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Universiteit Leiden



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Title: The power of biotic ligand models : site-specific impact of metals on aquatic communities

Issue Date: 2013-12-04

Stellingen bij het proefschrift van Anja Verschoor

1. No-effect concentrations derived from laboratory tests may represent high bioavailability, but are not a-priori protective for effects of metals in natural waters. (this thesis)
2. Chemical monitoring in February, May and September would result in a good reflection of the annual range of risks due to Cu, Ni and Zn. A relevant question is whether predicted risk-periods coincide with the sensitive life-stages of species. (this thesis)
3. Vereenvoudigde functies en aanwijzingen voor gerichte monitoring bieden de mogelijkheid om biobeschikbaarheid beleidsmatig te implementeren en routinematig te gaan toepassen, met inzicht in de onzekerheden die daar bij horen (this thesis)
4. "The basic question is what constitutes a dose and where should it be measured?" (McCarty, *Toxicology* 181-182, 2002, p. 497)
5. "The importance of developing a national criterion based on bioavailable metal is not that it will markedly change the criterion, but that national and site-specific criteria should not differ if both are expressed in terms of the bioavailable form." (Allen and Hansen, *Water Environment Research*, 68, 1996, p. 53)
6. Considering the major and still growing impacts of human activities on earth and atmosphere, and at all, including global, scales, it seems more than appropriate to emphasize the central role of mankind in geology and ecology by proposing to use the term "anthropocene" for the current geological epoch. (Crutzen and Stoermer, *Global Change Newsletter*, 41, 2000, p. 17)
7. "Because ecosystem services are not fully "captured" in commercial markets or adequately quantified in terms comparable with economic services and manufactured capital, they are often given too little weight in political decisions." (Costanza et al, *Nature*, 387, 1997, p. 253)
8. Evaluating the impact of water pollution directly in the field is indispensable to assess its long term effects from an evolutionary point of view. (Knapen et al., *Aquatic Toxicology*, 67, 2004, p. 164)
9. De dingen simpel houden is vrij moeilijk. De dingen moeilijk maken is daarentegen vrij simpel. (www.omdenken.nl)
10. Persoonlijk vind ik wollig taalgebruik verhullender dan een bivakmuts. (Loesje)