Freshwater Animal Diversity Assessment (FADA):

Partim OSTRACODA

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Non-marine Ostracoda: sources

STEP 1: compile subjective species list

- Cologne Database (E. Kempf)
  ⇒ Select Recent species and genera
  ⇒ convert objective to subjective list
    ⇒ Clean out different generic assignments
    ⇒ Establish synonymies
Non-marine Ostracoda: sources

STEP 2: compile distribution lists

- Regional checklists
  - Eg Africa, South America
- Primary literature when recent checklists are absent
  - Eg North America, Australia,…
Global diversity of ostracods (Ostracoda, Crustacea) in freshwater

Koen Martens · Isa Schön · Claude Meisch · David J. Horne

- C 2000 species
- C 200 genera
- Two families out of 13 (Cyprididae, Candonidae) = 75% of all species
- C 90% of all species and 60% of all genera in 1 zoogeographical region only
- 25% of all species in ancient lakes
- 9-12 separate invasions of FW since 400 Myr
Species/ endemics

(c 200 spp)

5/1

455/424

NT

PA

275/232

455/424

199/163

3/3

176/163

ANT

NA

PAc

OL
genera/ endemics
Global diversity of ostracods (Ostracoda, Crustacea) in freshwater

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- Only until 2008
- Not included
  - Karanovic (in press): 100+ new species and several genera from groundwater in Pilbara, Australia
  - Not included: “parasitic” Enthocytheridae (c 200 spp, especially in Nearctic).
Crustacea-Ostracoda checkList

(generated Wed Jul 24 12:04:40 +0200 2013 from FADA website)


- Included: Karanovic 2007 (84 species and 12 genera)
- Not included: Enthocytheridae (c 200 spp)
Future activities on FADA Ostracoda:

• Update checklist until 2015 (included)
• Taxonomic harmonisation
  • Between Palaeontology and Neontology
  • Between North America and Eurasia
    • Biofresh project: MOTR
    • Thorpe & Covich “Palaearctic”
• Harmonisation between FADA and WORMS