

Supplementary Materials

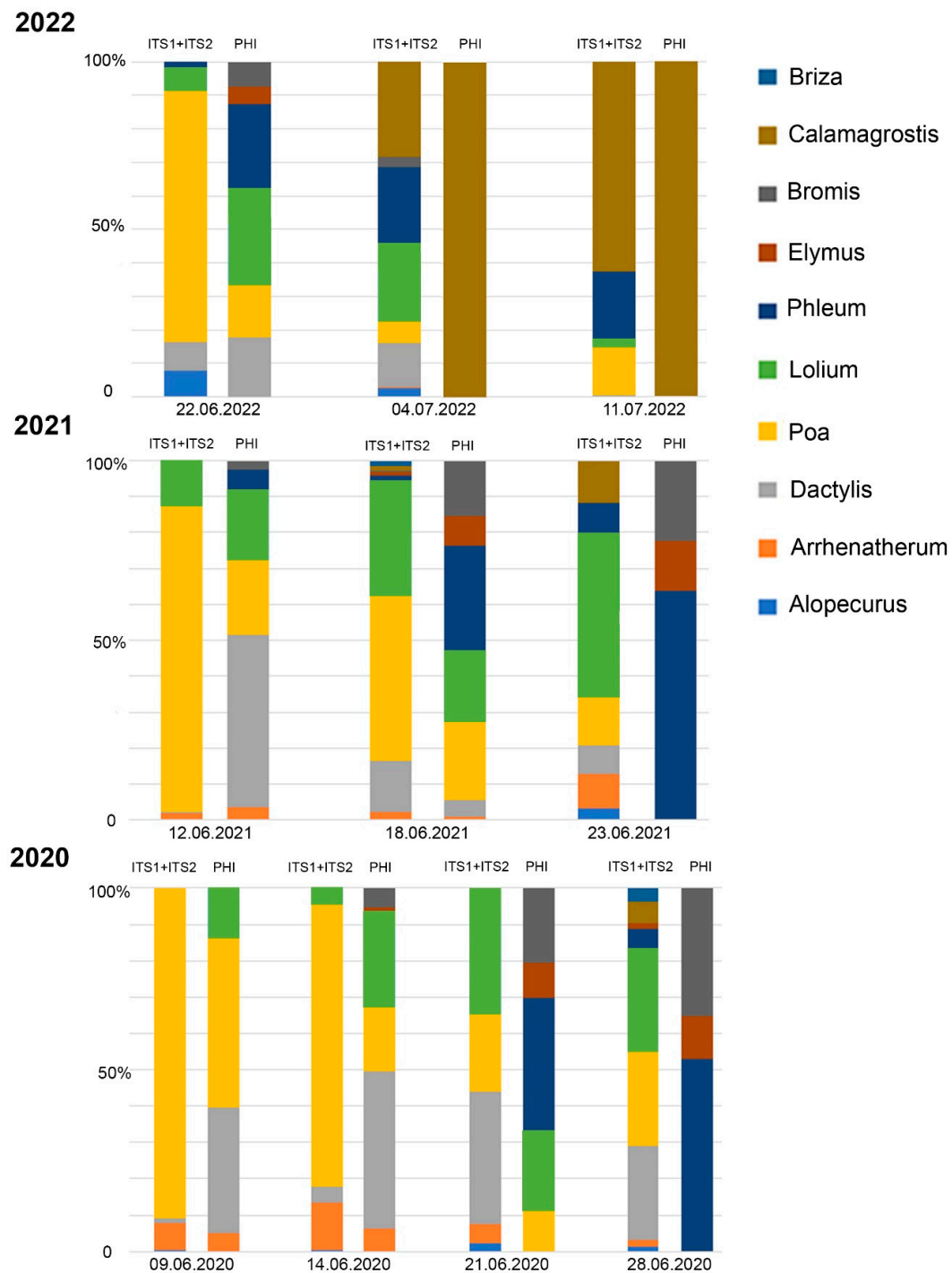


Figure S1. Comparison of metabarcoding results and phenological observations, Moscow 2020-2022. PHI – phenological index

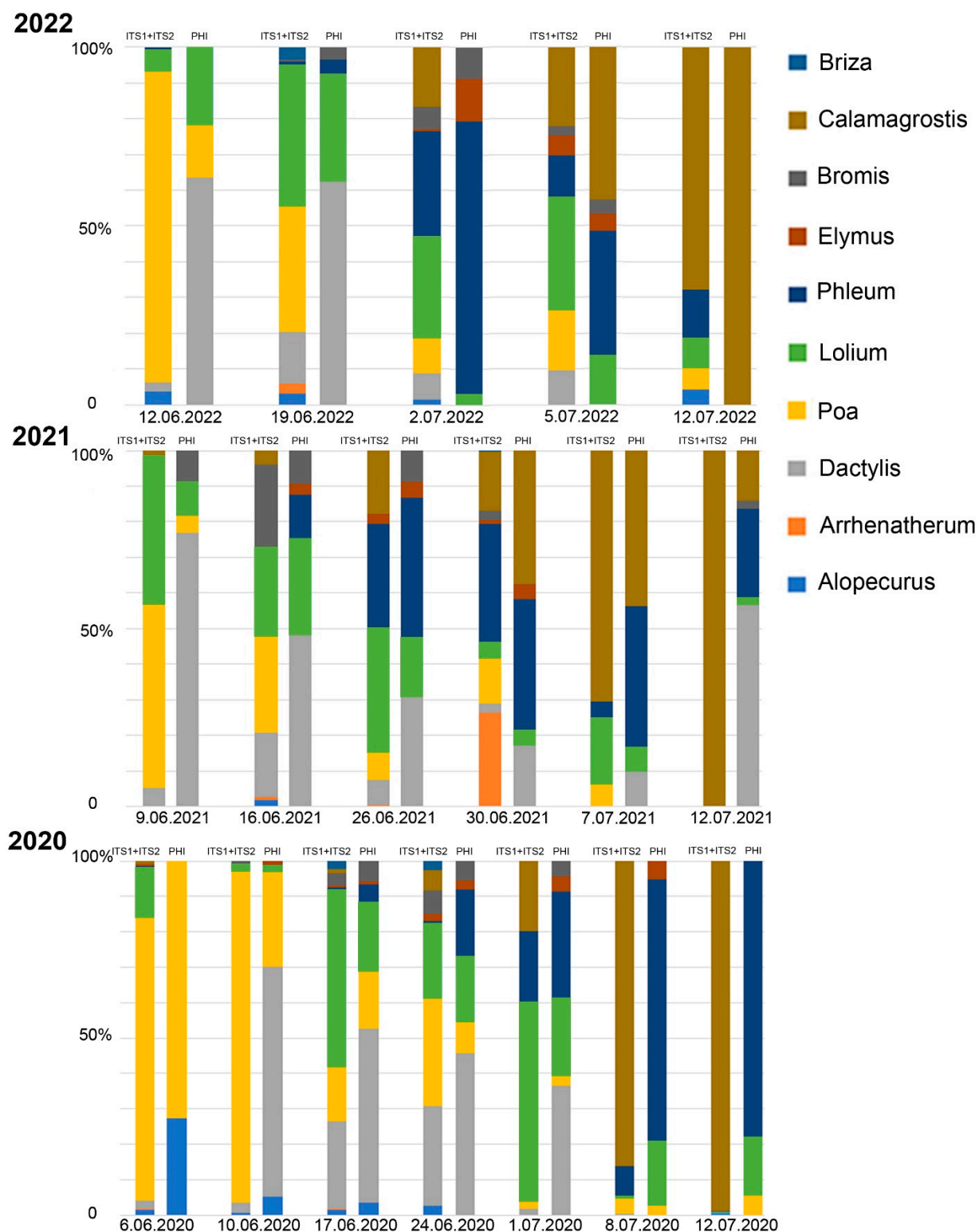


Figure S2. Comparison of metabarcoding results and phenological observations, Ryazan, 2020-2022. PHI – phenological index

Table S1. List of samples.

Moscow			Rvazan		
2020	2021	2022	2020	2021	2022
p1 09-10.06	p23 12-13.06	p35 21-22.06	p48 06-07.06	p85 07-08.06	p113 12-13.06
p2 10-11.06	p24 13-14.06	p36 22-23.06	p49 07-08.06	p86 08-09.06	p114 13-14.06
p3 11-12.06	p25 14-15.06	p37 23-24.06	p50 08-09.06	p87 09-10.06	p115 14-15.06
p4 12-13.06	p26 15-16.06	p38 24-25.06	p51 09-10.06	p88 10-11.06	p116 15-16.06
p5 13-14.06	p27 16-17.06	p39 28-29.06	p52 10-11.06	p89 11-12.06	p117 16-17.06
p6 14-15.06	p28 17-18.06	p40 29-30.06	p53 11-12.06	p90 12-13.06	p118 17-18.06
p7 15-16.06	p29 18-19.06	p41 30.06-1.07	p54 12-13.06	p91 13-14.06	p119 18-19.06
p8 16-17.06	p30 19-20.06	p42 01-02.07	p55 13-14.06	p92 14-15.06	p120 19-20.06
p9 17-18.06	p31 20-21.06	p43 02-03.07	p56 14-15.06	p93 15-16.06	p121 02-03.07
p10 18-19.06	p32 21-22.06	p44 03-04.07	p57 15-16.06	p94 16-17.06	p122 03-04.07
p11 19-20.06	p33 22-23.06	p45 04-05.07	p58 16-17.06	p95 17-18.06	p123 04-05.07
p12 20-21.06	p34 23-24.06	p46 10-11.07	p59 17-18.06	p96 18-19.06	p124 05-06.07
p13 21-22.06		p47 11-12.07	p60 18-19.06	p97 19-20.06	p125 06-07.07
p14 22-23.06			p61 19-20.06	p98 26-27.06	p126 07-08.07
p15 23-24.06			p62 20-21.06	p99 27-28.06	p127 08-09.07
p16 24-25.06			p63 21-22.06	p100 28-29.06	p128 09-10.07
p17 25-26.06			p64 22-23.06	p101 29-30.06	p129 10-11.07
p18 26-27.06			p65 23-24.06	p102 30.06-1.07	p130 11-12.07
p19 27-28.06			p66 24-25.06	p103 01-02.07	p131 12-13.07
p20 28-29.06			p67 25-26.06	p104 02-03.07	
p21 29-30.06			p68 26-27.06	p105 03-04.07	
p22 30.06-1.07			p69 27-28.06	p106 04-05.07	
			p70 28-29.06	p107 07-08.07	
			p71 29-30.06	p108 08-09.07	
			p72 30.06-1.07	p109 09-10.07	
			p73 01-02.07	p110 10-11.07	
			p74 02-03.07	p111 11-12.07	

			p75_03-04.07	p112_12-13.07	
			p76_04-05.07		
			p77_05-06.07		
			p78_06-07.07		
			p79_07-08.07		
			p80_08-09.07		
			p81_09-10.07		
			p82_10-11.07		
			p83_11-12.07		
			p84_12-03.07		

Table S2. List of species observed on sample plots. All species names are according to <https://powo.science.kew.org/> Dominated species are in **bold**.

	Moscow									Ryazan'				
	№ of sample plot									№ of sample plot				
Species	1	2	3	4	5	6	7	8	9	1	2	3	4	5
<i>Alopecurus pratensis</i> L.	x									x				
<i>Arrhenatherum elatius</i> (L.) P. Beauv. ex J. & C. Presl.	x			x		x								
<i>Briza media</i> L.	x													
<i>Bromus inermis</i> Leyss.	x		x							x			x	x
<i>Calamagrostis epigejos</i> (L.) Roth	x	x	x				x						x	x
<i>Dactylis glomerata</i> L.	x	x	x	x	x	x	x		x	x	x	x	x	x
<i>Elymus repens</i> (L.) Gould	x	x	x	x	x		x			x	x			x
<i>Lolium pratense</i> (Huds.) Darbysh.	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>Lolium perenne</i> L.			x	x				x	x	x		x		
<i>Phleum pratense</i> L.	x	x	x				x	x	x	x	x	x	x	x
<i>Poa annua</i> L.						x						x	x	x
<i>Poa pratensis</i> L.	x	x		x	x	x	x	x	x	x	x		x	x
<i>Poa trivialis</i> L.	x	x	x				x					x		