

Online Supplementary data – Miralles et al. An endless harvest: integrative revision of the *Gephyromantis boulengeri* and *G. blanci* complexes reveals six new species of mantellid frogs from Madagascar. – *Salamandra* 59: 1–41

Supplementary document 1. List of samples and specimens included in the molecular analyses with their respective localities, voucher field numbers, institutional catalogue number (when available) and GenBank accession numbers. Newly generated sequences are in bold. Some sequences previously published in GenBank, which were too short or of poor quality, have been replicated for the present study, and are indicated in italics. This dataset also includes nucleic sequences generated by previous studies (VENCES et al. 2005, VIEITES et al. 2009, STRAUß et al. 2010, WOLLENBERG et al. 2012, RIEMANN et al. 2015, BELLUARDO et al. 2021, KAMBAYASHI et al. 2022).

organism	Locality	voucher	sample	16S3	Rag1
<i>G. blanci</i>	Andringitra	ZSM 2467/2007	ZCMV 5282		JN936075
	Andringitra	ZSM 2468/2007	ZCMV 5283	OQ198840	OQ190242
	Andringitra	ZSM 2469/2007	ZCMV 5285		OQ190243
	Andringitra	ZSM 2470/2007	ZCMV 5290	OQ198838	OQ190244
	Andringitra	ZSM 2471/2007	ZCMV 5295	OQ198839	OQ190245
	Andringitra	ZSM 973/2003	FGMV 2002.2178	OQ198837	
	Andringitra		FGMV 2002_2165	AY848324	
	Andringitra		ZCMV 5281		JN936076
	Andringitra NP, Imitso		ACZCV 643	MZ285242	
	Andringitra NP, Imitso		ACZCV 644	MZ285243	
	Andringitra NP, Imitso		ACZCV 659	MZ285244	
	Andringitra NP, Imitso		ACZCV 677	MZ285245	
	Andringitra NP, Imitso		ACZCV 679	MZ285246	
	Andringitra NP, Imitso		ACZCV 680	MZ285247	
	Haute Matsiatra, Namoly		ACZCV 824	MZ285248	
	Pic d'Ivohibe Special Reserve, Camp 3	ZSM 823/2014	ZCMV 14756	OQ198836	OQ190241
<i>G. boulengeri</i>	Ankanin'ny Nofy	ZSM 652/2009	ZCMV 8905	OQ198846	
	Betampona	MRSN A6264	FAZC 13617	HM364608	
	Betampona	MRSN A6269	FAZC 13468	HM364606	
	Betampona	MRSN A6345	FAZC 13841	HM364611	
	Betampona	MRSN A6601	FAZC 13926	HM364613	
	Betampona		FAZC 13541	HM364607	
	Betampona		FAZC 13822	HM364609	
	Betampona		FAZC 13828	HM364610	
	Betampona		FAZC 13850	HM364612	
	Betampona		DLR 623 / ACZC 7749	OQ198850	
	Betampona		DLR 635 / ACZC 7753	OQ198847	
	Betampona: Piste Sabefofoza		Bet_225	OQ198851	
	Betampona: Piste Sabefofoza		Bet_228	OQ198852	
	Betampona: Piste Sabefofoza		Bet_233	OQ198853	
	Betampona: Piste Sabefofoza		Bet_239	OQ198854	
	Betampona: Rendryrendry: Piste Principale		Bet_046	OQ198841	
	Betampona: Rendryrendry: Piste Principale		R_BT0338 / ACZC5738	OQ198856	
	Betampona: Rendryrendry: Sabefofoza Loop		Bet_192	OQ198855	
	Ivoloina Park	MRSN A6862	FAZC14418 / ACZC3593	JX101730	
	Ivoloina Park	MRSN A6864	FAZC14419 / ACZC3594	JX101728	
	Ivoloina Park	MRSN A6867	FAZC14417 / ACZC3592	JX101727	
	Ivoloina Park		FAZC14420 / ACZC3595	JX101729	
	Ivoloina Park		TM129 / ACZC8461	OQ198848	
	Mahasoa	ZSM 1878/2008	ZCMV 8089	OQ198844	
	Mahasoa	ZSM 1879/2008	ZCMV 8820	OQ198845	OQ190247

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	Sahavontsira	MRSN A5578	FAZC13336 / ACZC10105	OQ198842	
	Sahavontsira	MRSN A5631	FAZC13413 / ACZC10116	OQ198849	
	Vohibola	ZSM 653/2009	ZCMV 8909	OQ198843	OQ190246
<i>G. cornucopia</i>	3 km up from Sampanandrano	ZSM 361/2016	ZCMV 14861	OQ198857	
	Andohahela		FGZC 2460	JN936170	
	Andohahela		FGZC 2461	JN936171	
	Andohahela, near camp	ZSM 182/2005	FGZC 2459	OQ198859	OQ190248
	Andohahela, near camp (Holotype)	ZSM 183/2005	FGZC 2462	OQ198858	OQ190252
	Andohahela, near camp	ZSM 184/2005	FGZC 2463	OQ198864	OQ190251
	Andohahela, near camp	ZSM 185/2005	FGZC 2464	OQ198860	OQ190250
	Andohahela, near camp	ZSM 186/2005	FGZC 2471	OQ198861	
	Andohahela, near camp	ZSM 187/2005	FGZC 2473	OQ198862	
	Pic d'Ivohibe Special Reserve, Marovitsika	ZSM 822/2014	ZCMV 14727	OQ198863	OQ190249
<i>G. decaryi</i>	Ranomafana		ZCMV 5201	JN936156	JN936067
	Ranomafana		ZCMV 5224	JN936157	
	Ranomafana		ZCMV 5228	JN936158	
	Ranomafana		ZCMV 5222	JN936159	
	Ranomafana		ZCMV 5202	JX570260	JN936069
	Ranomafana		ZCMV 5585	JX570261	JN936073
	Ranomafana		ZCMV 5600	JX570262	
	Ranomafana		ZCMV 5203	JX570263	JN936068
	Ranomafana		ZCMV 5589	JX570264	
	Ranomafana		ZCMV 5223		JN664478
	Ranomafana, Ambatolahy		ZCMV 8152		JN936072
	Ranomafana, Ambatolahy		ZCMV 8153		JN936071
	Ranomafana, Ambatolahy		ZCMV 8154		JN936070
<i>G. eiselti</i>	Ambavaniasy		ZSM uncataloged	FJ559165	
	Ambavaniasy		ZCMV 8005	OQ198865	
	Ambavaniasy		ZCMV 8113	OQ198866	JN936045
	Ambavaniasy 2		ZCMV 8145	OQ198867	
<i>G. enki</i>	Ambohitsara	ZSM 2475/2007	ZCMV 5363	OQ198868	OQ190253
	Ranomafana		ZCMV 5272	JN936168	
	Ranomafana		ZCMV 5336	JN936169	
	Ranomafana		ZCMV 5208		JN936083
	Ranomafana		ZCMV 5209		JN936084
	Ranomafana, Ambatolahy		ZCMV 5205		JN936082
	Ranomafana, Ranomafanakely		ZCMV 5316	JN936166	
	Vohiparara		ZCMV 5575	JN936165	
	Vohiparara		ZCMV 5241	JN936167	
<i>G. feomborona</i>	Ranomafana		ZCMV 5233	HQ188941 / JN936153	
	Ranomafana, Ranomafanakely	ZSM 2459/2007	ZCMV 5240	OQ198870	OQ190254
	Ranomafana, Ranomafanakely	ZSM 2553/2007	ZCMV 5299	OQ198869	OQ190255
	Ranomafana, Ranomafanakely		ZCMV 5240	FJ559181	
	Ranomafana, Ranomafanakely		ZCMV 5317		JN936074
	Ranomafana, Vohiparara (Holotype)	ZMV 20025	ZCMV 123	AY848304	
<i>G. hintelmannae</i>	Ambohitsara		ZCMV 5230	JN936150	
	Ambohitsara		ZCMV 5231	JN936151	
	Ambohitsara		ZCMV 5232	JN936152	
	Ambohitsara		ZCMV 5234	JN936154	
	Ambohitsara		ZCMV 5235	JN936155	
<i>G. kremenae</i>	Ambodivoahangy (holotype)	ZSM 301/2010	FGZC 4247	OQ198873	OQ190256
	Masoala		FAZC 7230	FJ559163	
	Masoala forest	MRSNA3646	ACZC4815 / ACZC4815	OQ198878	
	Masoala forest	MRSNA3648	ACZC4817 / ACZC4817	OQ198879	
	Masoala, "Eco-Lodge chez Arol"	ZSM 269/2016	FGZC 5306	OQ198872	
	Melivinany, Befanjana	ZSM 694/2009	ZCMV 11185	OQ198876	OQ190260

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	Melivinany, Befanjana	ZSM 695/2009	ZCMV 11189	OQ198877	OQ190261
	Nosy Mangabe	ZSM 5056/2005	ZCMV 887	OQ198874	OQ190259
	Nosy Mangabe	ZSM 5057/2005	ZCMV 2121	OQ198875	OQ190257
	Nosy Mangabe	ZSM 5058/2005	ZCMV 2131	OQ198871	OQ190258
	Unknown locality		16S11Md_boulengeri	AF215318	
<i>G. leucocephalus</i>	Andohahela		FGZC_106	AY848342	
	Andohahela		FGZC_107	AY848343	
	Andohahela		FGZC_108	AY848344	
	Andohahela		FGZC_111	AY848345	
	Andohahela		FGZC_112	AY848346	
	Andohahela		FGZC_113	AY848347	
	Andohahela		FGZC_123	AY848348	
	Manantantely	ZSM 135/2004	FGZC 249	OQ198881	
	Manombo		ZCMV 430	AY848327	
	Manombo		ZCMV 5440	FJ559170	JN936080
	Manombo		ZCMV 5457	JN936172	
	Manombo		ZCMV 5460	JN936173	
	Manombo			JN936174	
	Manombo		ZCMV 5434	JN936175	JN936081
	Nahampoana		FGMV 2002_A98	AY848349	
	Nahampoana		ZSM 160/2002	FJ559169	
	Sampanandrano	ZSM 359/2016	ZCMV 14837	OQ198882	
	Sampanandrano	ZSM 360/2016	ZCMV 14839	OQ198880	
	Ste. Luce			FJ559171	
<i>G. cf. leucocephalus</i>	Farafangana		ZCMV 5493	FJ559183	JN664484
<i>G. mafifeo</i>	between Ambinanindrano and Mahanoro	ZSM 506/2009	ZCMV 8990	OQ198883	OQ190262
	between Ambinanindrano and Mahanoro	ZSM 507/2009	ZCMV 8991	OQ198884	OQ190263
	between Ambinanindrano and Mahanoro	ZSM 508/2009	ZCMV 8992	OQ198885	OQ190264
	between Ambinanindrano and Mahanoro (Holotype)	ZSM 509/2009	ZCMV 8993	OQ198886	OQ190265
<i>G. mafy</i>	Mahasoa		ZCMV 8100	FJ559197	
<i>G. mitsinjo</i>	Anosibe An'Ala	ZSM 302/2010	FGZC 4437	OQ198918	OQ190266
	Anosibe An'Ala	ZSM 303/2010	FGZC 4438	OQ198919	OQ190267
	Tarzanville	ZSM 305/2010	FGZC 4460	OQ198920	OQ190269
<i>G. mitsinjo</i>	Ambatofotsy	ZSM 307/2010	FGZC 4626	OQ198906	OQ190285
	An'Ala	ZSM 1971/2006	ZCMV 2437	OQ198890	OQ190275
	An'Ala forest camp	ZSM 404/2006	ZCMV 1449	OQ198891	OQ190288
	An'Ala forest camp	ZSM 405/2006	ZCMV 1469	OQ198892	OQ190273
	An'Ala forest camp	ZSM 406/2006	ZCMV 2442	OQ198893	OQ190276
	Andasibe	ZSM 1826/2008	ZCMV 8004	OQ198894	OQ190277
	Andasibe	ZSM 1827/2008	ZCMV 8101	OQ198895	OQ190278
	Andasibe	ZSM 1828/2008	ZCMV 8105	OQ198896	OQ190287
	Andasibe	ZSM 1829/2008	ZCMV 8132	OQ198897	OQ190280
	Andasibe (Holotype)	ZSM 1830/2008	ZCMV 8138		
	Andasibe	ZSM 1831/2008	ZCMV 8140	OQ198926	OQ190281
	Andasibe	ZSM 5060/2005	ZCMV 2204	OQ198898	OQ190274
	Andasibe	ZSM 5061/2005	ZCMV 2206		
	Andasibe		81	AY848325	
	Andasibe		ZCMV 8139	JX570252	
	Andasibe		ZCMV 8140	JX570253	
	Andasibe		ZCMV 8101	JX570254	
	Andasibe		ZCMV 8105	JX570255	
	Andasibe		ZCMV 8138	JX570257	
	Andasibe, camp Prolemur		ZCMV 8115	JX570250	
	Andasibe, camp Prolemur		ZCMV 8117	JX570251	
	Andasibe, camp Prolemur		ZCMV 8774	JX570256	
	Andasibe, camp Prolemur		ZCMV 8116	JX570258	
	Andasibe, Station forestiere	ZSM 153/2006	FGZC 975	OQ198899	OQ190272
	Anivorano Est, Andrarihitra, Vohiposa	MRSN A6698	1807 / ACZC4193	OQ198923	
	Anivorano Est, Andrarihitra, Vohiposa	MRSN A6774	1806 / ACZC4191	OQ198924	

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	Anosibe An'Ala	ZSM 304/2010	FGZC 4441	OQ198888	OQ190268
	Besariaka S Moramanga	[ZSM 1833/2008]	ZCMV 8143	OQ198917	OQ190282
	Besariaka S Moramanga	ZSM 1832/2008	ZCMV 8142	OQ198889	OQ190286
	Camp Prolemur near Mantadia	ZSM 1846/2008	ZCMV 8115	OQ198900	OQ190279
	Camp Prolemur near Mantadia	ZSM 1847/2008	ZCMV 8116	OQ198901	OQ190289
	Camp Prolemur near Mantadia	ZSM 1871/2008	ZCMV 8760	OQ198887	OQ190283
	Camp Prolemur near Mantadia	ZSM 1872/2008	ZCMV 8761	OQ198902	OQ190284
	Maromizaha		FAZC 15479 / ACZC8566	OQ198907	
	Maromizaha		FAZC 15490 / ACZC8577	OQ198908	
	Maromizaha		FAZC 15515 / ACZC8602	OQ198909	
	Maromizaha		FAZC 15524 / ACZC8611	OQ198910	
	Maromizaha		FAZC 15526 / ACZC8613	OQ198911	
	Maromizaha		FAZC 15542 / ACZC8629	OQ198912	
	Maromizaha		FAZC 15551 / ACZC8638	OQ198913	
	Maromizaha		FAZC 15583 / ACZC8670	OQ198914	
	Masobe Forest		GA1039	OQ198925	
	Masobe Forest		GA1027	OQ198921	
	S Niagarakely	ZSM 306/2010	FGZC 4475	OQ198905	
	Torotorofotsy		ZCMV 8102	JX570248	
	Torotorofotsy		ZCMV 8103	JX570249	
	unknown		FGMV 3072	OQ198922	
	Vohimana, Pandanus-Wald, Crete	ZSM 159/2016	FGZC 4959	OQ198903	OQ190270
	Vohimana, Sentier Botanique	ZSM 160/2016	FGZC 5083	OQ198904	OQ190271
	Vohimana, Sentier Botanique	ZSM 161/2016	FGZC 5085	OQ198915	
	Vohimana, Sentier Botanique	ZSM 162/2016	FGZC 5082	OQ198916	
	Unknown locality		ZCRK 151	LC640602	
<i>G. runewsweeki</i>	Ranomafana, Maharira	MNCN 42085	ZCMV 261	AY848308	
<i>G. sergei</i>	Ambohitsara	ZSM 2473/2007	ZCMV 5237	OQ198943	OQ190294
	Ambohitsara	ZSM 2474/2007	ZCMV 5364	OQ198944	OQ190298
	Ambohitsara	ZSM 2483/2007	ZCMV 5876	OQ198945	OQ190308
	Ambohitsara	ZSM 2484/2007	ZCMV 5878	OQ198946	OQ190310
	Ambohitsara	ZSM 2485/2007	ZCMV 5880	OQ198954	
	Ambohitsara	ZSM 2486/2007	ZCMV 5884	OQ198947	OQ190301
	Ambohitsara	ZSM 2487/2007	ZCMV 5886	OQ198948	OQ190309
	Ambohitsara	ZSM 634/2003	FGMV 2002.0097	OQ198949	OQ190290
	Ambohitsara		ZCMV 5879	FJ559162	
	Ambohitsara		ZCMV 5877	JN936163	
	Ambohitsara		ZCMV 5878	JN936164	
	Ranomafana (Holotype)	ZSM 664/2003	FGMV 2002.0243	OQ198928	OQ190291
	Ranomafana		ZCMV_617	AY848305	
	Ranomafana		FGMV 2002.243	AY848326	
	Ranomafana	N/A	N/A	FJ559161	
	Ranomafana, Alahy 1		ZCMV 5216	JX570259	
	Ranomafana, Ambatolahy		ZCMV 553	AY848379	
	Ranomafana, Ambatolahy		ZCMV 5578	JN936160	
	Ranomafana, Ambatolahy		ZCMV 5579	JN936161	
	Ranomafana, Ambatolahy		ZCMV 5581	JN936162	
	Ranomafana, Ambatolahy I	ZSM 2477/2007	ZCMV 5578	OQ198929	OQ190299
	Ranomafana, Ambatolahy I	ZSM 2478/2007	ZCMV 5579	OQ198930	OQ190300
	Ranomafana, Ambatolahy I	ZSM 2479/2007	ZCMV 5349	OQ198931	OQ190296
	Ranomafana, Ambatolahy I	ZSM 2480/2007	ZCMV 5354	OQ198932	OQ190297
	Ranomafana, Ambatolahy II	ZSM 2481/2007	ZCMV 5588	OQ198933	OQ190307
	Ranomafana, Ambatolahy, Ambatolahy		JCR 1015	KT240416	
	Ranomafana, Ambatolahy, Ambatolahy		JCR 778	KT240654	

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	Ranomafana, Ambolo, Ambolo I		JCR 619	KT240655	
	Ranomafana, Ambolo, Ambolo I		JCR 634	KT240656	
	Ranomafana, Ampitavanana, Ataramanavana		JCR 427	KT240421	
	Ranomafana, Andalangina, Andalangina		JCR 667	KT240650	
	Ranomafana, Andalangina, Andalangina		JCR 673	KT240651	
	Ranomafana, Andalangina, Andalangina		JCR 685	KT240652	
	Ranomafana, Andalangina, Andalangina		JCR 1400	KT240658	
	Ranomafana, Andalangina, Andalangina		JCR 1418	KT240659	
	Ranomafana, Andalangina, Andalangina left		JCR 1170	KT240417	
	Ranomafana, Andalangina, Andalangina left		JCR 186	KT240418	
	Ranomafana, Andalangina, Andalangina left		JCR 1137	KT240419	
	Ranomafana, Andalangina, Andalangina left		JCR 1151	KT240422	
	Ranomafana, Andalangina, Andalangina left		JCR 1152	KT240423	
	Ranomafana, Beremby, Ankasaopasina		JCR 1188	KT240420	
	Ranomafana, Beremby, Sahalavakely		JCR 1209	KT240415	
	Ranomafana, Bevoahazo		T 0279	GU975154	
	Ranomafana, Imaloka	ZSM 1843/2008	ZCMV 8197	OQ198927	OQ190306
	Ranomafana, Imaloka	ZSM 1844/2008	ZCMV 11001	OQ198950	OQ190292
	Ranomafana, Imaloka	ZSM 1845/2008	ZCMV 11002	OQ198951	OQ190293
	Ranomafana, Ranomafana, Antenna		JCR 560	KT240653	
	Ranomafana, Ranomafana, Antenna		JCR 912	KT240657	
	Ranomafana, Station Thermale	ZSM 2482/2007	ZCMV 5336	OQ198934	OQ190311
	Ranomafana, Talatakely	ZSM 1834/2008	ZCMV 8165	OQ198935	JN936079
	Ranomafana, Talatakely	ZSM 1835/2008	ZCMV 8168	OQ198936	OQ190302
	Ranomafana, Talatakely	ZSM 1836/2008	ZCMV 8169	OQ198937	
	Ranomafana, Talatakely	ZSM 1837/2008	ZCMV 8191	OQ198938	OQ190304
	Ranomafana, Talatakely	ZSM 1838/2008	ZCMV 8192	OQ198939	OQ190305
	Ranomafana, Talatakely entrance	ZSM 1839/2008	ZCMV 8170	OQ198940	JN936077
	Ranomafana, Talatakely entrance	ZSM 1840/2008	ZCMV 8171	OQ198941	
	Ranomafana, Talatakely entrance	ZSM 1841/2008	ZCMV 8172	OQ198953	
	Ranomafana, Talatakely entrance	ZSM 1842/2008	ZCMV 8173	OQ198942	OQ190303
	Ranomafana, Talatakely, BF 200		JCR 549	KT240648	
	Ranomafana, Talatakely, BF 200		JCR 1803	KT240649	
	Ranomafana, Talatakely, Talatakely		JCR 3105	KT240999	
	road near Ifanadiana	ZSM 2476/2007	ZCMV 5279	OQ198952	OQ190295
<i>Gephyromantis</i> sp. Ca7 (=subset IX)	Manakara		ZCMV 5422	JN936142	
	Manakara		ZCMV 5423	JN936143	JN936066
	Manakara		ZCMV 5426	JN936144	
	Manakara		ZCMV 5424	JN936145	
	Manakara		ZCMV 5425	JN936146	
	Manakara		ZCMV 5483	JN936147	
	Manakara		ZCMV 5484	JN936148	
	Manakara		ZCMV 5485	JN936149	
<i>G. thelenae</i>	Andasibe		ZCMV 8134	OQ198955	
	Andasibe		ZCMV 8135	OQ198961	
	Andasibe		ZCMV 8136	OQ198956	
	Andasibe		ZCMV 8144	OQ198957	
	Andasibe, way to Mantadia		ZCMV 8003	OQ198962	
	Camp Prolemur		ZCMV 8147	OQ198958	
	Camp Prolemur		ZCMV 8148	OQ198959	
	Camp Prolemur		ZCMV 8793	OQ198960	
	Mantadia		FGMV 2001.1014	AY848331	
<i>G. verrucosus</i>	Manombo		ZCMV 5451	JN936138	JN936065
	Manombo		ZCMV 5441	JN936139	
	Manombo		ZCMV 5450	JN936140	JN936063
	Manombo		ZCMV 5459	JN936141	
	Manombo		ZCMV 5438		JN936064

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Supplementary document 2. Phenotypic variation among the studied species of *Gephyromantis*. All these specimens have been genotyped, measurement expressed in millimeters. Abbreviations: Nomenclatural status: holotype (HT) or paratype (PT). Sex: male (M) or female (F). Measurements: snout–vent length (SVL); maximum head width (HW); head length from tip of snout to posterior edge of snout opening (HL); horizontal tympanum diameter (TD); horizontal eye diameter (ED); distance between anterior edge of eye and nostril (END); distance between nostril and tip of snout (NSD); distance between both nostrils (NND); forelimb length, from limb insertion to tip of longest finger (FORL); hand length, to the tip of the longest finger (HAL); hind limb length, from the cloaca to the tip of the longest toe (HIL); foot length (FOL); foot length including tarsus (FOTL); and tibia length (TIBL).

	Catalogue and field numbers	Status	Sex	SVL	HW	HL	TD	ED	END	NSD	NND	FORL	HAL	HIL	FOTL	FOL	TIBL
<i>Gephyromantis boulengeri</i> complex																	
<i>G. mitsinjo</i> sp. n. (clade I)																	
Tarzanville	ZSM 306/2010 (FGZC 4460)		M	27.2	9.0	10.0	2.2	3.6	2.4	2.1	2.4	16.2	8.3	43.2	18.7	11.9	13.4
Anosibe An'Ala	ZSM 303/2010 (FGZC 4438)		M	28.5	9.5	10.0	2.4	4.0	2.5	1.8	2.6	15.1	7.9	43.3	19.0	12.7	13.2
–	ZSM 302/2010 (FGZC 4437)		M	28.1	9.5	10.7	2.4	3.6	3.0	1.9	2.7	16.4	8.3	43.0	19.0	11.7	13.5
<i>G. mitsinjo</i> sp. n. (clade II)																	
Andasibe	ZSM 1830/2008 (ZCMV 8138)	HT	M	25.8	9.4	10.3	2.1	3.4	2.7	2.0	2.7	16.7	8.3	43.6	19.3	12.6	13.7
–	ZSM 1827/2008 (ZCMV 8101)	PT	M	26.2	9.4	10.1	2.5	2.9	3.0	1.8	2.5	16.1	7.9	44.7	19.8	12.4	14.0
–	ZSM 1829/2008 (ZCMV 8132)	PT	M	27.2	10.0	10.2	2.3	4.0	3.0	1.9	2.6	16.4	7.7	45.9	20.2	12.9	14.3
–	ZSM 1831/2008 (ZCMV 8140)	PT	F	28.7	9.0	10.1	2.2	4.0	2.7	2.2	2.7	17.8	8.0	45.8	21.0	13.2	14.8
–	ZSM 1826/2008 (ZCMV 8004)	PT	M	21.9	7.1	8.3	1.7	3.0	2.2	1.6	2.4	14.5	7.1	39.0	16.4	10.4	12.0
Anosibe An'Ala	ZSM 304/2010 (FGZC 4441)	PT	M	26.9	9.6	10.4	2.5	3.1	2.8	1.9	2.6	16.2	7.9	44.8	19.3	12.1	14.2
Besariaka	ZSM 1832/2008 (ZCMV 8142)	PT	M	27.4	9.5	10.2	2.4	3.0	3.0	1.7	2.3	16.4	8.3	42.9	19.2	12.2	13.8
Vohimana	ZSM 161/2016 (FGZC 5085)	PT	M	24.8	9.2	9.4	2.2	3.2	2.4	2.0	2.3	14.7	8.4	40.7	18.3	11.6	12.7
–	ZSM 162/2016 (FGZC 5082)	PT	M	19.2	6.4	8.3	1.7	2.7	2.3	1.2	2.0	12.5	5.9	34.8	15.0	9.0	11.2
<i>sG. kremena</i> sp. n.																	
Ambodivoangy	ZSM 301/2010 (FGZC 4247)	HT	M	26.5	9.2	10.4	2.4	3.8	3.0	1.9	2.6	15.0	7.5	41.1	18.3	11.6	13.4
Masoala	ZSM 269/2016 (FGZC 5306)	PT	M	24.8	8.3	9.9	1.9	3.4	2.8	1.6	2.6	15.0	7.2	39.0	17.2	10.9	12.5
Nosy Mangabe	ZSM 5057/2005 (ZCMV 2121)	PT	M	28.5	10.0	11.5	2.6	3.5	3.1	2.1	2.9	19.0	8.6	51.4	22.0	13.7	15.9
–	ZSM 5056/2005 (ZCMV 887)	PT	M	26.7	9.2	11.0	2.6	2.9	3.1	2.0	2.7	18.6	8.8	47.5	20.3	12.5	15.4
–	ZSM 5058/2005 (ZCMV 2131)	PT	F	32.3	11.0	12.5	2.4	4.3	3.5	2.3	2.6	22.4	9.9	54.0	23.3	24.6	17.2
Befanjana	ZSM 695/2009 (ZCMV 11189)	PT	M	25.3	8.8	11.2	2.3	3.6	2.6	1.9	2.5	16.2	7.4	43.3	17.6	11.5	13.4

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–	ZSM 694/2009 (ZCMV 11185)	PT	M	26.1	9.3	10.4	2.3	3.7	2.9	2.0	2.3	17.2	8.9	42.6	19.4	12.2	13.7
<i>G. boulengeri</i>																	
Mahasoa	ZSM 1878/2008 (ZCMV 8089)		M	26.0	8.9	10.5	2.2	4.0	2.9	1.9	2.9	16.9	7.9	45.9	20.3	13.4	14.3
–	ZSM 1879/2008 (ZCMV 8820)		M	26.8	8.6	10.1	2.0	4.0	3.3	1.4	2.4	18.2	8.3	47.7	19.9	13.5	14.6
Ankanin'ny Nofy	ZSM 652/2009 (ZCMV 8905)		M	25.4	8.6	11.0	2.3	3.5	2.9	1.7	2.4	16.2	7.8	41.3	18.3	12.3	12.9
Vohibola	ZSM 653/2009 (ZCMV 8909)		M	24.3	8.0	10.0	2.0	3.9	2.6	2.2	2.2	14.4	6.7	39.8	17.3	11.4	12.5
<i>G. sergei</i> sp. n. (clade IV)																	
Ambohitsara	ZSM 2483/2007 (ZCMV 5876)		M	28.8	10.0	12.0	2.6	3.9	3.4	1.8	2.7	18.0	8.8	46.1	20.9	13.9	14.4
–	ZSM 2486/2007 (ZCMV 5884)		M	27.5	9.4	10.9	3.1	3.8	2.8	2.0	2.7	17.9	8.5	44.1	19.6	13.0	13.7
–	ZSM 2485/2007 (ZCMV 5880)		M	26.3	9.4	11.2	2.0	3.9	3.0	2.1	2.6	16.6	8.0	43.5	18.3	12.0	13.3
Ranomafana. Imaloka	ZSM 1843/2008 (ZCMV 8197)		M	26.7	9.2	10.0	2.2	3.7	2.9	2.2	2.6	16.4	8.0	43.7	18.8	12.0	13.9
–	ZSM 1844/2008 (ZCMV 11001)		M	26.9	9.5	10.3	2.7	3.7	2.8	1.8	2.6	15.9	8.2	45.5	20.0	12.9	14.3
<i>G. sergei</i> sp. n. (clade V)																	
Ranomafana	ZSM 2482/2007 (ZCMV 5336)	PT	M	25.9	8.8	9.7	2.5	3.7	2.7	2.0	2.5	14.7	7.8	43.2	19.7	10.7	13.0
–	ZSM 664/2003 (FGMV 2002.243)	HT	M	28.1	9.4	10.7	2.4	3.8	2.8	1.8	3.0	16.8	8.4	45.0	20.2	13.0	14.2
–	ZSM 2478/2007 (ZCMV 5579)	PT	M	26.6	8.6	9.9	2.4	3.2	3.0	1.9	2.4	16.8	7.7	43.6	19.9	12.4	14.2
–	ZSM 2477/2007 (ZCMV 5578)	PT	M	27.3	9.4	10.7	2.6	3.7	3.2	2.1	2.5	17.8	8.5	46.2	20.1	12.9	14.4
–	ZSM 1838/2008 (ZCMV 8192)	PT	M	28.4	10.0	11.5	2.7	4.0	3.1	2.0	2.6	17.7	8.3	47.3	21.2	13.9	15.1
–	ZSM 1835/2008 (ZCMV 8168)	PT	M	28.3	9.3	10.4	2.8	3.7	2.6	2.1	2.7	16.7	8.0	47.0	20.5	13.0	14.6
<i>G. mafifeo</i> sp. n.																	
Ambinanindrano-Mahanoro	ZSM 508/2009 (ZCMV 8992)	PT	M	24.4	8.3	10.0	2.5	3.4	3.0	1.7	2.6	16.4	6.6	40.7	16.0	11.0	12.8
–	ZSM 509/2009 (ZCMV 8993)	HT	M	26.2	8.4	10.0	2.5	3.5	3.3	1.6	2.6	15.1	7.7	40.1	17.2	11.0	13.1
–	ZSM 507/2009 (ZCMV 8991)	PT	M	24.3	7.5	9.3	2.2	3.5	2.3	2.0	2.1	15.3	6.9	41.3	17.6	11.4	13.0
–	ZSM 506/2009 (ZCMV 8990)	PT	M	24.2	8.0	8.9	2.2	3.3	2.4	2.0	2.3	14.9	7.5	39.3	17.4	11.2	12.5
<i>blanci</i> complex																	
<i>G. runewsweeki</i>																	
Maharira	ZSM 49/2005 (ZCMV 263)		M	23.8	7.4	8.7	1.4	2.9	2.1	1.7	2.4	16.5	7.4	44.1	20.3	12.1	13.6
Maharira	MNCN 42085 (ZCMV 261)		M	22.5	6.9	8.5	1.4	2.7	2.0	1.5	2	13.8	6.7	41.0	18.4	11.8	12.7
<i>G. enki</i>																	

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Sakaroa	UADBA uncat. (ZCMV 8160)		M	20.1	6.6	8.4	1.6	3.3	2.1	1.4	2.0	13.2	.5.6	36.4	16.1	9.7	11.7
Talatakely 2	UADBA uncat. (ZCMV 8199)		M	19.8	6.0	8.2	1.5	3.0	2.3	1.5	2.0	11.3	5.7	34.6	15.1	9.3	11.6
Ranomafanakely	UADBA uncat. (ZCMV 5323)		M	18.7	6.7	7.7	1.4	2.4	1.9	1.2	2.0	11.7	5.1	33.3	14.7	9.0	11.6
Ranomafanakely	UADBA uncat. (ZCMV 5318)		M	20.8	7.6	9.5	1.4	3.0	2.5	1.2	2.0	11.4	6.1	36.4	16.8	10.2	12.4
Ranomafanakely	UADBA uncat. (ZCMV 5317)		M	20.0	6.9	8.1	1.0	2.4	2.2	1.0	2.0	11.4	6.0	37.0	16.8	10.0	12.4
Valbio Campsite	UADBA uncat. (ZCMV 5327)		M	20.7	6.9	9.4	1.3	2.8	2.3	1.0	2.0	13.0	6.8	32.4	17.0	10.0	12.8
Kidonavo	UADBA uncat. (ZCMV 5345)		M	19.8	7.0	9.8	1.3	2.6	2.4	1.4	1.8	12.4	5.7	32.3	15.8	10.0	11.4
<i>G. blanci</i>																	
Ivohibe	ZSM 823/2014 (ZCMV 14756)		F	24.7	7.9	9.6	2.0	3.2	2.5	1.7	2.5	14.6	7.7	43.5	19.7	12.5	14.3
Andringitra	ZSM 973/2002 (FGMV 2002.2178)		M	22.4	8.0	9.1	2.0	3.1	2.9	1.5	2.7	15.0	7.1	43.8	19.0	11.8	13.4
–	ZSM 2468/2007 (ZCMV 5283)		M	23.4	7.6	10.0	2.0	3.0	2.4	1.5	2.5	15.2	7.2	42.1	18.5	12.0	13.1
–	ZSM 2471/2007 (ZCMV 5295)		M	23.3	7.7	9.2	1.9	3.3	2.6	1.4	2.7	15.1	7.2	40.8	18.3	11.6	12.6
–	ZSM 2470/2007 (ZCMV 5290)		F	25.0	7.7	8.8	2.2	3.0	2.8	1.5	2.4	15.0	7.7	42.4	19.1	12.0	13.2
–	ZSM 2469/2007 (ZCMV 5285)		F	22.6	7.2	9.0	2.0	3.0	2.2	1.6	2.3	15.3	7.2	43.3	18.9	12.1	13.7
<i>G. feomborona sp. nov</i>																	
Ranomafanakely	ZSM 2553/2007 (ZCMV 5299)	PT	M	21.6	6.5	8.5	1.7	2.5	2.0	1.5	2.1	13.4	6.5	36.8	16.4	10.2	12.0
–	ZSM 2459/2007 (ZCMV 5240)	PT	F	22.2	7.1	9.2	1.9	3.0	2.2	2.0	2.1	14.2	6.9	38.3	17.0	10.5	11.9
–	ZMA 20025 (ZCMV 123)	HT	M	21.2	6.5	8.1	1.9	3.3	2.3	1.9	1.9	13.7	6.5	37.2	16.8	10.3	11.6
<i>G. cornucopia sp. n.</i>																	
Andohahela	ZSM 183/2005 (FGZC 2462)	HT	M	25.9	8.4	10.1	2.0	3.6	2.4	2.0	2.9	14.8	8.0	49.2	22.0	14.8	15.5
–	ZSM 184/2005 (FGZC 2463)	PT	F	26.8	8.2	9.8	2.0	3.5	2.8	1.8	2.7	16.0	7.9	46.3	22.1	14.4	15.0
–	ZSM 185/2005 (FGZC 2464)	PT	F	26.8	8.0	9.9	2.0	3.1	2.8	1.6	2.7	16.7	8.3	47.7	22.6	14.8	15.5
–	ZSM 186/2005 (FGZC 2471)	PT	F	27.5	8.5	10.3	2.2	3.4	2.7	1.7	2.8	16.3	7.7	50.5	22.1	14.8	15.8
–	ZSM 187/2005 (FGZC 2473)	PT	F	27.5	8.4	10.3	2.1	3.4	2.6	1.7	2.7	17.3	8.5	49.3	23.0	15.1	16.1
Ivohibe	ZSM 822/2014 (ZCMV 14727)	PT	M	26.5	8.4	10.1	2.1	3.6	2.4	1.8	2.4	16.0	7.6	46.5	20.5	13.3	14.5
<i>eiselti complex</i>																	

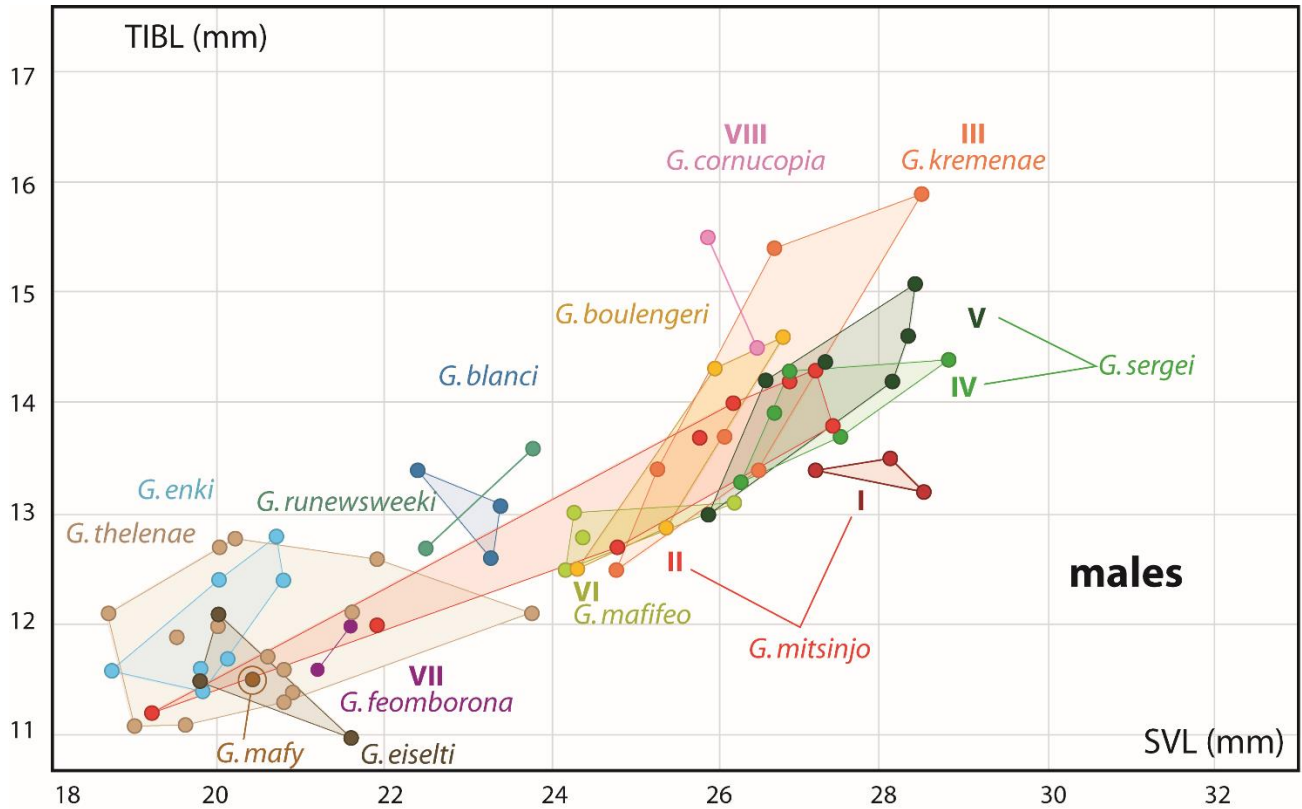
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<i>G. thelenae</i>																		
Andasibe	UADBA uncat. (ZCMV 8137)		M	20.6	6.7	8.1	1.3	2.6	2.3	1.6	2.0	12.9	6.0	34.9	15.8	9.8	11.7	
Andasibe	ZSM 1883/2008 (ZCMV 8135)		M	19.6	6.2	8.0	1.5	2.7	2.1	1.2	2.1	13.0	5.7	34.2	15.3	9.2	11.1	
Andasibe	UADBA uncat. (ZCMV 8114)		M	19.0	6.6	9.7	1.5	2.7	2.5	1.9	2.1	12.7	6.0	33.6	15.4	9.3	11.1	
Andasibe	ZSM 1881/2008 (ZCMV 8131)		M	20.0	6.3	7.8	1.3	2.6	2.0	1.4	2.0	13.1	6.3	36.5	16.0	9.5	12.7	
Andasibe	ZSM 1884/2008 (ZCMV 8136)		M	20.0	6.2	7.9	1.4	2.6	2.4	1.3	2.1	13.2	6.4	35.8	16.5	9.7	12.0	
Andasibe	ZSM 1882/2008 (ZCMV 8134)		M	19.5	6.9	8.3	1.4	3.2	2.4	1.7	2.5	12.8	6.4	35.7	15.7	9.6	11.9	
Andasibe	ZSM 1885/2008 (ZCMV 8144)		M	21.6	7.4	8.9	1.5	3.0	2.5	2.0	2.5	14.3	7.1	36.7	16.4	10.4	12.1	
Camp Prolemur	UADBA uncat. (ZCMV 8765)		M	20.9	6.5	8.1	1.2	2.7	2.2	1.4	2.0	12.0	6.2	32.9	15.3	10.3	11.4	
Camp Prolemur	ZSM 1887/2008 (ZCMV 8793)		M	21.9	6.4	8.1	1.4	3.1	2.3	1.6	2.1	14.6	6.3	34.3	15.7	8.1	12.6	
Camp Prolemur	ZSM 1888/2008 (ZCMV 8147)		M	20.8	7.5	8.4	1.4	2.8	2.6	1.3	2.2	13.6	6.2	35.4	15.8	9.6	11.3	
Camp Prolemur	ZSM 1886/2008(ZCMV 8148)		M	18.7	6.4	8.7	1.3	2.9	2.0	1.2	1.9	13.2	6.3	32.5	16.1	9.3	12.1	
Camp Prolemur	UADBA uncat. (ZCMV 8764)		M	23.8	7.1	8.5	1.3	3.5	1.7	1.3	2.0	13.3	6.1	37.0	16.3	9.7	12.1	
Camp Prolemur	UADBA uncat. (ZCMV 8149)		M	20.2	7.0	8.8	2.0	3.0	1.9	1.5	2.0	14.4	7.0	37.6	18.5	10.9	12.8	
Camp Prolemur	UADBA uncat. (ZCMV 8150)		M	20.8	6.8	8.8	1.3	3.0	2.0	1.1	2.0	13.0	6.2	36.4	15.5	9.7	11.6	
<i>G. mafy</i>																		
Mahasoa forest	ZSM 1889/2008 (ZCMV 8100)		M	20.4	6.4	7.7	1.4	2.9	2.0	1.3	2.1	12.7	6.2	35.1	15.7	9.4	11.5	
<i>G. eiselti</i>																		

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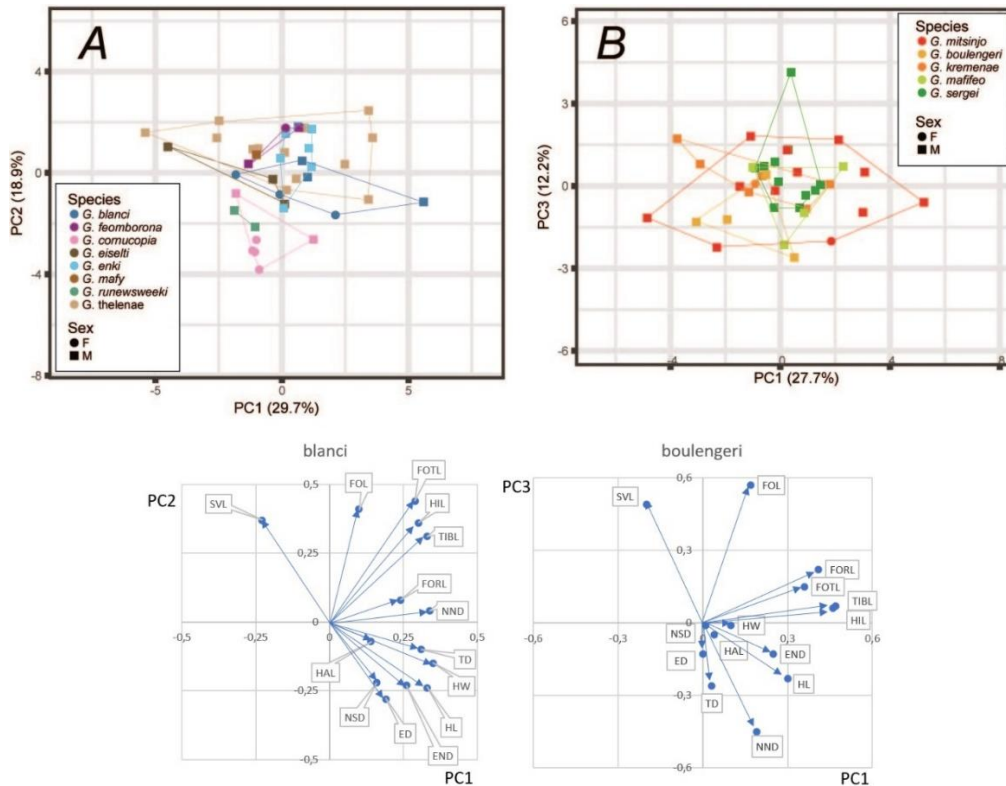
Ambavaniasy	ZSM 1856/2008 (ZCMV 8145)		M	19.8	6.3	7.8	1.0	3.1	1.6	1.5	2.0	11.7	6.8	35.8	16.7	9.8	11.5
Ambavaniasy	ZSM 1857/2008 (ZCMV 8146)		M	20.0	6.6	7.9	1.2	2.8	1.9	1.2	1.9	12.7	6.2	36.3	17.2	10.7	12.1
Ambavaniasy	ZSM 1855/2008 (ZCMV 8113)		M	21.6	5.8	7.4	1.1	2.7	2.3	1.5	1.9	11.7	6.0	35.7	16.0	9.2	11.0

Supplementary document 3. Bivariate plot of the snout–vent length and tibia length the *G. blanci*, *G. boulengeri* and *G. decaryi* species complexes (values in mm). Dataset restricted to male specimens, see Fig. 6 for a representation including both sexes.



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Supplementary document 4. Scatterplot of the Principal Component Analysis using the morphological variables (adults and subadults only, males and females not analyzed separately) for species (A) of the *G. blanci* species complex (PC1, PC2) and (B) of the *G. boulengeri* species complex (PC1, PC3). Component loading factors of the first five principal components are presented in the table below.



<i>G. blanci</i> complex						<i>G. boulengeri</i> complex					
	PC1	PC2	PC3	PC4	PC5		PC1	PC2	PC3	PC4	PC5
SVL	-0.23	0.37	-0.03	0.08	-0.39	SVL	-0.20	0.49	-0.28	0.08	-0.06
HW	0.35	-0.15	0.12	0.43	-0.03	HW	0.10	-0.01	-0.38	-0.09	-0.12
HL	0.33	-0.24	0.03	0.38	0.05	HL	0.30	-0.23	-0.10	0.21	-0.43
TD	0.31	-0.10	-0.11	-0.33	0.16	TD	0.03	-0.26	-0.53	-0.24	0.02
ED	0.19	-0.28	-0.39	-0.06	-0.02	ED	-0.00	-0.13	0.44	0.05	-0.57
END	0.26	-0.23	0.29	0.14	-0.43	END	0.25	-0.13	-0.18	0.56	-0.06
NSD	0.16	-0.22	-0.13	-0.57	-0.32	NSD	0.01	-0.01	0.22	-0.59	-0.31
NND	0.34	0.04	0.14	-0.13	-0.38	NND	0.19	-0.45	0.05	0.02	0.08
FORL	0.24	0.08	0.52	-0.28	0.20	FORL	0.41	0.22	-0.06	0.06	-0.18
HAL	0.14	-0.07	-0.62	0.14	-0.06	HAL	0.04	-0.05	-0.43	-0.30	-0.38
HIL	0.30	0.36	-0.12	-0.23	0.14	HIL	0.46	0.06	0.12	-0.14	0.15
FOTL	0.29	0.44	-0.11	0.04	0.11	FOTL	0.36	0.15	0.04	-0.30	0.25
FOL	0.10	0.41	-0.08	0.09	-0.48	FOL	0.17	0.57	0.00	0.10	-0.27
TIBL	0.33	0.31	-0.03	0.17	0.27	TIBL	0.47	0.07	0.08	-0.07	0.22