

Supplementary Table S1

Supplementary Table 1. Detailed synthesis of the high frequency GPS-acquisition locations of the 30 castrated house cats *Felis catus* between January and November 2016. Time records in seconds, distances in meters, coordinates in decimal degrees (WGS84), areas in ha.

ID	Owner	Sex	Age	Northing	Easting	CORINE	Habitat	N. month	N. fixes	Mean monthly number of			Range in monthly	
										days	fixes	time	maximal distances	RD areas
1	1	♀	4	48.92303	1.97022	112,211	Suburban	9	8862	2.2 ± 0.1	985 ± 128	194 ± 24	69 – 130	0.6 – 1.3
2	2	♀	3	49.36394	0.50423	231,311	Rural	8	7048	1.5 ± 0.3	881 ± 233	156 ± 31	111 – 360	2.0 – 5.7
3	2	♂	5	49.36352	0.50568	231,311	Rural	8	11106	1.8 ± 0.1	1388 ± 204	127 ± 10	117 – 315	4.6 – 8.8
4	2	♀	5	49.37928	0.41521	231,311	Rural	8	15471	2.2 ± 0.4	1934 ± 290	102 ± 5	145 – 371	2.1 – 4.6
5	3	♀	5	48.80640	2.38905	112	Urban	6	3704	1.9 ± 0.2	617 ± 146	325 ± 79	106 – 172	1.5 – 2.1
6	4	♂	6	48.59295	2.21216	112,211	Suburban	9	10389	2.1 ± 0.1	1154 ± 88	172 ± 15	67 – 135	1.1 – 3.4
7	5	♂	6	48.42862	2.45648	112,313	Suburban	9	9944	2.1 ± 0.1	1105 ± 136	188 ± 32	125 – 323	2.8 – 6.6
8	6	nc	nc	48.82602	1.63801	112,311	Suburban	6	7010	2.1 ± 0.1	1168 ± 102	158 ± 16	80 – 262	0.9 – 2.4
9	6	♂	10	48.82598	1.63815	112,311	Suburban	9	15028	≈ 2	1670 ± 55	106 ± 3	93 – 140	0.7 – 1.3
10	7	♀	nc	48.90943	2.26291	112,141	Urban	9	5959	2.2 ± 0.2	662 ± 72	294 ± 21	71 – 286	0.7 – 4.0
11	8	♂	2	48.94023	2.02386	112,231	Suburban	5	9603	2.2 ± 0.2	1921 ± 71	92 ± 3	94 – 196	1.9 – 3.4
12	9	♂	2	48.65188	2.45271	112,141	Urban	8	15901	2.0 ± 0.1	1988 ± 166	97 ± 5	83 – 353	1.0 – 1.9
13	10	♂	8	48.77220	2.27855	112,141	Urban	11	7045	2.5 ± 0.7	640 ± 93	377 ± 71	74 – 437	0.8 – 3.3
14	11	♀	14	48.85269	2.50044	112	Urban	10	9041	2.0 ± 0.2	904 ± 167	257 ± 48	59 – 186	0.5 – 1.9
15	12	♀	4	48.80567	2.26208	112	Urban	6	3454	3.5 ± 0.6	576 ± 248	980 ± 383	64 – 105	0.7 – 0.8
16	13	♂	nc	48.85548	2.46448	112	Urban	10	11232	1.9 ± 0.1	1123 ± 96	161 ± 10	70 – 257	0.9 – 1.9
17	14	♀	2	48.80592	2.23667	112,311	Suburban	10	6807	2.1 ± 0.1	681 ± 92	320 ± 32	205 – 480	1.5 – 9.4
18	15	♂	7	48.98602	1.72161	112,111	Urban	8	13986	2.1 ± 0.2	1748 ± 414	164 ± 29	75 – 238	1.4 – 3.0
19	16	♀	4	48.87878	1.82578	211,112	Rural	5	3044	1.9 ± 0.2	609 ± 81	269 ± 25	58 – 171	0.5 – 1.7
20	17a	♀	nc	48.32232	2.74660	211,311	Rural	8	7994	1.9 ± 0.4	999 ± 236	183 ± 48	193 – 353	1.9 – 5.2
21	17b	♂	6	48.40269	2.77786	112,311	Rural	8	9034	2.4 ± 0.7	1129 ± 466	203 ± 30	30 – 322	0.5 – 8.1
22	17c	♂	14	48.33777	2.74575	112,311	Rural	8	7912	2.6 ± 0.5	989 ± 140	224 ± 22	75 – 216	0.8 – 3.6
23	18	♀	nc	48.79697	2.13941	112	Urban	10	2577	2.4 ± 0.4	258 ± 49	978 ± 176	54 – 142	0.8 – 2.6
24	19	♀	3	48.80033	2.16285	112,311	Suburban	10	9122	≈ 2	912 ± 67	201 ± 19	84 – 180	1.1 – 1.9
25	20	♀	2	48.32532	2.13118	112,311	Rural	6	6793	3.8 ± 1.4	1132 ± 214	331 ± 120	88 – 136	1.0 – 1.4
26	21	♀	6	48.8121	2.30258	112,111	Urban	7	3543	1.5 ± 0.2	506 ± 115	328 ± 81	109 – 226	1.2 – 4.8
27	22	♀	nc	48.8536	2.45080	112	Urban	8	5417	1.9 ± 0.1	677 ± 170	240 ± 41	73 – 209	0.9 – 1.9
28	23	♂	5	48.72410	2.52888	112,142	Urban	8	10265	1.7 ± 0.1	1283 ± 110	133 ± 20	86 – 137	0.6 – 1.1
29	24	♂	3	48.81676	2.24511	112,111	Urban	10	17577	2.0 ± 0.2	1758 ± 288	159 ± 36	46 – 125	0.3 – 1.2
30	25	♂	nc	48.66217	2.58148	211,311,112	Rural	10	12249	2.7 ± 0.5	1361 ± 182	197 ± 38	126 – 427	1.6 – 7.9

Habitat variable was defined according to the landscape levels defined by the CORINE landcover project for the French mainland territory (CORINE Land Cover 2012; <http://www.statistiques.developpement-durable.gouv.fr/donnees-ligne/li/2539/0/base-donnees-geographique-corine-land-cover-clc.html>).

A total of 25 owners kindly participated in the monitoring of their pets. Twenty three aged and sexed cats were equipped monthly with a GPS Position Logger (CatTrack I, Perthold Engineering™) between January and November of 2016 (Supplementary Table 1). The logger weighed 22g and contained a Sirf III chipset programmed to acquire fixes at 1 to 5 mn intervals. Of the 30 neutered cats, 11 females and 12 males were 2–14 years old. An additional 6 castrated cats, not aged (4♀ and 2♂), and one individual neither aged nor sexed, were also monitored. We kept locations for estimated horizontal position error (EHPE) of less than 5000cm, which represented 70% of the total dataset (n=267394). Such data filtering does not guarantee that location errors are completely avoided (Morris et al. 2017). Therefore, we plotted the monthly trajectories of each cat, and manually eliminated all visually aberrant locations well outside of the polygon encompassing the area frequented by a cat.

The cats were monitored on average for 8.2 ± 0.3 months (range: 5 – 11). For each cat, monthly mean session tracking duration ranged between 1.5 ± 0.3 and 3.5 ± 0.6 days, mean number of fixes per cats ranged between 304 ± 177 and 1988 ± 180 , and mean duration interval between location acquisitions between 92 ± 3 and 377 ± 71 s, except for two cats, ID15 and 23, for which mean duration between relocations were respectively 980 ± 383 s and 978 ± 176 s, corresponding to a 15 mn interval. In only two occasions out of 246 model estimates from RD-MKDE models, aberrant range areas were obtained. The first involved the cat ID21 in August 2016 with an area of 0.2 ha – which was due to a very short monitoring duration during the session (i.e., 6 hours). In March 2016, cat ID30 had a range area of 79.7 ha, which was due to unrealistic location acquisition. Excluding these two ranges, monthly home range areas of cats ranged between 0.5 and 9.4 ha (n = 244).

Morris G, Conner LM. 2017 Assessment of accuracy, fix success rate, and use of estimated horizontal position error (EHPE) to filter inaccurate data collected by a common commercially available GPS logger. *PLoS ONE* 12, e0189020. (doi 10.1371/journal.pone.0189020)

Supplementary Figure S2

A minimum distance between successive relocations (L_{\min}), defining intensive use or resting must be set. Average daily speed of cats has been found to range between 0.1–0.6km/h (i.e., 0.1–0.9m/s; George 2010, Martin et al. 2013, Recio et al. 2010). As a consequence, we set L_{\min} at 5m – corresponding to the minimum distance between successive relocations in order to define intensive resting activity based on a threshold speed of 0.3km/h (i.e., 0.4m/s). The maximum duration allowed for a step built by successive relocations (T_{\max}) also needs to be set to warrant homogeneous movements (Benhamou 2011). It allows tracking distances longer in time without relocation to be dismissed from the location distribution, as they could reflect a lack of position data acquisition due to various habitat features. We set T_{\max} to 1800s in all models. The minimum smoothing parameter (h_{\min}) applied to all recorded relocations was set to 5m, close to the averaged location error for most GPS devices containing a Sirf III chipset (i.e., location error on average 6m, and 50% circular error close to 7m (Morris et al. 2017). The radius of the patches used was set to $3 \times h_{\min}$. The maximum time threshold that the animal was allowed to spend outside the patch before considering it actually left it was set to 60s.

Choice of T_{\max} in MKDE analyses can lead to variation in utilization distribution estimates (Benhamou 2011). We looked at the influence on the monthly home range size calculated from RD-MKDE models for 9 different cats (cat ID 1-7 and 28, 29; n = 75 estimates) with different value of T_{\max} – all other parameters being held constant (i.e., $L_{\min} = 5$ m, $h_{\min} = 5$ m, $radius = 3 \times h_{\min}$, $maxt = 60$ s). We compared the 75 monthly estimates of RD-home range size calculated using $T_{\max} = 3600$ s, to the 75 monthly estimates of RD-HR size calculated using $T_{\max} = 300$ s, 900 s, and 1800s. We found that RD-HR estimate with the 75 monthly estimates using $T_{\max} = 300$ s represented on average $89 \pm 1\%$ of the RD-HR size calculated using $T_{\max} = 3600$ s, $T_{\max} = 900$ s represented on average $94 \pm 1\%$, and $T_{\max} = 1800$ s represented on average $96 \pm 1\%$ (Figure below).

We decided to keep $T_{\max} = 1800$ s in all other analysis of cats home range size.

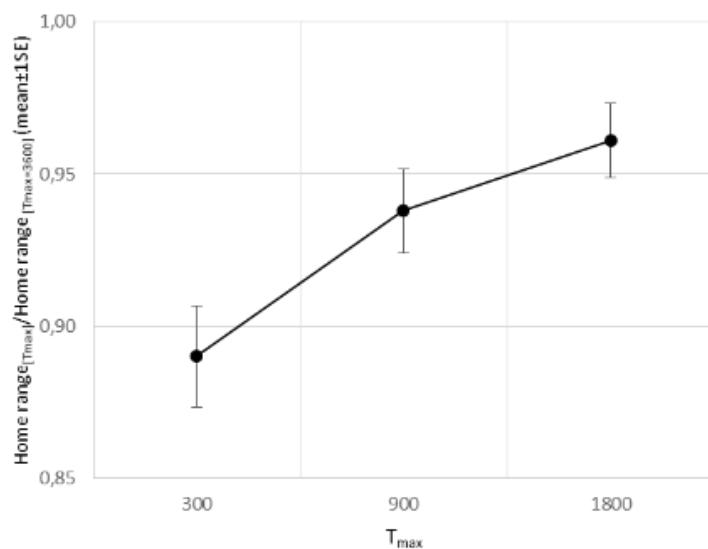


Fig. S2. Influence of varying T_{\max} parameter on 95%RD-MKDE home range area estimates.

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Supplementary Table S3

Supplementary Table 3a. Details of the seasonal number of events of preys brought to home recorded by owners of 16 cats over the year 2016.

Habitat	Cat ID	Owner	Prey		Winter Jan. - Mar.	Spring Apr. - Jun.	Summer Jul. - Sep.	Autumn Oct. - Dec.	Total
			categories	Identity					
Rural	2	2	MM	<i>Apodemus sylvaticus</i>	-	-	1	2	3
			MM	<i>Crocidura</i> sp.	-	2	1	-	3
			MM	<i>Arvicolinea</i> sp.	-	-	1	-	1
			MM	<i>Microtus</i> sp.	-	1	-	-	1
			MM	<i>Muridae</i> (<50 g)	-	-	1	-	1
			MM	<i>Mus domesticus</i>	-	-	1	-	1
			MM	<i>Myodes glareolus</i>	-	-	-	1	1
			SB	<i>Turdidae</i> sp.	-	-	1	-	1
			MM	<i>Apodemus sylvaticus</i>	-	3	7	3	13
			MM	<i>Myodes glareolus</i>	-	1	9	-	10
3	2	2	MM	<i>Crocidura</i> sp.	2	1	0	1	4
			MM	<i>Microtus</i> sp.	1	1	1	-	3
			MM	<i>Arvicolinea</i> sp.	-	1	1	1	3
			MM	<i>Muridae</i> (<50 g)	-	-	1	-	1
			OTHER	<i>Rattus norvegicus</i>	1	-	-	-	-
			SB	<i>Troglodytes troglodytes</i>	-	2	-	-	2
			MM	<i>Apodemus sylvaticus</i>	-	1	2	-	3
			MM	<i>Myodes glareolus</i>	-	-	1	2	3
			MM	<i>Soricidae</i> sp.	-	1	-	-	1
			MM	<i>Arvicolinea</i> sp.	-	1	-	-	1
4	2	2	OTHER	Medium-large sized bird	-	-	1	-	1
			SB	Small passerine	1	-	-	-	1
			SB	<i>Troglodytes troglodytes</i>	-	1	-	-	1
			SB	<i>Phoenicurus ochruros</i>	-	-	1	-	1
			SB	<i>Erythacus rubecula</i>	-	-	-	1	1
			MM	<i>Apodemus sylvaticus</i>	7	3	2	1	13
			MM	<i>Arvicolinea</i> sp.	1	5	3	-	9
			MM	<i>Microtus</i> sp.	-	3	-	-	3
			MM	<i>Soricidae</i> sp.	1	1	1	-	3
			MM	<i>Myodes glareolus</i>	-	-	-	1	1
5	3	3	MM	<i>Mus domesticus</i>	1	-	-	-	1
			SB	<i>Troglodytes troglodytes</i>	-	1	-	-	1
			SB	<i>Phoenicurus ochruros</i>	-	-	1	-	1
			SB	<i>Erythacus rubecula</i>	-	-	-	1	1
			MM	<i>Apodemus sylvaticus</i>	7	3	2	1	13
			MM	<i>Arvicolinea</i> sp.	1	5	3	-	9
			MM	<i>Microtus</i> sp.	-	3	-	-	3
			MM	<i>Soricidae</i> sp.	1	1	1	-	3
			MM	<i>Myodes glareolus</i>	-	-	-	1	1
			MM	<i>Mus domesticus</i>	1	-	-	-	1
30	25	25	MM	<i>Muridae</i> (<50 g)	-	-	-	-	1
			OTHER	<i>Rodentia</i> (> 50 g)	-	-	1	1	2
			OTHER	<i>Lagomorpha</i>	-	-	-	1	1
			OTHER	<i>Pica pica</i>	-	1	-	-	1
			SB	<i>Passer</i> sp.	-	1	-	-	1
			SB	<i>Paridae</i> sp.	-	1	-	-	1
			MM	<i>Mus domesticus</i>	3	-	-	-	3
			SB	<i>Turdus merula</i>	-	1	-	-	1
			MM	<i>Soricidae</i> sp.	1	2	-	-	3
			OTHER	<i>Podarcis muralis</i>	-	3	-	-	4
Suburban	1	1	OTHER	Unidentified bird	-	1	-	-	1
			MM	<i>Mus domesticus</i>	1	-	-	1	1
			MM	<i>Muridae</i> (<50 g)	-	-	1	-	1
			OTHER	<i>Rodentia</i> (> 50 g)	-	-	1	1	2
			OTHER	<i>Lagomorpha</i>	-	-	-	1	1
			OTHER	<i>Pica pica</i>	-	1	-	-	1
			SB	<i>Passer</i> sp.	-	1	-	-	1
			SB	<i>Paridae</i> sp.	-	1	-	-	1
			MM	<i>Mus domesticus</i>	3	-	-	-	3
			SB	<i>Turdus merula</i>	-	1	-	-	1
6	4	4	MM	<i>Soricidae</i> sp.	1	2	-	-	3
			OTHER	<i>Podarcis muralis</i>	-	3	-	-	4
			OTHER	Unidentified bird	-	1	-	-	1
			MM	<i>Muridae</i> (<50 g)	1	1	1	-	3
			MM	<i>Apodemus</i> sp.	-	2	-	-	2
			OTHER	<i>Talpa</i> sp.	-	1	-	-	1
			SB	<i>Cyanistes caeruleus</i>	-	1	-	-	1
			MM	<i>Arvicolinea</i> sp.	-	2	1	2	5
			MM	<i>Apodemus</i> sp.	-	-	2	-	2
			SB	<i>Prunella modularis</i>	-	2	1	-	3
7	5	5	SB	<i>Passer domesticus</i>	2	-	-	-	2
			SB	<i>Phylloscopus collybita</i>	-	2	-	-	2
			SB	<i>Turdus philomelos</i>	-	-	2	-	2
			SB	<i>Troglodytes troglodytes</i>	1	-	-	-	1
			SB	<i>Sylvia atricapilla</i>	-	1	-	-	1
			SB	<i>Turdus merula</i>	-	-	1	-	1
			SB	<i>Cyanistes caeruleus</i>	-	-	1	-	1
			SB	<i>Streptopelia decaocto</i>	-	-	1	-	1
			MM	<i>Apodemus</i> sp.	3	2	2	-	7
			MM	<i>Soricidae</i> sp.	1	1	4	-	6
8	6	6	MM	<i>Arvicolinea</i> sp.	1	2	2	-	5
			MM	<i>Micromys minutus</i>	-	1	-	-	1
			OTHER	Unidentified prey	-	-	7	-	7
			OTHER	<i>Podarcis muralis</i>	-	4	-	-	4
			OTHER	Unidentified mammal	-	1	-	-	1
			OTHER	<i>Columba</i> sp.	-	-	1	-	1
			MM	<i>Mus domesticus</i>	-	1	-	-	1
			MM	<i>Soricidae</i> sp.	-	-	2	-	2
			SB	<i>Turdus merula</i>	-	6	4	-	10
			SB	<i>Phoenicurus ochruros</i>	-	2	1	-	3
9	6	6	SB	<i>Streptopelia decaocto</i>	1	-	-	-	1
			SB	<i>Erithacus rubecula</i>	1	-	-	-	1
			SB	<i>Cyanistes caeruleus</i>	-	-	1	-	1
			MM	<i>Arvicolinea</i> sp.	-	-	-	-	1
			MM	<i>Apodemus</i> sp.	-	-	-	-	1
11	8	8	MM	<i>Soricidae</i> sp.	-	-	-	-	2
			SB	<i>Phoenicurus ochruros</i>	-	-	-	-	2
			SB	<i>Streptopelia decaocto</i>	1	-	-	-	1
			SB	<i>Erithacus rubecula</i>	-	-	-	-	1
24	19	19	SB	<i>Cyanistes caeruleus</i>	-	-	-	-	1

			MM	Soricidae sp.	-	4	1	-	5
			MM	<i>Sorex coronatus</i>	-	-	1	-	1
			MM	<i>Sorex minutus</i>	-	-	1	-	1
			OTHER	<i>Rattus norvegicus</i>	1	-	-	-	1
			OTHER	Unidentified bird	-	1	-	-	1
Urban	16	13	SB	Paridae sp.	-	-	-	1	1
			MM	Muridae (<50 g)	-	2	2	1	5
			MM	<i>Mus musculus</i>	-	-	1	-	1
			MM	<i>Apodemus</i> sp.	1	-	-	-	1
			MM	Arvicolinea sp.	1	-	-	-	1
			MM	Soricidae sp.	-	1	-	-	1
			26	<i>Mus musculus</i>	2	0	0	0	2
			OTHER	ODONATA	0	1	0	0	1
			14	<i>Periparus ater</i>	-	1	-	-	1
15	15	12	MM	<i>Mus musculus</i>	2	3	-	-	5
			MM	Muridae (<50 g)	1	-	-	-	1
			OTHER	<i>Rattus norvegicus</i>	1	-	2	-	3
			OTHER	Unidentified bird	2	-	-	-	2
			OTHER	Unidentified prey	1	-	-	-	1
			MM	<i>Apodemus</i> sp.	1	0	0	0	1
			OTHER	LEPIDOPTERA	-	-	2	-	2
			OTHER	ARANAE	-	-	1	-	1
			OTHER	<i>Tettigonia viridissima</i>	-	-	1	-	1
			OTHER	<i>Bufo bufo</i>	-	-	1	-	1

Supplementary Table 3b. Details of the daily events of small birds and mammals preys brought to home recorded from 16 cats housed by 12 owners over the year 2016.

Owner	Cat_ID	hab2b	Prey_id		date_Jul	small_birds	micro_mamm
1	3	Rural	Campagnol_des_champs		170	0	1
1	3	Rural	Campagnol_non_identifie		268	0	1
1	3	Rural	Campagnol_roussatre		329	0	1
1	3	Rural	Crocidure_musette		168	0	1
1	3	Rural	Crocidure_musette		179	0	1
1	3	Rural	Crocidure_musette		257	0	1
1	3	Rural	Mulot_sylvestre		225	0	1
1	3	Rural	Mulot_sylvestre		284	0	1
1	3	Rural	Mulot_sylvestre		342	0	1
1	3	Rural	Petit_rongeur_souris_mulots_campagnols_non_identifie		240	0	1
1	3	Rural	Souris_grise		214	0	1
1	8	Rural	Campagnol_des_champs		156	0	1
1	8	Rural	Campagnol_non_identifie		57	0	1
1	8	Rural	Campagnol_non_identifie		166	0	1
1	8	Rural	Campagnol_non_identifie		200	0	1
1	8	Rural	Campagnol_roussatre		179	0	1
1	8	Rural	Campagnol_roussatre		183	0	1
1	8	Rural	Campagnol_roussatre		195	0	1
1	8	Rural	Campagnol_roussatre		203	0	1
1	8	Rural	Campagnol_roussatre		208	0	1
1	8	Rural	Campagnol_roussatre		210	0	1
1	8	Rural	Campagnol_roussatre		251	0	1
1	8	Rural	Campagnol_roussatre		252	0	1
1	8	Rural	Campagnol_roussatre		257	0	1
1	8	Rural	Campagnol_roussatre		267	0	1
1	8	Rural	Campagnol_souterrain		204	0	1
1	8	Rural	Crocidure_musette		168	0	1
1	8	Rural	Crocidure_musette		340	0	1
1	8	Rural	Grive_non_identifiee		224	1	0
1	8	Rural	Mulot_non_identifie		253	0	1
1	8	Rural	Mulot_sylvestre		15	0	1
1	8	Rural	Mulot_sylvestre		166	0	1
1	8	Rural	Mulot_sylvestre		166	0	1
1	8	Rural	Mulot_sylvestre		168	0	1
1	8	Rural	Mulot_sylvestre		186	0	1
1	8	Rural	Mulot_sylvestre		188	0	1
1	8	Rural	Mulot_sylvestre		190	0	1
1	8	Rural	Mulot_sylvestre		190	0	1
1	8	Rural	Mulot_sylvestre		191	0	1
1	8	Rural	Mulot_sylvestre		252	0	1
1	8	Rural	Mulot_sylvestre		294	0	1
1	8	Rural	Mulot_sylvestre		301	0	1
1	8	Rural	Mulot_sylvestre		332	0	1
1	8	Rural	Musaraigne_couronnee		59	0	1
1	8	Rural	Petit_campagnol_Micromys_Myodes_non_identifie		339	0	1
1	8	Rural	Petit_rongeur_souris_mulots_campagnols_non_identifie		224	0	1
1	8	Rural	Rat_surmulot		59	0	0
1	10	Rural	Campagnol_non_identifie		128	0	1
1	10	Rural	Campagnol_roussatre		255	0	1
1	10	Rural	Campagnol_roussatre		282	0	1
1	10	Rural	Campagnol_roussatre		298	0	1
1	10	Rural	Mulot_sylvestre		166	0	1

Supplemental information to GPS-based seasonal home ranges of neutered pet cats *Felis catus* in a gradient of habitat
 Pisani, B., Pavisse, R., Clergeau, P. - *Hystrix, the Italian Journal of Mammalogy* doi:10.4404/hystrix-31.2-00270-2019

1	10	Rural	Mulot_sylvestre	242	0	1
1	10	Rural	Mulot_sylvestre	250	0	1
1	10	Rural	Musaraigne_non_identifiee	145	0	1
1	10	Rural	Oiseau_de_taille_moyenne-grande_non_identifiee	212	0	0
1	10	Rural	Troglodyte_mignon	102	1	0
1	10	Rural	Troglodyte_mignon	149	1	0
1	11	Rural	Campagnol_des_champs	138	0	1
1	11	Rural	Campagnol_des_champs	141	0	1
1	11	Rural	Campagnol_des_champs	148	0	1
1	11	Rural	Campagnol_non_identifie	79	0	1
1	11	Rural	Campagnol_non_identifie	101	0	1
1	11	Rural	Campagnol_non_identifie	106	0	1
1	11	Rural	Campagnol_non_identifie	107	0	1
1	11	Rural	Campagnol_non_identifie	133	0	1
1	11	Rural	Campagnol_non_identifie	155	0	1
1	11	Rural	Campagnol_non_identifie	183	0	1
1	11	Rural	Campagnol_non_identifie	187	0	1
1	11	Rural	Campagnol_non_identifie	194	0	1
1	11	Rural	Campagnol_roussatre	330	0	1
1	11	Rural	Mulot_sylvestre	18	0	1
1	11	Rural	Mulot_sylvestre	31	0	1
1	11	Rural	Mulot_sylvestre	32	0	1
1	11	Rural	Mulot_sylvestre	75	0	1
1	11	Rural	Mulot_sylvestre	77	0	1
1	11	Rural	Mulot_sylvestre	85	0	1
1	11	Rural	Mulot_sylvestre	86	0	1
1	11	Rural	Mulot_sylvestre	134	0	1
1	11	Rural	Mulot_sylvestre	143	0	1
1	11	Rural	Mulot_sylvestre	166	0	1
1	11	Rural	Mulot_sylvestre	216	0	1
1	11	Rural	Mulot_sylvestre	224	0	1
1	11	Rural	Mulot_sylvestre	330	0	1
1	11	Rural	Musaraigne_non_identifiee	27	0	1
1	11	Rural	Musaraigne_non_identifiee	58	0	1
1	11	Rural	Musaraigne_non_identifiee	148	0	1
1	11	Rural	Musaraigne_non_identifiee	200	0	1
1	11	Rural	Oiseau_non_identifie	166	0	0
1	11	Rural	Oiseau_non_identifie	192	0	0
1	11	Rural	Petit_passereau_oiseau_non_identifie	78	1	0
1	11	Rural	Rouge-gorge	294	1	0
1	11	Rural	Rouge-queue_noir	224	1	0
1	11	Rural	Troglodyte_mignon	175	1	0
2	9	Rural	Gros_rongeur_rats_rats_musques_non_identifie	263	0	0
2	9	Rural	Gros_rongeur_rats_rats_musques_non_identifie	316	0	0
2	9	Rural	Lagomorphe_lapins_lievres_non_identifie	304	0	0
2	9	Rural	Petit_rongeur_souris_mulots_campagnols_non_identifie	262	0	1
2	9	Rural	Pie_bavarde	141	0	0
2	9	Rural	Souris_grise	4	0	1
2	9	Rural	Souris_grise	308	0	1
3	4	Suburban	Mesange_non_identifiee	127	1	0
3	4	Suburban	Moineau_non_identifie	141	1	0
3	4	Suburban	Souris_grise	52	0	1
3	4	Suburban	Souris_grise	67	0	1
3	4	Suburban	Souris_grise	78	0	1
4	5	Suburban	Lezard_des_murailles	128	0	0
4	5	Suburban	Merle_noir	161	1	0
4	5	Suburban	Musaraigne_indeeterminee	97	0	1
4	5	Suburban	Musaraigne_indeeterminee	154	0	1
4	5	Suburban	Musaraigne_non_identifiee	60	0	1
4	5	Suburban	Oiseau_non_identifie	154	0	0
4	5	Suburban	Oiseau_non_identifie	160	0	0
4	5	Suburban	Oiseau_non_identifie	160	0	0
5	16	Suburban	Mulot_non_identifie	112	0	1
5	16	Suburban	Mulot_non_identifie	159	0	1
5	16	Suburban	Petit_rongeur_souris_mulots_campagnols_non_identifie	74	0	1
5	16	Suburban	Petit_rongeur_souris_mulots_campagnols_non_identifie	91	0	1
5	16	Suburban	Petit_rongeur_souris_mulots_campagnols_non_identifiem	218	0	1
5	16	Suburban	Taupe	139	0	0
6	2	Suburban	Mesange_bleue	154	1	0
6	2	Suburban	Mulot_indeetermine	243	0	1
6	2	Suburban	Mulot_indeetermine	256	0	1
6	2	Suburban	Petit_campagnol_indeetermine	162	0	1
6	2	Suburban	Petit_campagnol_indeetermine	170	0	1
6	2	Suburban	Petit_campagnol_indeetermine	205	0	1
6	2	Suburban	Petit_campagnol_indeetermine	301	0	1
6	2	Suburban	Petit_campagnol_indeetermine	309	0	1
7	15	Suburban	Accenteur_mouchet	151	1	0
7	15	Suburban	Accenteur_mouchet	164	1	0
7	15	Suburban	Accenteur_mouchet	189	1	0
7	15	Suburban	Fauvette_a_tete_noire	174	1	0
7	15	Suburban	Grive_musicienne	223	1	0
7	15	Suburban	Grive_musicienne	252	1	0
7	15	Suburban	Lezard_des_murailles	139	0	0

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7	15	Suburban	Lizard_des_murailles	147	0	0
7	15	Suburban	Lizard_des_murailles	160	0	0
7	15	Suburban	Lizard_des_murailles	170	0	0
7	15	Suburban	Mammifere_non_identifie	92	0	0
7	15	Suburban	Merle_noir	253	1	0
7	15	Suburban	Mesange_bleue	187	1	0
7	15	Suburban	Moineau_domestique	16	1	0
7	15	Suburban	Moineau_domestique	78	1	0
7	15	Suburban	Mulot_indeetermine	3	0	1
7	15	Suburban	Mulot_indeetermine	25	0	1
7	15	Suburban	Mulot_indeetermine	45	0	1
7	15	Suburban	Mulot_indeetermine	97	0	1
7	15	Suburban	Mulot_indeetermine	157	0	1
7	15	Suburban	Mulot_indeetermine	215	0	1
7	15	Suburban	Mulot_indeetermine	246	0	1
7	15	Suburban	Musaraigne_indeeterminee	84	0	1
7	15	Suburban	Musaraigne_indeeterminee	182	0	1
7	15	Suburban	Musaraigne_indeeterminee	186	0	1
7	15	Suburban	Musaraigne_indeeterminee	221	0	1
7	15	Suburban	Musaraigne_indeeterminee	241	0	1
7	15	Suburban	Musaraigne_indeeterminee	244	0	1
7	15	Suburban	pas_dans_propositions	253	0	0
7	15	Suburban	pas_dans_propositions	253	0	0
7	15	Suburban	pas_dans_propositions	253	0	0
7	15	Suburban	pas_dans_propositions	253	0	0
7	15	Suburban	pas_dans_propositions	253	0	0
7	15	Suburban	pas_dans_propositions	253	0	0
7	15	Suburban	Petit_campagnol_indeetermine	11	0	1
7	15	Suburban	Petit_campagnol_indeetermine	91	0	1
7	15	Suburban	Petit_campagnol_indeetermine	171	0	1
7	15	Suburban	Petit_campagnol_indeetermine	213	0	1
7	15	Suburban	Petit_campagnol_indeetermine	220	0	1
7	15	Suburban	Pigeon_biset/ramier	247	0	0
7	15	Suburban	Pouillot_veloce	156	1	0
7	15	Suburban	Pouillot_veloce	167	1	0
7	15	Suburban	Rat_des_moisssons	168	0	1
7	15	Suburban	Tourterelle_turque	250	0	0
7	15	Suburban	Troglodyte_mignon	63	1	0
8	6	Suburban	Musaraigne_indeeterminee	263	0	1
8	6	Suburban	Musaraigne_indeeterminee	274	0	1
8	6	Suburban	Souris_domestique	174	0	1
9	12	Suburban	Merle_noir	121	1	0
9	12	Suburban	Merle_noir	121	1	0
9	12	Suburban	Merle_noir	122	1	0
9	12	Suburban	Merle_noir	158	1	0
9	12	Suburban	Merle_noir	161	1	0
9	12	Suburban	Merle_noir	179	1	0
9	12	Suburban	Merle_noir	196	1	0
9	12	Suburban	Merle_noir	199	1	0
9	12	Suburban	Merle_noir	199	1	0
9	12	Suburban	Merle_noir	200	1	0
9	12	Suburban	Mesange_charbonniere	186	1	0
9	12	Suburban	Musaraigne_carrelet	238	0	1
9	12	Suburban	Musaraigne_non_identifiee	127	0	1
9	12	Suburban	Musaraigne_non_identifiee	158	0	1
9	12	Suburban	Musaraigne_non_identifiee	167	0	1
9	12	Suburban	Musaraigne_non_identifiee	153	0	1
9	12	Suburban	Musaraigne_non_identifiee	189	0	1
9	12	Suburban	Musaraigne_pygmee	188	0	1
9	12	Suburban	Oiseau_non_identifie	158	0	0
9	12	Suburban	Rat_surmulot	24	0	0
9	12	Suburban	Rouge-gorge	82	1	0
9	12	Suburban	Rouge-queue_noir	151	1	0
9	12	Suburban	Rouge-queue_noir	152	1	0
9	12	Suburban	Rouge-queue_noir	188	1	0
9	12	Suburban	Tourterelle_turque	67	0	0
10	13	Urban	inconnue	2	0	0
10	13	Urban	Petit_rongeur_souris_mulots_campagnols_non_identifie	2	0	1
10	13	Urban	Rat_gris	2	0	0
10	13	Urban	Oiseau_non_identifie	49	0	0
10	13	Urban	Oiseau_non_identifie	49	0	0
11	7	Urban	Mulot_sylvestre	49	0	1
10	1	Urban	Souris_grise	53	0	1
10	1	Urban	Souris_grise	53	0	1
10	13	Urban	Souris_grise	53	0	1
10	13	Urban	Souris_grise	53	0	1
12	14	Urban	Mulot_indeetermine	81	0	1
12	14	Urban	Petit_campagnol_indeetermine	93	0	1
12	14	Urban	Petit_rongeur_souris_mulots_campagnols_non_identifie	150	0	1
12	14	Urban	Musaraigne_non_identifiee	156	0	1
12	14	Urban	Petit_rongeur_souris_mulots_campagnols_non_identifie	161	0	1
10	13	Urban	Mesange_noire	170	1	0

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10	13	Urban	Souris_grise	170	0	1
10	13	Urban	Souris_grise	170	0	1
10	1	Urban	libellule	171	0	0
10	13	Urban	Souris_grise	174	0	1
12	14	Urban	Souris_grise	211	0	1
10	13	Urban	Rat	227	0	0
10	13	Urban	Rat	227	0	0
11	7	Urban	Crapaud_commun	232	0	0
11	7	Urban	grande_sauterelle_verte	232	0	0
11	7	Urban	papillon_de_nuit_espece_inconnue	232	0	0
11	7	Urban	Araignee_sp	252	0	0
11	7	Urban	Papillon_de_nuit	252	0	0
12	14	Urban	Petit_rongeur_souris_mulots_campagnols_non_identifie	273	0	1
12	14	Urban	Petit_rongeur_souris_mulots_campagnols_non_identifie	273	0	1
12	14	Urban	Mesange_non_identifiee	330	1	0
12	14	Urban	Petit_rongeur_souris_mulots_campagnols_non_identifie	330	0	1

Supplementary Table S4 - Raw data from the RD-MKDE analysis

catID	sex	age	c_age	Owner	hab	COR	mo	date	nfix	day	dateJ	RD	Easting	Northing
1	f	4	less_5_yrs_old	BARTHOMEUF	suburban	112_211	feb	12/02/2016	574	3	42	0.71	573160.3	135908.4
1	f	4	less_5_yrs_old	BARTHOMEUF	suburban	112_211	mar	11/03/2016	1225	2	70	1.27	573160.8	135914.1
1	f	4	less_5_yrs_old	BARTHOMEUF	suburban	112_211	apr	08/04/2016	731	2	98	0.85	573158.0	135910.0
1	f	4	less_5_yrs_old	BARTHOMEUF	suburban	112_211	may	13/05/2016	897	2	133	0.64	573162.1	135909.2
1	f	4	less_5_yrs_old	BARTHOMEUF	suburban	112_211	jun	11/06/2016	948	2	162	1.16	573155.5	135908.3
1	f	4	less_5_yrs_old	BARTHOMEUF	suburban	112_211	jul	14/07/2016	1576	2.5	195	0.83	573155.3	135915.7
1	f	4	less_5_yrs_old	BARTHOMEUF	suburban	112_211	aug	11/08/2016	1487	2	223	0.85	573156.3	135918.7
1	f	4	less_5_yrs_old	BARTHOMEUF	suburban	112_211	sep	16/09/2016	678	2	259	1.01	573161.7	135913.6
1	f	4	less_5_yrs_old	BARTHOMEUF	suburban	112_211	oct	07/10/2016	746	2	280	0.94	573161.6	135907.7
2	f	3	less_5_yrs_old	BONJEAN	rural	231_311	mar	15/03/2016	1260	2.3	74	4.37	466914.2	186523.9
2	f	3	less_5_yrs_old	BONJEAN	rural	231_311	apr	10/04/2016	614	2	100	4.14	466938.5	186519.7
2	f	3	less_5_yrs_old	BONJEAN	rural	231_311	may	10/05/2016	451	1.3	130	5.22	466942.3	186505.3
2	f	3	less_5_yrs_old	BONJEAN	rural	231_311	jun	15/06/2016	1039	2.5	166	5.71	466920.4	186519.7
2	f	3	less_5_yrs_old	BONJEAN	rural	231_311	jul	08/07/2016	749	0.7	189	4.85	466897.3	186521.0
2	f	3	less_5_yrs_old	BONJEAN	rural	231_311	aug	10/08/2016	2182	2	222	3.89	466963.9	186466.2
2	f	3	less_5_yrs_old	BONJEAN	rural	231_311	sep	10/09/2016	500	1	253	2.43	466966.3	186450.3
2	f	3	less_5_yrs_old	BONJEAN	rural	231_311	oct	20/10/2016	254	0.3	293	1.98	466942.2	186489.8
3	m	5	above_5_yrs_old	BONJEAN	rural	231_311	mar	09/03/2016	1072	1.7	68	6.90	467070.7	186428.2
3	m	5	above_5_yrs_old	BONJEAN	rural	231_311	apr	07/04/2016	920	1.3	97	8.84	467024.6	186455.2
3	m	5	above_5_yrs_old	BONJEAN	rural	231_311	may	08/05/2016	1270	1.7	128	5.03	467028.6	186427.8
3	m	5	above_5_yrs_old	BONJEAN	rural	231_311	jun	09/06/2016	1516	2	160	4.64	467050.4	186428.5
3	m	5	above_5_yrs_old	BONJEAN	rural	231_311	jul	14/07/2016	2764	2.5	195	4.62	467051.4	186422.5
3	m	5	above_5_yrs_old	BONJEAN	rural	231_311	aug	10/08/2016	1601	2	222	5.81	467061.5	186418.9
3	m	5	above_5_yrs_old	BONJEAN	rural	231_311	sep	07/09/2016	956	2	250	5.97	466992.1	186519.7
3	m	5	above_5_yrs_old	BONJEAN	rural	231_311	oct	11/10/2016	1007	1.5	284	8.09	467015.1	186558.3
4	f	5	above_5_yrs_old	BONJEAN	rural	231_311	mar	27/03/2016	1395	2	86	3.61	460512.4	188361.9
4	f	5	above_5_yrs_old	BONJEAN	rural	231_311	apr	13/04/2016	3454	4	103	4.22	460512.9	188358.2
4	f	5	above_5_yrs_old	BONJEAN	rural	231_311	may	14/05/2016	2044	2	134	2.70	460517.2	188353.6
4	f	5	above_5_yrs_old	BONJEAN	rural	231_311	jun	15/06/2016	1770	1.75	166	2.32	460532.7	188352.2
4	f	5	above_5_yrs_old	BONJEAN	rural	231_311	jul	14/07/2016	851	1	195	2.07	460522.6	188378.2
4	f	5	above_5_yrs_old	BONJEAN	rural	231_311	aug	06/08/2016	2416	3	218	2.93	460526.1	188363.9
4	f	5	above_5_yrs_old	BONJEAN	rural	231_311	sep	11/09/2016	1893	1.5	254	4.55	460520.1	188355.7
4	f	5	above_5_yrs_old	BONJEAN	rural	231_311	oct	17/10/2016	1648	2	290	3.49	460495.7	188397.1
5	f	5	above_5_yrs_old	CALVAS	urban	112_-	jan	09/01/2016	282	1.5	8	2.13	603848.4	122881.3
5	f	5	above_5_yrs_old	CALVAS	urban	112_-	feb	05/02/2016	457	1.7	35	1.88	603867.1	122892.4
5	f	5	above_5_yrs_old	CALVAS	urban	112_-	mar	05/03/2016	358	2.5	64	1.49	603847.7	122885.4
5	f	5	above_5_yrs_old	CALVAS	urban	112_-	apr	02/04/2016	1171	2	92	1.62	603863.7	122884.2
5	f	5	above_5_yrs_old	CALVAS	urban	112_-	may	14/05/2016	717	2	134	2.13	603853.0	122865.2
5	f	5	above_5_yrs_old	CALVAS	urban	112_-	jun	11/06/2016	719	1.5	162	1.49	603864.8	122873.1
6	m	6	above_5_yrs_old	CHAPDELAINE	suburban	112_211	jan	07/01/2016	916	2	6	1.46	590821.6	99133.73
6	m	6	above_5_yrs_old	CHAPDELAINE	suburban	112_211	feb	07/02/2016	1345	2	37	1.12	590813.6	99133.87
6	m	6	above_5_yrs_old	CHAPDELAINE	suburban	112_211	mar	06/03/2016	1447	2	65	1.61	590818.7	99150.57
6	m	6	above_5_yrs_old	CHAPDELAINE	suburban	112_211	apr	12/04/2016	929	2	102	1.52	590831.9	99153.97
6	m	6	above_5_yrs_old	CHAPDELAINE	suburban	112_211	may	07/05/2016	1296	2	127	1.89	590833.9	99157.06
6	m	6	above_5_yrs_old	CHAPDELAINE	suburban	112_211	jun	10/06/2016	1107	1.5	161	2.42	590846.7	99167.51
6	m	6	above_5_yrs_old	CHAPDELAINE	suburban	112_211	jul	11/07/2016	741	2	192	3.37	590841.3	99166.81
6	m	6	above_5_yrs_old	CHAPDELAINE	suburban	112_211	sep	12/09/2016	1411	2	255	1.85	590821.5	99145.67
6	m	6	above_5_yrs_old	CHAPDELAINE	suburban	112_211	oct	11/10/2016	1194	3	284	1.81	590828.0	99142.28
7	m	6	above_5_yrs_old	CLEMENT	suburban	112_313	jan	05/01/2016	491	2	4	3.61	608875.4	80878.30
7	m	6	above_5_yrs_old	CLEMENT	suburban	112_313	feb	05/02/2016	665	2.5	35	4.87	608884.2	80872.39
7	m	6	above_5_yrs_old	CLEMENT	suburban	112_313	mar	15/03/2016	866	2	74	5.77	608851.6	80835.83
7	m	6	above_5_yrs_old	CLEMENT	suburban	112_313	apr	06/04/2016	1081	2	96	4.80	608876.7	80869.97
7	m	6	above_5_yrs_old	CLEMENT	suburban	112_313	may	06/05/2016	1089	2	126	6.61	608800.1	80837.15
7	m	6	above_5_yrs_old	CLEMENT	suburban	112_313	jun	08/06/2016	1301	2	159	4.82	608883.8	80886.49
7	m	6	above_5_yrs_old	CLEMENT	suburban	112_313	jul	05/07/2016	1540	2	186	3.74	608897.1	80890.56
7	m	6	above_5_yrs_old	CLEMENT	suburban	112_313	aug	07/08/2016	1667	2	219	2.78	608907.4	80889.37
7	m	6	above_5_yrs_old	CLEMENT	suburban	112_313	sep	08/09/2016	1244	2	251	2.99	608903.0	80884.68
8	NA	NA	NA	COINTREAU	suburban	112_311	jan	10/01/2016	1095	2	9	1.07	548719.5	125293.6
8	NA	NA	NA	COINTREAU	suburban	112_311	feb	06/02/2016	1126	2	36	0.93	548718.8	125296.2
8	NA	NA	NA	COINTREAU	suburban	112_311	mar	09/03/2016	1363	2	68	1.44	548716.8	125297.2
8	NA	NA	NA	COINTREAU	suburban	112_311	apr	08/04/2016	1138	2	98	1.21	548717.4	125298.6
8	NA	NA	NA	COINTREAU	suburban	112_311	may	14/05/2016	1470	2.5	134	2.37	548713.5	125295.1
8	NA	NA	NA	COINTREAU	suburban	112_311	jun	15/06/2016	818	2	166	2.35	548701.3	125309.2
9	m	10	above_5_yrs_old	COINTREAU	suburban	112_311	jan	05/01/2016	1521	2	4	0.75	548725.0	125293.9
9	m	10	above_5_yrs_old	COINTREAU	suburban	112_311	feb	01/02/2016	1959	2	31	0.67	548726.6	125293.1
9	m	10	above_5_yrs_old	COINTREAU	suburban	112_311	mar	06/03/2016	1733	2	65	0.74	548726.7	125293.6
9	m	10	above_5_yrs_old	COINTREAU	suburban	112_311	apr	13/04/2016	1737	2	103	0.99	548726.7	125291.6
9	m	10	above_5_yrs_old	COINTREAU	suburban	112_311	may	17/05/2016	1470	2	137	0.88	548723.9	125293.0
9	m	10	above_5_yrs_old	COINTREAU	suburban	112_311	jun	07/06/2016	1697	2	158	0.67	548723.8	125292.3
9	m	10	above_5_yrs_old	COINTREAU	suburban	112_311	jul	12/07/2016	1513	2	193	1.22	548724.7	125292.0
9	m	10	above_5_yrs_old	COINTREAU	suburban	112_311	sep	07/09/2016	1609	2	250	1.25	548722.5	125295.3
9	m	10	above_5_yrs_old	COINTREAU	suburban	112_311	oct	12/10/2016	1788	2	285	0.80	548726.4	125293.3
10	f	NA	NA	COURCOUX	urban	112_211	feb	12/02/2016	703	2	42	1.79	594592.1	134379.5
10	f	NA	NA	COURCOUX	urban	112_211	mar	11/03/2016	453	2	70	0.68	594597.2	134351.2
10	f	NA	NA	COURCOUX	urban	112_211	apr	16/04/2016	697	2	106	1.01	594600.4	134356.0
10	f	NA	NA	COURCOUX	urban	112_211	may	18/05/2016	596	2	138	0.80	594595.3	134351.7
10	f	NA	NA	COURCOUX	urban	112_211	jun	16/06/2016	362	1.5	167	1.88	594626.2	134315.1
10	f	NA	NA	COURCOUX	urban	1								

Supplemental information to GPS-based seasonal home ranges of neutered pet cats *Felis catus* in a gradient of habitat
 Pisani, B., Pavisse, R., Clergeau, P. - *Hystrix, the Italian Journal of Mammalogy* doi:10.4404/hystrix-31.2-00270-2019

11	m	2	less_5_yrs_old	DEVES	suburban	112_231	feb	08/02/2016	1923	2	38	2.53	577088.6	137815.4
11	m	2	less_5_yrs_old	DEVES	suburban	112_231	mar	13/03/2016	2154	2	72	3.39	577118.9	137796.7
11	m	2	less_5_yrs_old	DEVES	suburban	112_231	apr	05/04/2016	1812	3	95	3.10	577105.8	137797.5
11	m	2	less_5_yrs_old	DEVES	suburban	112_231	may	18/05/2016	1805	2	138	1.88	577086.6	137826.9
11	m	2	less_5_yrs_old	DEVES	suburban	112_231	jun	11/06/2016	1909	2	162	2.16	577084.0	137804.2
12	m	2	less_5_yrs_old	DUBOIS	urban	112_141	jan	06/01/2016	1852	1.5	5	1.87	608565.5	105707.5
12	m	2	less_5_yrs_old	DUBOIS	urban	112_141	feb	06/02/2016	1816	2	36	1.10	608564.7	105709.6
12	m	2	less_5_yrs_old	DUBOIS	urban	112_141	mar	06/03/2016	2251	2	65	1.03	608563.8	105705.5
12	m	2	less_5_yrs_old	DUBOIS	urban	112_141	apr	10/04/2016	2647	2.5	100	1.02	608564.3	105705.5
12	m	2	less_5_yrs_old	DUBOIS	urban	112_141	may	08/05/2016	2423	2.5	128	1.20	608562.9	105698.0
12	m	2	less_5_yrs_old	DUBOIS	urban	112_141	jun	09/06/2016	1288	1.5	160	1.45	608555.8	105701.6
12	m	2	less_5_yrs_old	DUBOIS	urban	112_141	jul	13/07/2016	1636	2.3	194	1.10	608559.7	105697.0
12	m	2	less_5_yrs_old	DUBOIS	urban	112_141	aug	21/08/2016	1988	2	233	1.22	608555.0	105691.8
13	m	8	above_5_yrs_old	FLANDIN	urban	112_141	jan	02/01/2016	902	8.5	1	1.37	595742.2	119079.2
13	m	8	above_5_yrs_old	FLANDIN	urban	112_141	feb	06/02/2016	337	2	36	2.39	595744.1	119072.5
13	m	8	above_5_yrs_old	FLANDIN	urban	112_141	mar	12/03/2016	761	2	71	1.27	595744.1	119072.4
13	m	8	above_5_yrs_old	FLANDIN	urban	112_141	apr	08/04/2016	925	2.5	98	1.21	595742.9	119079.6
13	m	8	above_5_yrs_old	FLANDIN	urban	112_141	may	14/05/2016	562	2.5	134	1.86	595737.5	119074.4
13	m	8	above_5_yrs_old	FLANDIN	urban	112_141	jun	18/06/2016	977	2	169	1.52	595739.1	119076.5
13	m	8	above_5_yrs_old	FLANDIN	urban	112_141	jul	16/07/2016	753	1.5	197	1.78	595737.1	119073.6
13	m	8	above_5_yrs_old	FLANDIN	urban	112_141	aug	13/08/2016	952	2	225	3.29	595740.0	119079.7
13	m	8	above_5_yrs_old	FLANDIN	urban	112_141	sep	17/09/2016	397	1.3	260	0.76	595736.6	119073.3
13	m	8	above_5_yrs_old	FLANDIN	urban	112_141	oct	22/10/2016	283	2	295	1.05	595734.3	119073.8
13	m	8	above_5_yrs_old	FLANDIN	urban	112_141	nov	19/11/2016	196	1.5	323	1.31	595735.9	119068.2
14	f	14	above_5_yrs_old	FROGER	urban	112_	jan	10/01/2016	314	2	9	1.35	612033.4	128034.1
14	f	14	above_5_yrs_old	FROGER	urban	112_	feb	08/02/2016	400	2	38	0.92	612032.2	128034.5
14	f	14	above_5_yrs_old	FROGER	urban	112_	mar	07/03/2016	577	1.5	66	1.19	612030.5	128035.3
14	f	14	above_5_yrs_old	FROGER	urban	112_	apr	06/04/2016	556	2	96	0.73	612026.1	128040.6
14	f	14	above_5_yrs_old	FROGER	urban	112_	may	10/05/2016	799	2	130	1.02	612021.7	128047.5
14	f	14	above_5_yrs_old	FROGER	urban	112_	jun	08/06/2016	1161	1.5	159	0.49	612028.2	128038.3
14	f	14	above_5_yrs_old	FROGER	urban	112_	jul	05/07/2016	953	1.5	186	0.82	612027.7	128039.8
14	f	14	above_5_yrs_old	FROGER	urban	112_	aug	10/08/2016	1774	2.5	222	0.55	612028.3	128035.5
14	f	14	above_5_yrs_old	FROGER	urban	112_	sep	15/09/2016	838	3	258	0.58	612028.1	128036.7
14	f	14	above_5_yrs_old	FROGER	urban	112_	oct	10/10/2016	1669	2	283	1.88	612039.7	128038.6
15	f	4	less_5_yrs_old	GOURMAUD	urban	112_	jan	11/01/2016	185	5	10	0.75	594534.5	122798.7
15	f	4	less_5_yrs_old	GOURMAUD	urban	112_	feb	03/02/2016	361	3	33	0.78	594534.4	122804.7
15	f	4	less_5_yrs_old	GOURMAUD	urban	112_	mar	02/03/2016	200	2	61	0.73	594539.5	122812.1
15	f	4	less_5_yrs_old	GOURMAUD	urban	112_	apr	08/04/2016	846	4	98	0.70	594537.1	122805.5
15	f	4	less_5_yrs_old	GOURMAUD	urban	112_	jun	19/06/2016	1590	3.3	170	0.69	594529.5	122794.3
16	m	NA	NA	GUILLEMOT	urban	112_	jan	10/01/2016	1273	2.5	9	1.06	609386.3	128336.2
16	m	NA	NA	GUILLEMOT	urban	112_	feb	07/02/2016	891	2	37	1.51	609390.1	128344.8
16	m	NA	NA	GUILLEMOT	urban	112_	mar	13/03/2016	1224	2	72	1.21	609390.2	128337.1
16	m	NA	NA	GUILLEMOT	urban	112_	apr	09/04/2016	1359	2	99	1.08	609389.7	128342.3
16	m	NA	NA	GUILLEMOT	urban	112_	may	12/05/2016	1470	2	132	0.92	609394.5	128345.1
16	m	NA	NA	GUILLEMOT	urban	112_	jun	18/06/2016	622	1	169	1.10	609395.5	128348.6
16	m	NA	NA	GUILLEMOT	urban	112_	jul	14/07/2016	1412	2	195	1.21	609390.2	128350.7
16	m	NA	NA	GUILLEMOT	urban	112_	aug	15/08/2016	818	2	227	0.88	609392.4	128348.8
16	m	NA	NA	GUILLEMOT	urban	112_	sep	26/09/2016	1155	2	269	1.04	609387.3	128343.4
16	m	NA	NA	GUILLEMOT	urban	112_	oct	16/10/2016	1008	2	289	1.89	609392.1	128347.5
17	f	2	less_5_yrs_old	LACHENAUD	suburban	112_311	jan	07/01/2016	1345	2.5	6	1.60	592695.9	122841.2
17	f	2	less_5_yrs_old	LACHENAUD	suburban	112_311	feb	08/02/2016	689	2	38	3.87	592678.5	122842.1
17	f	2	less_5_yrs_old	LACHENAUD	suburban	112_311	mar	10/03/2016	839	2	69	2.26	592668.2	122834.5
17	f	2	less_5_yrs_old	LACHENAUD	suburban	112_311	apr	05/04/2016	781	2.5	95	9.35	592601.3	122783.9
17	f	2	less_5_yrs_old	LACHENAUD	suburban	112_311	may	05/05/2016	581	1.5	125	6.91	592660.9	122826.9
17	f	2	less_5_yrs_old	LACHENAUD	suburban	112_311	jun	06/06/2016	703	2	157	2.14	592670.3	122836.6
17	f	2	less_5_yrs_old	LACHENAUD	suburban	112_311	jul	07/07/2016	457	2.5	188	2.90	592682.5	122834.2
17	f	2	less_5_yrs_old	LACHENAUD	suburban	112_311	aug	06/08/2016	492	2	218	2.34	592661.5	122829.6
17	f	2	less_5_yrs_old	LACHENAUD	suburban	112_311	sep	07/09/2016	532	2.5	250	6.65	592660.5	122825.9
17	f	2	less_5_yrs_old	LACHENAUD	suburban	112_311	oct	05/10/2016	388	1.7	278	1.48	592666.1	122831.3
18	f	7	above_5_yrs_old	LE_CREFF	urban	112_111	jan	12/01/2016	1137	1.5	11	2.95	555013.9	143042.8
18	f	7	above_5_yrs_old	LE_CREFF	urban	112_111	feb	14/02/2016	1170	1.3	44	2.84	555003.7	143054.3
18	f	7	above_5_yrs_old	LE_CREFF	urban	112_111	mar	14/03/2016	975	2	73	2.06	555008.6	143033.4
18	f	7	above_5_yrs_old	LE_CREFF	urban	112_111	apr	12/04/2016	1636	2.5	102	2.51	554997.9	143045.6
18	f	7	above_5_yrs_old	LE_CREFF	urban	112_111	may	03/07/2016	4347	17	184	1.53	555000.6	143028.6
18	f	7	above_5_yrs_old	LE_CREFF	urban	112_111	aug	16/08/2016	1783	2.3	228	1.53	554986.6	143032.0
18	f	7	above_5_yrs_old	LE_CREFF	urban	112_111	sep	13/09/2016	1171	1.5	256	1.43	554985.5	143038.7
18	f	7	above_5_yrs_old	LE_CREFF	urban	112_111	oct	10/10/2016	1767	1.5	283	1.84	554997.7	143028.9
19	f	4	less_5_yrs_old	MAHUT	rural	211_112	jan	09/01/2016	398	1.3	8	1.70	562538.3	131050.2
19	f	4	less_5_yrs_old	MAHUT	rural	211_112	feb	13/02/2016	502	2	43	0.68	562539.4	131054.3
19	f	4	less_5_yrs_old	MAHUT	rural	211_112	mar	11/03/2016	612	2	70	0.52	562541.3	131054.8
19	f	4	less_5_yrs_old	MAHUT	rural	211_112	apr	16/04/2016	773	2	106	0.81	562542.8	131056.2
19	f	4	less_5_yrs_old	MAHUT	rural	211_112	may	07/05/2016	759	2	127	1.05	562542.1	131052.5
20	f	NA	NA	MATRAY_a	rural	211_311	mar	15/03/2016	355	2	74	2.07	630407.4	69136.78
20	f	NA	NA	MATRAY_a	rural	211_311	apr	18/04/2016	435	0.5	108	5.20	630424.6	69146.08
20	f	NA	NA	MATRAY_a	rural	211_311	may	14/05/2016	228	0.3	134	2.44	630400.2	69159.53
20	f	NA	NA	MATRAY_a	rural	211_311	jun	07/06/2016	1654	3	158	1.93	630407.9	69126.38
20	f	NA	NA	MATRAY_a	rural	211_311	jul	05/07/2016	1572	2.5	186	2.13	630416.1	69127.53
20	f	NA	NA	MATRAY_a	rural	211_311	aug	03/08/2016	1343	2.3	215	3.76	630420.8	69125.30
20	f	NA	NA	MATRAY_a	rural	211_311	sep	13/09/2016	1670</td					

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21	m	6	above_5_yrs_old	MATRAY_b	rural	112_311	sep	11/09/2016	633	1.5	254	5.94	632660.8	78071.64
21	m	6	above_5_yrs_old	MATRAY_b	rural	112_311	oct	10/10/2016	628	1.5	283	8.07	632676.9	78074.04
22	m	14	above_5_yrs_old	MATRAY_c	rural	112_311	feb	06/02/2016	902	1.3	36	1.66	630342.3	70846.78
22	m	14	above_5_yrs_old	MATRAY_c	rural	112_311	mar	09/03/2016	730	2.5	68	1.77	630347.1	70843.96
22	m	14	above_5_yrs_old	MATRAY_c	rural	112_311	apr	07/04/2016	1201	5.3	97	2.13	630342.4	70849.08
22	m	14	above_5_yrs_old	MATRAY_c	rural	112_311	may	05/05/2016	456	2.5	125	3.60	630342.3	70846.16
22	m	14	above_5_yrs_old	MATRAY_c	rural	112_311	jun	10/06/2016	835	2.5	161	0.81	630340.4	70848.02
22	m	14	above_5_yrs_old	MATRAY_c	rural	112_311	sep	19/09/2016	1701	3	262	1.53	630342.7	70845.91
22	m	14	above_5_yrs_old	MATRAY_c	rural	112_311	oct	21/10/2016	1132	2.5	294	1.30	630337.3	70844.44
22	m	14	above_5_yrs_old	MATRAY_c	rural	112_311	nov	06/11/2016	955	1.3	310	1.54	630341.2	70849.68
23	f	NA	NA	MOUSTEY	suburban	112_311	jan	06/01/2016	82	2	5	2.53	585534.7	121844.1
23	f	NA	NA	MOUSTEY	suburban	112_311	feb	09/02/2016	193	2	39	1.36	585521.1	121849.6
23	f	NA	NA	MOUSTEY	suburban	112_311	mar	14/03/2016	100	1.8	73	0.91	585518.7	121841.6
23	f	NA	NA	MOUSTEY	suburban	112_311	apr	05/04/2016	234	2	95	1.73	585524.7	121845.5
23	f	NA	NA	MOUSTEY	suburban	112_311	may	16/05/2016	480	6	136	1.88	585518.6	121851.2
23	f	NA	NA	MOUSTEY	suburban	112_311	jun	06/06/2016	173	2	157	1.76	585522.6	121848.3
23	f	NA	NA	MOUSTEY	suburban	112_311	jul	04/07/2016	438	2	185	1.18	585513.9	121847.4
23	f	NA	NA	MOUSTEY	suburban	112_311	aug	22/08/2016	216	2	234	0.75	585517.1	121846.4
23	f	NA	NA	MOUSTEY	suburban	112_311	sep	14/09/2016	196	2	257	1.08	585522.4	121847.8
23	f	NA	NA	MOUSTEY	suburban	112_311	oct	12/10/2016	465	2.3	285	1.05	585521.2	121849.4
24	f	3	less_5_yrs_old	OZANNE	suburban	112_311	jan	09/01/2016	594	2.2	8	1.10	587238.8	122219.8
24	f	3	less_5_yrs_old	OZANNE	suburban	112_311	feb	06/02/2016	861	2	36	1.31	587242.1	12221.8
24	f	3	less_5_yrs_old	OZANNE	suburban	112_311	mar	11/03/2016	933	2	70	1.05	587241.8	122215.4
24	f	3	less_5_yrs_old	OZANNE	suburban	112_311	apr	10/04/2016	971	2	100	1.30	587242.4	122214.1
24	f	3	less_5_yrs_old	OZANNE	suburban	112_311	may	05/05/2016	1080	2	125	1.16	587241.3	122221.3
24	f	3	less_5_yrs_old	OZANNE	suburban	112_311	jun	09/06/2016	1050	2	160	1.82	587244.1	122214.9
24	f	3	less_5_yrs_old	OZANNE	suburban	112_311	jul	09/07/2016	1167	2	190	1.16	587247.6	12220.1
24	f	3	less_5_yrs_old	OZANNE	suburban	112_311	aug	28/08/2016	705	2	240	1.90	587242.8	122221.5
24	f	3	less_5_yrs_old	OZANNE	suburban	112_311	sep	18/09/2016	658	2	261	1.47	587243.1	122217.6
24	f	3	less_5_yrs_old	OZANNE	suburban	112_311	oct	15/10/2016	1103	2	288	1.14	587242.2	122217.7
25	f	2	less_5_yrs_old	PARMENTIER	rural	112_311	feb	06/02/2016	529	1.7	36	1.16	584843.1	93970.20
25	f	2	less_5_yrs_old	PARMENTIER	rural	112_311	mar	05/03/2016	935	9	64	1.23	584847.5	93970.58
25	f	2	less_5_yrs_old	PARMENTIER	rural	112_311	may	01/05/2016	1408	6.2	121	1.42	584844.8	93969.08
25	f	2	less_5_yrs_old	PARMENTIER	rural	112_311	aug	23/08/2016	1495	2	235	0.96	584834.6	93977.29
25	f	2	less_5_yrs_old	PARMENTIER	rural	112_311	sep	10/09/2016	1721	2	253	1.06	584839.1	93972.99
25	f	2	less_5_yrs_old	PARMENTIER	rural	112_311	oct	16/10/2016	705	2	289	1.13	584832.4	93974.24
26	f	6	above_5_yrs_old	PEIRAZEAU	urban	112_111	jan	09/01/2016	247	1.5	8	2.25	597519.8	123512.0
26	f	6	above_5_yrs_old	PEIRAZEAU	urban	112_111	feb	06/02/2016	265	1.3	36	2.37	597511.1	123509.4
26	f	6	above_5_yrs_old	PEIRAZEAU	urban	112_111	mar	19/03/2016	216	1.5	78	1.22	597506.8	123507.6
26	f	6	above_5_yrs_old	PEIRAZEAU	urban	112_111	apr	10/04/2016	566	2.5	100	4.82	597516.2	123538.8
26	f	6	above_5_yrs_old	PEIRAZEAU	urban	112_111	may	07/05/2016	702	1.3	127	3.76	597513.6	123515.3
26	f	6	above_5_yrs_old	PEIRAZEAU	urban	112_111	jun	19/06/2016	571	1.5	170	3.17	597503.1	123512.3
26	f	6	above_5_yrs_old	PEIRAZEAU	urban	112_111	sep	24/09/2016	976	1.2	267	3.81	597498.8	123496.7
27	f	NA	NA	PEYRICHOU	urban	112_114	feb	05/02/2016	375	2	35	0.93	608386.8	128136.6
27	f	NA	NA	PEYRICHOU	urban	112_114	mar	13/03/2016	631	2	72	1.19	608385.5	128130.3
27	f	NA	NA	PEYRICHOU	urban	112_114	apr	11/04/2016	710	2	101	1.19	608386.8	128131.1
27	f	NA	NA	PEYRICHOU	urban	112_114	may	18/05/2016	1026	2	138	1.01	608386.5	128134.8
27	f	NA	NA	PEYRICHOU	urban	112_114	jun	17/06/2016	544	2	168	0.86	608388.3	128135.3
27	f	NA	NA	PEYRICHOU	urban	112_114	aug	26/08/2016	1596	2	238	1.27	608384.9	128133.0
27	f	NA	NA	PEYRICHOU	urban	112_114	sep	19/09/2016	271	1	262	1.92	608412.2	128139.7
27	f	NA	NA	PEYRICHOU	urban	112_114	oct	15/10/2016	264	1.3	288	0.96	608383.1	128124.9
28	m	5	above_5_yrs_old	RICCI	urban	112_142	jan	16/01/2016	1091	1.5	15	0.60	614152.3	113743.1
28	m	5	above_5_yrs_old	RICCI	urban	112_142	feb	06/02/2016	682	2	36	0.96	614154.5	113743.7
28	m	5	above_5_yrs_old	RICCI	urban	112_142	mar	13/03/2016	1493	2	72	1.01	614151.2	113742.6
28	m	5	above_5_yrs_old	RICCI	urban	112_142	apr	09/04/2016	1613	2	99	0.91	614154.4	113743.7
28	m	5	above_5_yrs_old	RICCI	urban	112_142	may	07/05/2016	1371	1.5	127	0.62	614151.7	113744.4
28	m	5	above_5_yrs_old	RICCI	urban	112_142	jun	13/06/2016	1382	1.5	164	0.97	614149.8	113745.0
28	m	5	above_5_yrs_old	RICCI	urban	112_142	jul	15/07/2016	1235	2	196	1.10	614156.3	113743.8
28	m	5	above_5_yrs_old	RICCI	urban	112_142	aug	22/08/2016	1404	1.5	234	0.71	614156.1	113743.9
29	m	3	less_5_yrs_old	RUSSIER	urban	112_111	jan	05/01/2016	767	2	4	1.16	593286.1	124035.2
29	m	3	less_5_yrs_old	RUSSIER	urban	112_111	feb	13/02/2016	912	2	43	0.72	593286.3	124033.2
29	m	3	less_5_yrs_old	RUSSIER	urban	112_111	mar	12/03/2016	742	2	71	1.15	593285.8	124034.4
29	m	3	less_5_yrs_old	RUSSIER	urban	112_111	apr	15/04/2016	1302	2	105	0.66	593288.2	124031.3
29	m	3	less_5_yrs_old	RUSSIER	urban	112_111	may	06/05/2016	2251	2	126	0.46	593287.5	124033.8
29	m	3	less_5_yrs_old	RUSSIER	urban	112_111	jun	17/06/2016	2357	2	168	0.36	593290.1	124033.3
29	m	3	less_5_yrs_old	RUSSIER	urban	112_111	jul	15/07/2016	2497	2	196	0.50	593287.7	124038.0
29	m	3	less_5_yrs_old	RUSSIER	urban	112_111	aug	23/08/2016	2191	2	235	0.72	593287.9	124033.3
29	m	3	less_5_yrs_old	RUSSIER	urban	112_111	sep	15/09/2016	3257	15	258	0.42	593288.2	124033.7
29	m	3	less_5_yrs_old	RUSSIER	urban	112_111	oct	01/10/2016	1301	1	274	0.27	593287.8	124032.8
30	m	NA	NA	VERRET	rural	211_112	jan	08/01/2016	969	4	7	4.53	618037.8	106842.1
30	m	NA	NA	VERRET	rural	211_112	feb	10/02/2016	1330	1.4	40	4.02	618033.2	106863.5
30	m	NA	NA	VERRET	rural	211_112	mar	11/03/2016	942	2	70	79.66	618046.9	106851.3
30	m	NA	NA	VERRET	rural	211_112	apr	12/04/2016	1503	2.3	102	1.55	618034.9	106837.1
30	m	NA	NA	VERRET	rural	211_112	may	19/05/2016	456	1	139	2.04	618048.8	106865.1
30	m	NA	NA	VERRET	rural	211_112	jun	06/06/2016	2008	5.5	157	3.13	618040.1	106861.7
30	m	NA	NA	VERRET	rural	211_112	jul	13/07/2016	1444	2.4	194	3.3	618041.9	106848.7
30	m	NA	NA	VERRET	rural	211_112	aug	10/08/2016	1525	2.5	222	7.86	618063.0	106909.9
30	m	NA	NA	VERRET	rural	211_112	sep	10/09/2016	2066	3	253	5.03	618054.6	106888.9
30	m	NA	NA	VERRET										

Supplementary Figure S5

GAMMs were run using the *bam* function in the *mgcv* package (v. 0.2-5 – Wood 2011). Graphical displays were performed using the *plot_smooth* function in the *itsadug* package (v. 2.3 – van Rij *et al.* 2017), and codes provided in Zuur *et al.* (2009; 2014).

Fig. S5a. Check of the Negative binomial error GAMM model with 184 monthly home ranges from n = 23 aged and sexed cats.

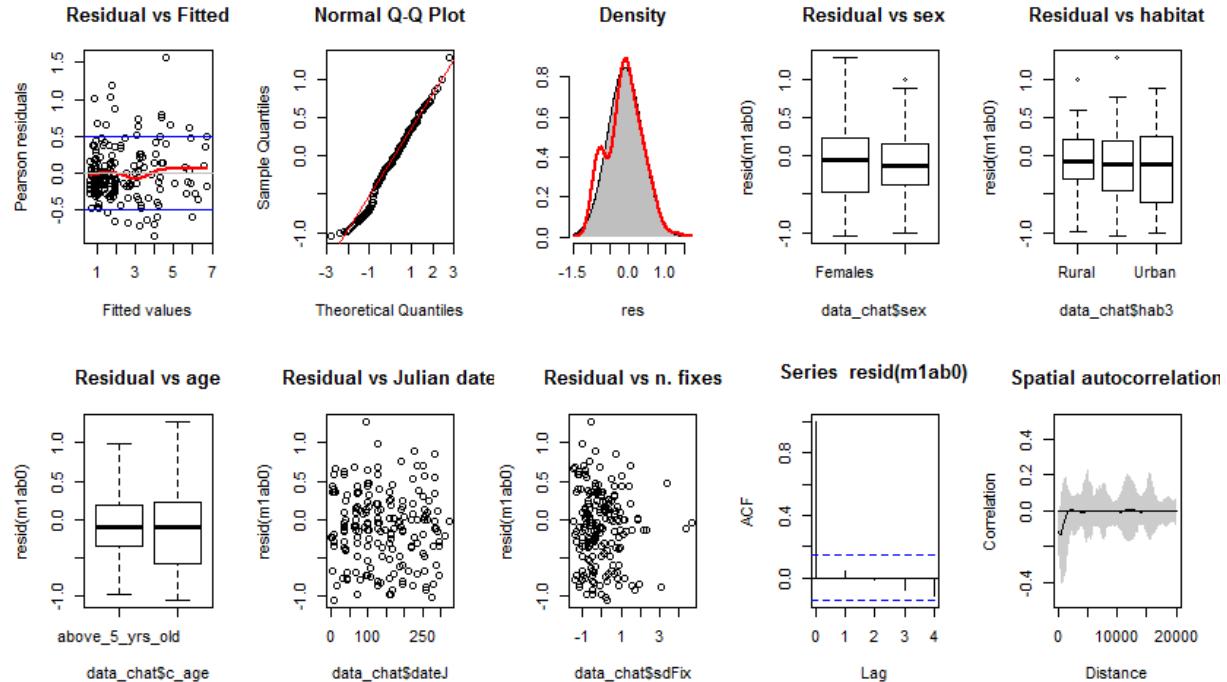
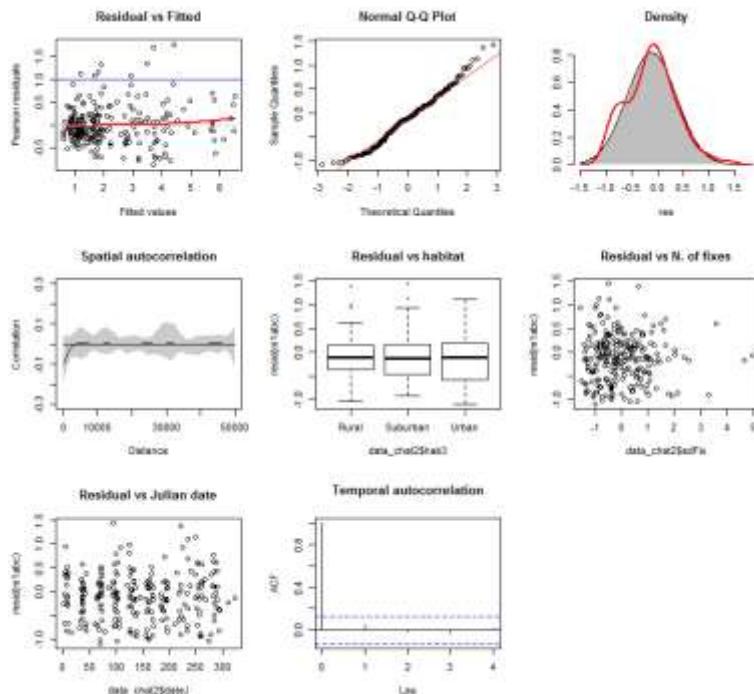


Fig. S5b. Check of the Negative binomial error GAMM model with 244 monthly home ranges from n = 30 neutered cats.



Wood SN. 2011 Fast stable restricted maximum likelihood and marginal likelihood estimation of semiparametric generalized linear models. *J. R. Statist. Soc. B* 73, 3–36. (doi: 10.1111/j.1467-9868.2010.00749.x)

van Rij J, Wieling M, Baayen R and van Rijn H. 2017 itsadug: Interpreting Time Series and Autocorrelated Data Using GAMMs. R package version 2.3. (<https://cran.r-project.org/web/packages/itsadug/index.html>)

Zuur AF, Ieno EN, Walker N, Saveliev A, Smith GM. 2009 Mixed effects models and extensions in ecology with R. Springer New York. 978 pp.
 Zuur AF, Saveliev AA, Ieno EN. 2014 Beginner's Guide to GAM and Gamm with R. Highland Statistics Limited.

(<http://highstat.com/index.php/beginner-s-guide-to-generalized-additive-mixed-models>)

Cat 1

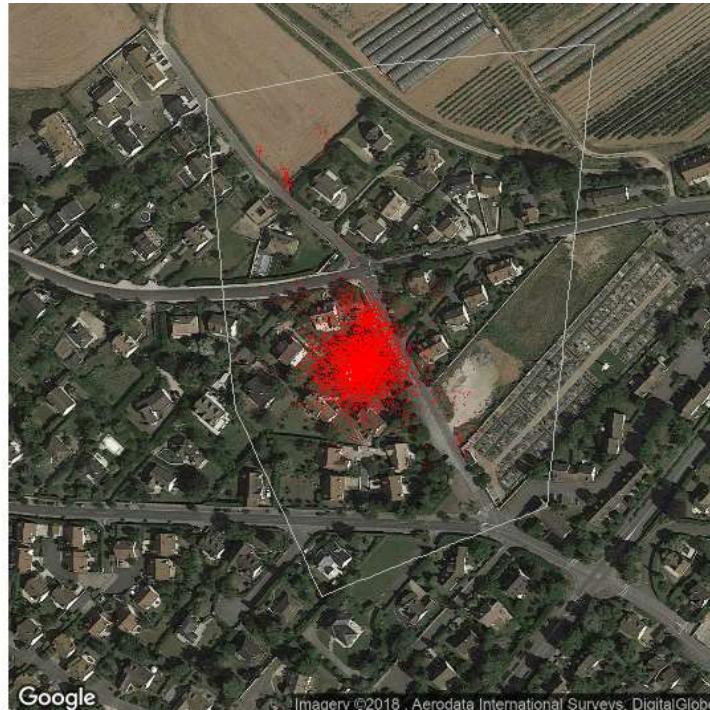
```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id  burst nb.reloc NAs      date.begin      date.end
1 cat1Apr cat1Apr     731 0 2016-04-08 15:04:33 2016-04-10 15:05:17
2 cat1Aug cat1Aug    1487 0 2016-08-11 06:51:22 2016-08-13 06:55:31
3 cat1Feb cat1Feb     574 0 2016-02-12 06:55:34 2016-02-14 06:43:11
4 cat1Jul cat1Jul    1576 0 2016-07-14 13:24:44 2016-07-16 08:13:29
5 cat1Jun cat1Jun     948 0 2016-06-11 05:29:22 2016-06-13 04:32:24
6 cat1Mar cat1Mar    1225 0 2016-03-11 07:47:27 2016-03-13 07:43:11
7 cat1May cat1May     897 0 2016-05-13 05:54:08 2016-05-15 06:44:03
8 cat1Oct cat1Oct     746 0 2016-10-07 06:57:41 2016-10-09 05:28:49
9 cat1Sep cat1Sep     678 0 2016-09-16 08:30:34 2016-09-18 08:39:02

> CAT1_TABLE1
  id  nb  X_mean   Y_mean mean_time max_dist mean_speed
1 cat1Apr 731 573158.0 135910.0       237       81      0.07
2 cat1Aug 1487 573156.3 135918.7       116       69      0.10
3 cat1Feb 574 573160.3 135908.4       300       72      0.05
4 cat1Jul 1576 573155.3 135915.7       98       80      0.12
5 cat1Jun 948 573155.5 135908.3       179      130      0.08
6 cat1Mar 1225 573160.8 135914.1       141       76      0.10
7 cat1May 897 573162.1 135909.2       196       76      0.08
8 cat1Oct 746 573161.6 135907.7       225      128      0.07
9 cat1Sep 678 573161.7 135913.6       256      107      0.06

> (MCP100CAT1df)
      x        y
1049 1.971962 48.92458
7702 1.971606 48.92229
4306 1.969904 48.92185
4383 1.969255 48.92277
4263 1.969175 48.92324
4732 1.969031 48.92431
1068 1.970343 48.92448
10491 1.971962 48.92458
```



Cat 2

```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id  burst nb.reloc NAs      date.begin      date.end
1 cat2Apr cat2Apr     614 0 2016-04-10 14:03:34 2016-04-12 15:48:00
2 cat2Aug cat2Aug    2181 0 2016-08-10 17:39:03 2016-08-12 16:56:17
3 cat2Jul cat2Jul     749 0 2016-07-08 08:35:27 2016-07-09 04:13:42
4 cat2Jun cat2Jun    1039 0 2016-06-15 15:38:33 2016-06-17 00:54:01
5 cat2Mar cat2Mar    1260 0 2016-03-15 07:10:15 2016-03-17 17:38:51
6 cat2May cat2May     451 0 2016-05-10 13:42:56 2016-05-11 20:05:08
7 cat2Oct cat2Oct     254 0 2016-10-20 05:40:41 2016-10-20 10:38:53
8 cat2Sep cat2Sep     500 0 2016-09-10 07:47:04 2016-09-11 09:29:59

> CAT2_TABLE1
   id nb X_mean Y_mean mean_time max_dist mean_speed
1 cat2Apr 614 466938.5 186519.7    292      195     0.09
2 cat2Aug 2181 466963.9 186466.2     78      341     0.25
3 cat2Jul  749 466897.3 186521.0     95      208     0.30
4 cat2Jun 1039 466920.4 186519.7    115      178     0.20
5 cat2Mar 1260 466914.2 186523.9    167      360     0.15
6 cat2May  451 466942.3 186505.3    243      251     0.10
7 cat2Oct  254 466942.2 186489.8     71      111     0.29
8 cat2Sep  500 466966.3 186450.3    186      229     0.12

> (MCP100CAT2df)
      x      y
4643 0.507829 49.36556
716  0.507724 49.36303
6567 0.505667 49.36158
4574 0.502684 49.36165
2158 0.502139 49.36218
2301 0.501738 49.36481
3194 0.502038 49.36523
3751 0.502184 49.36541
3731 0.502260 49.36544
3753 0.502601 49.36560
3746 0.503133 49.36582
539  0.503718 49.36596
3232 0.504842 49.36615
46431 0.507829 49.36556
```



Cat 3

***** List of class ltraj *****

Type of the traject: Type II (time recorded)

* Time zone: GMT *

Irregular traject. Variable time lag between two locs

Characteristics of the bursts:

id	burst	nb.reloc	NAs	date.begin	date.end
1	cat3Apr	cat3Apr	920	0	2016-04-07 17:05:33 2016-04-09 00:27:56
2	cat3Aug	cat3Aug	1601	0	2016-08-10 17:25:52 2016-08-12 16:08:29
3	cat3Jul	cat3Jul	2764	0	2016-07-14 08:11:46 2016-07-17 17:10:36
4	cat3Jun	cat3Jun	1516	0	2016-06-09 08:26:35 2016-06-11 07:10:38
5	cat3Mar	cat3Mar	1072	0	2016-03-09 17:31:57 2016-03-11 13:17:55
6	cat3May	cat3May	1270	0	2016-05-08 13:10:21 2016-05-10 05:52:26
7	cat3Oct	cat3Oct	1007	0	2016-10-11 17:44:12 2016-10-13 05:17:12
8	cat3Sep	cat3Sep	956	0	2016-09-07 07:01:49 2016-09-09 06:46:38

> CAT3_TABLE1

id	nb	X_mean	Y_mean	mean_time	max_dist	mean_speed	
1	cat3Apr	920	467024.6	186455.2	123	287	0.19
2	cat3Aug	1601	467061.5	186418.9	105	222	0.18
3	cat3Jul	2764	467051.4	186422.5	106	117	0.15
4	cat3Jun	1516	467050.4	186428.5	111	220	0.17
5	cat3Mar	1072	467028.7	186428.2	147	121	0.14
6	cat3May	1270	467028.6	186427.8	115	315	0.16
7	cat3Oct	1007	467015.1	186558.3	127	194	0.16
8	cat3Sep	956	466992.1	186519.7	180	154	0.10

> (MCP100CAT3df)

	x	y
10420	0.507703	49.36452
1396	0.509605	49.36206
1401	0.510328	49.36088
1355	0.504444	49.36170
1803	0.502857	49.36207
1088	0.502322	49.36445
10942	0.502424	49.36606
10958	0.502571	49.36629
10955	0.502680	49.36633
9873	0.503172	49.36627
10216	0.505562	49.36562
10031	0.507186	49.36485
795	0.507426	49.36470
104201	0.507703	49.36452



Cat 4

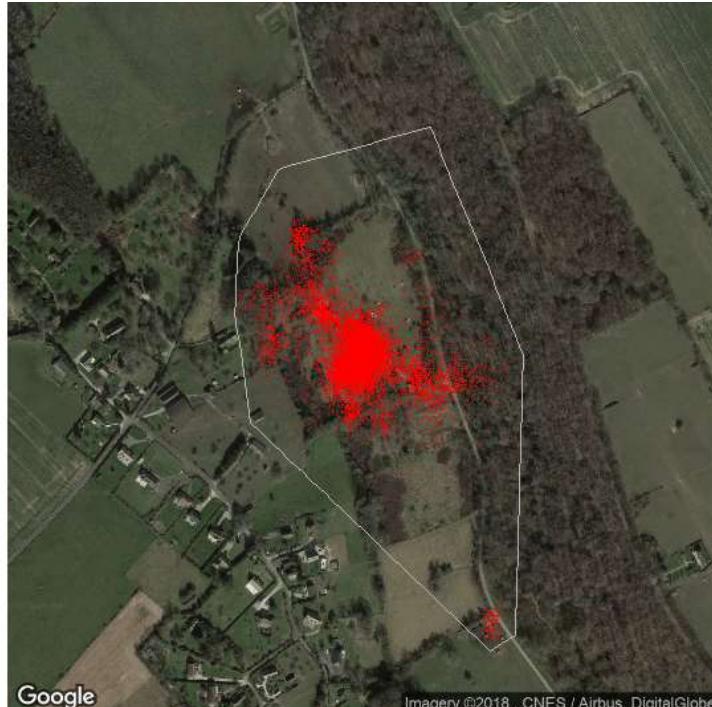
```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id  burst nb.reloc NAs      date.begin      date.end
1 cat4Apr cat4Apr   3454     0 2016-04-13 18:12:31 2016-04-17 19:47:02
2 cat4Aug cat4Aug   2416     0 2016-08-06 18:25:50 2016-08-09 19:04:20
3 cat4Jul cat4Jul   851      0 2016-07-14 09:13:35 2016-07-15 08:58:42
4 cat4Jun cat4Jun  1770      0 2016-06-15 19:03:34 2016-06-17 13:03:33
5 cat4Mar cat4Mar  1395      0 2016-03-27 10:01:33 2016-03-29 09:06:39
6 cat4May cat4May  2044      0 2016-05-14 08:53:10 2016-05-16 07:48:41
7 cat4Oct cat4Oct  1648      0 2016-10-17 09:24:20 2016-10-19 09:25:03
8 cat4Sep cat4Sep  1893      0 2016-09-11 07:10:26 2016-09-13 18:29:44

> CAT4_TABLE1
  id  nb  X_mean  Y_mean mean_time max_dist mean_speed
1 cat4Apr 3454 460512.9 188358.2      102       371      0.21
2 cat4Aug 2416 460526.1 188363.9      108       155      0.13
3 cat4Jul  851 460522.6 188378.2      101       145      0.12
4 cat4Jun 1770 460532.7 188352.2       85       216      0.16
5 cat4Mar 1395 460512.4 188361.9      122       272      0.17
6 cat4May 2044 460517.2 188353.6       83       209      0.22
7 cat4Oct 1648 460495.7 188397.1      105       206      0.17
8 cat4Sep 1893 460520.1 188355.7      113       153      0.18

> MCP100CAT4df
  x        y
1759 0.417182 49.38005
2398 0.417649 49.37929
13242 0.417530 49.37655
13272 0.417148 49.37639
2512 0.413530 49.37863
580 0.413294 49.37972
14322 0.413329 49.38025
14321 0.413369 49.38046
7594 0.413955 49.38112
14163 0.416243 49.38154
17591 0.417182 49.38005
```



Cat 5

```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs
```

Characteristics of the bursts:

id	burst	nb.reloc	NAs	date.begin	date.end
1	cat5Apr	cat5Apr	1171	0	2016-04-02 17:17:20 2016-04-04 15:55:42
2	cat5Feb	cat5Feb	457	0	2016-02-05 22:05:39 2016-02-07 16:21:21
3	cat5Jan	cat5Jan	282	0	2016-01-09 07:34:26 2016-01-10 23:24:11
4	cat5Jun	cat5Jun	719	0	2016-06-11 22:48:51 2016-06-13 09:46:10
5	cat5Mar	cat5Mar	358	0	2016-03-05 21:31:10 2016-03-08 05:03:17
6	cat5May	cat5May	717	0	2016-05-14 16:31:52 2016-05-16 13:15:32

> CAT5_TABLE1

id	nb	X_mean	Y_mean	mean_time	max_dist	mean_speed	
1	cat5Apr	1171	603863.7	122884.2	144	144	0.10
2	cat5Feb	457	603867.1	122892.4	334	133	0.05
3	cat5Jan	282	603848.4	122881.3	510	115	0.05
4	cat5Jun	719	603864.8	122873.1	175	139	0.09
5	cat5Mar	358	603847.7	122885.4	560	172	0.04
6	cat5May	717	603853.0	122865.2	225	106	0.09

> MCP100CAT5df

x	y
3349	2.390634 48.80690
2345	2.391010 48.80587
2344	2.389933 48.80524
1571	2.388360 48.80550
2311	2.387939 48.80608
3201	2.387912 48.80713
353	2.389057 48.80773
226	2.389603 48.80753
33491	2.390634 48.80690



Cat 6

```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id  burst nb.reloc NAs      date.begin      date.end
1 cat6Apr cat6Apr     929  0 2016-04-12 09:23:43 2016-04-14 12:19:13
2 cat6Feb cat6Feb    1345  0 2016-02-07 06:26:03 2016-02-09 10:57:49
3 cat6Jan cat6Jan     916  0 2016-01-07 10:12:22 2016-01-09 08:58:01
4 cat6Jul cat6Jul     741  0 2016-07-11 14:52:55 2016-07-13 16:34:06
5 cat6Jun cat6Jun    1107  0 2016-06-10 05:30:38 2016-06-12 14:44:39
6 cat6Mar cat6Mar    1447  0 2016-03-06 08:10:32 2016-03-08 09:53:23
7 cat6May cat6May    1296  0 2016-05-07 16:25:36 2016-05-09 19:11:18
8 cat6Oct cat6Oct    1194  0 2016-10-11 08:13:49 2016-10-14 05:47:19
9 cat6Sep cat6Sep    1411  0 2016-09-12 15:25:37 2016-09-14 15:56:12

> CAT6_TABLE1
  id  nb  X_mean  Y_mean mean_time max_dist mean_speed
1 cat6Apr 929 590831.9 99153.97      198       87      0.07
2 cat6Feb 1346 590813.6 99133.87      141      135      0.09
3 cat6Jan  916 590821.6 99133.73      184       67      0.07
4 cat6Jul  741 590841.3 99166.81      242      122      0.06
5 cat6Jun 1107 590846.7 99167.51      186      126      0.07
6 cat6Mar 1448 590818.7 99150.57      124      133      0.14
7 cat6May 1297 590833.9 99157.06      141      118      0.09
8 cat6Oct 1194 590828.0 99142.28      210      135      0.07
9 cat6Sep 1411 590821.5 99145.67      124      115      0.11

> MCP100CAT6df
  x        y
3349 2.390634 48.80690
2345 2.391010 48.80587
2344 2.389933 48.80524
1571 2.388360 48.80550
2311 2.387939 48.80608
3201 2.387912 48.80713
353  2.389057 48.80773
226   2.389603 48.80753
33491 2.390634 48.80690
```



Cat 7

```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id  burst nb.reloc NAs      date.begin      date.end
1 cat7Apr cat7Apr     1081 0 2016-04-06 04:46:03 2016-04-08 03:56:12
2 cat7Aug cat7Aug     1667 0 2016-08-07 02:13:06 2016-08-09 05:44:12
3 cat7Feb cat7Feb      665 0 2016-02-05 06:01:57 2016-02-07 17:48:37
4 cat7Jan cat7Jan      491 0 2016-01-05 11:00:20 2016-01-07 10:45:23
5 cat7Jul cat7Jul     1540 0 2016-07-05 07:22:45 2016-07-07 07:13:55
6 cat7Jun cat7Jun     1301 0 2016-06-08 06:33:14 2016-06-10 05:59:03
7 cat7Mar cat7Mar      866 0 2016-03-15 05:52:27 2016-03-17 07:35:18
8 cat7May cat7May     1089 0 2016-05-06 06:05:33 2016-05-08 05:43:39
9 cat7Sep cat7Sep     1244 0 2016-09-08 05:27:57 2016-09-10 05:51:16

> CAT7_TABLE1
  id  nb  X_mean   Y_mean mean_time max_dist mean_speed
1 cat7Apr 1081 608876.7 80869.97      157      323      0.14
2 cat7Aug 1667 608907.4 80889.37      111      188      0.13
3 cat7Feb  665 608884.2 80872.39      324      221      0.08
4 cat7Jan  491 608875.4 80878.30      351      141      0.06
5 cat7Jul 1540 608897.1 80890.56      112      143      0.15
6 cat7Jun 1301 608883.8 80886.49      131      170      0.14
7 cat7Mar  866 608851.6 80835.83      207      153      0.12
8 cat7May 1089 608800.1 80837.15      158      125      0.17
9 cat7Sep 1244 608903.0 80884.68      140      309      0.13

> MCP100CAT7df
  x        y
629 2.458896 48.42888
650 2.459360 48.42828
882 2.458637 48.42786
2004 2.454299 48.42575
2045 2.451467 48.42715
2060 2.451466 48.42791
3928 2.452394 48.42948
3768 2.453282 48.42979
2853 2.455956 48.42996
7198 2.457147 48.42962
3482 2.458667 48.42908
6291 2.458896 48.42888
```



Cat 8

```
***** List of class ltraj *****

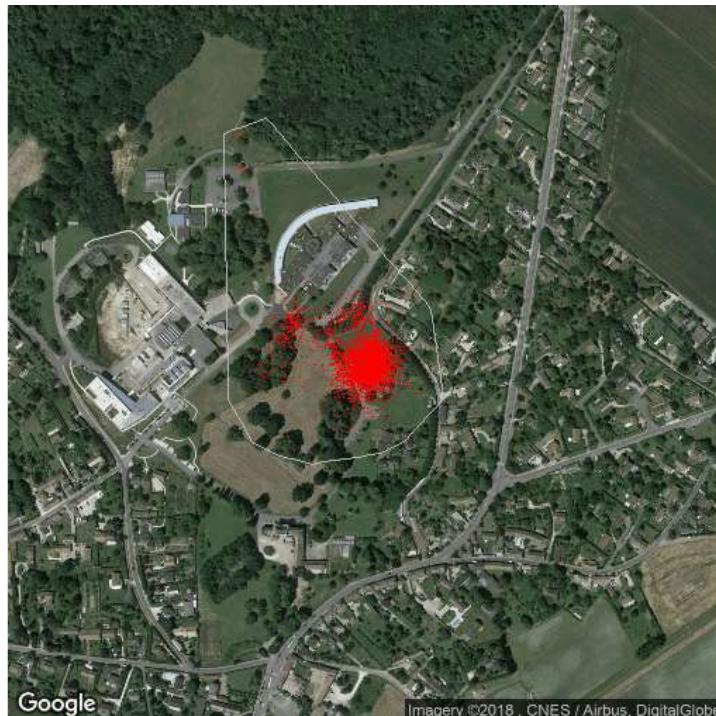
Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs
```

Characteristics of the bursts:

id	burst	nb.reloc	NAs	date.begin	date.end	
1	cat8Apr	cat8Apr	1138	0	2016-04-08 18:44:57	2016-04-10 18:27:03
2	cat8Feb	cat8Feb	1126	0	2016-02-06 19:49:42	2016-02-08 19:02:34
3	cat8Jan	cat8Jan	1095	0	2016-01-10 19:32:25	2016-01-12 19:47:08
4	cat8Jun	cat8Jun	818	0	2016-06-15 16:06:35	2016-06-17 19:21:38
5	cat8Mar	cat8Mar	1363	0	2016-03-09 20:02:51	2016-03-11 19:59:11
6	cat8May	cat8May	1470	0	2016-05-14 20:55:01	2016-05-17 04:41:44

```
> CAT8_TABLE1
   id nb X_mean Y_mean mean_time max_dist mean_speed
1 cat8Apr 1138 548717.4 125298.6   151      96   0.12
2 cat8Feb 1126 548718.8 125296.2   151     113   0.10
3 cat8Jan 1095 548719.5 125293.6   159      80   0.10
4 cat8Jun  818 548701.3 125309.2   226     153   0.08
5 cat8Mar 1363 548716.8 125297.2   127     201   0.14
6 cat8May 1470 548713.5 125295.1   137     262   0.12
```

```
> MCP100CAT8df
   x       y
1273 1.638990 48.82656
3021 1.639202 48.82565
2506 1.638620 48.82523
3583 1.638257 48.82511
4740 1.637225 48.82501
4745 1.637014 48.82504
4746 1.636726 48.82509
4747 1.636328 48.82522
4755 1.635964 48.82565
6251 1.635897 48.82827
6255 1.636187 48.82834
6257 1.636532 48.82843
12731 1.638990 48.82656
```



Cat 9

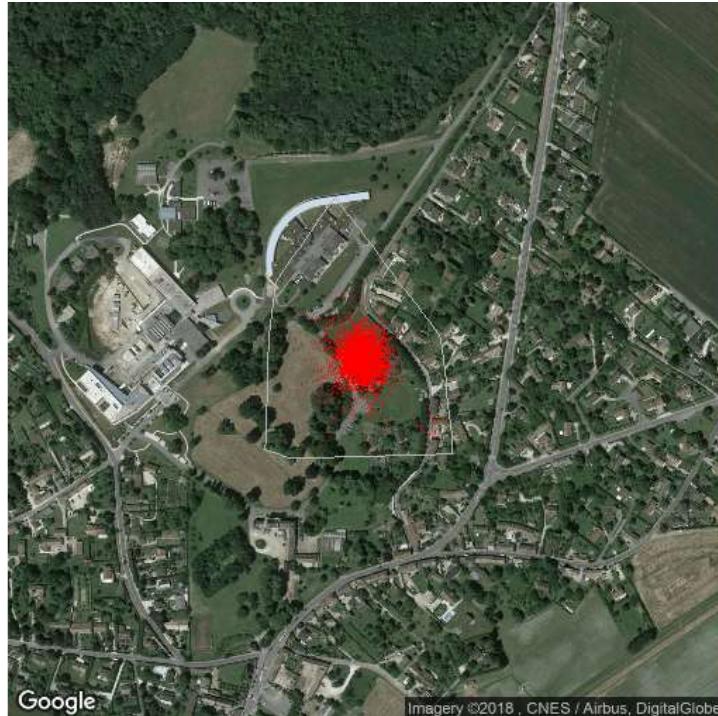
```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id  burst nb.reloc NAs      date.begin      date.end
1 cat9Apr cat9Apr     1737   0 2016-04-13 19:42:48 2016-04-15 21:01:23
2 cat9Feb cat9Feb     1959   0 2016-02-01 20:10:39 2016-02-03 21:29:16
3 cat9Jan cat9Jan     1521   0 2016-01-05 20:48:16 2016-01-07 20:45:32
4 cat9Jul cat9Jul     1513   0 2016-07-12 19:06:04 2016-07-14 19:18:52
5 cat9Jun cat9Jun     1697   0 2016-06-07 17:56:15 2016-06-09 19:03:21
6 cat9Mar cat9Mar     1733   0 2016-03-06 18:27:03 2016-03-08 20:07:04
7 cat9May cat9May     1470   0 2016-05-17 20:45:31 2016-05-19 20:20:50
8 cat9Oct cat9Oct     1788   0 2016-10-12 17:13:04 2016-10-14 18:57:25
9 cat9Sep cat9Sep     1609   0 2016-09-07 18:04:34 2016-09-09 18:09:41

> CAT9_TABLE1
  id  nb  X_mean  Y_mean mean_time max_dist mean_speed
1 cat9Apr 1737 548726.7 125291.6      102      137      0.13
2 cat9Feb 1959 548726.6 125293.1       91       93      0.14
3 cat9Jan 1521 548725.0 125293.9      114      107      0.12
4 cat9Jul 1513 548724.7 125292.0      115      111      0.11
5 cat9Jun 1697 548723.8 125292.3      104      139      0.12
6 cat9Mar 1733 548726.7 125293.6      103      118      0.13
7 cat9May 1470 548723.9 125293.0      117      132      0.12
8 cat9Oct 1788 548726.4 125293.3      100      139      0.13
9 cat9Sep 1609 548722.5 125295.3      108      140      0.11

> MCP100CAT9df
  x        y
4483 1.639299 48.82619
5911 1.639464 48.82512
5915 1.639448 48.82504
12352 1.636999 48.82500
7198 1.636659 48.82508
9    1.636710 48.82621
12498 1.636816 48.82675
14915 1.637701 48.82758
44831 1.639299 48.82619
```



Cat 10

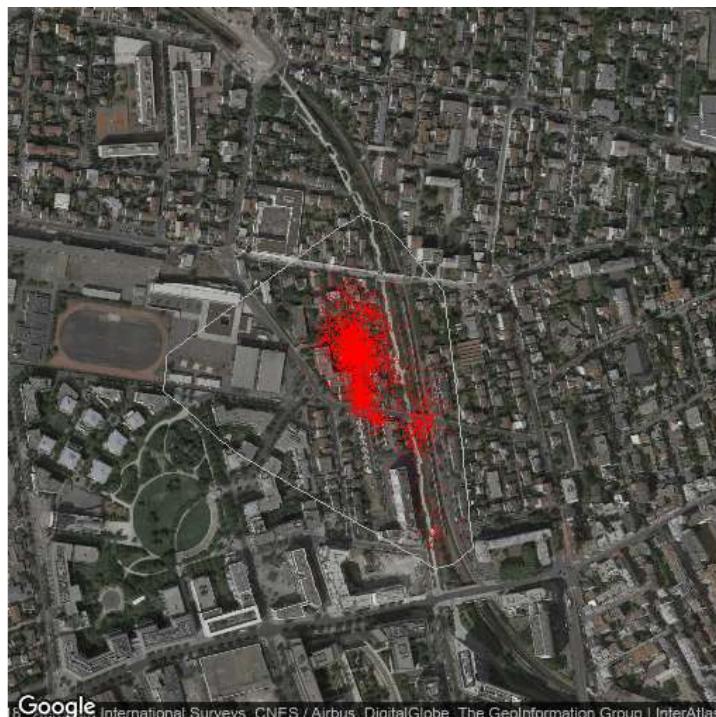
```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id  burst nb.reloc NAs      date.begin      date.end
1 cat10Apr cat10Apr     697 0 2016-04-16 06:06:39 2016-04-18 04:34:37
2 cat10Aug cat10Aug     801 0 2016-08-23 17:42:19 2016-08-25 17:43:54
3 cat10Feb cat10Feb     703 0 2016-02-12 18:25:31 2016-02-14 17:54:13
4 cat10Jul cat10Jul     849 0 2016-07-09 06:53:17 2016-07-11 19:43:10
5 cat10Jun cat10Jun     362 0 2016-06-16 08:13:53 2016-06-17 21:16:57
6 cat10Mar cat10Mar     453 0 2016-03-11 21:31:30 2016-03-13 19:08:56
7 cat10May cat10May     596 0 2016-05-18 18:54:24 2016-05-20 18:34:07
8 cat10Oct cat10Oct     998 0 2016-10-15 14:58:27 2016-10-19 05:19:51
9 cat10Sep cat10Sep     500 0 2016-09-17 14:22:46 2016-09-19 16:16:55

> CAT10_TABLE1
  id nb X_mean Y_mean mean_time max_dist mean_speed
1 cat10Apr 697 594600.4 134356.0     240      73     0.06
2 cat10Aug 801 594614.9 134303.3     216     175     0.09
3 cat10Feb 703 594592.1 134379.5     243     140     0.09
4 cat10Jul 849 594605.9 134323.2     258      75     0.05
5 cat10Jun 362 594626.2 134315.1     369      97     0.04
6 cat10Mar 453 594597.2 134351.2     363      71     0.04
7 cat10May 596 594595.3 134351.7     288      78     0.05
8 cat10Oct 998 594610.1 134331.0     312     286     0.06
9 cat10Sep 500 594607.1 134337.0     360     158     0.05

> MCP100CAT10df
  x       y
559 2.264082 48.91016
2619 2.264277 48.90920
4354 2.264527 48.90763
3763 2.264235 48.90747
4379 2.263991 48.90741
5019 2.260954 48.90857
3886 2.259892 48.90917
3887 2.259933 48.90952
637 2.262368 48.91071
532 2.262852 48.91090
4569 2.263219 48.91081
5591 2.264082 48.91016
```



Cat 11

```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id  burst nb.reloc NAs      date.begin      date.end
1 cat11Apr cat11Apr     1812 0 2016-04-05 22:34:40 2016-04-07 21:27:31
2 cat11Feb cat11Feb     1923 0 2016-02-08 12:48:52 2016-02-10 15:19:44
3 cat11Jun cat11Jun     1909 0 2016-06-11 10:36:56 2016-06-13 11:18:06
4 cat11Mar cat11Mar     2154 0 2016-03-13 10:03:36 2016-03-15 11:03:57
5 cat11May cat11May     1805 0 2016-05-18 18:50:32 2016-05-20 19:57:54

> CAT11_TABLE1
   id nb X_mean Y_mean mean_time max_dist mean_speed
1 cat11Apr 1812 577105.8 137797.5      93     176      0.14
2 cat11Feb 1923 577088.6 137815.4      95     196      0.14
3 cat11Jun 1909 577084.0 137804.2      92      94      0.13
4 cat11Mar 2154 577118.9 137796.7      82     140      0.15
5 cat11May 1805 577086.6 137826.9      98     117      0.13

> MCP100CAT11df
   x         y
3957 2.027538 48.93958
1953 2.026148 48.93856
5365 2.025711 48.93825
5363 2.025507 48.93818
9151 2.023888 48.93858
6897 2.023305 48.93879
9160 2.022817 48.93910
9189 2.022437 48.93942
9219 2.022108 48.94033
9223 2.021999 48.94115
1707 2.023332 48.94120
1001 2.025362 48.94105
3951 2.027073 48.93992
39571 2.027538 48.93958
```



Cat 12

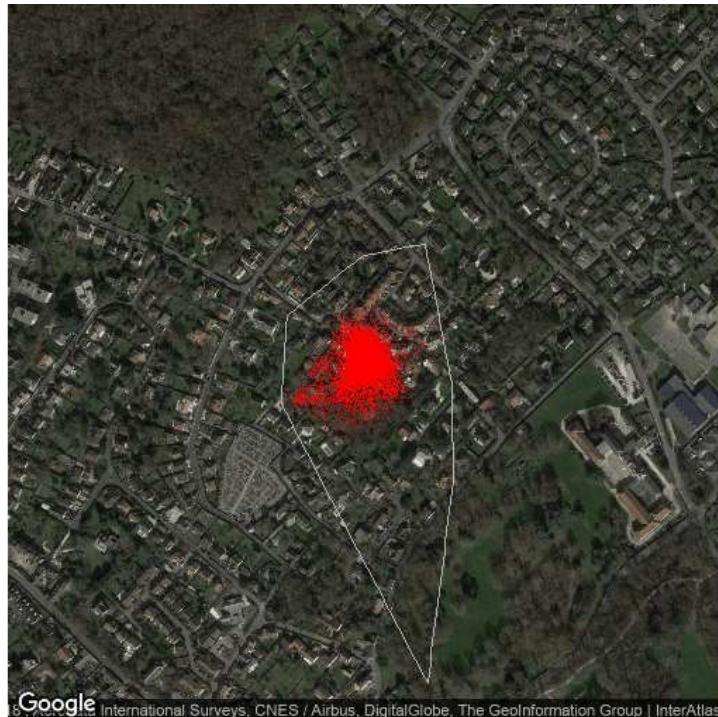
```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id   burst nb.reloc NAs      date.begin      date.end
1 cat12Apr cat12Apr    2647 0 2016-04-10 17:26:25 2016-04-13 09:18:55
2 cat12Aug cat12Aug    1988 0 2016-08-21 17:48:30 2016-08-23 20:17:36
3 cat12Feb cat12Feb    1816 0 2016-02-06 16:27:25 2016-02-08 17:49:54
4 cat12Jan cat12Jan    1852 0 2016-01-06 13:41:32 2016-01-08 20:45:39
5 cat12Jul cat12Jul    1636 0 2016-07-13 16:01:25 2016-07-15 21:55:02
6 cat12Jun cat12Jun    1288 0 2016-06-09 05:56:57 2016-06-10 17:40:14
7 cat12Mar cat12Mar    2251 0 2016-03-06 18:10:40 2016-03-08 20:35:22
8 cat12May cat12May    2423 0 2016-05-08 15:52:58 2016-05-11 06:06:41

> CAT12_TABLE1
  id nb X_mean Y_mean mean_time max_dist mean_speed
1 cat12Apr 2647 608564.3 105705.5     87      91  0.13
2 cat12Aug 1988 608555.0 105691.8     91     143  0.14
3 cat12Feb 1816 608564.7 105709.6     98     164  0.12
4 cat12Jan 1852 608565.5 105707.5    107     353  0.11
5 cat12Jul 1636 608559.7 105697.0    119      83  0.10
6 cat12Jun 1288 608555.8 105701.6    100     111  0.12
7 cat12Mar 2251 608563.8 105705.5    81     153  0.14
8 cat12May 2423 608562.9 105698.0    92     122  0.13

> MCP100CAT12df
      x         y
11097 2.454013 48.65168
265    2.454042 48.65070
264    2.453657 48.64870
12390  2.451489 48.65142
13682  2.451461 48.65149
4164   2.451541 48.65234
10641  2.452700 48.65293
4690   2.453619 48.65305
110971 2.454013 48.65168
```



Cat 13

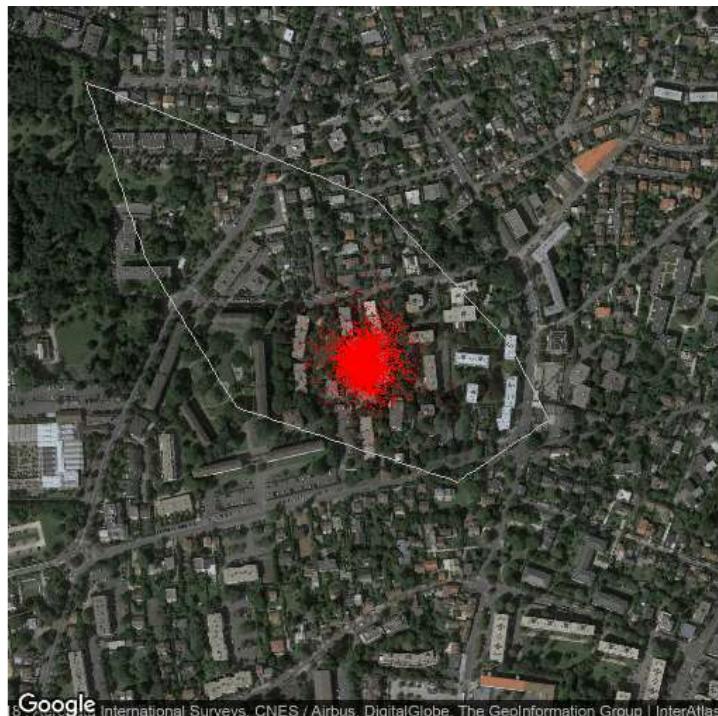
```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
   id   burst nb.reloc NAs      date.begin      date.end
1  cat13Apr cat13Apr     925     0 2016-04-08 23:40:43 2016-04-11 04:09:21
2  cat13Aug cat13Aug     952     0 2016-08-13 18:14:29 2016-08-15 20:41:20
3  cat13Feb cat13Feb     337     0 2016-02-06 08:42:21 2016-02-08 05:43:19
4  cat13Jan cat13Jan     902     0 2016-01-02 04:09:06 2016-01-10 19:17:31
5  cat13Jul cat13Jul     753     0 2016-07-16 06:35:30 2016-07-17 18:24:43
6  cat13Jun cat13Jun     977     0 2016-06-18 03:23:54 2016-06-20 04:35:52
7  cat13Mar cat13Mar     761     0 2016-03-12 04:44:26 2016-03-14 05:11:32
8  cat13May cat13May     562     0 2016-05-14 21:28:01 2016-05-17 03:55:38
9  cat13Nov cat13Nov     196     0 2016-11-19 07:09:34 2016-11-20 18:19:18
10 cat13Oct cat13Oct     283     0 2016-10-22 06:52:05 2016-10-24 03:28:17
11 cat13Sep cat13Sep     397     0 2016-09-17 07:33:33 2016-09-18 15:30:35

> CAT13_TABLE1
   id   nb   X_mean   Y_mean mean_time max_dist mean_speed
1  cat13Apr 925 595742.9 119079.6     204      99     0.09
2  cat13Aug 952 595740.0 119079.7     191     437     0.10
3  cat13Feb 337 595744.1 119072.5     482     202     0.05
4  cat13Jan 902 595742.2 119079.2     828     181     0.02
5  cat13Jul 753 595737.1 119073.6     171     277     0.11
6  cat13Jun 977 595739.1 119076.5     181     222     0.10
7  cat13Mar 761 595744.1 119072.4     230     124     0.08
8  cat13May 562 595737.5 119074.4     349     108     0.05
9  cat13Nov 196 595735.9 119068.2     649     109     0.03
10 cat13Oct 283 595734.3 119073.8     569      90     0.03
11 cat13Sep 397 595736.6 119073.3     290      74     0.06

> MCP100CAT13df
   x         y
1028 2.278713 48.77381
5516 2.280722 48.77239
4342 2.281309 48.77163
5546 2.279936 48.77102
701  2.276619 48.77176
4672 2.275261 48.77324
5329 2.274369 48.77496
5328 2.274538 48.77493
10281 2.278713 48.77381
```



Cat 14

***** List of class ltraj *****

Type of the traject: Type II (time recorded)

* Time zone: GMT *

Irregular traject. Variable time lag between two locs

Characteristics of the bursts:

	id	burst	nb.reloc	NAs	date.begin	date.end
1	cat14Apr	cat14Apr	556	0	2016-04-06 09:55:33	2016-04-08 03:57:49
2	cat14Aug	cat14Aug	1774	0	2016-08-10 17:34:26	2016-08-13 07:02:20
3	cat14Feb	cat14Feb	400	0	2016-02-08 07:14:36	2016-02-10 05:22:20
4	cat14Jan	cat14Jan	314	0	2016-01-10 09:01:31	2016-01-12 10:26:07
5	cat14Jul	cat14Jul	953	0	2016-07-05 06:06:30	2016-07-06 18:15:16
6	cat14Jun	cat14Jun	1161	0	2016-06-08 04:53:33	2016-06-10 17:58:15
7	cat14Mar	cat14Mar	577	0	2016-03-07 06:13:18	2016-03-08 18:37:14
8	cat14May	cat14May	799	0	2016-05-10 06:05:56	2016-05-12 05:02:52
9	cat14Oct	cat14Oct	1669	0	2016-10-10 05:28:53	2016-10-12 05:46:15
10	cat14Sep	cat14Sep	838	0	2016-09-15 04:53:24	2016-09-18 06:27:18

> CAT14_TABLE1

	id	nb	X_mean	Y_mean	mean_time	max_dist	mean_speed
1	cat14Apr	556	612026.1	128040.6	273	59	0.05
2	cat14Aug	1774	612028.3	128035.5	125	80	0.09
3	cat14Feb	400	612032.2	128034.5	416	117	0.04
4	cat14Jan	314	612033.4	128034.1	568	165	0.03
5	cat14Jul	953	612027.7	128039.8	137	186	0.10
6	cat14Jun	1161	612028.2	128038.3	190	61	0.06
7	cat14Mar	577	612030.5	128035.3	227	162	0.07
8	cat14May	799	612021.7	128047.5	212	93	0.08
9	cat14Oct	1669	612039.7	128038.6	104	193	0.19
10	cat14Sep	838	612028.1	128036.7	316	66	0.04

> MCP100CAT14df

	x	y
1254	2.502355	48.85310
4571	2.502170	48.85190
7867	2.500644	48.85198
8933	2.500068	48.85202
2513	2.499423	48.85248
56	2.498587	48.85356
7896	2.501696	48.85412
12541	2.502355	48.85310



Cat 15

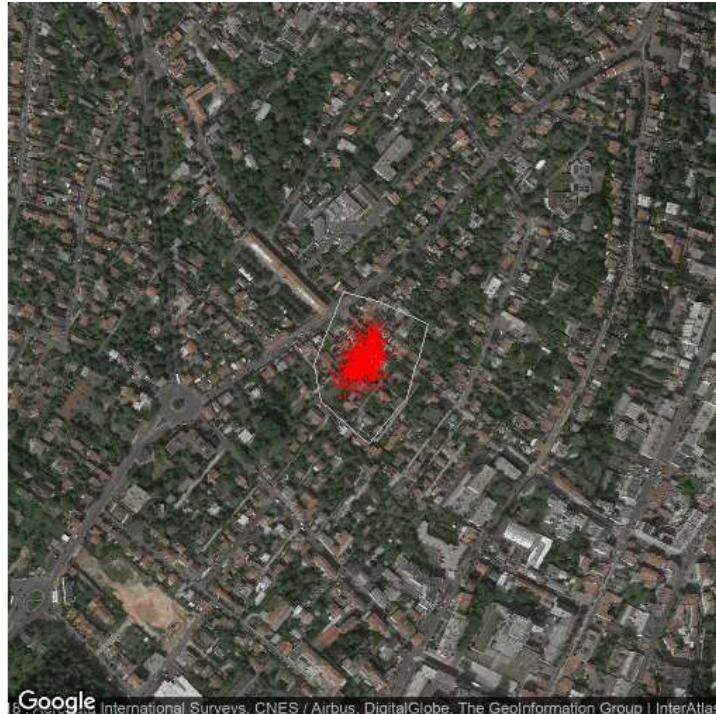
```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id    burst nb.reloc NAs      date.begin      date.end
1 cat15Apr cat15Apr     846    0 2016-04-08 21:13:14 2016-04-12 23:00:46
2 cat15Dec cat15Dec     272    0 2015-12-01 12:05:31 2015-12-04 11:26:05
3 cat15Feb cat15Feb     361    0 2016-02-03 11:50:55 2016-02-06 13:07:22
4 cat15Jan cat15Jan     185    0 2016-01-11 00:09:38 2016-01-16 13:57:34
5 cat15Jun cat15Jun    1590    0 2016-06-19 19:05:58 2016-06-23 12:53:28
6 cat15Mar cat15Mar     200    0 2016-03-02 10:58:19 2016-03-04 16:16:04

> CAT15_TABLE1
  id   nb   X_mean   Y_mean mean_time max_dist mean_speed
1 cat15Apr  846 594537.1 122805.5      417       72      0.03
2 cat15Dec  272 594530.8 122801.1      948       64      0.02
3 cat15Feb  361 594534.4 122804.7      733       82      0.02
4 cat15Jan  185 594534.5 122798.7     2618       67      0.01
5 cat15Jun 1590 594529.5 122794.3      203      105      0.07
6 cat15Mar  200 594539.5 122812.1      964       66      0.01

> MCP100CAT15df
      x        y
2767 2.263032 48.80602
3169 2.262704 48.80528
2996 2.262130 48.80484
710   2.261420 48.80526
781   2.261324 48.80562
488   2.261762 48.80635
341   2.262194 48.80626
27671 2.263032 48.80602
```



Cat 16

***** List of class ltraj *****

Type of the traject: Type II (time recorded)

* Time zone: GMT *

Irregular traject. Variable time lag between two locs

Characteristics of the bursts:

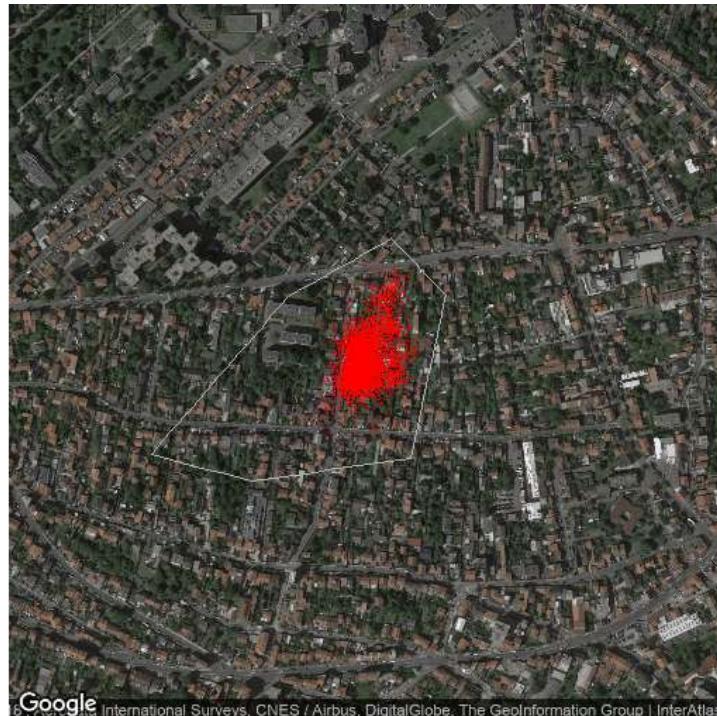
	id	burst	nb.reloc	NAs	date.begin	date.end
1	cat16Apr	cat16Apr	1359	0	2016-04-09 11:00:15	2016-04-11 16:24:31
2	cat16Aug	cat16Aug	818	0	2016-08-15 10:18:04	2016-08-17 11:29:08
3	cat16Feb	cat16Feb	891	0	2016-02-07 14:30:31	2016-02-09 17:40:50
4	cat16Jan	cat16Jan	1273	0	2016-01-10 10:07:26	2016-01-12 20:08:33
5	cat16Jul	cat16Jul	1412	0	2016-07-14 11:42:27	2016-07-16 17:03:05
6	cat16Jun	cat16Jun	622	0	2016-06-18 16:51:31	2016-06-19 17:11:59
7	cat16Mar	cat16Mar	1224	0	2016-03-13 12:42:28	2016-03-15 17:39:46
8	cat16May	cat16May	1470	0	2016-05-12 17:20:28	2016-05-14 19:21:26
9	cat16Oct	cat16Oct	1008	0	2016-10-16 19:57:33	2016-10-18 18:38:44
10	cat16Sep	cat16Sep	1155	0	2016-09-26 16:11:21	2016-09-28 17:44:46

> CAT16_TABLE1

	id	nb	X_mean	Y_mean	mean_time	max_dist	mean_speed
1	cat16Apr	1359	609389.7	128342.3	142	159	0.11
2	cat16Aug	818	609392.4	128348.8	217	70	0.07
3	cat16Feb	891	609390.1	128344.8	207	214	0.08
4	cat16Jan	1273	609386.3	128336.2	164	186	0.09
5	cat16Jul	1412	609390.2	128350.7	136	128	0.11
6	cat16Jun	622	609395.5	128348.6	141	103	0.10
7	cat16Mar	1224	609390.2	128337.1	156	84	0.10
8	cat16May	1470	609394.5	128345.1	123	104	0.12
9	cat16Oct	1008	609392.1	128347.5	167	257	0.10
10	cat16Sep	1155	609387.3	128343.4	155	80	0.10

> MCP100CAT16df

	x	y
4857	2.465677	48.85614
4500	2.465159	48.85453
527	2.462779	48.85430
10630	2.461261	48.85457
10472	2.463317	48.85612
4267	2.464866	48.85669
48571	2.465677	48.85614



Cat 17

***** List of class ltraj *****

Type of the traject: Type II (time recorded)

* Time zone: GMT *

Irregular traject. Variable time lag between two locs

Characteristics of the bursts:

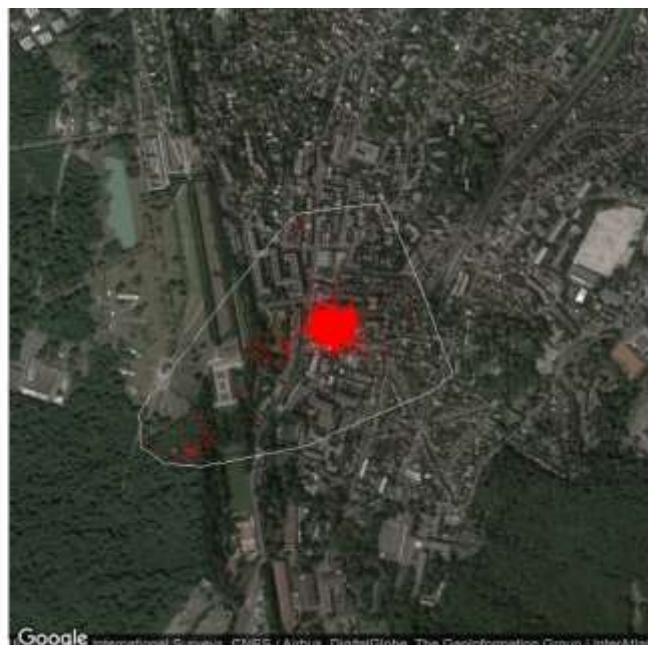
	id	burst	nb.reloc	NAs	date.begin	date.end
1	cat17Apr	cat17Apr	781	0	2016-04-05 16:34:59	2016-04-08 05:00:11
2	cat17Aug	cat17Aug	492	0	2016-08-06 12:51:06	2016-08-08 09:57:07
3	cat17Feb	cat17Feb	689	0	2016-02-08 11:47:59	2016-02-10 11:12:18
4	cat17Jan	cat17Jan	1345	0	2016-01-07 18:36:23	2016-01-13 09:59:38
5	cat17Jul	cat17Jul	457	0	2016-07-07 16:50:44	2016-07-10 05:38:56
6	cat17Jun	cat17Jun	703	0	2016-06-06 20:33:03	2016-06-08 17:55:22
7	cat17Mar	cat17Mar	839	0	2016-03-10 07:06:56	2016-03-12 06:54:20
8	cat17May	cat17May	581	0	2016-05-05 16:21:40	2016-05-07 05:24:31
9	cat17Oct	cat17Oct	388	0	2016-10-05 12:57:51	2016-10-07 08:55:47
10	cat17Sep	cat17Sep	532	0	2016-09-07 20:17:42	2016-09-10 10:41:12

> CAT17_TABLE1

	id	nb	X_mean	Y_mean	mean_time	max_dist	mean_speed
1	cat17Apr	781	592601.3	122783.9	279	466	0.07
2	cat17Aug	492	592661.5	122829.6	331	261	0.06
3	cat17Feb	689	592678.5	122842.1	248	158	0.08
4	cat17Jan	1345	592695.9	122841.2	363	134	0.05
5	cat17Jul	457	592682.5	122834.2	480	181	0.04
6	cat17Jun	703	592670.3	122836.6	233	303	0.09
7	cat17Mar	839	592668.2	122834.5	205	293	0.10
8	cat17May	581	592660.9	122826.9	230	275	0.11
9	cat17Oct	388	592666.1	122831.3	409	108	0.05
10	cat17Sep	532	592660.5	122825.9	423	310	0.06

> MCP100CAT17df

	x	y
4446	2.239859	48.80648
2274	2.240723	48.80491
3674	2.240084	48.80459
3687	2.235970	48.80340
3686	2.235738	48.80335
3008	2.232742	48.80296
3034	2.232369	48.80292
3046	2.231158	48.80298
3044	2.230390	48.80332
3042	2.230380	48.80334
3562	2.230280	48.80404
3050	2.230518	48.80430
3076	2.233456	48.80683
1897	2.235323	48.80832
1889	2.235570	48.80845
6036	2.238488	48.80868
44461	2.239859	48.80648



Cat 18

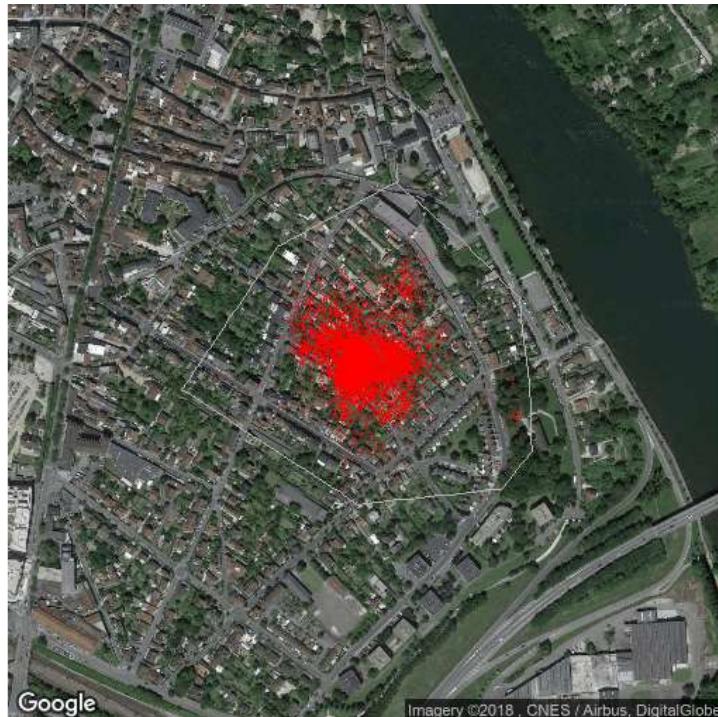
```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id   burst nb_reloc NAs      date.begin      date.end
1 cat18Apr cat18Apr     1636  0 2016-04-12 04:38:29 2016-04-14 15:04:33
2 cat18Aug cat18Aug     1783  0 2016-08-16 03:33:36 2016-08-18 14:34:58
3 cat18Feb cat18Feb     1170  0 2016-02-14 08:48:06 2016-02-16 16:48:33
4 cat18Jan cat18Jan     1137  0 2016-01-12 06:23:11 2016-01-13 19:32:47
5 cat18Jul cat18Jul     4347  0 2016-07-03 09:56:33 2016-07-20 17:31:42
6 cat18Mar cat18Mar     975  0 2016-03-14 13:15:11 2016-03-16 15:58:56
7 cat18Oct cat18Oct     1767  0 2016-10-10 03:17:22 2016-10-12 16:26:26
8 cat18Sep cat18Sep     1171  0 2016-09-13 05:29:53 2016-09-14 19:29:01

> CAT18_TABLE1
  id nb   X_mean   Y_mean mean_time max_dist mean_speed
1 cat18Apr 1636 554997.9 143045.6      129      238      0.14
2 cat18Aug 1783 554986.6 143032.0      119       96      0.11
3 cat18Feb 1170 555003.7 143054.3      172      101      0.08
4 cat18Jan 1137 555013.9 143042.8      118      176      0.16
5 cat18Jul 4347 555000.6 143028.6      344      196      0.03
6 cat18Mar 975 555008.6 143033.4      188      104      0.08
7 cat18Oct 1767 554997.7 143028.9      125      159      0.09
8 cat18Sep 1171 554985.5 143038.7      117       75      0.11

> MCP100CAT18df
      x         y
6027 1.723931 48.98664
2017 1.724111 48.98561
2005 1.724118 48.98513
2002 1.723673 48.98476
1107 1.721510 48.98461
12894 1.718877 48.98574
3851 1.720311 48.98714
4403 1.722070 48.98777
669  1.723162 48.98715
60271 1.723931 48.98664
```



Cat 19

```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id   burst nb.reloc NAs      date.begin      date.end
1 cat19Apr cat19Apr     773   0 2016-04-16 06:54:27 2016-04-18 07:02:01
2 cat19Feb cat19Feb     502   0 2016-02-13 16:37:06 2016-02-15 16:02:41
3 cat19Jan cat19Jan     398   0 2016-01-09 05:05:02 2016-01-10 13:57:02
4 cat19Mar cat19Mar     612   0 2016-03-11 22:26:33 2016-03-13 18:07:00
5 cat19May cat19May     759   0 2016-05-07 06:30:08 2016-05-09 05:26:50

> CAT19_TABLE1
  id nb   X_mean   Y_mean mean_time max_dist mean_speed
1 cat19Apr 773 562542.8 131056.2       224        82      0.06
2 cat19Feb 502 562539.4 131054.3       341       101      0.04
3 cat19Jan 398 562538.3 131050.2       298       171      0.05
4 cat19Mar 612 562541.3 131054.8       257        58      0.05
5 cat19May 759 562542.1 131052.5       223        81      0.04

> MCP100CAT19df
      x         y
783 1.827163 48.87893
119 1.827774 48.87790
121 1.827699 48.87755
122 1.827326 48.87724
124 1.826777 48.87725
1599 1.824634 48.87825
2934 1.824781 48.87862
2254 1.825415 48.87919
2527 1.825813 48.87950
1645 1.826087 48.87939
7831 1.827163 48.87893
```



Cat 20

```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id   burst nb.reloc NAs      date.begin      date.end
1 cat20Apr cat20Apr     435 0 2016-04-18 07:52:36 2016-04-18 20:50:22
2 cat20Aug cat20Aug    1343 0 2016-08-03 06:38:56 2016-08-05 12:28:14
3 cat20Jul cat20Jul    1572 0 2016-07-05 06:36:14 2016-07-07 18:09:31
4 cat20Jun cat20Jun    1654 0 2016-06-07 18:16:35 2016-06-10 18:51:47
5 cat20Mar cat20Mar    355 0 2016-03-15 21:41:16 2016-03-17 20:48:39
6 cat20May cat20May    228 0 2016-05-14 14:55:31 2016-05-14 20:00:34
7 cat20Oct cat20Oct    737 0 2016-10-08 20:56:19 2016-10-10 20:33:20
8 cat20Sep cat20Sep    1670 0 2016-09-13 18:14:33 2016-09-16 05:20:59

> CAT20_TABLE1
  id nb   X_mean   Y_mean mean_time max_dist mean_speed
1 cat20Apr 435 630424.6 69146.08      108     353     0.24
2 cat20Aug 1343 630420.8 69125.30      144     296     0.13
3 cat20Jul 1572 630416.1 69127.53      136     222     0.10
4 cat20Jun 1654 630407.9 69126.38      158     231     0.10
5 cat20Mar 355 630407.4 69136.78      479     193     0.04
6 cat20May 228 630400.2 69159.53       81     221     0.34
7 cat20Oct 737 630405.6 69136.82      233     273     0.07
8 cat20Sep 1670 630418.0 69123.50      127     254     0.13

> MCP100CAT20df
  x        y
5934 2.749091 48.32348
1527 2.748727 48.32220
1529 2.747187 48.31952
8827 2.744181 48.32063
5522 2.743169 48.32353
4014 2.746726 48.32458
7883 2.748382 48.32412
59341 2.749091 48.32348
```



Cat 21

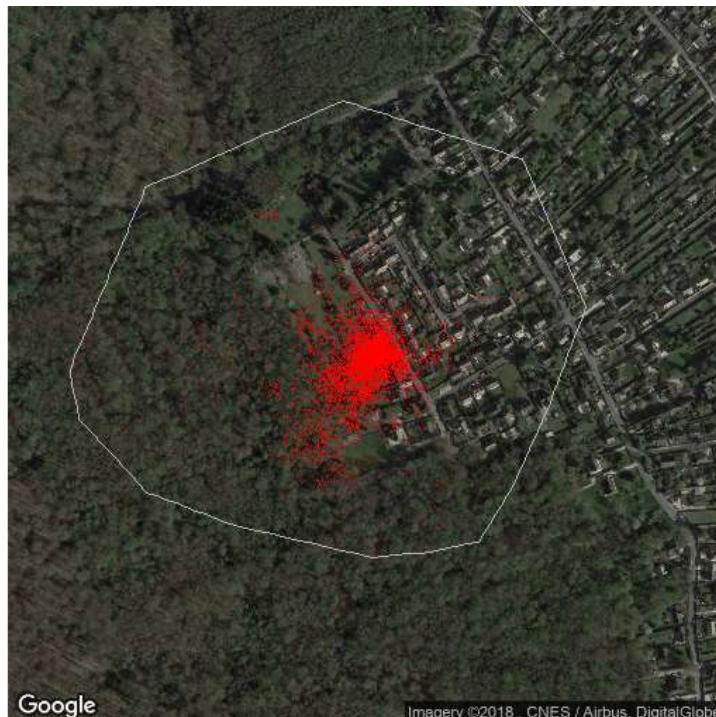
```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id   burst nb_reloc NAs      date.begin      date.end
1 cat21Apr cat21Apr     970   0 2016-04-12 05:57:46 2016-04-14 12:59:54
2 cat21Aug cat21Aug     345   0 2016-08-01 10:49:15 2016-08-01 16:49:51
3 cat21Jul cat21Jul     831   0 2016-07-29 08:13:01 2016-07-31 21:40:19
4 cat21Jun cat21Jun    4136   0 2016-06-20 11:47:31 2016-06-27 10:37:10
5 cat21Mar cat21Mar     921   0 2016-03-12 15:16:04 2016-03-14 15:51:46
6 cat21May cat21May     570   0 2016-05-25 13:00:33 2016-05-27 17:57:52
7 cat21Oct cat21Oct     628   0 2016-10-10 05:31:39 2016-10-11 19:28:10
8 cat21Sep cat21Sep     633   0 2016-09-11 07:32:33 2016-09-12 19:23:36

> CAT21_TABLE1
  id nb   X_mean   Y_mean mean_time max_dist mean_speed
1 cat21Apr 970 632682.1 78077.06      204      322      0.13
2 cat21Aug 345 632689.7 78082.11       63       30      0.05
3 cat21Jul 831 632680.3 78075.27      267      159      0.08
4 cat21Jun 4136 632683.8 78080.20      145      216      0.06
5 cat21Mar 921 632691.3 78097.30      190      287      0.13
6 cat21May 570 632662.2 78077.29      335      266      0.07
7 cat21Oct 628 632676.9 78074.04      218      184      0.10
8 cat21Sep 633 632660.8 78071.64      204      287      0.11

> MCP100CAT21df
      x         y
291 2.781181 48.40325
2149 2.780595 48.40221
2708 2.780084 48.40146
1295 2.779576 48.40092
400  2.778855 48.40082
9060 2.777989 48.40076
2396 2.775928 48.40108
8151 2.774601 48.40141
8850 2.773578 48.40214
8846 2.773450 48.40260
8843 2.773465 48.40267
1794 2.774578 48.40444
279  2.777375 48.40526
551  2.777558 48.40530
629  2.779416 48.40490
44   2.780234 48.40472
2911 2.781181 48.40325
```



Cat 22

```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id   burst nb.reloc NAs      date.begin      date.end
1 cat22Apr cat22Apr     1201 0 2016-04-07 07:38:06 2016-04-09 15:44:20
2 cat22Feb cat22Feb     902 0 2016-02-06 14:18:32 2016-02-08 21:51:50
3 cat22Jun cat22Jun     835 0 2016-06-10 18:45:45 2016-06-13 05:57:05
4 cat22Mar cat22Mar     730 0 2016-03-09 07:03:34 2016-03-11 17:59:29
5 cat22May cat22May     456 0 2016-05-05 19:10:38 2016-05-07 10:37:54
6 cat22Nov cat22Nov     955 0 2016-11-06 08:39:49 2016-11-08 16:41:00
7 cat22Oct cat22Oct    1132 0 2016-10-21 07:25:22 2016-10-23 18:40:37
8 cat22Sep cat22Sep    1701 0 2016-09-19 10:48:59 2016-09-22 07:39:31

> CAT22_TABLE1
  id nb   X_mean   Y_mean mean_time max_dist mean_speed
1 cat22Apr 1201 630342.4 70849.08      168      169      0.11
2 cat22Feb  902 630342.3 70846.78      222      148      0.08
3 cat22Jun  835 630340.4 70848.02      255       75      0.05
4 cat22Mar  730 630347.1 70843.96      291      163      0.05
5 cat22May  456 630342.3 70846.16      312      190      0.06
6 cat22Nov  955 630341.2 70849.68      211      204      0.08
7 cat22Oct 1132 630337.3 70844.44      189      216      0.07
8 cat22Sep 1701 630342.7 70845.91      146      194      0.11

> MCP100CAT22df
      x         y
654 2.747200 48.33885
1602 2.747423 48.33798
3273 2.747506 48.33760
1518 2.747228 48.33710
2947 2.746989 48.33689
5576 2.745139 48.33646
1469 2.744568 48.33664
2807 2.744596 48.33876
2993 2.744705 48.33906
7851 2.745419 48.33940
6301 2.746093 48.33969
3244 2.746600 48.33940
6541 2.747200 48.33885
```



Cat 23

***** List of class ltraj *****

Type of the traject: Type II (time recorded)

* Time zone: GMT *

Irregular traject. Variable time lag between two locs

Characteristics of the bursts:

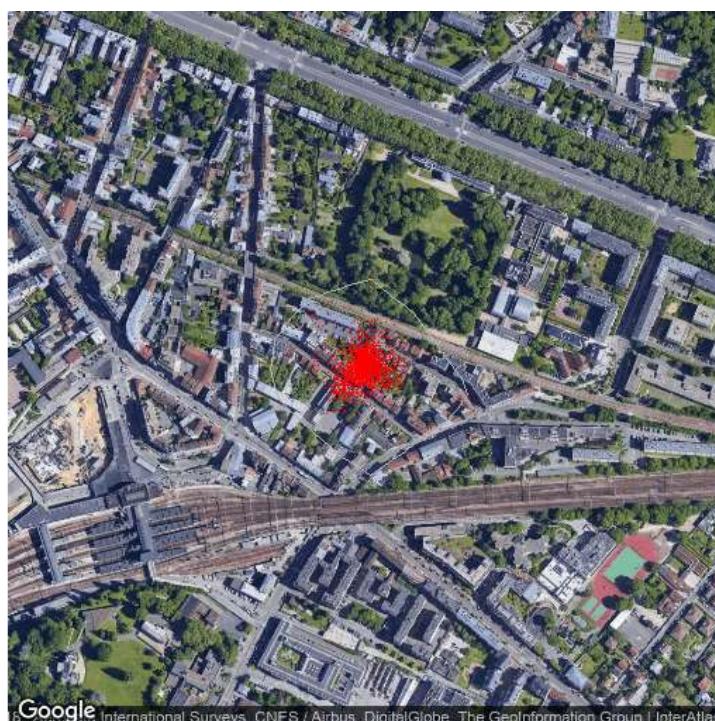
	id	burst	nb.reloc	NAs	date.begin	date.end
1	cat23Apr	cat23Apr	234	0	2016-04-05 07:14:49	2016-04-07 08:20:02
2	cat23Aug	cat23Aug	216	0	2016-08-22 14:55:05	2016-08-24 12:48:54
3	cat23Feb	cat23Feb	193	0	2016-02-09 11:08:45	2016-02-11 11:27:15
4	cat23Jan	cat23Jan	82	0	2016-01-06 11:39:04	2016-01-08 12:29:22
5	cat23Jul	cat23Jul	438	0	2016-07-04 06:05:18	2016-07-06 09:28:05
6	cat23Jun	cat23Jun	173	0	2016-06-06 20:36:50	2016-06-08 19:59:55
7	cat23Mar	cat23Mar	100	0	2016-03-14 14:48:47	2016-03-16 09:43:56
8	cat23May	cat23May	480	0	2016-05-16 18:35:26	2016-05-22 00:04:49
9	cat23Oct	cat23Oct	465	0	2016-10-12 09:12:39	2016-10-14 15:07:03
10	cat23Sep	cat23Sep	196	0	2016-09-14 08:28:45	2016-09-16 05:46:46

> CAT23_TABLE1

	id	nb	X_mean	Y_mean	mean_time	max_dist	mean_speed
1	cat23Apr	234	585524.7	121845.5	758	118	0.03
2	cat23Aug	216	585517.1	121846.4	769	54	0.02
3	cat23Feb	193	585521.1	121849.6	906	73	0.02
4	cat23Jan	82	585534.7	121844.1	2171	100	0.01
5	cat23Jul	438	585513.9	121847.4	423	92	0.05
6	cat23Jun	173	585522.6	121848.3	992	102	0.02
7	cat23Mar	100	585518.7	121841.6	1561	88	0.01
8	cat23May	480	585518.6	121851.2	943	142	0.02
9	cat23Oct	465	585521.2	121849.4	418	131	0.04
10	cat23Sep	196	585522.4	121847.8	836	83	0.03

> MCP100CAT23df

	x	y
2058	2.140147	48.79750
73	2.140866	48.79686
2418	2.140945	48.79670
32	2.140795	48.79657
599	2.140656	48.79646
1428	2.139500	48.79591
1427	2.139004	48.79612
852	2.138131	48.79665
615	2.137989	48.79696
614	2.138062	48.79725
626	2.138546	48.79765
873	2.139504	48.79785
20581	2.140147	48.79750



Cat 24

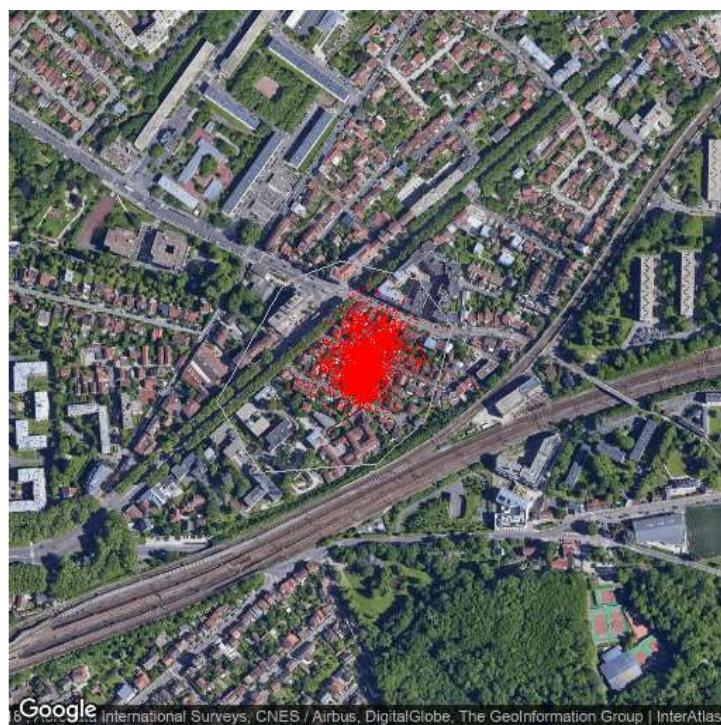
```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id   burst nb.reloc NAs      date.begin      date.end
1 cat24Apr cat24Apr     971 0 2016-04-10 06:26:04 2016-04-12 06:56:55
2 cat24Aug cat24Aug    705 0 2016-08-28 07:39:25 2016-08-30 04:58:02
3 cat24Feb cat24Feb    861 0 2016-02-06 13:01:48 2016-02-08 12:39:48
4 cat24Jan cat24Jan    594 0 2016-01-09 13:17:32 2016-01-11 18:57:36
5 cat24Jul cat24Jul   1167 0 2016-07-09 07:01:15 2016-07-11 07:07:57
6 cat24Jun cat24Jun   1050 0 2016-06-09 05:42:13 2016-06-11 08:48:57
7 cat24Mar cat24Mar    933 0 2016-03-11 08:16:33 2016-03-13 07:42:54
8 cat24May cat24May   1080 0 2016-05-05 14:28:31 2016-05-07 12:27:43
9 cat24Oct cat24Oct   1103 0 2016-10-15 07:27:01 2016-10-17 07:06:55
10 cat24Sep cat24Sep   658 0 2016-09-18 12:14:43 2016-09-20 11:47:22

> CAT24_TABLE1
  id nb  X_mean  Y_mean mean_time max_dist mean_speed
1 cat24Apr 971 587242.4 122214.1    180      114      0.10
2 cat24Aug 705 587242.8 122221.5    232      118      0.07
3 cat24Feb 861 587242.1 122221.8    199      104      0.09
4 cat24Jan 594 587238.8 122219.8    326       84      0.06
5 cat24Jul 1167 587247.6 122220.1    149      115      0.10
6 cat24Jun 1050 587244.1 122214.9    175      180      0.11
7 cat24Mar 933 587241.8 122215.4    183      105      0.09
8 cat24May 1080 587241.3 122221.3    153      122      0.12
9 cat24Oct 1103 587242.2 122217.7    156       92      0.10
10 cat24Sep 658 587243.1 122217.6    261      117      0.07

> MCP100CAT24df
      x        y
8381 2.164150 48.80072
2622 2.163814 48.79996
4835 2.163728 48.79980
4446 2.163019 48.79938
4807 2.161256 48.79929
6997 2.160617 48.80000
6986 2.161633 48.80117
5980 2.162475 48.80138
7912 2.163642 48.80120
83811 2.164150 48.80072
```



Cat 25

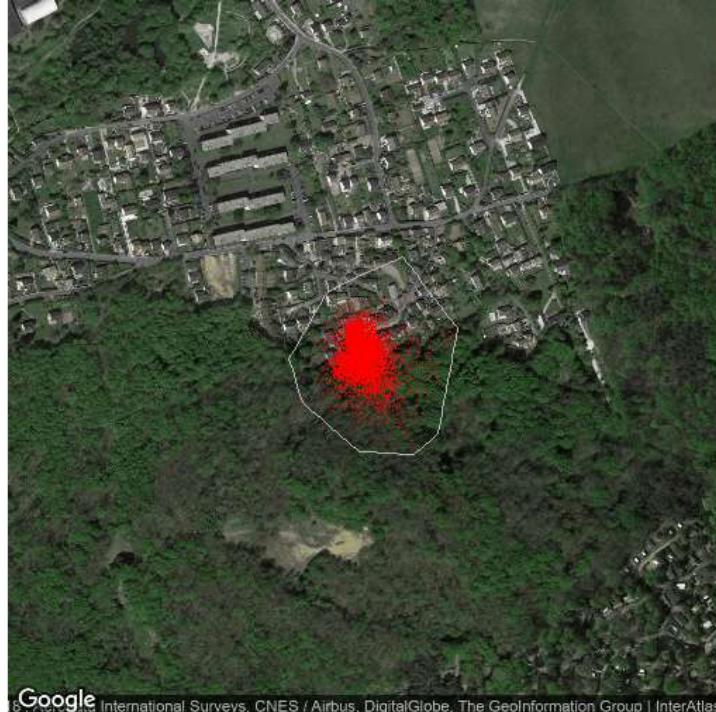
```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id    burst nb.reloc NAs      date.begin      date.end
1 cat25Aug cat25Aug     1495    0 2016-08-23 09:05:09 2016-08-25 10:26:36
2 cat25Feb cat25Feb      529    0 2016-02-06 12:08:58 2016-02-08 07:13:01
3 cat25Mar cat25Mar      935    0 2016-03-05 06:32:40 2016-03-14 06:43:20
4 cat25May cat25May     1408    0 2016-05-01 08:58:03 2016-05-07 16:19:13
5 cat25Oct cat25Oct      705    0 2016-10-16 12:49:21 2016-10-18 15:16:00
6 cat25Sep cat25Sep     1721    0 2016-09-10 05:46:25 2016-09-12 04:19:33

> CAT25_TABLE1
  id nb   X_mean   Y_mean mean_time max_dist mean_speed
1 cat25Aug 1495 584834.6 93977.29      119      116      0.12
2 cat25Feb  529 584843.1 93970.20      294      136      0.06
3 cat25Mar  935 584847.5 93970.58      833       88      0.02
4 cat25May 1408 584844.8 93969.08      387      106      0.05
5 cat25Oct  705 584839.1 93972.99      258      123      0.07
6 cat25Sep 1721 584832.4 93974.24       97      116      0.15

> MCP100CAT25df
      x        y
1409 2.132572 48.54657
279  2.132280 48.54553
1095 2.131924 48.54531
5476 2.131443 48.54533
5679 2.131086 48.54535
324  2.130650 48.54559
362  2.130242 48.54583
1385 2.130043 48.54627
5186 2.130579 48.54689
2635 2.130720 48.54697
6148 2.131740 48.54727
14091 2.132572 48.54657
```



Cat 26

```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id   burst nb_reloc NAs      date.begin      date.end
1 cat26Apr cat26Apr     566 0 2016-04-10 09:59:54 2016-04-11 20:13:00
2 cat26Feb cat26Feb     265 0 2016-02-06 10:03:31 2016-02-07 19:17:22
3 cat26Jan cat26Jan     247 0 2016-01-09 06:36:06 2016-01-10 18:41:56
4 cat26Jun cat26Jun     571 0 2016-06-19 08:37:40 2016-06-20 17:00:32
5 cat26Mar cat26Mar     216 0 2016-03-19 10:10:48 2016-03-20 22:51:33
6 cat26May cat26May     702 0 2016-05-07 10:08:45 2016-05-08 19:28:45
7 cat26Sep cat26Sep     976 0 2016-09-24 08:45:32 2016-09-25 13:30:19

> CAT26_TABLE1
  id nb X_mean Y_mean mean_time max_dist mean_speed
1 cat26Apr 566 597516.2 123538.8       218       226      0.14
2 cat26Feb 265 597511.1 123509.4       453       180      0.04
3 cat26Jan 247 597519.8 123512.0       528       195      0.04
4 cat26Jun 571 597503.1 123512.3       205       194      0.09
5 cat26Mar 216 597506.8 123507.6       614       109      0.03
6 cat26May 702 597513.6 123515.3       171       207      0.10
7 cat26Sep 976 597498.8 123496.7       106       134      0.17

> MCP100CAT26df
  x      y
977 2.305922 48.81233
1676 2.305161 48.81128
1675 2.303639 48.80971
2311 2.300504 48.81027
1171 2.300202 48.81190
408  2.301849 48.81385
858  2.303622 48.81400
9771 2.305922 48.81233
```



Cat 27

```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id  burst nb_reloc NAs      date.begin      date.end
1 cat27Apr cat27Apr     710 0 2016-04-11 17:18:04 2016-04-13 17:07:04
2 cat27Aug cat27Aug    1596 0 2016-08-26 18:48:17 2016-08-28 17:29:11
3 cat27Feb cat27Feb     375 0 2016-02-05 22:43:52 2016-02-07 18:55:03
4 cat27Jun cat27Jun     544 0 2016-06-17 07:04:08 2016-06-19 08:26:35
5 cat27Mar cat27Mar     631 0 2016-03-13 18:00:27 2016-03-15 17:24:54
6 cat27May cat27May    1026 0 2016-05-18 17:25:55 2016-05-20 16:19:57
7 cat27Oct cat27Oct     264 0 2016-10-15 16:19:26 2016-10-16 00:52:55
8 cat27Sep cat27Sep     271 0 2016-09-19 21:49:06 2016-09-20 17:45:09

> CAT27_TABLE1
   id nb   X_mean   Y_mean mean_time max_dist mean_speed
1 cat27Apr 710 608386.8 128131.1     243     128     0.06
2 cat27Aug 1596 608384.9 128133.0     105     144     0.14
3 cat27Feb  375 608386.8 128136.6     425      73     0.04
4 cat27Jun  544 608388.3 128135.3     327      80     0.05
5 cat27Mar  631 608385.5 128130.3     271     122     0.06
6 cat27May 1026 608386.5 128134.8     165      84     0.09
7 cat27Oct  264 608383.1 128124.9     117     140     0.14
8 cat27Sep  271 608412.2 128139.7     266     209     0.09

> MCP100CAT27df
      x         y
4984 2.452636 48.85423
5026 2.451963 48.85255
5025 2.451582 48.85239
4927 2.450559 48.85259
3500 2.449168 48.85309
3571 2.449048 48.85345
984  2.450169 48.85468
4968 2.452565 48.85434
49841 2.452636 48.85423
```



Cat 28

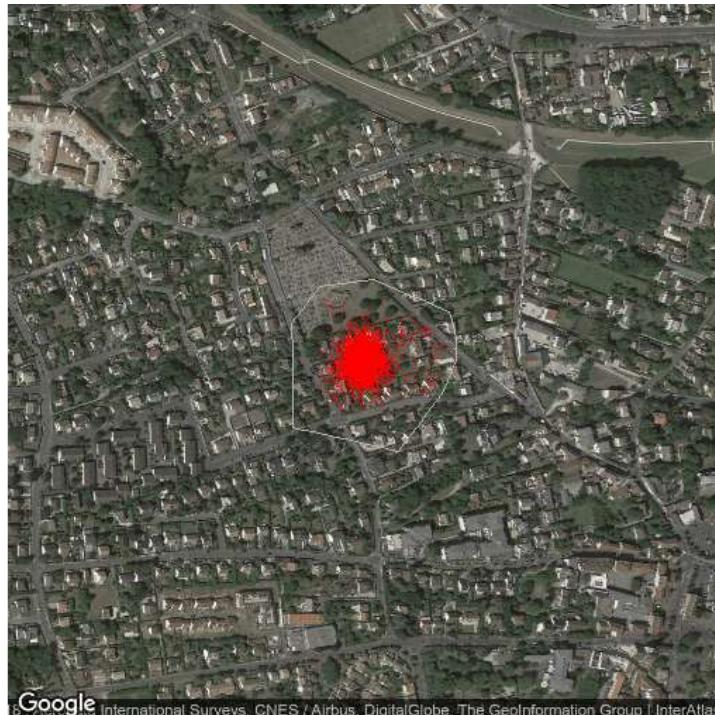
```
***** List of class ltraj *****

Type of the traject: Type II (time recorded)
* Time zone: GMT *
Irregular traject. Variable time lag between two locs

Characteristics of the bursts:
  id   burst nb_reloc NAs      date.begin      date.end
1 cat28Apr cat28Apr     1613     0 2016-04-09 10:05:26 2016-04-10 22:00:36
2 cat28Aug cat28Aug     1404     0 2016-08-22 07:00:52 2016-08-24 08:05:04
3 cat28Feb cat28Feb      677     0 2016-02-06 08:15:03 2016-02-08 07:58:13
4 cat28Jan cat28Jan     1091     0 2016-01-16 07:01:10 2016-01-17 23:59:04
5 cat28Jul cat28Jul     1235     0 2016-07-15 06:56:01 2016-07-17 08:56:02
6 cat28Jun cat28Jun     1382     0 2016-06-13 06:10:20 2016-06-14 21:38:11
7 cat28Mar cat28Mar     1493     0 2016-03-13 08:27:51 2016-03-15 07:44:54
8 cat28May cat28May     1370     0 2016-05-07 06:38:03 2016-05-08 23:36:15

> CAT28_TABLE1
  _id nb   X_mean   Y_mean mean_time max_dist mean_speed
1 cat28Apr 1613 614154.4 113743.7      80      101      0.06
2 cat28Aug 1404 614156.1 113743.9      126      92      0.11
3 cat28Feb  677 614154.5 113743.7      254      137      0.07
4 cat28Jan 1091 614152.3 113743.1      135      86      0.12
5 cat28Jul 1235 614156.3 113743.8      146      111      0.08
6 cat28Jun 1382 614149.8 113745.0      103      117      0.12
7 cat28Mar 1493 614151.2 113742.6      114      94      0.13
8 cat28May 1370 614151.7 113744.4      108      108      0.12

> MCP100CAT28df
      x       y
3596 2.530256 48.72433
6757 2.530247 48.72412
8135 2.530065 48.72380
7051 2.529377 48.72321
8773 2.527807 48.72344
1361 2.527785 48.72447
1841 2.528205 48.72483
9086 2.529016 48.72491
8332 2.530141 48.72458
35961 2.530256 48.72433
```



Cat 29

***** List of class ltraj *****

Type of the traject: Type II (time recorded)

* Time zone: GMT *

Irregular traject. Variable time lag between two locs

Characteristics of the bursts:

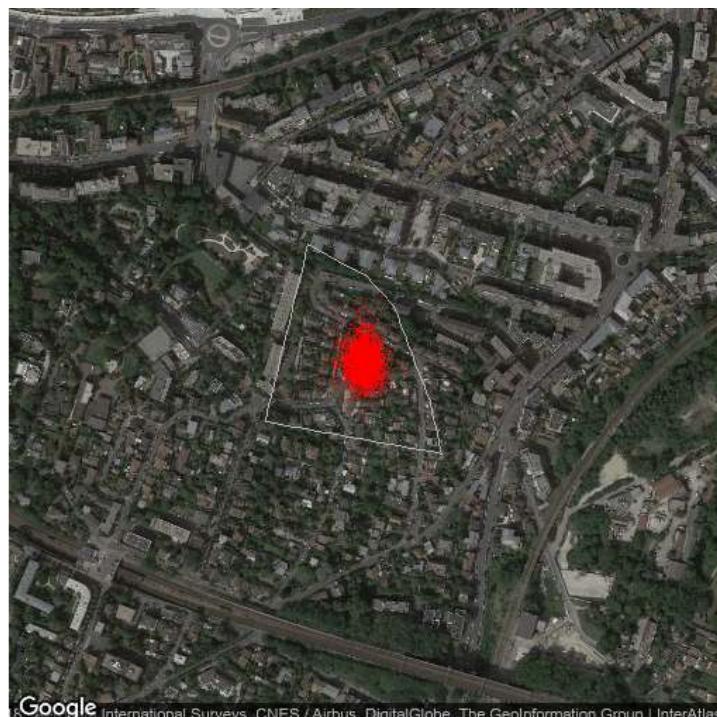
	id	burst	nb.reloc	NAs	date.begin	date.end
1	cat29Apr	cat29Apr	1302	0	2016-04-15 19:05:51	2016-04-17 19:25:17
2	cat29Aug	cat29Aug	2191	0	2016-08-23 07:51:27	2016-08-25 04:41:08
3	cat29Feb	cat29Feb	912	0	2016-02-13 20:50:24	2016-02-15 19:31:25
4	cat29Jan	cat29Jan	767	0	2016-01-05 09:21:37	2016-01-07 08:34:19
5	cat29Jul	cat29Jul	2497	0	2016-07-15 14:54:43	2016-07-17 15:58:48
6	cat29Jun	cat29Jun	2357	0	2016-06-17 20:37:52	2016-06-19 20:12:33
7	cat29Mar	cat29Mar	742	0	2016-03-12 18:28:28	2016-03-14 18:57:29
8	cat29May	cat29May	2251	0	2016-05-06 08:11:23	2016-05-09 12:28:05
9	cat29Oct	cat29Oct	1301	0	2016-10-01 00:00:02	2016-10-02 00:02:59
10	cat29Sep	cat29Sep	3257	0	2016-09-15 14:58:17	2016-09-30 23:59:01

> CAT29_TABLE1

	id	nb	X_mean	Y_mean	mean_time	max_dist	mean_speed
1	cat29Apr	1302	593288.2	124031.3	134	81	0.11
2	cat29Aug	2191	593287.9	124033.3	74	173	0.05
3	cat29Feb	912	593286.3	124033.2	184	101	0.08
4	cat29Jan	767	593286.1	124035.2	222	116	0.08
5	cat29Jul	2497	593287.7	124038.0	71	59	0.05
6	cat29Jun	2357	593290.1	124033.3	73	70	0.07
7	cat29Mar	742	593285.8	124034.4	236	125	0.07
8	cat29May	2251	593287.5	124033.8	122	71	0.03
9	cat29Oct	1301	593287.8	124032.8	67	46	0.06
10	cat29Sep	3257	593288.2	124033.7	408	82	0.02

> MCP100CAT29df

	x	y
53	2.245531	48.81734
10836	2.246072	48.81640
10835	2.246247	48.81589
2343	2.243600	48.81620
52	2.244247	48.81795
2880	2.245119	48.81763
13025	2.245349	48.81748
531	2.245531	48.81734



Cat 30

***** List of class ltraj *****

Type of the traject: Type II (time recorded)

* Time zone: GMT *

Irregular traject. Variable time lag between two locs

Characteristics of the bursts:

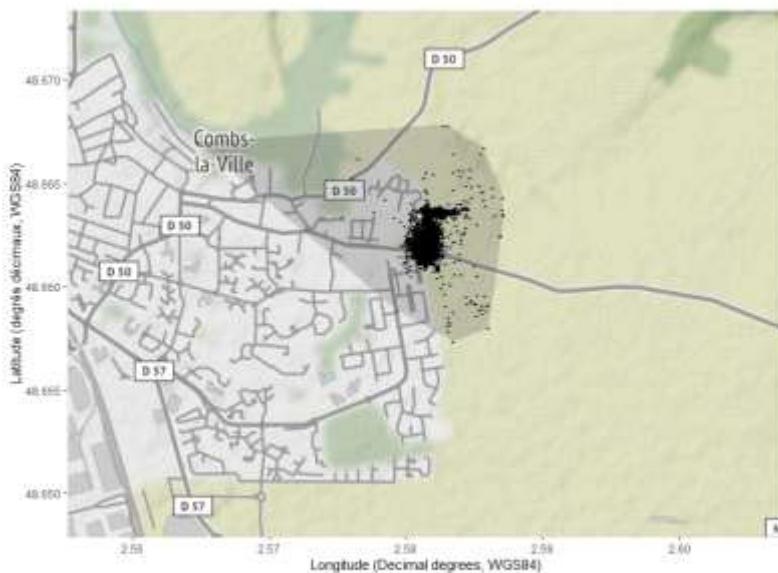
	id	burst	nb.reloc	NAs	date.begin	date.end
1	cat30Apr	cat30Apr	1503	0	2016-04-12 20:45:51	2016-04-15 04:46:47
2	cat30Aug	cat30Aug	1525	0	2016-08-10 18:21:01	2016-08-13 06:08:08
3	cat30Feb	cat30Feb	1330	0	2016-02-10 13:07:51	2016-02-12 18:13:08
4	cat30Jan	cat30Jan	969	0	2016-01-08 12:42:06	2016-01-13 17:42:43
5	cat30Jul	cat30Jul	1444	0	2016-07-13 13:54:41	2016-07-15 19:26:47
6	cat30Jun	cat30Jun	2008	0	2016-06-06 14:18:04	2016-06-11 04:26:55
7	cat30Mar	cat30Mar	938	0	2016-03-11 06:22:13	2016-03-13 06:02:05
8	cat30May	cat30May	456	0	2016-05-19 06:54:37	2016-05-20 06:08:14
9	cat30Oct	cat30Oct	948	0	2016-10-12 06:27:02	2016-10-14 23:59:27
10	cat30Sep	cat30Sep	2066	0	2016-09-10 07:30:59	2016-09-13 06:09:45

> CAT30_TABLE1

	id	nb	X_mean	Y_mean	mean_time	max_dist	mean_speed
1	cat30Apr	1503	618034.9	106837.1	134	126	0.09
2	cat30Aug	1525	618063.0	106909.9	141	427	0.12
3	cat30Feb	1330	618033.2	106863.5	144	161	0.16
4	cat30Jan	969	618037.8	106842.1	465	208	0.04
5	cat30Jul	1444	618041.9	106848.7	134	245	0.11
6	cat30Jun	2008	618040.1	106861.7	198	189	0.08
7	cat30Mar	938	618046.9	106851.3	183	1327	0.28
8	cat30May	456	618048.8	106865.1	184	149	0.10
9	cat30Oct	948	618056.1	106900.5	249	208	0.06
10	cat30Sep	2066	618054.6	106888.9	123	342	0.11

> MCP100CAT30df

	x	y
2897	2.587127	48.66430
2875	2.587145	48.66342
2936	2.586038	48.65798
2854	2.583461	48.65736
2832	2.579397	48.65884
2943	2.564766	48.66699
2942	2.582739	48.66783
2941	2.583131	48.66778
2902	2.585660	48.66672
28971	2.587127	48.66430



Map based on OpenStreetMap package.