

ANGRAECUM SCALE, *CONCHASPIS ANGRAECI* COCKERELL  
(HOMOPTERA: COCCOIDEA: CONCHASPIDIDAE)<sup>1</sup>

Avas B. Hamon<sup>2</sup>

INTRODUCTION: *Conchaspis angraeci* Cockerell was described on *Angraecum eburneum* var. *virens* from Jamaica (Cockerell 1893). This is the only species of *Conchaspis* which occurs in North America. Apparently, no life history studies have been carried out on any species in the family Conchaspidae.

HABIT: Occurs on the stems and leaves. Externally the armor is very similar to an armored scale insect, but there is no exuviae (cast skins of previous instars) incorporated into the armor. The female armor (fig. 1) usually is circular in outline and conical in shape. The cone has 6 to 8 ridges (fig. 2) radiating from the blunt apex but ending before reaching the margin. The armor is normally white, but sometimes the color is obscured by dirt or plant tissue that makes it appear gray or yellowish. First instars or crawlers do not have a wax cover. The wax cover is secreted by the 2nd instar and adult female.

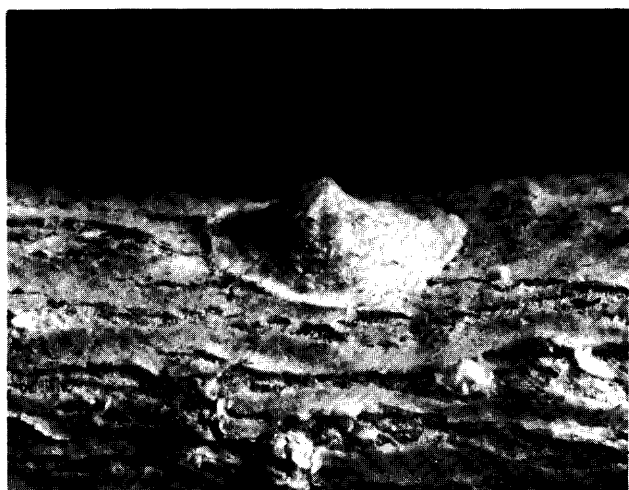


Fig. 1. *Conchaspis angraeci*,  
adult female (x15)



Fig. 2. *Conchaspis angraeci*,  
nymph with distinct ridges on  
armor (x20)

DISTRIBUTION: This scale insect is found throughout the tropics and subtropics. In Florida it has been reported from the following counties: Alachua, Baker, Brevard, Broward, Charlotte, Citrus, Dade, De Soto, Hillsborough, Jefferson, Lake, Lee, Leon, Levy, Manatee, Martin, Monroe, Orange, Palm Beach, Pinellas, Polk, and Volusia.

HOSTS: *Acalypha* sp., *Acalypha wilkesiana* Mill. Arg., *Angraecum superbum* Thouars. var. *virens* Hort. Veitch, *Bougainvillea* sp., *Brassaia* sp., *Brassaia actinophylla* Endl., *Carica papaya* L., *Cattleya* sp., *Chrysobalanus icaco* L., *Coccoloba diversifolia* Jacq., *Coccoloba uvifera* (L.)L., *Codiaeum variegatum* (L.) Blume, *Epidendrum secundum* Jacq.,

<sup>1</sup>Contribution No. 441, Bureau of Entomology

<sup>2</sup>Taxonomic Entomologist, Div. Plant Ind., P.O. Box 1269, Gainesville, FL 32602

*Euphorbia lactea* Haw. cv. 'Cristata', *Flacourtia indica* (Burm. f.) Merrill, *Ficus sagittata* Vahl, *Gongora quinquenervis* Ruiz & Pavon, *Hibiscus* sp., *Hibiscus rosa-sinensis* L., *Hibiscus rosa-sinensis* L. 'Mary Ann', *Hoya carnosia* R. Br., *Ilex* sp., *Ixora* sp., *Kigelia pinnata* DC., *Macroplectrum sesquipedale* (Thouars) Pfitz., *Malvaviscus* sp., *Myrica cerifera* L., *Nectandra coriacea* (Sw.) Griseb., *Oncidium ampliatum* Lindl., *Oncidium stipitatum* Lindl., *Persea* sp., *Pittosporum* sp., *Pittosporum tobira* Ait., *Pittosporum tobira* Ait. var. *variegatum* Hort., *Plumeria* sp., *Rhododendron* sp., *Stephanotis* sp.

ECONOMIC IMPORTANCE: Damage, sometimes severe, has been reported on hibiscus, pittosporum, orchids, and seagrape. Damage appears as a general plant weakening because of the removal of large quantities of plant sap.

CONTROL: No chemicals are registered for use on this pest; however, one of the chemicals recommended by the Institute of Food and Agricultural Sciences, University of Florida, for the control of scale insects would be adequate. The best time to spray is when the crawlers are present, because they do not have a wax armor over them. If chemicals are applied to adult females, 3 or 4 applications will be needed for control.

REFERENCES:

- Cockerell, T.D.A. 1893. Coccidae or scale insects. II. Bull. Bot. Dept. Jamaica 40:9.  
Ferris, G. F. 1955. Atlas of the scale insects of North America 7:66-68; 1 fig. California, Stanford Univ. Press.  
Mamet, R. 1954. A monograph of the Conchaspidae Green (Hemiptera:Coccoidea). Trans. Roy. Ent. Soc. London 105(2):198-239; 24 fig.