

Christine Schönberg - Figure legend

Morphological aspects of *Aka infesta* specimen ZMA POR 19927. A – Overview of specimen of *Madrepora oculata* in which *A. infesta* was found. White arrows indicate the extent of spread of *A. infesta*. Shorter black arrow pointing towards the fracture surface of Figure 3 B, D and E, longer black arrow towards the surface of C. Ruler units are cm. B – Overview over fracture surface with *A. infesta* tissue (upper half). C – Empty cavity that contained *A. infesta* tissue and matches upper half of B. D– Close-up of *A. infesta* tissue. In the lower part of the photograph the tissue is shrinking back from the substrate, in the upper right it still clings to the substrate wall. E . Spicule arrangement in a substrate canal, very close to the surface (upper left corner); detail of C, upper part. F – Mere tissue-spicule ring marking the site of a papillar structure, probably exhalant; on smallest fragment of *Madrepora*. G – Minute fistule on short stem, widening in the top; on smallest fragment of *Madrepora*. H-J – Pluck-squeeze preparations of sponge tissue. H – Choanosomal tissue with loose and unordered arrangement of oxeas. I – Choanosomal tissue with loose arrangement of oxeas in parallel to each other. J – Fragment of papillar ring, clearly showing the layered arrangement of densely-packed oxeas at right angle to each other. K – SEM photograph of papillar fragment in which the lower layer of spicules would correspond with the outer layer of the minute fistule or papilla. L-M - Distribution and size of substrate pores made by *A. infesta*. Scale bars A-D, G and L-M: 2 mm, E-F: 1 mm, H-J: 200 μm , K: 50 μm .

