1	97.4374374	209.505506	7.55655656	288.058058	177.145145	911.808809
EIG2527	Polystichum	speciosissimum	1	0	0	0	1	1	1	1	0	0	1	128.852174	226.730435	24.5565217	729.321739	56.0695652	1339.7913
eFlora of China	Polystichum	squarrosus	1	0	0	0	1	1	1	1	0	0	1	148.526316	274.105263	-0.56140351	803.824561	39.4385965	1293.7193
eFlora of China	Polystichum	stenophyllum	1	0	0	0	1	1	1	1	0	0	1	112.060274	194.575342	6.22465753	1184.23014	207.413699	2714.26849
EIG2549	Polystichum	tagawanum	1	0	0	0	1	1	1	1	0	0	1	138.778779	290.06006	-11.9129129	693.415415	220.416416	1923.27027
ASU0003974	Polystichum	talamancanum	1	0	0	0	1	1	1	1	0	0	1	95.9327731	148.117647	42.8907563	1120.85714	126.487395	2592.55462
Crouch et al. 2011	Polystichum	transkeiense	1	0	0	0	1	1	1	1	0	0	1	168.160643	257.028112	52.4658635	400.305221	62.2811245	920.257028
eFlora of China	Polystichum	tripteron	1	0	0	0	1	1	1	1	0	0	1	133.039039	293.54955	-21.6046046	640.965966	215.761762	1720.58859
ASU0003975	Polystichum	turrialbae	1	0	0	0	1	1	1	1	0	0	1	144	221.2	66.0727273	912.472727	84.8	1941.63636
K001040180	Polystichum	vestitum	1	0	0	0	1	1	1	1	0	0	1	83.6526527	185.92993	-7.35235235	694.652653	508.488488	2426.16917
K001040065	Polystichum	wilsonii	1	0	0	0	1	1	1	1	0	0	1	90.6861925	194.209205	-31.8912134	787.974895	148.476987	1803.28033
eFlora of China	Polystichum	yunnanense	1	0	0	0	1	1	1	1	0	0	1	169.455782	277.034014	27.7006803	639.047619	45.1428571	1066.04082
Knapp 2011	Pronephrium	simplex	1	0	0	0	0	0	0	1	0	0	1	233.051095	310.49635	142.59854	1157.16788	229.708029	2394.0146
Lindsay & Middleton 2016	Prosaptia	alata	0	1	0	0	1	1	0	1	1	1	0	246.949309	295.502304	202.239631	1064.13825	596.75576	3274.47005
Lindsay & Middleton 2016	Prosaptia	contigua	0	1	0	0	1	1	0	1	1	1	0	192.367301	257.99776	122.837626	1218.19175	332.940914	2822.65775

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Lindsay & Middleton 2016 K000951588	Prosaptia Pseudocyclosorus	obliquata esquirolii	0 1	1 0	0 0	0 0	1 1	1 1	0 1	1 1	1 0	0 0	1 1	205.42115 174.90144	272.998145 277.875969	133.29128 63.0409745	1250.39703 1091.87375	312.679035 215.650055	2838.30798 2431.9247
Knapp 2011	Pseudophegopteris	aurita	1	0	0	0	1	1	0	1	0	0	1	154.915254	232.271186	69.4915254	1090.13559	353.084746	2761.42373
H1573164	Pseudophegopteris	cruciata	1	0	0	0	1	1	0	1	0	0	1	180.83871	255.612903	104.129032	786.903226	152.774194	1611.35484
Crouch et al. 2011 K000914002	Psilotum	nudum	1	0	0	0	1	1	0	1	1	1	1	210.645646	297.518519	112.823824	650.697698	173.996997	1552.18919
U0086578	Pteridium	aquilinum	1	0	0	0	1	1	1	1	0	0	0	77.7447447	195.191191	-20.5845846	357.552553	191.147147	1095.33233
US902597	Pteridium	arachnoideum	1	0	0	1	1	1	1	1	0	0	0	190.969147	268.816697	108.809437	772.77677	138.203267	1780.46098
K000913943	Pteridium	caudatum	1	0	0	1	1	1	1	1	0	0	0	223.528421	294.475789	150.913684	803.953684	148.143158	1880.45474
K001092781	Pteridium	esculentum	1	0	0	1	1	1	1	1	0	0	0	141.765766	251.044044	31.5575576	351.092092	186.627628	1076.92492
H1122018	Pteridoblechnum	neglectum	1	0	0	0	0	0	1	1	0	0	1	211.976812	294.023188	117.281159	1093.82609	123.710145	1924.38841
H1028464	Pteris	argyraea	1	0	0	0	1	1	1	1	0	0	0	237.466667	296.933333	186.133333	588.933333	431.066667	1974.26667
BR9975491	Pteris	boninensis	1	0	0	0	1	1	1	1	0	0	0	245.809524	312.380952	168	458.285714	212.095238	1414.95238
E00729665	Pteris	brasiliensis	1	0	0	0	1	1	1	1	0	0	0	222.307692	316.373626	126.703297	556.087912	211.934066	1526.76923
US01168773	Pteris	cadieri	1	0	0	0	0	1	1	1	0	0	0	206.846561	297.005291	112.486772	1152.57143	435.301587	2965.32275
Lellinger 1989	Pteris	comans	1	0	0	0	1	1	1	1	0	0	0	145.001698	240.471986	54.1018676	482.485569	218.702886	1395.57895
BR13206390	Pteris	cretica	1	0	0	0	1	1	1	1	0	0	0	147.8999	274.826827	17.039039	625.602603	139.751752	1496.24725
BR13075392	Pteris	decurrens	1	0	0	0	1	1	1	1	0	0	0	202.634921	283.015873	113.555556	722.412698	167.301587	1674.60317
eFlora of China	Pteris	deflexa	1	0	0	0	1	1	1	1	0	0	0	190.882883	278.389189	95.0774775	575.034234	198.482883	1501.71892
BR13075378	Pteris	deltodon	1	0	0	0	0	1	1	1	0	0	0	177.323308	275.338346	68.5112782	949.744361	223.112782	2137.84962
eFlora of China	Pteris	denticulata	1	0	0	0	1	1	1	1	0	0	0	213.675949	312.921519	108.481013	500.283544	202.931646	1406.83038
H1737948	Pteris	dispar	1	0	0	0	0	1	1	1	0	0	0	179.965966	300.513514	54.9499499	890.48048	221.643644	2141.41141
MO3624538	Pteris	ensiformis	1	0	0	0	0	1	1	1	0	0	0	220.161161	303.125125	128.578579	980.652653	190.024024	2082.1021
H1559625	Pteris	excelsa	1	0	0	0	1	1	1	1	0	0	0	154.803804	272.605606	32.7127127	842.953954	228.502503	2150.46446
US00055223	Pteris	fauriei	1	0	0	0	1	1	1	1	0	0	0	196.859675	293.373708	92.5110783	1118.57016	299.518464	2565.67208
eFlora of China	Pteris	formosana	1	0	0	0	1	1	1	1	0	0	0	191.90991	269.063063	103.405405	1181.11712	215.045045	2516.75676
E00729702	Pteris	grevilleana	1	0	0	0	1	1	1	1	0	0	0	216.828645	296.547315	128.337596	1167.20716	296.521739	2616.52685
BR13522131	Pteris	kidoi	1	0	0	0	0	1	1	1	0	0	0	187.73913	267.710145	98.2898551	1003.33333	287.014493	2440.2029
US00789623	Pteris	kuschuensis	1	0	0	0	1	1	1	1	0	0	0	159.213115	296.393443	18.4262295	1211.11475	283.114754	3091.44262
eFlora of China	Pteris	lechleri	1	0	0	0	1	1	1	1	0	0	0	207.573333	285.28	132.08	676.32	356.08	2035.57333
eFlora of China	Pteris	leptophylla	1	0	0	1	1	1	1	1	0	0	0	226.352941	304.235294	146.117647	682.352941	143.764706	1548.82353
eFlora of China	Pteris	multifida	1	0	0	0	0	1	1	1	0	0	0	160.795796	301.089089	20.5835836	710.807808	193.593594	1777.23524
eFlora of China	Pteris	nipponica	1	0	0	0	0	1	1	1	0	0	0	154.140044	292.258206	12.9452954	802.179431	221.689278	2139.01532

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E00729713	Pteris	oshimensis	1	0	0	0	1	1	1	1	0	0	0	163.831325	301.662651	23.7108434	957.73494	238.313253	2392.50602
K000200128	Pteris	propinqua	1	0	0	0	1	1	1	1	0	0	0	238.760784	303.466667	172.501961	806.486275	227.270588	2083.75686
eFlora of China	Pteris	ryukyuensis	1	0	0	0	0	1	1	1	0	0	0	211.854015	302.569343	119.255474	1006.59854	428.423358	2753.0073
eFlora of China	Pteris	semipinnata	1	0	0	0	0	1	1	1	0	0	0	202.950601	296.170895	102.192256	962.915888	236.664887	2234.04539
MO3628512	Pteris	splendens	1	0	0	0	1	1	1	1	0	0	0	192	271.012048	102.939759	710.891566	137.686747	1588.93976
E00732235	Pteris	tokioi	1	0	0	0	0	1	1	1	0	0	0	184.878661	261.464435	95.1631799	1561.23013	240.870293	3087.2887
MO100437799	Pteris	tremula	1	0	0	1	1	1	1	1	0	0	0	154.446446	261.087087	41.5325325	409.337337	166.168168	1121.64264
eFlora of China	Pteris	vittata	1	0	0	0	1	1	1	1	0	0	0	176.780781	286.581582	58.7677678	550.32032	107.213213	1217.37738
eFlora of China	Pteris	wallichiana	1	0	0	0	1	1	1	1	0	0	0	168.985737	261.213946	64.2599049	1171.35024	224.22504	2521.04913
MO18737	Pterozonium	brevifrons	1	0	0	0	1	1	0	1	1	0	0	191.83908	258.528736	131.034483	872.505747	389.770115	2469.10345
US00142084	Pterozonium	cyclosorum	1	0	0	0	1	1	0	1	1	0	0	177.619048	243.52381	114.857143	1287.04762	299.142857	3063.04762
YU022988	Pterozonium	reniforme	1	0	0	0	1	1	0	1	1	0	0	242.27451	308	181.960784	838.470588	413.45098	2455.33333
L3711602	Pyrrosia	angustata	0	1	0	0	0	0	0	1	1	1	1	258.201835	307.779817	213.816514	935.46789	532.642202	2943.41284
Hovenkamp 1986	Pyrrosia	christii	0	1	0	0	0	0	0	1	1	1	1	244.742857	289.085714	204.057143	864.171429	580.685714	2909.25714
L0052079	Pyrrosia	eleagnifolia	0	1	0	0	0	0	0	1	1	1	1	117.140097	214.7343	28.5346216	514.199678	333.301127	1668.26087
L0052086	Pyrrosia	foveolata	0	1	0	0	0	0	0	1	1	1	1	199.744	261.168	142.48	940.464	503.808	2940.448
L0170170	Pyrrosia	hastata	0	1	0	0	1	0	0	1	1	1	1	113.494253	275.011494	-54.137931	672.183908	181.793103	1741.33333
L3711604	Pyrrosia	lanceolata	0	1	0	0	0	0	0	1	1	1	1	250.318318	305.896897	196.768769	982.502503	361.075075	2576.23724
K001044162	Pyrrosia	linearifolia	0	1	0	0	1	0	0	1	1	1	1	138.115888	272.04486	0.42616822	857.420561	197.861682	2077.98879
L0170182	Pyrrosia	lingua	0	1	0	0	1	0	0	1	1	1	1	170.641642	288.905906	45.6416416	867.577578	189.359359	2019.7958
L0052093	Pyrrosia	longifolia	0	1	0	0	1	0	0	1	1	1	1	249.503893	309.944383	186.805339	1073.17464	262.298109	2369.93326
K001044169	Pyrrosia	polydactyla	0	1	0	0	1	0	0	1	1	1	1	147.968254	221.68254	56.1269841	1253.74603	206.920635	2708.31746
L3716906	Pyrrosia	porosa	0	1	0	0	1	0	0	1	1	1	1	166.217765	258.057307	42.6762178	780.097421	61.7994269	1440.49857
L0052109	Pyrrosia	rasamalae	0	1	0	0	1	0	0	1	1	1	1	215.636364	273.504132	158.578512	1133.98347	276.528926	2732.21488
K001044195	Pyrrosia	rupestris	0	1	0	0	0	0	0	1	1	1	1	158.366366	265.05005	41.7007007	470.026026	175.782783	1246.16116
K000539352	Pyrrosia	samarensis	0	1	0	0	0	0	0	1	1	1	1	268.133333	325.733333	214.266667	1307.73333	364.4	3288.53333
K001044199	Pyrrosia	serpens	0	1	0	0	1	0	0	1	1	1	1	110.071071	213.061061	16.8148148	809.29029	569.469469	2773.24625
K001044179	Pyrrosia	subfurfuracea	0	1	0	0	1	0	0	1	1	1	1	164.4	267.130435	33.9478261	796.991304	57.0434783	1428.45217
K000435776	Rumohra	adiantiformis	1	0	0	0	1	1	1	1	0	0	1	123.961962	222.854855	32.9409409	688.422422	413.603604	2210.18719
K000644022	Saccoloma	elegans	1	0	0	0	1	1	1	1	0	0	0	244.903226	308.780645	185.335484	1078.15161	248.235484	2632.39355
MO100207614	Saccoloma	inaequale	1	0	0	1	1	1	1	1	0	0	0	234.352352	296.414414	175.141141	1021.15115	402.935936	2897.17518
Large & Braggins 2004	Sadleria	cyatheoides	1	0	0	0	1	1	1	1	0	0	1	185.461538	249.019231	124.057692	673.557692	296.25	1938.46154



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Large & Braggins 2004	Sadleria	pallida	1	0	0	0	1	1	1	1	0	0	1	178.73913	244.652174	115.826087	788.782609	357.956522	2307.6087
Large & Braggins 2004	Sadleria	squarrosa	1	0	0	0	1	1	1	1	0	0	1	182.363636	250.909091	114.090909	827.818182	353.363636	2388.36364
MO19624	Salpichlaena	thalassica	1	0	0	0	1	1	1	1	0	0	1	204.343434	264.535354	146.868687	1128.69697	393.949495	3227.70707
eFlora of North America	Salvinia	minima	0	0	0	0	0	0	1	0	0	0	0	247.47	329.063333	165.516667	790.14	157.496667	1858.00333
Andrews 1990	Salvinia	molesta	0	0	0	0	0	0	1	0	0	0	0	202.149194	305.576613	83.5645161	530.921371	129.114919	1190.52016
Knapp 2011	Salvinia	natans	0	0	0	0	0	0	1	0	0	0	0	120.757895	269.889474	-22.0105263	379.605263	110.231579	896.526316
eFlora of China	Schizaea	dichotoma	1	0	0	0	0	1	0	0	1	1	1	226.35035	304.926927	133.148148	816.197197	151.345345	1673.71872
eFlora of China	Schizaea	digitata	1	0	0	0	0	1	0	0	1	1	1	261.774929	336.299145	170.22792	997.373219	75.3732194	1730.77778
BR6960247	Schizaea	laevigata	1	0	0	0	0	1	0	0	1	1	1	243.111111	316	166.888889	722.333333	259.777778	1871.88889
H1121037	Schizaea	pectinata	1	0	0	0	0	1	0	0	1	1	1	161.298182	259.763636	60.2545455	300.2	80.5018182	725.396364
B200085785	Schizaea	poepigiana	1	0	0	0	0	1	0	0	1	1	1	229.666667	297.864198	159.777778	781.45679	220.098765	1983.66667
eflora of North America	Schizaea	pusilla	1	0	0	0	0	1	0	0	1	1	1	85.3846154	236.653846	-60.5512821	435.153846	287.025641	1400.97436
US00135898	Schizaea	stricta	1	0	0	0	0	1	0	0	1	1	1	269.24	333.24	210.64	940.2	330.24	2452.04
K000571957	Selliguea	enervis	0	1	1	0	1	0	0	1	1	1	1	184.78022	242.450549	132.142857	947.923077	516.483516	2931.20879
eflora of China	Selliguea	feei	0	1	1	0	0	0	0	1	1	1	1	219.75	296.166667	132.416667	1072	279	2725.58333
K000539098	Selliguea	heterocarpa	0	1	1	0	0	0	0	1	1	1	1	247.888889	316.111111	180.444444	1058.44444	340.777778	2693.44444
K000548591	Selliguea	laciniata	0	1	0	0	1	0	0	1	1	1	1	225.888889	288.888889	166.888889	1054.88889	368.666667	2733.11111
K001044147	Selliguea	lateritia	0	1	1	0	1	0	0	1	1	1	1	249.742424	299.242424	205.106061	980.924242	507.833333	2964.21212
K001044149	Selliguea	plantaginea	0	1	0	0	1	0	0	1	1	1	1	139.824561	204.894737	79.5614035	1025.30702	552.526316	3169.5
K000570395	Selliguea	subsparsa	0	1	1	0	1	0	0	1	1	1	1	242.75	299	189.25	968.875	460.125	2910.875
eflora of China	Selliguea	triloba	0	1	0	0	0	0	0	1	1	1	1	241.6	322	154.2	932.2	345.4	2511
Smith et al. 2006	Serpocaulon	adnatum	0	1	0	0	1	0	0	1	1	1	1	180.137931	242.431034	117.172414	725.275862	230.568966	1919.63793
Smith et al. 2006	Serpocaulon	appressum	0	1	0	0	1	0	0	1	1	1	1	195.75	272.75	106.1875	674.5	125.1875	1509.625
Smith et al. 2006	Serpocaulon	attenuatum	0	1	0	0	1	0	0	1	1	1	1	255.446237	325.688172	195.473118	1213.83871	153.413978	2742.86022
Smith et al. 2006	Serpocaulon	caceresii	0	1	0	0	1	0	0	1	1	1	1	232.017937	294.941704	172.636771	948.869955	394.340807	2691.3991
Smith et al. 2006	Serpocaulon	catharinae	0	1	0	0	1	0	0	1	1	1	1	187.5625	271.041667	97.1458333	674.25	185.520833	1617.22917
Smith et al. 2006	Serpocaulon	crystalloneuron	0	1	0	0	1	0	0	1	1	1	1	143.559322	232.508475	35.7966102	576.576271	88.6440678	1210.33898
Smith et al. 2006	Serpocaulon	dasypleuron	0	1	0	0	1	0	0	1	1	1	1	220.259259	287.592593	154.123457	885.703704	415.82716	2579.14815
Lellinger 1989	Serpocaulon	dissimile	0	1	0	0	1	0	0	1	1	1	1	217.748663	283.882353	152.994652	969.550802	266.160428	2517.47059
Smith et al. 2006	Serpocaulon	falcaria	0	1	0	0	1	0	0	1	1	1	1	184.473684	260.076555	109.119617	834.736842	99.9856459	1865.8134
Lellinger 1989	Serpocaulon	fraxinifolium	0	1	0	0	1	0	0	1	1	1	1	199.355355	264.331331	135.362362	946.523524	222.820821	2394.86086
Smith et al. 2006	Serpocaulon	funkii	0	1	0	0	1	0	0	1	1	1	1	160.33871	222.887097	94.4919355	733.951613	240.274194	1983.62903

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Lellinger 1989	Serpocaulon	giganteum	1	0	0	0	1	0	0	1	1	1	1	227.449102	286.778443	170.772455	1083.8982	233.844311	2801.22754
Smith et al. 2006	Serpocaulon	gilliesii	0	1	0	0	1	0	0	1	1	1	1	166.7	282.65	16.05	432.55	32.4	770.1
Smith et al. 2006	Serpocaulon	intricatum	0	1	0	0	1	0	0	1	1	1	1	161.15942	244.811594	66.6376812	565.304348	125.768116	1307.24638
Smith et al. 2006	Serpocaulon	lasiopus	0	1	0	0	1	0	0	1	1	1	1	186.803571	280.910714	68.1964286	549.035714	64.1607143	1125.69643
Labiak & Prado 2008	Serpocaulon	latipes	1	0	0	0	1	0	0	1	1	1	1	189.549296	275.267606	90.056338	665.112676	109.549296	1414.09859
Smith et al. 2006	Serpocaulon	latissimum	0	1	0	0	1	0	0	1	1	1	1	201.411765	275.941176	128.117647	867.970588	410.029412	2482.88235
Smith et al. 2006	Serpocaulon	levigatum	0	1	1	0	1	0	0	1	1	1	1	179.851852	246.600529	110.859788	614.965608	202.346561	1647.49206
Lellinger 1989	Serpocaulon	loriceum	0	1	0	0	1	0	0	1	1	1	1	183.561333	251.825333	112.812	860.497333	205.025333	2166.84533
Lellinger 1989	Serpocaulon	loriciforme	0	1	0	0	1	0	0	1	1	1	1	228.621495	289.654206	174.271028	1225.38785	269.17757	3208.26168
Lellinger 1989	Serpocaulon	maritimum	0	1	0	0	1	0	0	1	1	1	1	235.614634	292.985366	184.541463	1264.68293	241.512195	3118.6
Smith et al. 2006	Serpocaulon	meniscifolium	0	0	0	0	1	0	0	1	1	1	1	241.714286	332.428571	145.428571	698.428571	145.857143	1611.57143
Smith et al. 2006	Serpocaulon	patentissimum	0	1	0	0	1	0	0	1	1	1	1	196.173913	258.521739	134.956522	966.782609	357.73913	2683.73913
Smith et al. 2006	Serpocaulon	ptilorhizon	0	1	0	0	1	0	0	1	1	1	1	193.193069	258.113861	131.480198	1127.26733	185.707921	2770.79208
Smith et al. 2006	Serpocaulon	richardii	0	1	0	0	1	0	0	1	1	1	1	227.212121	293.272727	159.515152	993.030303	411.454545	2736.60606
Lellinger 1989	Serpocaulon	sessilifolium	0	1	0	0	1	0	0	1	1	1	1	154.340426	227.191489	74.4397163	663.617021	195.304965	1685.30496
Lellinger 1989	Serpocaulon	triseriale	0	1	0	0	1	0	0	1	1	1	1	229.505506	295.922923	165.521522	962.562563	243.938939	2436.67367
Smith et al. 2006	Serpocaulon	vacillans	0	1	0	0	1	0	0	1	1	1	1	239.857143	343.571429	128.428571	673.285714	239.142857	1777.28571
Lellinger 1989	Serpocaulon	wagneri	0	1	0	0	1	0	0	1	1	1	1	246.543011	306.102151	194.102151	1166.4086	145.752688	2830.43548
Large & Braggins 2004	Sphaeropteris	brunei	1	0	0	0	1	1	1	1	1	0	0	188.282609	251.456522	129.086957	1194.5	272.086957	3129.19565
Large & Braggins 2004	Sphaeropteris	horrida	1	0	0	0	1	1	1	1	1	0	0	215.488372	292.069767	136.511628	897.093023	163.581395	2037.02326
K000397712	Sphaerostephanos	penniger	1	0	0	0	1	1	1	1	0	0	1	264	318.375	213.25	1067.375	402.5	2929.875
Flora of Australia Online	Steenisoblechnum	acuminatum	1	0	0	0	0	0	1	1	0	0	1	260.5	350.5	161.166667	1246.33333	107.333333	2068.5
Andrews 1990	Stenochlaena	palustris	1	0	0	0	0	0	1	0	0	0	1	266.707169	338.527339	178.213852	941.224787	98.6865128	1717.66829
Crouch et al. 2011	Stenochlaena	tenuifolia	1	0	0	0	0	0	1	0	0	0	1	219.152174	296.565217	124.478261	489.608696	98.5869565	1110.04348
Lellinger 1989	Sticherus	bifidus	1	0	0	0	1	1	0	1	1	0	1	213.345324	278.42446	148.28777	903.458034	286.601918	2358.07674
K000589345	Sticherus	cryptocarpus	1	0	0	0	1	1	0	1	1	0	1	117	233	31.1666667	1071.16667	340.333333	2582
Perrie & Brownsey 2015	Sticherus	cunninghamii	1	0	0	0	1	1	0	1	1	0	1	106.565574	206.467213	17.6885246	712.696721	472.172131	2354.07377
Perrie & Brownsey 2015	Sticherus	flabellatus	1	0	0	0	1	1	0	1	1	0	1	171.668669	269.545546	59.7567568	543.97998	183.673674	1375.44745
K000501386	Sticherus	palmatius	1	0	0	0	1	1	0	1	1	0	1	219.741935	292.580645	143.451613	656.774194	148.612903	1641.48387
Moran 1991	Stigmatopteris	lechleri	1	0	0	0	1	1	0	1	0	0	1	236.533333	301.633333	178.7	1086.76667	493.733333	3227.03333
Moran 1991	Stigmatopteris	longicaudata	1	0	0	0	1	1	0	1	0	0	1	216.955224	281.432836	158.895522	1167.85075	342.238806	3235.16418
BR6984557	Stromatopteris	moniliformis	1	0	0	0	1	1	0	1	1	1	1	226.625	297.125	153.5	797.375	314.375	2161.3125

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E00704922	Synammia	feuillei	0	1	0	0	1	0	0	1	1	1	1	105.142857	231	13.4285714	740.857143	228.285714	1758.14286
Holttum 1954	Syngamma	quinata	1	0	0	0	1	1	0	1	1	0	0	248.736842	301.894737	201.017544	974.280702	617.789474	3196.42105
Lindsay & Middleton 2016	Taenitis	blechnoides	1	0	0	0	1	0	0	1	1	0	0	253.728513	312.126876	192.698499	978.371078	331.133697	2457.2101
Lindsay & Middleton 2016	Taenitis	interrupta	1	0	0	0	1	0	0	1	1	0	0	266.225806	317	220.064516	1095.58065	553.354839	3215.45161
K000237417	Tapeinidium	amboynense	1	0	0	1	1	1	1	1	0	0	1	266.034483	311.517241	226.413793	1120.62069	460.241379	2899.48276
K000397641	Tapeinidium	longipinnulum	1	0	0	0	1	1	1	1	0	0	1	251.409091	301.663636	204.672727	932.581818	554.372727	2963.45455
K000360325	Tapeinidium	luzonicum	1	0	0	0	1	1	1	1	0	0	1	235.595628	283.092896	192.327869	993.103825	501.901639	2925.85246
K000360484	Tapeinidium	pinnatum	1	0	0	0	1	1	1	1	0	0	1	237.873684	298.014035	173.480702	1189.74386	314.435088	2702.85263
L3647079	Tectaria	decurrens	1	0	0	0	1	0	1	1	0	0	1	234.545232	299.481663	166.481663	1072.71394	359.03423	2656.9291
TAIF292145	Tectaria	fauriei	1	0	0	0	1	0	1	1	0	0	1	208.84	291.8	116.08	1061.5	205.16	2356.44
eFlora of North America	Tectaria	fimbriata	1	0	0	0	1	0	1	1	0	0	1	256.6	336.7	168.7	683.9	191.3	1764.5
US00443558	Tectaria	gaudichaudii	1	0	0	0	1	0	1	1	0	0	1	220.238095	287.285714	155.238095	622.238095	290.190476	1784.66667
U0102965	Tectaria	incisa	1	0	0	0	1	0	1	1	0	0	1	239.30839	305.382086	175.230159	925.412698	281.358277	2461.66327
L716954	Tectaria	phaeocaulis	1	0	0	0	1	0	1	1	0	0	1	201.176638	287.541311	108.156695	1243.09687	324.712251	2842.9886
L0052199	Tectaria	subtriphylia	1	0	0	0	1	0	1	1	0	0	1	211.017588	290.831658	119.198492	1267.68593	203.414573	2547.79146
U1011759	Tectaria	trifoliata	1	0	0	0	1	0	1	1	0	0	1	226.292818	297.491713	155.082873	1184.90608	223.171271	2636.75691
L0052209	Tectaria	variolosa	1	0	0	0	1	0	1	1	0	0	1	234.960784	319.27451	132.647059	1140.03922	87.3333333	2094.17647
E00417654	Tectaria	yunnanensis	1	0	0	0	1	0	1	1	0	0	1	197.922222	281.822222	103.666667	1325.96667	321.711111	2921.67778
Lellinger 1989	Terpsichore	alsopteris	0	1	0	0	1	1	0	1	1	1	0	203.9	269.433333	144.891667	1173.78333	235.316667	2931.875
K000590688	Terpsichore	anfractuosa	0	1	0	0	1	1	0	1	1	1	0	180.259259	250.962963	109.333333	717.814815	244.814815	1856.62963
Lellinger 1989	Terpsichore	cultrata	0	1	0	0	1	1	0	1	1	1	0	167.56129	227.2	108.651613	1090.09032	258.154839	2832.69677
Lellinger 1989	Terpsichore	lanigera	0	1	0	0	1	1	0	1	1	1	0	150.147727	211.880682	88.3181818	937.369318	257.528409	2487.94318
B200141906	Terpsichore	lehmanniana	0	1	0	0	1	1	0	1	1	1	0	221.982759	284.456897	164.603448	1193.30172	354.112069	3290.63793
K000575419	Terpsichore	longisetosa	0	1	0	0	1	1	0	1	1	1	0	125.270833	186.0625	58.6875	1012.39583	163.75	2481.52083
K000575562	Terpsichore	senilis	0	1	0	0	1	1	0	1	1	1	0	145.319767	205.453488	81.0232558	976.44186	178.656977	2415.84884
K000590669	Terpsichore	subscabra	0	1	0	0	1	1	0	1	1	1	0	112.25	171.6875	47.6875	923.5625	167.75	2296.3125
Lellinger 1989	Terpsichore	subtilis	0	1	0	0	1	1	0	1	1	1	0	180.764706	241.970588	121.029412	966.470588	252.705882	2638.23529
K000633636	Thelypteris	abrupta	1	0	0	0	1	1	1	1	0	0	1	252.578947	318.565789	194.947368	960.276316	244.934211	2390.47368
eFlora of China	Thelypteris	angulariloba	1	0	0	0	1	1	1	1	0	0	1	209.155172	302.12069	114	1150.2931	491.62069	3116.34483
B200056959	Thelypteris	gemmulifera	1	0	0	0	1	1	1	1	0	0	1	255.972973	317.905405	201.567568	921.540541	231.824324	2360.37838
US00134938	Thelypteris	glanduligera	1	0	0	0	1	1	1	1	0	0	1	153.481884	298.007246	8.52898551	716.057971	215.59058	1946.27536
US00134929	Thelypteris	globulifera	1	0	0	0	1	1	1	1	0	0	1	207.666667	272.75	145.041667	788.333333	390.125	2350.45833
K000633476	Thelypteris	gracilis	1	0	0	0	1	1	1	1	0	0	1	231.692308	304.307692	155.538462	613.615385	144.230769	1596.38462
eFlora of North America	Thelypteris	interrupta	1	0	0	0	1	1	1	1	0	0	1	236.784946	321.587814	150.333333	769.551971	189.247312	1907.42652

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MO100587626	Thelypteris	linkiana	1	0	0	0	1	1	0	1	0	0	1	195.15	264.5	127.083333	812.608333	256.625	2111.58333
US00066683	Thelypteris	meniscioides	1	0	0	0	1	1	1	1	0	0	1	257.277778	346.888889	168.777778	1064.77778	173.222222	2263.83333
eFlora of North America	Thelypteris	noveboracensis	1	0	0	0	1	1	1	1	0	0	1	89.7362924	274.668407	-95.4360313	332.475196	244.456919	1157.09661
MO1821790	Thelypteris	oligocarpa	1	0	0	0	1	1	1	1	0	0	1	197.926407	267.701299	126.212121	744.757576	161.285714	1818.329
K000951443	Thelypteris	omeiensis	1	0	0	0	1	1	1	1	0	0	1	161.5	242	58.1666667	2224.5	178.166667	4199.16667
US01169128	Thelypteris	opulenta	1	0	0	0	1	1	1	1	0	0	1	248.647727	310.435606	188.465909	968.132576	364.189394	2679.39773
eFlora of North America	Thelypteris	ovata	1	0	0	0	1	1	1	1	0	0	1	197.134615	323.173077	57.75	460.365385	131.826923	1123.21154
eFlora of China	Thelypteris	palustris	1	0	0	0	1	1	1	1	0	0	1	85.1931932	210.53954	-19.0890891	239.24024	147.483483	789.92993
MO100527400	Thelypteris	poiteana	1	0	0	0	1	1	1	1	0	0	1	244.642857	308.75	183.919643	918.205357	191.008929	2243.74107
eFlora of North America	Thelypteris	quelpaertensis	1	0	0	0	1	1	1	1	0	0	1	76.6161137	230.137441	-56.985782	562.853081	254.554502	1573.69194
eFlora of North America	Thelypteris	reticulata	1	0	0	0	1	1	1	1	0	0	1	235.128713	301.336634	163.287129	763.108911	257.009901	2096.06931
K000633595	Thelypteris	seemannii	1	0	0	0	1	1	0	1	0	0	1	238.714286	302.285714	179.428571	1207.14286	429.857143	3367.28571
eFlora of China	Thelypteris	viridifrons	1	0	0	0	1	1	1	1	0	0	1	144.857616	301.321192	-11.2582781	611.062914	184.109272	1685.54967
Brownsey & Perrie 2015	Tmesipteris	elongata	0	1	0	0	1	1	0	1	1	1	1	108.375	209.071429	15.9029018	826.073661	593.123884	2860.81696
Flora of Australia Online	Tmesipteris	obliqua	0	1	0	0	1	1	0	1	1	1	1	118.384449	222.019438	31.4060475	407.911447	208.898488	1254.71706
Brownsey & Perrie 2015	Tmesipteris	tannensis	0	1	0	0	1	1	0	1	1	1	1	105.117117	208.473473	9.13913914	966.615616	715.155155	3403.91291
Large & Braggins 2004	Todea	barbara	1	0	0	0	1	1	0	1	1	0	0	149.924925	254.136136	42.5705706	433.822823	180.024024	1205.7968
K000633229	Trachypteris	pinnata	1	0	0	0	0	0	0	0	0	0	0	234.1875	325.3125	133.125	430	84.25	953.1875
Lindsay & Middleton 2016	Tricholepidium	normale	0	1	0	0	1	0	0	1	1	1	1	190.952381	275.095238	85.4126984	1082.06349	124.555556	2123.77778
K000589433	Trichomanes	alatum	1	0	0	0	1	1	1	1	1	1	0	221.971429	287.571429	152.428571	727.314286	246.142857	2001.2
Lellinger 1989	Trichomanes	ankersii	0	0	0	0	1	1	1	1	1	1	0	250.090643	309.488304	196.400585	1194.96199	442.593567	3374.52924
K000589473	Trichomanes	arbuscula	1	0	0	0	1	1	1	1	1	1	0	256.390805	316.37931	205.643678	1054.34483	330.908046	2816.16092
K000375462	Trichomanes	atrovirens	1	0	0	0	1	1	1	1	1	1	0	255.1875	305.025	209.5625	917.725	486.4375	2819.625
Lellinger 1989	Trichomanes	crinitum	1	0	0	0	1	1	1	1	1	1	0	203.233333	266.016667	144.4	1101.83333	352.75	2973.16667
Lellinger 1989	Trichomanes	crispum	1	0	0	0	1	1	1	1	1	1	0	228.966216	293.29955	169.558559	1043.10811	267.905405	2724.98649
Lellinger 1989	Trichomanes	diversifrons	1	0	0	0	0	1	1	1	1	1	0	250.26	313.738	193.562	1240.986	339.574	3260.116
B200082869	Trichomanes	egleri	1	0	0	0	1	1	1	1	1	1	0	235.909091	303.818182	172.727273	1146.72727	302.090909	2786.09091
Lellinger 1989	Trichomanes	elegans	1	0	0	1	1	1	1	1	1	1	0	242.66129	302.383513	187.526882	1129.33154	427.405018	3207.57348
BR5913305	Trichomanes	flavofuscum	1	0	0	1	1	1	1	1	1	1	0	225.636364	298.909091	151.090909	758.909091	276.727273	1951.72727
Lellinger 1989	Trichomanes	galeottii	1	0	0	0	1	1	1	1	1	1	0	241.0875	306.78125	180.56875	1227.44375	245.825	3095.30625
B200104661	Trichomanes	holopterum	1	0	0	0	1	1	1	1	1	1	0	241.68	313.92	165.36	607.96	232.4	1691.72
Lellinger 1989	Trichomanes	hostmannianum	1	0	0	0	1	1	1	1	1	1	0	261.65873	325.507937	202.02381	1083.19841	388.412698	2936.94444
Lellinger 1989	Trichomanes	lucens	1	1	0	0	1	1	1	1	1	1	0	153.734568	217.506173	88.5185185	832.037037	240.604938	2187.96296

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Lellinger 1989	Trichomanes	osmundoides	1	0	0	0	0	1	1	1	1	1	0	247.590551	313.968504	184.779528	1224.66929	277.519685	3089.06299
ASU0006826	Trichomanes	pilosum	1	0	0	0	1	1	1	1	1	1	0	217.635294	301.282353	128.694118	714.917647	169.6	1718.75294
Lellinger 1989	Trichomanes	pinnatum	1	0	0	0	1	1	1	1	1	1	0	252.854167	317.082237	193.679825	1110.66118	288.596491	2856.95504
Lellinger 1989	Trichomanes	polypodioides	0	1	0	0	1	1	1	1	1	1	0	219.573034	284.726592	154.17603	998.209738	296.573034	2633.49813
K000589545	Trichomanes	roraimense	1	0	0	0	1	1	1	1	1	1	0	186.4	248.342857	126	1084.91429	273.8	2619.91429
K000589457	Trichomanes	scandens	0	0	0	1	1	1	1	1	1	1	0	223.748387	293.703226	149.425806	615.522581	198.580645	1665.04516
US00820525	Triplophyllum	funestum	1	0	0	0	1	0	1	1	0	0	1	254.307494	317.762274	201.395349	1057.74935	286.540052	2717.06718
Lindsay & Middleton 2016	Vandenboschia	auriculata	0	0	0	0	1	1	1	1	1	1	0	185.519164	265.456446	91.4320557	1347.9547	235.644599	2754.73171
Lindsay & Middleton 2016	Vandenboschia	maxima	0	0	0	1	1	1	1	1	1	1	0	222.078652	295.11236	143.707865	1270.1573	356.359551	2890.24719
Lellinger 1989	Vandenboschia	radicans	0	0	0	0	1	1	1	1	1	1	0	195.33429	268.030129	123.27977	966.94835	186.804878	2309.04448
Lellinger 1989	Vandenboschia	rupestris	0	0	0	0	1	1	1	1	1	1	0	222.166667	306	135.5	684	184.916667	1632.66667
Lellinger 1989	Vittaria	dimorpha	0	1	0	0	1	0	0	1	1	1	0	191.65625	258.21875	128.9375	1281.8125	301.65625	3341.90625
Lindsay & Middleton 2016	Vittaria	ensiformis	0	1	0	0	1	0	0	1	1	1	0	233.355615	299.491979	160.336898	954.489474	209.852632	2068.14211
Lellinger 1989	Vittaria	gardneriana	0	1	0	0	1	0	0	1	1	1	0	175.573529	237.588235	113.794118	896.235294	191.132353	2209.91176
Lellinger 1989	Vittaria	graminifolia	0	1	0	0	1	0	0	1	1	1	0	172.717073	237.439024	108.173171	1054.60244	186.195122	2568.03171
Crouch et al. 2011	Vittaria	isoetifolia	0	1	0	0	1	0	0	1	1	1	0	181.883929	262.410714	86.3928571	505.991071	93.5267857	1116.88393
Lellinger 1989	Vittaria	lineata	0	1	0	0	1	0	0	1	1	1	0	237.338415	306.664634	171.079268	998.945122	272.365854	2596.04573
Lellinger 1989	Vittaria	minima	0	1	0	0	1	0	0	1	1	1	0	218.466667	288.866667	154.133333	1382.33333	293.2	3550.8
Lellinger 1989	Vittaria	remota	0	1	0	0	1	0	0	1	1	1	0	191.803738	253.065421	133.82243	957.28972	336.35514	2658.90654
Lellinger 1989	Vittaria	stipitata	0	1	0	0	1	0	0	1	1	1	0	214.153153	279.054054	154.36036	1206.21622	311.936937	3188.74775
Flora of Zimbabwe	Vittaria	volkensis	0	1	0	0	1	0	0	1	1	1	0	175.985294	260.661765	93.7205882	681.897059	118.191176	1581.89706
Knapp 2011	Vittaria	zosterifolia	0	1	0	0	1	0	0	1	1	1	0	210.858757	279.960452	136.971751	1099.65537	341.180791	2672.41808
K001089212	Woodsia	glabella	1	0	0	0	1	1	1	1	0	0	1	-22.3433433	160.323323	-187.697698	211.854855	99.5905906	606.437437
E00233858	Woodsia	ilvensis	1	0	0	0	1	1	1	1	0	0	1	37.8148148	175.039039	-78.6916917	368.322322	172.523524	1073.56857
E00417624	Woodsia	macrochaena	1	0	0	0	1	1	1	1	0	0	1	120.518519	288	-53.5740741	608.962963	173.685185	1617.07407
K001089158	Woodsia	obtusa	1	0	0	0	1	1	1	1	0	0	1	120.802993	310.855362	-73.3566085	335.204489	172.937656	1046.19701
K001089170	Woodsia	polystichoides	1	0	0	0	1	1	1	1	0	0	1	105.5898	251.496674	-41.6940133	763.552106	221.667406	1970.051
MO3569091	Woodwardia	areolata	1	0	0	0	1	0	1	1	0	0	1	136.569966	299.870307	-29.4880546	370.979522	263.389078	1266.96587
L0052401	Woodwardia	auriculata	1	0	0	0	1	0	1	1	0	0	1	204.6875	261.3125	149.0625	908.8125	418.125	2663.9375
K001092783	Woodwardia	fimbriata	1	0	0	0	1	0	1	1	0	0	1	131.711172	275.583106	20.3242507	435.160763	26.9700272	843.490463
L0175178	Woodwardia	japonica	1	0	0	0	1	0	1	1	0	0	1	186.461682	298.947664	63.0990654	1165.82617	158.373832	2242.91589
E00280161	Woodwardia	orientalis	1	0	0	0	1	0	1	1	0	0	1	164.159363	294.47012	31.2390438	821.788845	245.912351	2137.32072

## Sheet1

L0175186	Woodwardia	prolifera	1	0	0	0	1	0	1	1	0	0	1	176.076336	308.748092	35.5343511	817.259542	205.977099	2006.30534
K001109129	Woodwardia	radicans	1	0	0	0	1	0	1	1	0	0	1	128.887931	241.407328	40.4892241	369.926724	156.693966	1044.61207
MO3624626	Woodwardia	spinulosa	1	0	0	0	1	0	1	1	0	0	1	176.804878	281.878049	68.9268293	716.634146	46	1256.95122
Knapp 2011	Woodwardia	unigemmata	1	0	0	0	1	0	1	1	0	0	1	146.568421	228.294737	42.7421053	1108.12105	198.978947	2427.74211
eFlora of North America	Woodwardia	virginica	1	0	0	0	1	0	1	1	0	0	1	116.470588	289.683258	-58.561086	355.221719	249.307692	1203.37557