General data					Field information				Main parameters											Isotopic composition				Noble gases in gas samples										Noble gases in water samples											
Object name	Location	Country	Water type	Aquifer	Sampling date	Temp	EC	pH	Na^+	K^+	Ca^{2+}	Mg^{2+}	NH_4^+	Fe	Mn	Cl^-	HCO_3^-	SO_4^{2-}	SiO_2	$\delta^{18}O$	δ^2H	d -excess	^3H	He	Ne	Ar	Kr	Xe	R/Ra	$^4He/^{20}Ne^*$	20Ne/22Ne	40Ar/36Ar	Mantle He	He	Ne	Ar	Kr	Xe	3He/4He	R/Ra	$^4He/^{20}Ne^{**}$	20Ne/22Ne	40Ar/36Ar	Mantle He	NGT	References
						°C	µS/cm		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	‰	‰		TU	ppm	ppm	ppm	ppm	ppb					%	ccSTP/g	ccSTP/g	ccSTP/g	ccSTP/g	ccSTP/g						%	± 0,8 °C	
B-1	Varaždinske Toplice	Croatia	TMW	Triassic dolomite	29/11/2019	58.1	1160	6.32	97.7	11.9	123.6	26.6	0.8	0.12	0.52	52.0	510	153.8	51.4	-10.57	-72.8	11.7												1.79E-05	4.86E-07	9.33E-04	1.80E-07	2.24E-08		0.40				**6.2**		Rotár-Szalkai et al. 2018, HGI-CGS, 2021
Klokot	Varaždinske Toplice	Croatia	TMW	Triassic dolomite	12/06/1996	51.2	1176	6.59	76.8	40.9	127.3	27.3				86.6	445.3	155.8																												Jurišić-Mitrović, 2001
Vuč-2	Sveti Martin na Muri	Croatia	TMW	Neogene clastic rocks	29/11/2019	36.5	10840	6.88	2776.4	78.4	52.2	18.0	21.9	<0.1	<0.1	3290.7	2076	4.0	24.2	-10.56	-75.0	9.4																								Rotár-Szalkai et al. 2018
Podevčevo	Podevčevo	Croatia	TW	Triassic dolomite	12/06/1996	19.4	672	7.55	22.6	9.6	56.6	29.6				12.5	338	80	8																											Jurišić-Mitrović, 2001
Topličica	Gotalovec	Croatia	TW	Triassic dolomite	29/11/2019	29.6	437	7.44	2.7	0.8	62.1	23.7	<0.01			2.9	360	14	10	-10.84	-76.1	10.7																								Rotár-Szalkai et al. 2018
Topličica	Mađarevo	Croatia	TW	Triassic dolomite	29/11/2019	22.3	560	7.24	1.5	0.8	66.2	36.3	<0.01			1.3	370	13.8	9	-9.83	-68.6	10.1																								Rotár-Szalkai et al. 2018
B-33	Lenti	Hungary	TMW	Neogene clastic rocks	12/05/2010	69.1	1424	7.0	344.0	5.4	4.7	1.0	3.12	0.11	0.013	<0.1	970	1.51	39.1	-11.68	-84.2	9.2																								Szőcs et al. 2013
K-2	Pusztaszentlászló	Hungary	TMW	Neogene clastic rocks	19/05/2010	46.4	2270	7.1	547.0	21.9	7.8	3.1	4.64	0.092	0.005	5.52	1580	0.24	25.2	-10.70	-78.0	7.6																								Szőcs et al. 2013
B-4	Gutorfölde	Hungary	TW	Neogene clastic rocks	19/05/2010	20.2	409	6.8	55.1	0.8	18.3	12.9	0.25	0.012	0.026	0.29	273	0.79	19.9	-11.26	-80.8	9.3	<0.5											3.02E-07	2.21E-07	4.12E-04			3.40E-07	0.25		9.74	296.6	**3.8**	**7**	Szőcs et al. 2013
K-21	Lenti	Hungary	TW	Neogene clastic rocks	12/05/2010	27.6	268	7.8	50.7	<0.25	8.0	2.3	0.26	0.07	0.02	<0.1	154	0.38	17	-11.90	-87.3	7.9	<0.5											9.84E-07	3.55E-07	4.79E-04			3.61E-07	0.26		9.75	295	**4.0**	**7.5**	Szőcs et al. 2013
K-23	Lenti	Hungary	TW	Neogene clastic rocks	12/01/2010	35.9	270	7.9	56.1	0.3	6.2	0.7	0.29	0.035	0.017	<0.1	143	3.39	19.9	-11.82	-87.3	7.3	<0.5											3.36E-07	3.19E-07	4.78E-04			3.92E-07	0.28		9.8	297.3	**4.4**	**5.5**	Szőcs et al. 2013
K-59	Letenye	Hungary	TW	Neogene clastic rocks	18/05/2010	42.0	783	7.9	175.0	2.3	6.7	1.6	1.9	0.207	0.017	5.7	511	0.34	25.1	-11.45	-82.4	9.2												6.40E-08	1.33E-07					0.59		9.76		**9.0**		Szőcs et al. 2013
Polička slatina	Police	Slovenia	MF	Neogene clastic rocks	29/10/2014	10.4	70	4.5	0.7	0.9	7.6	1.6	0.11	0.23	0.173	1.2	6.1	4.2	6.4	-9.33	-65.7	8.9	7.9																							GeoZS, 2014
Slepice	Stavešinci	Slovenia	MF	Neogene clastic rocks	21/10/2013	11.4	94	4.37																17.4		70			5.14	826	9.85	386.9	**79**													Bräuer et al. 2016
Verjanska slatina	Zgornje Verjane	Slovenia	MF	Neogene clastic rocks	03/11/2014	11.1	503	6	15.5	5.2	82.2	24.9	0.2	4.59	0.136	28.8	373	23	17.4	-9.00	-60.4	11.6	8.6																							GeoZS, 2014
Žekš	Žerjavci	Slovenia	MF	Neogene clastic rocks	16/11/2010	11.1	1618	6.2	12.0	2.4	200.0	77.0	0.28	23	0.92	22	980	56	25																											Senekovič 2011
Žekš	Žerjavci	Slovenia	MF	Neogene clastic rocks	03/11/2014	9.6	1220	6.4	9.3	2.0	274.0	86.7	0.16	0.009	1.36	<0.1	1230	104	33.1	-10.31	-67.8	14.7	1.7																							GeoZS, 2014
Bračkova slatina	Spodnji Porčič	Slovenia	MW	Neogene clastic rocks	16/11/2010	14.6	1453	6.3	120.0	11.0	150.0	32.0	0.03	0.1	0.019	98	590	93	25																											Senekovič 2011
Breznikova slatina	Žerjavci	Slovenia	MW	Neogene clastic rocks	16/11/2010	11.6	1845	9.9	9.2	3.0	370.0	26.0	0.32	6.4	1.1	23	1200	14	25																											Senekovič 2011
Diematova slatina	Spodnji Porčič	Slovenia	MW	Neogene clastic rocks	16/11/2010	12.7	1431	6.6	15.0	9.8	270.0	19.0	0.1	2.3	1.3	15	920	32	34																											Senekovič 2011
Ihovska slatina	Ihova	Slovenia	MW	Neogene clastic rocks	01/09/2014	15.2	2110	6.1	26.0	6.1	308.0	88.4	-0.1	59.7	17.9	11.2	1590	4.1	37.1	-11.20	-74.6	15.0	1.9																							GeoZS, 2014
Kraljevi vrelec	Rogaška Slatina	Slovenia	MW	Neogene clastic rocks	2016	12.9	4980	6.3	1050.0	17.2	175.0	97.0	7.2	10.7	0.079	26	3930	1.1	20.9	-10.41	-63.8	19.5	2.991											1.16E-06	5.24E-09	2.98E-05	3.08E-09	1.48E-10		4.72	244.7			**72.6**		Rman et al. 2021
Lormanjska slatina	Lormanje	Slovenia	MW	Neogene clastic rocks	16/11/2010	13.3	2440	6.3	320.0	6.8	190.0	31.0	4.2	0.14	0.13	150	1500	3.2	25																											Senekovič 2011
Lormanjska slatina	Lormanje	Slovenia	MW	Neogene clastic rocks	01/09/2014	13.3	1996	5.2	347.0	6.7	216.0	33.5	6	0.224	0.106	167	1570	0.67	23.5	-10.49	-70.5	13.4	<0.5																							GeoZS, 2014
Matjaževa slatina	Spodnja Ščavnica	Slovenia	MW	Neogene clastic rocks	01/09/2014	12.6	2690	6.5	23.2	4.3	499.0	129.0	1.6	13	0.413	0.86	2080	5.9	58.1	-11.09	-75.1	13.6	<0.5											8.51E-07	2.51E-07					5.68		42.1	3.48	**87.4**		GeoZS, 2014, Ionescu & Rman, 2021
Niko-1	Nuskova	Slovenia	MW	Neogene clastic rocks	23/05/2008	14.6	1550	6.2	8.0	1.3	330.0	29.0	0.08	2	0.38	2	1100	85	27.8				<0.5											1.60E-07	5.50E-07					6.19		72.6	0.3	**95.2**		Lapanje et al. 2008, Ionescu & Rman, 2021
Nu-9	Nuskova	Slovenia	MW	Neogene clastic rocks	21/10/2013	15.8	2390	6.1																7.5		280			5.97	83	9.88	305.8	**92**													Bräuer et al. 2016
Oblak	Serdica	Slovenia	MW	Paleozoic metamorphic	29/10/2014	9.6	1384	6.1	31.8	2.1	219.0	47.8	0.11	2.61	0.559	0.23	988	22.2	29.2	-10.15	-70.0	11.2	3.2																							GeoZS, 2014
Radvenska slatina	Radvenci	Slovenia	MW	Neogene clastic rocks	01/09/2014	15.6	1933	6.2	24.0	9.8	320.0	89.6	<0.1	0.95	0.246	9.1	1490	0.56	36.2	-10.66	-72.5	12.8	2.9																							GeoZS, 2014
RgS-2/88	Rogaška Slatina	Slovenia	MW	Oligocene andesitic tuf	22/10/2013	16.3	10780	7.03																0.4		50			4.95	49	10.107	316.8	**76**													Bräuer et al. 2016
RgS-2/88	Rogaška Slatina	Slovenia	MW	Oligocene andesitic tuf	2016	15.8	11080	6.9	1470.0	20.3	461.0	1120.0	1.2	3.6	0.09	99	8300	2120	64.4	-11.97	-74.0	21.8	0.04	0.5	0.001	38	0.003	0.03	5.47	541.6			**84**													Rman et al. 2021
V-M	Radenci	Slovenia	MW	Neogene clastic rocks	21/10/2013	18.6	7480	6.67																1.4		30			4.62	12	9.986	298.2	**71**													Bräuer et al. 2016
V-M	Radenci	Slovenia	MW	Neogene clastic rocks																																										
Be-2/04	Benedikt	Slovenia	TMW	Paleozoic metamorphic	22/10/2013	65.0	8000	7.3																0.5		60			4.97	11	9.945	297.4	**76**													Bräuer et al. 2016
Be-2/04	Benedikt	Slovenia	TMW	Paleozoic metamorphic	28/10/2010	71.5	7080	7.1	1750.0	172.0	80.2	50.0	1.96	0.094	0.016	207	4660	344	147	-10.88	-76.3	10.7	<0.5	0.8	0.01	15			5	11	9.909	297.4	**77**													Szőcs et al. 2013
Le-2g	Lendava	Slovenia	TMW	Neogene clastic rocks	12/05/2011	60.3	1103	7.4	277.0	5.7	4.9	1.1	1.3	0.071	0.008	4.2	787	10.5	31.5	-11.84	-84.6	10.1	<0.5	41.0	10.03	12141	2393	276	0.52		9.811	297.5	**8**													Szőcs et al. 2011
Mo-2g	Moravci v Slo. goricah	Slovenia	TMW	Neogene clastic rocks	15/06/2010	51.1	1463	7.4	321.0	5.7	4.5	1.5	1.6	0.084	0.004	113	714	0.38	18.5	-10.89	-76.2	10.9	<0.5																							Szőcs et al. 2013
Mt-4	Moravske Toplice	Slovenia	TMW	Neogene clastic rocks	08/06/2010	74.4	16880	7.0	4270.0	211.0	60.8	10.7	17.7	0.24	0.02	3880	5040	168	40.5	-7.40	-62.5	-3.3	<0.5																							Szőcs et al. 2013
Mt-6	Moravske Toplice	Slovenia	TMW	Neogene clastic rocks	08/04/2014	42.7	1307	8.0																108.0		6800			0.94	48	9.882	298.7	**14**	1.13E-05	2.43E-07	5.01E-04	1.14E-07	1.68E-08		0.94	51.5	9.75	305.3	**14.5**	**3.6**	Bräuer et al. 2016
Mt-7	Moravske Toplice	Slovenia	TMW	Neogene clastic rocks	08/06/2010	55.7	1364	7.3	314.0	5.5	5.8	1.1	1.5	0.24	0.016	100	702	0.64	20.8	-11.04	-77.8	10.5	<0.5																							Szőcs et al. 2013
Pt-74/50	Lendava	Slovenia	TMW	Neogene clastic rocks	16/06/2010	49	1980	7.5	486.0	5.7	4.2	1.3	4.3	0.035	0.004	4	1380	1.2	18.8	-10.42	-78.9	4.5	<0.5																							Szőcs et al. 2013
Re-1g	Renkovci	Slovenia	TMW	Neogene clastic rocks	08/04/2014	56.4	1507	7.5	351.0	6.6	7.5	0.9	2.9	<0.1	<10	87.6	763.0	<1						256.0		7100			0.91	48	9.82	298.9	**14**													Bräuer et al. 2016
Rt-1/92	Rogaška Slatina	Slovenia	TMW	Triassic clastics and vol	2016	52	5730	6.8	1600.0	43.0	29.0	10.0	3.3	0.3	0.01	430	1949	1100	113	-10.30	-69.9	12.5	<0.2											4.28E-05	3.35E-07	4.38E-04	7.53E-08	4.81E-09		1.06				**16.3**		Rman et al. 2021, Trček & Leis, 2017
T-4/88	Radenci	Slovenia	TMW	Neogene clastic rocks	21/10/2013	35.7	9760	7.09																2.6		10			5.69	480	10.042	385.7	**88**													Bräuer et al. 2016
T-4/88	Radenci	Slovenia	TMW	Neogene clastic rocks	12/05/2011	37.1	10100	6.88	2420.0	442.0	184.0	123.0	16	1.9	0.028	128	7870	159	61.2	-12.65	-76.2	25.0	<0.5	4.7	0.0006	13	1.88	0.02	5.20		13.63	231.1	**80**													Szőcs et al. 2011
V-3/66-70	Rogaška Slatina	Slovenia	TMW	Oligocene andesitic tuf	22/10/2013	28.3	10280	7.07																1.3		10			5.26	497	9.96	390.6	**81**													Bräuer et al. 2016
V-3/66-70	Rogaška Slatina	Slovenia	TMW	Oligocene andesitic tuf	2016	28.3	10660	6.7	1530.0	12.2	480.0	894.0	0.6	6.8	0.134	68	7810	2240	115.4	-11.94	-75.5	20.0	0	2.2	0.003	1	0.008	<0.1	6.32	799.4			**97**													Rman et al. 2021
Ve-1/57	Banovci	Slovenia	TMW	Neogene clastic rocks	15/06/2010	57.9	1148	7.2	346.0	6.6	7.2	2.6	2.2	0.094	0.004	16.3	970	0.55	21.2	-11.39	-82.2	8.9	<0.5																							Szőcs et al. 2013
Do-3g	Dobrovnik	Slovenia	TW	Neogene clastic rocks	08/06/2010	58.5	640	7.5	152.0	2.8	6.1	0.6	1.3	0.1	0.017	2	440	0.84	23.7	-11.56	-83.4	9.1	<0.5											1.78E-07	6.63E-08	2.36E-04			3.88E-07	0.28		9.83	301.3	**4.3**	**5.5**	Szőcs et al. 2013
Mt-8g	Moravske Toplice	Slovenia	TW	Neogene clastic rocks	08/06/2010	56.6	957	7.6	228.0	4.1	5.2	0.7	1.2	0.14	0.015	53.8	559	1.1	20	-11.13	-81.5	7.5	<0.5											5.57E-07	3.96E-08	1.54E-04			1.15E-06	0.83		9.85	357.9	**12.7**	**6.4**	Szőcs et al. 2013
P-1/73	Ptuj	Slovenia	TW	Neogene clastic rocks	15/06/2010	38.4	520	7.4	103.0	1.6	14.0	6.0	0.44	0.114	0.011	0.25	357	0.55	20.6	-10.69	-77.1	8.4	<0.5											2.00E-06	2.82E-07	4.50E-04			1.35E-07	0.10		9.76	299.4	**1.5**	**6**	Szőcs et al. 2013
P-3/05	Ptuj	Slovenia	TW	Neogene clastic rocks	15/06/2010	52.7	813	7.3	194.0	3.5	6.4	1.6	1.1	0.175	0.01	0.42	559	0.37	21.1	-10.54	-75.4	8.9	<0.5											6.65E-06	3.78E-07	5.11E-04			6.82E-08	0.05		9.74	560.8	**0.8**		Szőcs et al. 2013
P-3/05	Ptuj	Slovenia	TW	Neogene clastic rocks																														9.20E-07	2.90E-08					0.04		42.4	32.99	**0.6**		Ionescu & Rman, 2021