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Appendix A1

List of *Niphargus* taxa used in the phylogenetic analysis and their geographic origin.

Taxon	Acc. no. 28S (upper, middle)	Origin of samples
	Acc. no. H3 (lower)	
<i>Niphargus arbiter</i> G. Karaman, 1984	EF617287 - JQ815482	Tounjčica cave, Ogulin, Croatia; 1.8.2002; leg. B. Sket, voucher: NA052
<i>Niphargus bajuvaricus</i> Schellenberg, 1932	EF617259 JQ815449 JQ815476	Well (A96) in Lobau, Lobau, Austria, voucher: NA024
<i>Niphargus balcanicus</i> (Absolon, 1927)	EF617280 JQ815540 JQ815507	Vjetrenica cave, Zavala, Bosnia and Herzegovina; 4.8.2000; leg. P. Trontelj, voucher: NA070
<i>Niphargus bilecanus</i> S. Karaman, 1953	JQ815550 - -	Ljelješnica cave, Dabarsko polje, Bosnia and Herzegovina; 4.8.2000; leg. P. Trontelj, voucher: NA182
<i>Niphargus brachytelson</i> S. Karaman, 1952	EU693293 JQ815461	Lukova jama (cave), Zdihovo, Kočevje, Slovenia; 29. 4. 2002; leg. S. Polak, voucher: NA071

	JQ815489	
<i>Niphargus carniolicus</i> Sket, 1960	EF617252 JQ815525 JQ815501	Jama pod gradom Luknja (cave), Prečna, Novo mesto, Slovenia; 18.5.2002; leg. B. Sket, voucher: NA017
<i>Niphargus dabarensis</i> Fišer, Trontelj & Sket 2006	JQ815442 JQ815466 JQ815497	Dabarska pećina (cave), Bosnia and Herzegovina; 25.7. 2004; leg. P. Trontelj, voucher: NA142
<i>Niphargus dalmatinus</i> Shäfferna, 1922	EF617296 JQ815456 JQ815484	Spring near Vrana, Vrana, Zadar, Croatia, 12. 9. 1997; leg. R. Verovnik, voucher: NA060
<i>Niphargus dimorphopus</i> Stock & Gledhill, 1977	EU693296 - JQ815496	Well Dorpstraat 7, Reijmerstok, Limburg, Gulpen, Nederland; 1. 10. 2003; leg. J. Notenboom, voucher: NA125
<i>Niphargus dohati</i> Sket, 1999	EF617247 JQ815526 JQ815499	Phreatic water of Rak river, Rakov Škocjan, Rakek, Slovenia; 17.2.2006; leg. G. Bračko, M. Zagamajster, voucher: NA013
<i>Niphargus dolichopus</i> Fišer, Trontelj & Sket 2006	EU693297 - JQ815490	Suvaja pećina (cave), Lušci polje, Sanski most, Bosnia and Herzegovina; 26.7.2004; leg. P. Trontelj, voucher: NA076
<i>Niphargus elegans</i> Garbini, 1894	EF617297 JQ815457 JQ815485	Ditch in San Pancrazio, Verona, Italy; 15. 9. 2002; leg. P. Trontelj, S. Polak, C. Fišer, voucher: NA061
<i>Niphargus fongi</i> Fišer & Zagamajster, 2009	EF617253 - JQ815472	Dolga jama pri Koblarjih (cave), Kočevje, Slovenia; 23.11.2004; leg. M. Zagamajster, voucher: NA018
<i>Niphargus hercegovinensis</i> S.	JQ815549	Žira jama (cave), Turkovići, Bosnia and Herzegovina; 19.7.2005; leg. M. Zagamajster,

Karaman, 1950	JQ815539	voucher: NA151
	JQ815517	
<i>Niphargus hvarensis</i> S. Karaman, 1952	EF617273	Spring near monument in Trsteno, Dubrovnik, Croatia; 3.5. 2002; leg. C. Fišer, voucher: NA038
	JQ815452	
<i>Niphargus illidzensis</i> Schäferna, 1922	JQ815479	
	EU693304	Spring of river Bosna, Ilidža, Sarajevo, Bosnia and Herzegovina; 5. 5. 2002; leg. C. Fišer, S. Kralj, voucher: NA084
	JQ815462	
<i>Niphargus kochianus</i> Bate, 1859	JQ815491	
	EU693308	St. Albans, Hertfordshire, United Kingdom; leg. P. Wood, voucher: NA090
	-	
<i>Niphargus krameri</i> Schellenberg, 1935	JQ815492	
	EF617274	Brook Brestovac, Pazin, Croatia 30.5.2002; leg. C. Fišer, voucher: NA039
	JQ815453	
<i>Niphargus kusceri</i> S. Karaman, 1950	JQ815480	
	JQ815443	Obodska pećina (cave), Rijeka Crnojevića, Montenegro; 30.7.2002; leg. P. Trontelj, voucher: NA226
	-	
	-	
<i>Niphargus labacensis</i> (Sket, 1956)	EF617257	Phreatic water of Sava river, Sneberje, Ljubljana, Slovenia; 22.12.2004; leg. C. Fišer, G. Bračko, voucher: NA022
	-	
	JQ815474	
<i>Niphargus lessiniensis</i> Stoch, 1998	EF617300	Grotta dell' Aqua (cave), Ponte de Veja, Monti Lessini, Verona, Italy; 12.9.2002; leg. S. Prevorčnik, C. Fišer, voucher: NA064
	JQ815460	
	JQ815488	
<i>Niphargus likanus</i> S. Karaman, 1952	JQ815441	Jama v kamnolomu (cave), Vinica, Slovenia; 1.2.2008; leg. V. Zakšek, voucher: NA523
	-	
	JQ815498	
<i>Niphargus longicaudatus</i> [Krk]	EF617239	Springs South from the dock Voz, Krk, Croatia; leg. B. Sket, voucher: NA005
	-	
	JQ815468	

<i>Niphargus longicaudatus</i> [gargano]	EF617243 - JQ815470	Spring Sorgente di Laura, Gargano, Italy; 31.3.2004; leg. C. Fišer, voucher: NA009
<i>Niphargus longicaudatus</i> Costa, 1951	EF617241 JQ815445 JQ815469	Spring at the road, between Monte Faito and Vico Equense, Napoli, Italy; 26.3.2004; leg. C. Fišer, voucher: NA007
<i>Niphargus longidactylus</i> (Ruffo, 1937)	EF617256 - JQ815473	Phreatic water of Sava river, Sneberje, Ljubljana, Slovenia; 22.12.2004; leg. G. Bračko, C. Fišer, voucher: NA021
<i>Niphargus longiflagellum</i> S. Karaman, 1950	EU693311 JQ815536 JQ815520	Podpeška jama (cave), Dobropolje, Slovenia, 12.5.2002; leg. B. Sket, voucher: NA093
<i>Niphargus novomestanus</i> S. Karaman, 1952	EU693314 JQ815528 JQ815509	Spring Tominčev studenec, Dvor, Žužemberk, Slovenia; 18.5.2002; leg. B. Sket, voucher: NA096
<i>Niphargus orcinus</i> Joseph, 1869	EU693315 JQ815532 JQ815510	Križna jama (cave), Lož, Slovenia; 12.7.2002; B. Sket, S. Prevorčnik, C. Fišer, voucher: NA099
<i>Niphargus pachytelson</i> Sket, 1960	EU693316 JQ815535 JQ815511	Podpeška jama (cave), Dobropolje, Slovenia; 21.11. 2003; leg.S. Polak, B. Sket, D. Culver, voucher: NA100
<i>Niphargus pasquinii</i> (Vigna-Taglianti, 1966)	EF617244 JQ815447 JQ815471	Spring Sorgenti di S. Vittorino, Rieti, Lazio, Italy; 20.3.2004; leg. C. Fišer, voucher: NA010
<i>Niphargus pectinicauda</i> Sket, 1971	EF617258 JQ815448 JQ815475	Hyporheic water of Sava river, Tomačevo, Ljubljana, Slovenia; 22.12.2004; leg. C. Fišer, G. Bračko, voucher: NA023

<i>Niphargus podpecanus</i> S. Karaman, 1952	EU693317 JQ815529 JQ815512	Podpeška jama (cave), Dobropolje, Slovenia; 21.11. 2003; leg. S. Polak, B. Sket, D. Culver, voucher: NA101
<i>Niphargus polymorphus</i> Fišer, Trontelj & Sket 2006	EF617282 JQ815541 JQ815505	Obodska pečina (cave), Rijeka Crnojevića, Montenegro; 30.4.2005; leg. K. Jazbec, voucher: NA047
<i>Niphargus rejici</i> Sket, 1958	EF617283 JQ815454 JQ815481	Spring at lake Podpeško jezero, Ig, Ljubljana, Slovenia; 30.7.2002; B. Sket, voucher: NA048
<i>Niphargus salonitanus</i> S. Karaman, 1950	EF617289 JQ815455 JQ815483	Spring at church Stomarija, Kaštel Stari, Split, Croatia; 27. 4. 2004; leg. S. Kralj, C. Fišer, voucher: NA053
<i>Niphargus schellenbergi</i> S. Karaman, 1932	EF617267 JQ815451 JQ815478	Well of Heyd, Durbuy, Belgium, 13.10.2002, leg. J. Notenboom, voucher: NA032
<i>Niphargus scopicauda</i> Fišer et al., 2010	EF617261 JQ815450 JQ815477	Huda luknja (cave), Gornji Dolič, Slovenia; 16.11.2002; leg. C. Fišer, voucher: NA026
<i>Niphargus slovenicus</i> S. Karaman, 1932	EU693322 JQ815463 JQ815493	Stražišče near Kranj, Slovenia; 1.6.2002; leg. B. Sket, voucher: NA106
<i>Niphargus spinulifemur</i> (S. Karaman, 1954)	EU693323 JQ815464 JQ815494	Brook NE from village Hrastovlje, Slovenia; 25.4.2002; leg. R. Verovnik, voucher: NA107
<i>Niphargus spoeckeri</i> (Schellenberg, 1933)	EU693324 JQ815533	Pivka jama (cave), Postojna, Slovenia; 28.5.1999; leg. R. Verovnik, voucher: NA108

	JQ815513	
<i>Niphargus stenopus</i> Sket, 1960	EF617284 JQ815534	Jama pod gradom Luknja (cave), Prečna, Novo mesto, Slovenia; 19.9.2004; leg. B. Sket, voucher: NA049
<i>Niphargus stygius</i> (Shiödte, 1847)	JQ815506 EU693325 JQ815530	Jama pod Predjamskim gradom (cave), Postojna, Slovenia; 20.9.2002; leg. S. Polak, voucher: NA123
	JQ815515	
<i>Niphargus tatrensis</i> Wrzesniowski, 1888	EF617263	Spring Lodowe zrodlo, Koscieliska valley, Zakopane, Poland; 26.7.2002; leg. E. Dumnicka, voucher: NA028
<i>Niphargus timavi</i> (S. Karaman, 1954)	EU693327 JQ815465 JQ815495	Grotte di Trebiciano (cave), Trieste, Italy; 23.5.2002, leg. S. Prevorčnik, P. Trontelj, C. Fišer, voucher: NA114
<i>Niphargus tridentinus</i> Stoch 1998	EF617299 JQ815459 JQ815487	Bus Pursi cave, Lumezzane, Brescia, Italy; 12.9.2002; leg. P. Trontelj, B. Sket, voucher: NA063
<i>Niphargus trullipes</i> Sket, 1958	EF617281 JQ815504 JQ815504	Vjetrenica cave, Zavala, Bosnia and Herzegovina; 18.8.2005; leg. M. Zagmajster, voucher: NA046
<i>Niphargus vinodolensis</i> Fišer, Sket & Stoch 2006	EF617298 JQ815458 JQ815486	Stream below the bridge, Ceroviči, Vinodol, Croatia; 7. 12. 2002; leg. C. Fišer, voucher: NA062
<i>Niphargus virei</i> Chevreux, 1896	EF617237 JQ815444 JQ815467	Well Dorpstraat 7, Reijmerstok, Limburg, Nederlands, 2002; leg. J. Notenboom, voucher: NA003
<i>Niphargus vjeternicensis</i> S. Karaman, 1932	EU693329 JQ815538	Vjetrenica cave, Zavala, Bosnia and Herzegovina; 4.8.2000; leg. P. Trontelj, voucher: NA116

JQ815521

Niphargus wolfi
Schelleberg, 1933

EF617250

Križna jama cave, Lož, Slovenia; 12.7.2002; leg.
S. Prevorčnik, C. Fišer, B. Sket, voucher: NA015

JQ815524

JQ815500

Appendix A2

List of species analyzed for their life history traits.

Species	Lineage	Ecology	Origin of samples*
<i>Niphargus balcanicus</i> (Absolon, 1927)	1	cave	Vjetrenica, Zavala BIH [1 female].
<i>Niphargus bilecanus</i> S. Karaman, 1953	1	cave	Velika pećina, Fatničko polje, BIH, 9. 9. 1987 [1 female]; Ljelješnica, Dabarsko polje, BIH, 9. 1987 [3 females]; Vrioštica, Dabarsko polje, BIH [2 females].
<i>Niphargus dabarensis</i> Fišer, Trontelj & Sket 2006	1	cave	Dabarska pećina, Sanski most, BIH, 30.10.1969 [5 females].
<i>Niphargus hercegovinensis</i> S. Karaman, 1950	1	cave	Crnulja, Turkovići, BIH [1 female].
<i>Niphargus kusceri</i> S. Karaman, 1950	1	cave	Vilina pećina, Ključ, Avtovec, BIH, 11. 9. 1987 [2 females]; spring of Bregava, Stolac, BIH [4 females]; Dragalj, Kotor, MTG [2 females]; Spring at Fratka Zeta, MTG, 9.1976 [1 female].
<i>Niphargus longiflagellum</i> S. Karaman, 1950	2	cave	Potiskavc, Grosuplje, SLO [1 female]; Podpeška jama, Podpeč,

			Videm-Dobrepolje, collected in 1971, 1985 and 1998 [4 females];
<i>Niphargus pachytelson</i> Sket, 1960	2	cave	Stična, SLO, [1 female]; Kočevje, SLO, [1 female]; Jama v Luknji, Novo mesto, SLO, 11.1972, [2 females]; Krška jama, Ivančna gorica, SLO [1 female] 25.5.1983; Vrlovka, Ozalj, HRV [2 females] .
<i>Niphargus orcinus</i> Joseph, 1869	3	cave	Križna jama, Lož, SLO [4 females]; Jama za izvirov Žirovniščice, SLO, 5. 1971[1 female]; Jama Sušica, Nemška vas, SLO, 4.1981, [1 female].
<i>Niphargus dalmatinus</i> Shäfferna, 1922	4	springs	springs of river Karišnica, Zadar, HRV, 11.1986 [11 females].
<i>Niphargus spoeckeri</i> (Schellenberg, 1933)	4	springs	II. katavotron, Planina, SLO [2 females]; Planinska jama, Planina, 24.07.2003 [2 females].
<i>Niphargus likanus</i> S. Kararaman, 1952	4	springs	Vrlovka, Ozalj, HRV, 3.1974 [1 female].

<i>Niphargus krameri</i> Schellenberg, 1935	5	springs	Novaki, Pazin, HRV [3 females]; Žudetići, HRV [2 females]; spring, Brhaji, NE od Pazin, HRV, 6.6.2002 [2 females].
<i>Niphargus spinulifemur</i> (S. Karaman, 1954)	6	springs	subsidiary stream of the brook Glinščica, SLO, 29.5.2002 [4 females]; spring at Strunjanski tunel, SLO [2 females]; spring at Fermov mlin, Labor, Dragonja SLO, 25.5.2001 [1 female]; spring of Štulovca stream, Gračišče, SLO, 29.5.2002 [8 females].
<i>Niphargus timavi</i> (S. Karaman, 1954)	7	springs	stream of Kolaški potok, SLO, 26.2.2008 [7 females]; spring and stream, Podstenjšek, Šembije, Il. Bistrica, SLO, 07.2004 [12 females]; Novokrajska jama, Novokračine, SLO [6 females]; Podgorje, Zabiče, Ilirska Bistrica, SLO, 20.6.2004 [1 female].
