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CONTRIBUTION TO THE KNOWLEDGE OF CONTINENTAL OSTRACOD FROM CHILE

Introduction

Our knowledge of continental ostracods in South America is still in its infancy with a total of only 260 species (Martens & Behen, 1994). Particularly in Chile, it is still scarce and scattered, with large voids in the taxonomy and distribution. In Chile, the first records were reported by Daday (1902), Brehm (1934) and Löffler (1961a, b). Later, Schwalb & Burns (1999) cited species of Limnocytheridae and Karanovic (2012) provided new records of Candonidae from Chile.

The main objective of this work is to provide a checklist of ostracods in Chile with updated distributional records.

Methodology

The checklist is based on literature review and recent sampling surveys from lakes of the Yali Complex (33°S, 71°W) and Cisnes Lake (47°S, 72°W) (Fig. 1). Samples in the Yali Complex were obtained with a 250 µm net and fixed in 70% alcohol. Samples in the Cisnes Lake were collected from a sediment core. Water temperature, pH and conductivity were measured during the surveys (Tab. 1).

Later, the samples were processed and individuals were identified up to species.

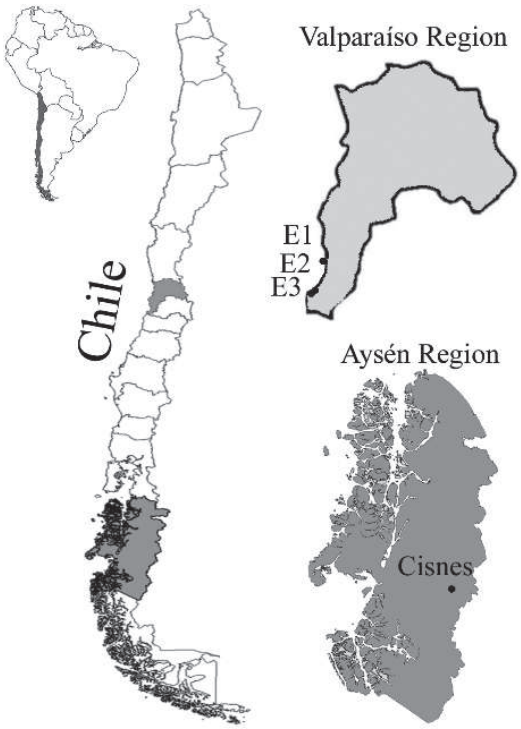

Fig. 1 — Location of **a**, Yali Complex, **b**, Lake Cisnes.

Table 1
Physico/Chemical parameters

Site	T (ºC)	pH	Conductivity (µS/cm)
L. Salinas E-1	13	9,4	667
L. Peral E-1	12	7,7	1288
L.Matanza E-2	12	7,5	1286
L.Colejuda E-3	11,6	8,4	52200
L. Cisnes	15,7	9,5	390

RESULTS

A total of 47 species, 24 genus and 7 families were recorded. Six of these species are new to Chile: a) *Eucypris virens*, b) *Cypris pubera*, c) *Heterocypris incongruens,* d) *Kapcypridopsis megapodus*, e) *Limnocythere patagonica*, f) *Penthesilenula incae* (Tab. 2, Fig. 2).

Table 2
Checklist of non-marine ostracods from Chile.

Phylum Crustacea Class Ostracoda Order Podocopida Family	**Genus**	**Species**	
Cyprididae	*Amphicypris*	*A. nobilis*	
	Chlamydotheca	*C. incisa*	
		C. symmetrica	
	Cypris	*C. pubera*	*C. pubera E1-E2**
		C. chilensis	*First record in S. America*
		C. bimaculata	
		C. ochracea	
		C. violacea	
		C. vidua	
	Cypridopsis	*C. pseudoparva*	
	Eucypris	*E. virens*	*E. virens E3 **
		E. noodti	
		E. trapezoides	
	Hemicypris	*H.salaria*	
	Heterocypris	*H.incongruens*	*H. incongruens E2-E3. First record in continental*
		H.panningi	*Chile*
		H.salina	
	Herpetocypris	*H.pectinata*	
		H.reptans	
	Ilyodromus	*I.verreauxi*	
	Kapcypridopsis	*K.megapodus*	*K. megapodus*: L. Cisnes*
	Isocypris	*I.beauchampi*	
	Neocypridopsis	*N.granulosa*	
		N. paradisea	
	Plesiocypridopsis	*P.silvestrii*	
	Sarscypridopsis	*S.aculeata*	
	Strandesia	*S.donnettii*	
		S.marina	
	Tanycypris	*T.marina*	
Notodromadidae	*Newnhamia*	*N.patagonica*	
Candonidae	*Candona*	*C.araucana*	
		C. albida	
		C.quasiincavum	
	Latinopsis	*L.patagonica*	
Ilyocyprididae	*Ilyocypris*	*I.bradyi*	
Darwinulidae	*Penthesilenula*	*P.araucana*	*P. incae* L. Cisnes*. Extended the distribution
		P. incae	
	Darwinula	*D. dicastrii*	
		D. sp	
Limnocytheridae	*Limnocythere*	*L. arthuri*	*L. patagonica* L. Cisnes*
		L. atacamae	
		L. inopinata	
		L. bradburyi	
		L.patagonica	
		L. sp	
	Cytheridella	*C. ilosvayi*	
Cytherideidae	*Cyprideis*	*C. beaconensis*	

* First record in Chile

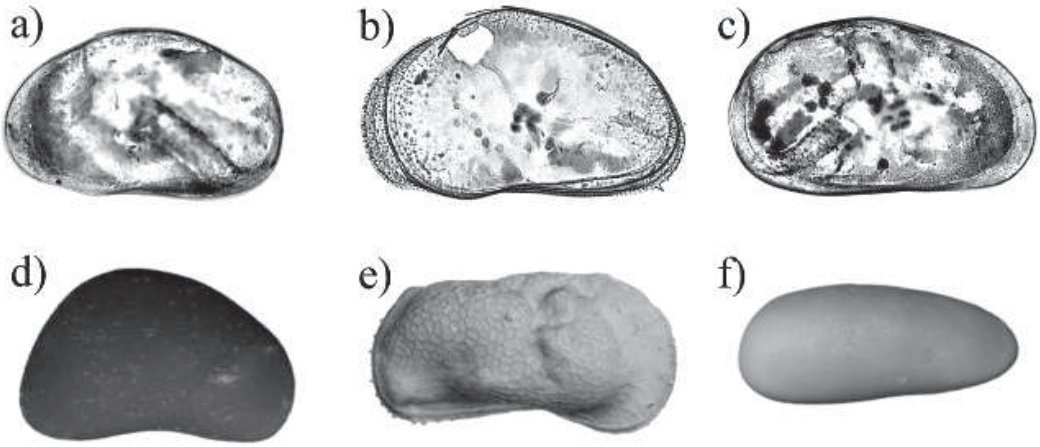

Fig. 2 — **a**, *Eucypris virens* (Jurine, 1820); **b**, *Cypris pubera* Müller, 1776; **c,** *Heterocypris incongruens* (Ramdohr, 1808), **d**, *Heterocypris salina* (Brady 1868); **e**, *Kapcypridopsis megapodus* Cusminsky and Whatley, 2005; **f**, *Limnocythere patagonica* Cusminsky and Whatley, 1996; **g**, *Penthesilenula incae* (Delachaux, 1928).

CONCLUSIONS

This work shows an updated checklist and new records of ostracods in Chile. Taxonomic and biogeographic knowledge of ostracods is a valuable tool for environmental studies and for the reconstruction of palaeoenvironments.

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