

## Supplementary material 1

Table S1. The localities in the Asian part of Russia where gall-forming poplar aphids were sampled by our team in 2005–2022

No.	Region	Locality	Latitude	Longitude	Sampling year
Siberia					
1	Tyumen Region, Khanty-Mansi Autonomous Okrug	Surgut, street planting	61°33'N	73°40'E	2017
2	Omsk Region	Omsk, street planting	55°02'N	73°28'E	2020
3	Tomsk Region	Tomsk, street planting	56°46'N	84°94'E	2021
4	Novosibirsk Region	Novosibirsk, Central Siberian Botanic Garden	54°81'N	83°12'E	2013
5	Altai Republic	Biysk district, Shebalino village	51°29'N	85°67'E	2019
6		Kosh-Agach district, Chagan-Uzun village	50°10'N	88°36'E	2012
7		Kosh-Agach district, Kuraiskaya Steppe	50°20'N	87°93'E	2013
8		Onguday district, Onguday village	50°76'N	86°12'E	2019
9		Onguday district, Onguday village	50°74'N	86°13'E	2019
10		Onguday district, Shashikman village	50°79'N	86°05'E	2019
11	Kemerovo Region	Mezhdurechensk, street planting	53°41'N	88°01'E	2013
12		Mezhdurechensk district, Teba	53°64'N	88°55'E	2013
13	Khakassia Republic	Abakan, street planting	53°72'N	91°47'E	2016
14		Askiz district, Balyksa village	53°42'N	89°14'E	2013
15		Ordzhonikidzevskiy district, Ordzhonikidze village	54°77'N	88°98'E	2005
16		Shirinskiy district, Belyi Iyus river	54°63'N	89°64'E	2011
17		Shirinskiy district, Chjernoe Ozerovillage	54°68'N	89°43'E	2022
18		Shirinskiy district, Shira	54°48'N	89°96'E	2006
19		Shirinskiy district, Solenoozernoye village	54°74'N	89°90'E	2010
20	Krasnoyarsk Territory (beginning)	Boguchany district, Boguchany	58°37'N	97°44'E	2022
21		Boguchany district, Nevonka	58°42'N	98°32'E	2022
22		Emelyanovo district, Chastoostrovnoe village	56°18'N	93°32'E	2009
23		Emelyanovo district, Emelyanovo	56°16'N	92°66'E	2010
24		Emelyanovo district, Shuvaevo village	56°18'N	92°89'E	2020
25		Ermakovskiy district, Verkhneusinskoye village	52°23'N	92°98'E	2017
26		Evenkijskiy district, Tura	64°27'N	100°21'E	2020
27		Kansk, street planting	56°21'N	95°70'E	2022
28		Karatuzskiy district, Kazyr river	53°79'N	92°92'E	2021

No.	Region	Locality	Latitude	Longitude	Sampling year	
29	Krasnoyarsk Territory (end)	Karatuzskiy district, Kachulka village	53°76'N	92°91'E	2021	
30		Kezhemskiy district, Kodinsk	58°60'N	99°17'E	2022	
31		Kuraginskiy district, Ust-Shush village	53°90'N	92°29'E	2021	
32		Kuraginsky district, Kuragino	53°86'N	92°61'E	2021	
33		Minusinsk, street planting	53°70'N	91°69'E	2019	
34		Minusinsk district, Gorodok village	53°93'N	91°82'E	2021	
35		Minusinsk district, Lugavskoye village	53°52'N	91°79'E	2019	
36		Novoselovo district, Tolstyi Mys village	54°96'N	90°74'E	2011	
37		Sukhobuzimo district, Minderla	56°43'N	92°96'E	2009	
38		Uzhur district, Uzhur	55°32'N	89°84'E	2012	
39		Zheleznogorsk, street planting	56°25'N	93°50'E	2020	
40		Tuva Republic	Chedi-Kholskiy kozhuun, Khovu-Aksy village	51°13'N	93°71'E	2018
41			Erzin kozhuun, Moren river	50°36'N	95°40'E	2022
42	Erzin kozhuun, Zugeer-Els sands		50°19'N	95°17'E	2022	
43	Kyzyl, street planting		51°72'N	94°45'E	2016	
44	Tes-Khemskiy kozhuun, Aryskannyg-Khem river		50°76'N	94°48'E	2022	
45	Tes-Khemskiy kozhuun, Khol-Ozhu village		50°74'N	94°41'E	2022	
46	Irkutsk Region	Bayanday district, Bayanday	53°08'N	105°53'E	2021	
47	Buryatia Republic	Dzhidinskiy district, Borgoiskiy Nature Reserve	50°55'N	105°28'E	2016	
48		Ulan-Ude, street planting	51°83'N	107°58'E	2016	
49	Zabaikalskiy Territory	Mogocha, street planting	53°73'N	119°76'E	2016	
The Russian Far East						
50	Amur Region	Blagoveshchensk, street planting	50°26'N	127°57'E	2021	
51		Skovorodino district, Skovorodino	53°98'N	123°92'E	2016	
52		Tyndinskiy district, Solovyovsk	54°23'N	124°44'E	2021	
53	Khabarovsk Territory	Khabarovsk, street planting	48°54'N	135°03'E	2016	
The Urals*						
54	Bashkortostan Republic	Ordzhonikidzevskiy district, Votikeevo village	54°87'N	56°22'E	2019	

\* To clarify the distribution of *Pemphigus spyrothecae* on the border of Europe and Asia, the galls with aphids were also collected in Bashkortostan Republic (west of the Urals).