

Air quality monitoring programme

<i>Parameter</i>	<i>Sampling frequency</i>
SO ₂	daily / monthly
NO ₂	daily / monthly
PM ₁₀	daily
Precipitation	daily

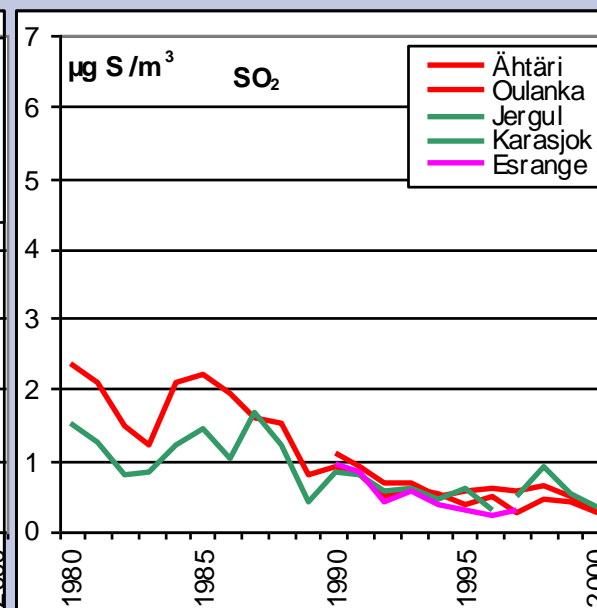
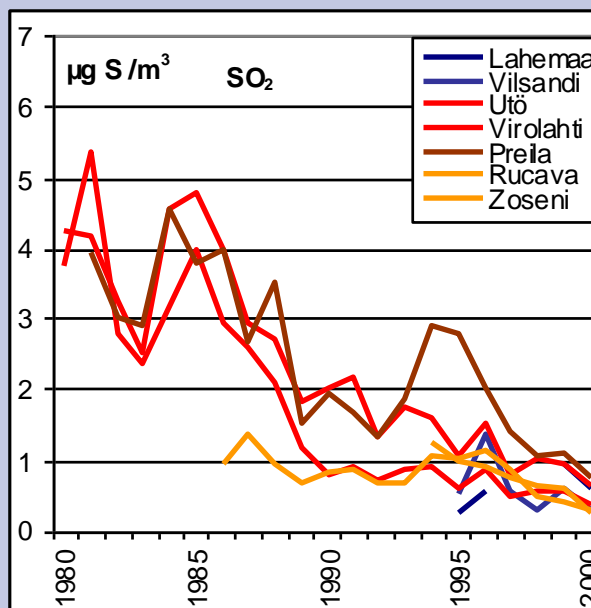
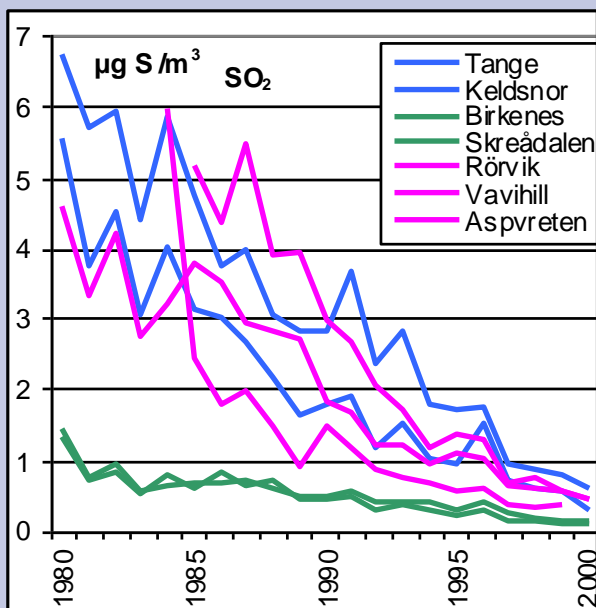
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Monitoring objectives

- trend studies / follow up of actions
- model validation
- source apportionment
- comparison with i.a. critical loads
- reference to urban areas / impact studies

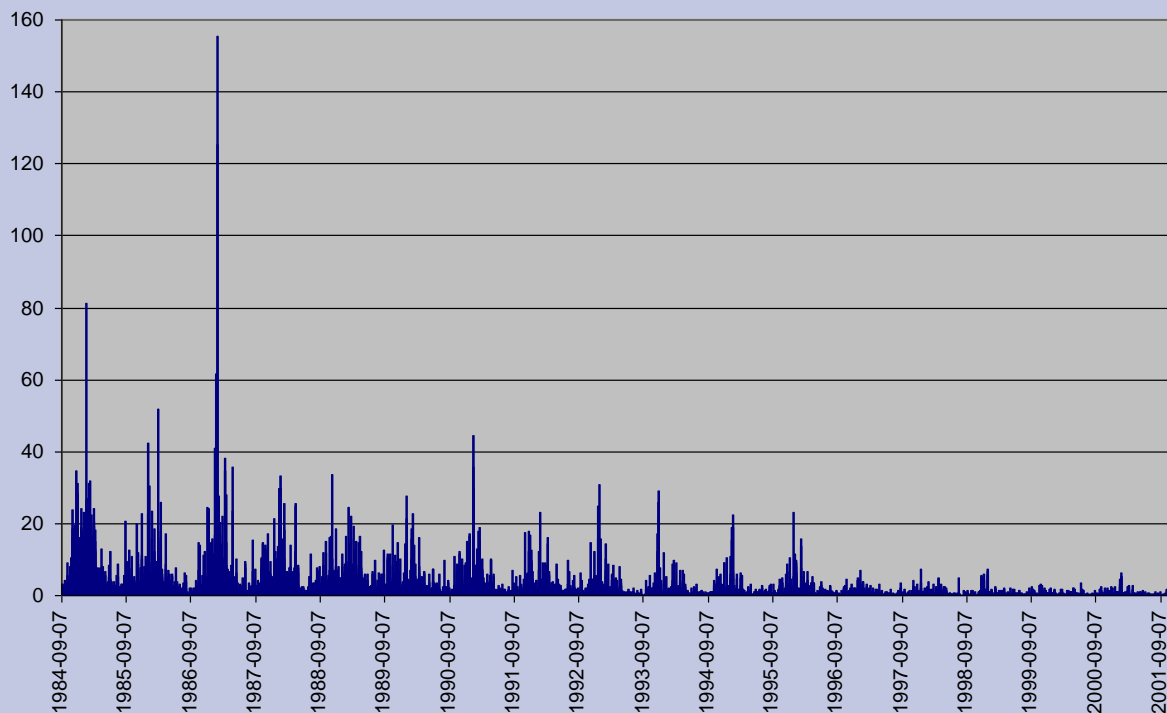
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Trends - yearly means



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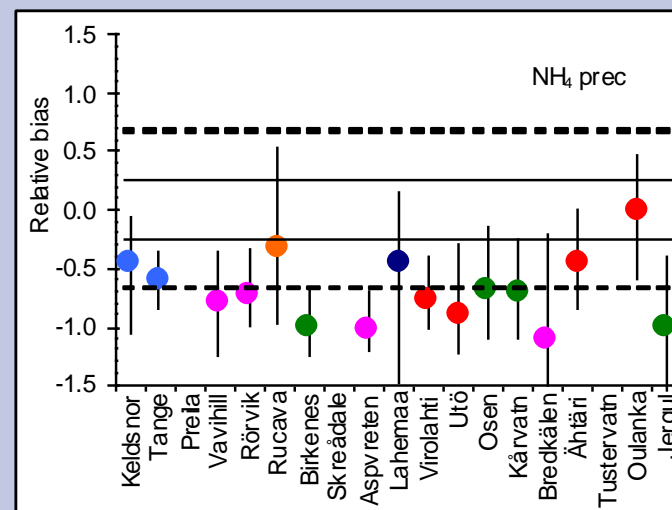
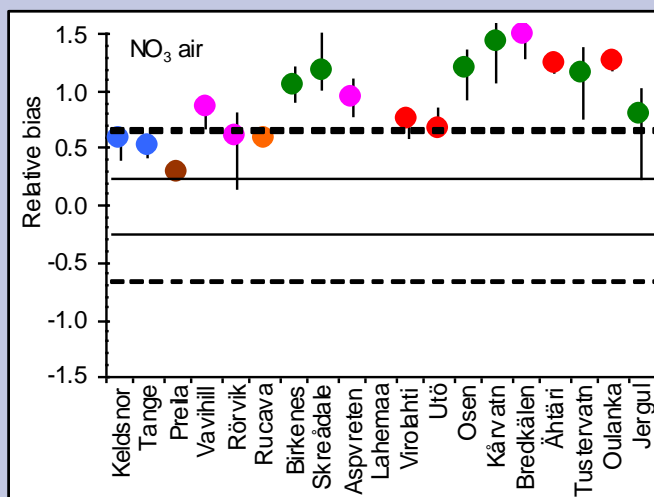
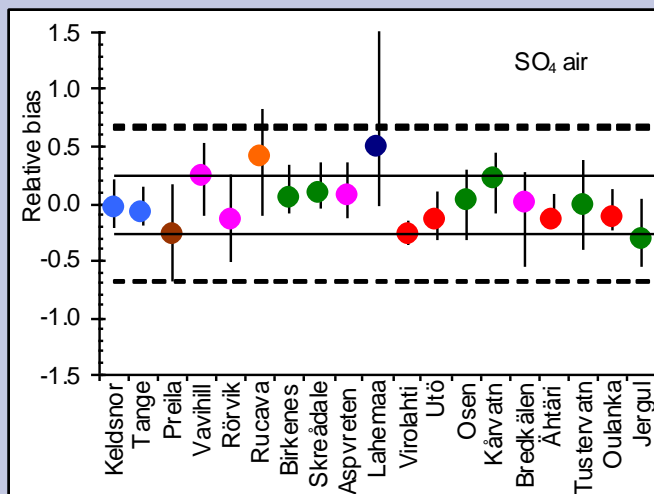
Trends - daily means



*Daily means of SO_4-S
at Vavihill in southern
Sweden 1984-2001
($\mu g/m^3$)*

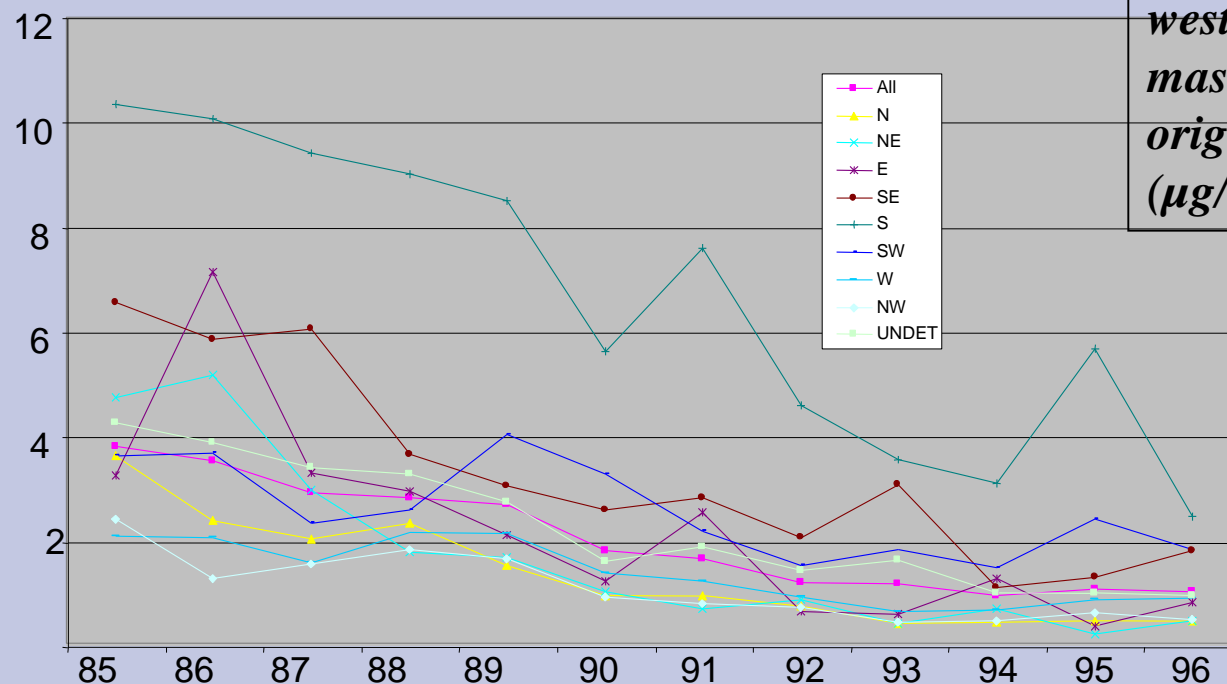
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Model validation



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Source apportionment

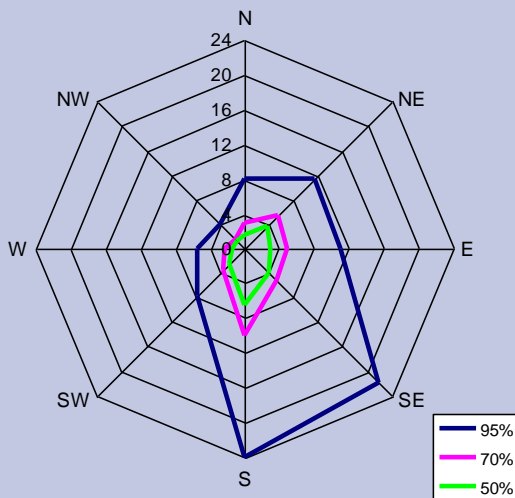


Annual mean SO₂-S at Rörvik (Swedish west coast) in air masses of different origin 1985-1996 (µg/m³)

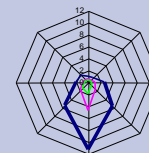
Source apportionment

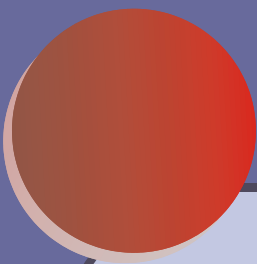
SO₂-S concentrations in air masses of different origin at the Rörvik station

1985-1987



1994-1997





Source apportionment

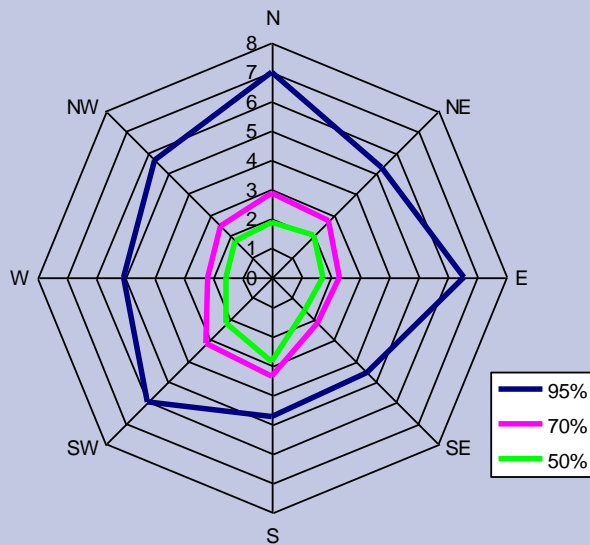


Figure 11a
Origin of daily NO_2-N concentrations at Rörvik
1985-87 ($\mu g N/m^3$)

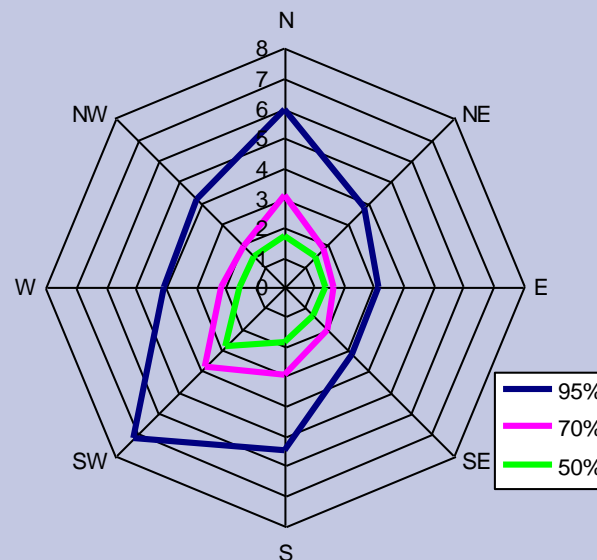
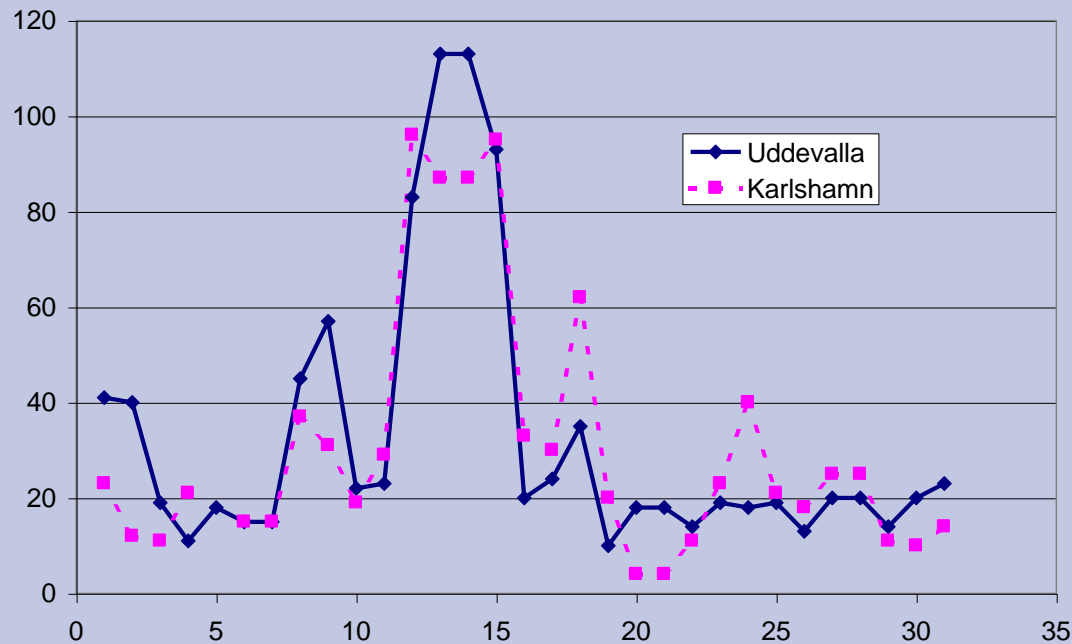


Figure 11b
Origin of daily NO_2-N concentrations at Rörvik
1994-96 ($\mu g N/m^3$)

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Source identification

importance of long range transport



Daily means
of soot in
march 1965