



Elurikkusest üldiselt ja eriti linnaruumis

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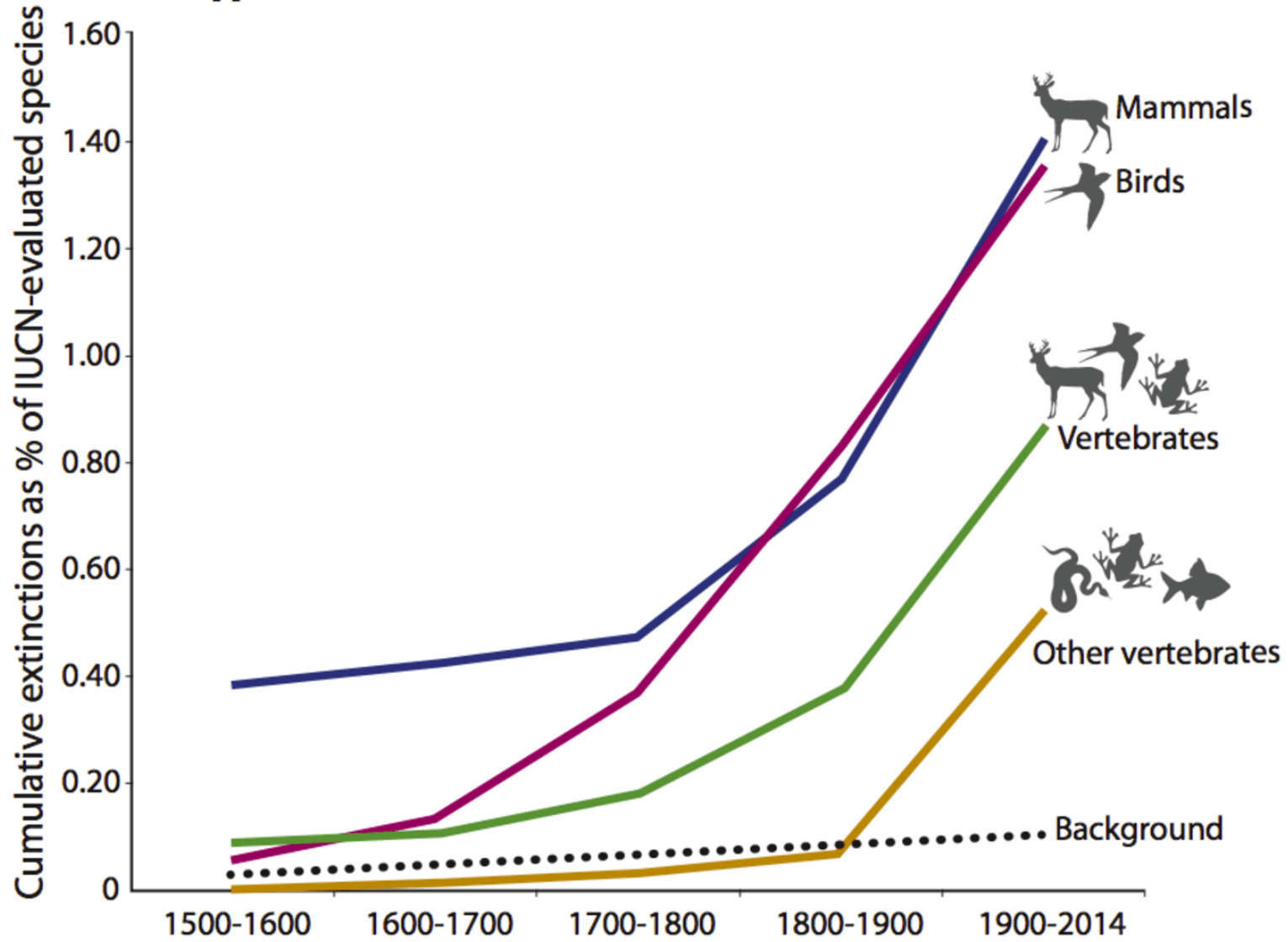
Tartu Ülikool

Bioloogiline mitmekesisus =

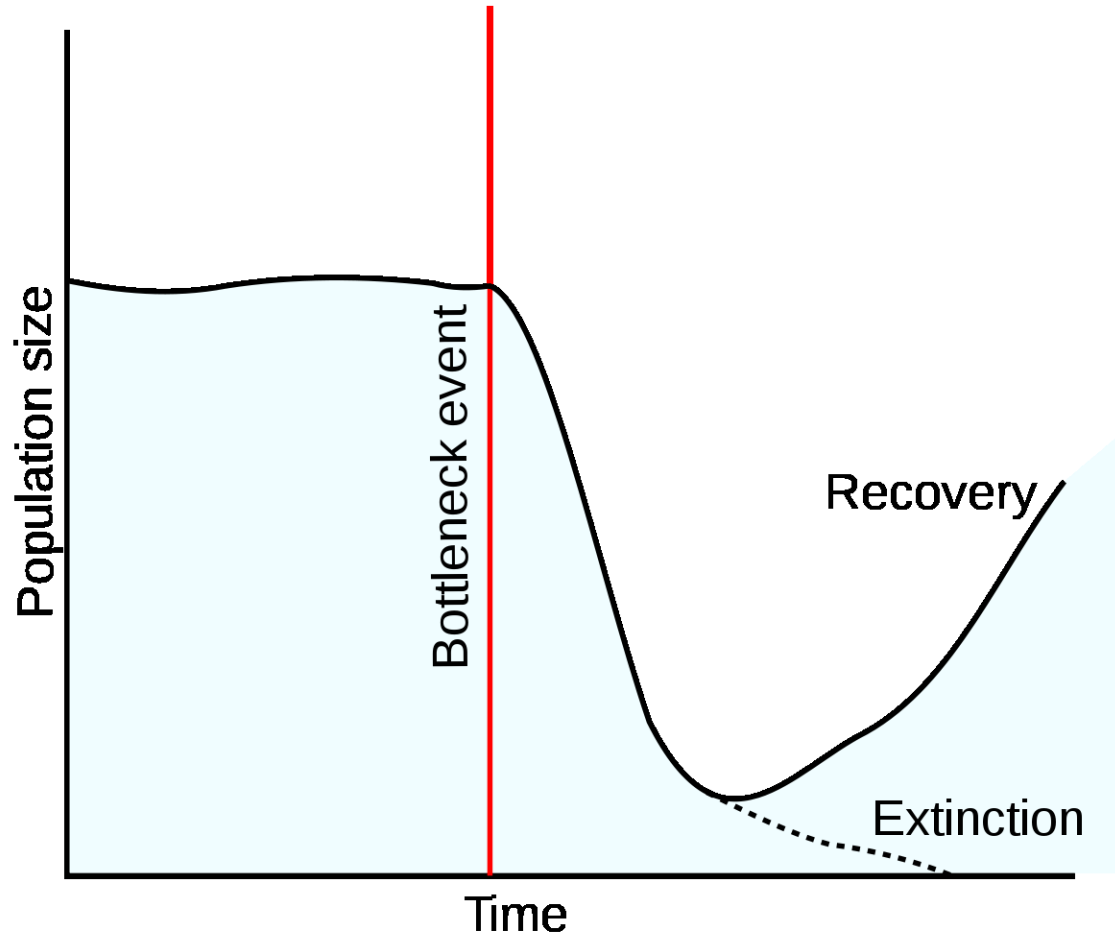
= biodiversiteet =

= elurikkus

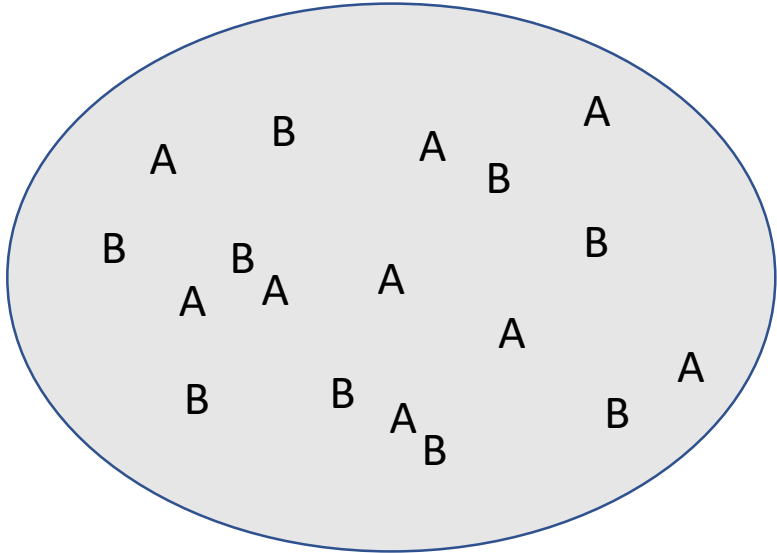
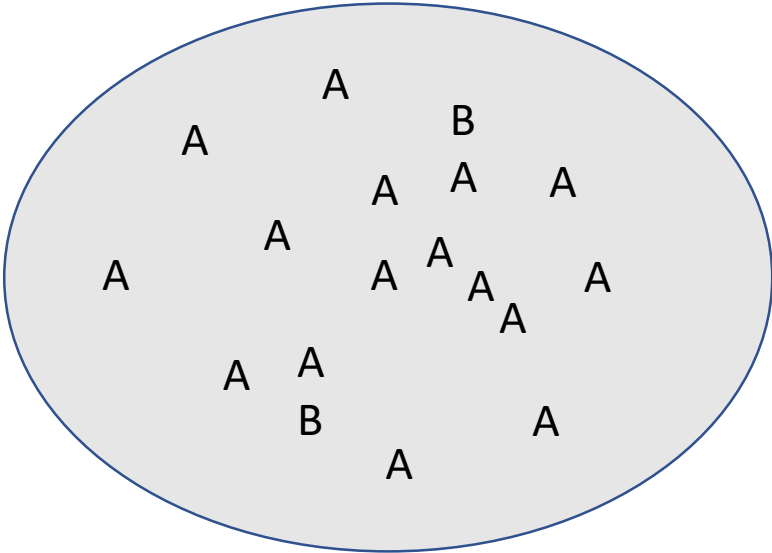
Kumulatiivsed väljasuremiskõverad loomadel



Pudelikaela efekt



Elurikkuse komponendid: liigirikkus (*species richness*) ja ühtlus (*evenness, equitability*)



Elurikkuse tasemed (*diversity levels*):

α – diversiteet, (eeldatavalt homogeenses keskkonnas leviva) koosluse diversiteet (liigirikkus, ühtlus);

β – diversiteet, liigivahelduvus (*species turnover*) – mill määral tingib keskkonnagradiend liigilise koosseisu muutusi;

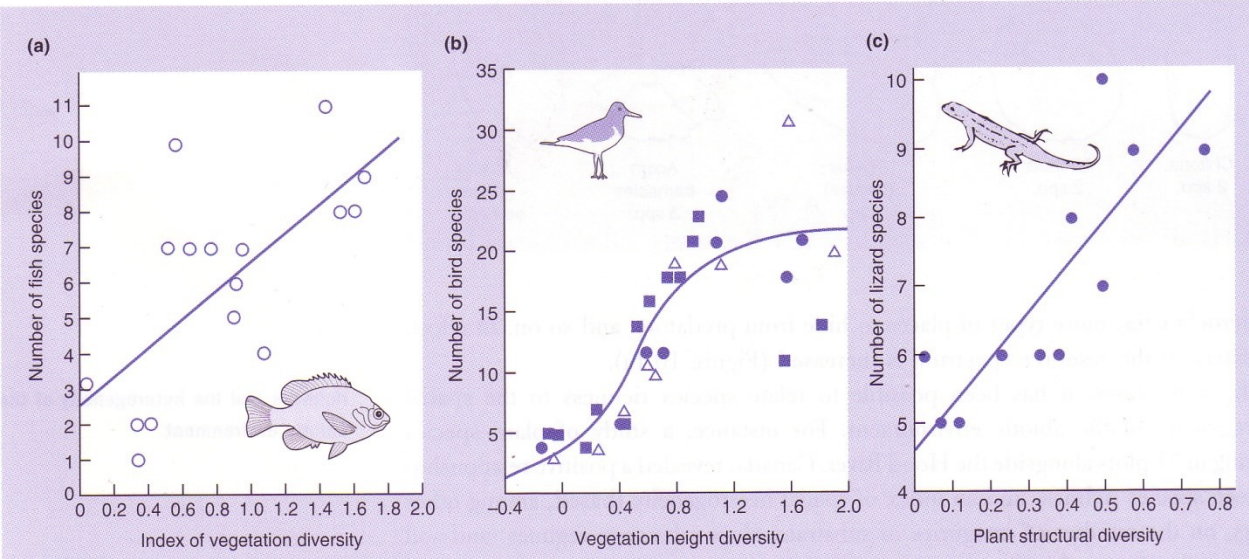
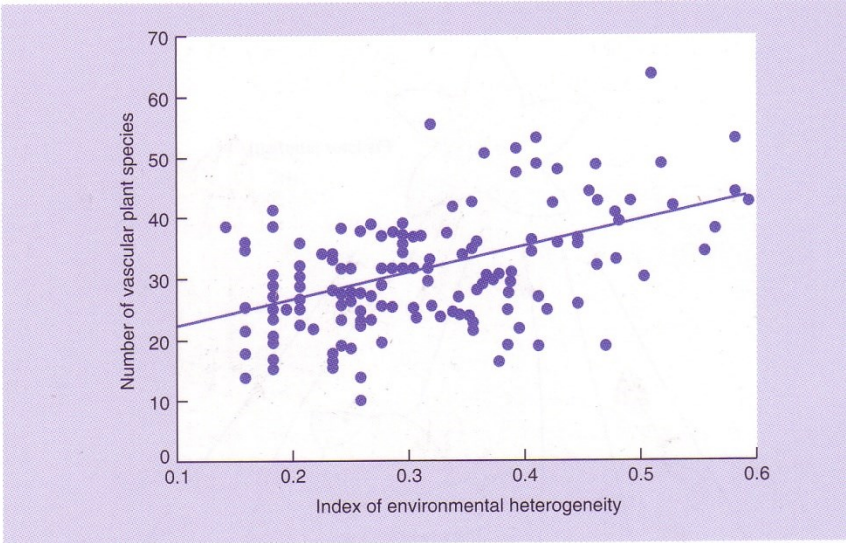
γ – diversiteet, maastiku elurikkus (summaarne liikide arv kõikide koosluste peale kokku)

$$\beta = \gamma / \alpha$$

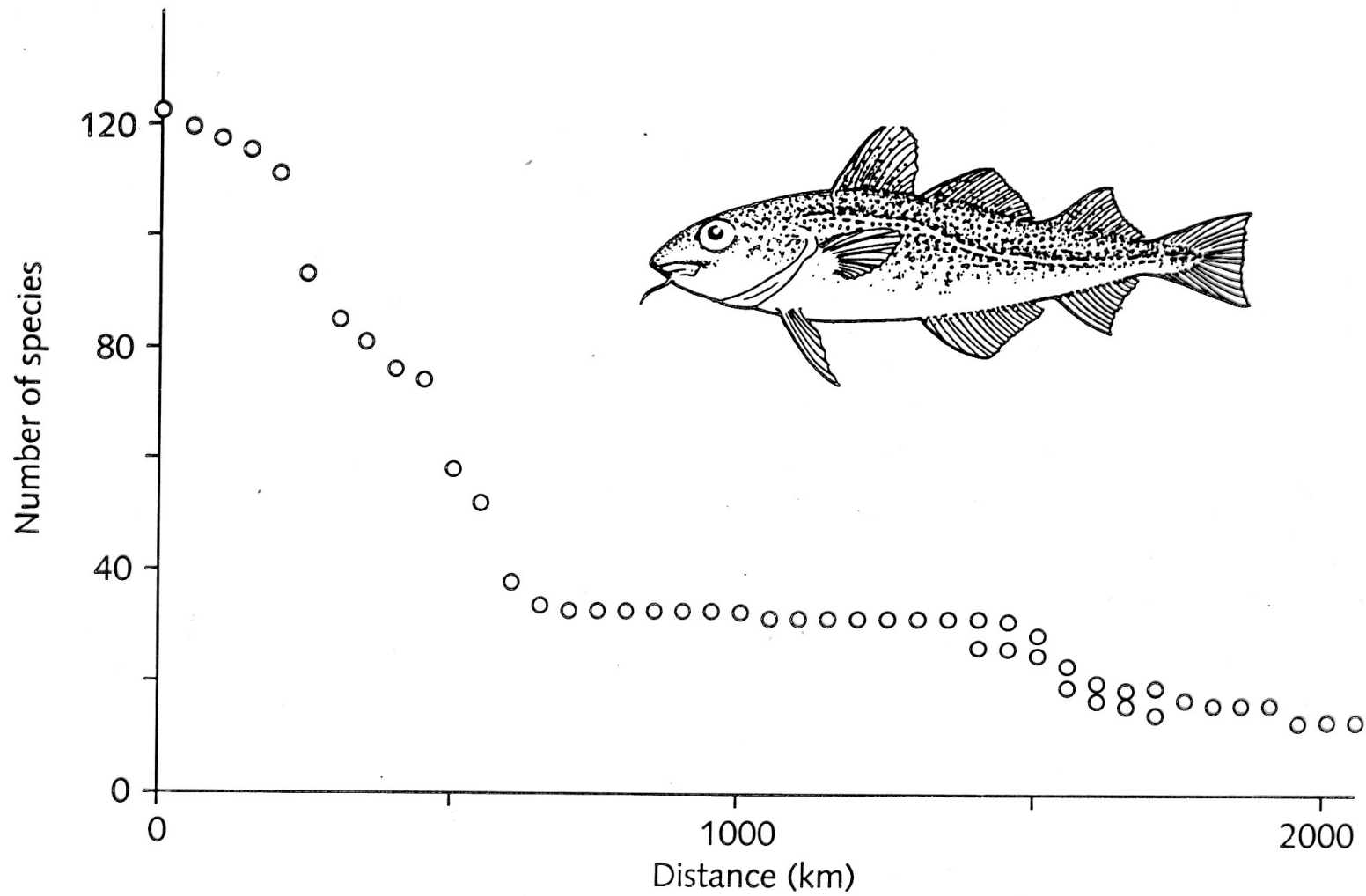
Keskkonna heterogeensus ja liigirikkus

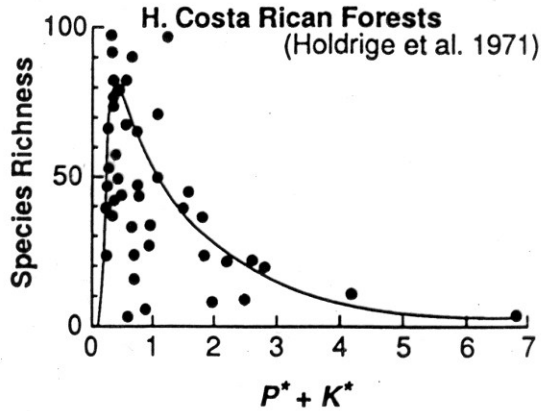
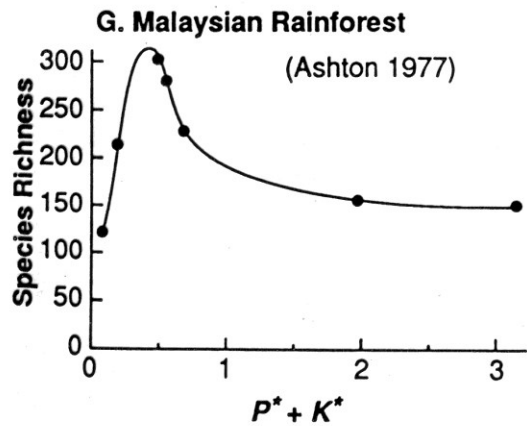
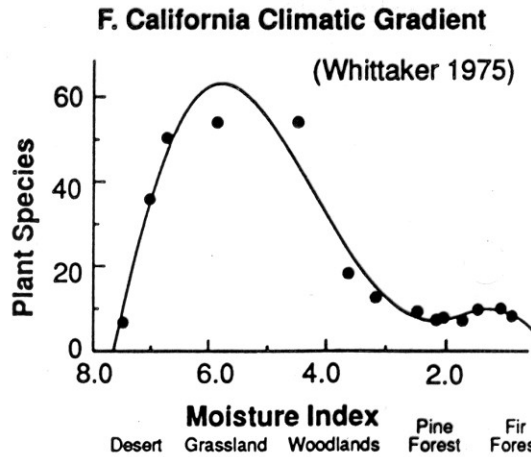
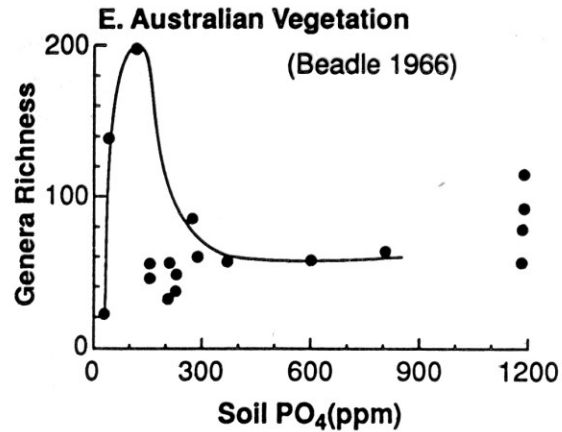
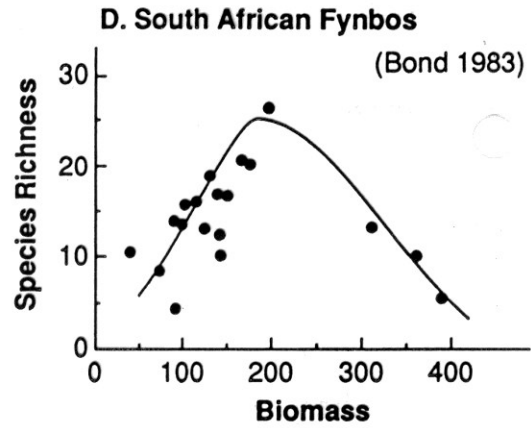
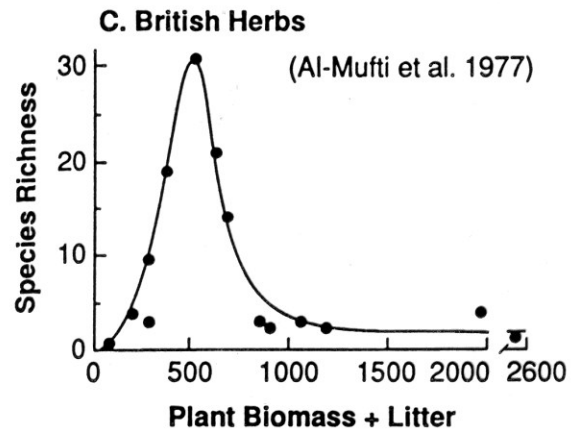
Figure 10.8

Relationship between number of plants per 300-m² plot beside the Hood River, Northwest Territories, Canada, and an index (ranging from 0 to 1) of spatial heterogeneity in abiotic factors associated with topography and soil. (After Gould and Walker, 1997.)



Lahe efekt läänemeres – kalaliikide arv väheneb monotoonselt Taani väinadest Botnia lahe põhjatipu suunas.





Küürselg-kõverad
(*hump-backed curves*)
erinevates
ökosüsteemides üle
ilma

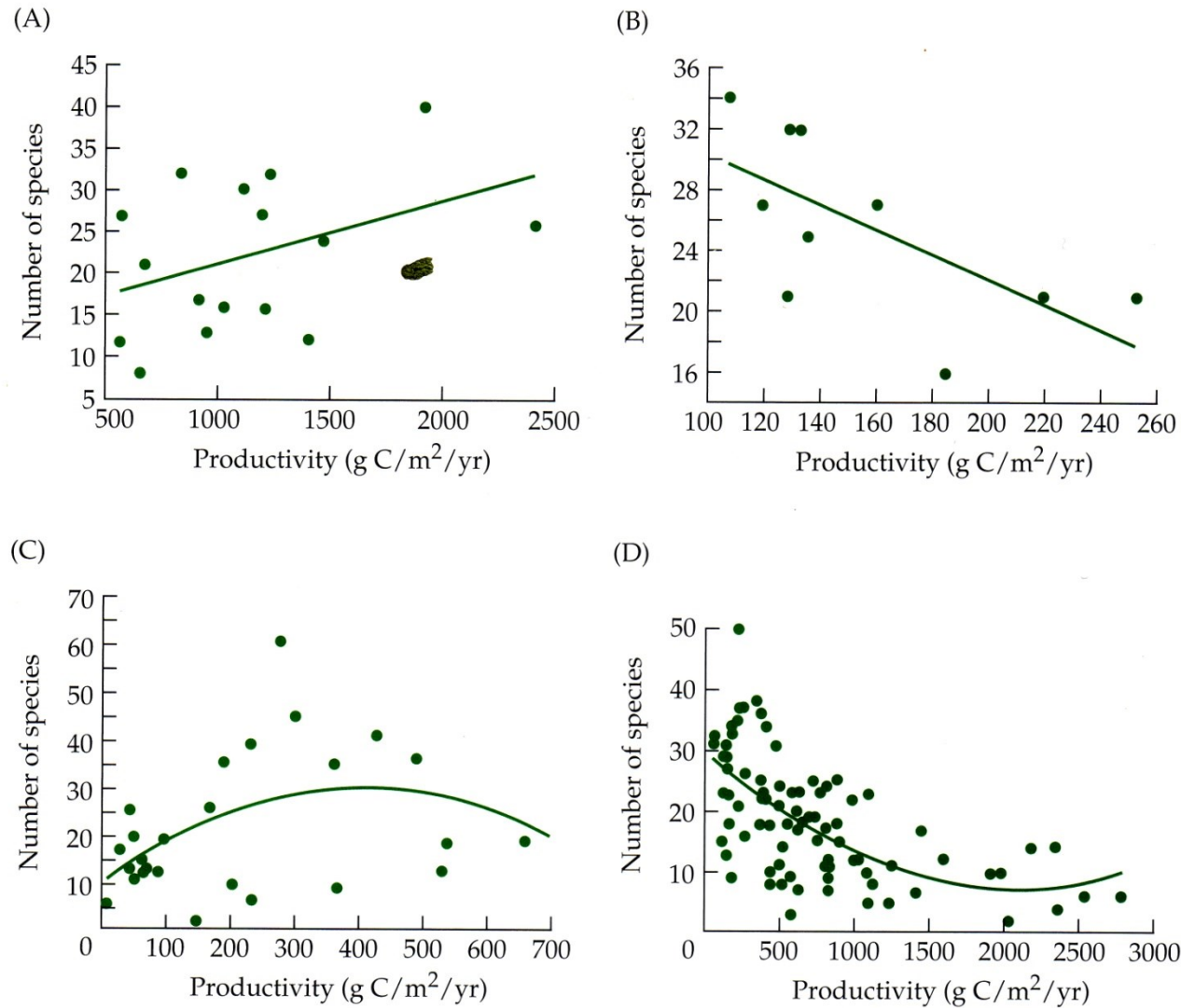
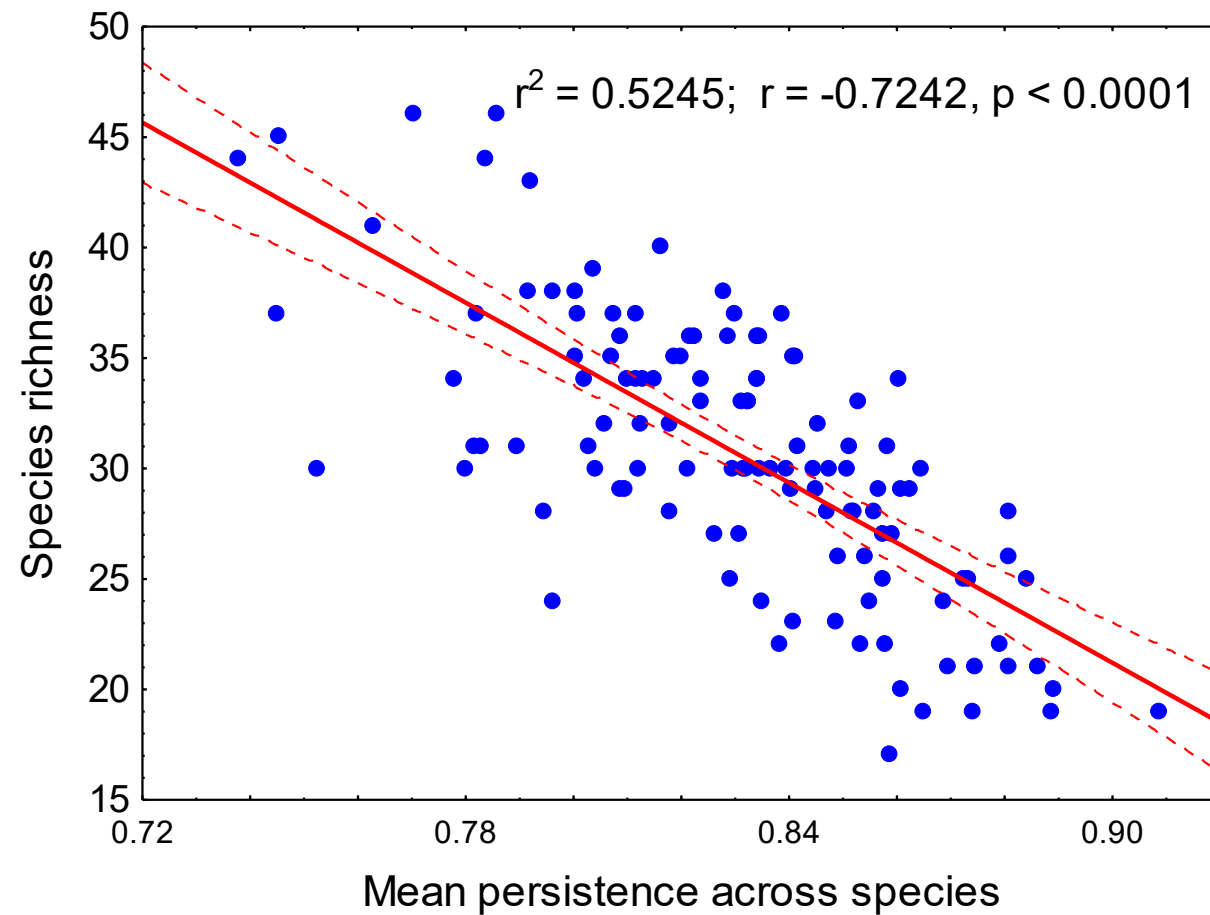


Figure 14.7

The relationship between productivity and species richness can have different shapes in different communities. All relationships are statistically significant. (A) Aboveground yearly productivity versus total number of tree, shrub, and herb species in a deciduous forest in the Great Smoky Mountains. (Data from Whittaker 1966.) (B) Aboveground yearly productivity versus total number of herb species in a grassland in western North Dakota. (Data from Redmann 1975.) (C) Standing crop versus total number of ground-layer species in grasslands and deciduous forests in Estonia. (Data from Zobel and Liira 1997.) (D) Standing crop versus total number of herb species in a fen in the United Kingdom. (Data from Wheeler and Shaw 1991.)

Prooviruudu liigirikkus vs liikide keskmine püsivus prooviruudus



Liigid jagunevad kolme kategooria vahel;
nomaadid, **töölised** and **farmerid**

