

Table S1. Georeferenced list of sampled sites on the Ojo Guareña Natural Monument.

Site	Locality	UTM Coordinates (30T)		
		X	Y	Z
CAVES				
OG. Palomera	Cueva	446595	4764790	714
1. Sima Rizuelos	Villamartín de Sotoscueva	445178	4764268	763
2. Kaite 2	Cueva	446349	4765570	862
3. Sima Jaime	Cornejo	449708	4764276	636
4. La Mina	Cornejo	448875	4764802	673
5. Prado Vargas	Cornejo	448748	4764761	662
6. Garcia	Villamartín de Sotoscueva	442630	4763545	934
7. San Bernabé	Cueva	446140	4765563	757
8. San Miguel	Quisicedo	447217	4766549	679
9. Llanas	Villamartín de Sotoscueva	444260	4764854	866
10. Cornejo	Cornejo	448840	4764830	650
11. Racino	Villamartín de Sotoscueva	444103	4763559	832
12. Redonda	Cornejo	444103	4764811	668
SPRINGS				
1. Torcona	Hornillayuso	450661	4762560	633
2. Pozo del Infierno	Quintanilla de Valdebodres	445348	4759578	661
3. Cornejo	Cornejo	448992	4764304	643
4. La Mea	Quintanilla de Valdebodres	444746	4759464	735
5. Villa	Villamartín de Sotoscueva	445145	4763215	811
6. Salce	Villamartín de Sotoscueva	446329	4762894	785
7. Cubio	Villamartín de Sotoscueva	446427	4763821	755
8. Calzada	Hornillayuso	450900	4762300	618
9. Jordana	Villamartín de Sotoscueva	444273	4763872	805
10. Mazo	Cornejo	449120	4763430	700
11. Avellanos	Quintanilla del Rebollar	449198	4766878	673
12. Mazo 2	Cornejo	449110	4763428	683
RIVERS/STREAMS				
1. Guareña	Cueva	445841	4765533	563
2. Ulemas	Quintanilla del Rebollar	449031	4766449	666
3.1. Trema-1	Cornejo	448681	4764430	638
3.2. Trema-2	Hornillayuso	451301	4762450	605
3.3. Trema-3	Torme	454396	4760064	617
4.1. Trueba-1	Machorras	452449	4774304	812
4.2. Trueba-2	Bárcenas	453762	4772171	772
4.3. Trueba-3	Espinosa de los Monteros	456750	4768183	723
5. Engaña	S. Matín de Porrés	440481	4763534	703
6. Nela-1	Santelices	439661	4759979	645
6.1.Nela-2	Puente de y	445454	4758908	609
7. Arroyo de la Hoz	Hornillatorre	446820	4767100	700
WELLS				
1. Torcon	Hornillayuso	451082	4762781	633
2. Chalet	Villabascos	445509	4766403	727

Table S2. List of stygophiles and troglaphiles species and sites where the stygophiles have been found in Ojo Guareña Natural Monument. OG = main cave; C = Cave; R = hyporheic of river; S = Spring and W = Well. Sites: reference number from the Table S1.

	Stygophiles	Sites
Rotifera	1 <i>Keratella</i> sp.	OG12
Oligochaeta	2 <i>Aelosoma</i> sp.	OG10
	3 <i>Cernosvitoviella palustris</i> Healy, 1979	11S; 3R, 6R
	4 <i>Lophochaeta ignota</i> (Stolc, 1886)	6R
	5 <i>Marionina</i> cf <i>argentea</i> (Michaelson, 1889)	OG:02,07,10,14,15,39,40; 8C, 10C, 11C, 12C; 1S, 5S, 6S, 8S, 11S; 3R, 4R, 5R, 6R; 1W
	6 <i>Pristina jenkiniae</i> (Stephenson, 1931)	OG: 02, 08; 8S; 4R
	7 <i>Rhyacodrilus falciformis</i> Bretscher, 1901	OG:02,08,10,14,15; 4S
	8 <i>Rhyacodrilus</i> sp.	OG:07, 08; 1S
	9 <i>Stylo-drilus heringianus</i> Claparède, 1862	OG12; 3R
Mollusca	10 <i>Belgrandiella cantabrica</i> Rolán, 1993	5S, 11S, 12S
Hydracnidia	11 <i>Axonopsis guadarramensis</i> Valdecasas, 1981	8C
Copepoda		
Cyclopida	12 <i>Diacyclops bicuspidatus</i> Claus, 1857	OG:07, 09, 40-42, 45-47
	13 <i>D. b. odessanus</i> (Schmankevitchlaus, 1875)	OG10
	14 <i>D. bisetosus</i> (Rehberg, 1880)	OG:01, 02, 07-10, 12, 35, 36, 38; 8C, 10C, 11C; 3R, 4R
	15 <i>D. crassicaudis</i> Sars, 1863	OG12
	16 <i>Diacyclops</i> sp. SB group <i>languidoides italianus</i>	OG09,14,53; S,
	17 <i>Diacyclops</i> sp. SC group <i>languidoides</i>	6R
Harpacticoida	18 <i>Attheyella crassa</i> (Sars, 1863)	4C, 11C; 1S, 4S, 6S, 7S, 8S, 10S, 11S; 3R, 4R, 5R, 6R
	19 <i>Bryocamptus echinatus</i> (Mrazek, 1893)	11C; 1S, 4S, 8S, 10S, 11S; 4R, 5R
	20 <i>Canthocamptus staphylinus</i> (Jurine, 1820)	6S, 9S
	21 <i>Epactophanes richardi</i> (Mrazek, 1893)	3R, 4R
	22 <i>Maraenobiotus vejdoovskyi truncatus</i> Gurney, 1932	2C
	23 <i>Paracamptus schmeili</i> (Mrazek, 1893)	1S, 6S, 11S; 3R, 4R, 6R
Ostracoda	24 <i>Candona candida</i> (Müller, 1776)	OG:07-11,12, 17, 31-34, 55; 11S
	25 <i>Candona neglecta</i> Sars, 1887	OG:07, 09, 10, 12, 14, 15; 6S, 9S
	26 <i>Cryptocandona "vavrai"</i> Kaufmann, 1900	8C; 7R
	27 <i>Cyclocypris</i> cf <i>ovum</i> (Jurine, 1820)	3R, 4R
	28 <i>Ilyocypris</i> sp.	7S
	29 <i>Potamocypris</i> n. sp. 1 cf " <i>fulva</i> "	OG: 02, 07, 08, 12,14, 17, 20; 1C, 2C, 7C; 4R
	30 <i>Potamocypris</i> n. sp. 2 cf " <i>zsoskhei</i> "	8C; 7S, 10S, 11S; 4R, 6R
	31 <i>Potamocypris</i> n. sp. 3 cf " <i>variegata</i> "	6R
	32 <i>Pseudocandona albicans</i> (Brady, 1864)	OG: 10, 32, 36, 40, 42-45, 47, 52, 53, 8C, 10C, 11C; 10F
Isopoda	33 <i>Proasellus</i> cf <i>ortizi</i> Henry &	OG: 02, 12, 36; 2S, 9S, 11S; 4R

Magniez, 1992		
Hirudinea	34 <i>Glossiphonia complanata</i> Linnaeus, 1758	OG: 32, 36; 3R, 7R
Troglophiles		
Acari	1 <i>Achipteria coleoptrata</i> (Linnaeus, 1758)	
	2 <i>Ceratoppia bipilis</i> (Hermann, 1804)	
	3 <i>Ceratozetes simulator</i> Pérez-Iñigo, 1969	
	4 <i>Oppia obsoleta</i> (Paoli, 1804)	
	5 <i>Oppia ornata</i> (Oudemans, 1900)	
Araneae	6 Undetermined	
Opiliones	7 <i>Ischryopsalis nodifera</i> Simon, 1879	
Pseudoscorpionida	8 Undetermined	
Myriapoda	9 Undetermined 1	
	10 Undetermined 2	
Coleoptera	11 <i>Deleaster dichrous</i> (Gravenhorst, 1802)	
	12 <i>Metopsia clypeata</i> (Miller, 1821)	
	13 <i>Ptinus clavipes</i> Panzer, 1792	
Isopoda	14 <i>Oniscus asellus</i> Linnaeus, 1758	



Figure S1. *Stenasellus virei buchneri* (Stammer, 1936) in OG14.