

Modellering av föroreningspridning i den omättade zonen – fallstudie vid en nedlagd plantskola

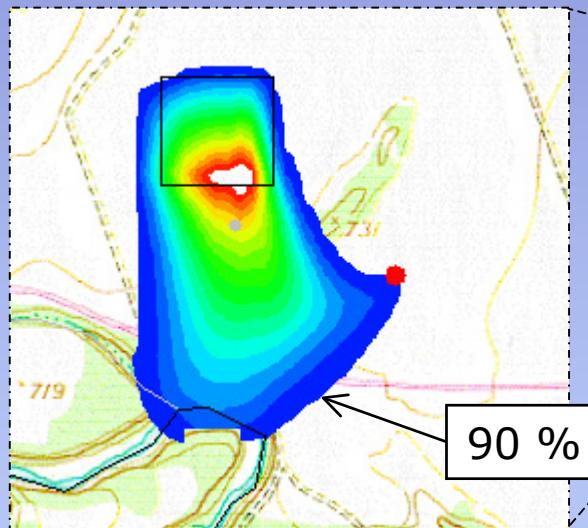


TYRÉNS

Fältarbete

Spridningsmodell
omättade zonen
(markvatten)

Spridningsmodell
mättade zonen
(grundvatten)

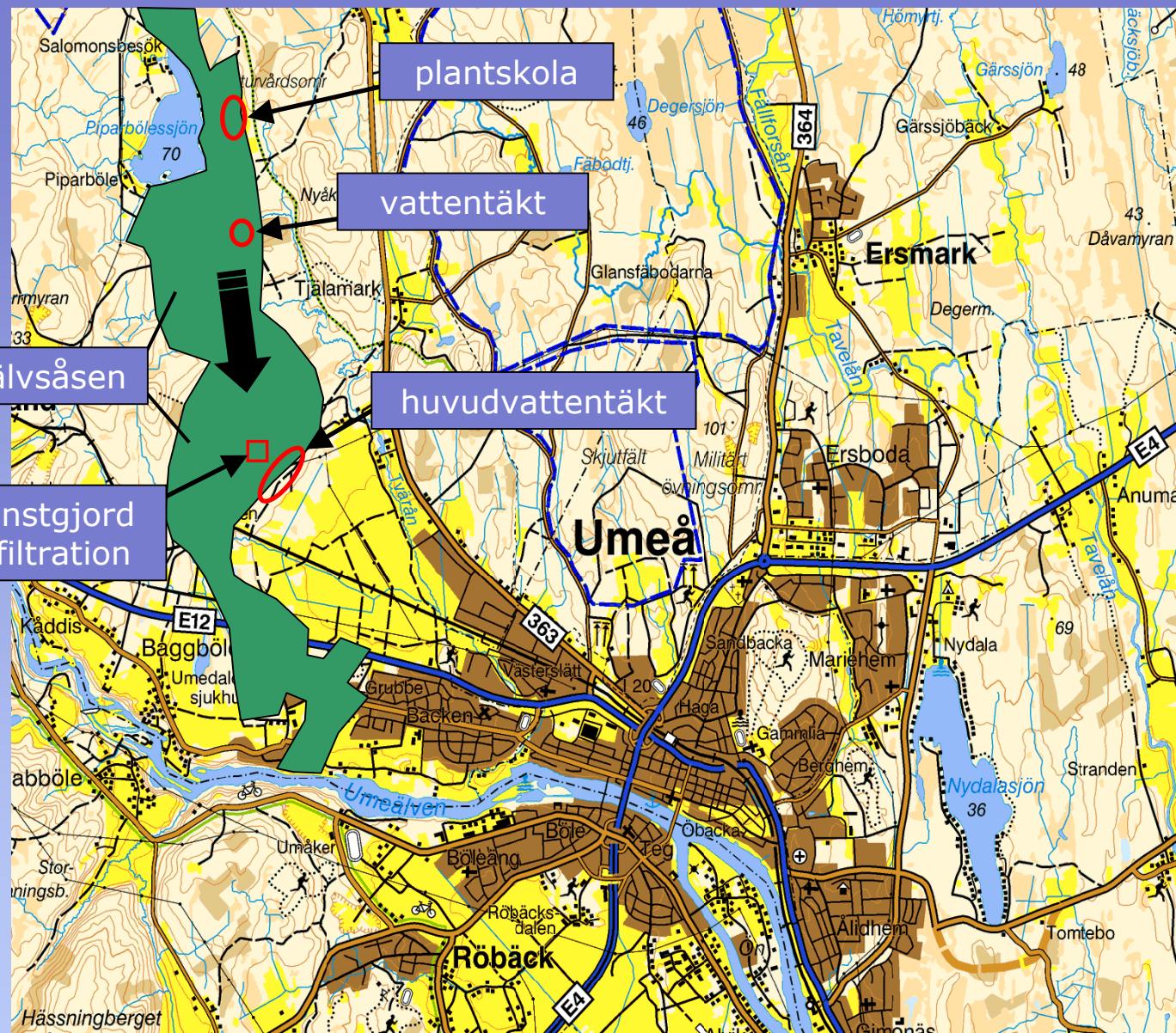


Verktyg för att
bedöma risken för
föroreningstransport

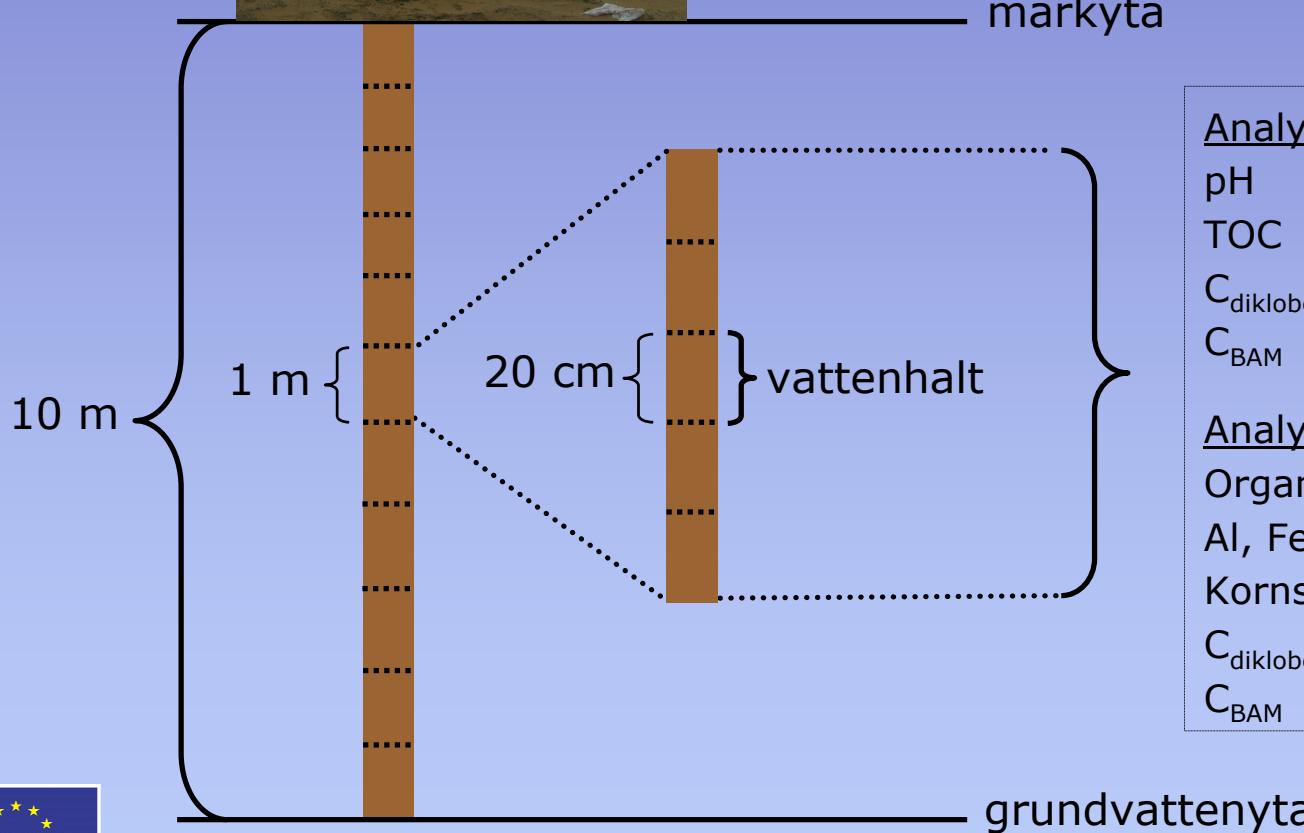
Risk-

bedömningsverktyg





Provtagning



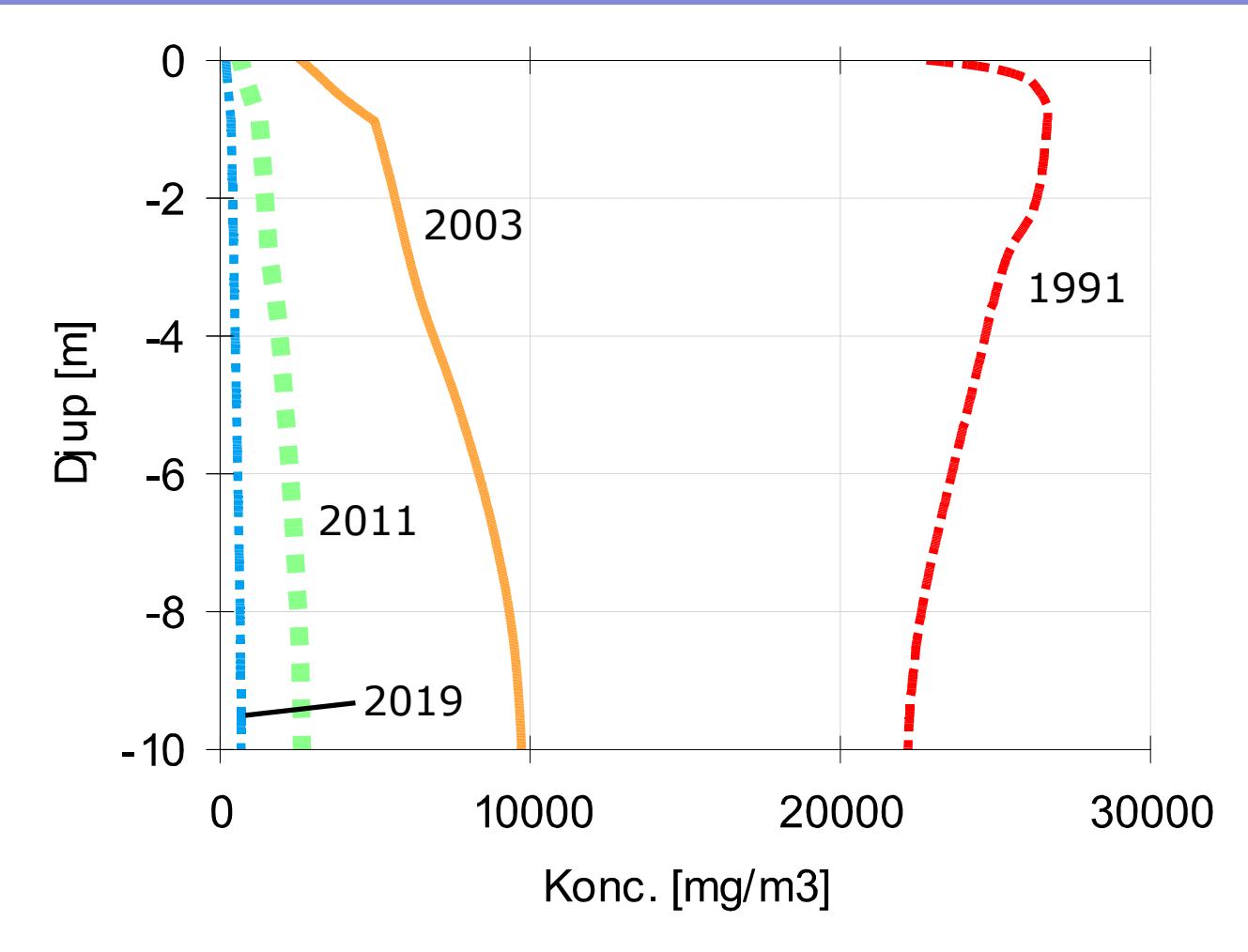
Analyser på markvatten

pH
TOC
 $C_{\text{diklofenil}}$
 C_{BAM}

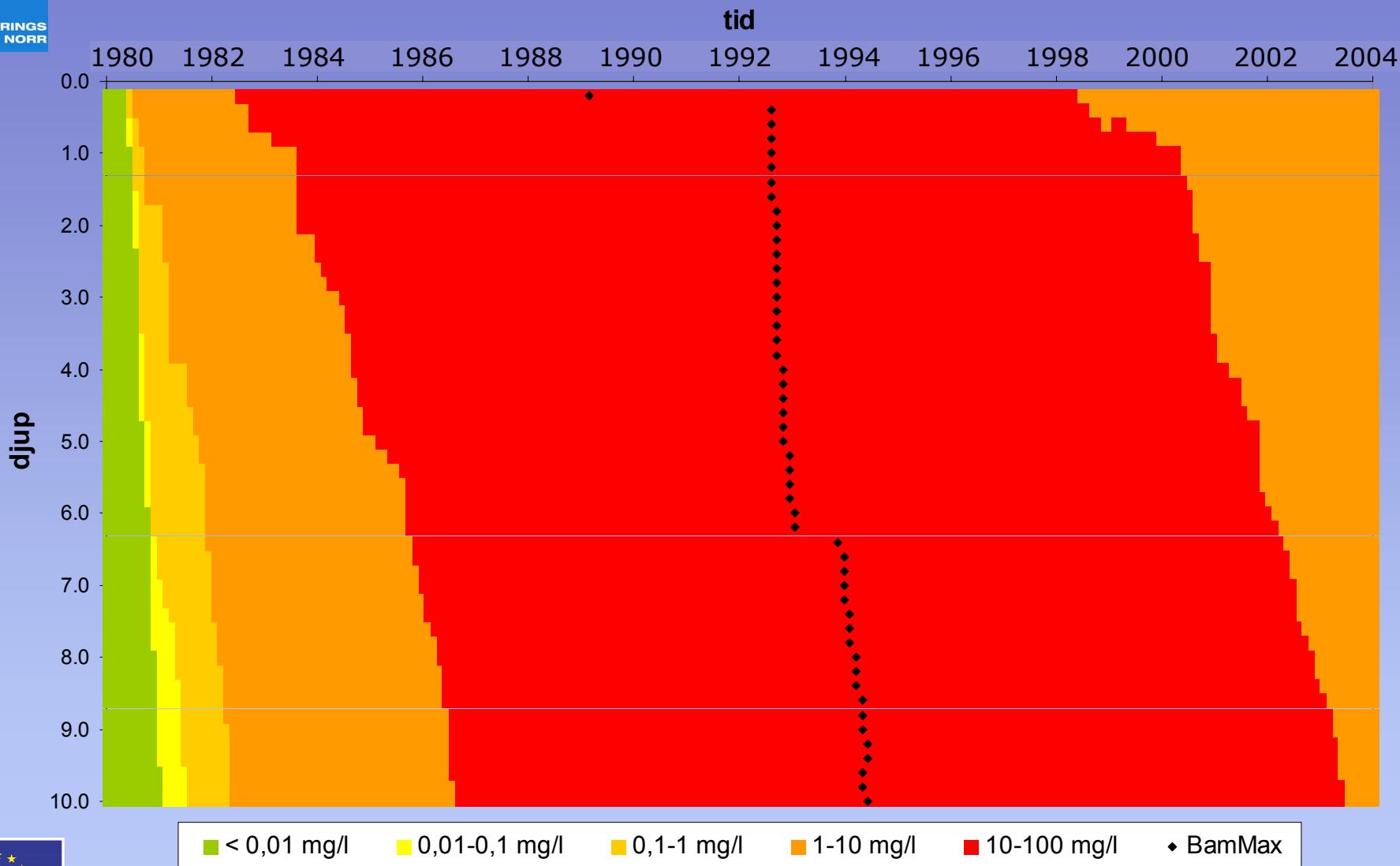
Analyser på jord

Organiskt innehåll
Al, Fe, C, Si
Kornstorlek
 $C_{\text{diklofenil}}$
 C_{BAM}

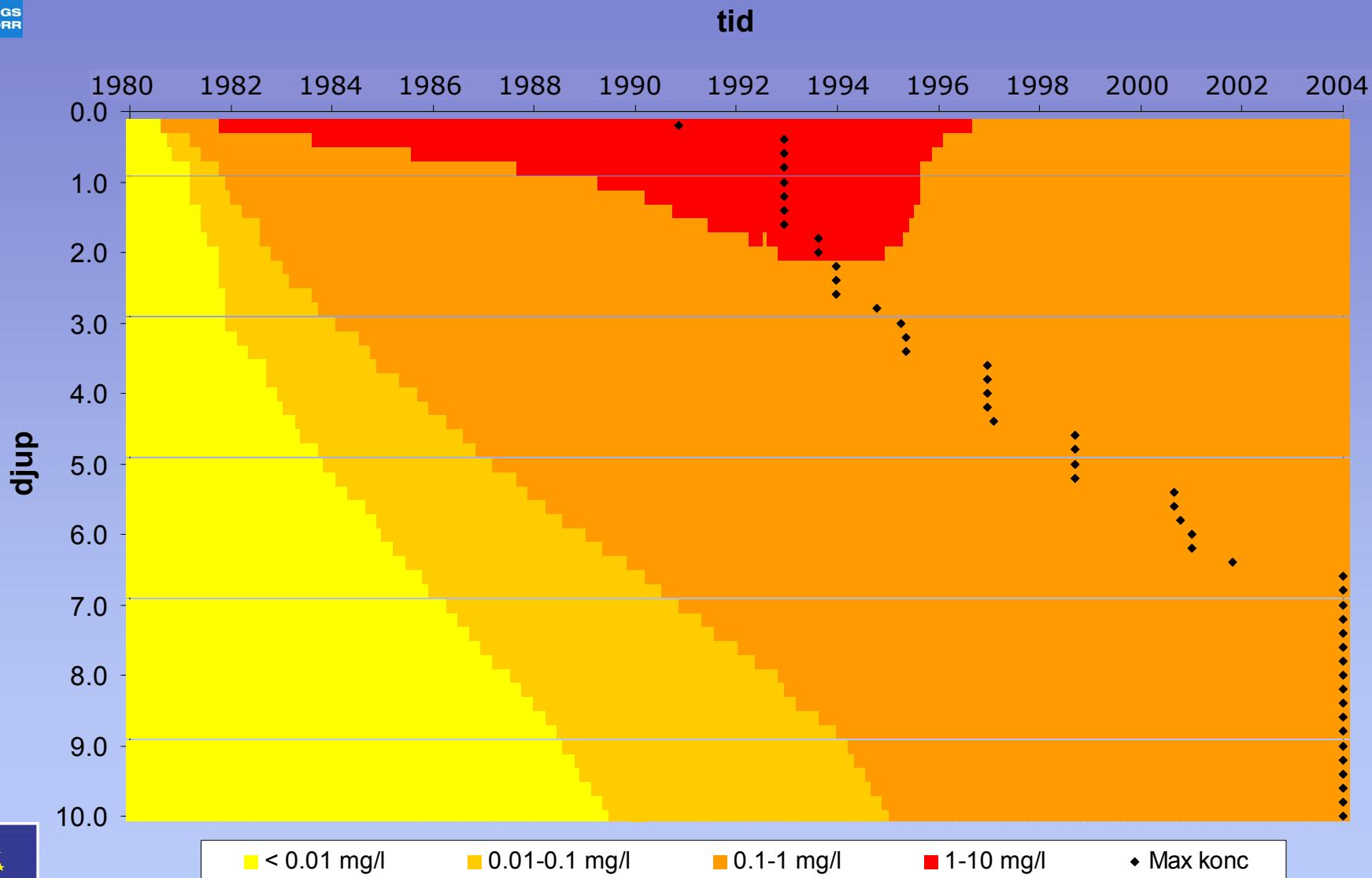
Koncentration BAM 1991-2019



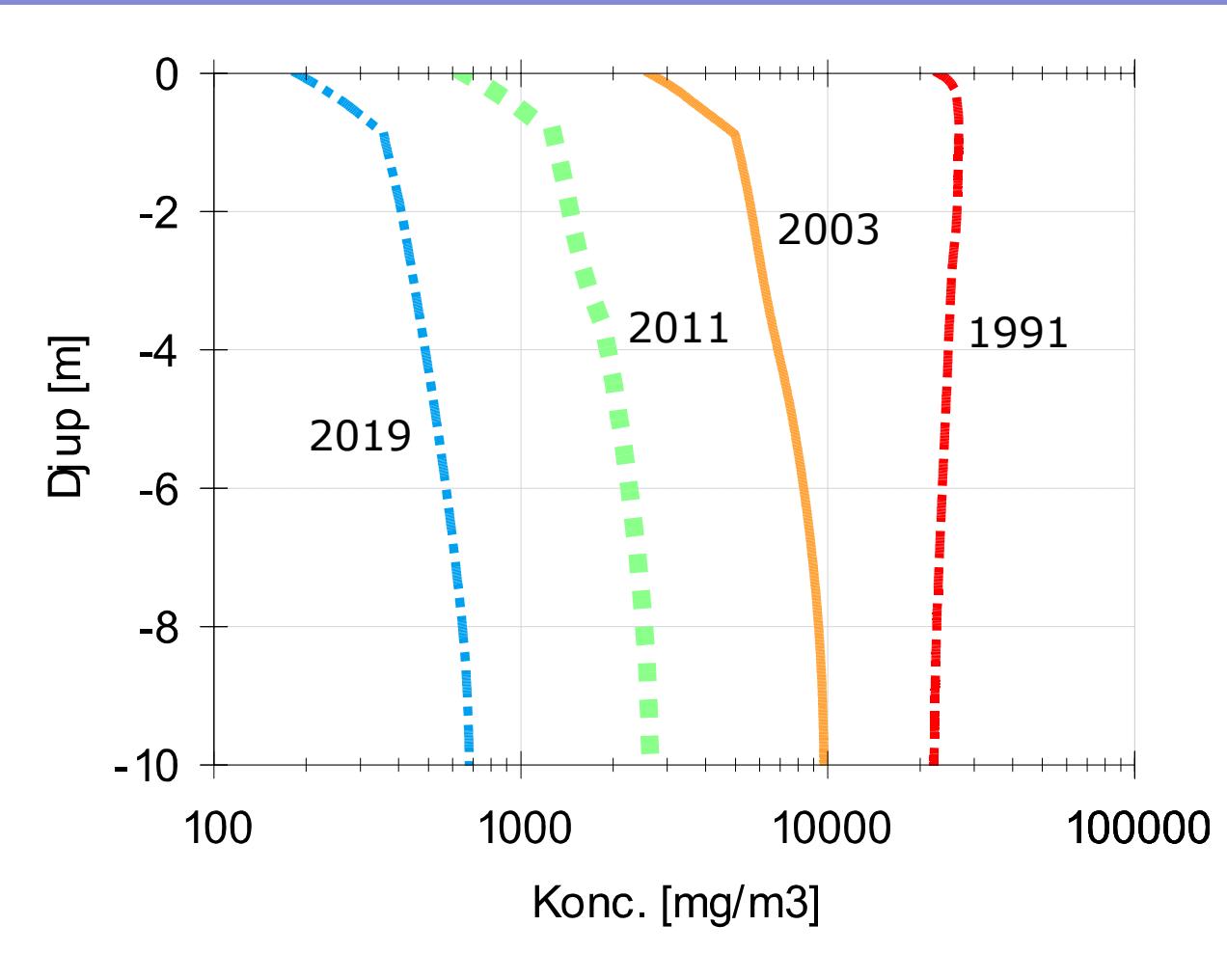
BAM koncentration i markvatten



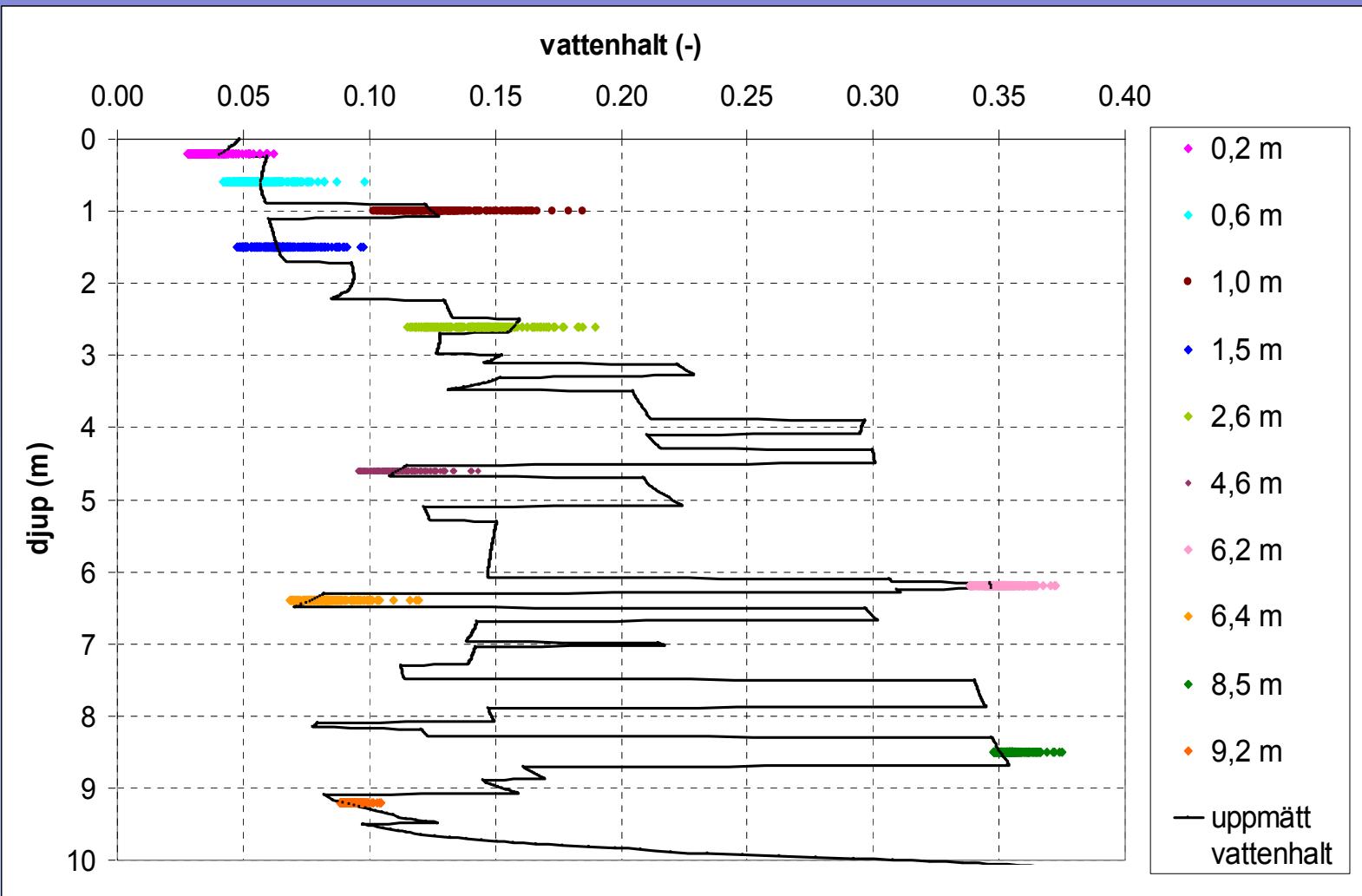
Diklobenil konc i markvatten



Koncentration BAM 1991-2019



Variation i vattenhalt över tid



Definition

Risk for contaminant transport –

The probability that contaminant transport can cause an effect on the water quality of the aquifer



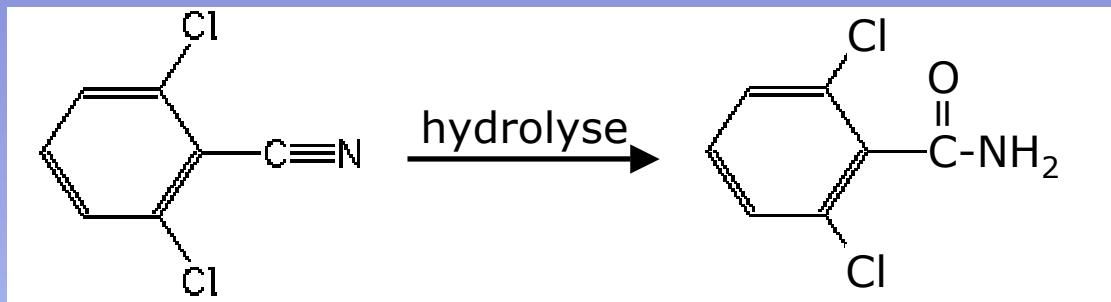
Hypothesis

Computer modelling tools can be used in an early phase of site investigations to estimate risk for contaminant transport in an aquifer

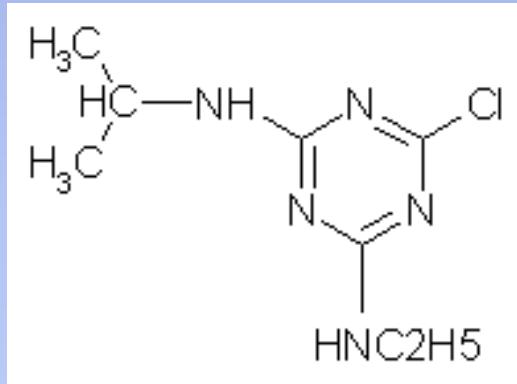


Totex – an herbicide

- Dichlobenil



- Atrazine



Field studies

- Climate station
- ^{18}O -isotope analyses in soil water
- Injection of D_2O at soil surface
- Analyses of pesticides in groundwater pipes
- Lysimeters to collect contaminated soil water
- Soil samples from surface to groundwater level at 10 m
- Salt injection into groundwater
- Pumping tests

