

Ecological preferences of *Hyla molleri* in the colonisation of arboreal refuges in a human-shaped wetlandRita L Vale<sup>1</sup>, Inês Torres<sup>1</sup>, Sara Gomes<sup>1</sup>, Carlos Fonseca<sup>2</sup>, Eduardo Ferreira<sup>1</sup><sup>1</sup>Department of Biology, University of Aveiro, Portugal. Campus Universitário de Santiago, 3810-193 Aveiro, Portugal<sup>2</sup>Department of Biology & CESAM, University of Aveiro, Portugal. Campus Universitário de Santiago, 3810-193 Aveiro, Portugal

## Supplementary Material

**Table S1.** List of environmental variables by category, with reference to units, description and average, median, minimum and maximum values of each variable.

Category	Variable	Units	Description	Average	Median	Minimum	Maximum
Season	season	name	Season of the year when sampling was performed.	classes: <i>winter, spring, summer, autumn</i>			
	fortnight	count	Number of fortnights that passed after pipes were installed.	13.1	13	1	26
	month	month	Month of the year when sampling was performed.	6.5	6	1	12
	days after install	count	Number of days that passed after pipes were installed.	245.2	246	64	440
Microhabitat	refuge height	centimetres	Height at each of the artificial refuges was placed.	174.0	192	80	260
	relative position	categorical	Relative position of the refuge relatively to the other refuge installed in the same tree.	classes: <i>upper, lower</i>			
	perimeter install branch	centimetres	perimeter of the tree trunk or branch where the artificial refuge was installed.	23.0	21	6	9
	surrounding habitat	categorical	Type of habitat surrounding the artificial refuge.	classes: <i>rice field, reed bed, maize field, fallow</i>			
	installation tree species	categorical	Species of the tree where the refuge was installed (acacia, alder, willow).	classes: <i>acacia, alder, willow</i>			
	clustering	categorical	Level of tree clustering around the tree where the refuge was installed.	classes: <i>tree cluster, isolated tree</i>			
	protection* (N+E+S+W)	dummy variables	Orientation (cardinal directions) of the sides of the refuge that are protected from wind.	protection scores: <i>0 (no), 1 (full), 0.5 (partial)</i>			

Category	Variable	Units	Description	Average	Median	Minimum	Maximum
Dominant plant species	broadleaf cattail	proportion	Proportion of dominance of the species in the surroundings of refuge.				
	blackberry	proportion	Proportion of dominance of the species in the surroundings of refuge.			dominance proportions:	
	rice	proportion	Proportion of dominance of the species in the surroundings of refuge.			<i>0 (absent);</i>	
	reedbed	proportion	Proportion of dominance of the species in the surroundings of refuge.			<i>0.33 (shared dominance with two other species);</i>	
	willow	proportion	Proportion of dominance of the species in the surroundings of refuge.			<i>0.5 (shared with another species);</i>	
	alder	proportion	Proportion of dominance of the species in the surroundings of refuge.			<i>0.5 (shared with another species);</i>	
	acacia	proportion	Proportion of dominance of the species in the surroundings of refuge.			<i>0.5 (shared with another species);</i>	
	ivy	proportion	Proportion of dominance of the species in the surroundings of refuge.			<i>1.0 (single dominant)</i>	
	rushes	proportion	Proportion of dominance of the species in the surroundings of refuge.				
Weather	TemperatureHighC	°C	Maximum temperature of the day	19.5	18	9	33
	TemperatureHigh <sup>-1</sup>	°C	Maximum temperature of the previous day	19.9	19	13	36
	TemperatureAvgC	°C	Mean temperature of the day	15.3	15	-1	27
	TemperatureAvgC <sup>-1</sup>	°C	Mean temperature of the previous day	15.4	15	-1	26
	TemperatureLowC	°C	Minimum temperature of the day	11.9	12	3	21
	TemperatureLowC <sup>-1</sup>	°C	Minimum temperature of the previous day	12.1	12	3	21
	DewpointHighC	°C	Dew point at the point of maximum temperature of the day.	13.4	14	3	20
	DewpointHighC <sup>-1</sup>	°C	Dew point at the point of maximum temperature of the previous day.	13.7	14	5	21
	DewpointAvgC	°C	Dew point at the point of mean temperature of the day.	10.6	11	-34	18
	DewpointAvgC <sup>-1</sup>	°C	Dew point at the point of mean temperature of the previous day.	10.8	11	-34	18
	DewpointLowC	°C	Dew point at the point of minimum temperature of the day.	7.9	9	-73	16
	DewpointLowC <sup>-1</sup>	°C	Dew point at the point of minimum temperature of the previous day.	7.2	9	-73	17
	HumidityHigh	%	Maximum humidity level during the day.	89.5	90	71	94
	HumidityHigh <sup>-1</sup>	%	Maximum humidity level during the day.	89.7	91	66	94
	HumidityAvg	%	Mean humidity level during the day.	76.5	78	39	93
	HumidityAvg <sup>-1</sup>	%	Mean humidity level during the previous day.	76.7	78	39	93
	HumidityLow	%	Minimum humidity level during the day.	60.8	62	21	91

Category	Variable	Units	Description	Average	Median	Minimum	Maximum
	HumidityLow <sup>-1</sup>	%	Minimum humidity level during the previous day.	60.1	60	22	92
	PrecipitationSumCM	mm	Sum of precipitation of the day.	3.53	0.0	0.0	39.6
	PrecipitationSumCM <sup>-1</sup>	mm	Sum of precipitation of the previous day.	4.43	0.0	0.0	55.1
Site Fidelity	count day before	count	Number of individuals in the artificial refuge on the previous sampling day.	0.34	0	0	9
	max count month before	count	Maximum number of individuals in the artificial refuge on the previous sampling period.	0.57	0	0	9