

Mentha spicata var. spicata (L. 1753) and Raphanus sativus var. sativus (L. 1753): meal for Medauroidea extradentata (Brunner von Wattenwyl 1907) (Phasmatodea: Phasmatidae)

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Mentha spicata var. spicata (L. 1753) and Raphanus sativus var. sativus (L. 1753): meal for Medauroidea extradentata (Brunner von Wattenwyl 1907) (Phasmatodea: Phasmatidae)

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Introduction

Medauroidea extradentata, a stick insect originally from the district of Annam, Vietnam. Although its natural food plant in Vietnam is unknown, this species is able to feed on a large variety of plants in captivity such as brambles and raspberries (Rubus spp. (L. 1753)), hazel (Corylus maxima (Mill. 1768)) for the most common. When current food shortages (bramble, raspberry and hazel), it has been demonstrated that some specimens of the species *M. extradentata* are able to survive on other food resources (1). *Mentha spicata* var. spicata does not seem to pose adaptation problem, but survival on Raphanus sativus var. sativus is obviously accessible to a limited number of specimens (3 out of 11 in the cited experiment). This was the first time that it was observed that *M. extradentata* is able to feed on spearmint and radish. New experiments, over a longer period in order to study if specimens living on one of the cited plants have the capacity to perform a complete cycle, if their eggs are viable, are described here.

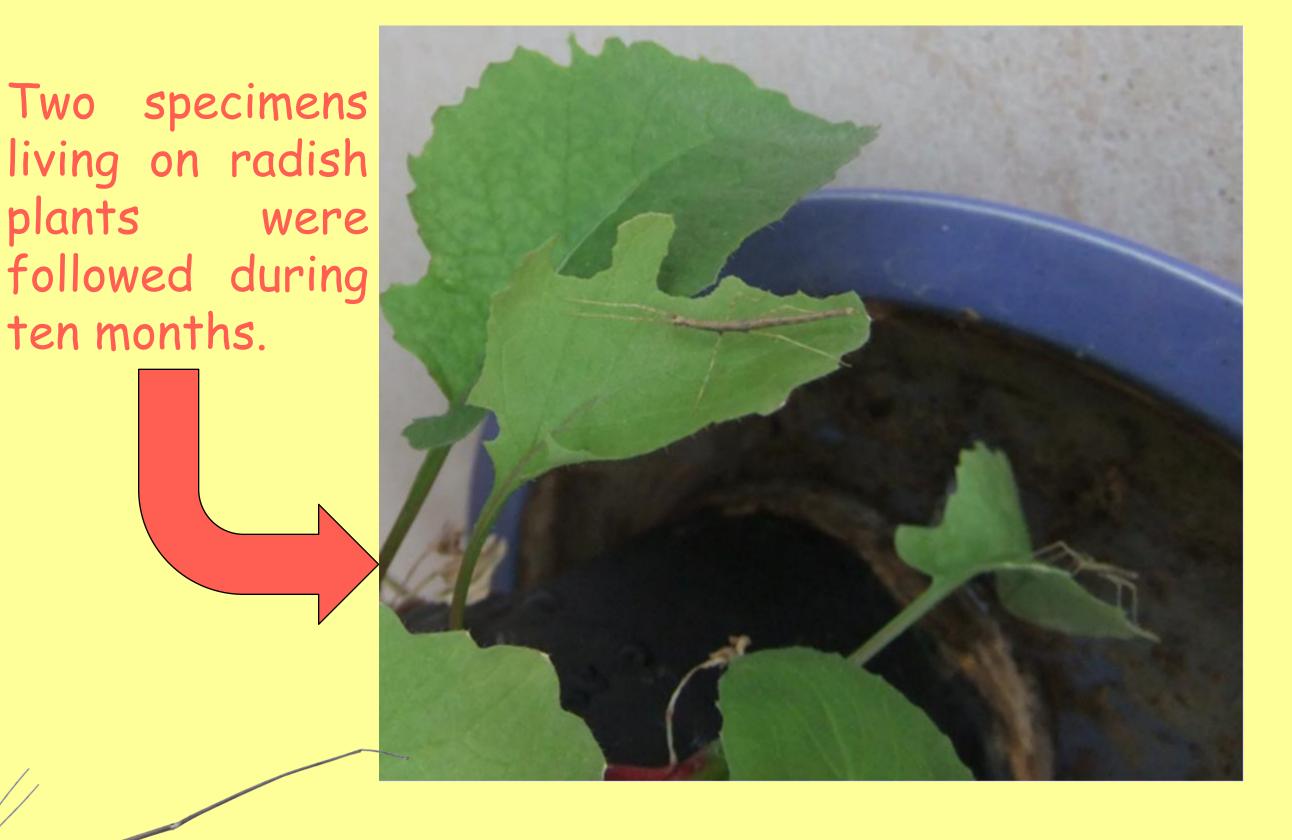
Experimental and Results

Mentha spicata var. spicata



specimens living on spearmint followed during one year.

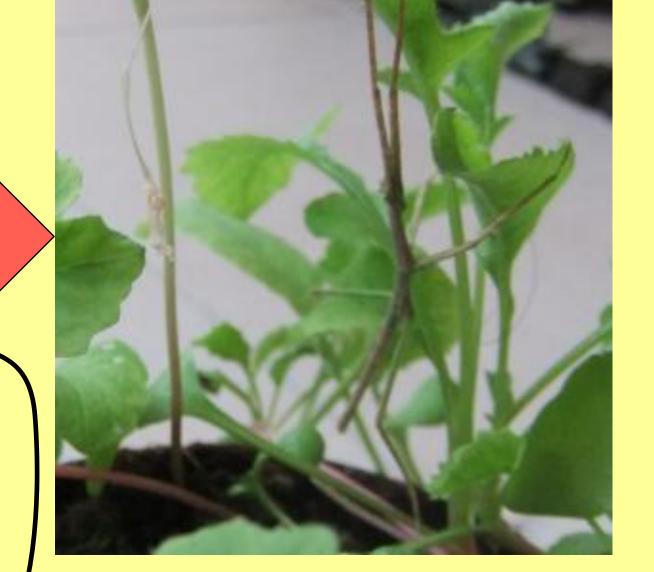
Raphanus sativus var. sativus





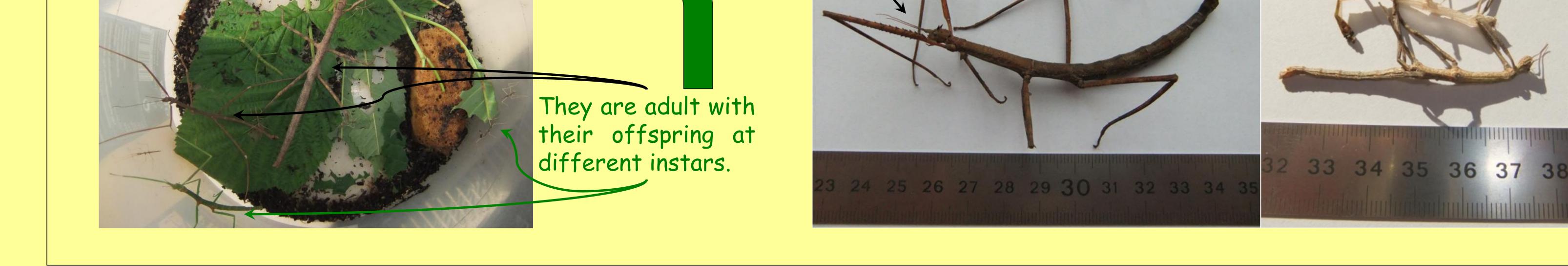
The two had a normal development.

They did not develop normally, as they did not exceed in size the fourth instar.



The one who lived on the radish is 8 months old, and it is much smaller than another who was fed classically and who was only 7 months old.

And the second specimen has molted for nothing, as it has not grown and this moult has been fatal to it.



Conclusion

The selection of food for this species has been slightly expanded. Indeed, only *M. spicata* can be used as food for *M. extradentata*, as *R.* sativus allows only the survival of the specimens but not of the M. extradentata species.

(1) Olive Gabriel, Zimmer Jean-Yves, Olive Gilles (2016). Mentha spicata var. spicata (L. 1753) and Raphanus sativus (L. 1753) and Raphanus and Raphanus and Raphanus (L. 1753) and Raphanus and Phasmatidae). Communications in Agricultural and Applied Biological Sciences 81 (1), p. 190-193.