

SUPPORTING INFORMATION 2 / MATERIALI SUPPLEMENTARI 2

Temporal trends in abundance and phenology of migratory birds across the Italian Alps during a 20-year period

Results of the model selection for the inter-annual variation in phenology of 23 species (degree of freedom, AIC estimator, log-likelihood). / Risultati della selezione dei modelli che testano la variazione annuale della fenologia per 23 specie.

Specie	MODP1			MODP2		
	df	AIC	LogLik	df	AIC	LogLik
<i>Anthus trivialis</i>	2	4010.90	-2003.45	3	3997.43	-1995.72
<i>Troglodytes troglodytes</i>	2	13140.24	-6568.12	3	13115.55	-6554.78
<i>Prunella modularis</i>	2	18752.79	-9374.39	3	18732.57	-9363.28
<i>Erithacus rubecula</i>	2	276371.44	-138183.72	3	276291.81	-138142.90
<i>Phoenicurus ochruros</i>	2	7162.42	-3579.21	3	7163.97	-3578.99
<i>Phoenicurus phonicurus</i>	2	20174.70	-10085.35	3	20174.81	-10084.41
<i>Turdus merula</i>	2	15897.20	-7946.60	3	15862.84	-7928.42
<i>Turdus philomelos</i>	2	26701.47	-13348.74	3	26703.35	-13348.67
<i>Sylvia atricapilla</i>	2	44008.68	-22002.34	3	44002.18	-21998.09
<i>Sylvia borin</i>	2	13462.36	-6729.18	3	13454.05	-6724.02
<i>Phylloscopus collybita</i>	2	60368.80	-30182.40	3	60367.67	-30180.83
<i>Phylloscopus trochilus</i>	2	25728.85	-12862.42	3	25715.34	-12854.67
<i>Regulus regulus</i>	2	112054.47	-56025.24	3	111974.73	-55984.37
<i>Regulus ignicapilla</i>	2	8344.80	-4170.40	3	8346.80	-4170.40
<i>Ficedula hypoleuca</i>	2	133589.95	-66792.98	3	133542.23	-66768.11
<i>Periparus ater</i>	2	104514.82	-52255.41	3	104333.73	-52163.86
<i>Cyanistes caeruleus</i>	2	19225.48	-9610.74	3	19126.19	-9560.09
<i>Parus major</i>	2	5166.18	-2581.09	3	5160.45	-2577.22
<i>Fringilla coelebs</i>	2	374954.85	-187475.43	3	374459.37	-187226.69
<i>Fringilla montifringilla</i>	2	93816.30	-46906.15	3	93816.52	-46905.26
<i>Spinus spinus</i>	2	304385.76	-152190.88	3	304224.58	-152109.29
<i>Loxia curvirostra</i>	2	38775.84	-19385.92	3	38766.43	-19380.21
<i>Coccothraustes coccothraustes</i>	2	110035.85	-55015.93	3	109721.79	-54857.89

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Specie	MODP3			MODP4		
	df	AIC	LogLik	df	AIC	LogLik
<i>Anthus trivialis</i>	18	3944.22	-1954.11	3	3930.51	-1962.25
<i>Troglodytes troglodytes</i>	18	13082.11	-6523.06	5	12926.48	-6458.24
<i>Prunella modularis</i>	18	18647.08	-9305.54	5	17776.92	-8883.46
<i>Erithacus rubecula</i>	18	275383.36	-137673.68	7	273557.91	-136771.95
<i>Phoenicurus ochruros</i>	18	7149.78	-3556.89	4	6968.77	-3480.39
<i>Phoenicurus phonicurus</i>	18	20105.26	-10034.63	6	20048.42	-10018.21
<i>Turdus merula</i>	18	15834.02	-7899.01	6	15765.05	-7876.52
<i>Turdus philomelos</i>	18	26469.38	-13216.69	5	26356.17	-13173.09
<i>Sylvia atricapilla</i>	18	43841.29	-21902.64	4	43978.76	-21985.38
<i>Sylvia borin</i>	18	13398.83	-6681.41	3	13461.82	-6727.91
<i>Phylloscopus collybita</i>	18	60057.47	-30010.73	6	59669.66	-29828.83
<i>Phylloscopus trochilus</i>	18	25613.71	-12788.86	6	25627.22	-12807.61
<i>Regulus regulus</i>	18	110575.37	-55269.68	6	109410.82	-54699.41
<i>Regulus ignicapilla</i>	18	8355.34	-4159.67	3	8226.99	-4110.50
<i>Ficedula hypoleuca</i>	18	132095.65	-66029.83	6	132718.82	-66353.41
<i>Periparus ater</i>	18	102324.52	-51144.26	4	104462.74	-52227.37
<i>Cyanistes caeruleus</i>	18	18941.07	-9452.53	4	19216.88	-9604.44
<i>Parus major</i>	18	5161.72	-2562.86	4	5092.04	-2542.02
<i>Fringilla coelebs</i>	18	372168.14	-186066.07	7	367127.74	-183556.87
<i>Fringilla montifringilla</i>	18	90399.00	-45181.50	5	88834.74	-44412.37
<i>Spinus spinus</i>	18	300418.02	-150191.01	5	301248.43	-150619.22
<i>Loxia curvirostra</i>	18	38253.13	-19108.57	5	38469.68	-19229.84
<i>Coccothraustes coccothraustes</i>	18	105385.06	-52674.53	5	108181.68	-54085.84

Specie	MODP5			MODP6		
	df	AIC	LogLik	df	AIC	LogLik
<i>Anthus trivialis</i>	4	3927.42	-1959.71	5	3929.30	-1914.77
<i>Troglodytes troglodytes</i>	6	12884.09	-6436.04	9	12881.34	-6349.82
<i>Prunella modularis</i>	6	17625.49	-8806.74	9	17592.70	-8651.52
<i>Erithacus rubecula</i>	8	273431.15	-136707.57	13	273407.90	-135574.12
<i>Phoenicurus ochruros</i>	5	6967.24	-3478.62	7	6964.93	-3399.08
<i>Phoenicurus phonicurus</i>	7	20045.80	-10015.90	11	19971.68	-9857.24
<i>Turdus merula</i>	7	15744.85	-7865.43	11	15730.67	-7764.07
<i>Turdus philomelos</i>	6	26354.68	-13171.34	9	26347.99	-12870.68
<i>Sylvia atricapilla</i>	5	43975.71	-21982.86	7	43974.29	-21824.69
<i>Sylvia borin</i>	4	13452.47	-6722.24	5	13453.18	-6660.70
<i>Phylloscopus collybita</i>	7	59658.50	-29822.25	11	59647.30	-29523.37
<i>Phylloscopus trochilus</i>	7	25626.19	-12806.10	11	25631.18	-12606.52
<i>Regulus regulus</i>	7	109386.56	-54686.28	11	109052.30	-53084.16
<i>Regulus ignicapilla</i>	4	8227.53	-4109.77	5	8227.81	-4064.30
<i>Ficedula hypoleuca</i>	7	132682.12	-66334.06	11	132686.69	-65126.18
<i>Periparus ater</i>	5	104255.00	-52122.50	7	104239.09	-50766.85
<i>Cyanistes caeruleus</i>	5	19117.55	-9553.77	7	19102.76	-9372.16
<i>Parus major</i>	5	5088.28	-2539.14	7	5091.48	-2477.39
<i>Fringilla coelebs</i>	8	366652.81	-183318.41	13	365885.32	-180824.99
<i>Fringilla montifringilla</i>	6	88794.56	-44391.28	9	88355.71	-41725.39
<i>Spinus spinus</i>	6	301093.66	-150540.83	9	300608.15	-147145.25
<i>Loxia curvirostra</i>	6	38457.62	-19222.81	9	38340.81	-18524.99
<i>Coccothraustes coccothraustes</i>	6	107925.45	-53956.72	9	107865.77	-51387.00

Specie	MODP7			MODP8		
	df	AIC	LogLik	df	AIC	LogLik
<i>Anthus trivialis</i>	19	3902.90	-1932.45	35	3899.55	-1959.65
<i>Troglodytes troglodytes</i>	21	12852.01	-6405.01	69	12837.64	-6431.67
<i>Prunella modularis</i>	21	17532.71	-8745.35	69	17441.05	-8787.35
<i>Erithacus rubecula</i>	23	272513.23	-136233.62	103	271354.23	-136690.95
<i>Phoenicurus ochruros</i>	20	6945.10	-3452.55	52	6902.16	-3475.46
<i>Phoenicurus phonicurus</i>	22	19988.15	-9972.07	86	19886.47	-9974.84
<i>Turdus merula</i>	22	15725.76	-7840.88	86	15700.15	-7854.33
<i>Turdus philomelos</i>	21	26134.80	-13046.40	68	25877.36	-13165.00
<i>Sylvia atricapilla</i>	20	43813.78	-21886.89	52	43753.37	-21980.15
<i>Sylvia borin</i>	19	13393.94	-6677.97	35	13391.40	-6721.59
<i>Phylloscopus collybita</i>	22	59407.37	-29681.68	86	59218.74	-29812.65
<i>Phylloscopus trochilus</i>	22	25533.09	-12744.55	86	25385.04	-12804.59
<i>Regulus regulus</i>	22	107945.12	-53950.56	76	106320.32	-54515.15
<i>Regulus ignicapilla</i>	19	8225.91	-4093.95	35	8198.60	-4108.91
<i>Ficedula hypoleuca</i>	22	131285.56	-65620.78	83	130418.36	-66332.34
<i>Periparus ater</i>	20	102175.67	-51067.84	52	101637.71	-52112.54
<i>Cyanistes caeruleus</i>	20	18919.11	-9439.55	51	18846.32	-9544.38
<i>Parus major</i>	20	5080.68	-2520.34	51	5056.78	-2538.74
<i>Fringilla coelebs</i>	23	364805.12	-182379.56	100	361849.98	-182929.66
<i>Fringilla montifringilla</i>	21	86598.22	-43278.11	68	83586.78	-44168.86
<i>Spinus spinus</i>	21	297234.35	-148596.18	69	294428.50	-150295.08
<i>Loxia curvirostra</i>	21	38050.70	-19004.35	62	37173.97	-19161.40
<i>Coccothraustes coccothraustes</i>	21	103812.07	-51885.04	69	102912.00	-53923.88

Specie	MODP9			MODP10		
	df	AIC	LogLik	df	AIC	LogLik
<i>Anthus trivialis</i>	3	3960.94	-1977.47	4	3910.26	-1951.13
<i>Troglodytes troglodytes</i>	3	13097.88	-6545.94	6	12867.28	-6427.64
<i>Prunella modularis</i>	3	18666.81	-9330.41	6	17560.78	-8774.39
<i>Erithacus rubecula</i>	3	275438.34	-137716.17	8	272574.43	-136279.21
<i>Phoenicurus ochruros</i>	3	7154.34	-3574.17	5	6951.86	-3470.93
<i>Phoenicurus phonicurus</i>	3	20122.65	-10058.33	7	19997.72	-9991.86
<i>Turdus merula</i>	3	15850.00	-7922.00	7	15730.42	-7858.21
<i>Turdus philomelos</i>	3	26498.26	-13246.13	6	26162.26	-13075.13
<i>Sylvia atricapilla</i>	3	43868.79	-21931.39	5	43838.51	-21914.25
<i>Sylvia borin</i>	3	13412.79	-6703.39	4	13407.13	-6699.56
<i>Phylloscopus collybita</i>	3	60094.54	-30044.27	7	59441.54	-29713.77
<i>Phylloscopus trochilus</i>	3	25636.99	-12815.49	7	25549.11	-12767.56
<i>Regulus regulus</i>	3	110636.51	-55315.26	7	108007.40	-53996.70
<i>Regulus ignicapilla</i>	3	8344.69	-4169.35	4	8219.60	-4105.80
<i>Ficedula hypoleuca</i>	3	132158.43	-66076.22	7	131350.11	-65668.06
<i>Periparus ater</i>	3	102372.40	-51183.20	5	102224.80	-51107.40
<i>Cyanistes caeruleus</i>	3	18968.09	-9481.04	5	18943.52	-9466.76
<i>Parus major</i>	3	5161.92	-2577.96	5	5077.84	-2533.92
<i>Fringilla coelebs</i>	3	372245.12	-186119.56	8	364885.94	-182434.97
<i>Fringilla montifringilla</i>	3	90475.29	-45234.65	6	86674.38	-43331.19
<i>Spinus spinus</i>	3	300496.60	-150245.30	6	297318.47	-148653.24
<i>Loxia curvirostra</i>	3	38298.70	-19146.35	6	38091.49	-19039.74
<i>Coccothraustes coccothraustes</i>	3	105456.09	-52725.04	6	103887.40	-51937.70