

## **A survey of the Geometridae (Insecta: Lepidoptera) of Israel**

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The following aims were stated in the grant proposal:

1. A concerted effort of Geometridae collection throughout Israel and its neighboring countries, with special attention to biodiversity hot spots.
2. Identification of the entire TAU collection of Geometridae.
3. Preparation of distribution maps and color plates of all taxa known in Israel that will be used as a field guide until the publication of the more comprehensive monographs.

The following tasks were either completed or are in progress:

1. Fifty excursions were devoted to collecting Bombycidae totaling 82 nights of light-trapping. The main methods used for collecting were 1) Light-trapping with generator and battery-powered traps. 2) Collecting larvae of Geometridae and rearing to adults.
2. Collected material was labeled, sorted and identified with the help of the literature and reference collections. Samples of all the species were taken by me to several of the most important museums in Europe to have these species' identification confirmed by comparing them to material in those collections, particularly types. Additionally, all specimens will be sequenced in a joint project with the Bavarian State Collection, Munich, Germany with Dr. Axel Hausman
3. Manuscripts about Bombycidae fauna of Israel are now under preparation.

## Appendix

### List of main Light-trap collecting localities

<b>site</b>	<b>Altitude (m)</b>	<b>habitat description</b>	<b>latitude</b>	<b>longitude</b>	<b>Precipitation average</b>
Har <u>H</u> ermon	2000	doline, alpine vegetation	33°18'17"	35°47'14"	>400
<u>H</u> ula Nature Reserve	65	shore of a pond	33°04'11"	35°36'13"	>400
Har Meron	1110	woodland	32°59'44"	35°24'38"	>400
<u>N</u> ahal Keziv	190	woodland	33°02'43"	35°13'24"	>400
Ma'agan	210	tamarisk flood plain	32°42'32"	35°35'01"	200-400
<u>N</u> ahal Oren	150	North-facing slope	32°42'52"	34°59'33"	>400
<u>N</u> ahal Oren	125	South-facing slope	32°42'55"	34°59'07"	>400
<u>N</u> ahal <u>H</u> agal	5	dry rocky wadi with Mediterranean vegetation and reed	32°38'25"	35°32'24"	200-400
Gilboa'		open pine forest	32°31'57"	35°21'52"	200-400
Shoham	140	batha	32°00'00"	34°57'50"	>400
'Enot <u>Z</u> uqim Nature Reserve	-400	tamarisk forest	31°42'42"	35°27'12"	<200
<u>N</u> ahal Qidron Spill	-370	tamarisk flood plain	31°40'21"	35°26'06"	<200
'En Boqeq	-400	river bank close to spring			<200
HaBesor Nature Reserve	100	wet meadow	31°14'07"	34°30'24"	200-400

Ma'agar Yero <u>h</u> am	450	shore of reservoir	30°59'12"	34°53'39"	<200
Sede Boqer Range	500	southfacing slope	30°51'15"	34°46'08"	<200
Sede Boqer Range	500	wadi	30°51'15"	34°46'08"	<200
'En Avedat	700	spring	30°49'58"	34°46'14"	<200
Haze <u>y</u> a Nature Reserve	-170	sandy desert	30°46'24"	35°17'28"	<200
Haze <u>y</u> a Nature Reserve	-170	wadi	30°46'24"	35°17'28"	<200