

Estimation of critical atmospheric input

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Estimate a total for a basin using the share of atmospheric loads in a reference period

$$CAI_{total} = \frac{ATM_{ref}}{TOT_{ref}} MAI$$

Result is sensitive to which period is used for reference because atmospheric deposition in general have decreased more than waterborne inputs

Spatial distribution

- Test to distribute CAI spatially using EMEP grid outputs (just starting)

$$CAI_{i,j} = \frac{ATM_{i,j}}{\frac{1}{N} \sum ATM_{i,j}} \frac{ATM_{ref}}{TOT_{ref}} MAI$$