

Kvælstof- og fosforkoncentrationer i udvalgte Sjællandske vandløb

Forfattere:

Flemming Gertz, Chefkonsulent, Plante- & Miljøinnovation

Tobias Berthel Bendixen, Studentermedhjælper, Plante- & Miljøinnovation

Line Kolding Thostrup, Miljøkonsulent, Plante- & Miljøinnovation

STØTTET AF
Promilleafgiftsfonden for landbrug



Introduktion

Diagrammerne i denne rapport er udarbejdet på baggrund af målingsdata for N- og P-koncentrationer for alle vandløbsmålestationer øst for Storebælt, med undtagelse af Bornholm. Følgende N- og P-fraktioner indgår i rapporten: total N, ammoniak+ammonium-N, nitrit+nitrat-N, total P og orthofosfat-P.

Data er hentet fra Overfladevandsdatabasen (ODA) for perioden 1990-2020.

Rapporten har fokus på den historiske udvikling i N- og P-koncentrationer ud fra 10-års gennemsnit vist på månedsbasis. For at sikre et solidt datagrundlag indgår der kun målestationer, som har minimum 10 måneders måling hvert år de seneste 30 år. 35-44 målestationer opfylder dette kriterie for de respektive N- og P-parametre. Der er opstillet individuelle diagrammer for de udvalgte målestationers udvikling samt den gennemsnitlige udvikling for disse stationer som benchmarking. Bemærk, at y-aksens maksimumværdi varierer mellem diagrammerne.

Overblik over de udvalgte målestationer ses af indholdsfortegnelsen, som er inddelt i kapitler for de enkelte parametre. Hvert kapitel indledes med et kort over de pågældende målestationers geografiske placering, som er generet på Arealinformation ud fra GPS-data fra ODA.

I forhold til tolkning af graferne er det væsentligt, at graferne alene udtrykker koncentrationer og ikke mængder. Der ses for kvælstof typisk med højere værdier om vinteren end om sommeren. Dette falder typisk også sammen med højere vandføringer om vinteren end om sommeren. For fosfor ses i flere vandløb et forløb, hvor koncentrationerne er højest om sommeren. Dette udtrykker ikke at den totale transport af fosfor er større om sommeren, da vandmængden om sommeren er lav. Den højere koncentration af fosfor, i visse vandløb om sommeren, skyldes formodentligt, at spildevandsandelen i vandløbet stiger med lavere vandføring.

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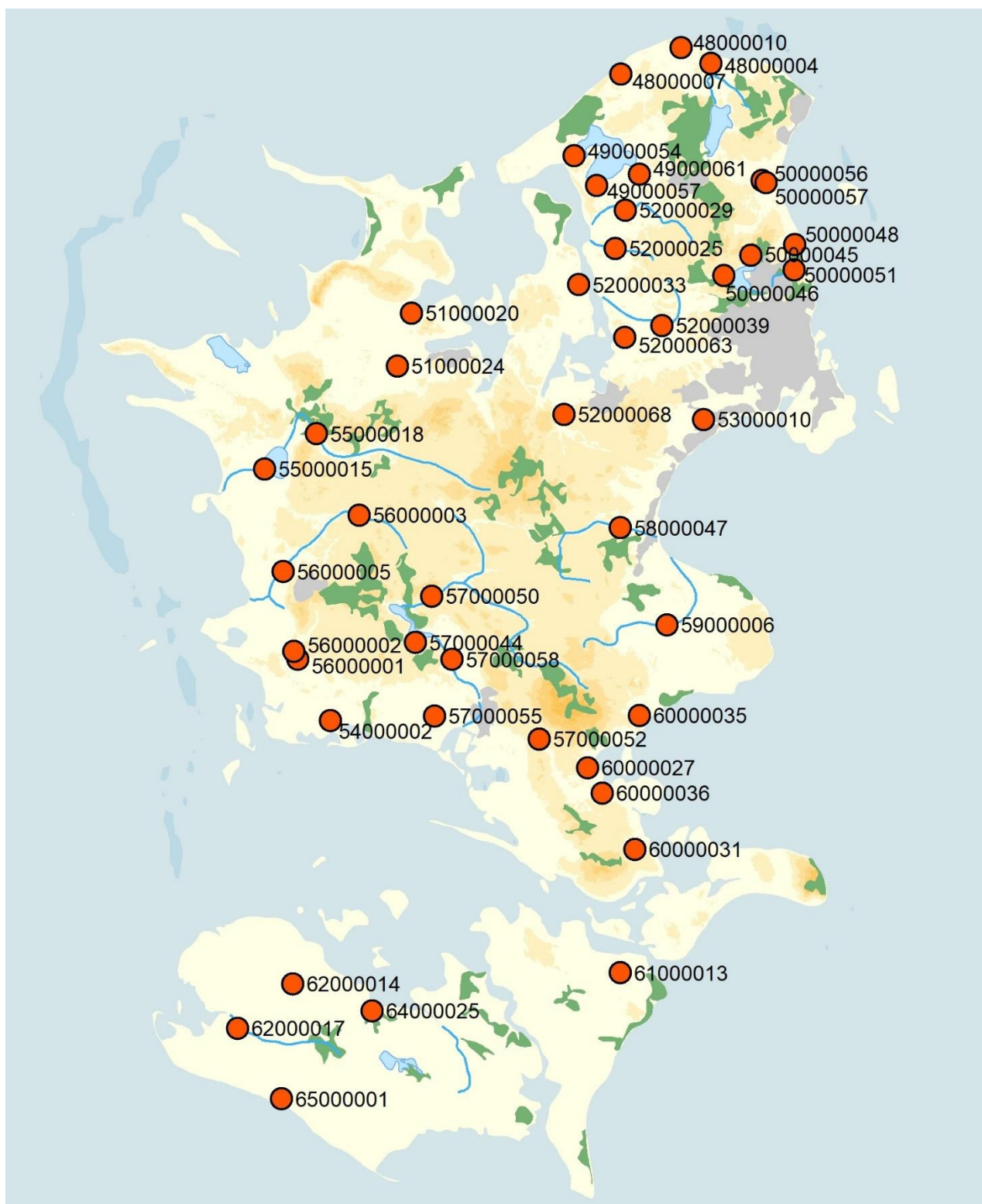
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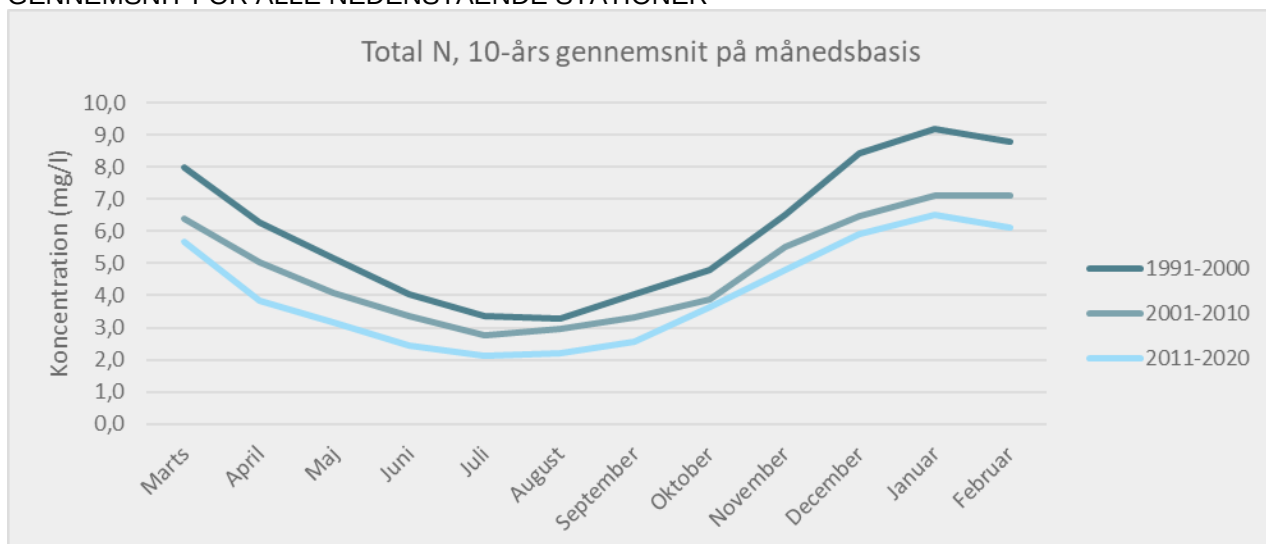
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1.1 Total-N

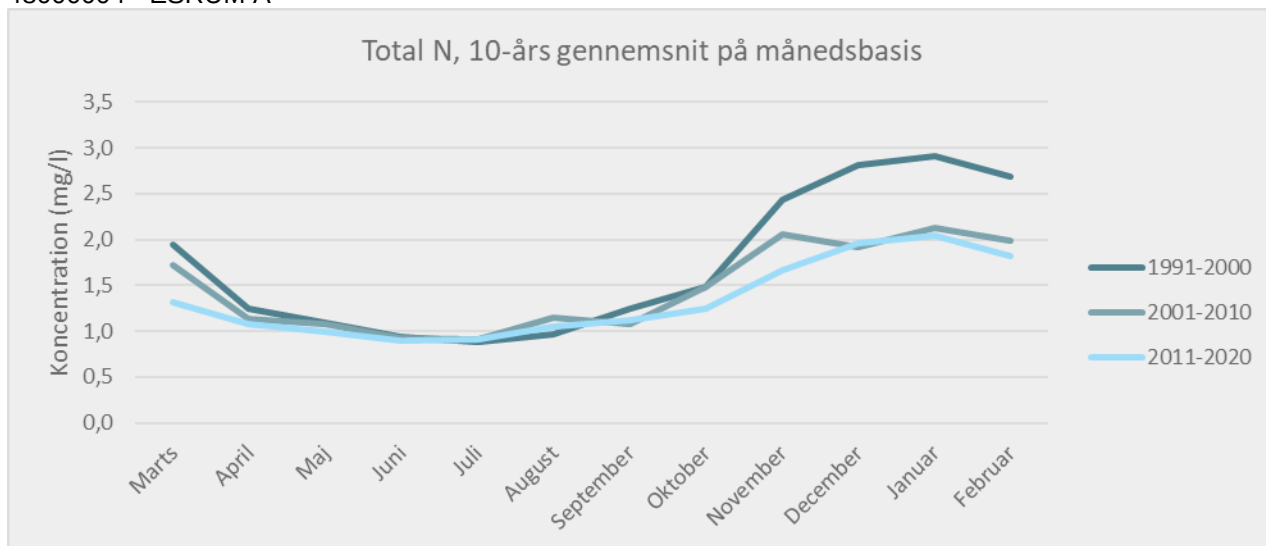


Geografisk placering af de 44 nedenstående målestationer udvalgt for total N

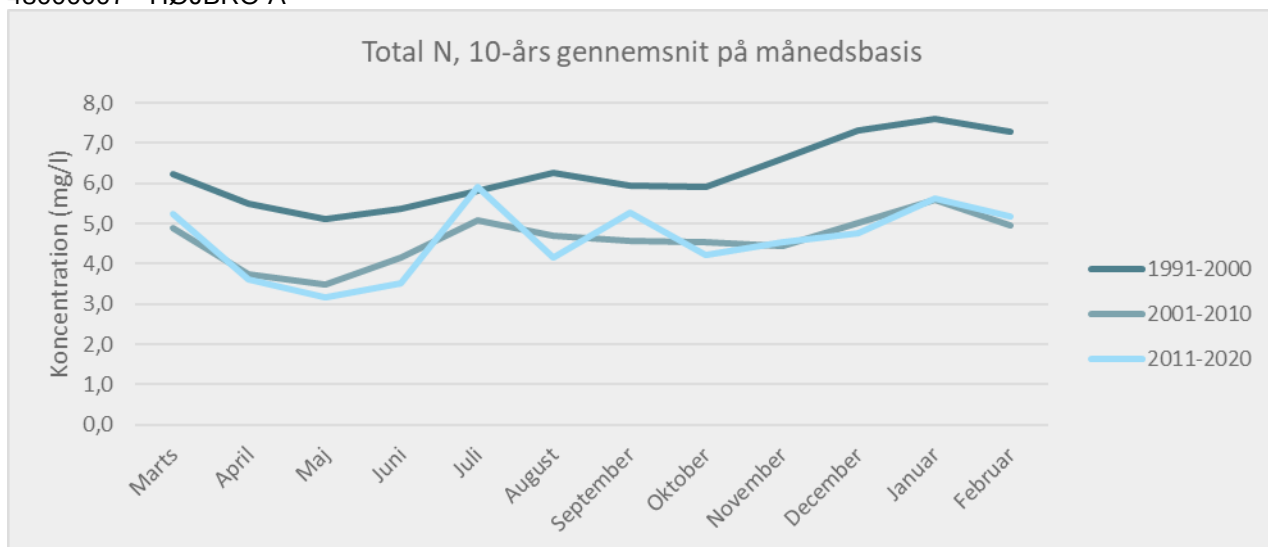
GENNEMSNIET FOR ALLE NEDENSTÅENDE STATIONER



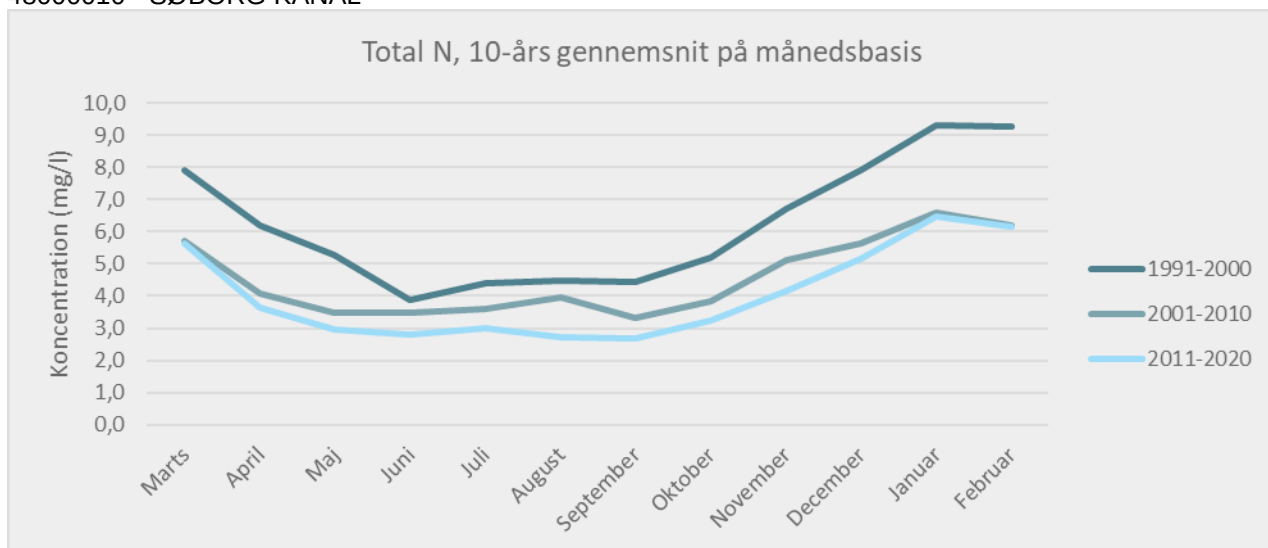
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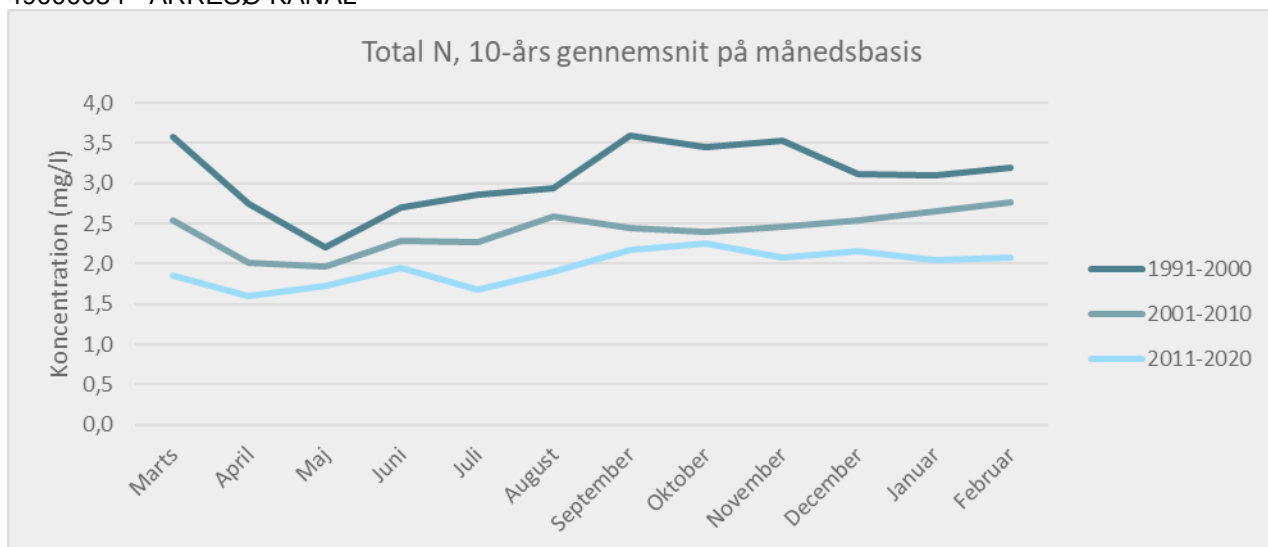
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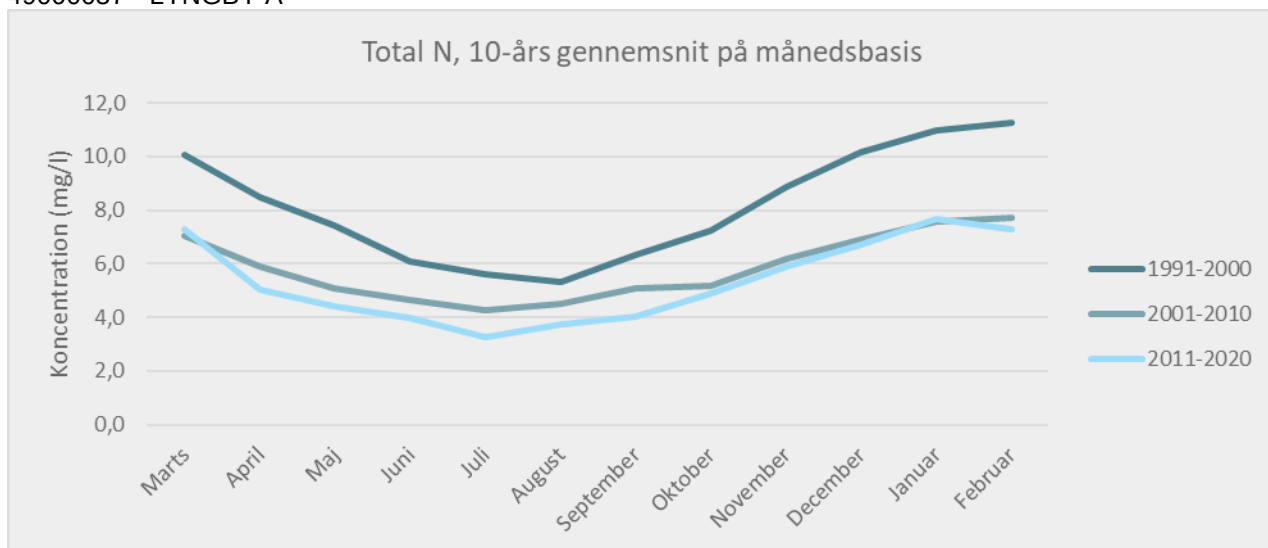
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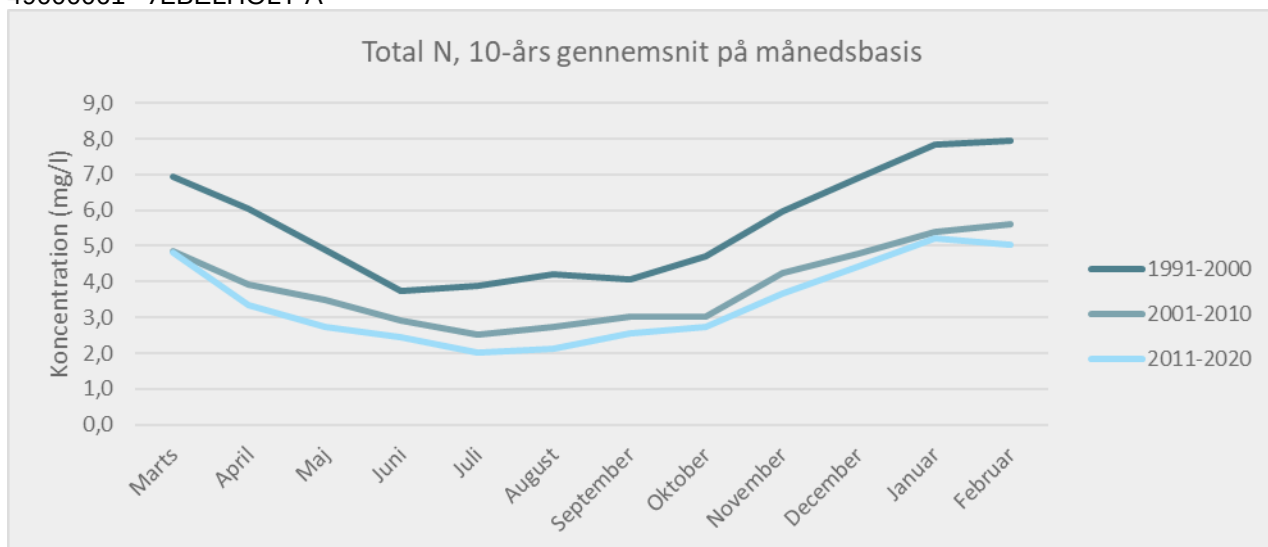
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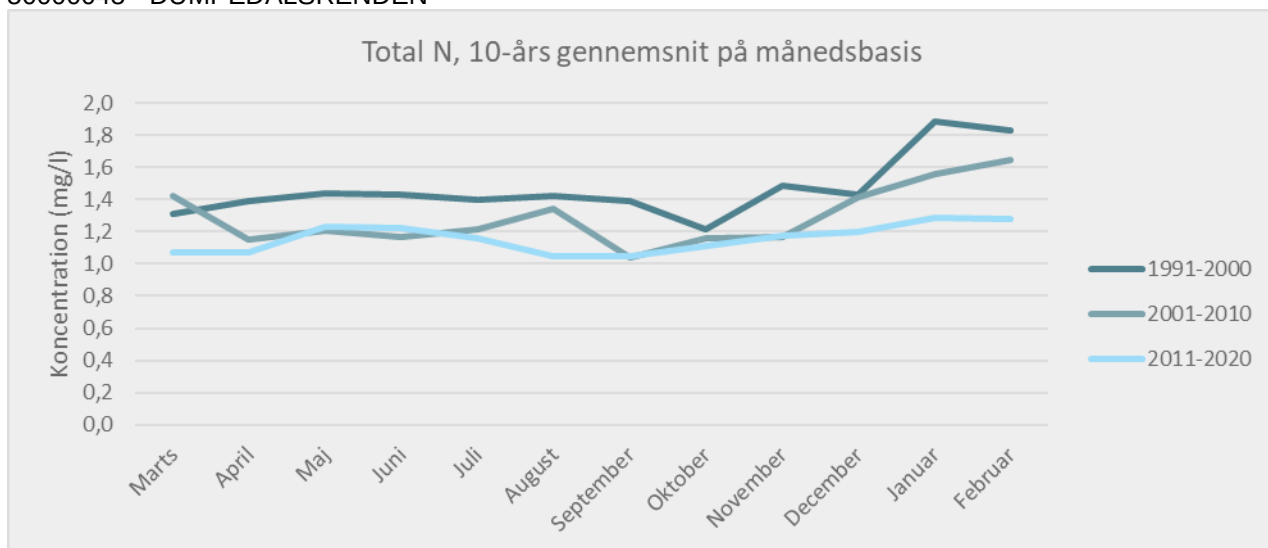
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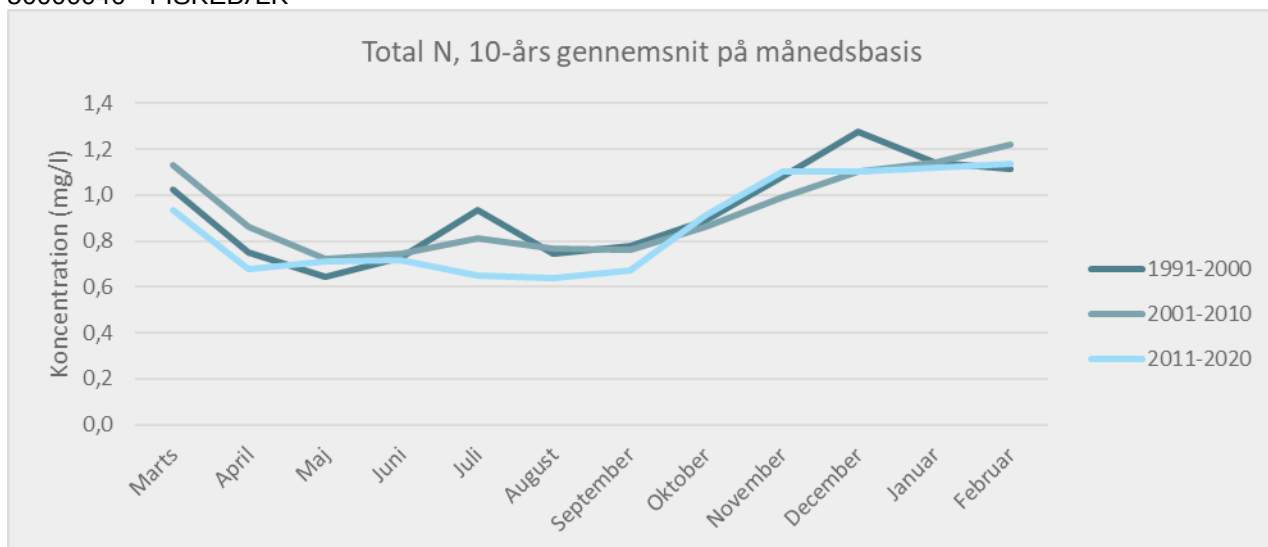
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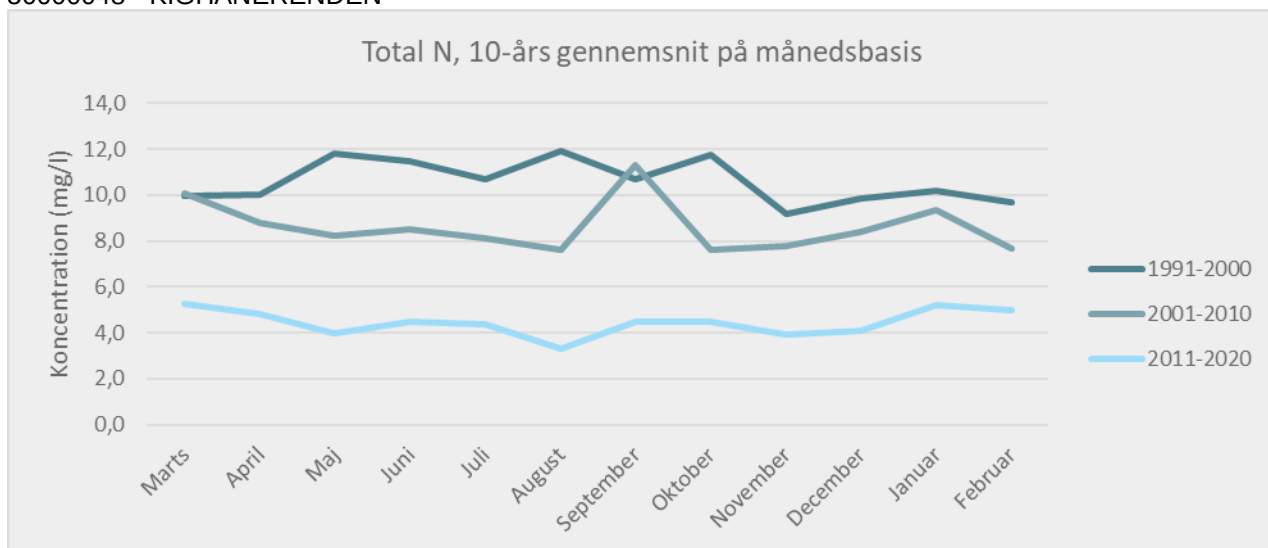
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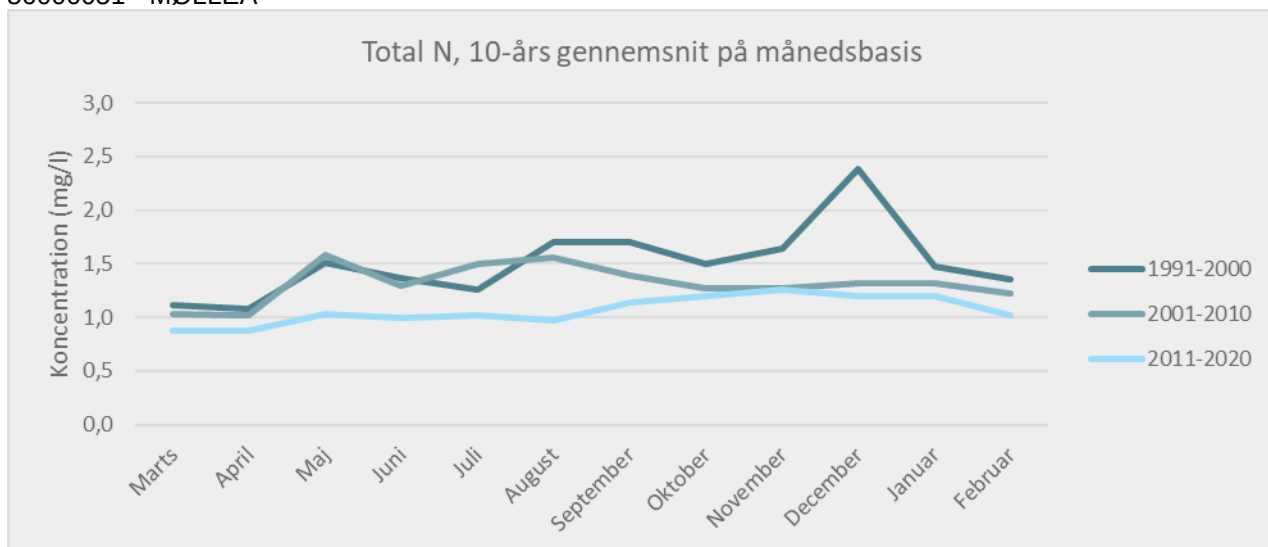
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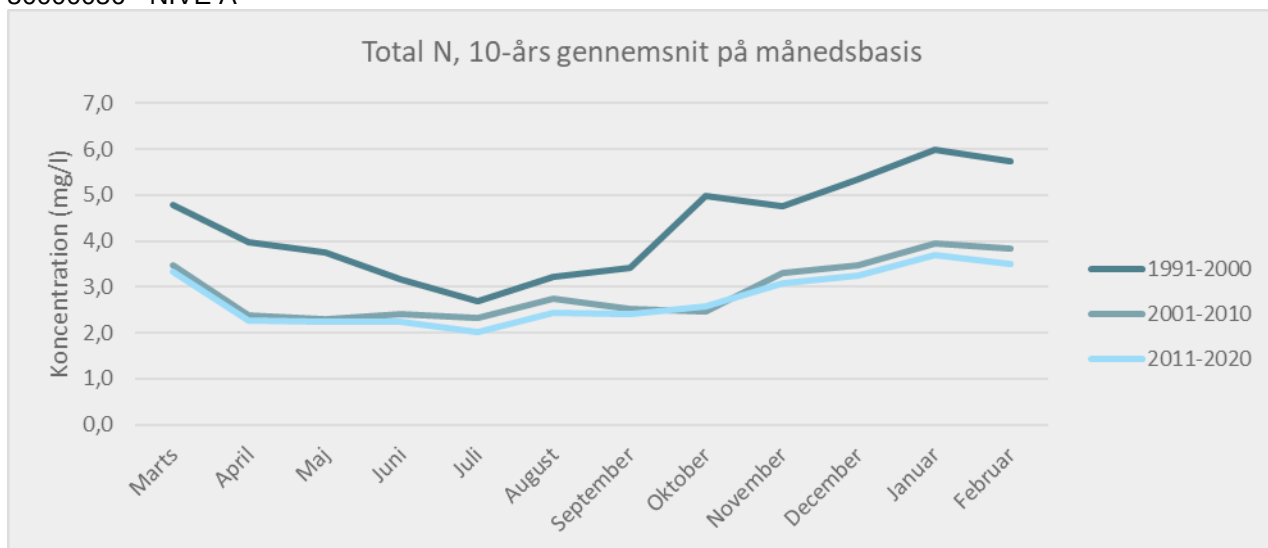
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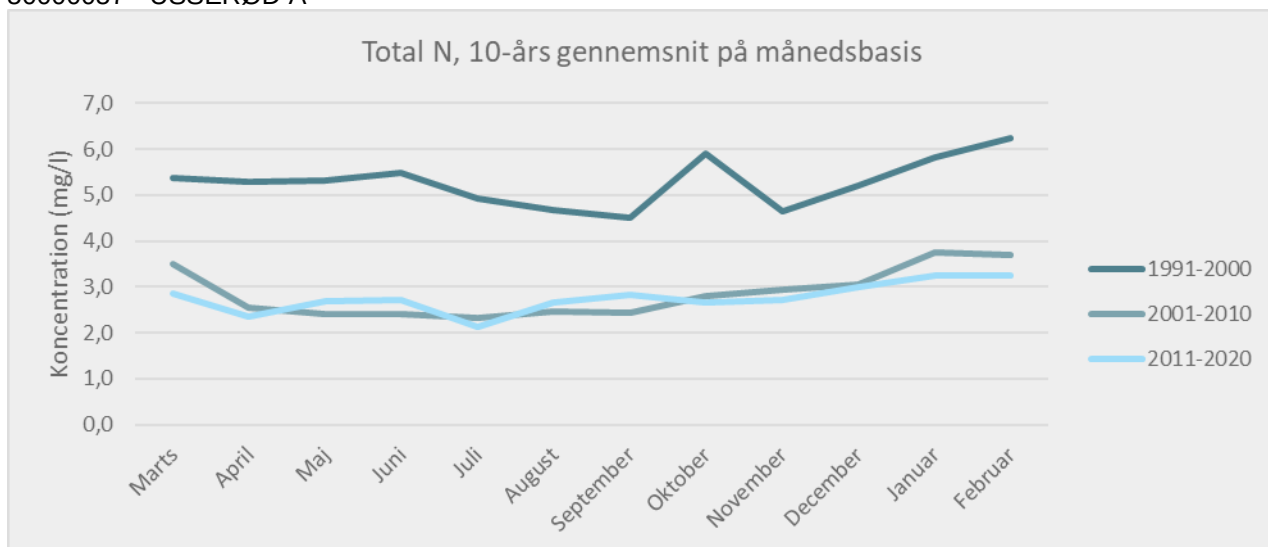
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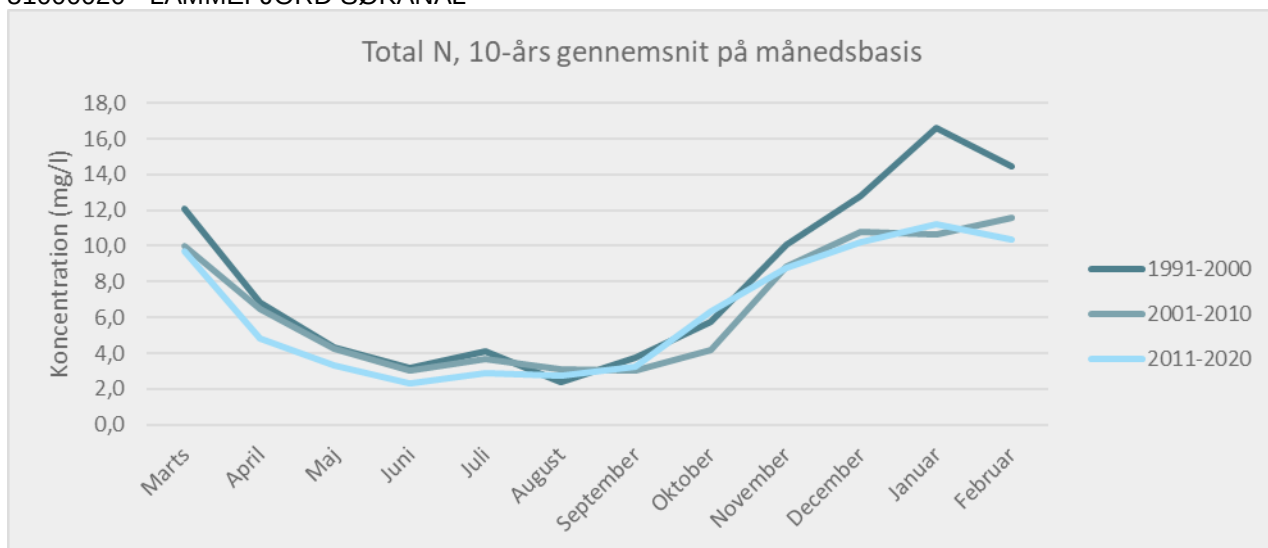
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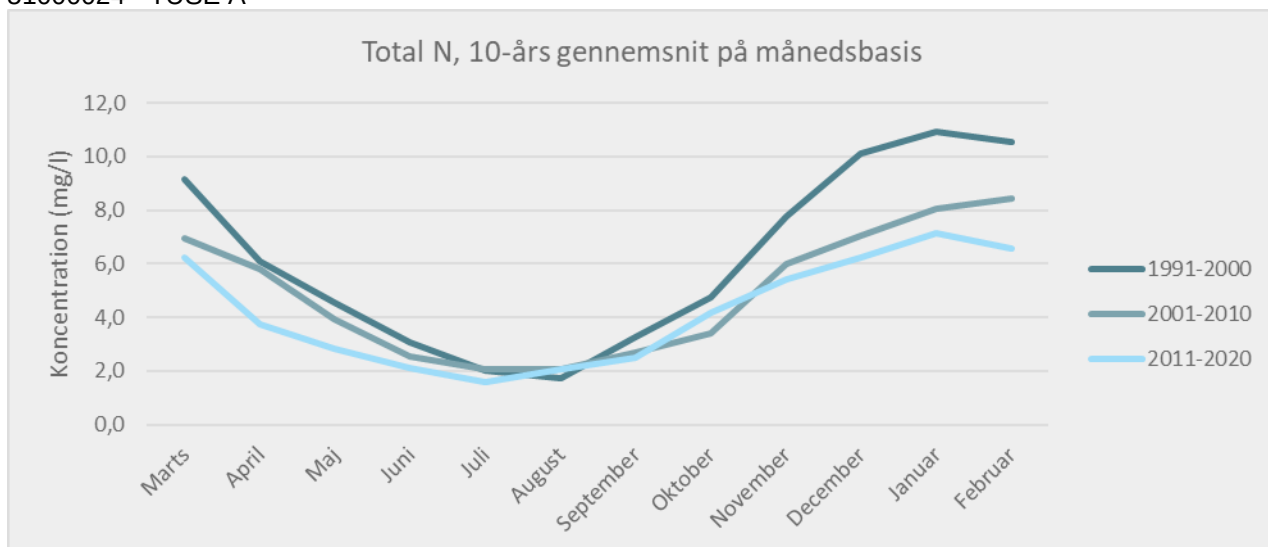
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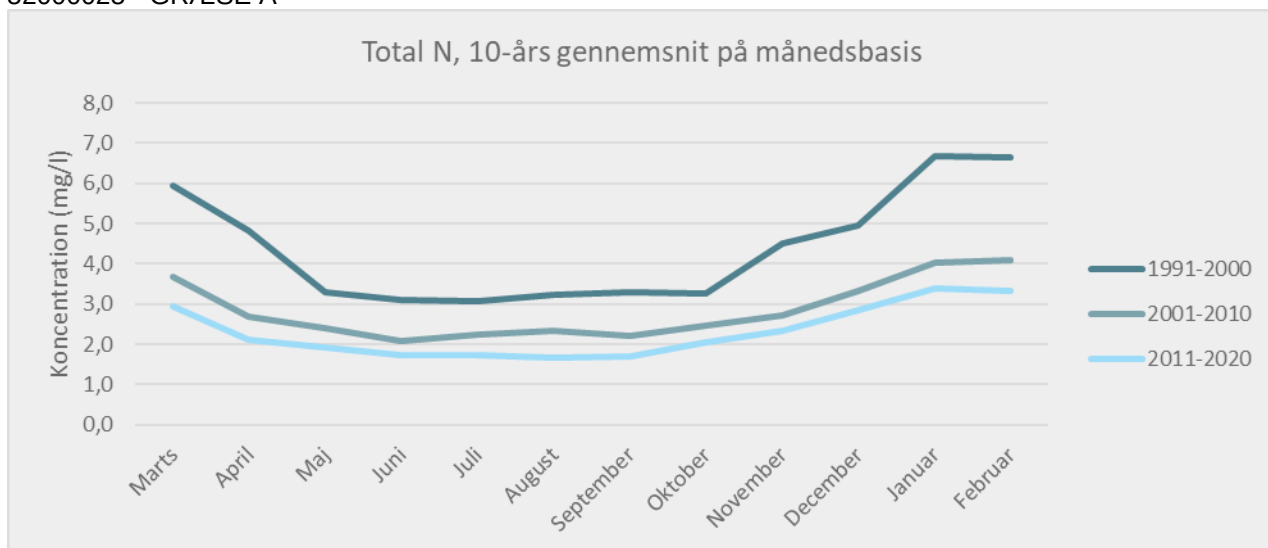
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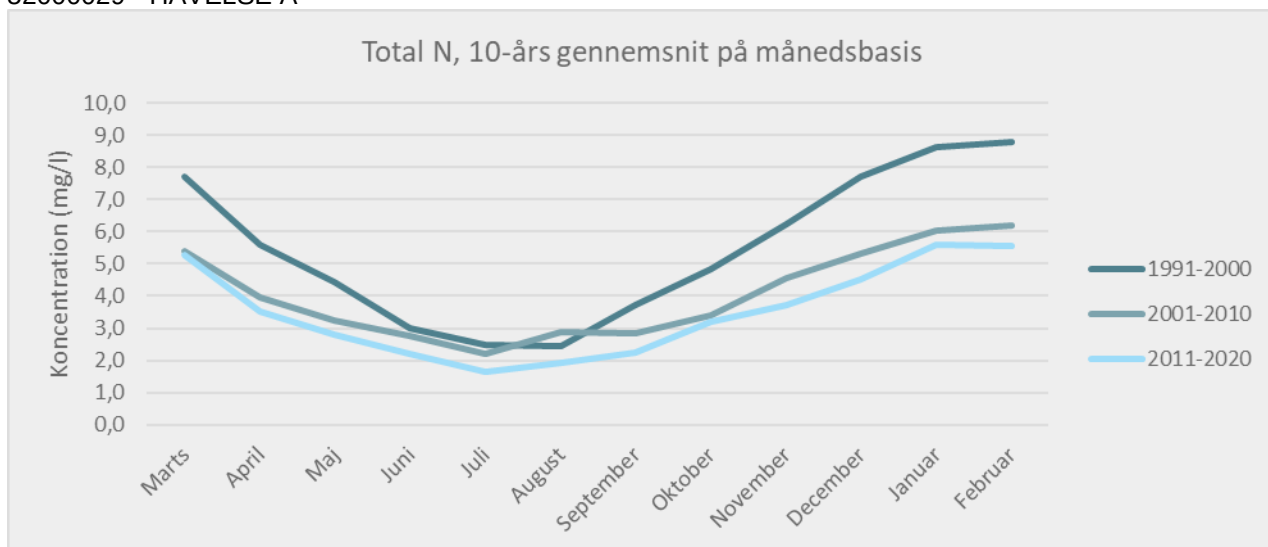
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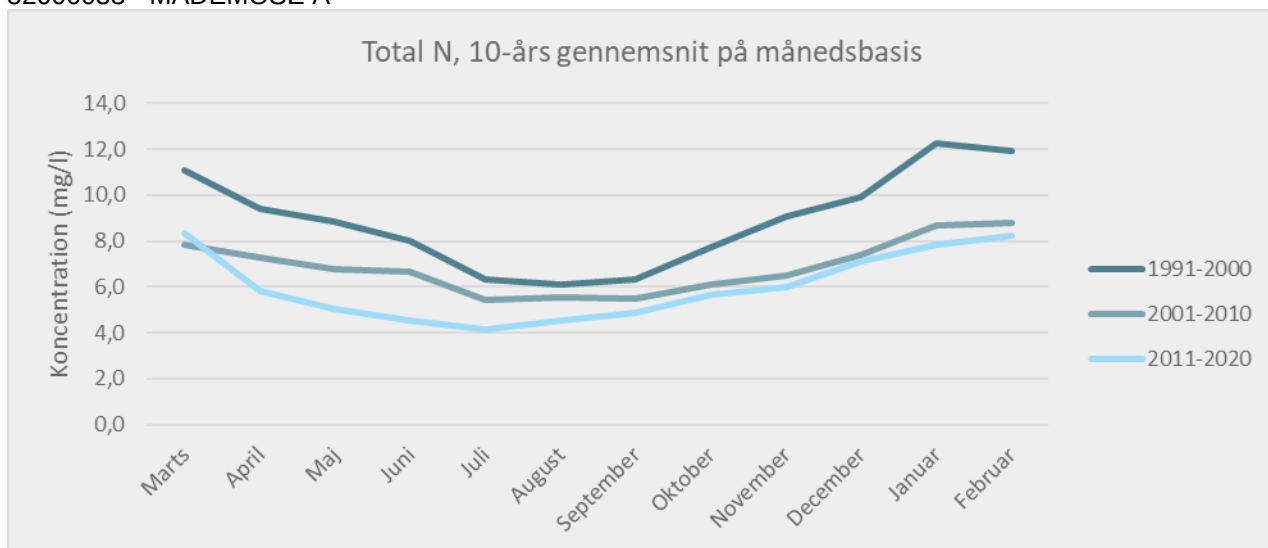
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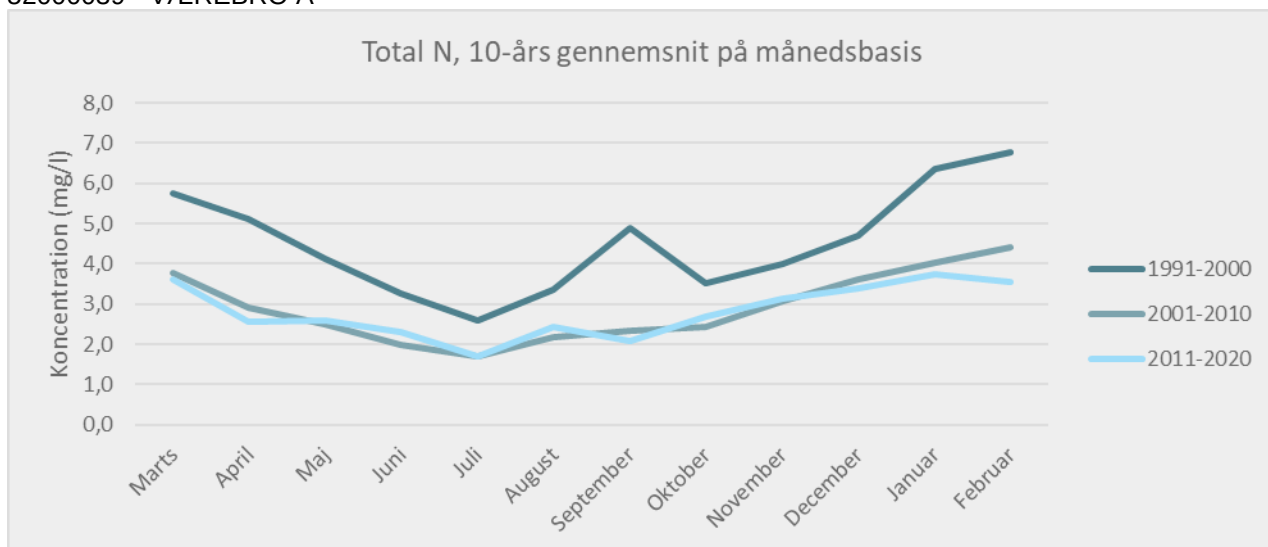
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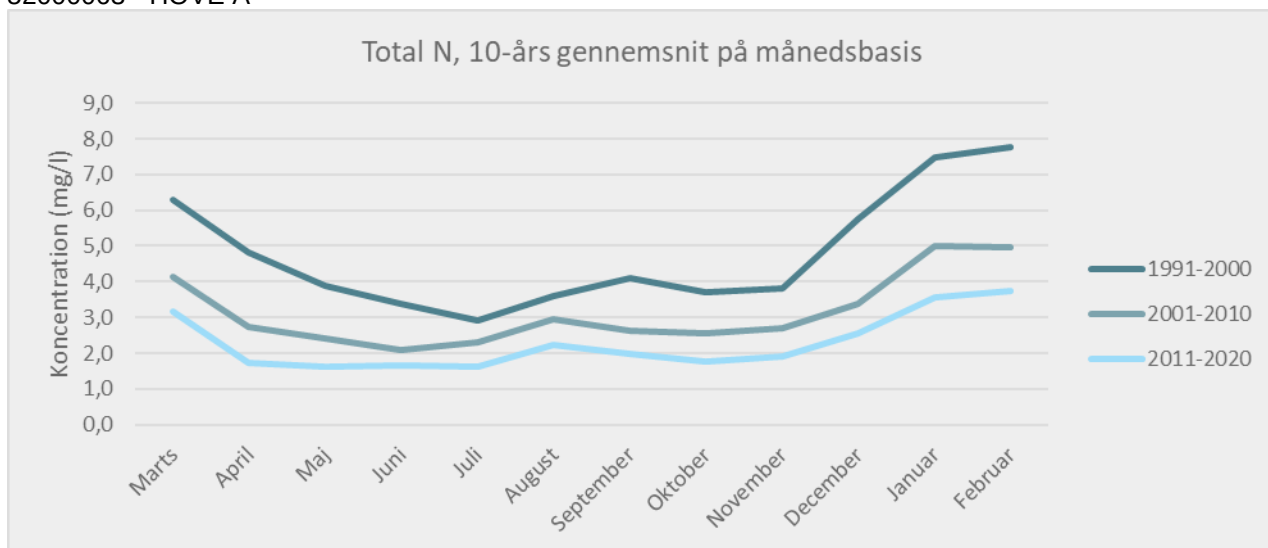
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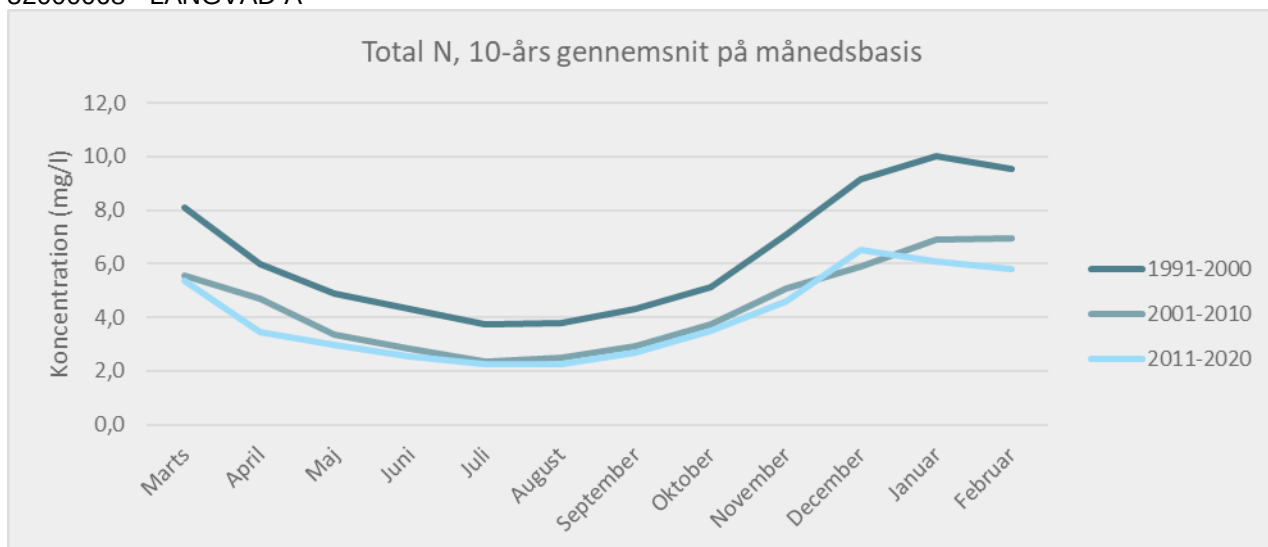
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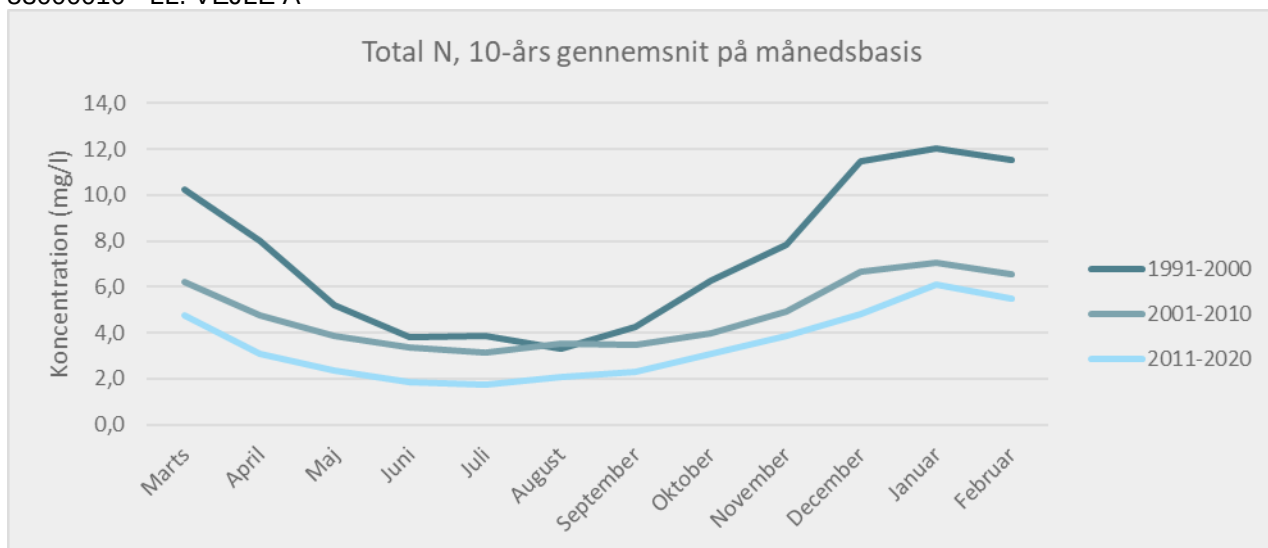
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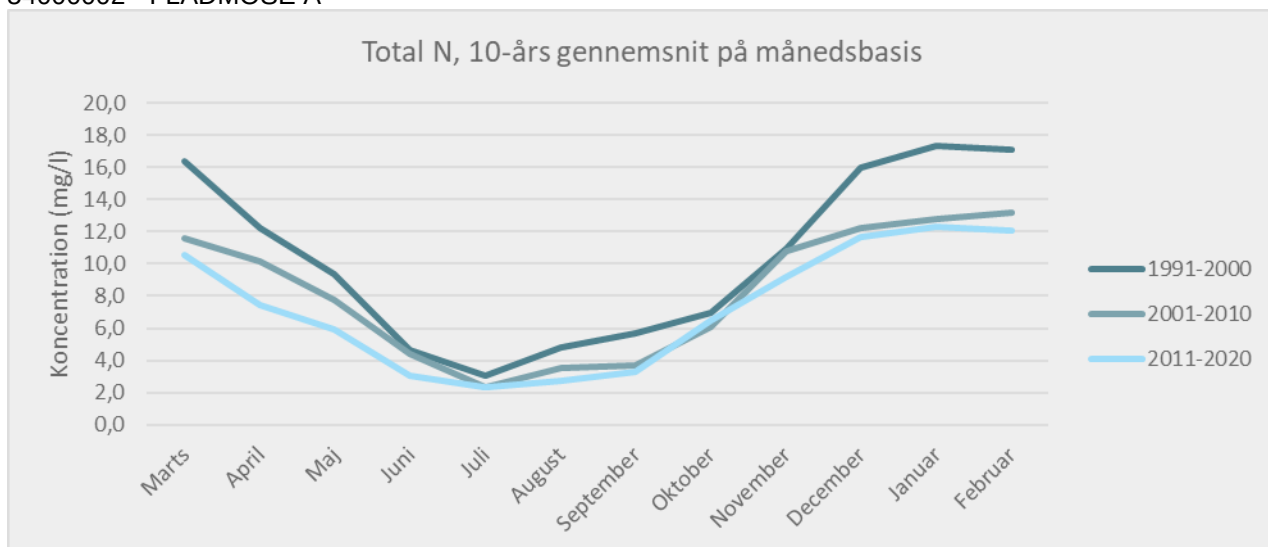
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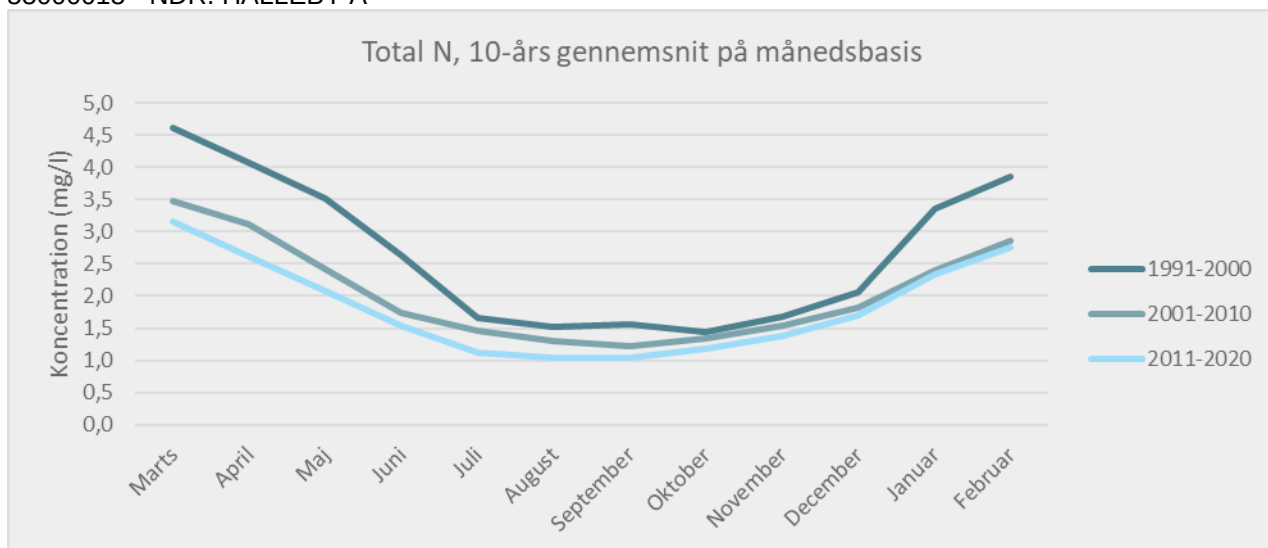
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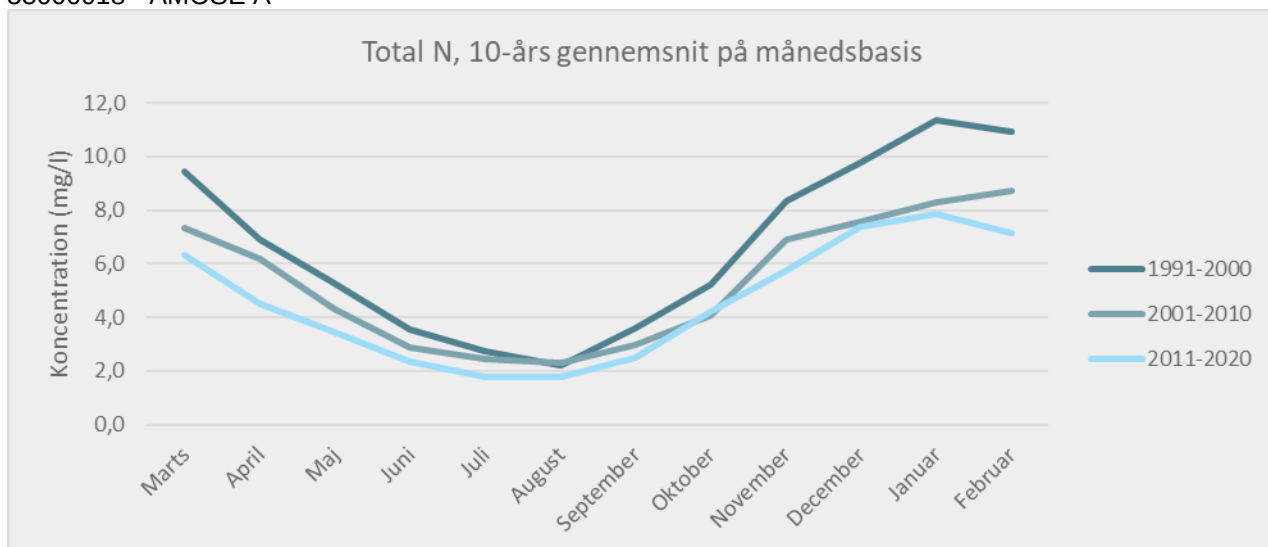
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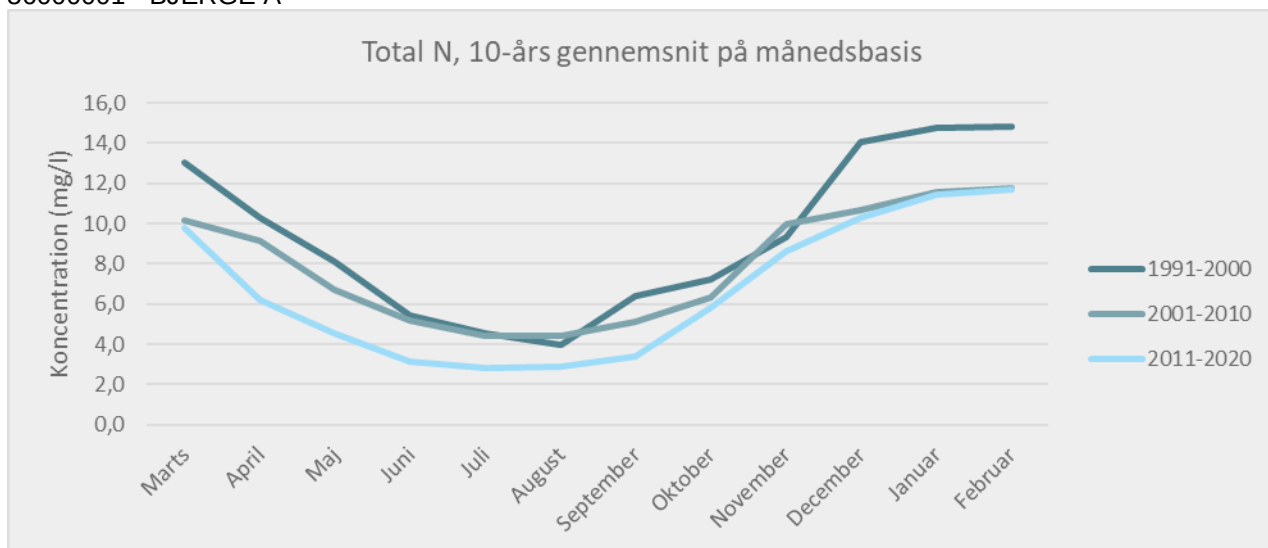
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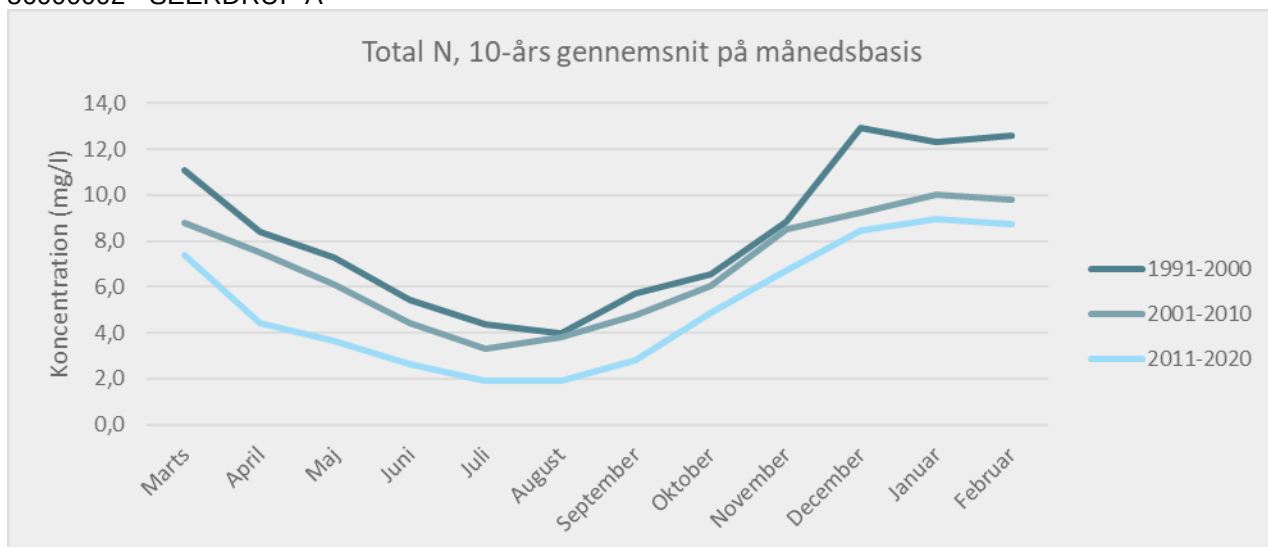
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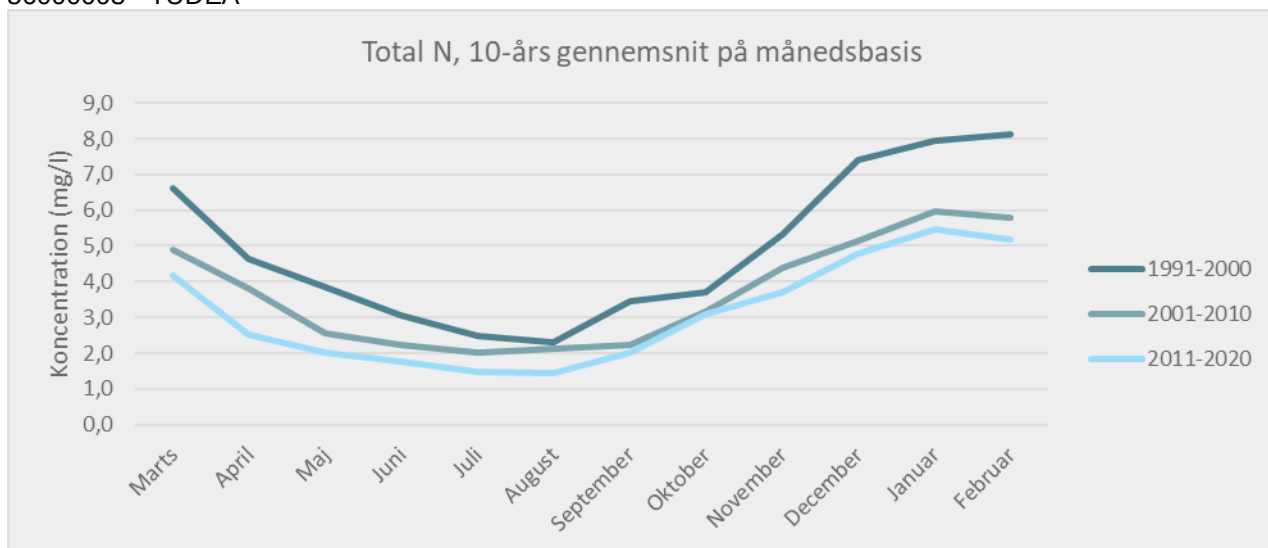
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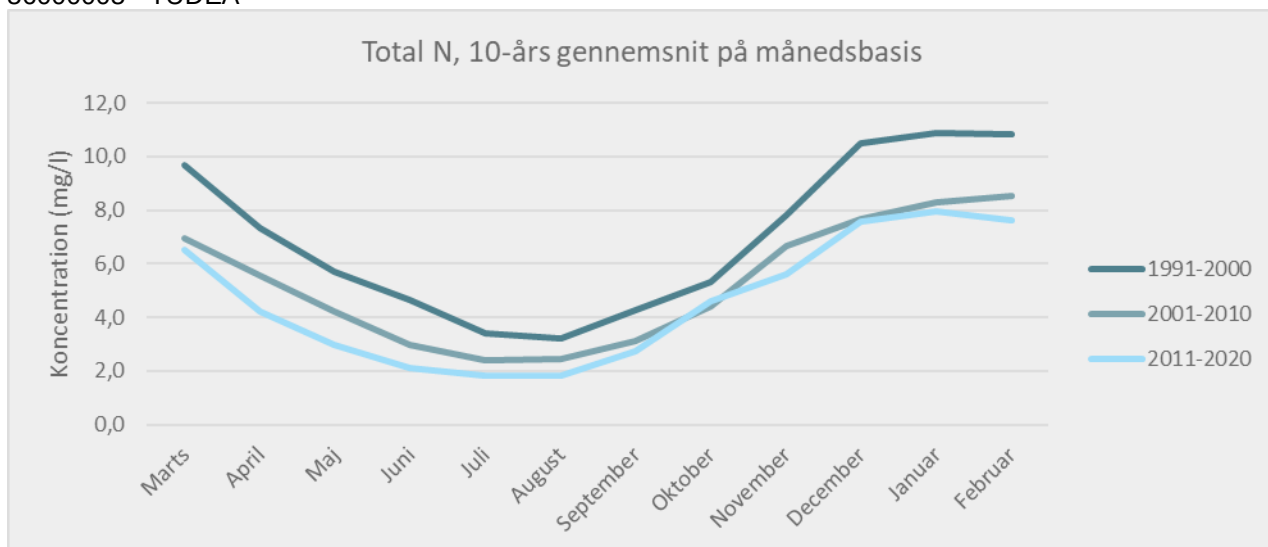
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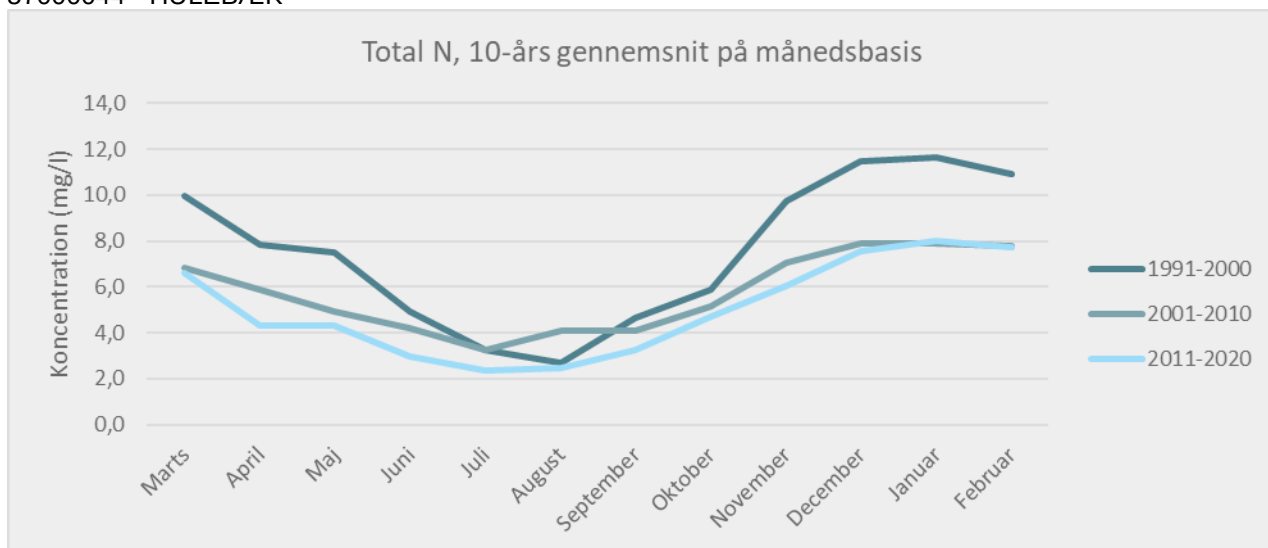
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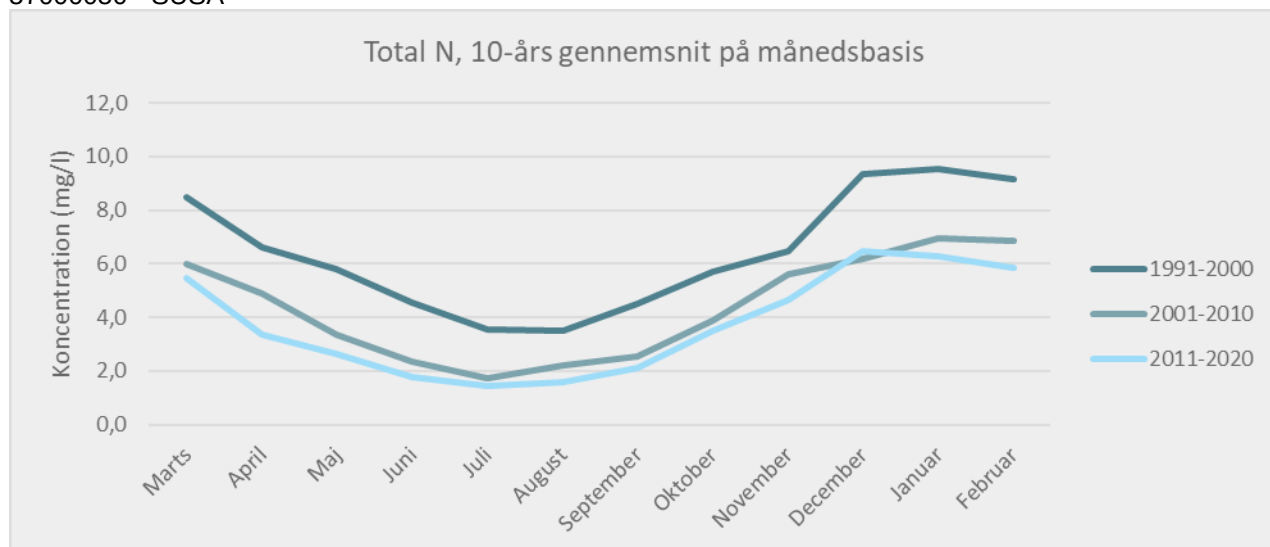
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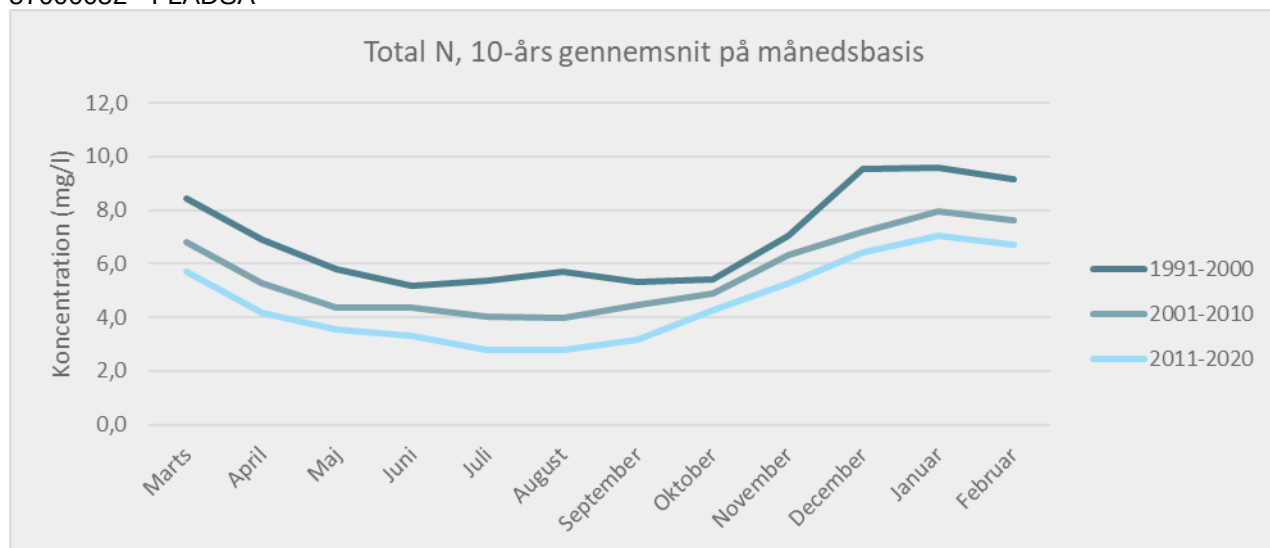
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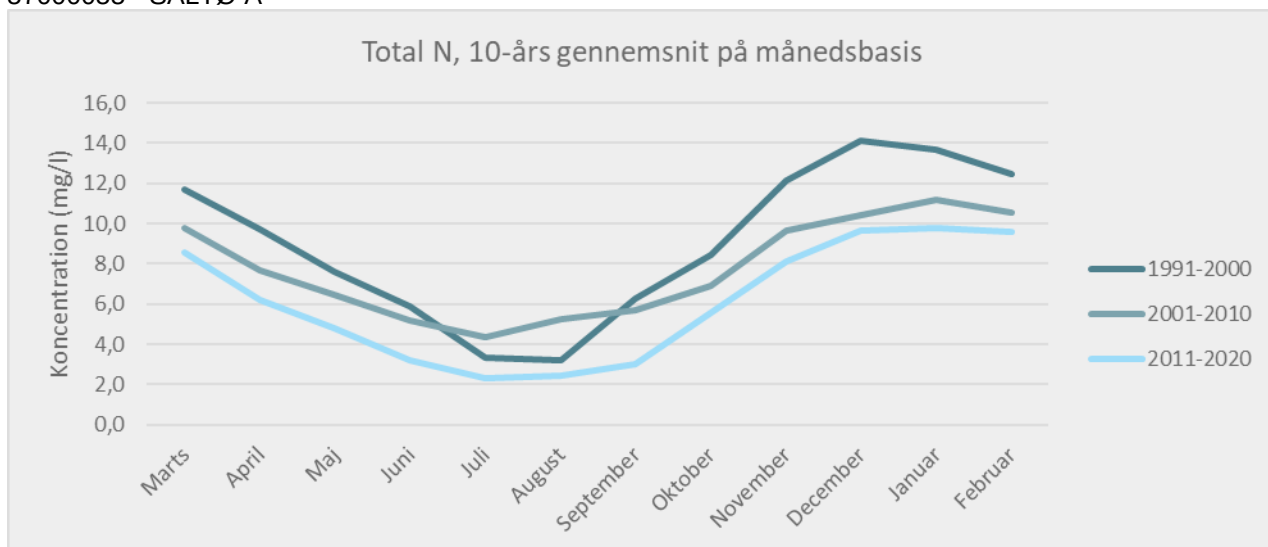
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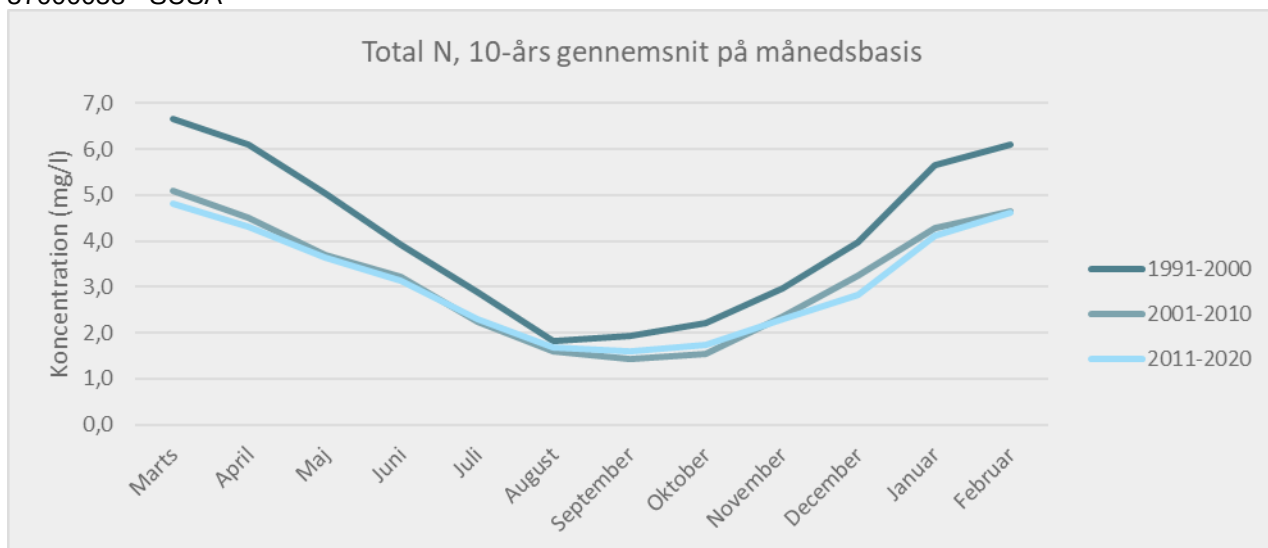
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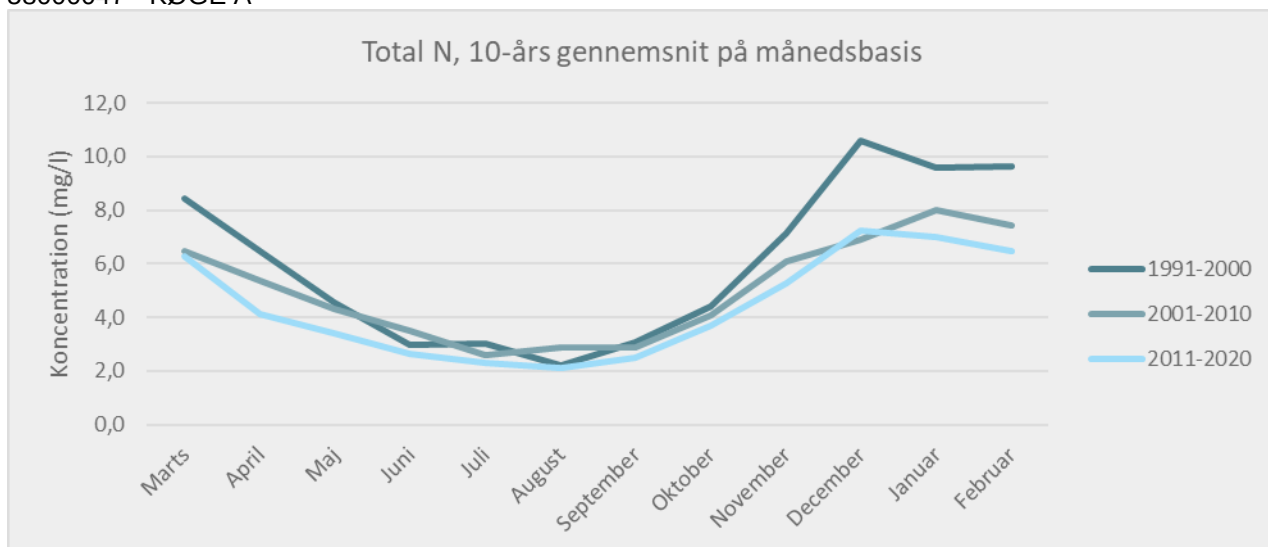
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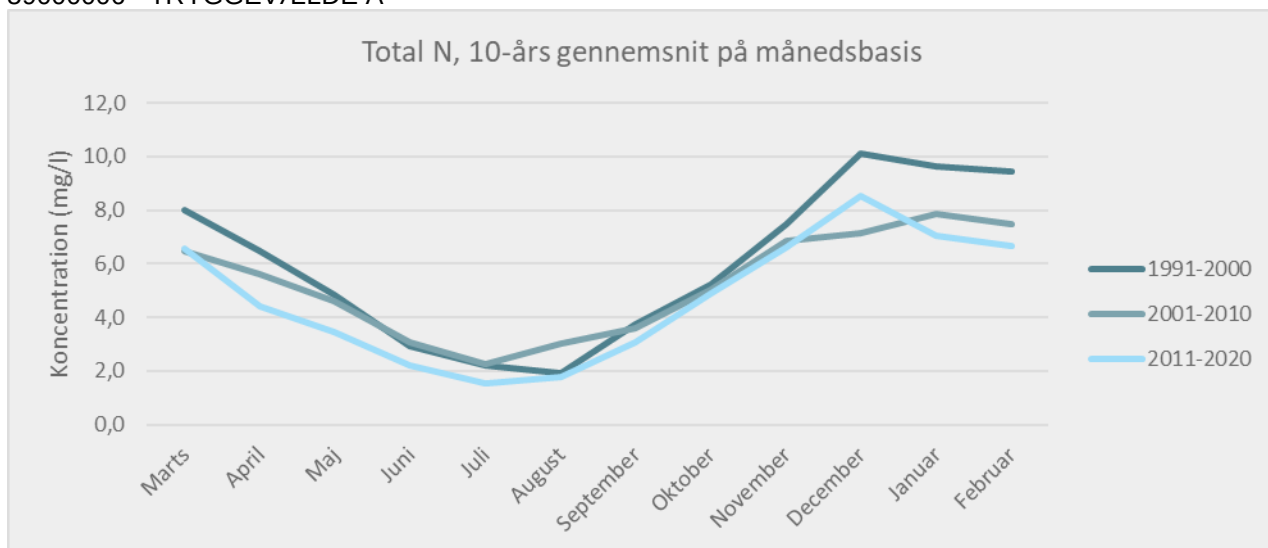
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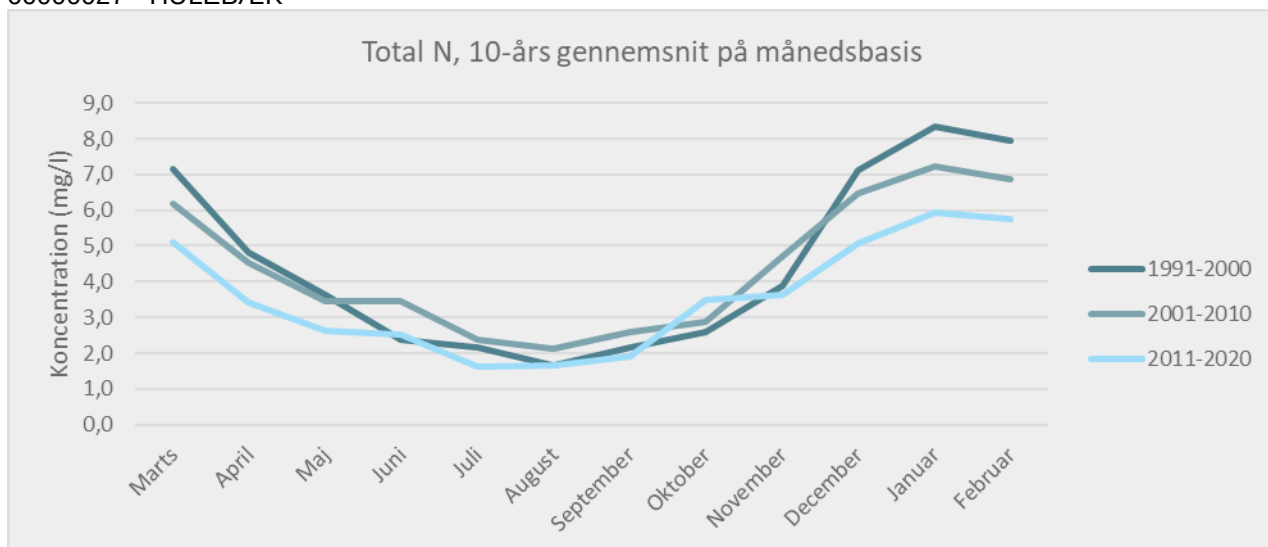
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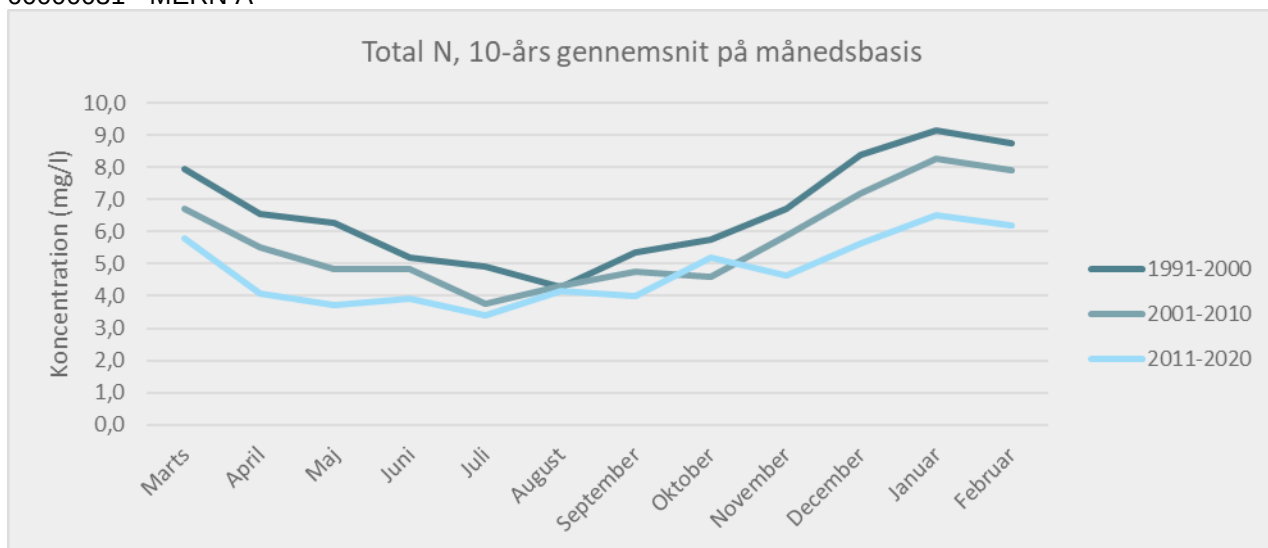
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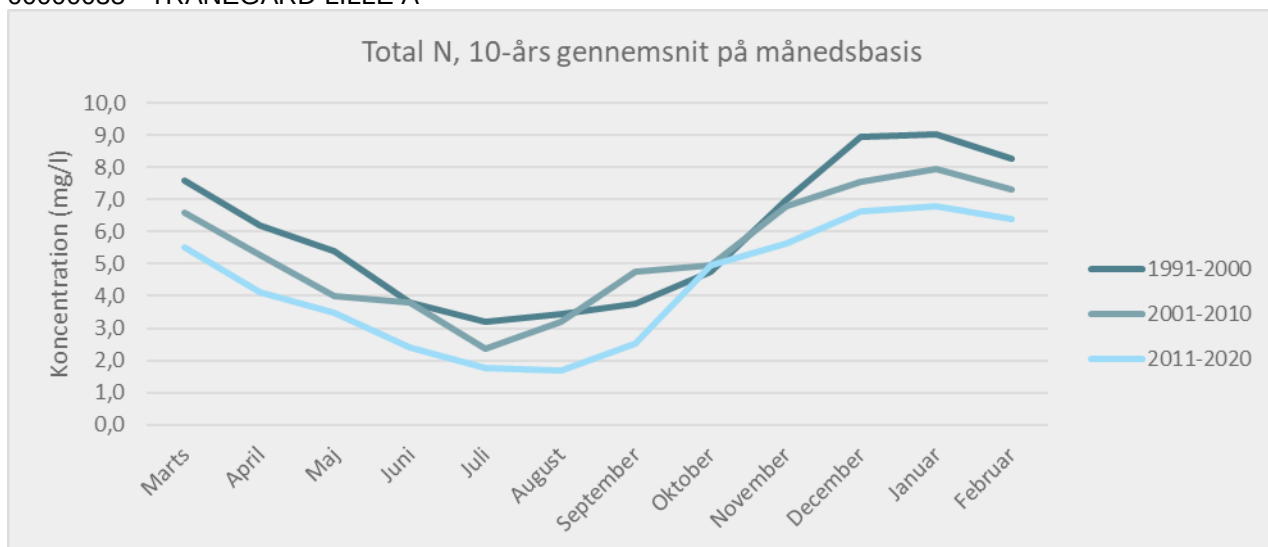
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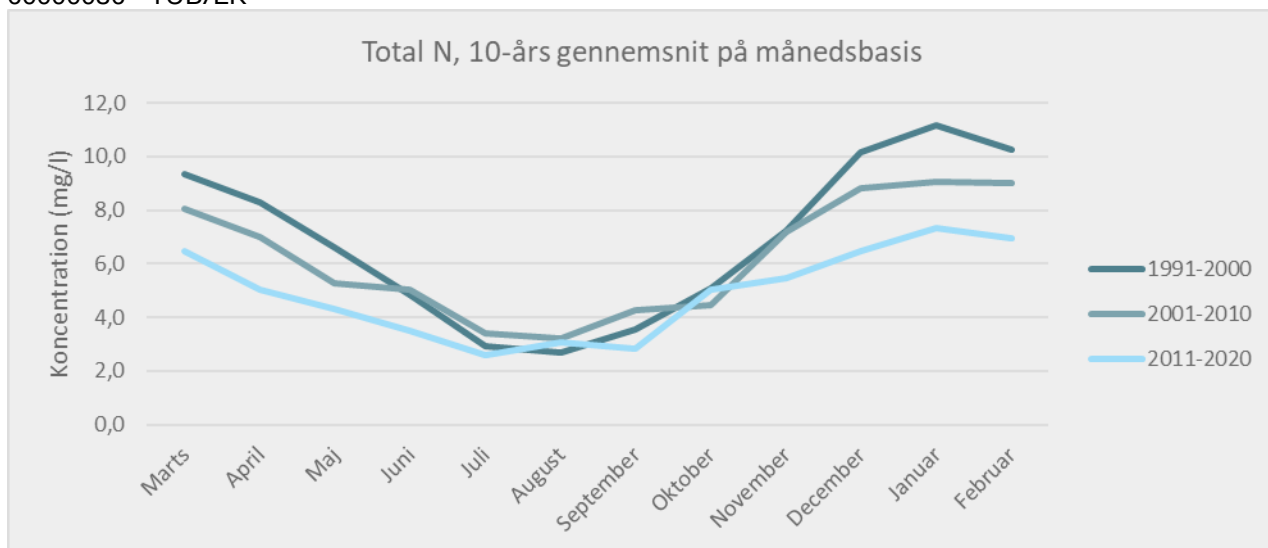
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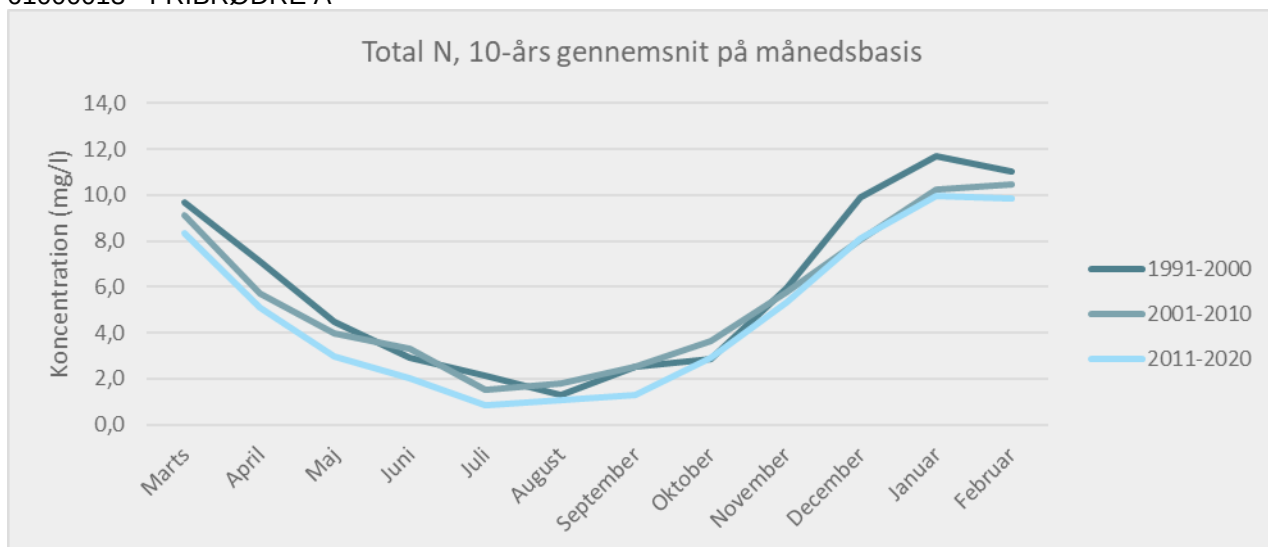
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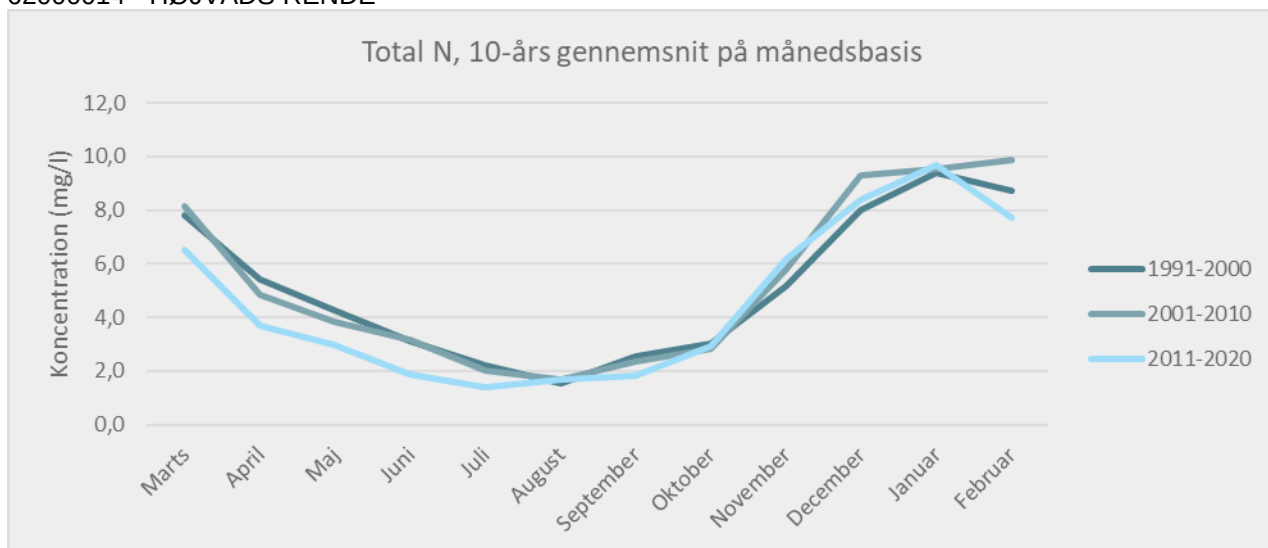
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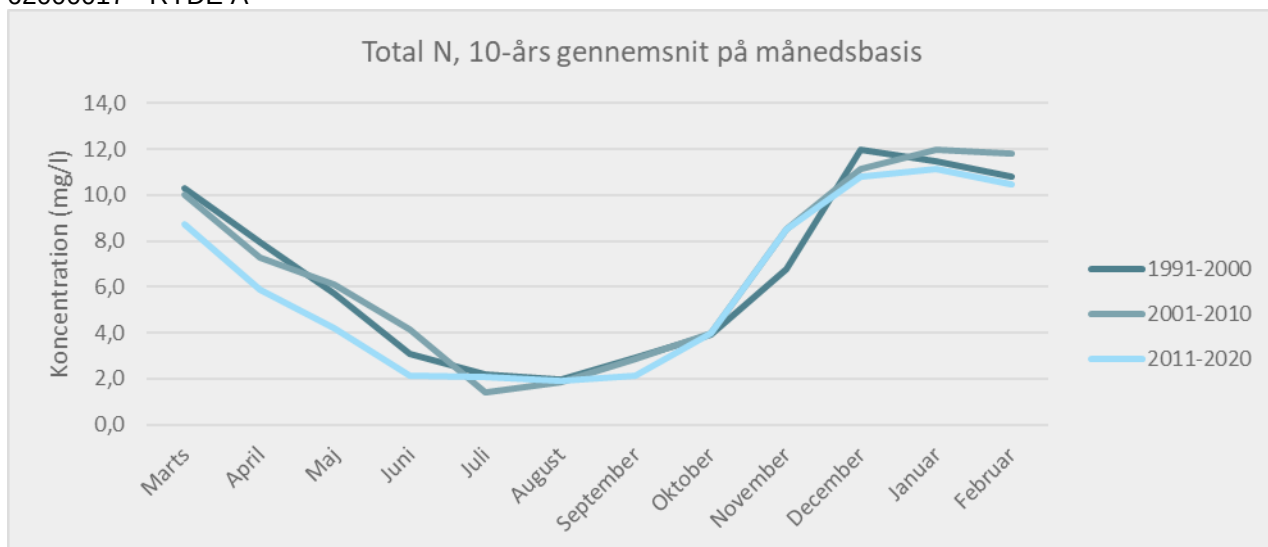
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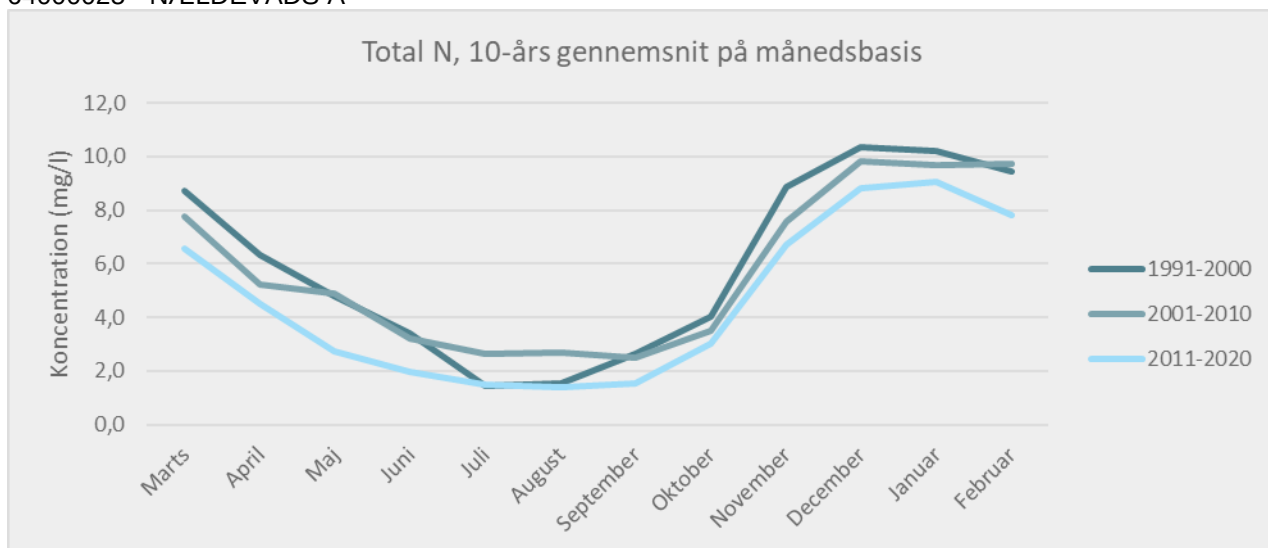
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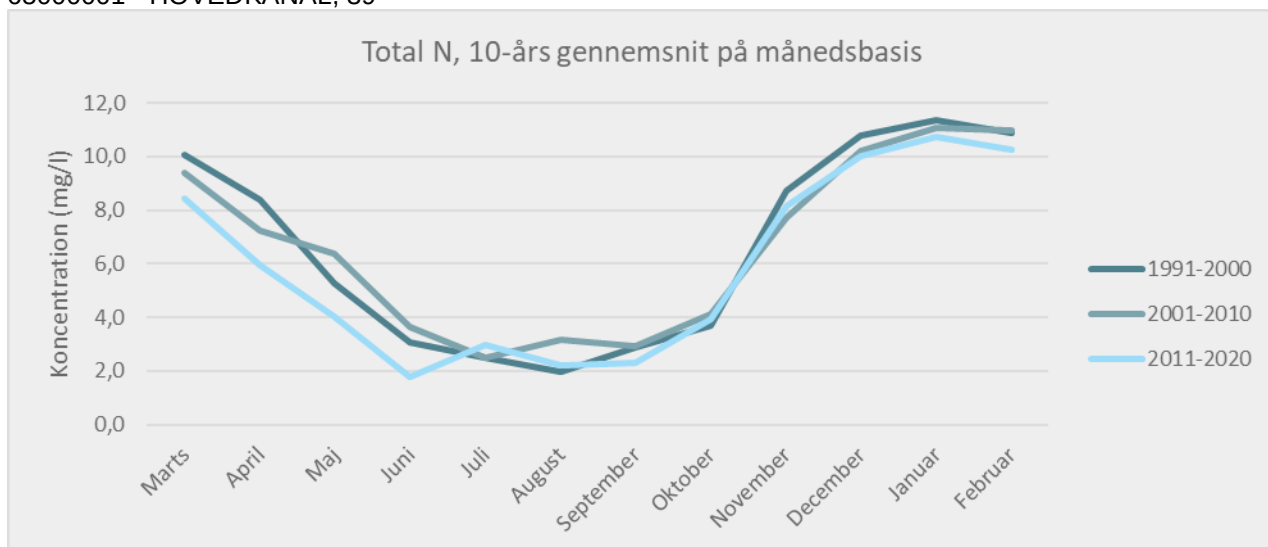


62000017 - RYDE Å

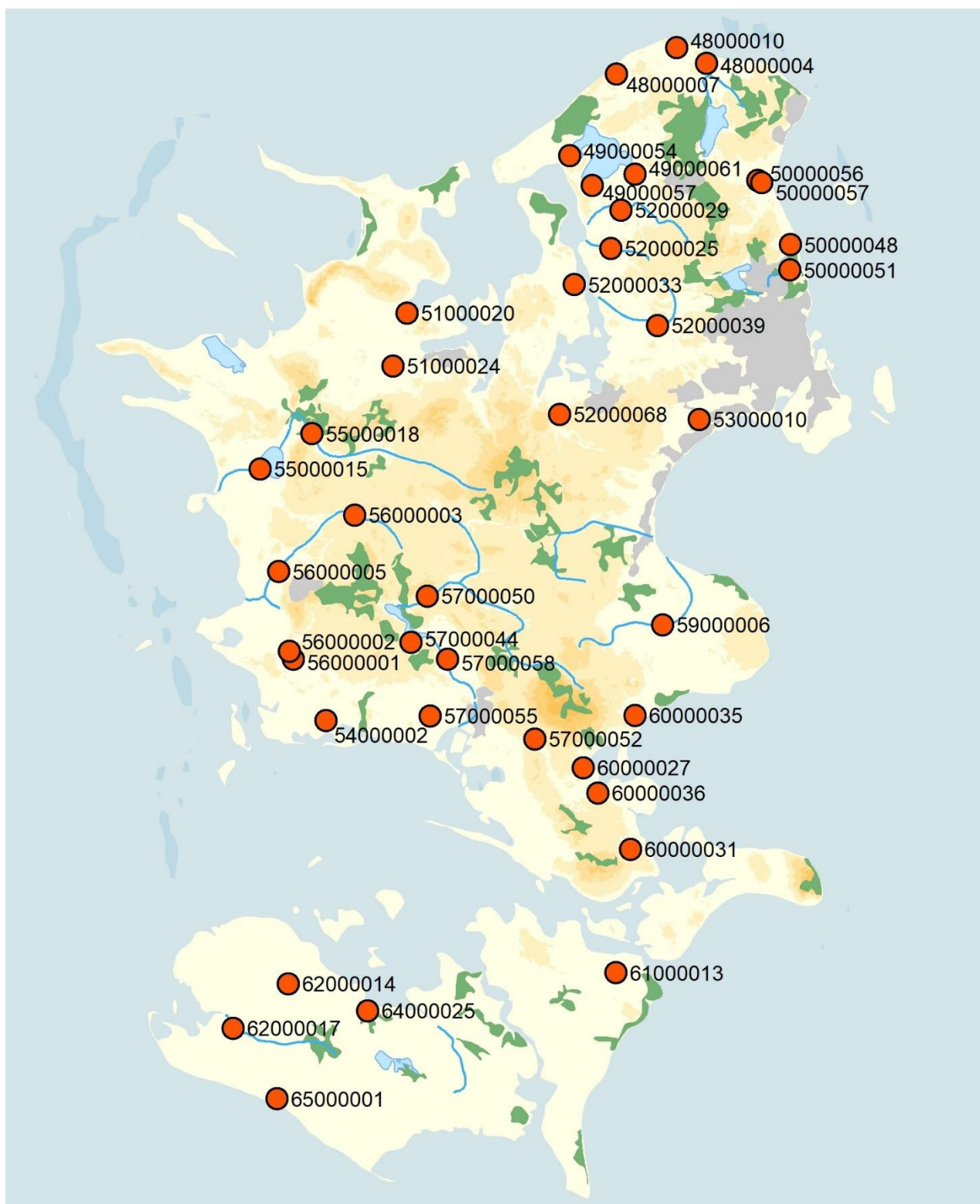


64000025 - NÆLDEVADS Å



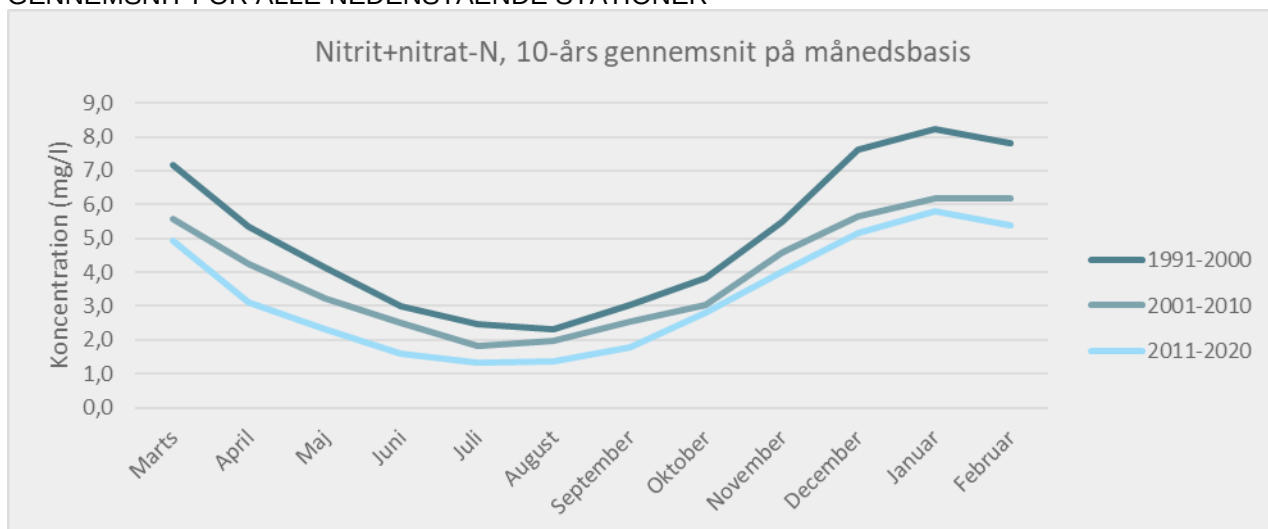


1.2 Nitrit+nitrat-N

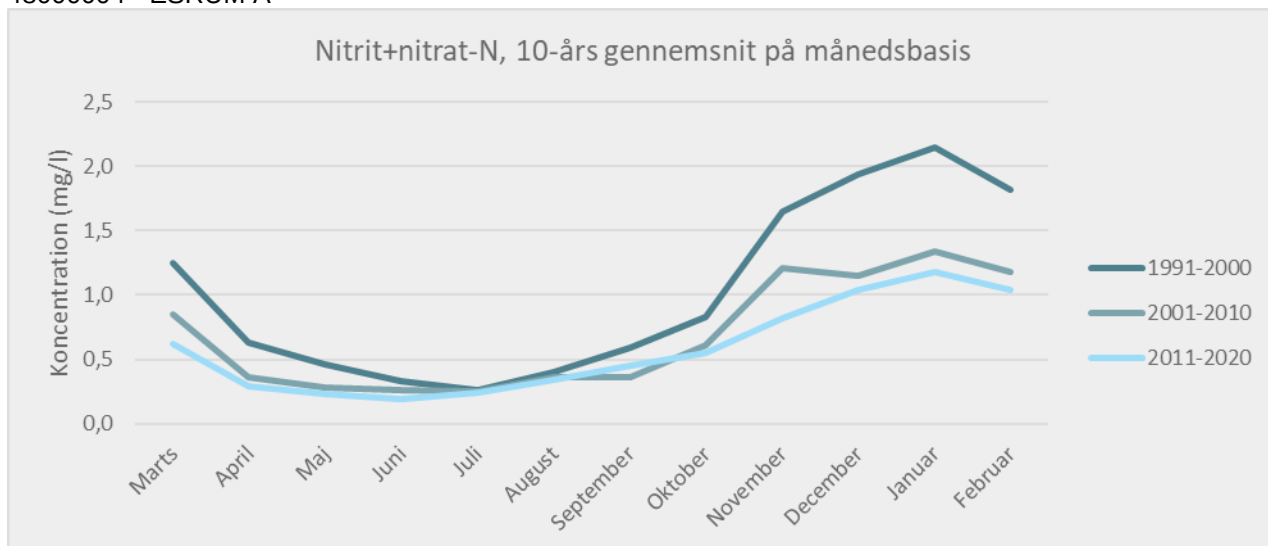


Geografisk placering af de 40 nedenstående målestationer udvalgt for nitrat+nitrat-N

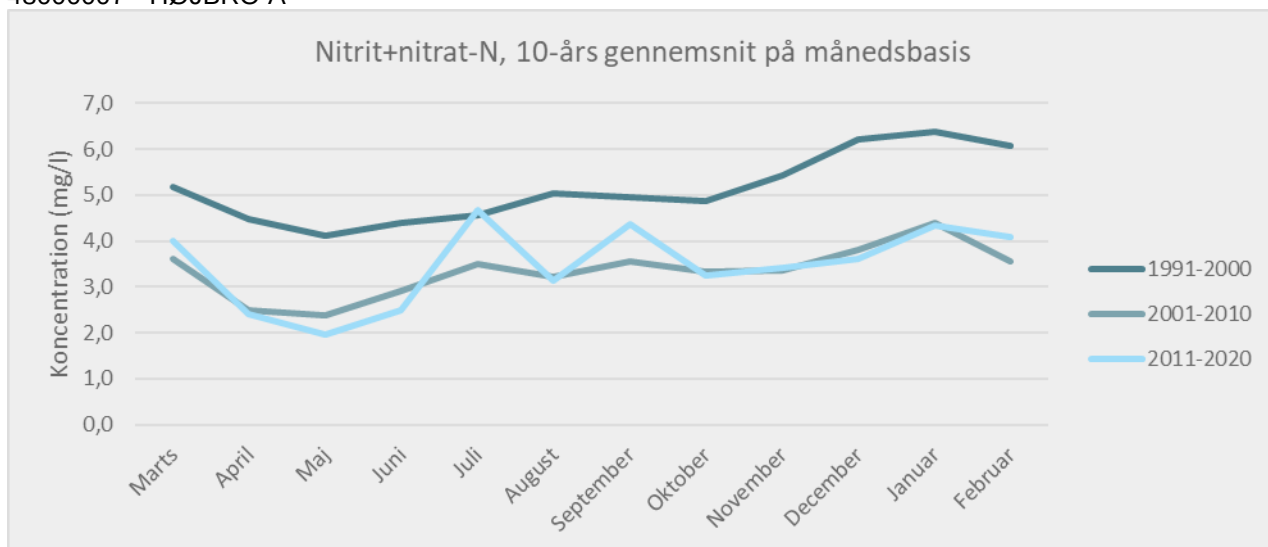
GENNEMSIT FOR ALLE NEDENSTÅENDE STATIONER



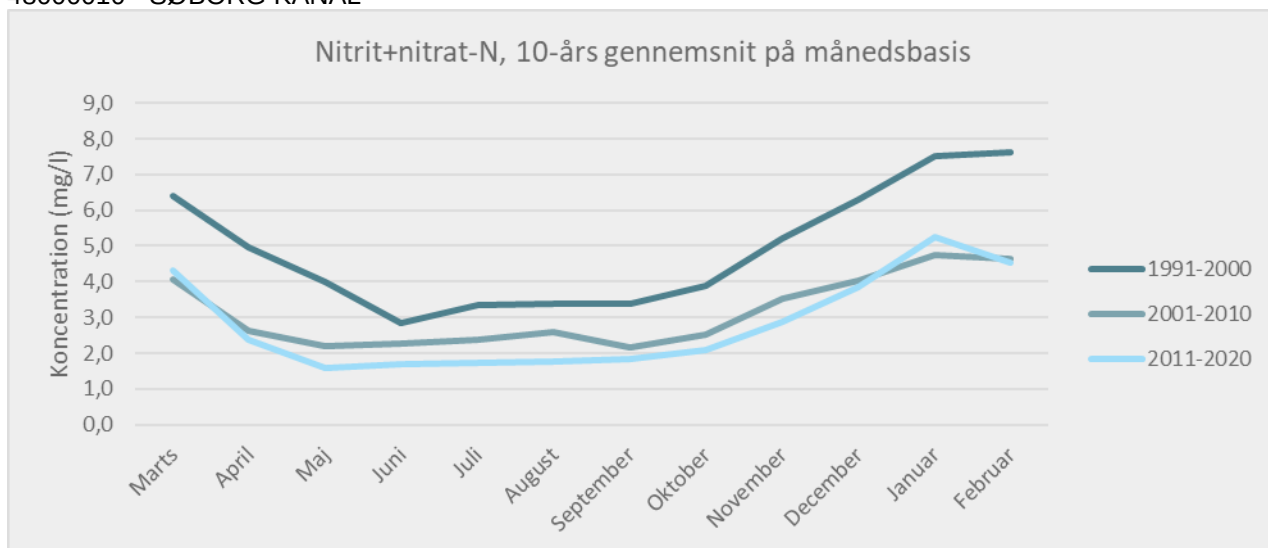
48000004 - ESRUM Å



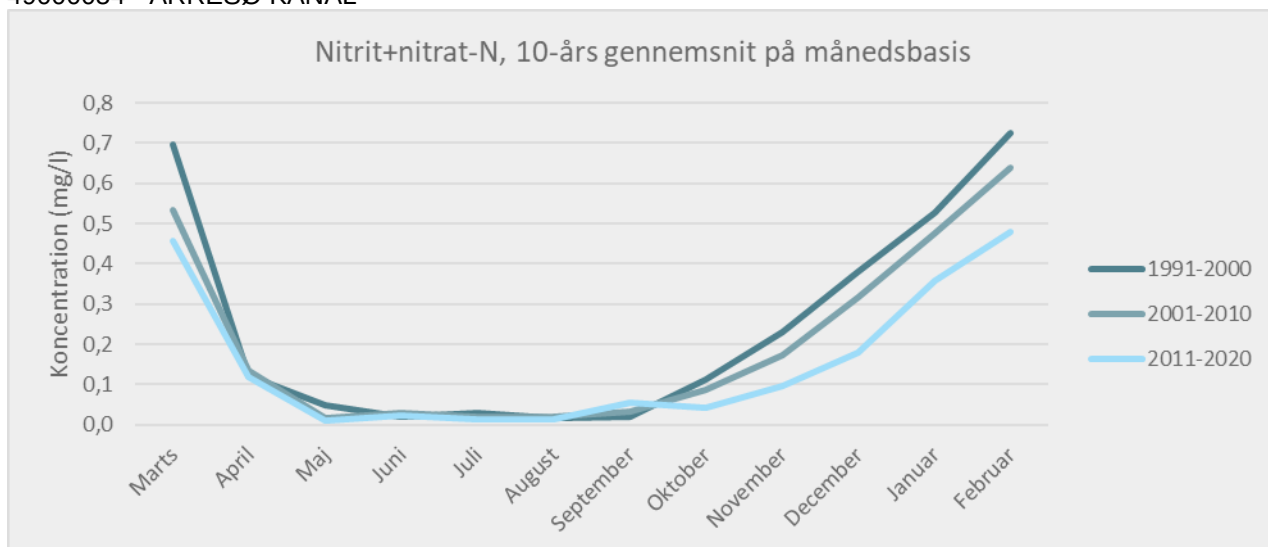
48000007 - HØJBRO Å



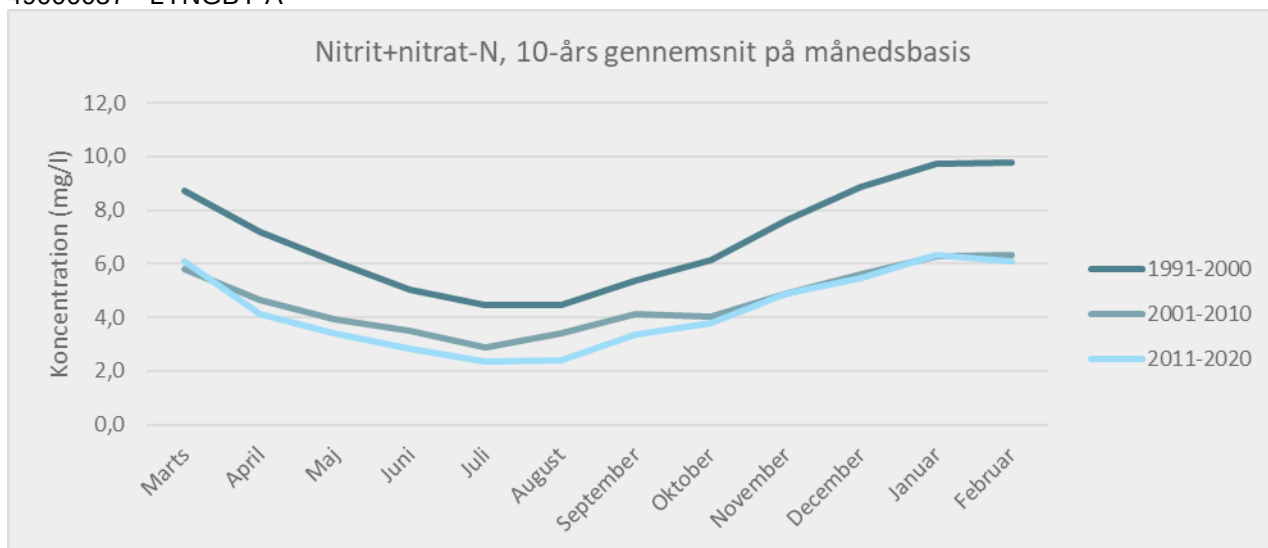
48000010 - SØBORG KANAL



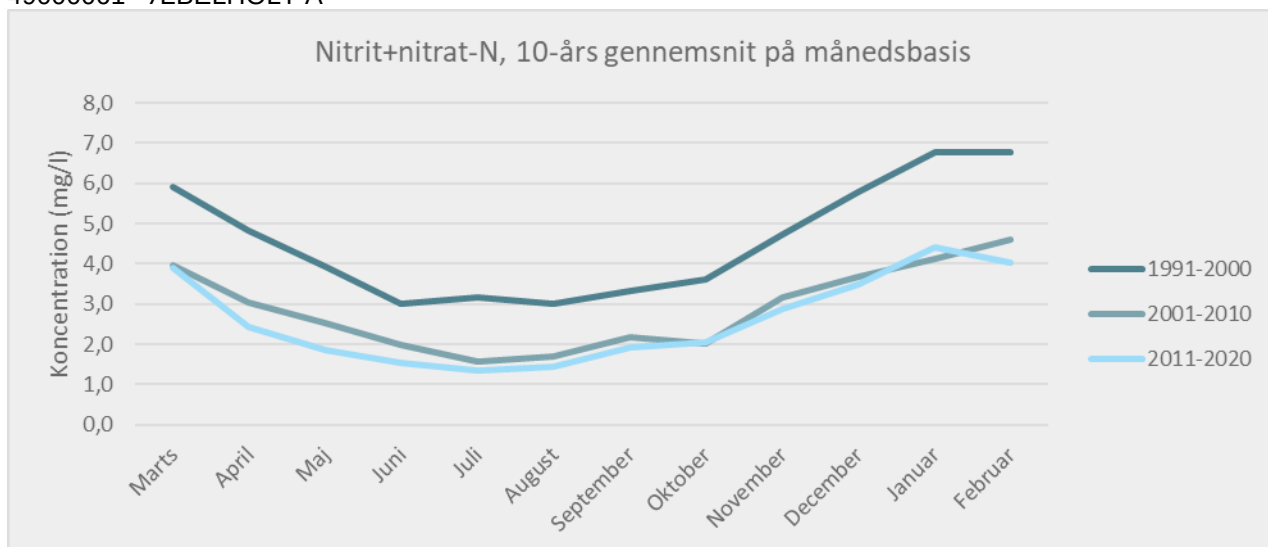
49000054 - ARRESØ KANAL



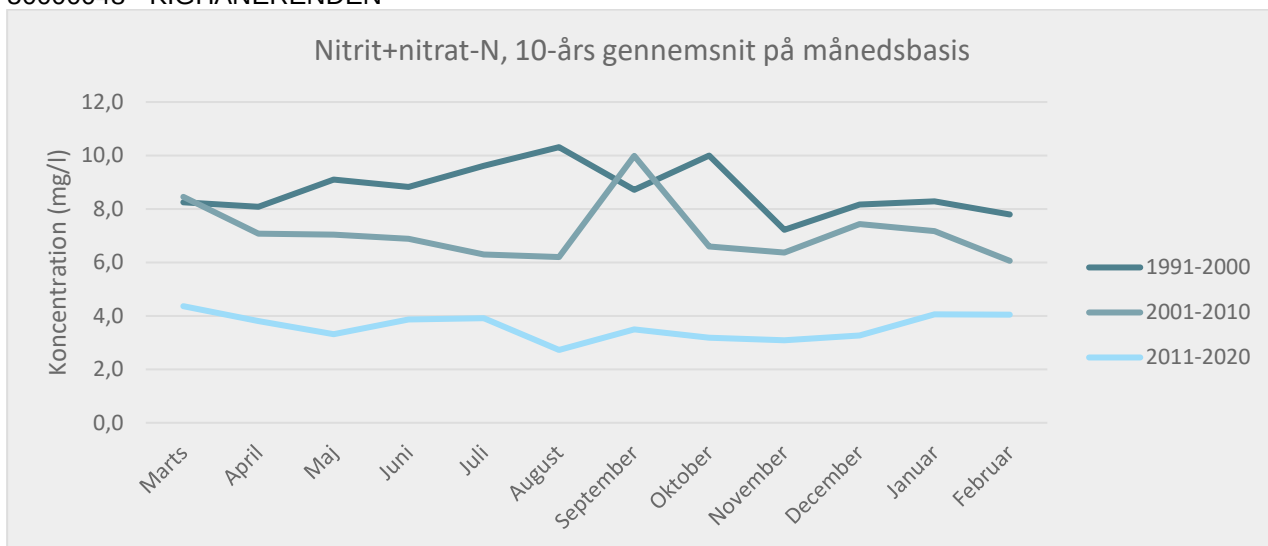
49000057 - LYNGBY Å



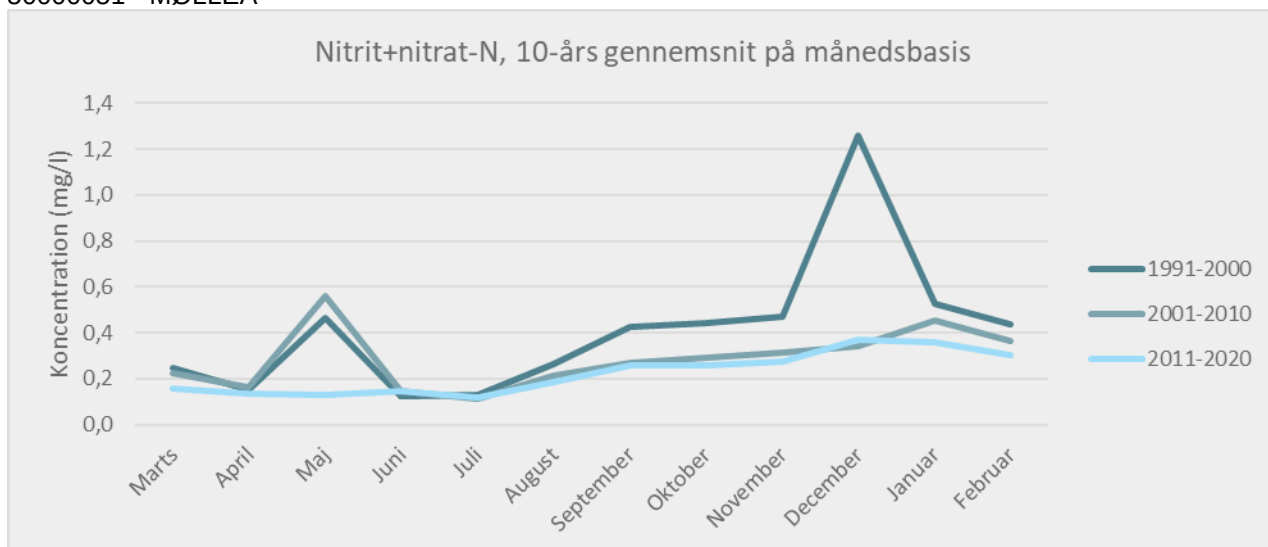
49000061 - ÆBELHOLT Å



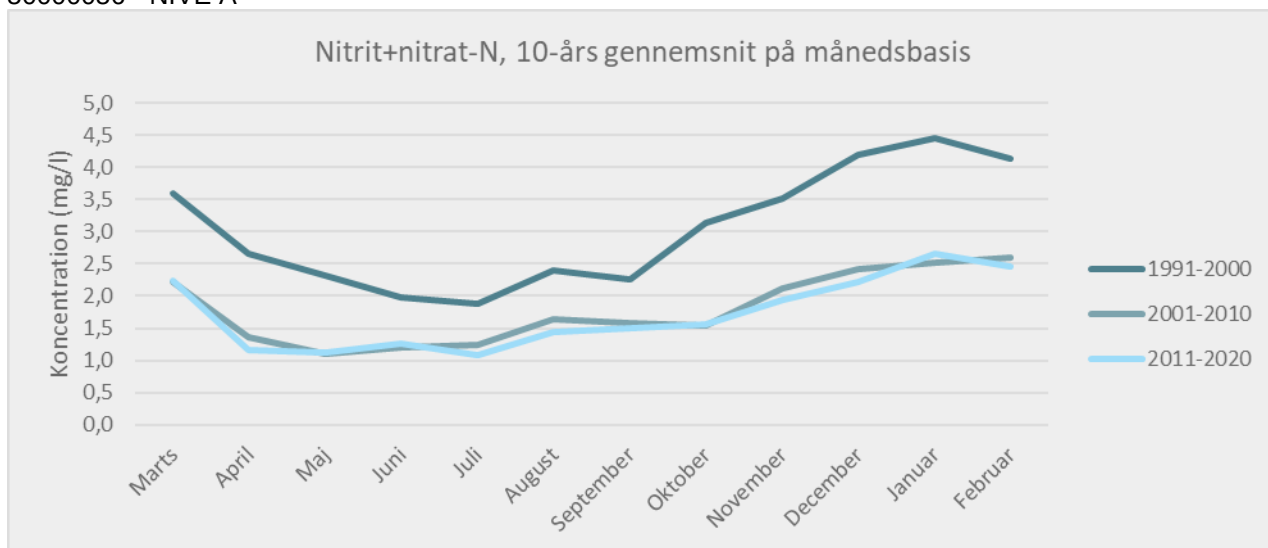
50000048 - KIGHANERENDEN



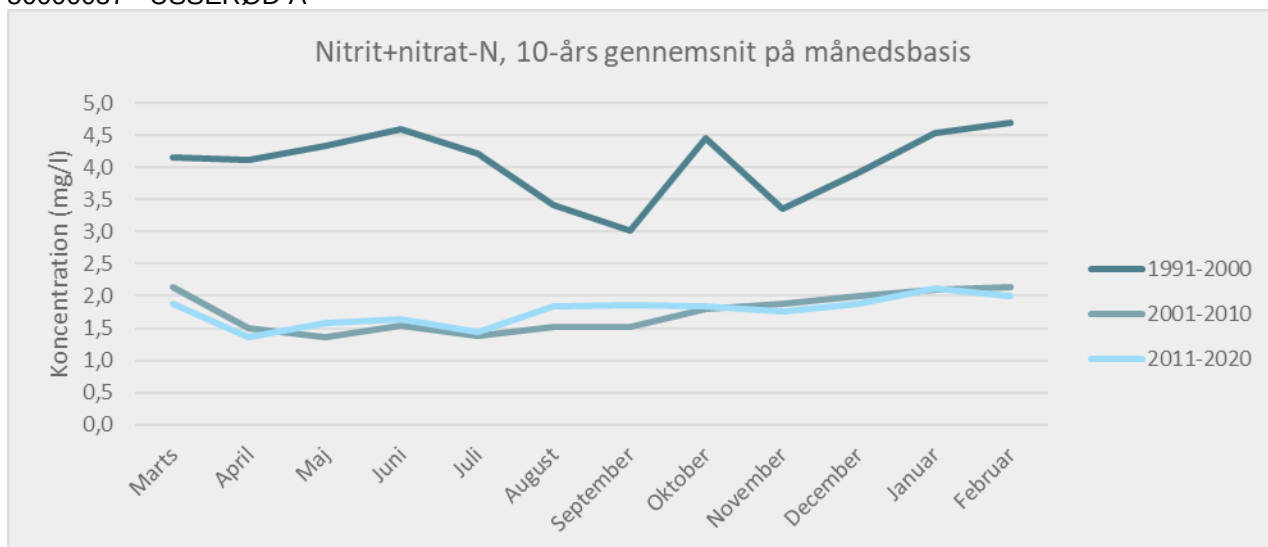
50000051 - MØLLEÅ



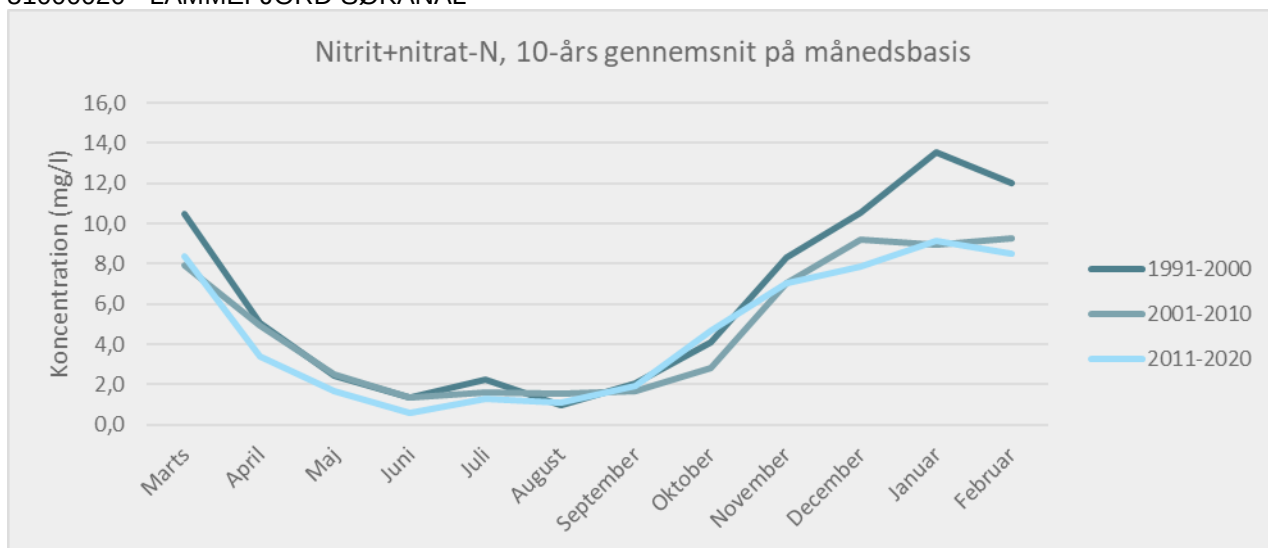
50000056 - NIVE Å



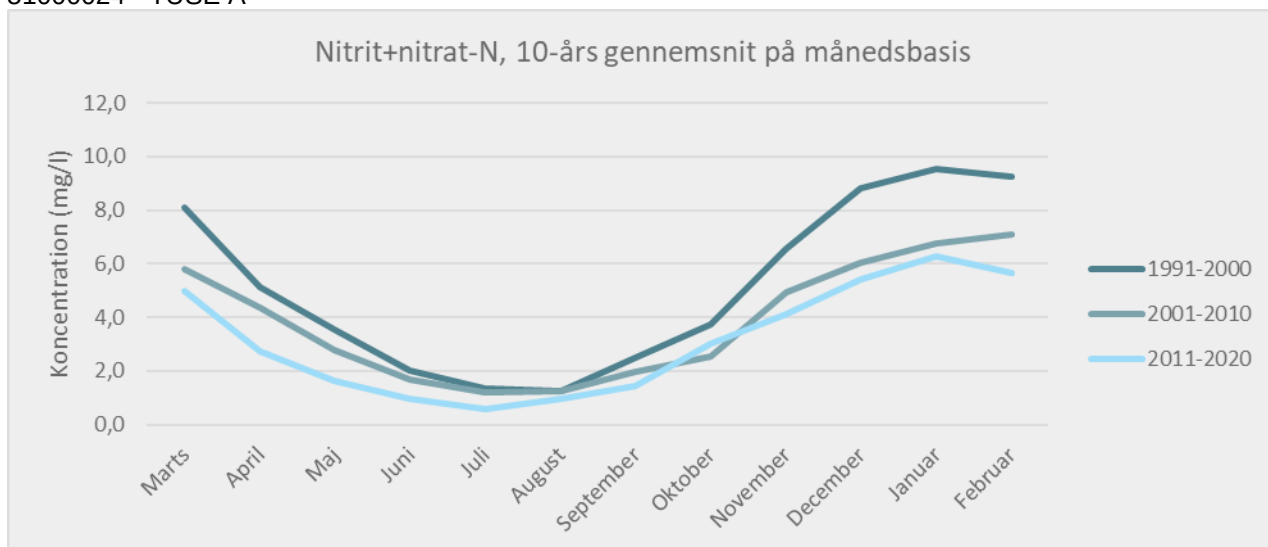
50000057 - USSERØD Å



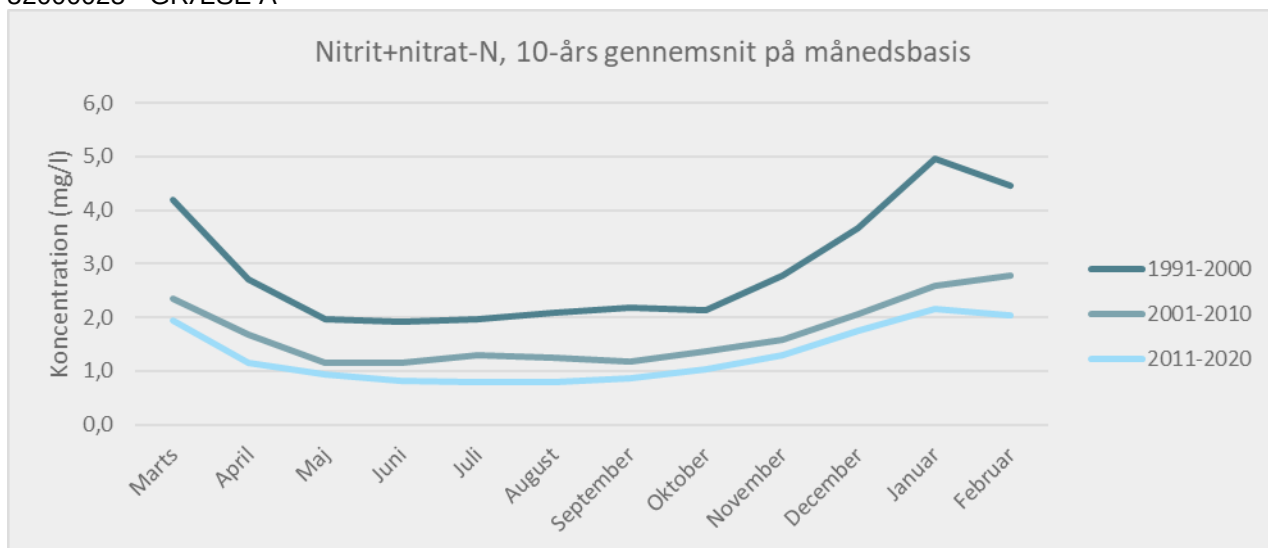
51000020 - LAMMEFJORD SØKANAL



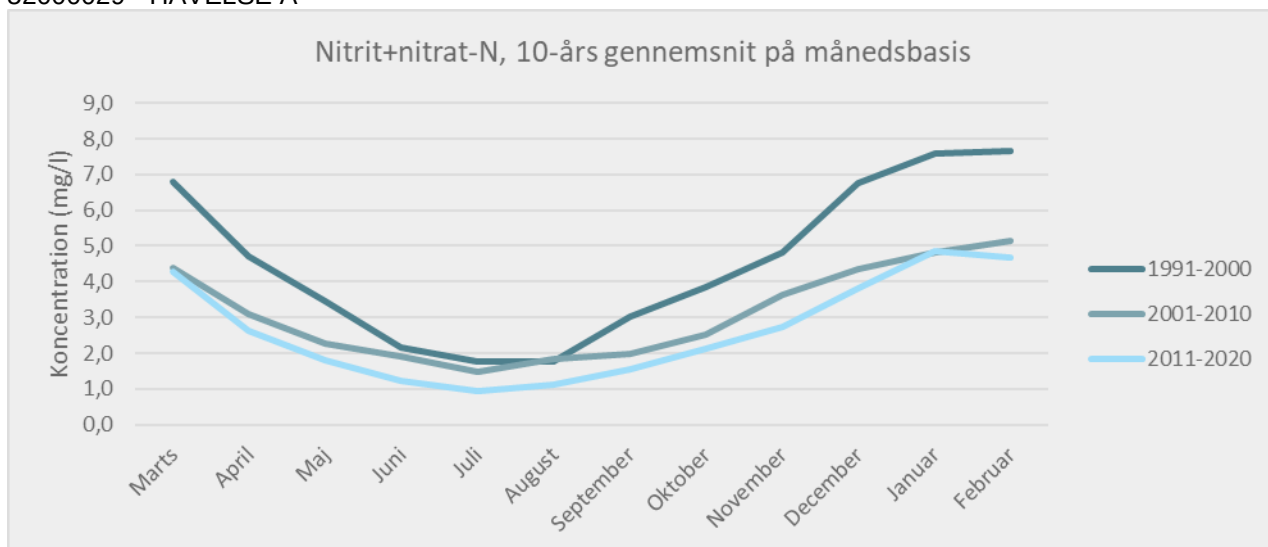
51000024 - TUSE Å



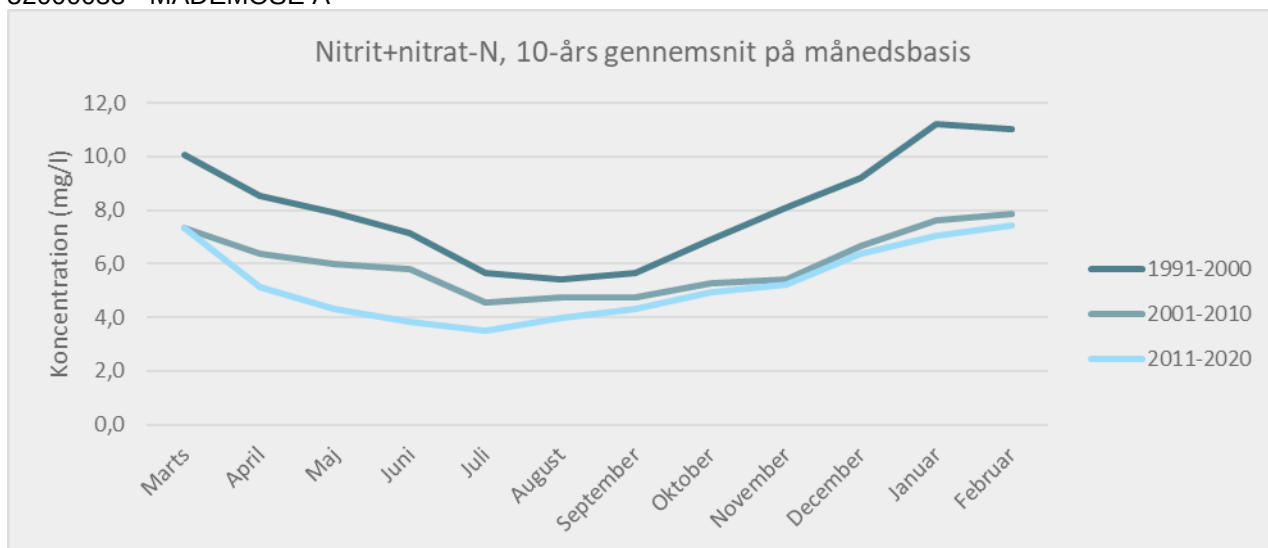
52000025 - GRÆSE Å



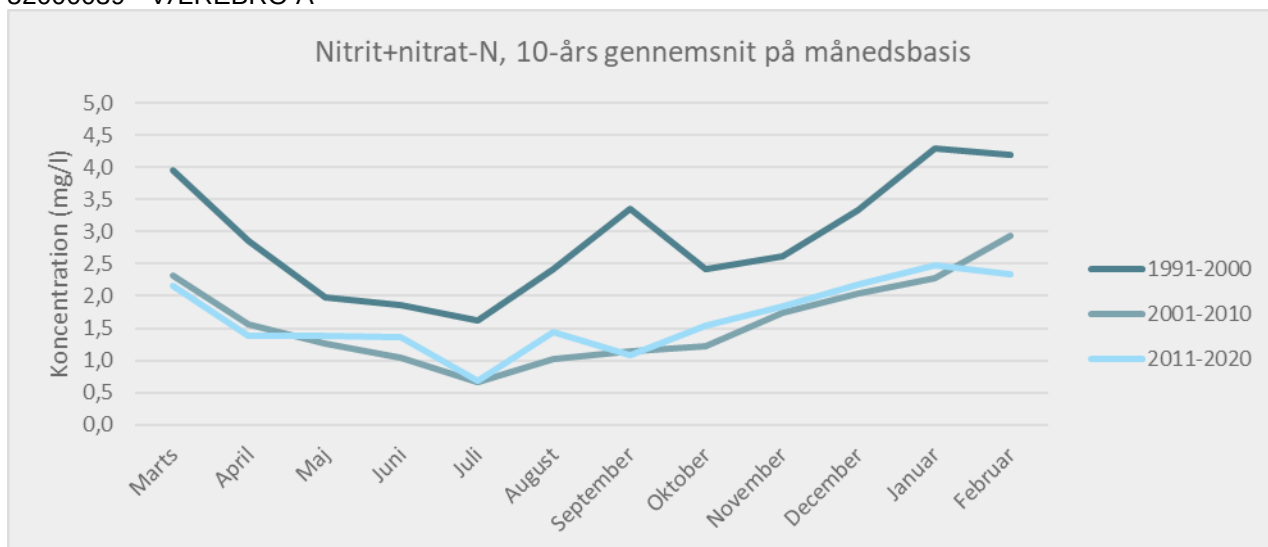
52000029 - HAVELSE Å



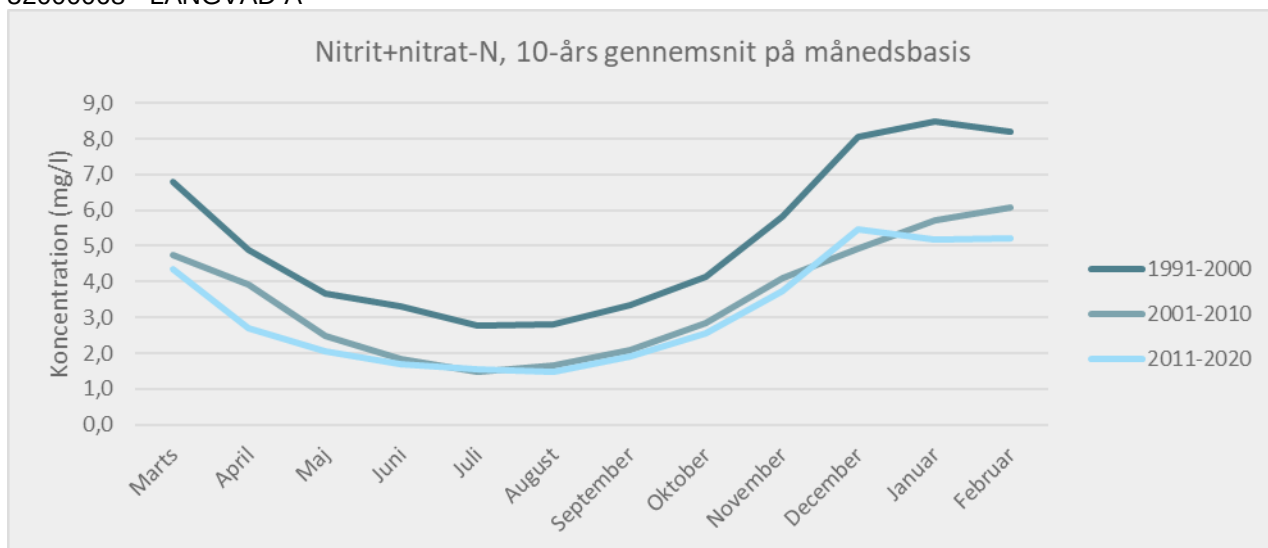
52000033 - MADEMOSE Å



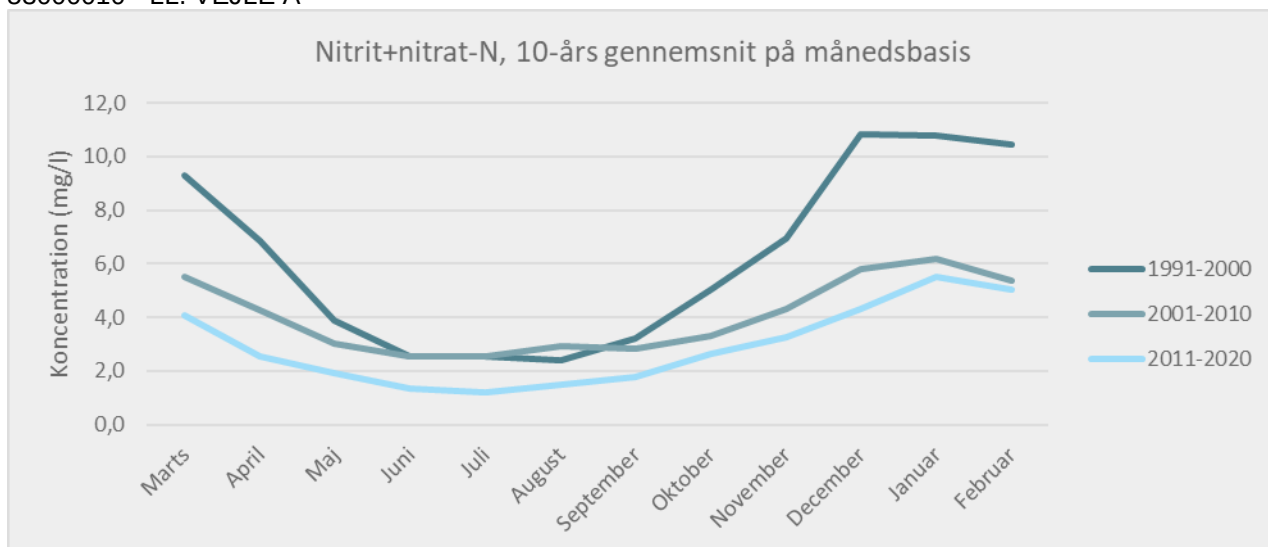
52000039 - VÆREBRO Å



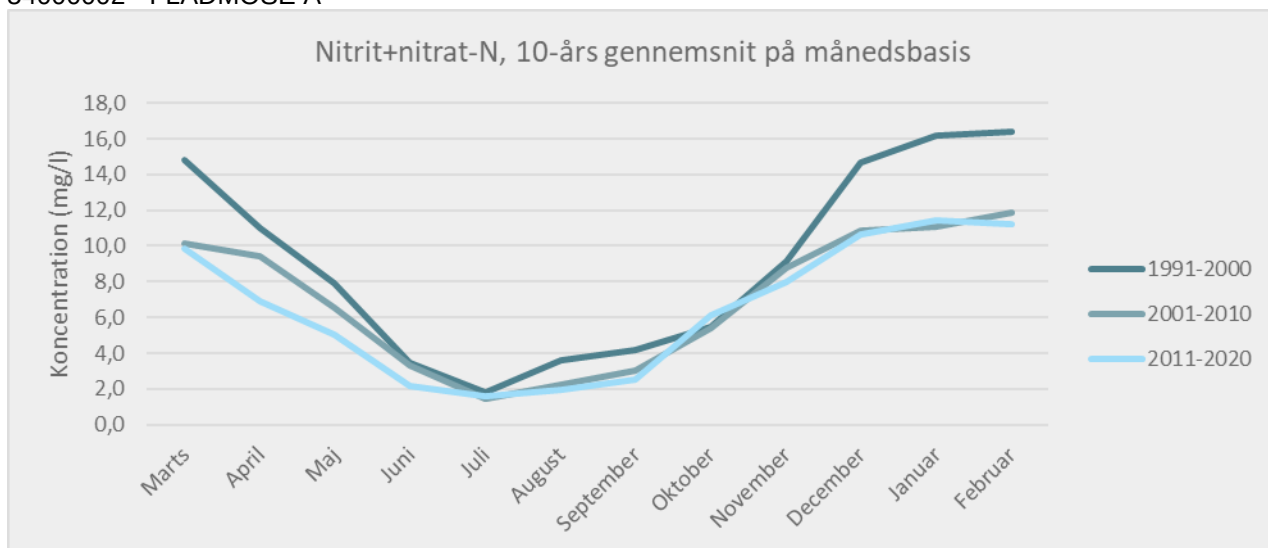
52000068 - LANGVAD Å



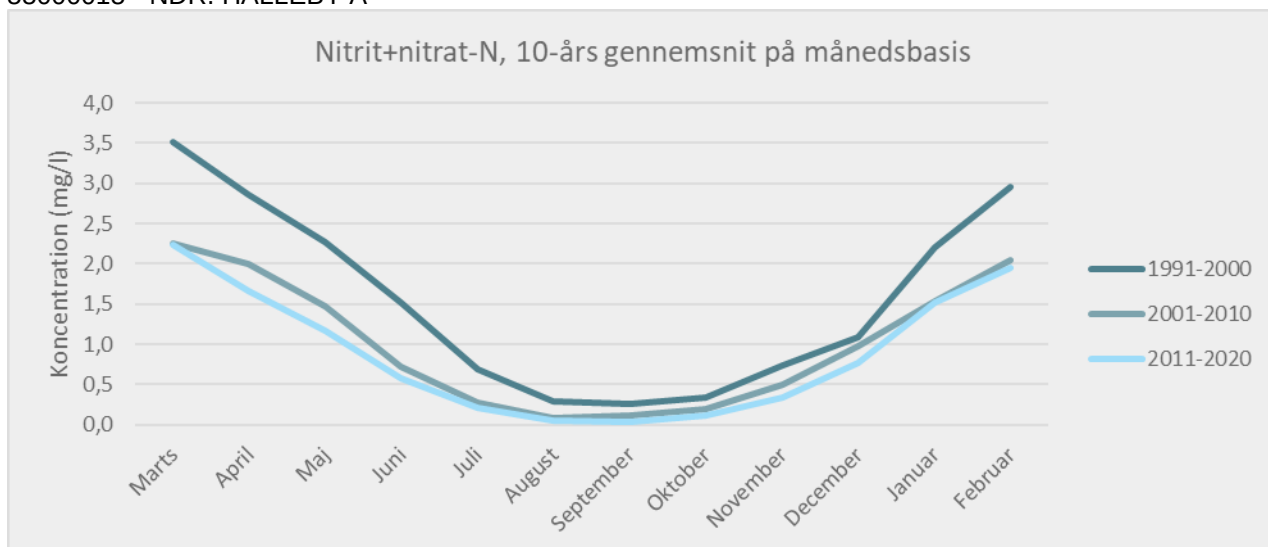
53000010 - LL. VEJLE Å



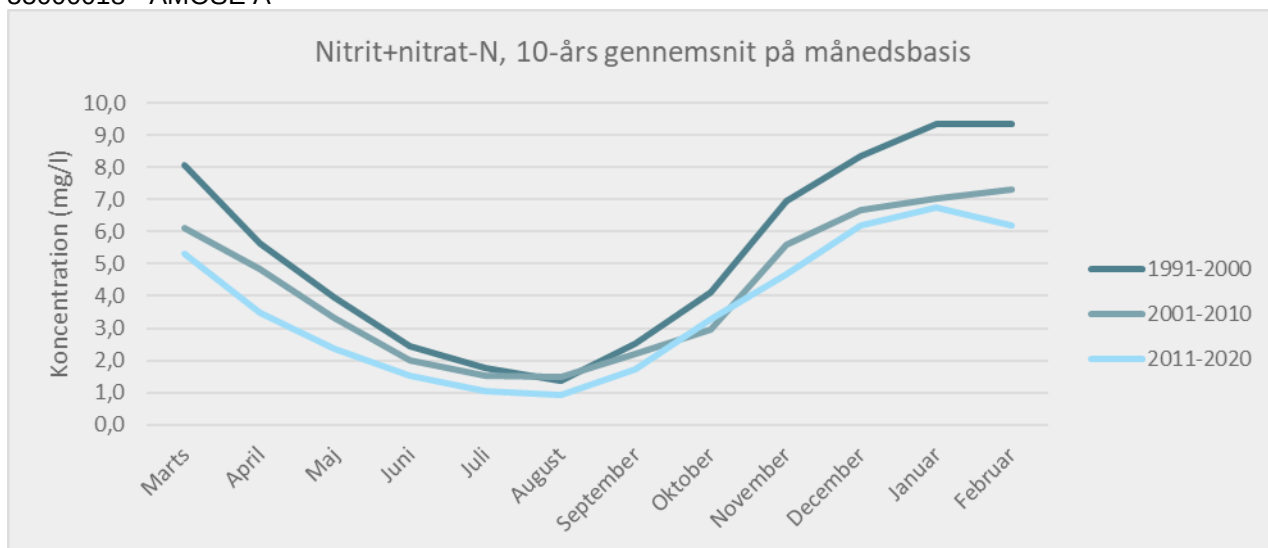
54000002 - FLADMOSE Å



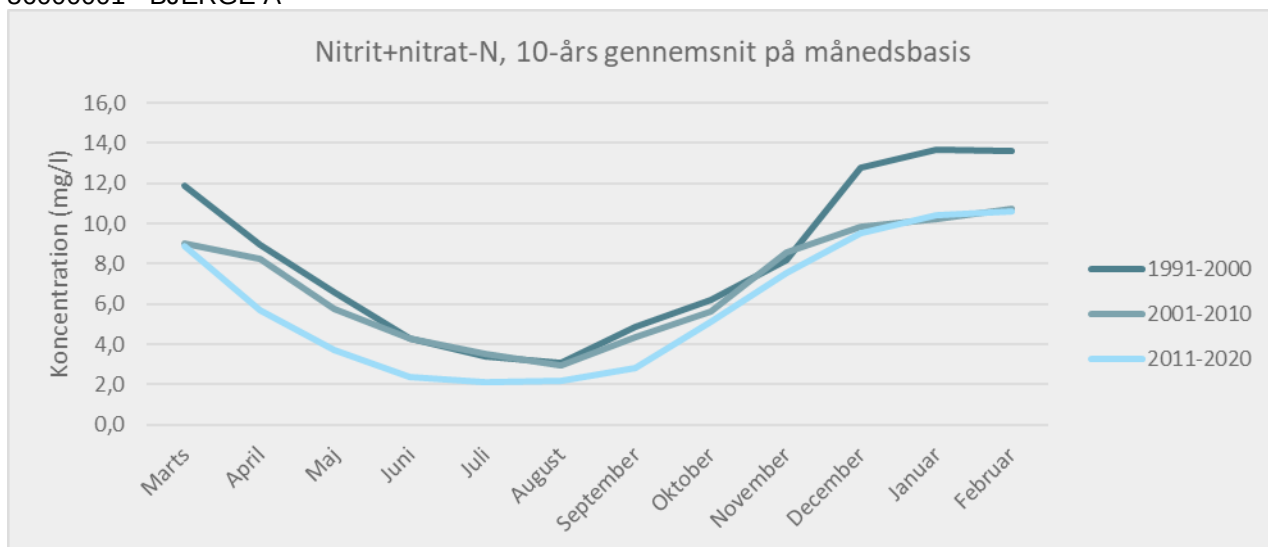
55000015 - NDR. HALLEBY Å



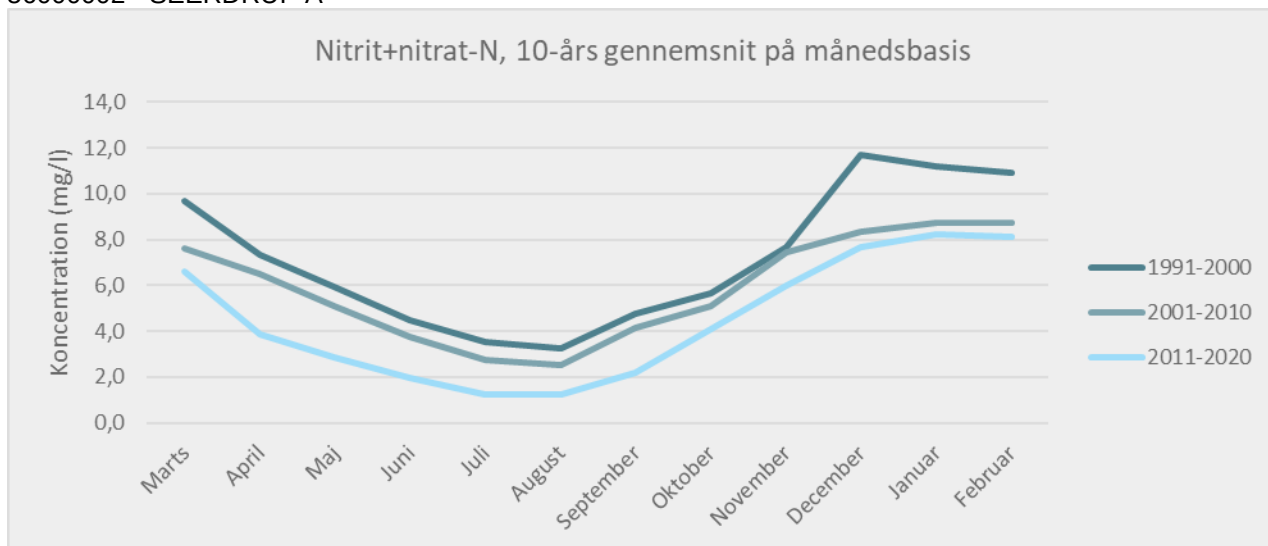
55000018 - ÅMOSE Å



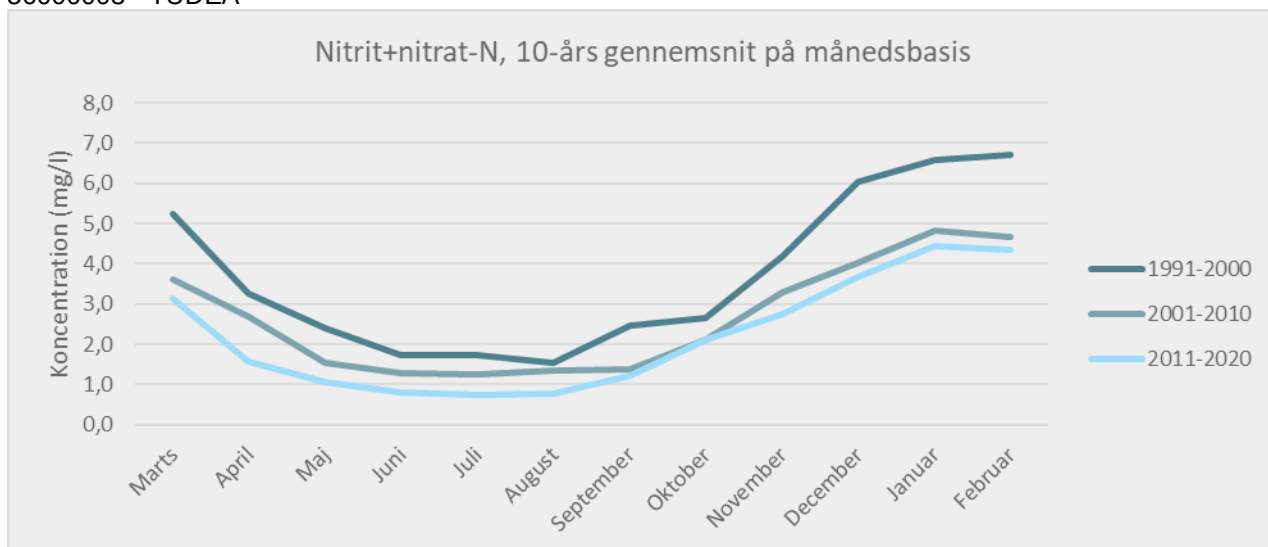
56000001 - BJERGE Å



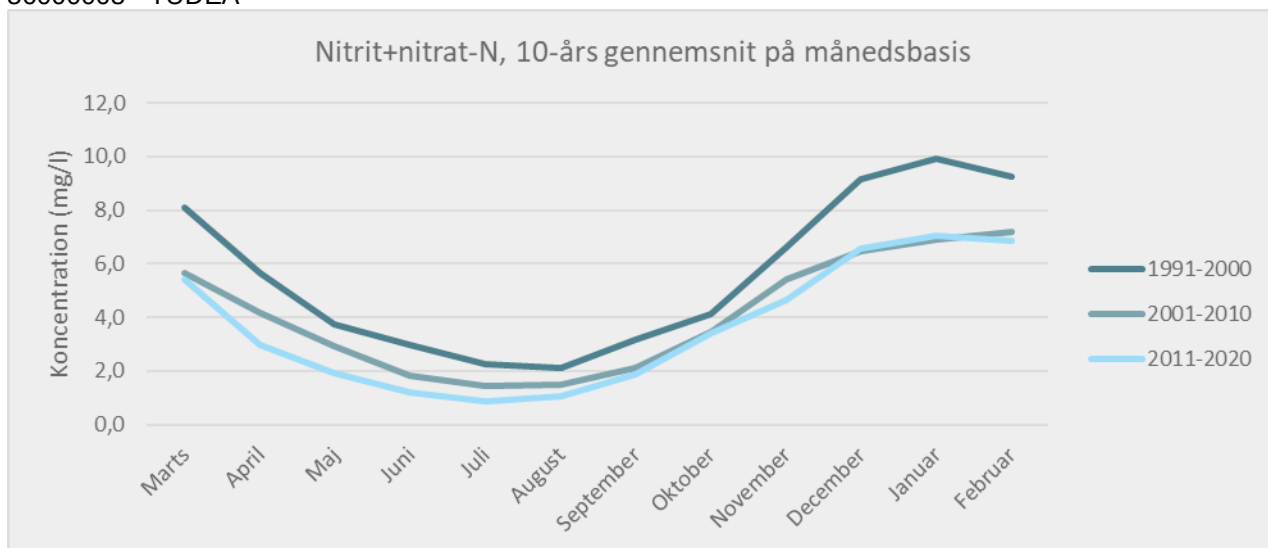
56000002 - SEERDRUP Å



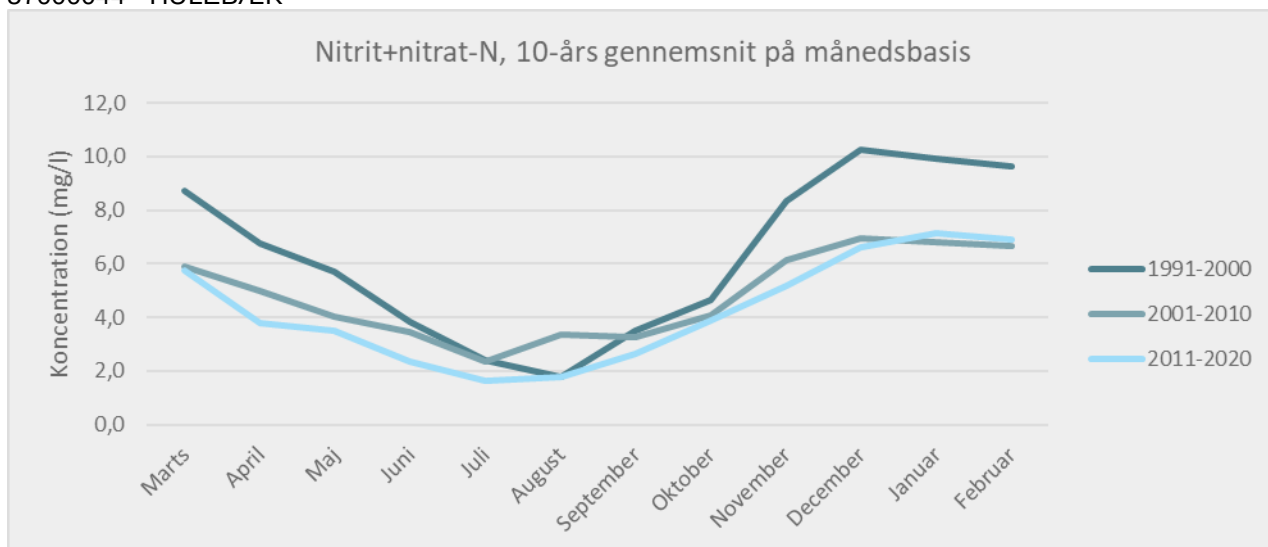
56000003 - TUDEÅ



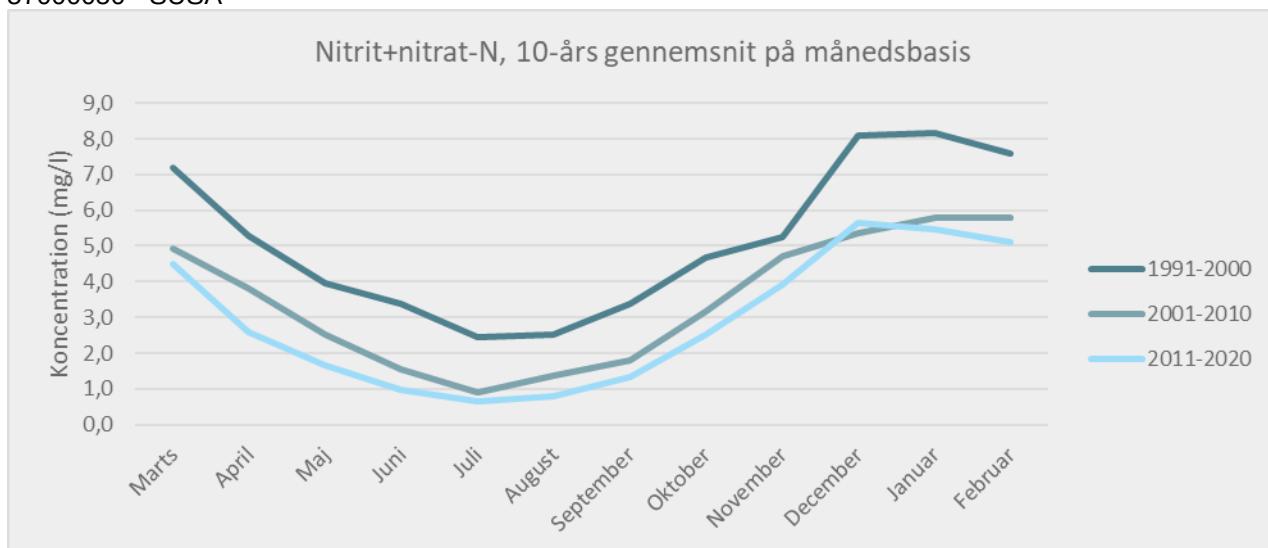
56000005 - TUDEÅ



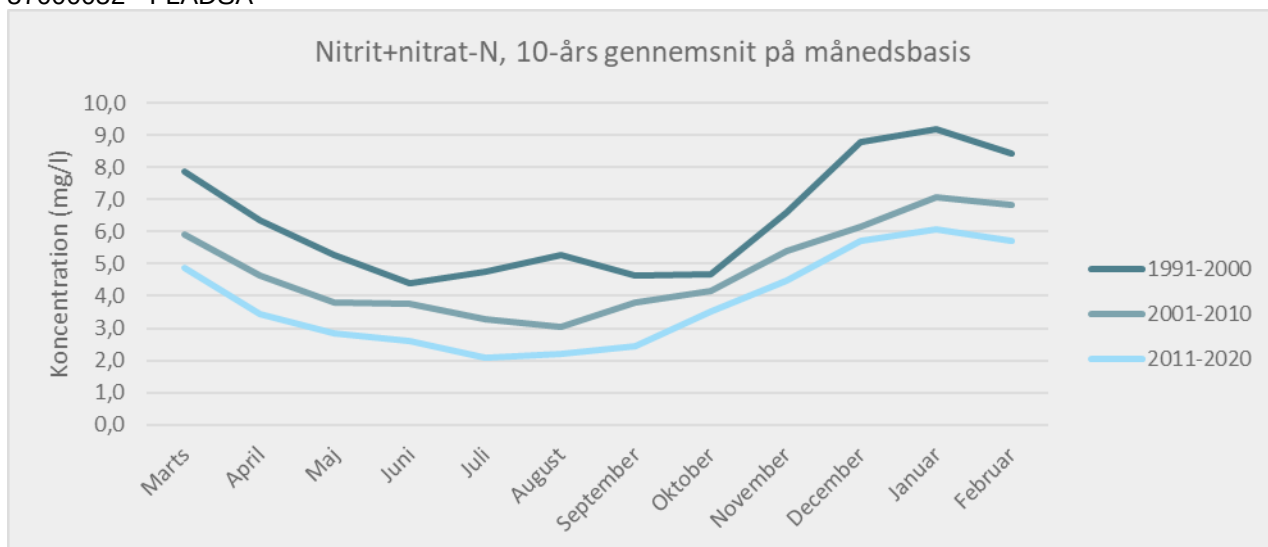
57000044 - HULEBÆK



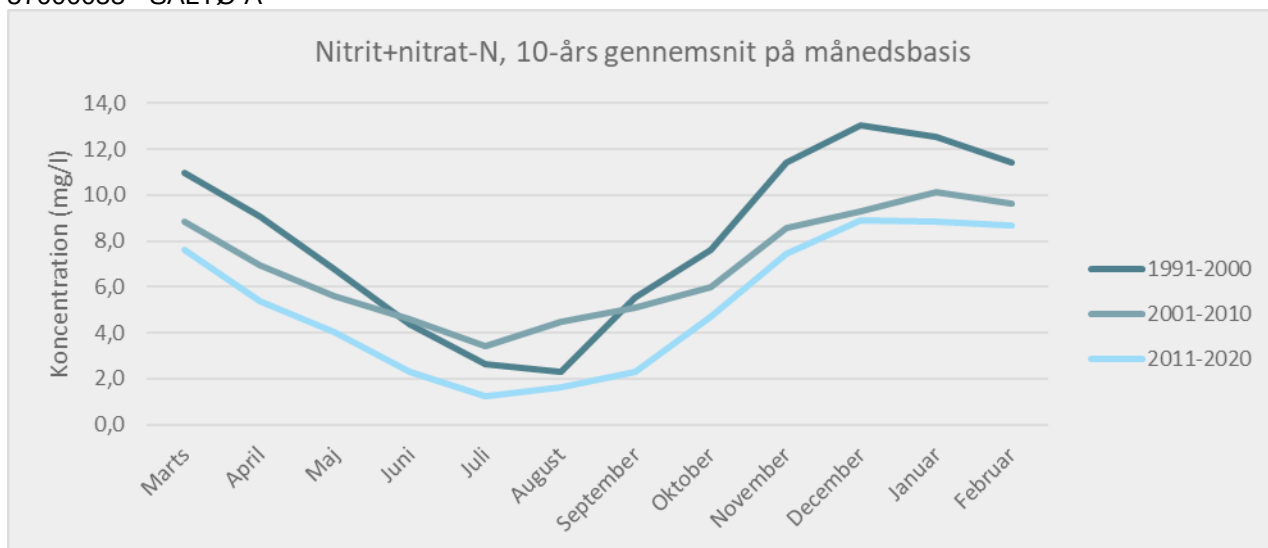
57000050 - SUSÅ



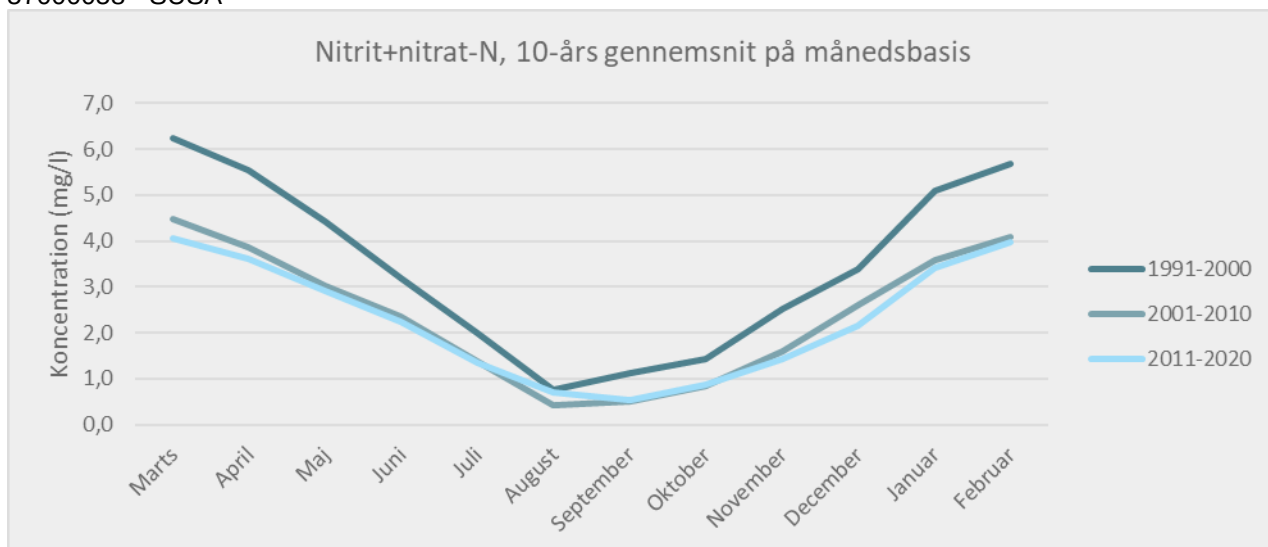
57000052 - FLADSÅ



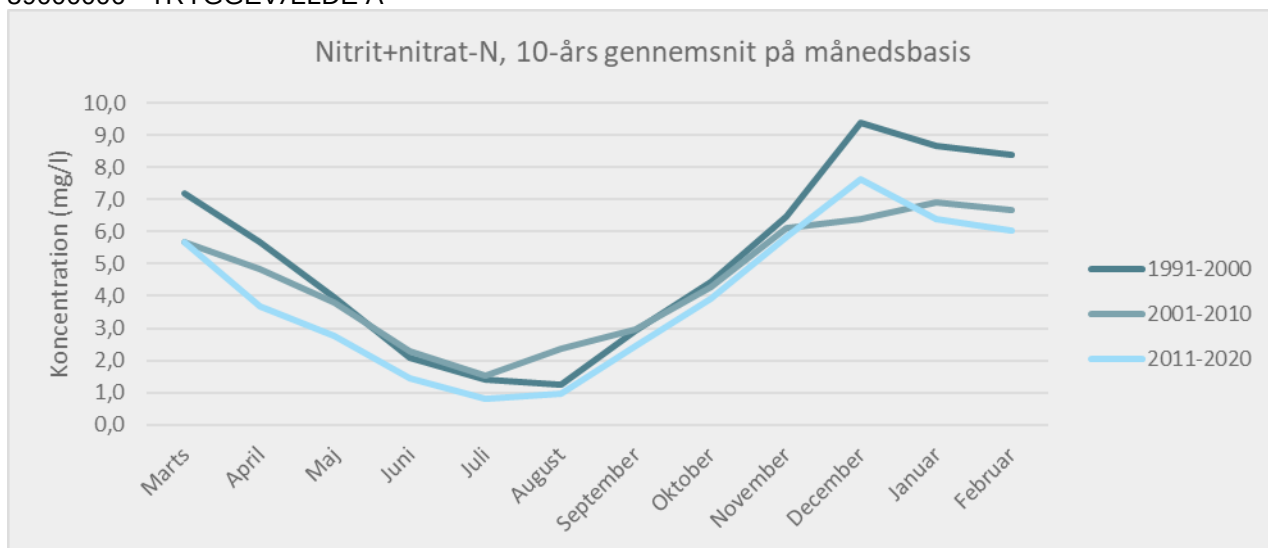
57000055 - SALTØ Å



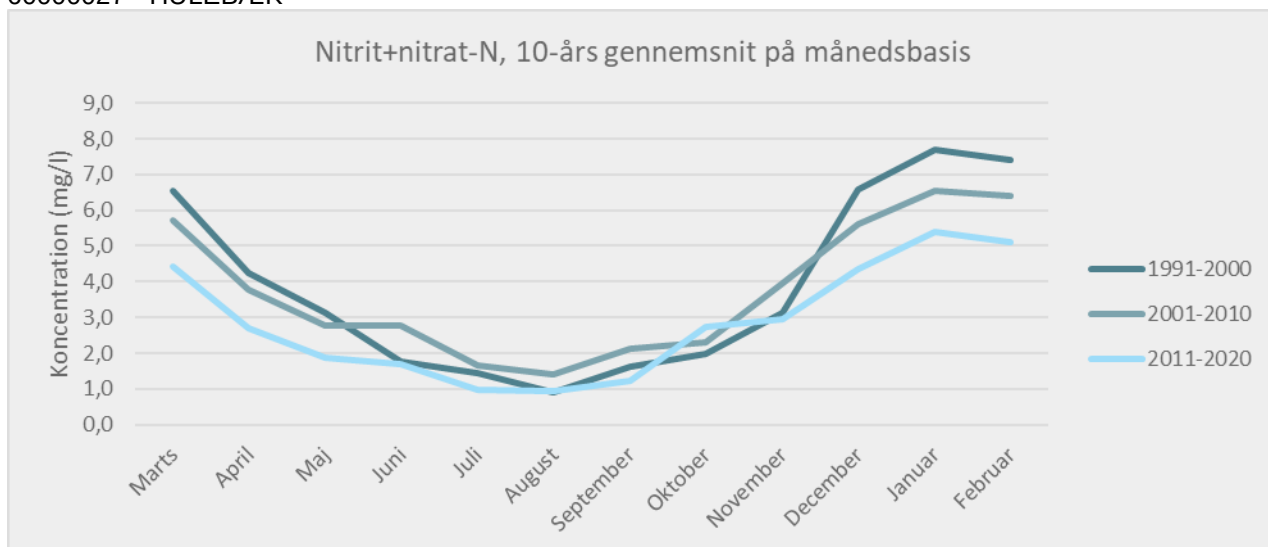
57000058 - SUSÅ



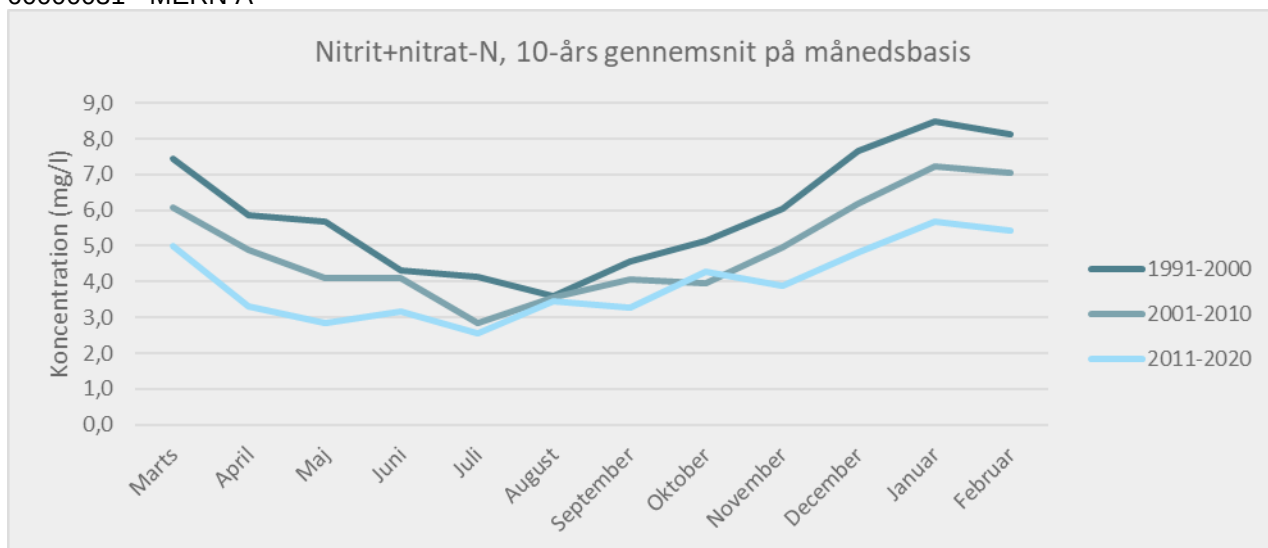
59000006 - TRYKKEVÆLDE Å



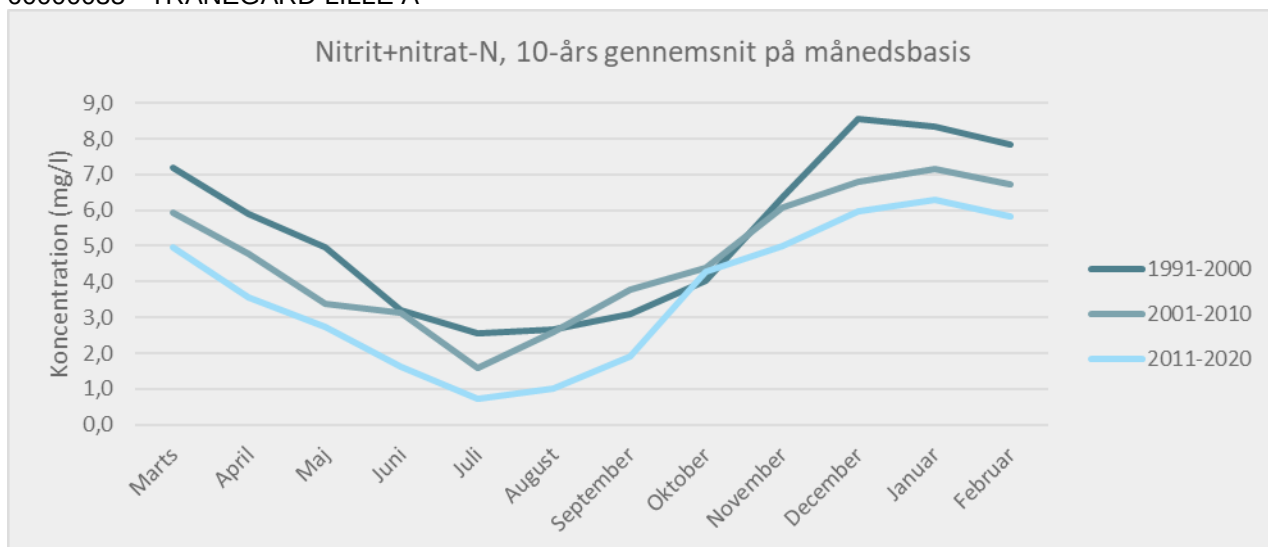
60000027 - HULEBÆK



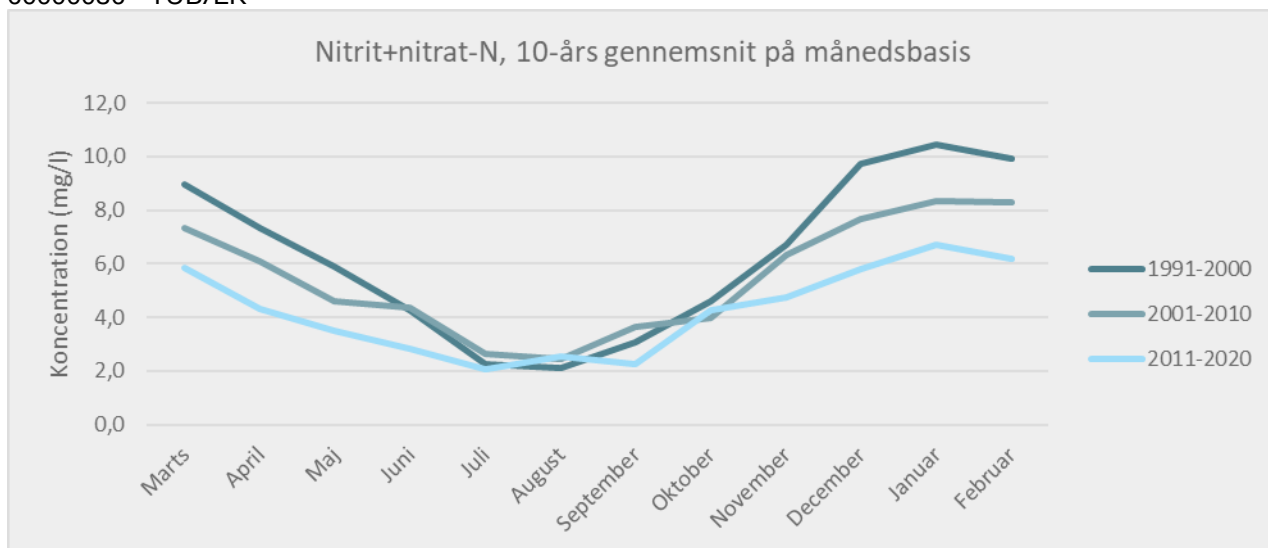
60000031 - MERN Å



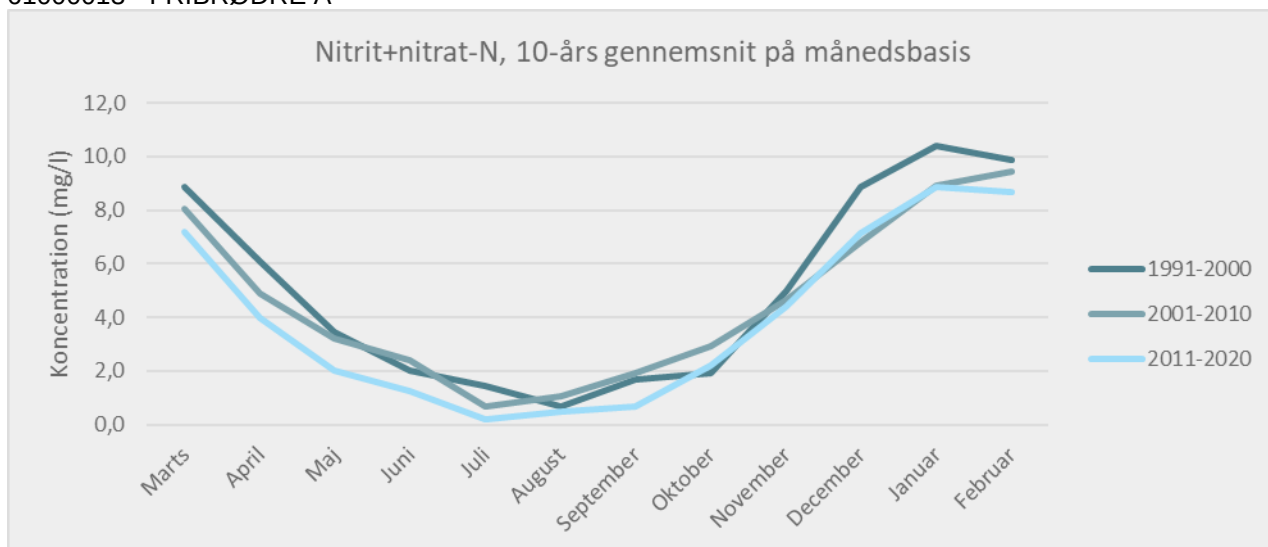
60000035 - TRANEGÅRD LILLE Å



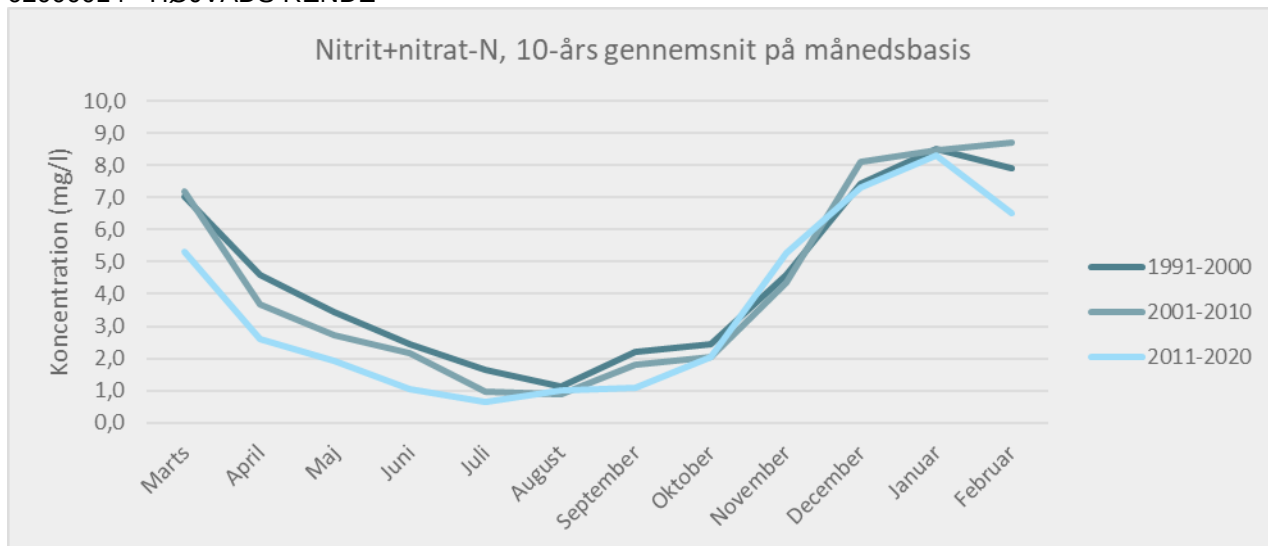
60000036 - TUBÆK



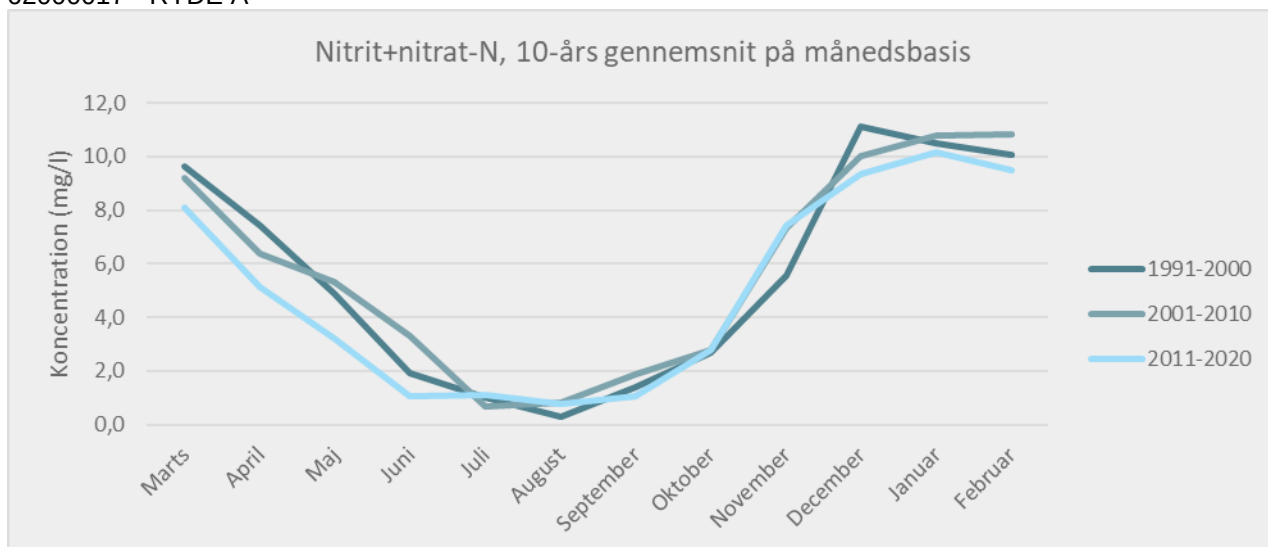
61000013 - FRIBRØDRE Å



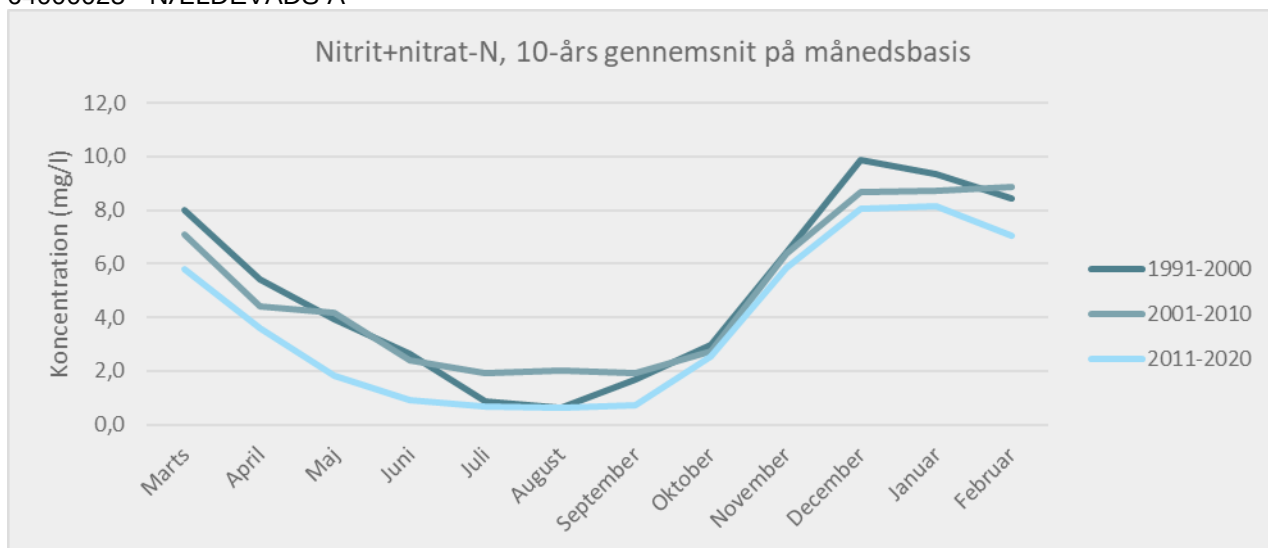
62000014 - HØJVADS RENDE

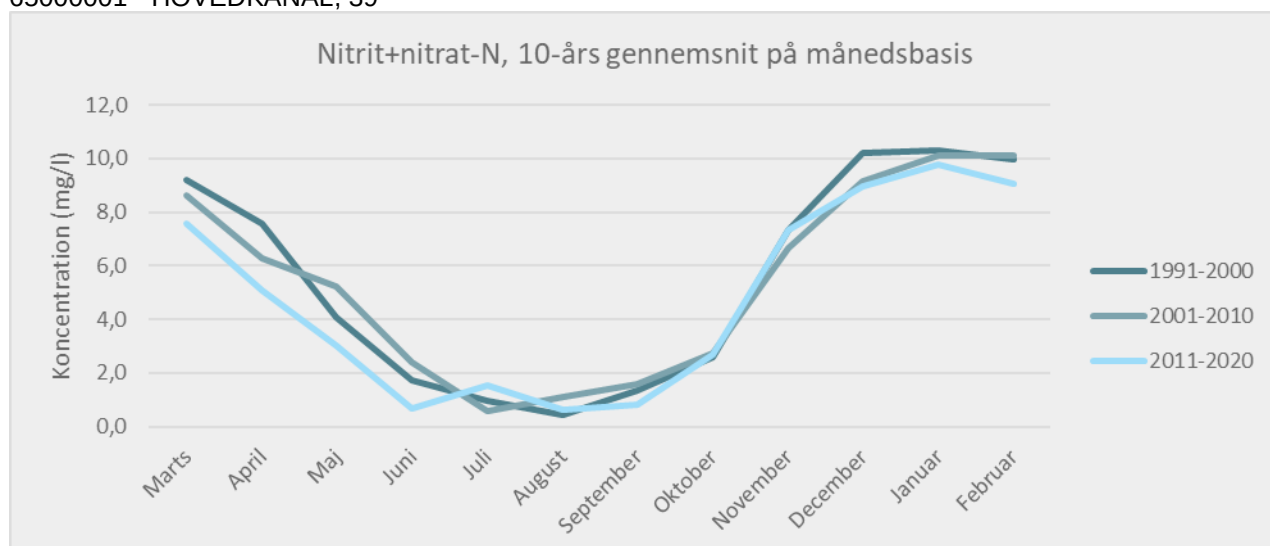


62000017 - RYDE Å

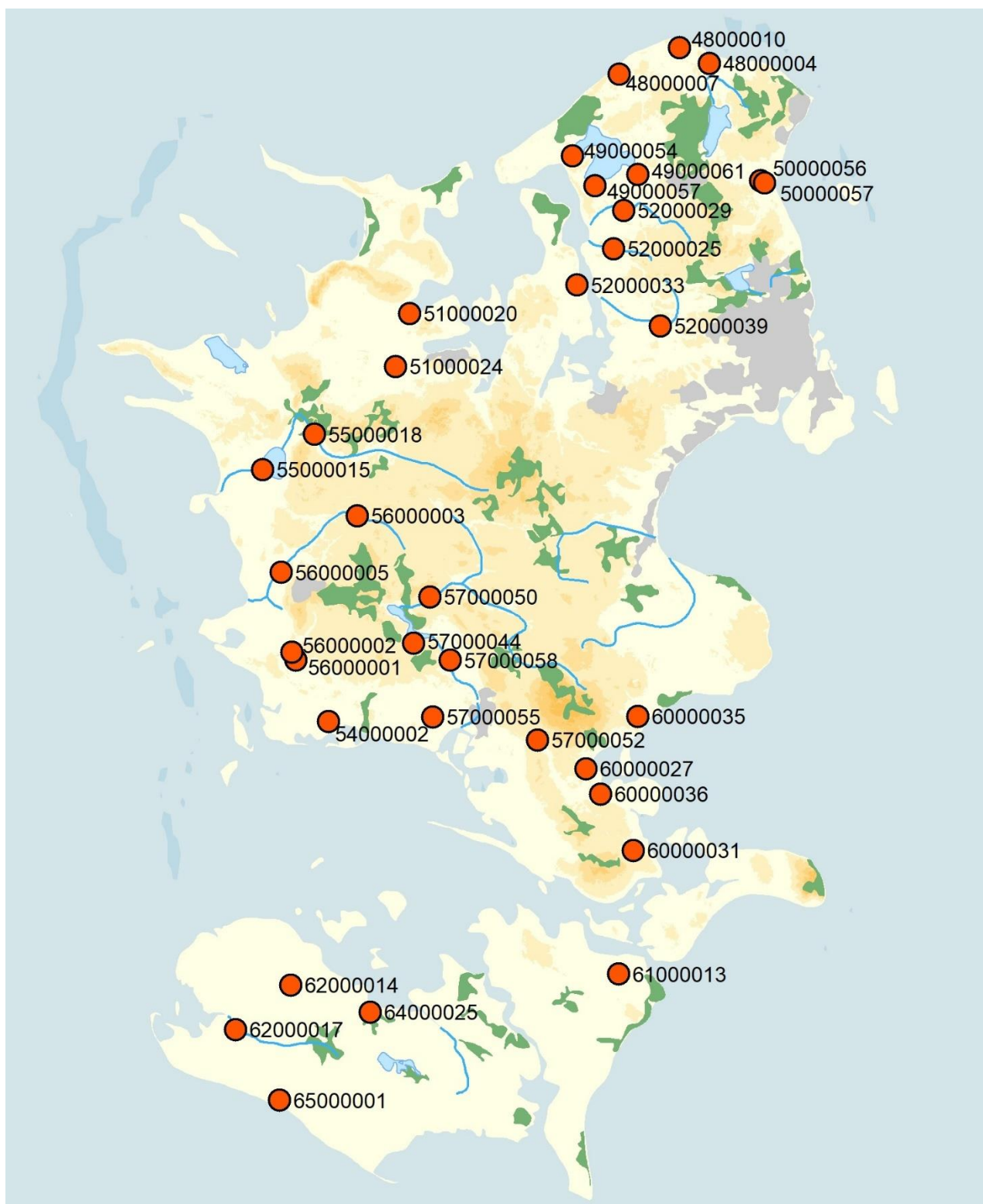


64000025 - NÆLDEVADS Å



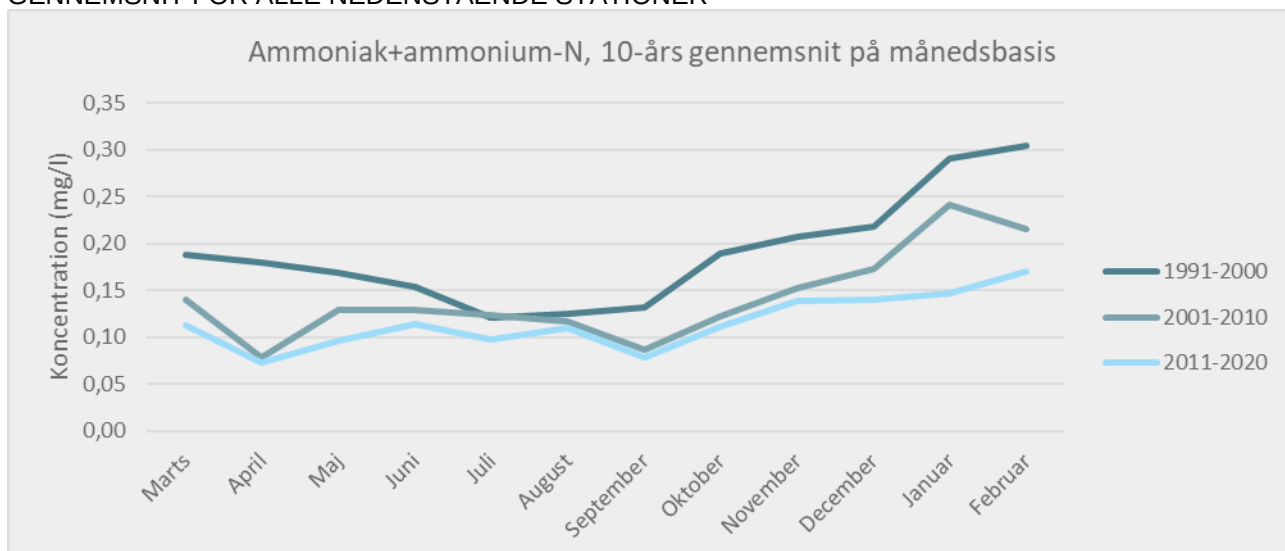


1.3 Ammonium+ammoniak-N:

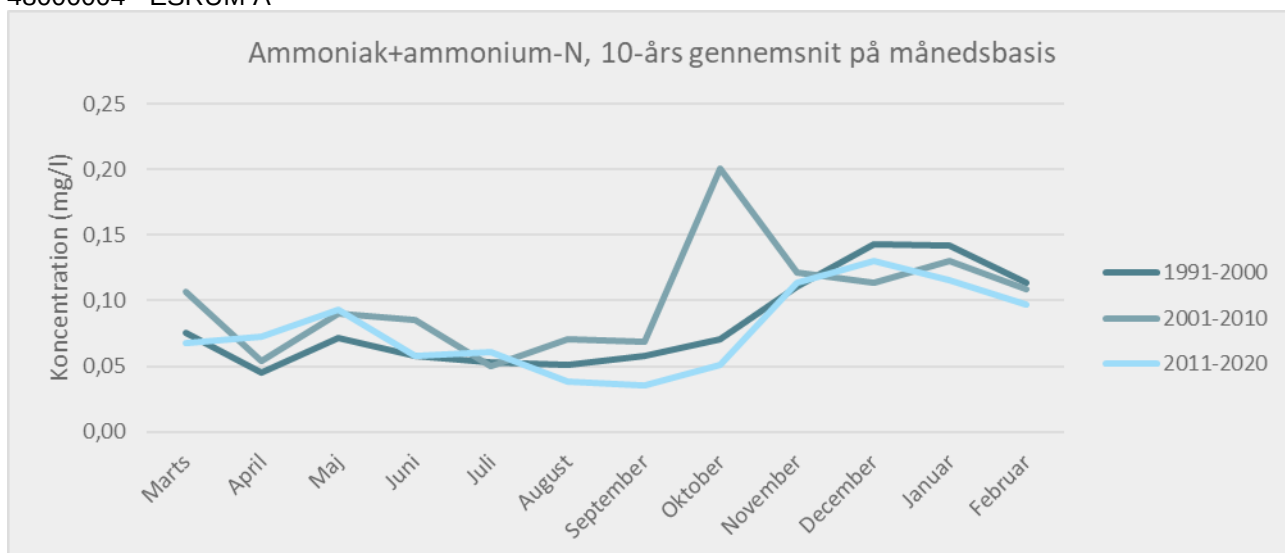


Geografisk placering af de 35 nedenstående målestationer udvalgt for ammoniak+ammonium-N

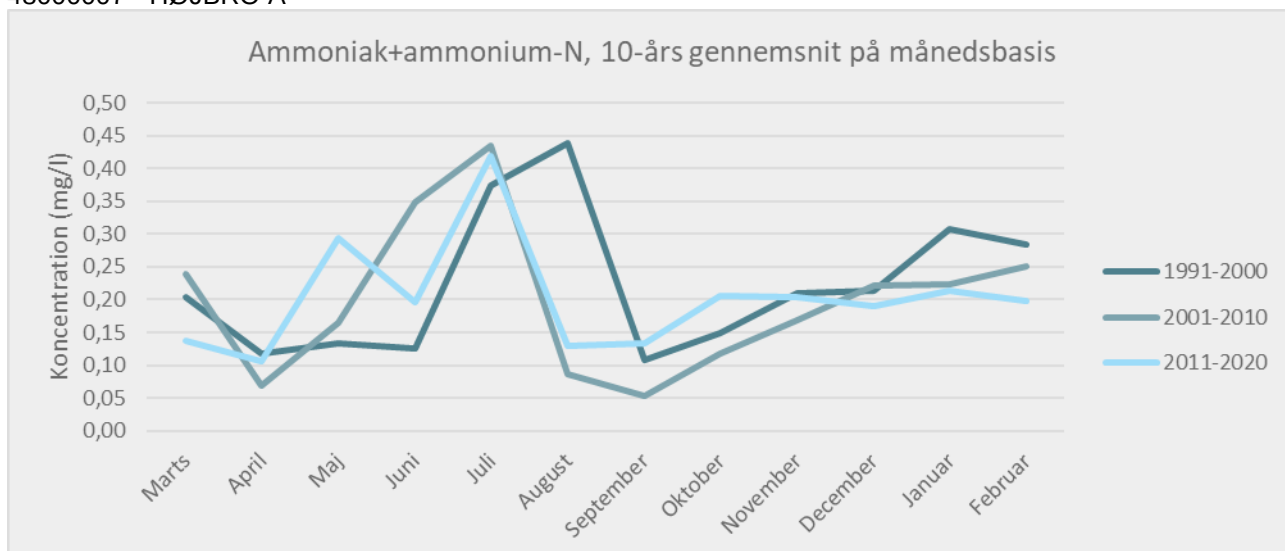
GENNEMSNIET FOR ALLE NEDENSTÅENDE STATIONER



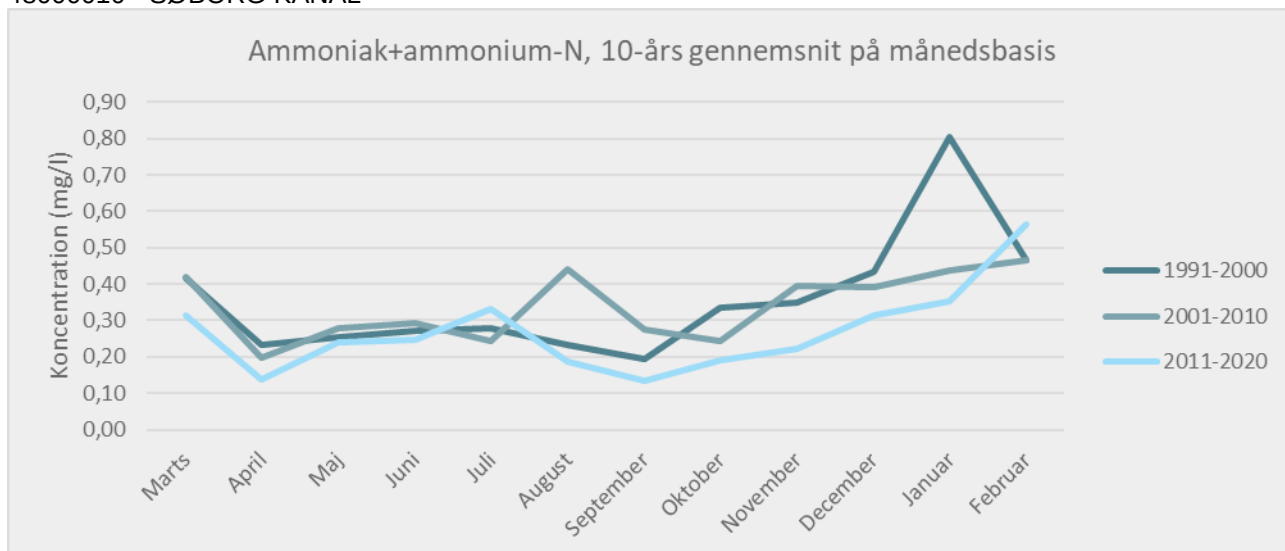
48000004 - ESRUM Å



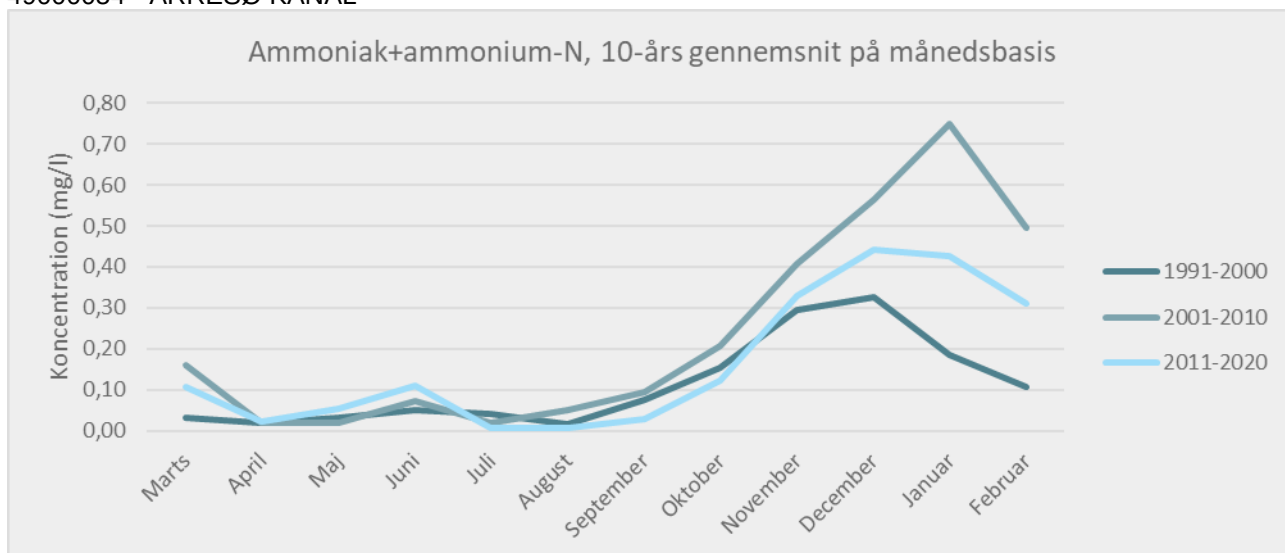
48000007 - HØJBRO Å



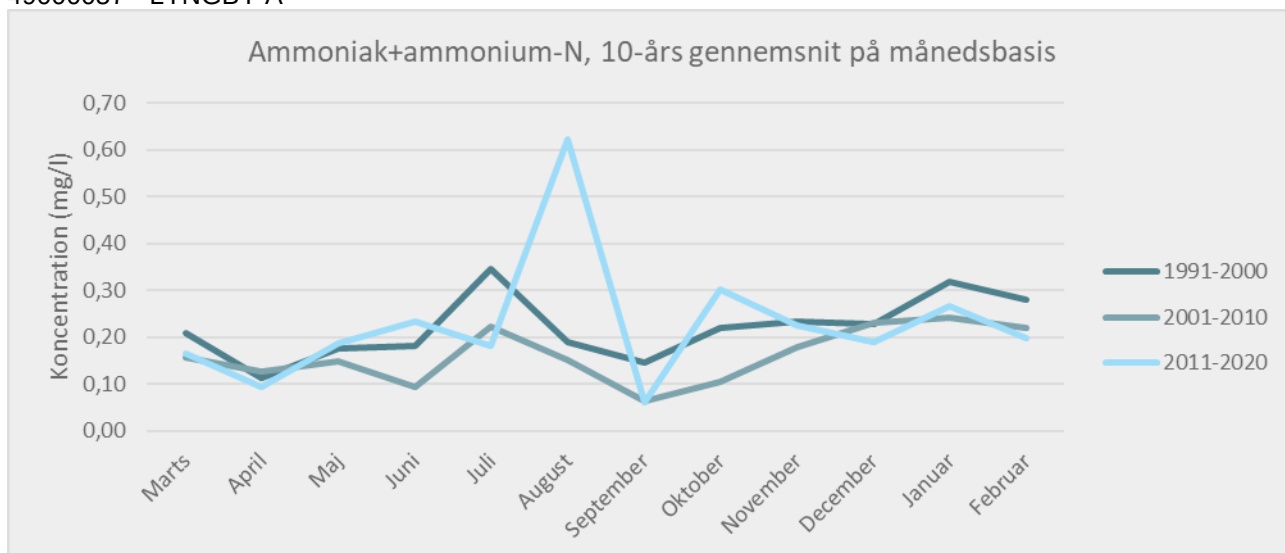
48000010 - SØBORG KANAL



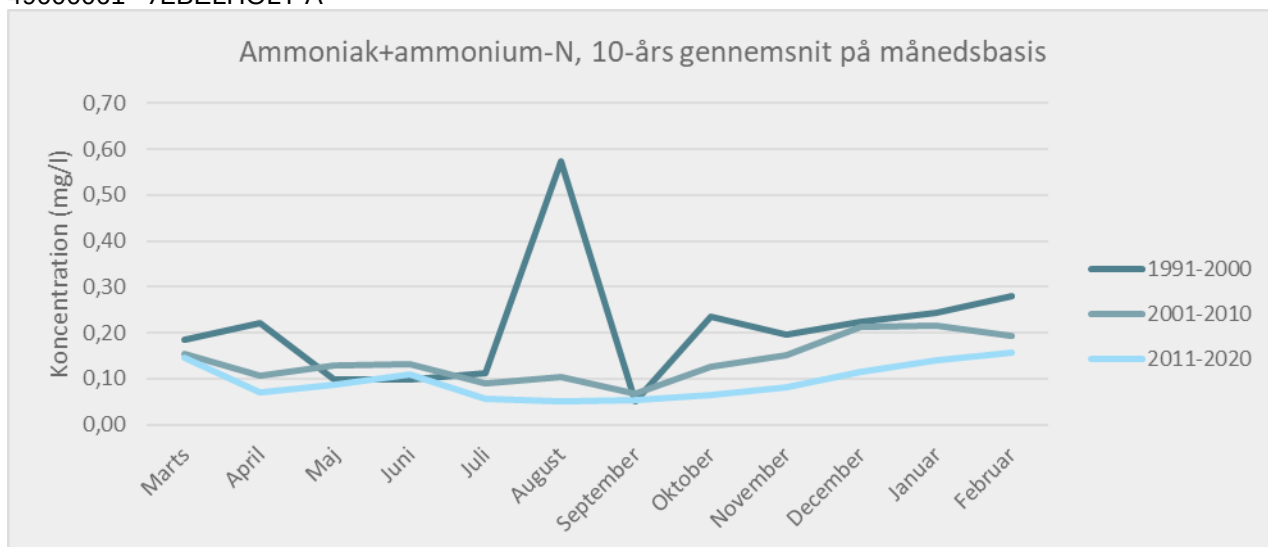
49000054 - ARRESØ KANAL



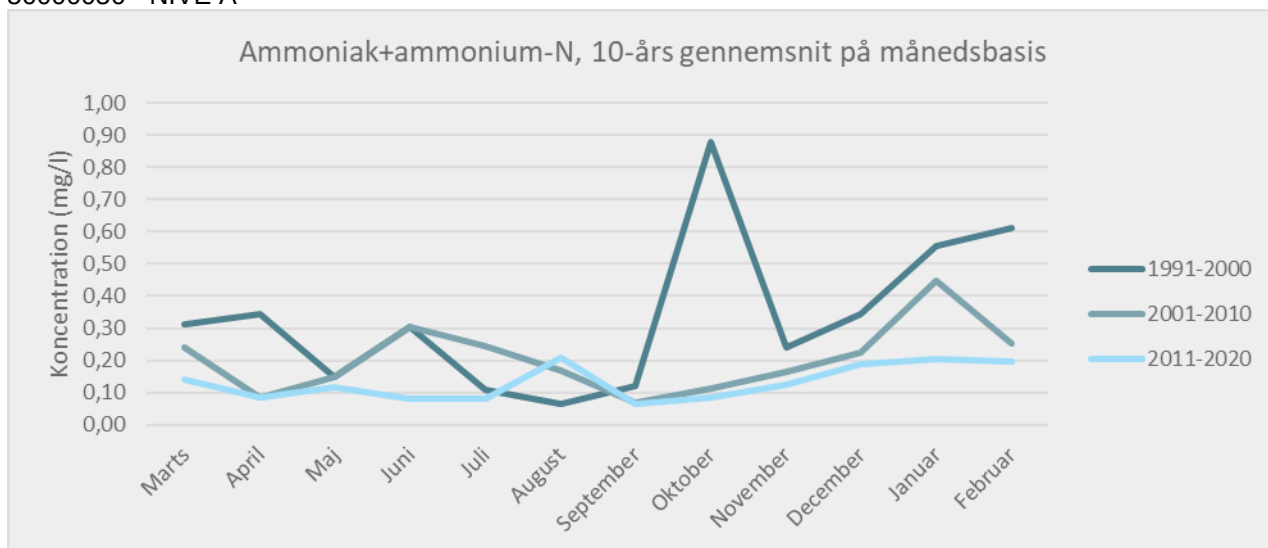
49000057 - LYNGBY Å



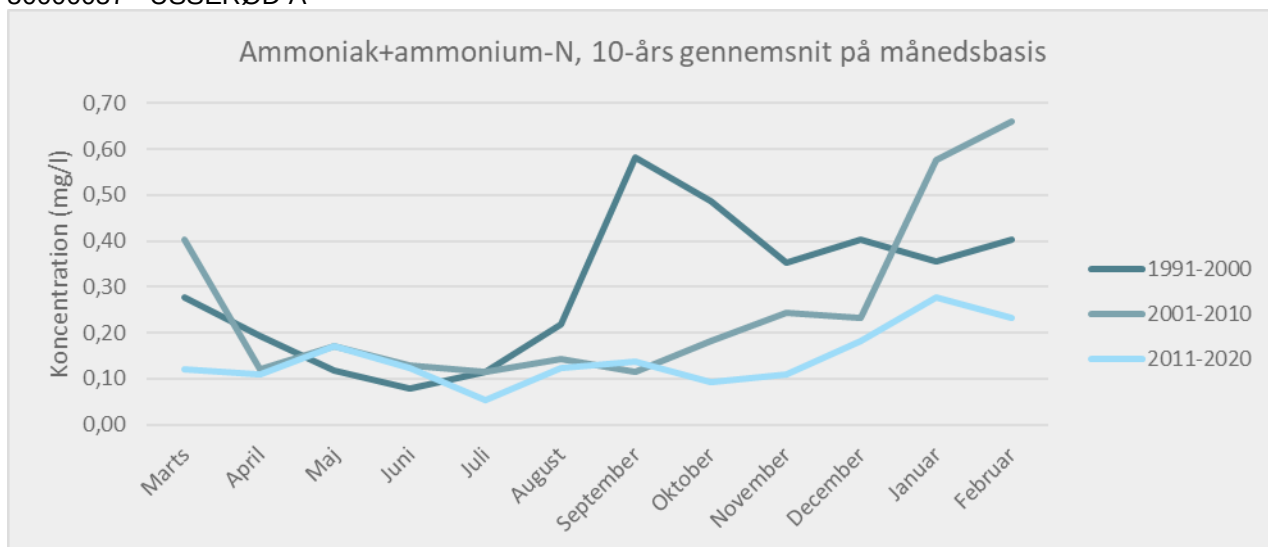
49000061 - ÆBELHOLT Å



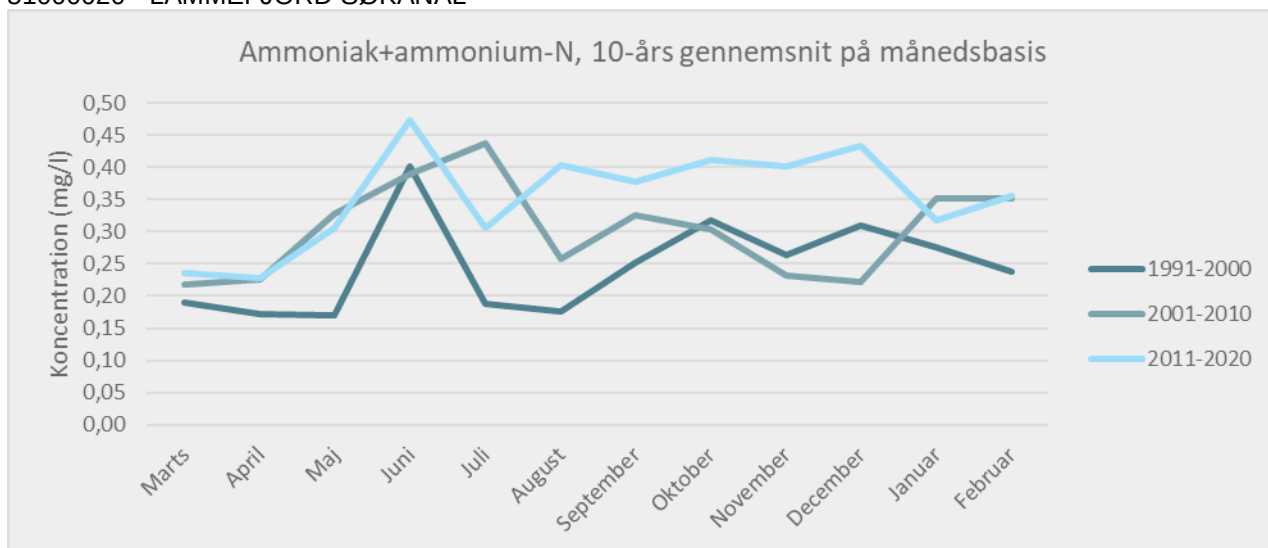
50000056 - NIVE Å



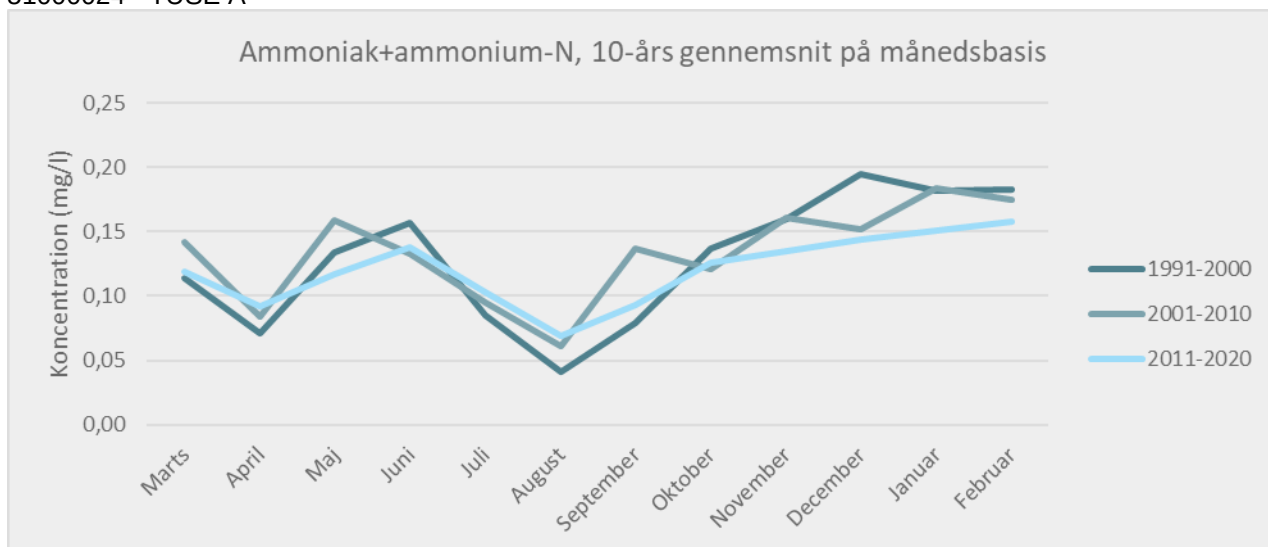
50000057 - USSERØD Å



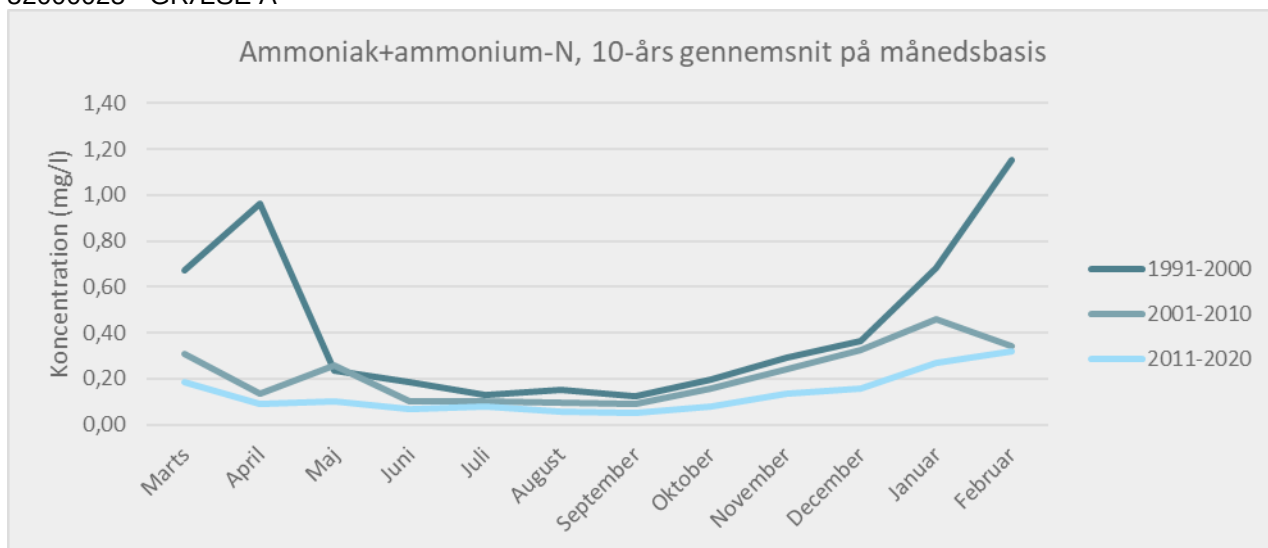
51000020 - LAMMEFJORD SØKANAL



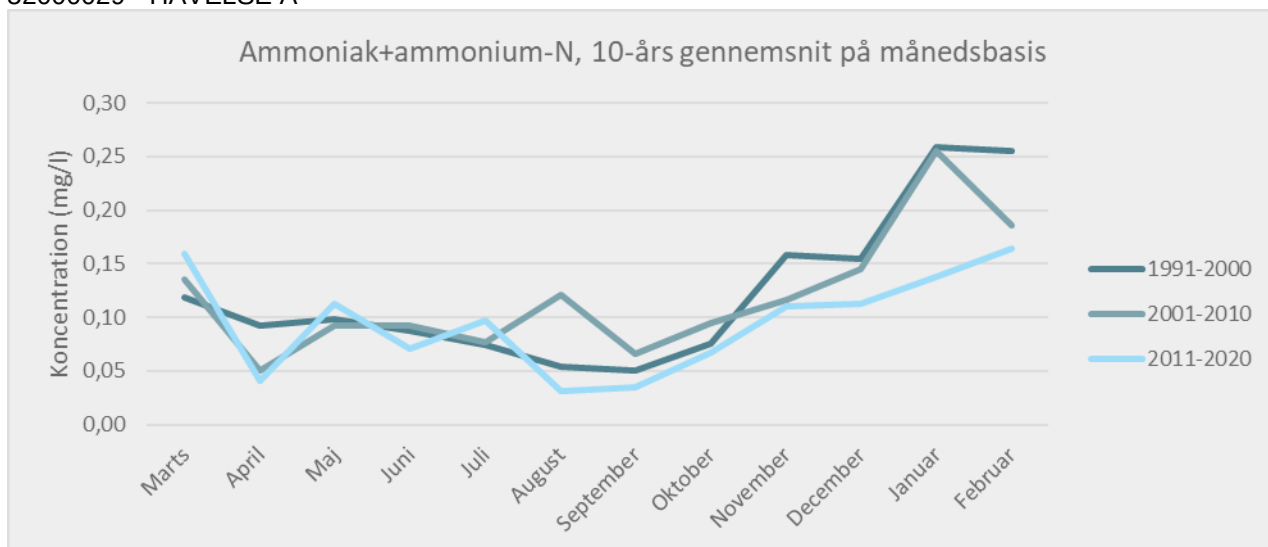
51000024 - TUSE Å



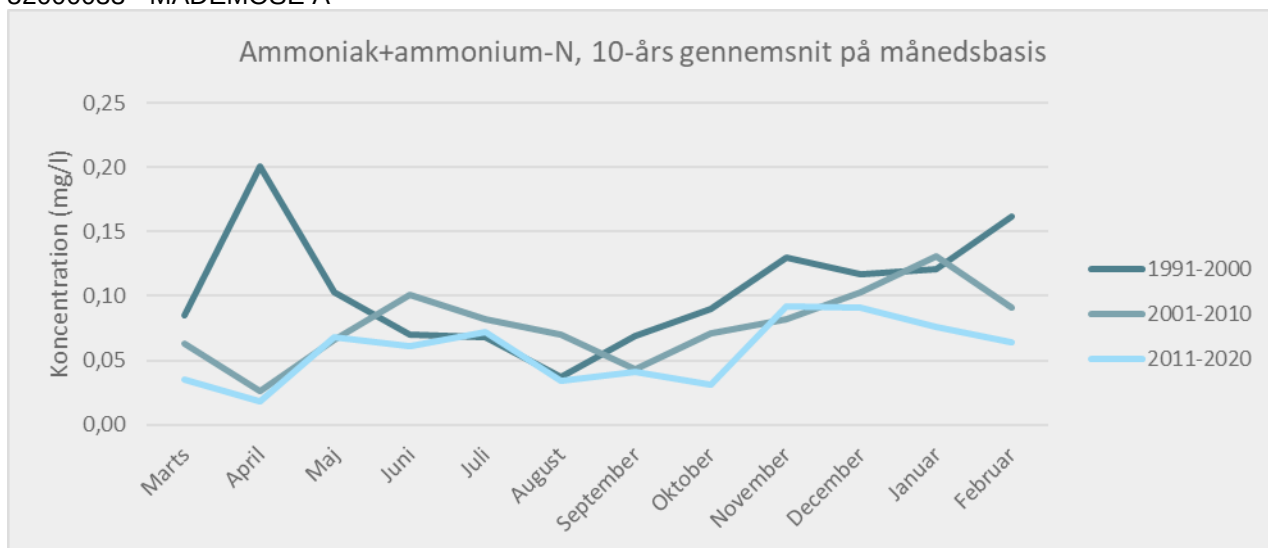
52000025 - GRÆSE Å



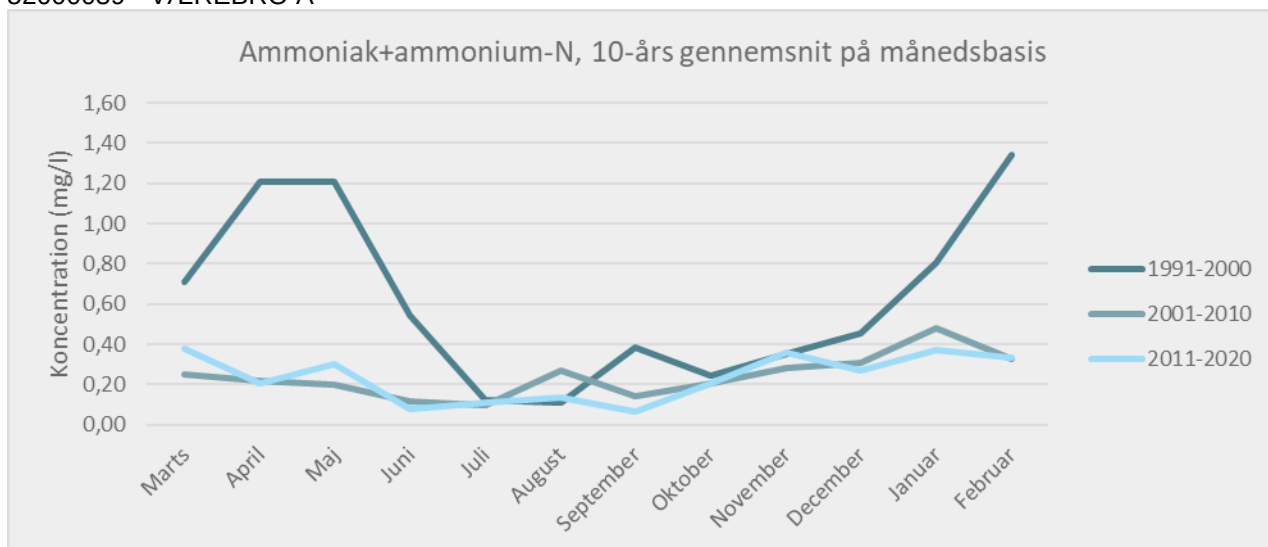
52000029 - HAVELSE Å



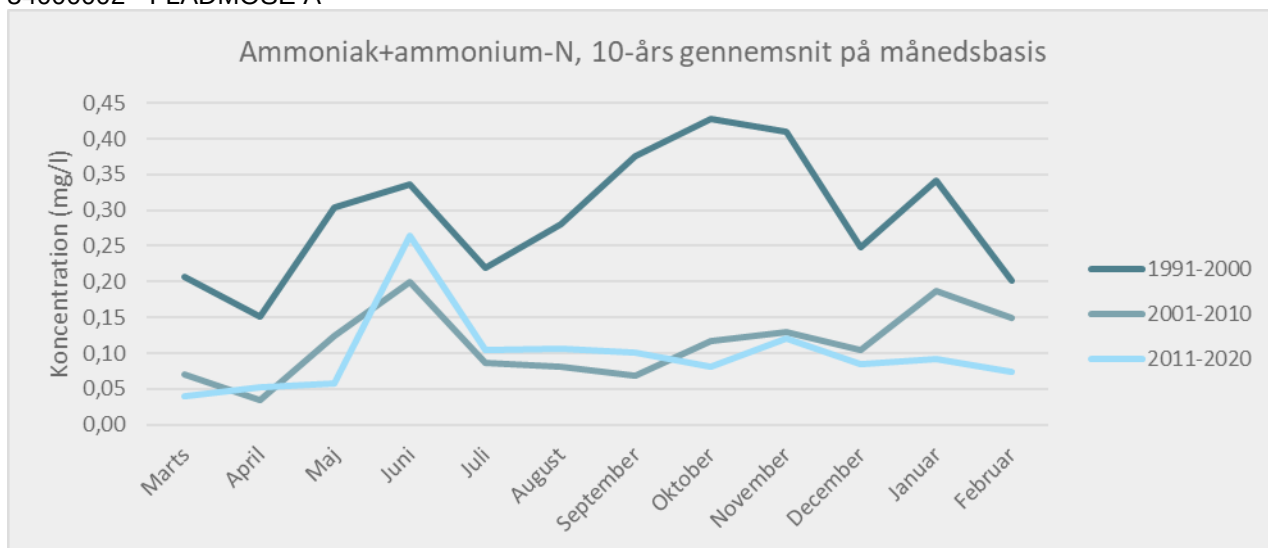
52000033 - MADEMOSE Å



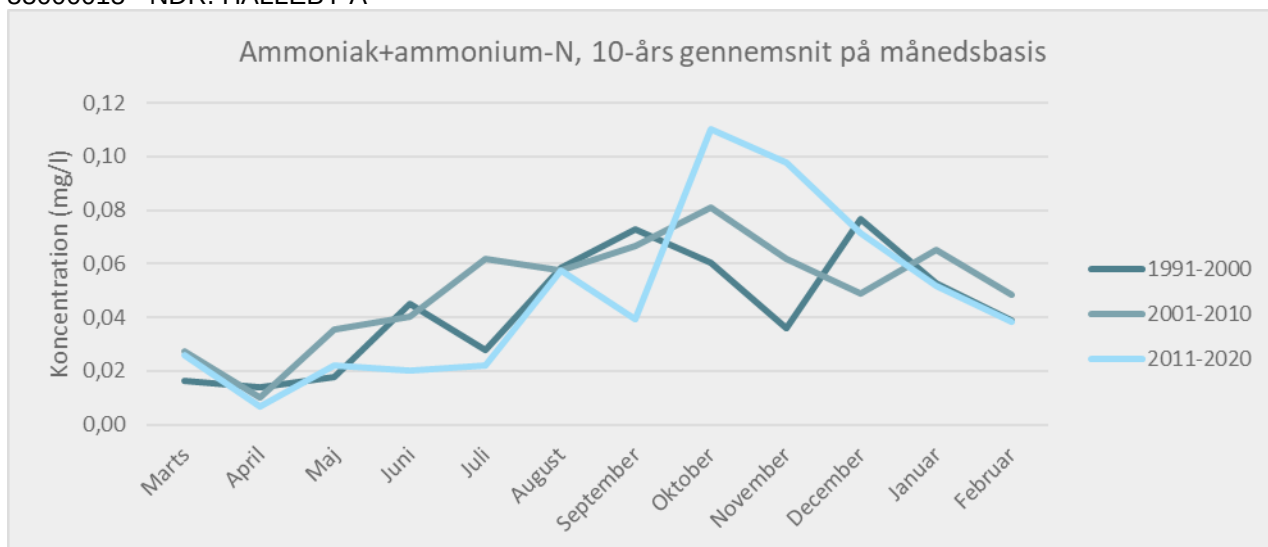
52000039 - VÆREBRO Å



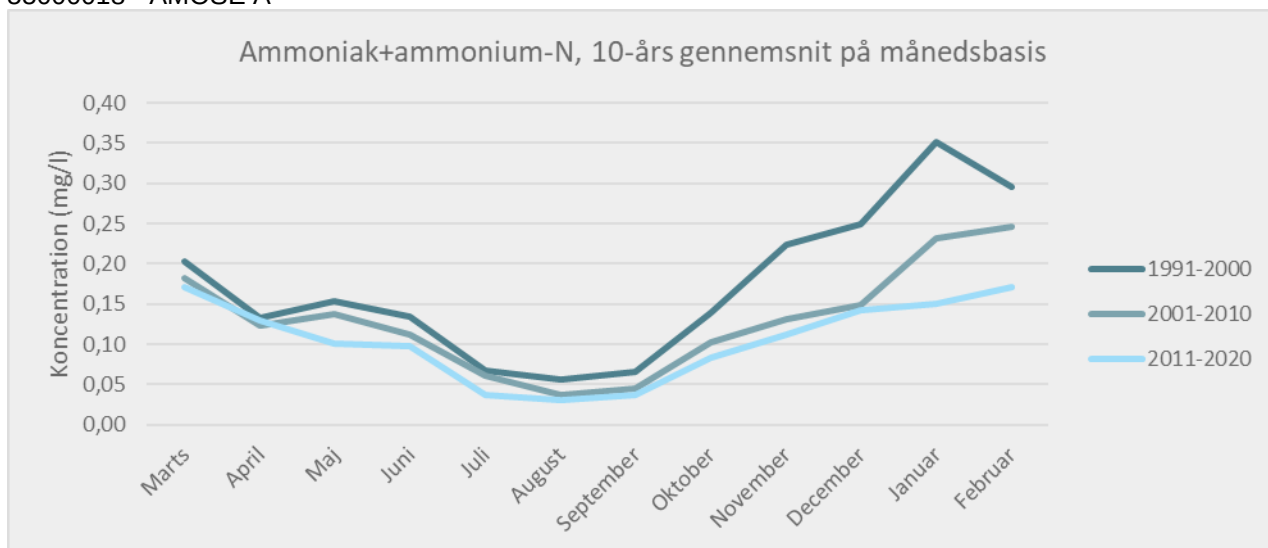
54000002 - FLADMOSE Å



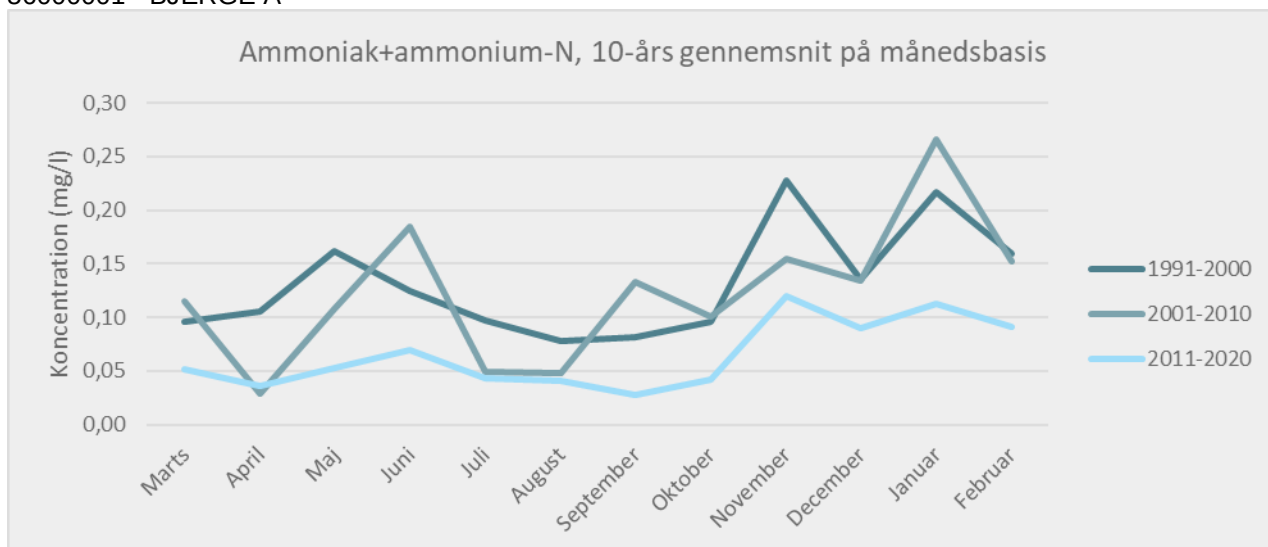
55000015 - NDR. HALLEBY Å



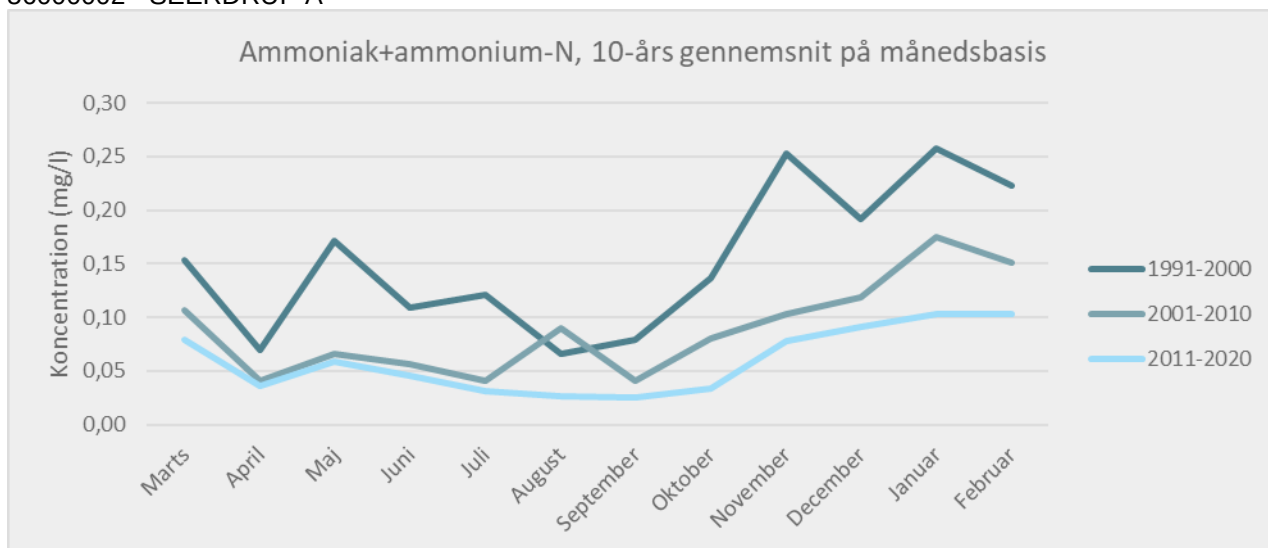
55000018 - ÅMOSE Å



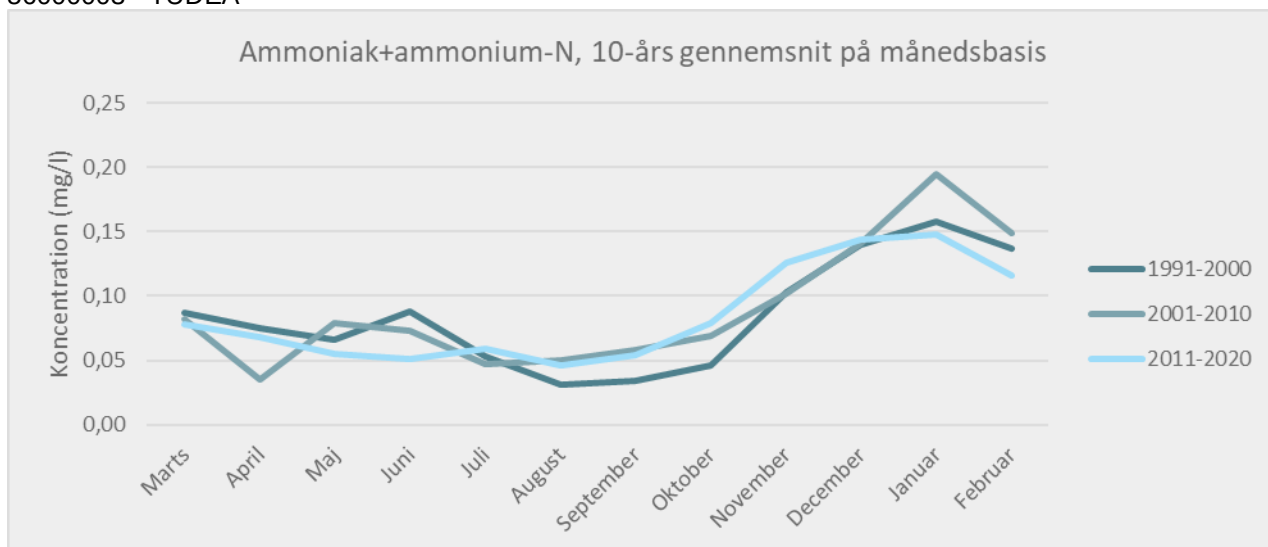
56000001 - BJERGE Å



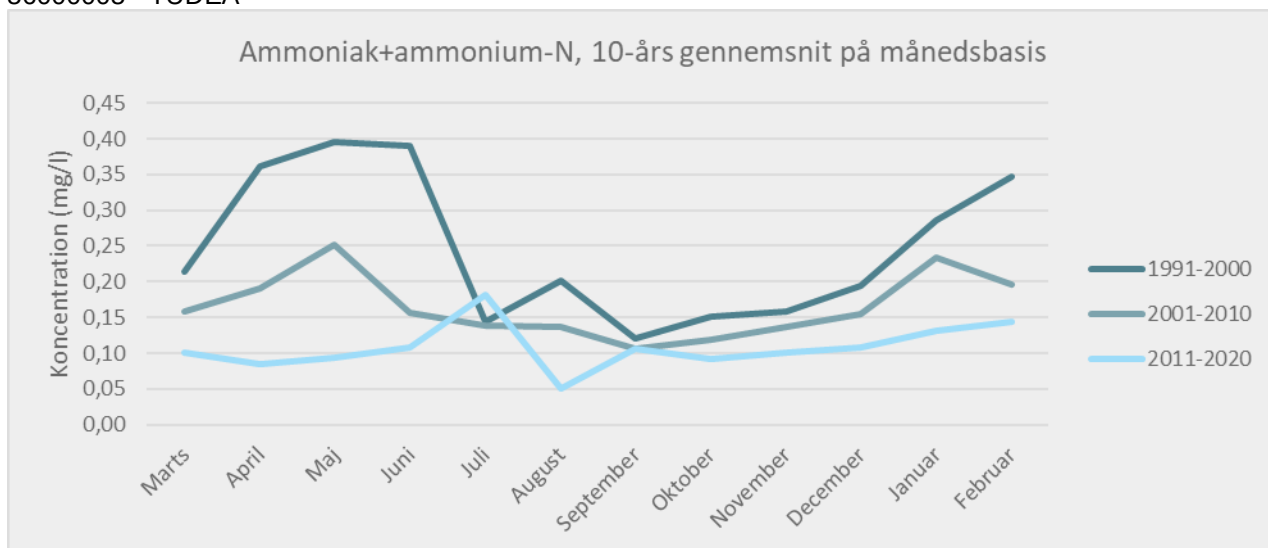
56000002 - SEERDRUP Å



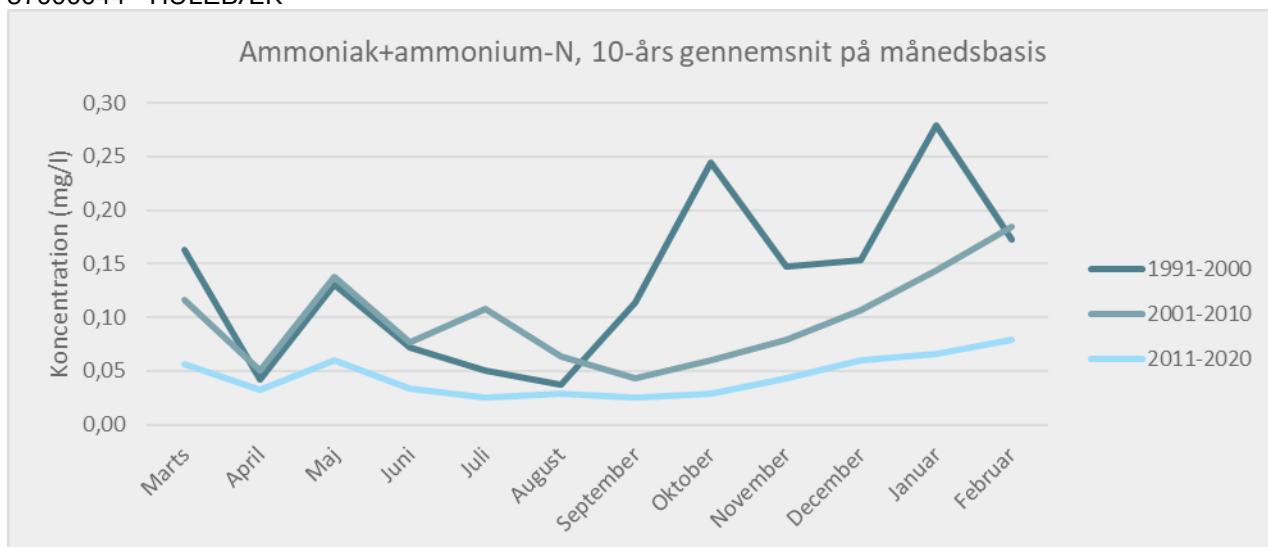
56000003 - TUDEÅ



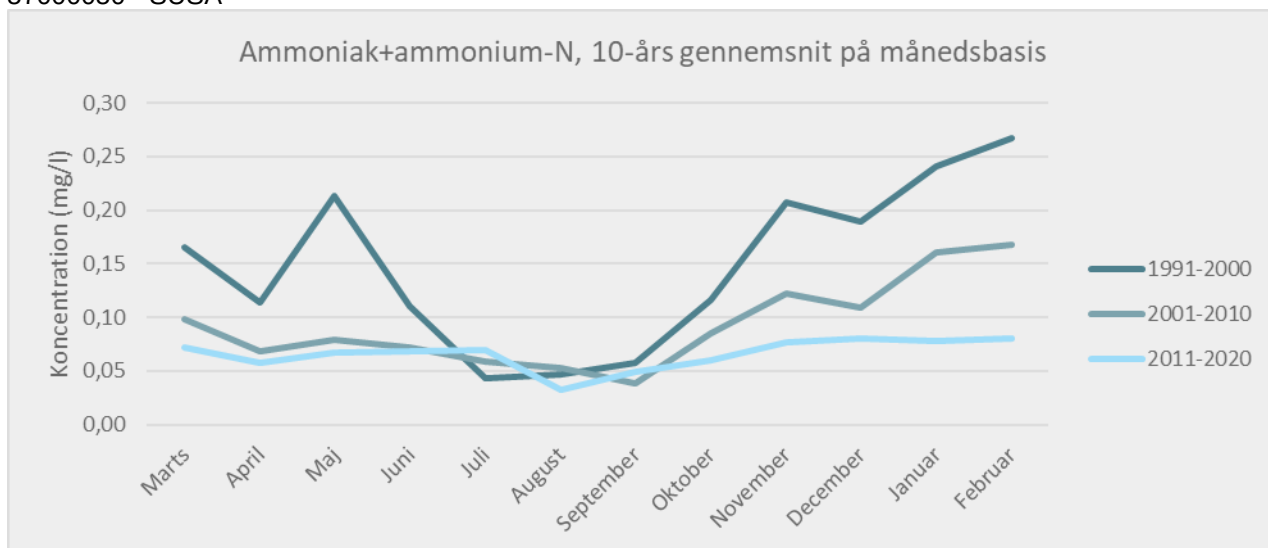
56000005 - TUDEÅ



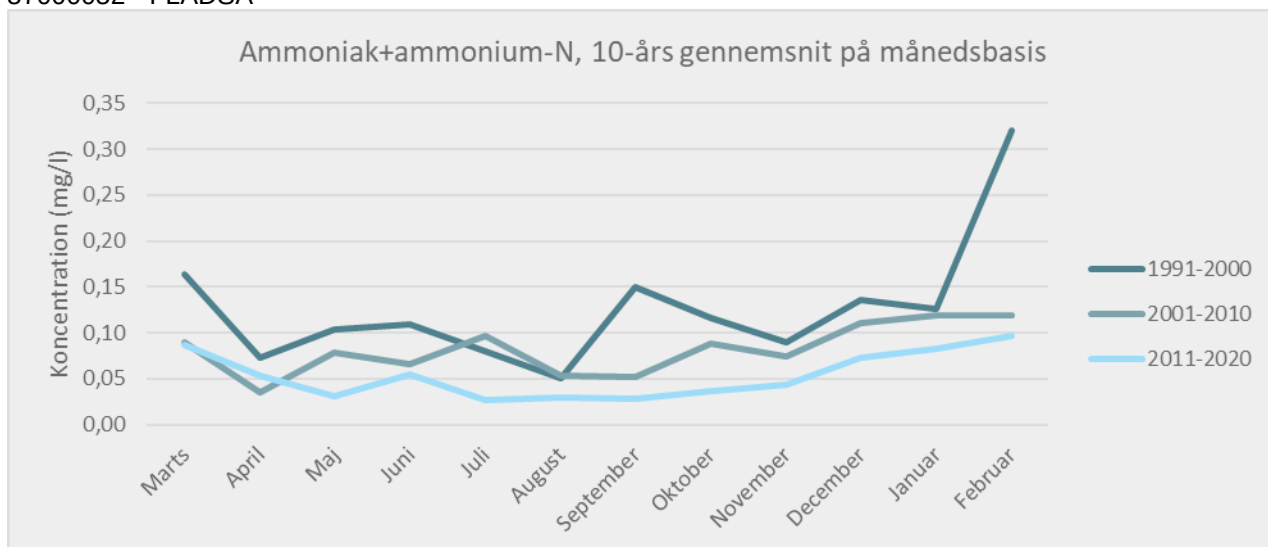
57000044 - HULEBÆK



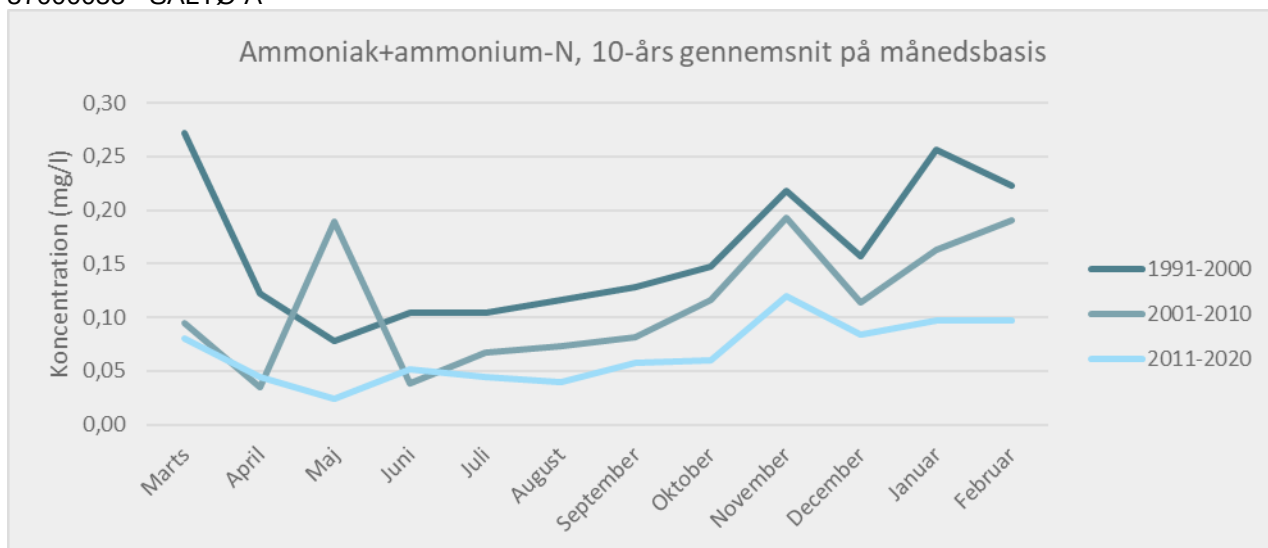
57000050 - SUSÅ



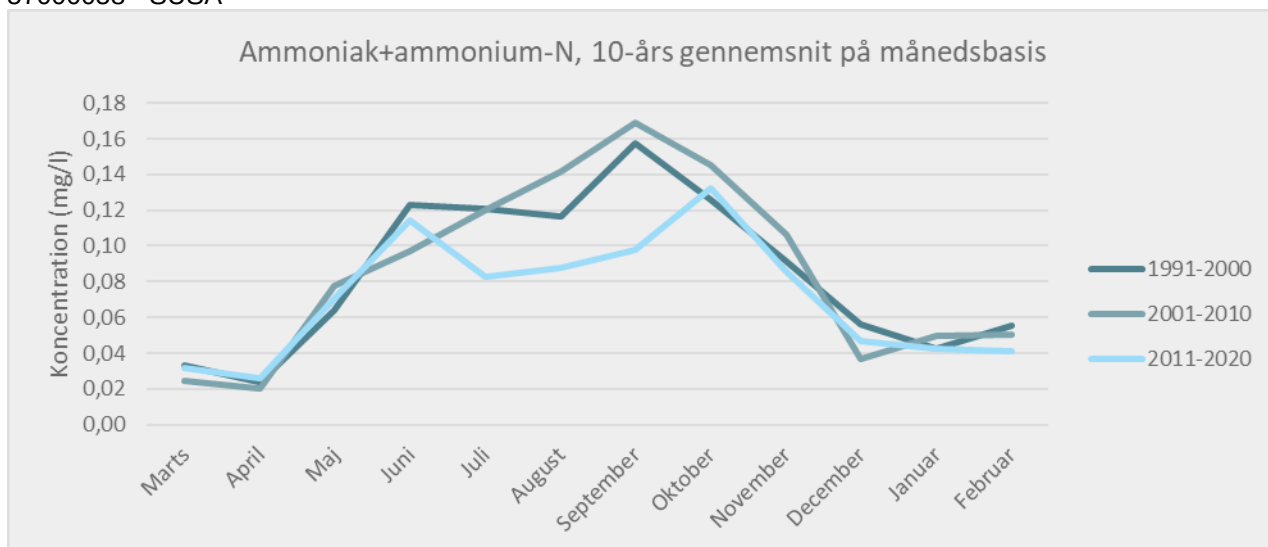
57000052 - FLADSÅ



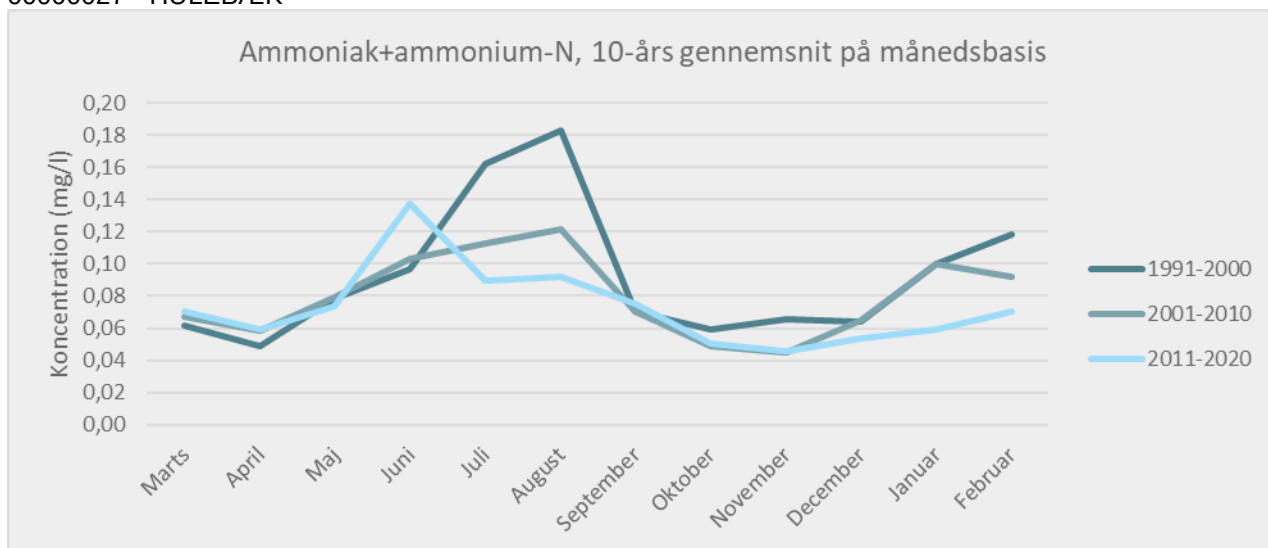
57000055 - SALTØ Å



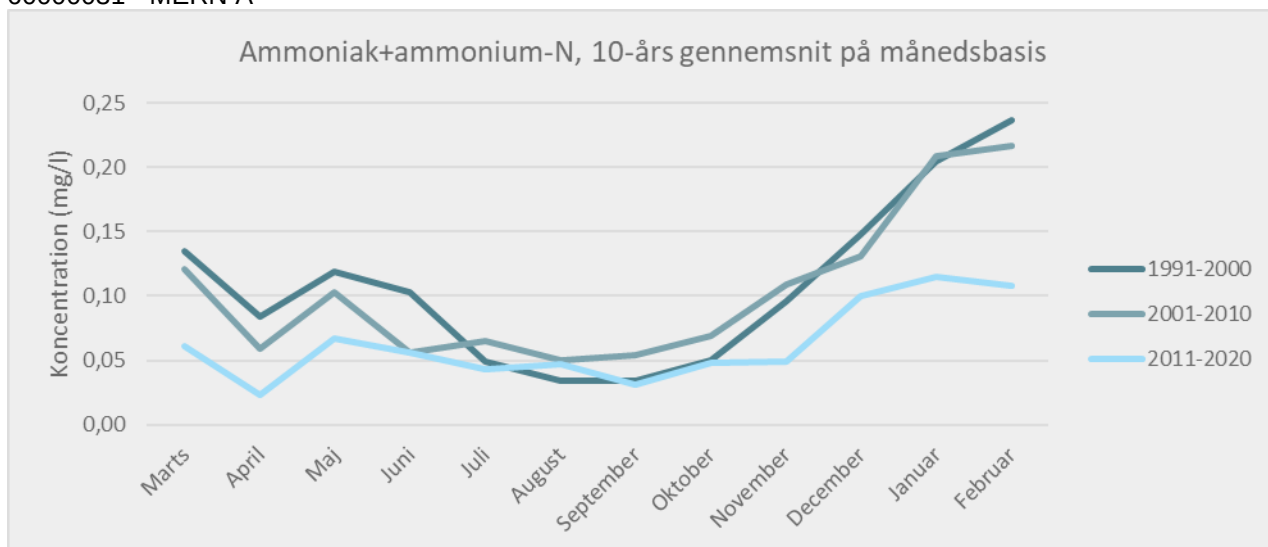
57000058 - SUSÅ



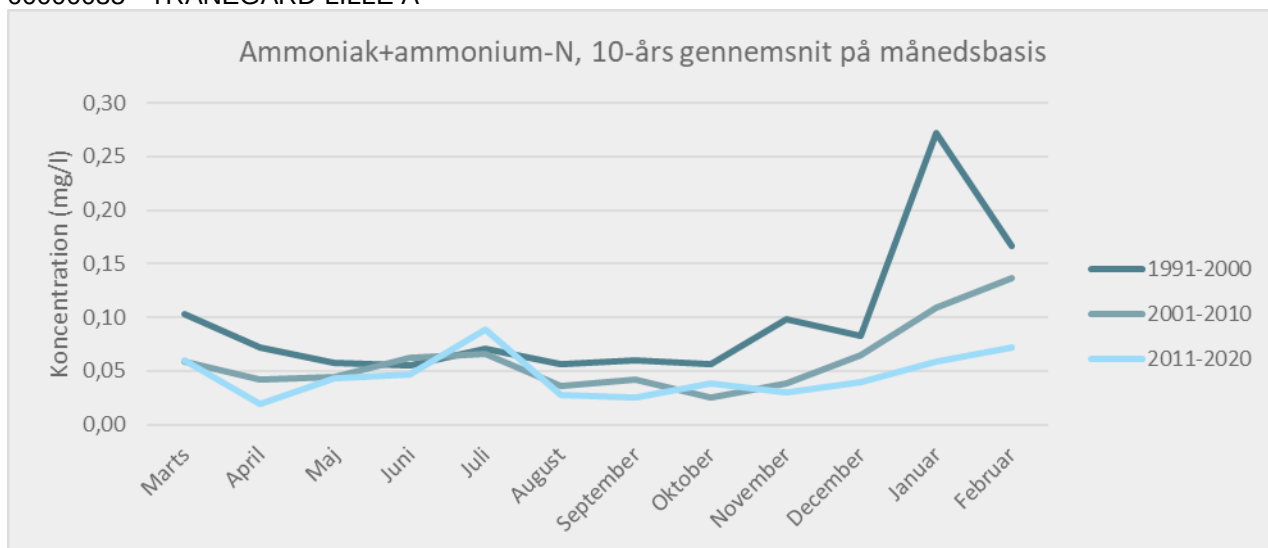
60000027 - HULEBÆK



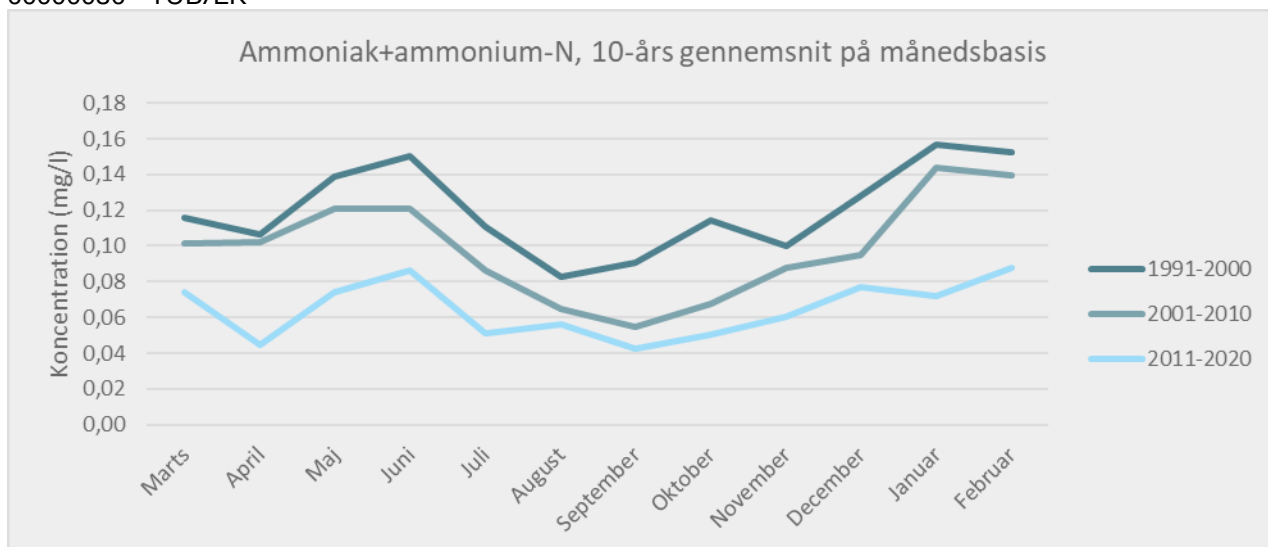
60000031 - MERN Å



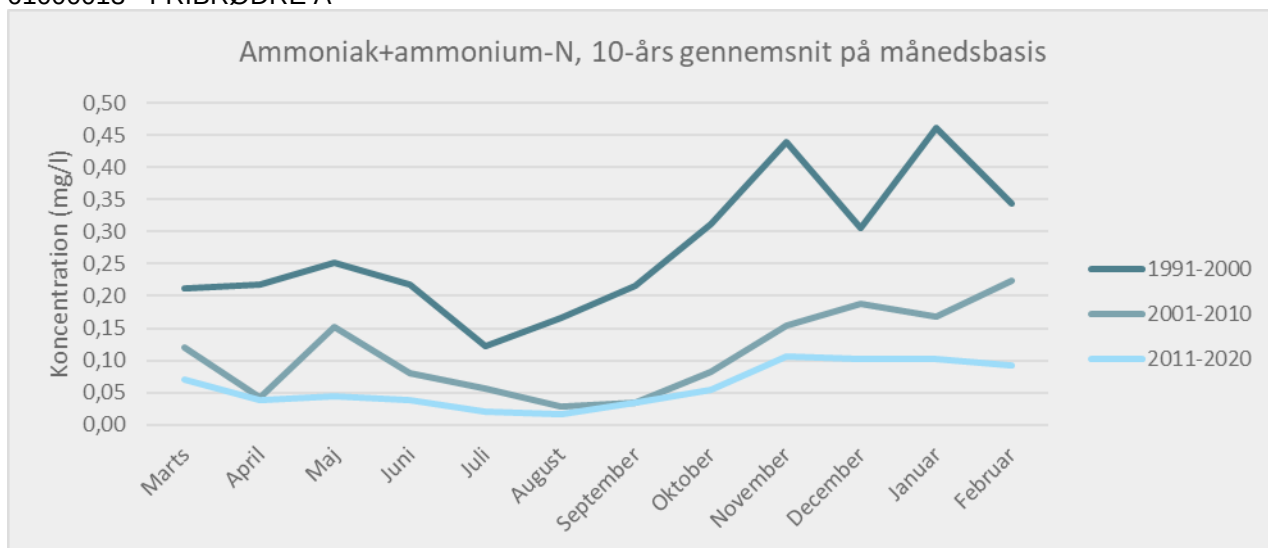
60000035 - TRANEGÅRD LILLE Å



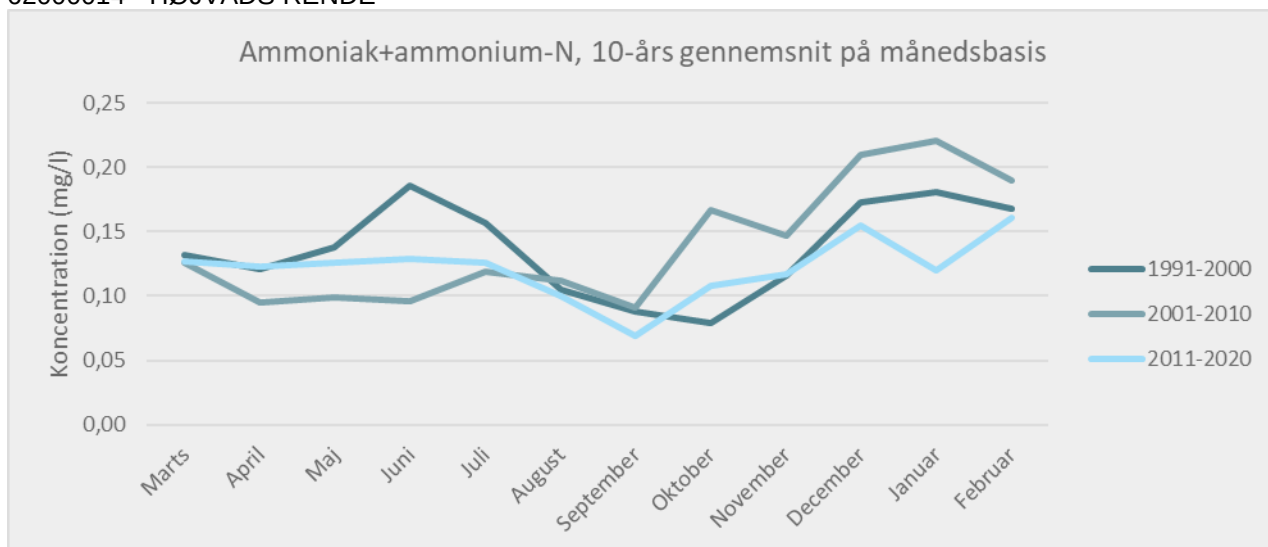
60000036 - TUBÆK



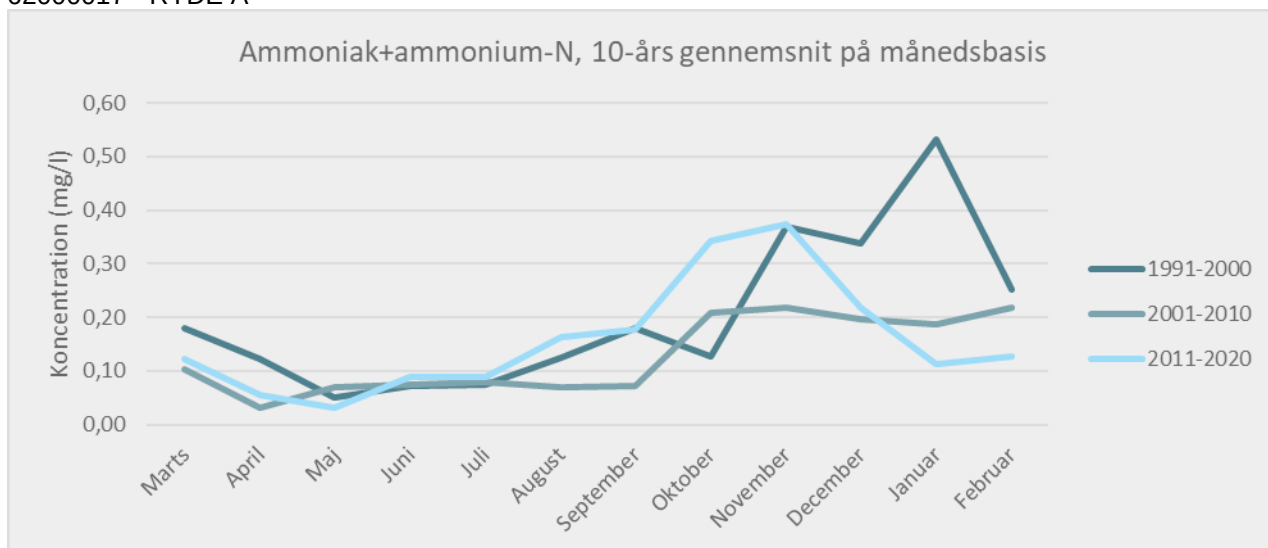
61000013 - FRIBRØDRE Å



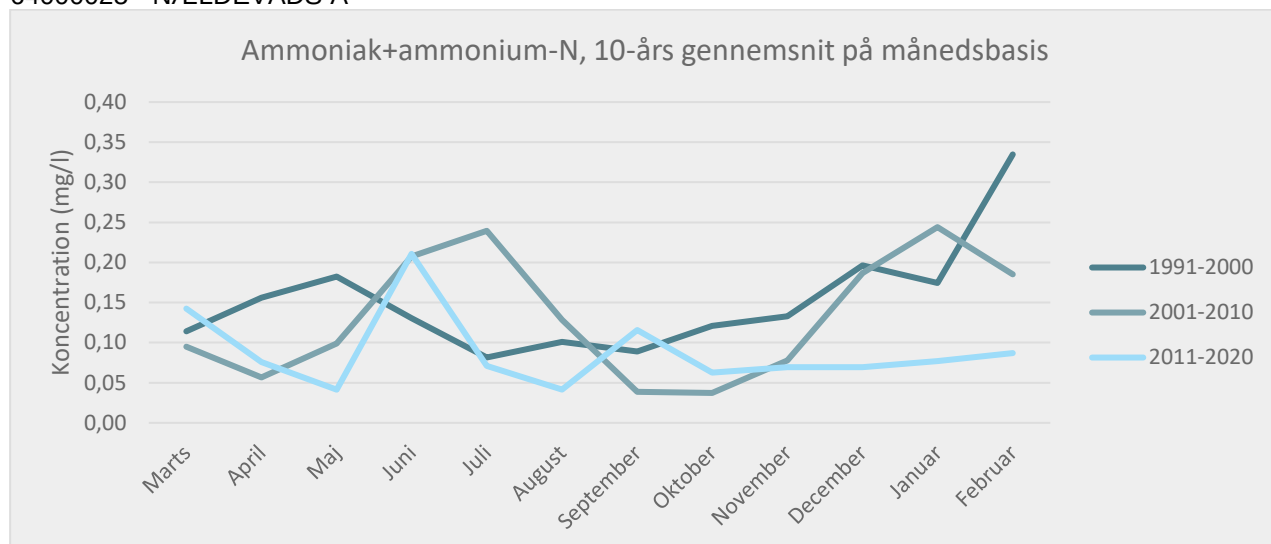
62000014 - HØJVADS RENDE



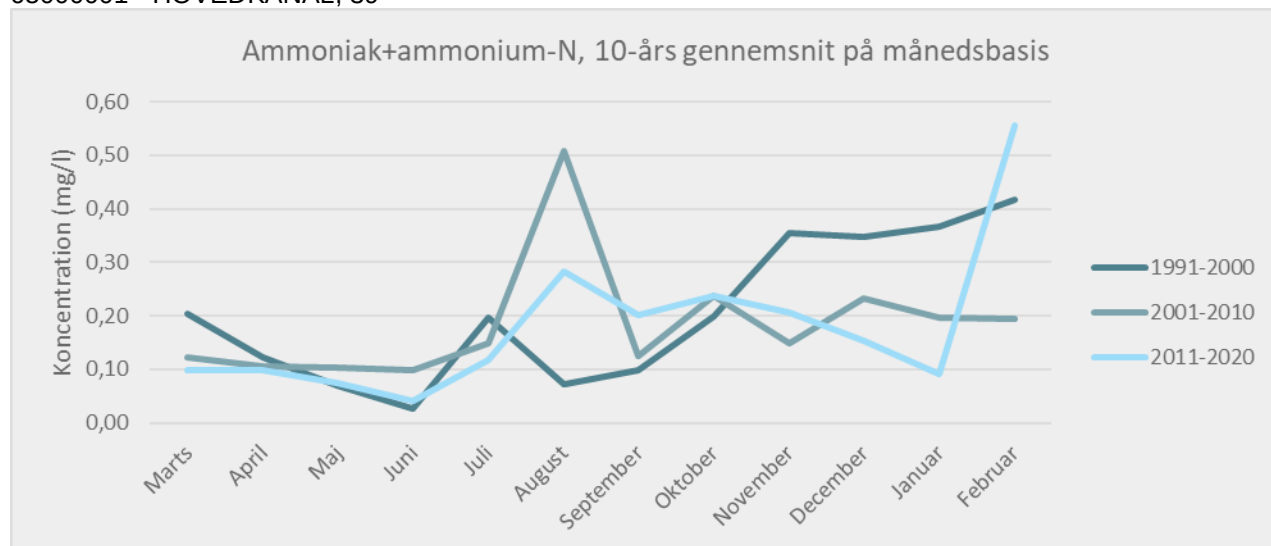
62000017 - RYDE Å



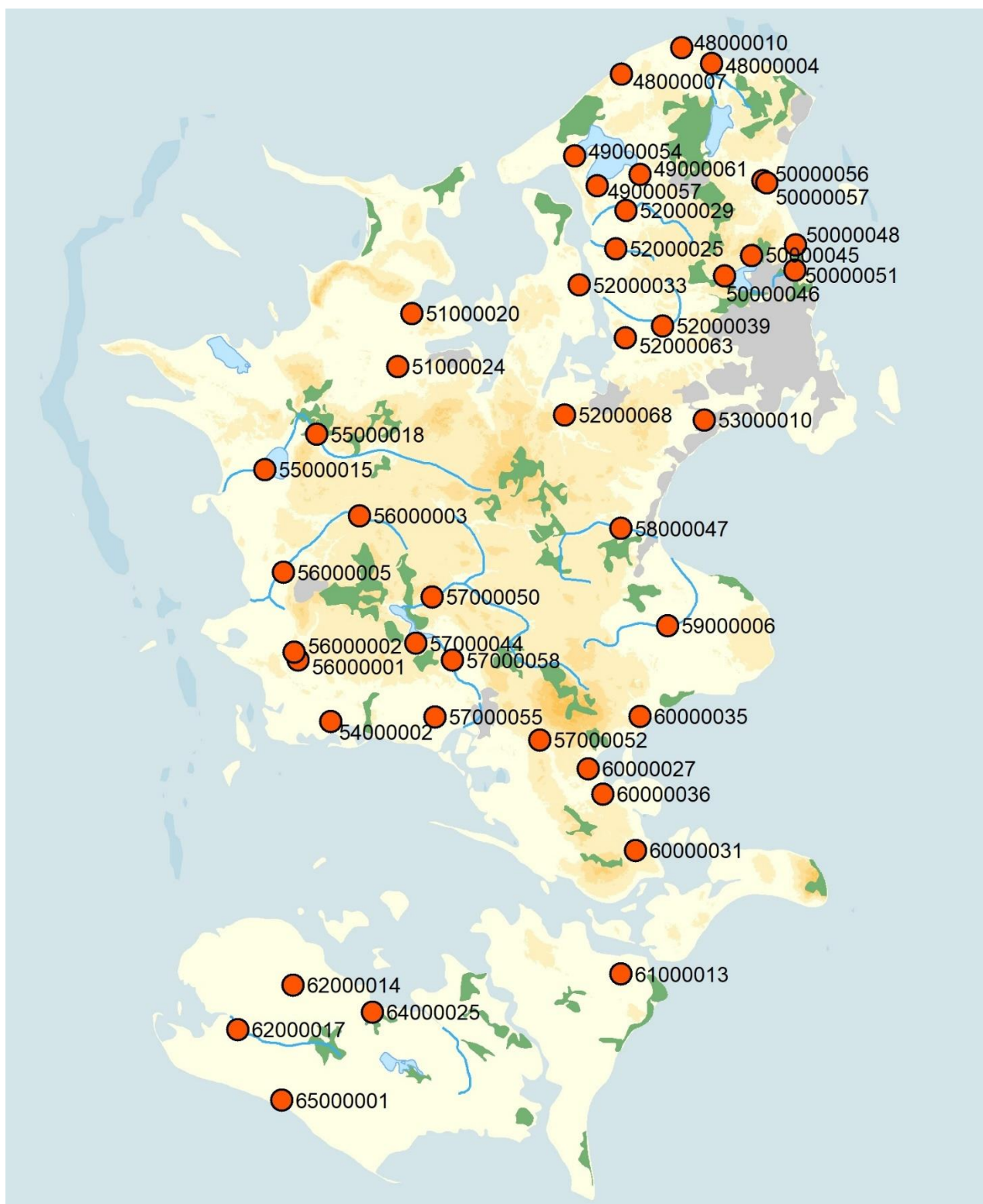
64000025 - NÆLDEVADS Å



65000001 - HOVEDKANAL, 39

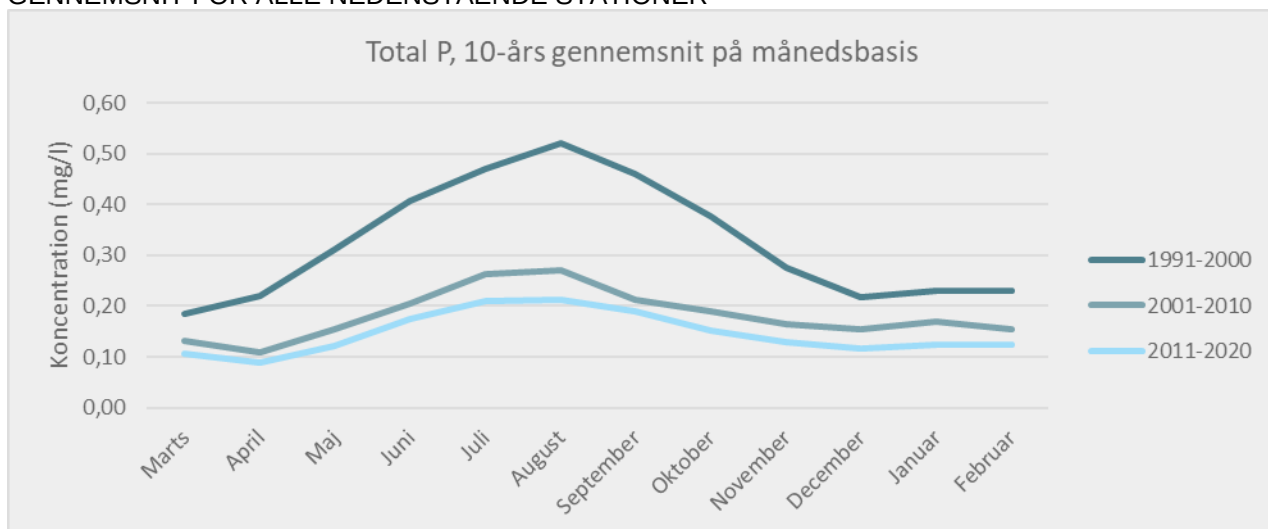


1.4 Total P

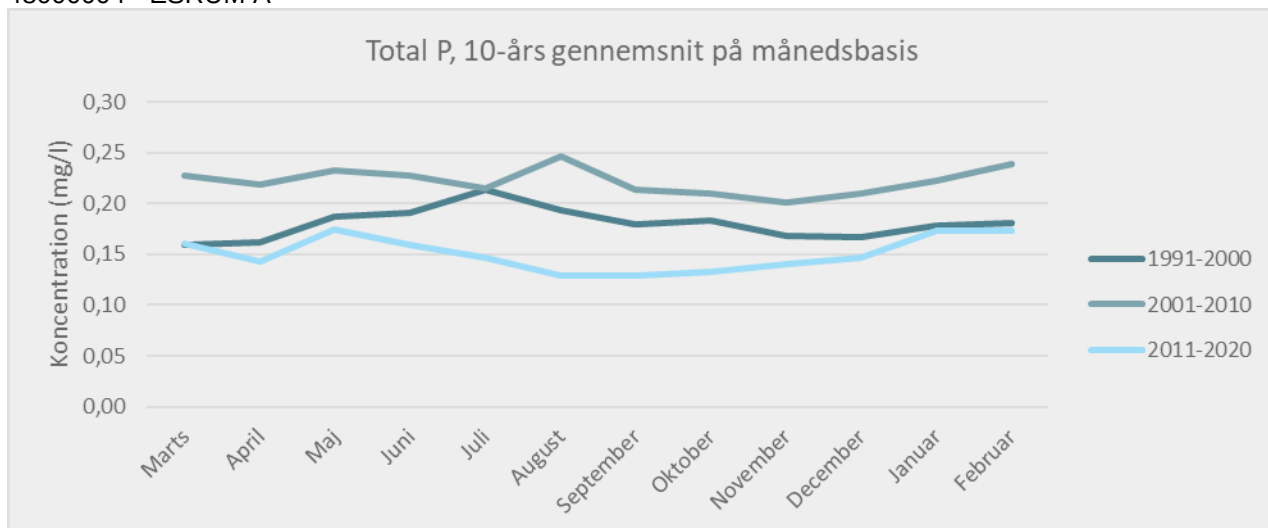


Geografisk placering af de 44 nedenstående målestationer udvalgt for total P

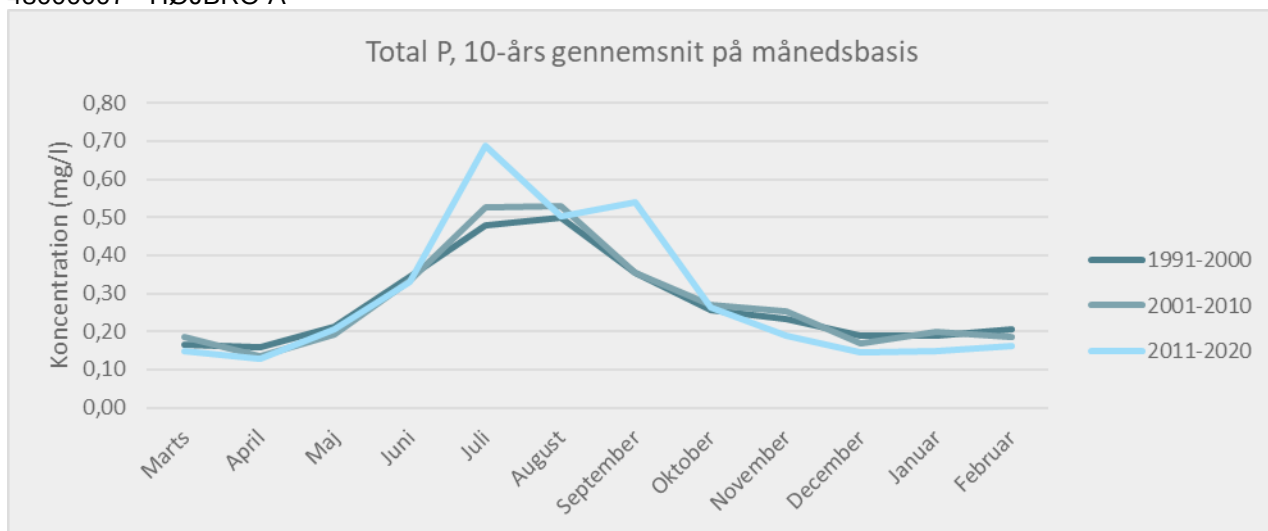
GENNEMSNIET FOR ALLE NEDENSTÅENDE STATIONER



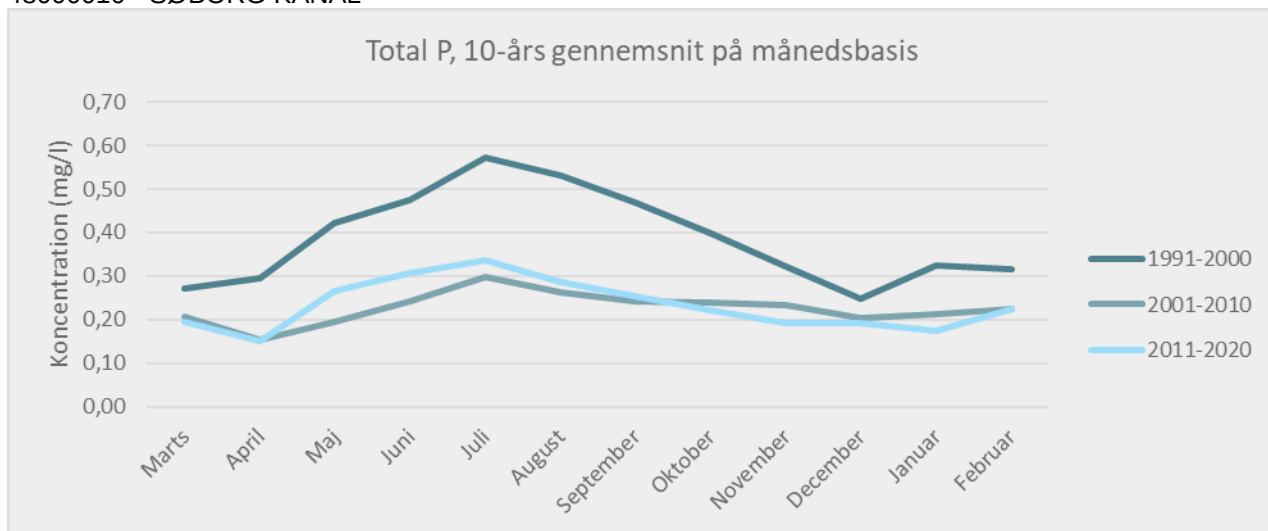
48000004 - ESRUM Å



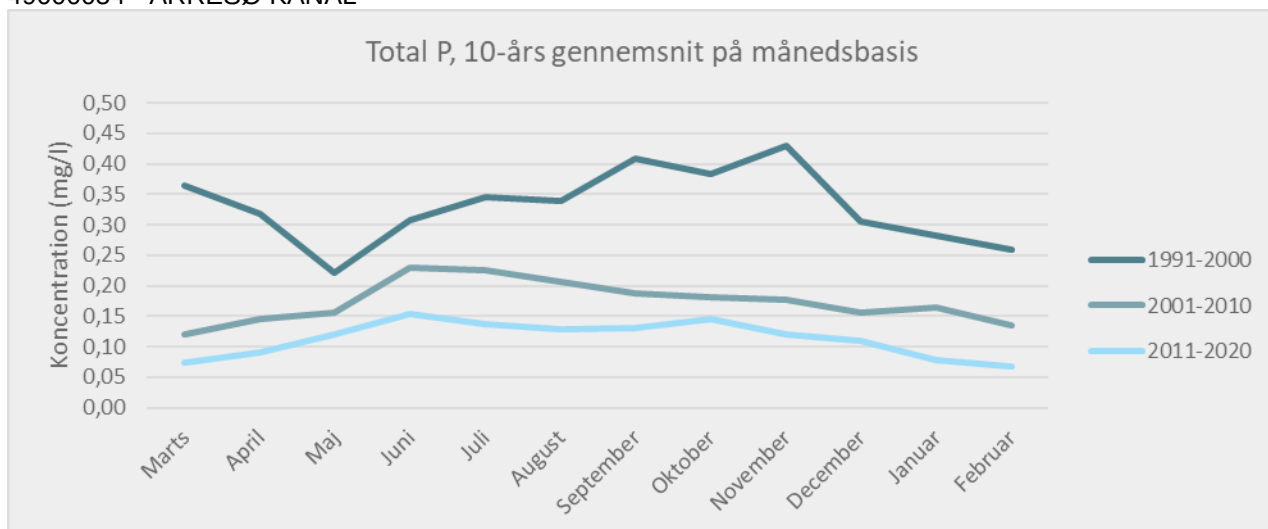
48000007 - HØJBRO Å



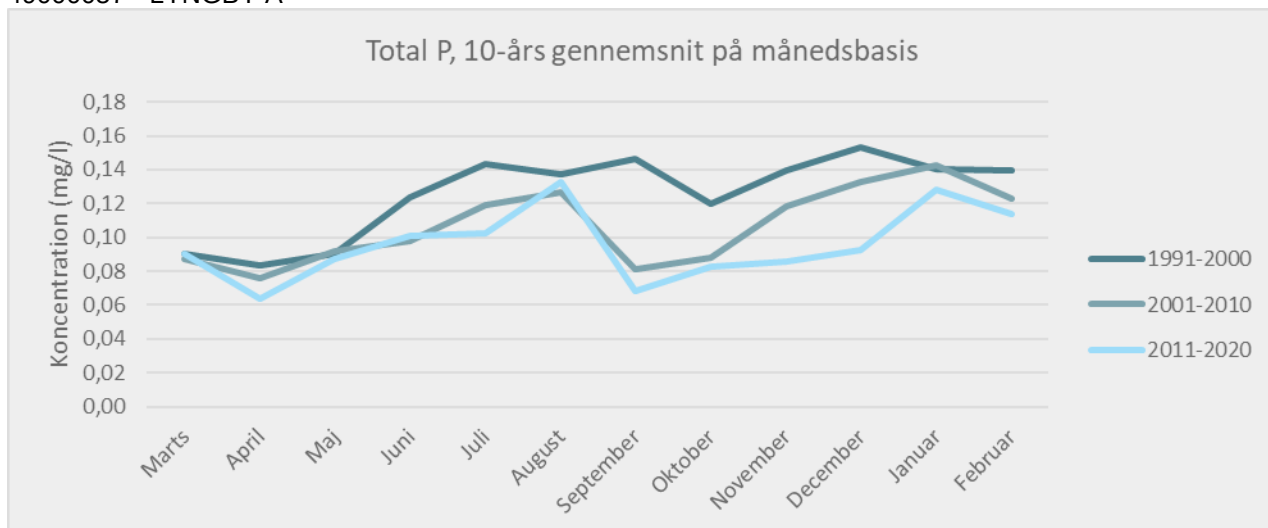
48000010 - SØBORG KANAL



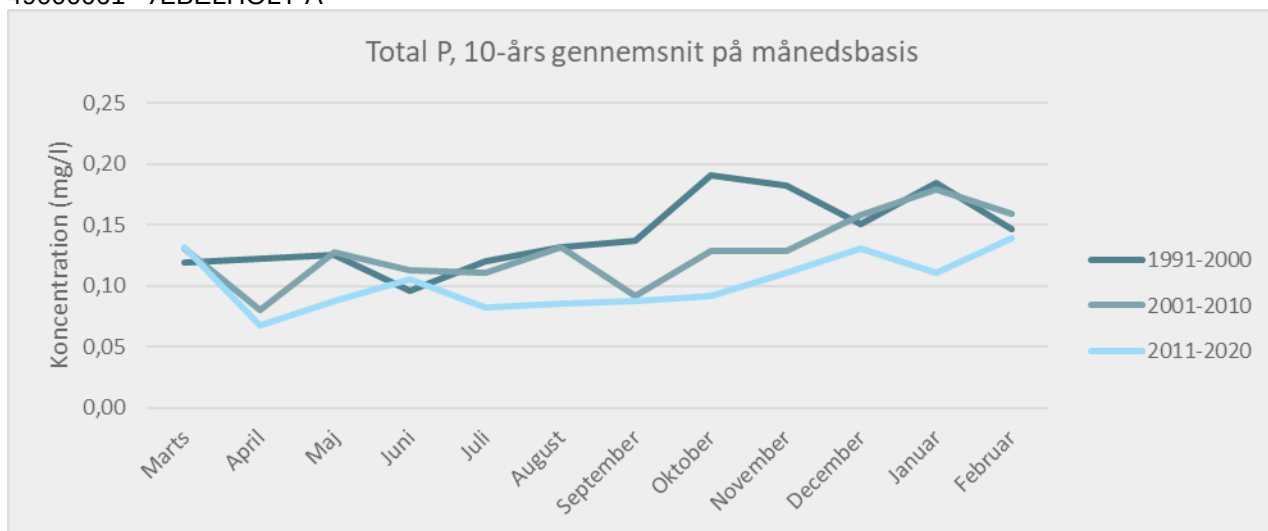
49000054 - ARRESØ KANAL



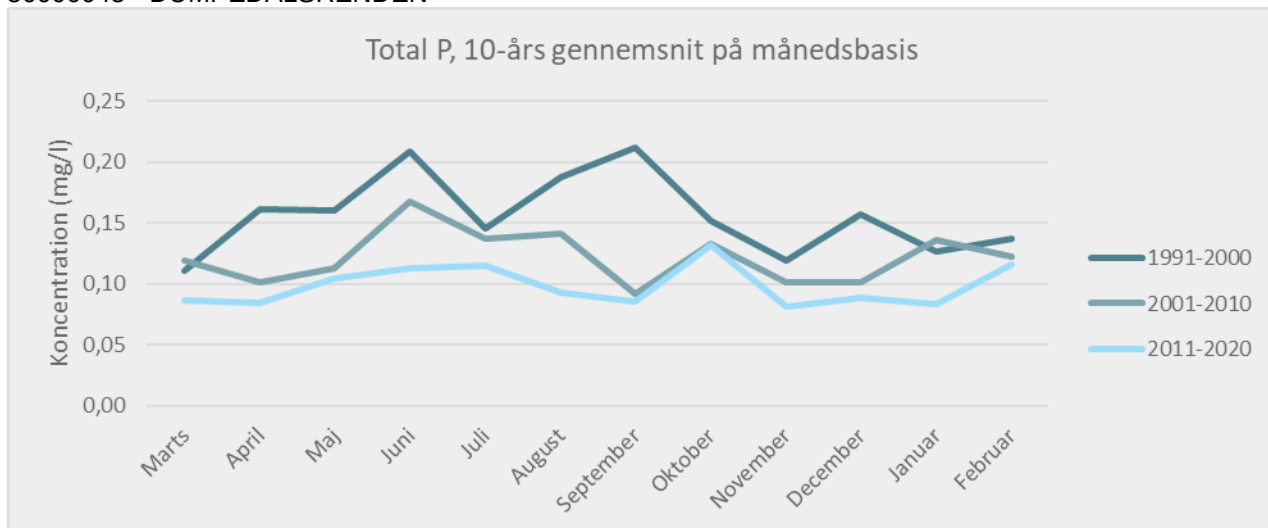
49000057 - LYNGBY Å



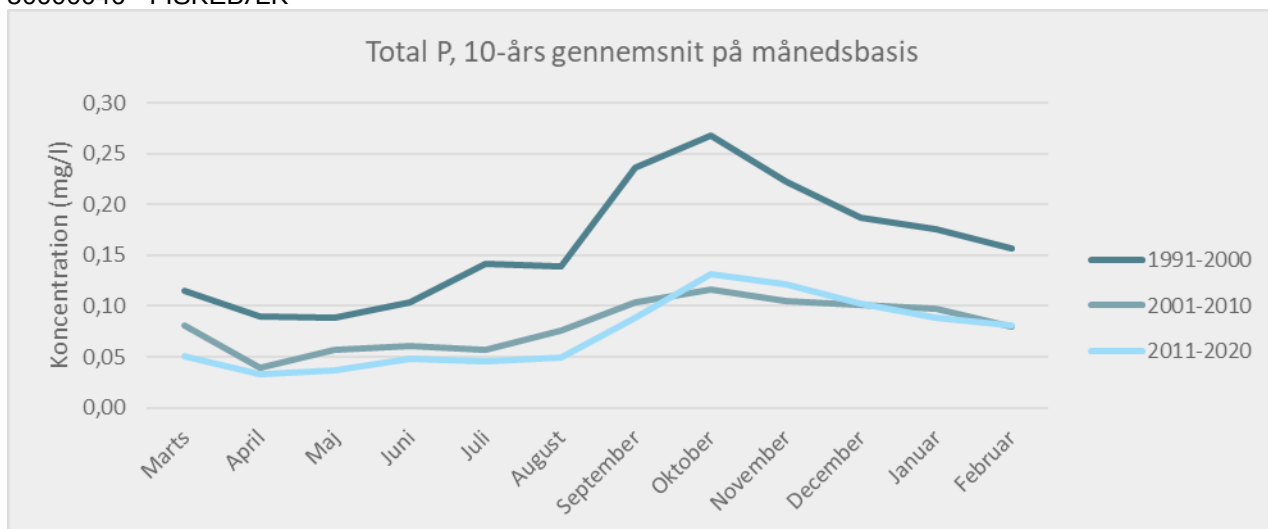
49000061 - ÆBELHOLT Å



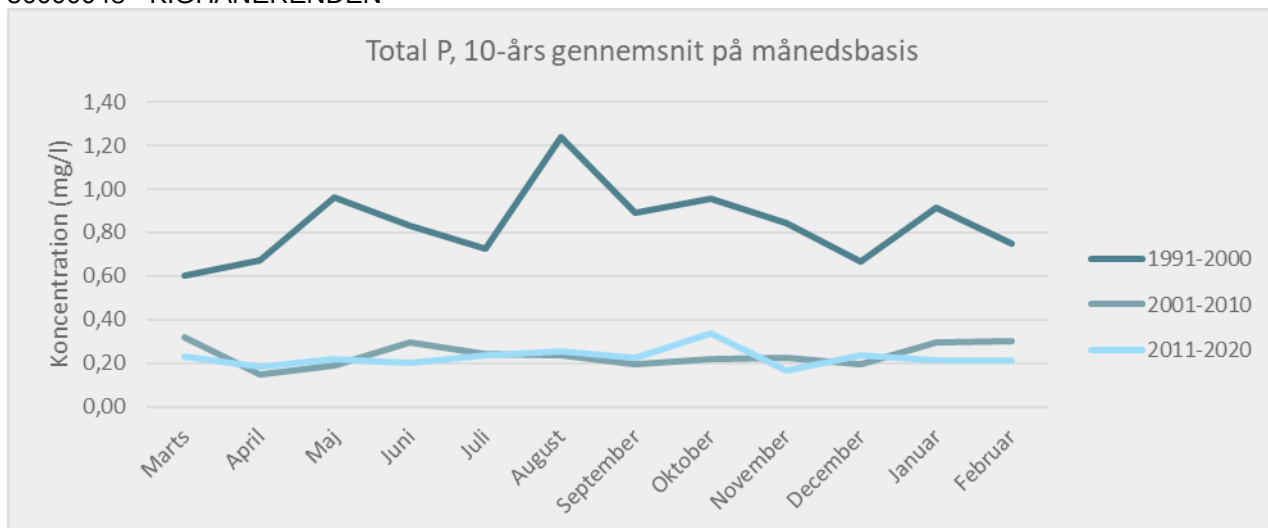
50000045 - DUMPEDALSRENDEN



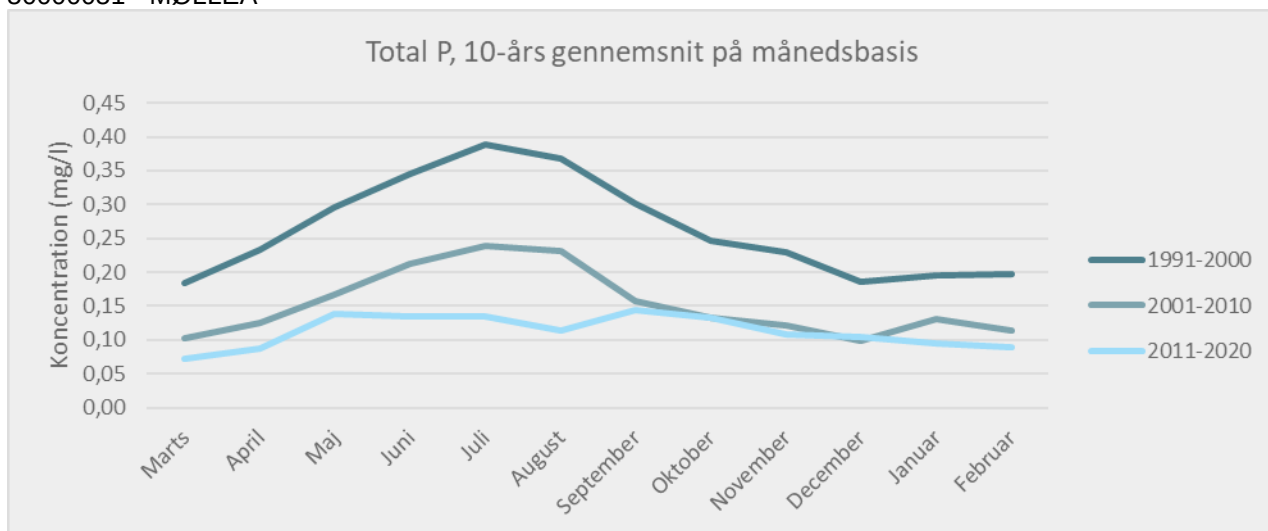
50000046 - FISKEBÆK



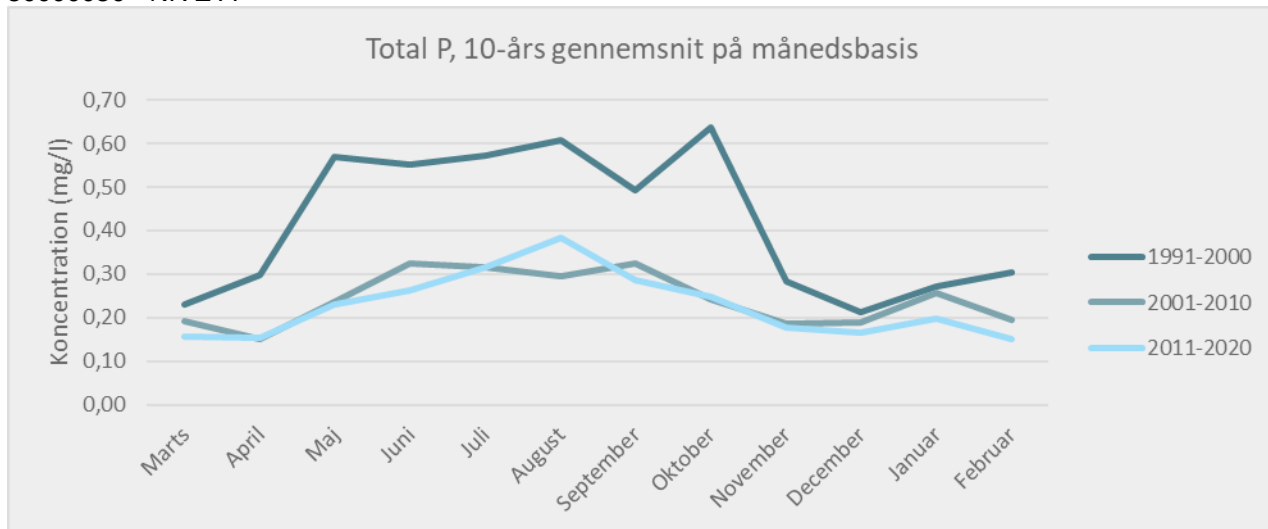
50000048 - KIGHANERENDEN



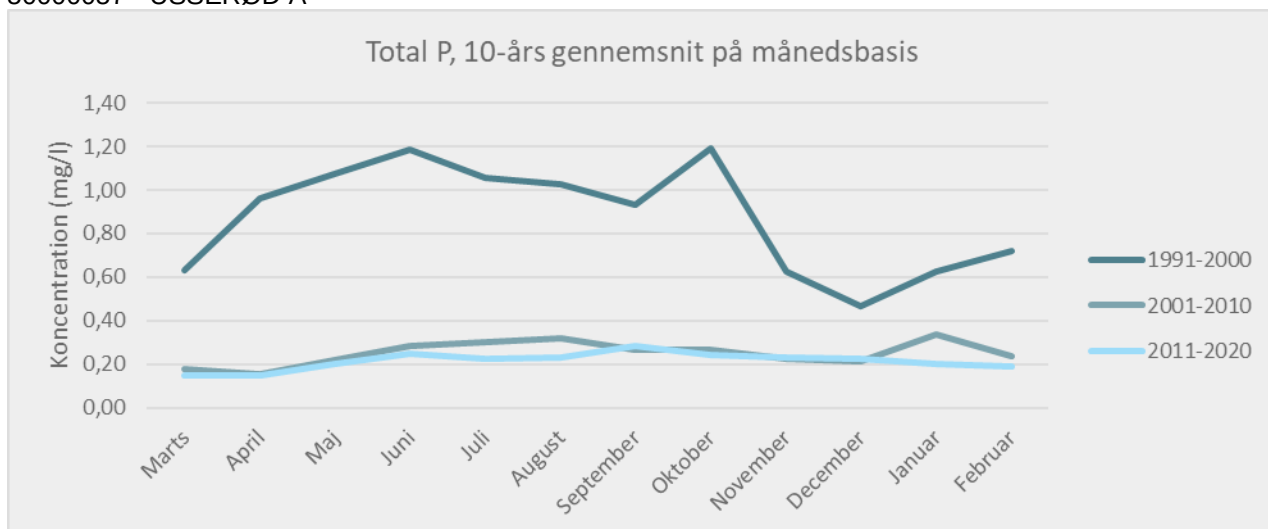
50000051 - MØLLEÅ



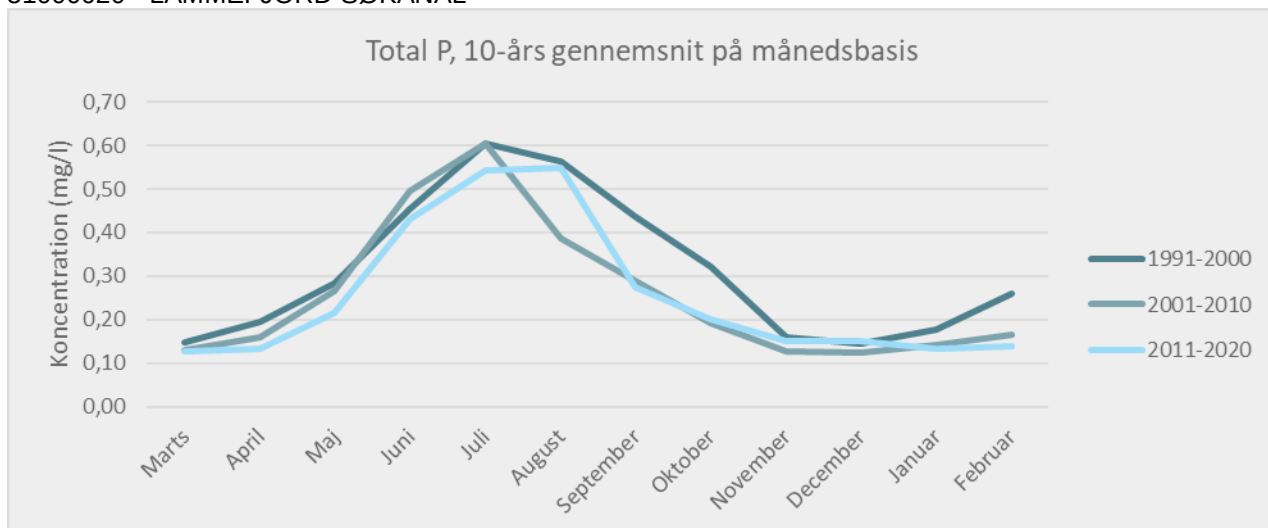
50000056 - NIVE Å



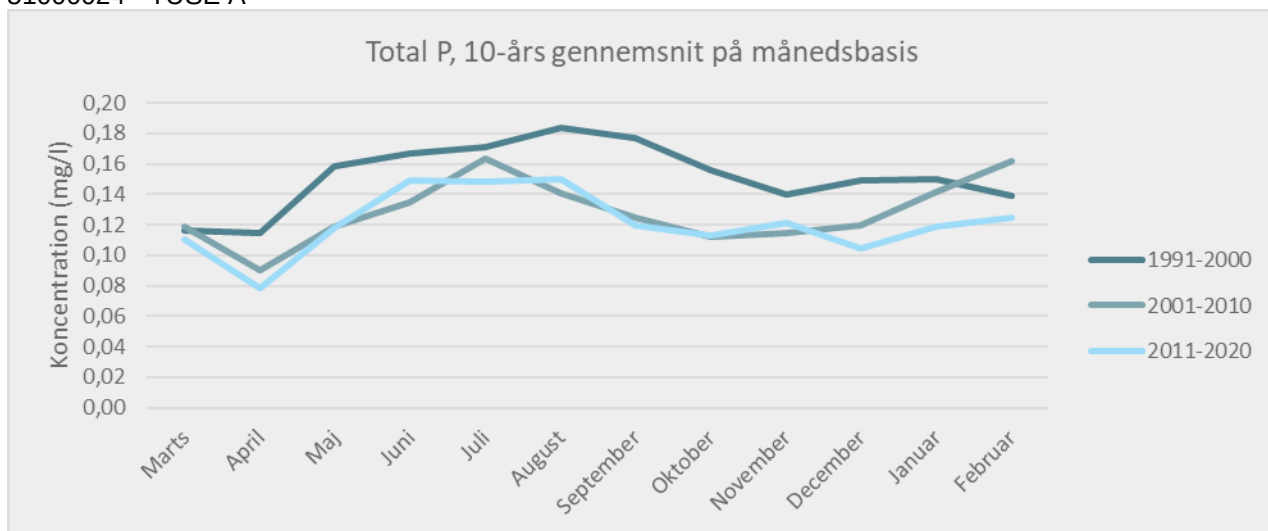
50000057 - USSERØD Å



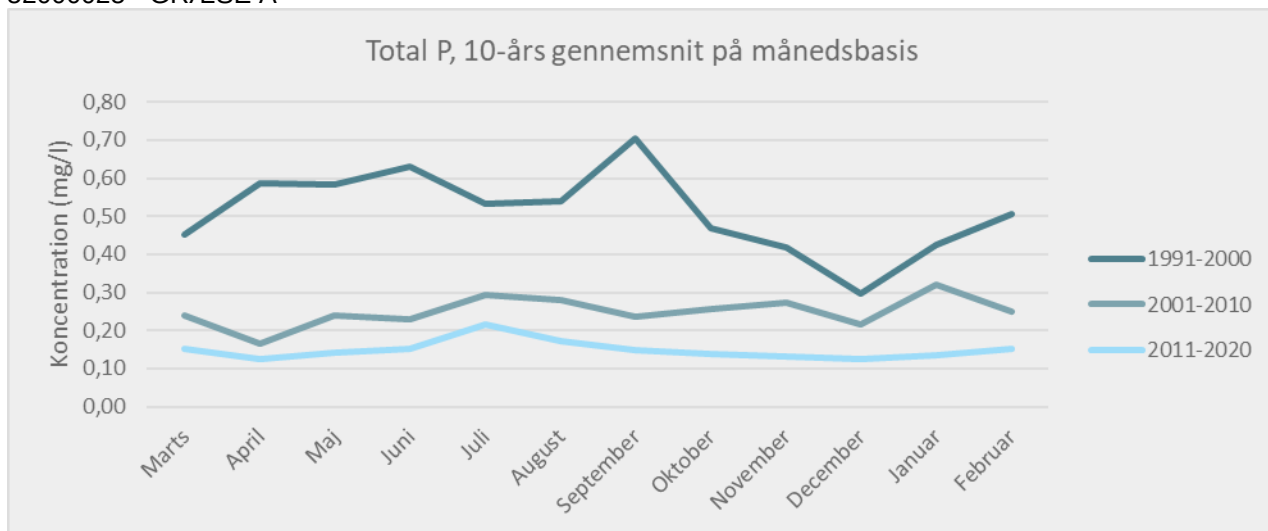
51000020 - LAMMEFJORD SØKANAL



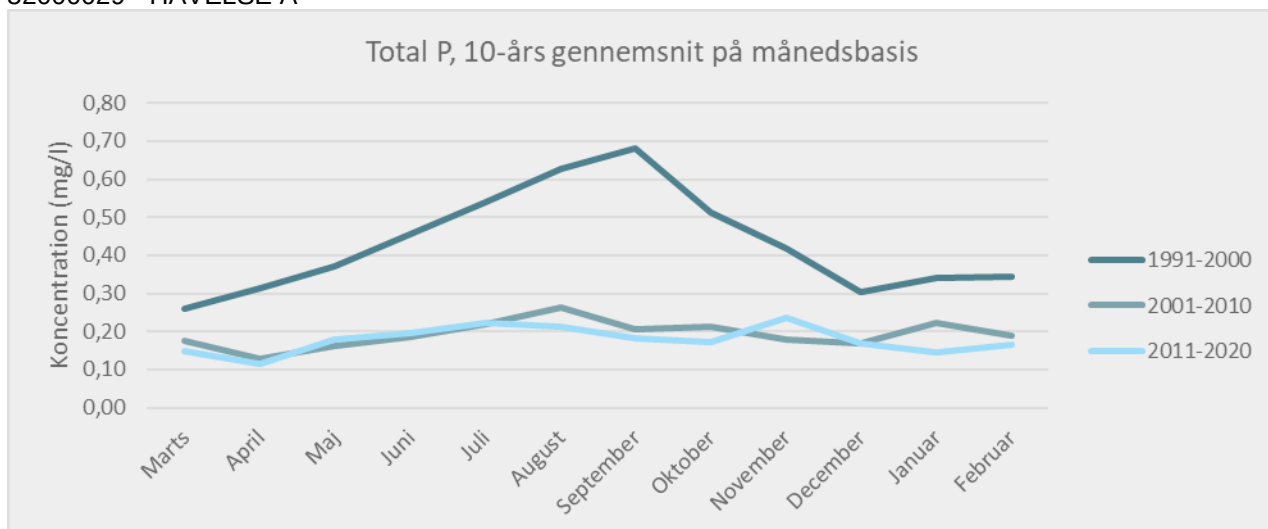
51000024 - TUSE Å



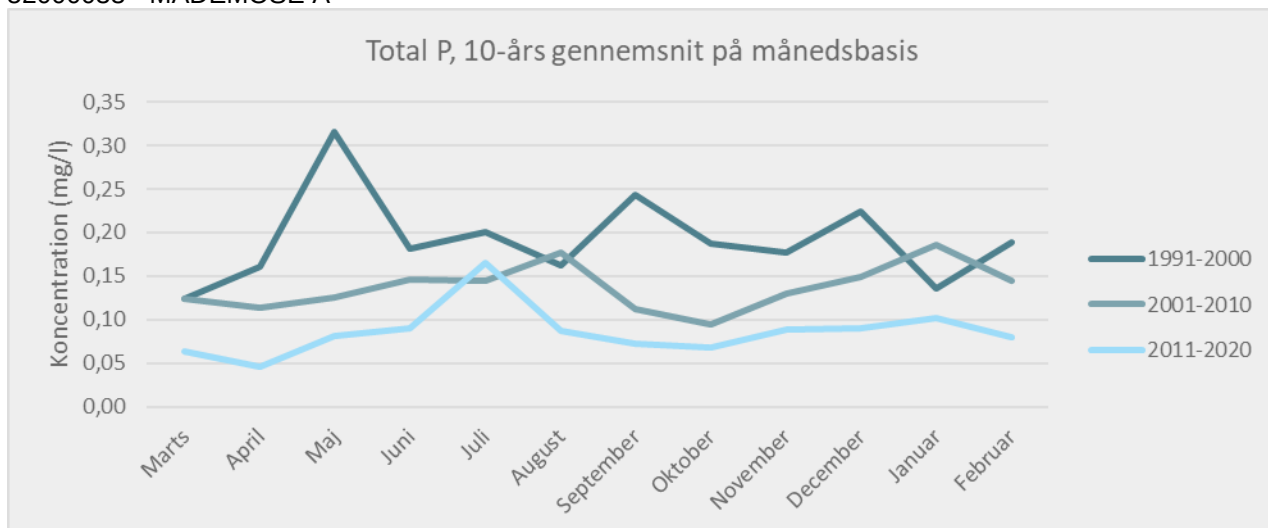
52000025 - GRÆSE Å



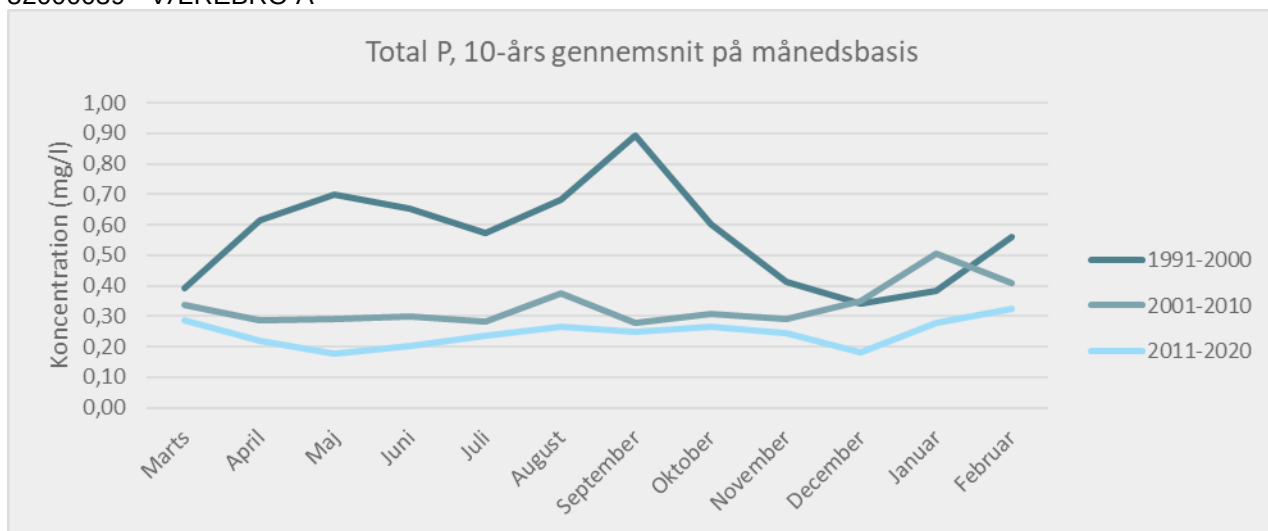
52000029 - HAVELSE Å



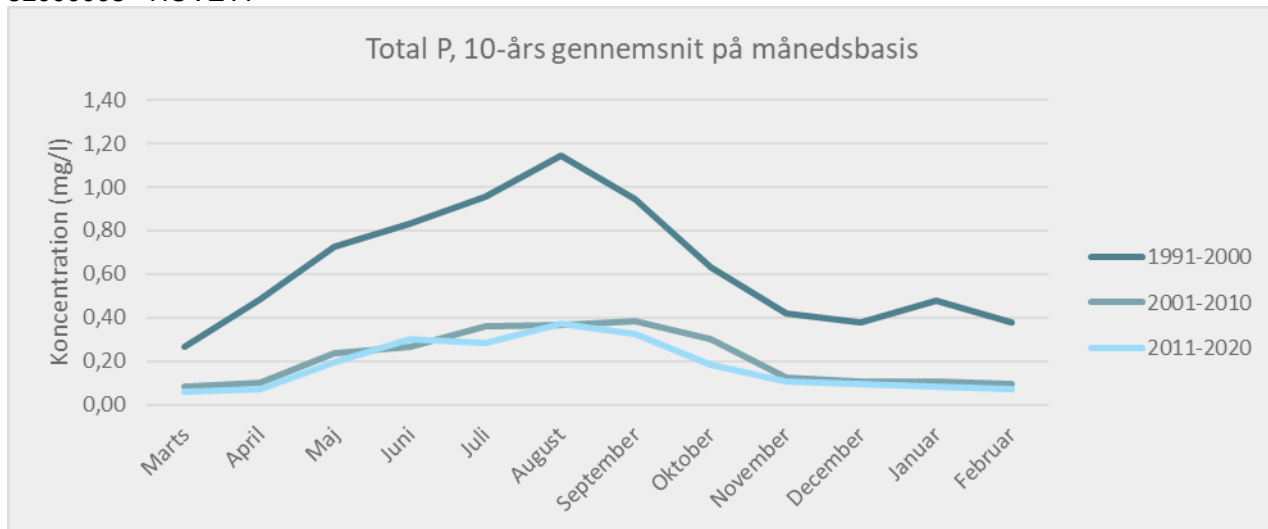
52000033 - MADEMOSE Å



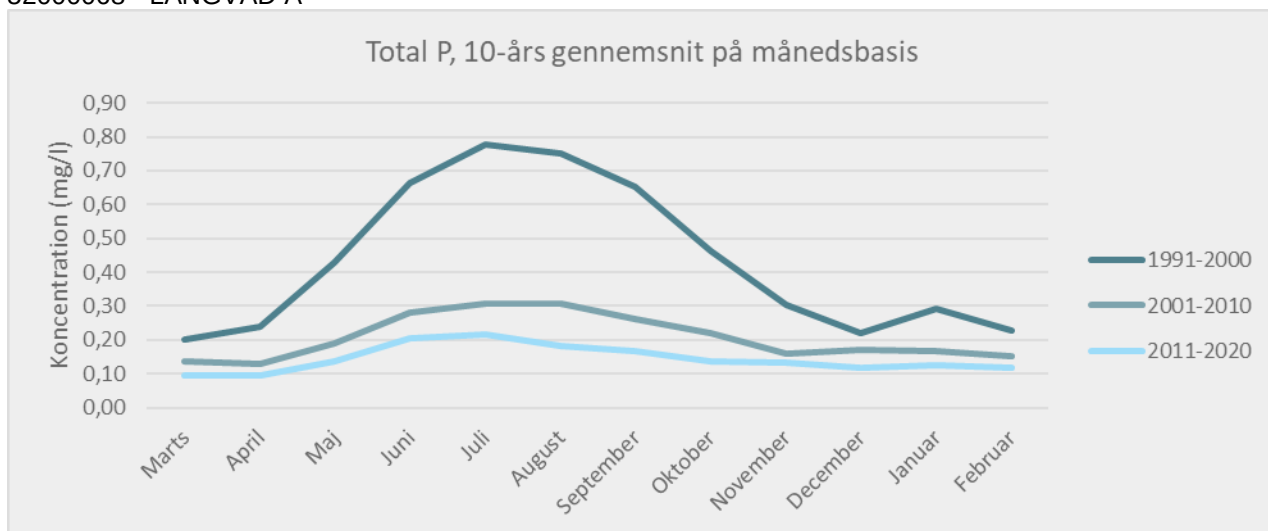
52000039 - VÆREBRO Å



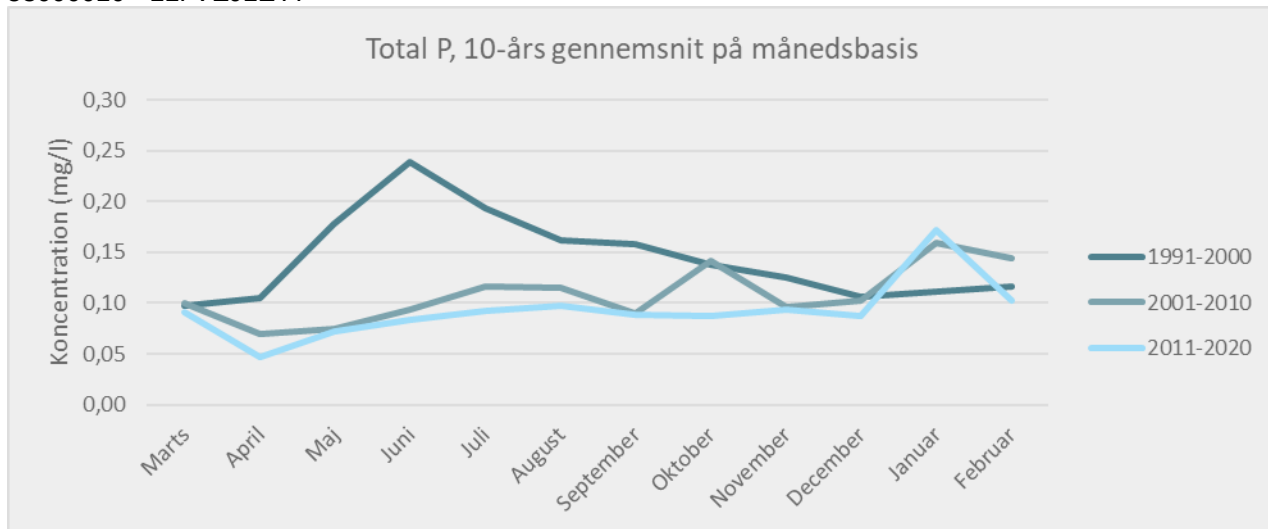
52000063 - HOVE Å



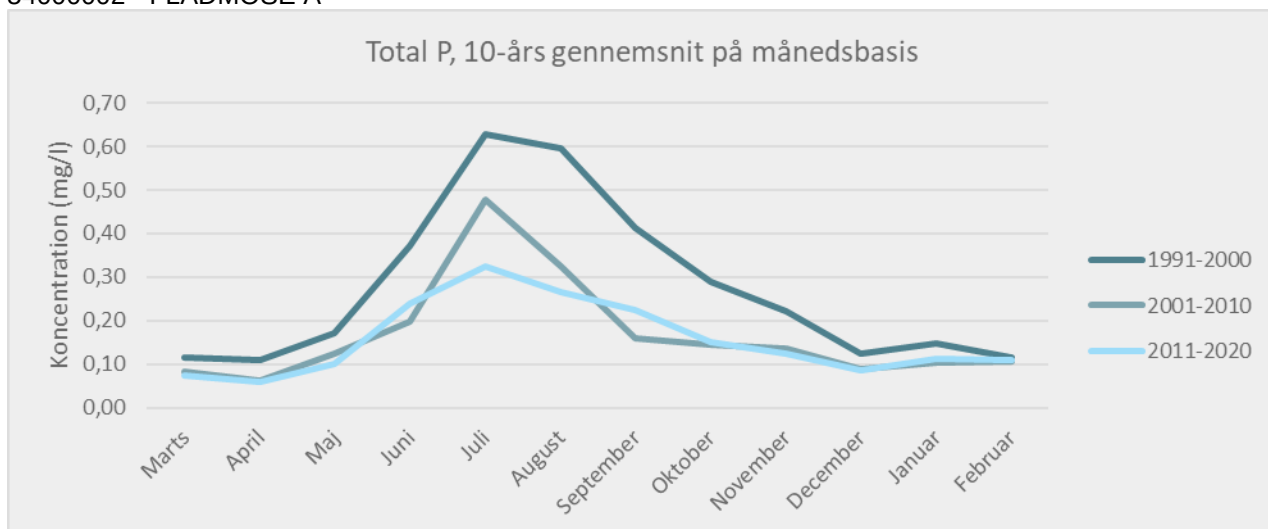
52000068 - LANGVAD Å



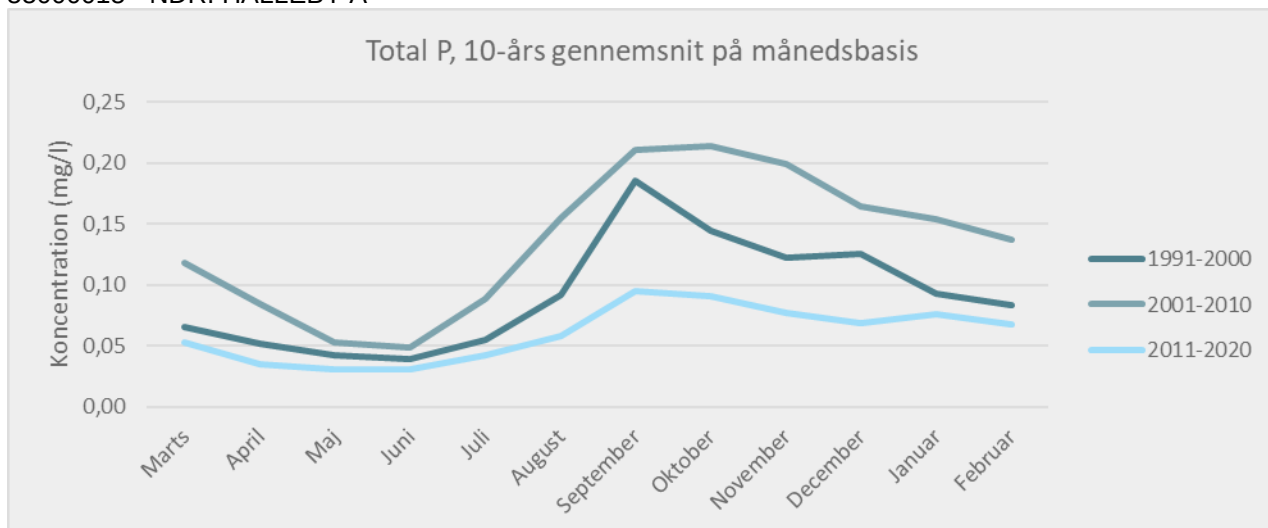
53000010 - LL. VEJLE Å



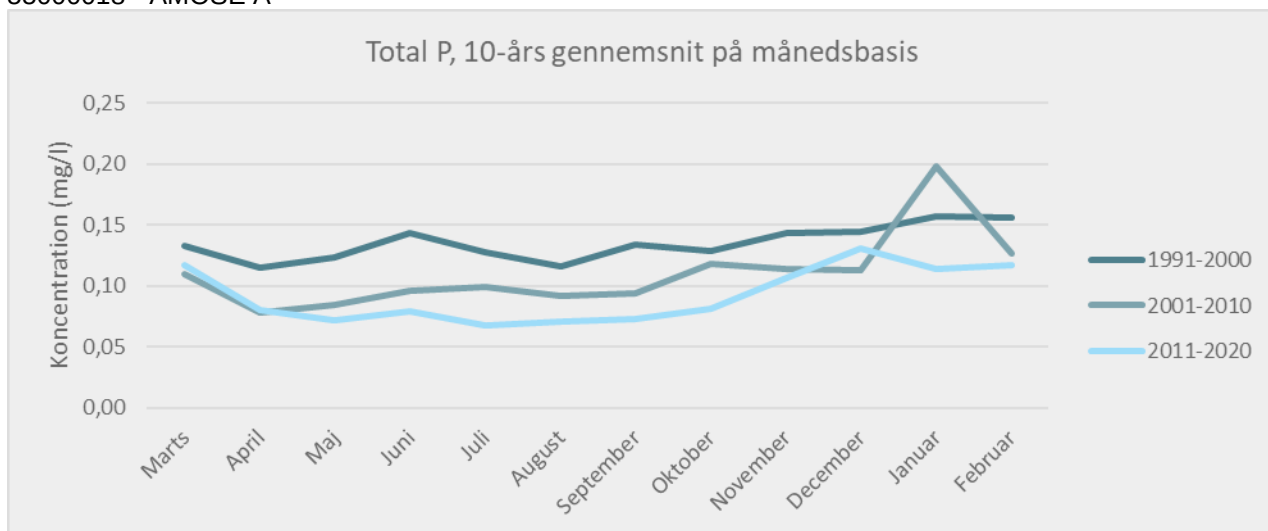
54000002 - FLADMOSE Å



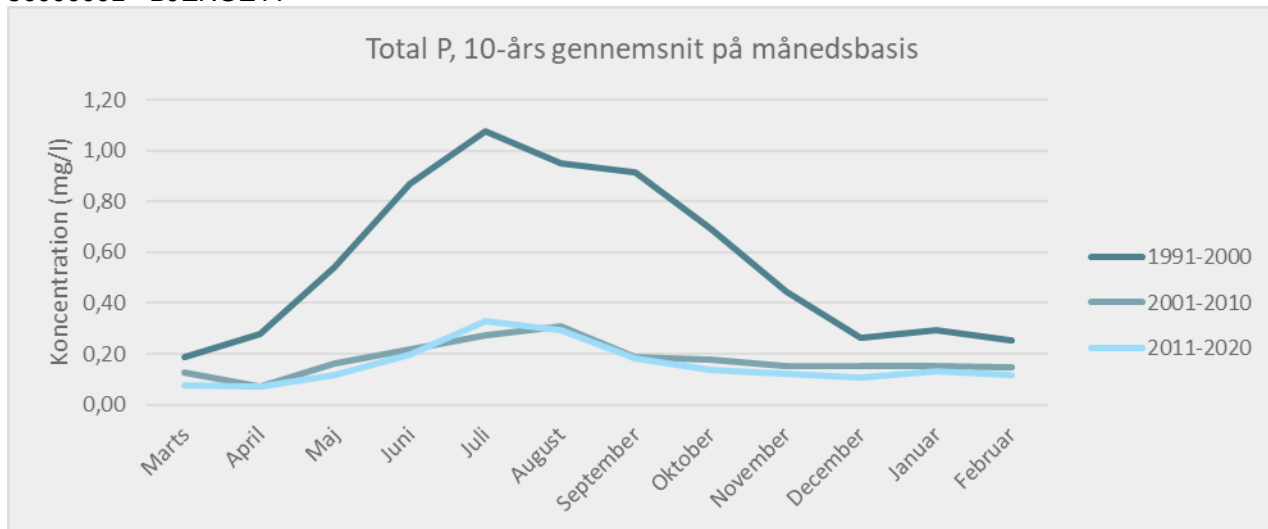
55000015 - NDR. HALLEBY Å



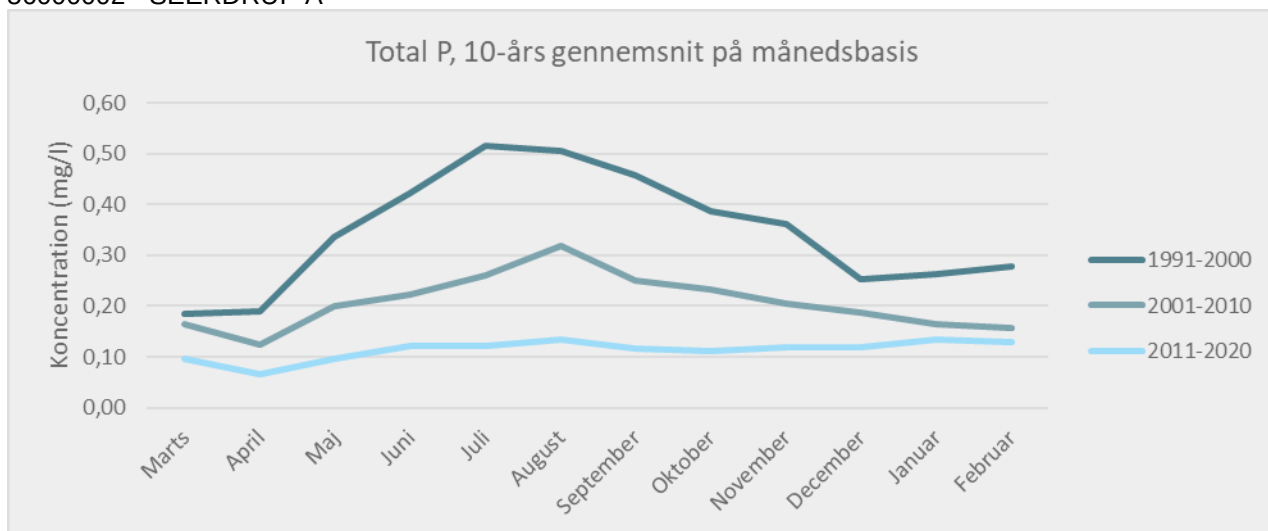
55000018 - ÅMOSE Å



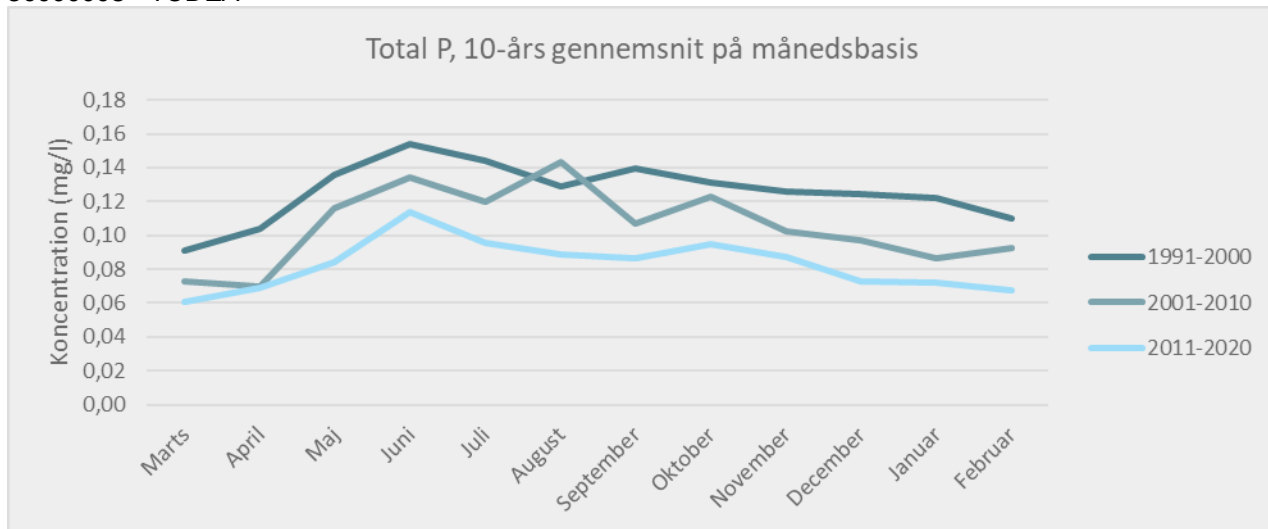
56000001 - BJERGE Å



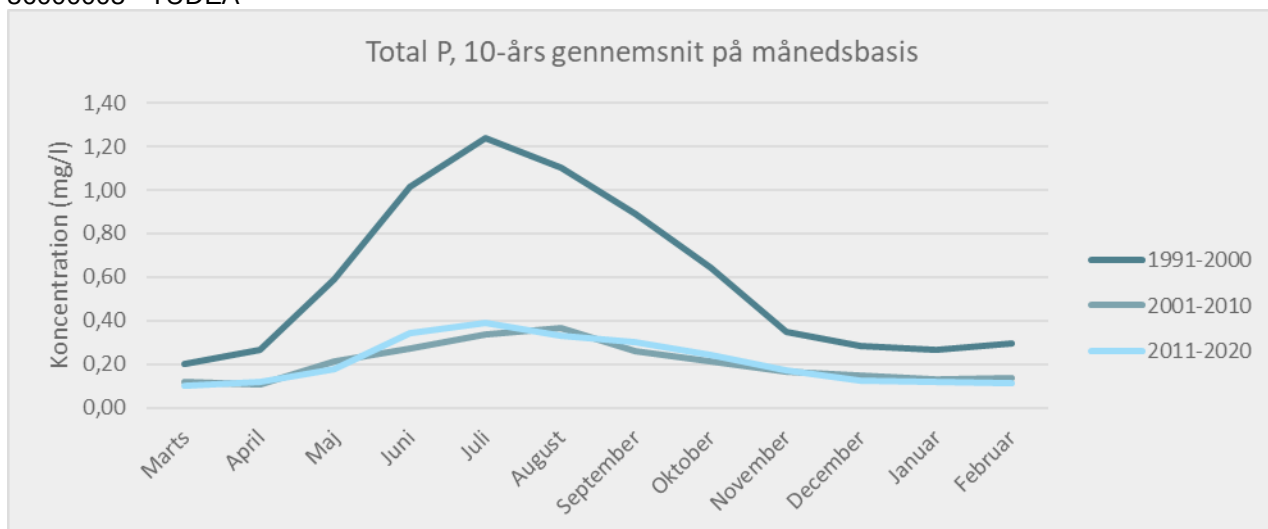
56000002 - SEERDRUP Å



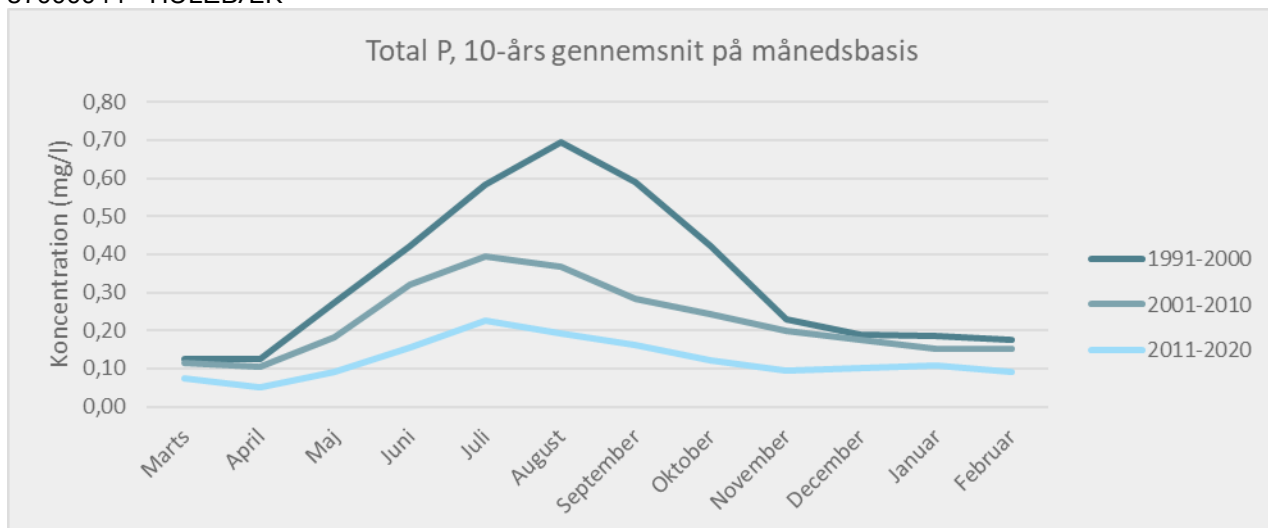
56000003 - TUDEÅ



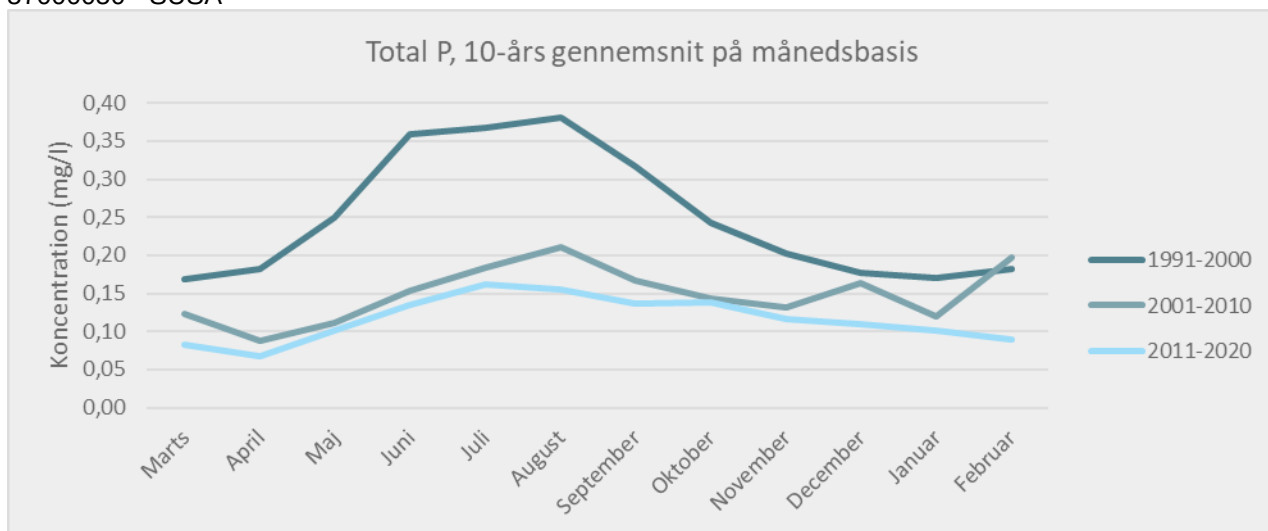
56000005 - TUDEÅ



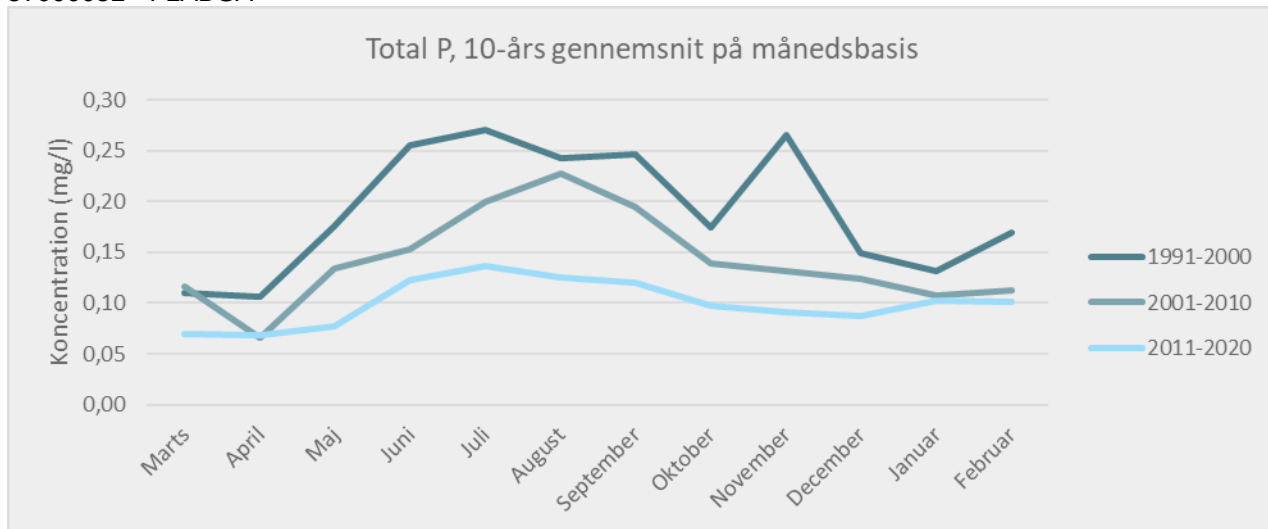
57000044 - HULEBÆK



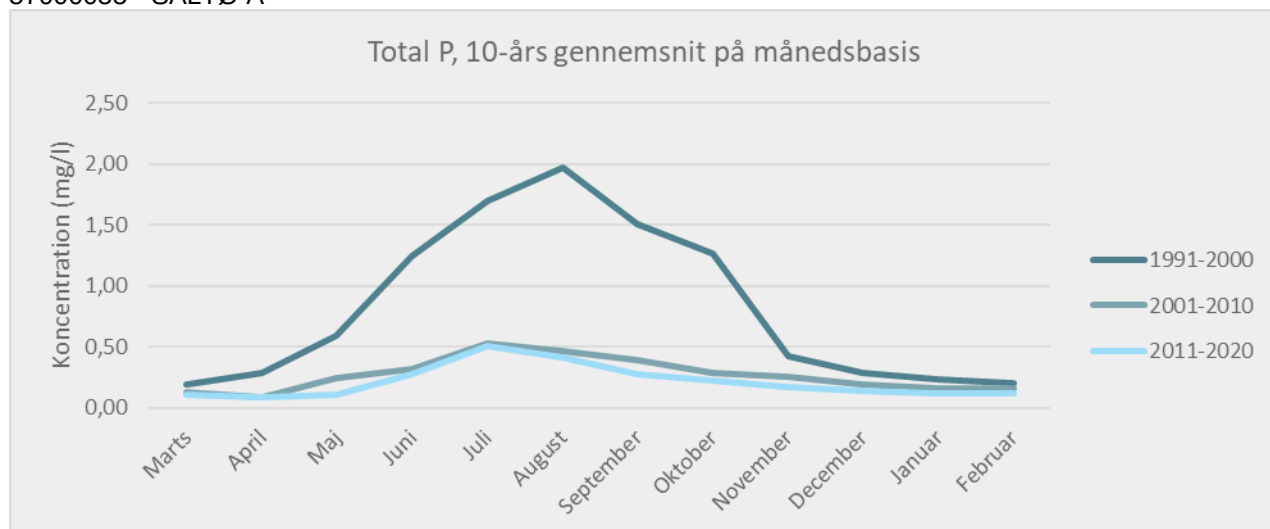
57000050 - SUSÅ



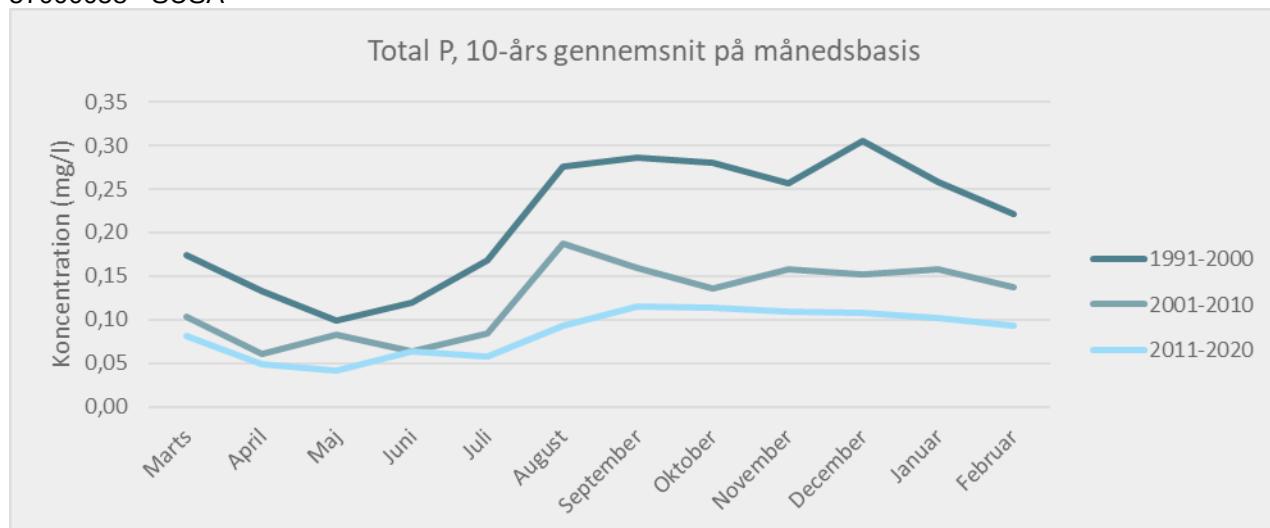
57000052 - FLADSÅ



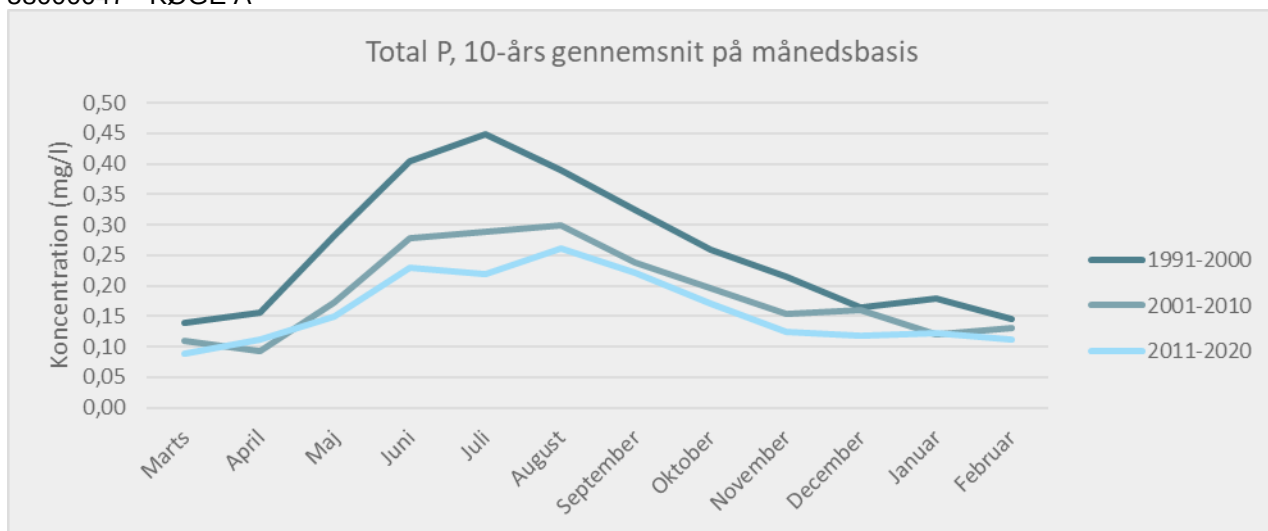
57000055 - SALTØ Å



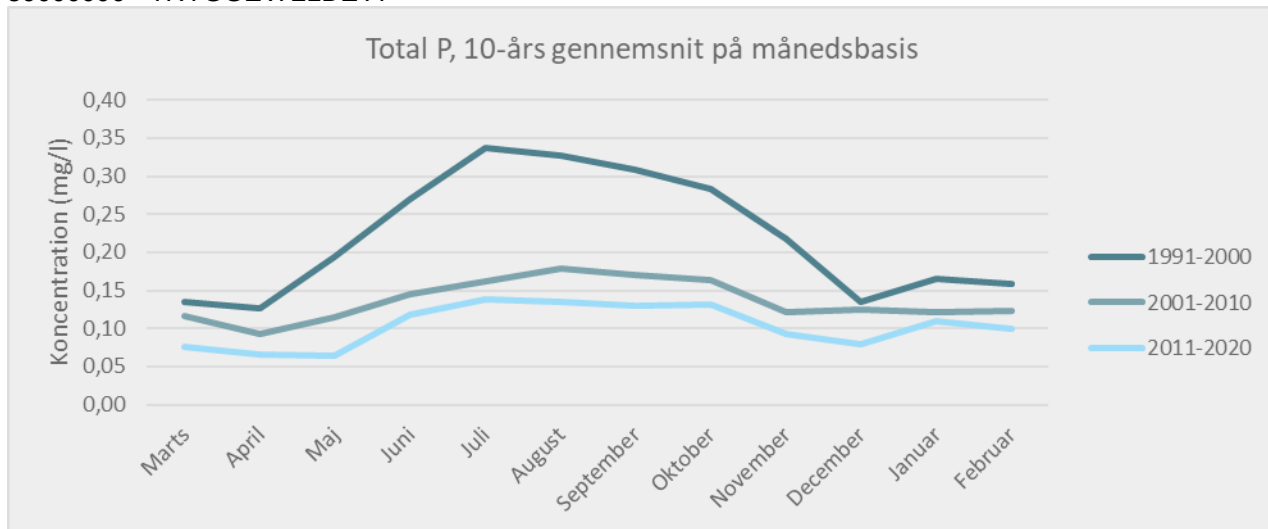
57000058 - SUSÅ



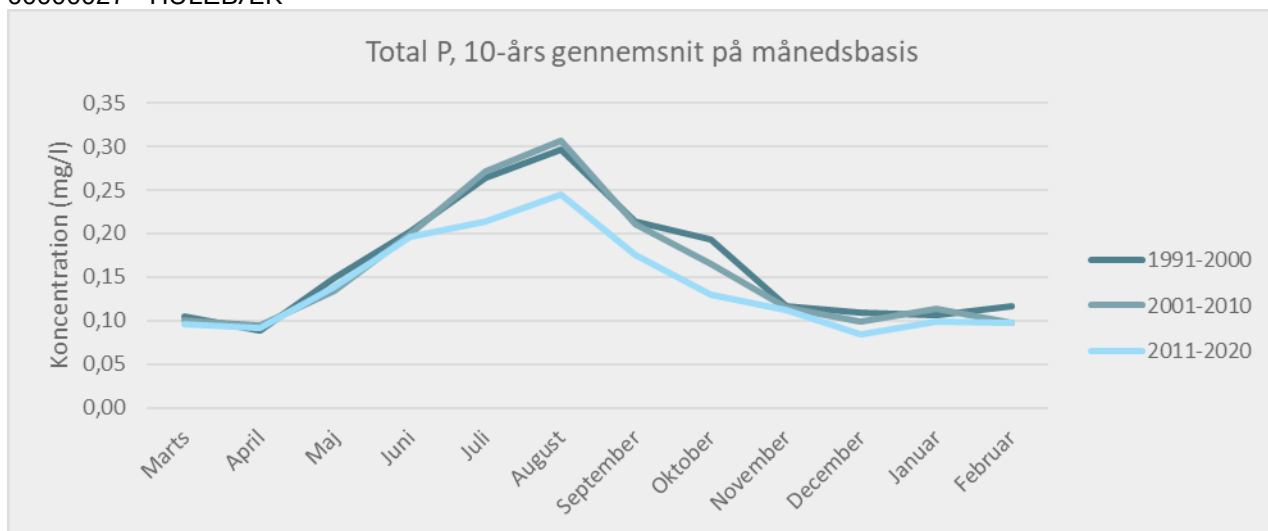
58000047 - KØGE Å



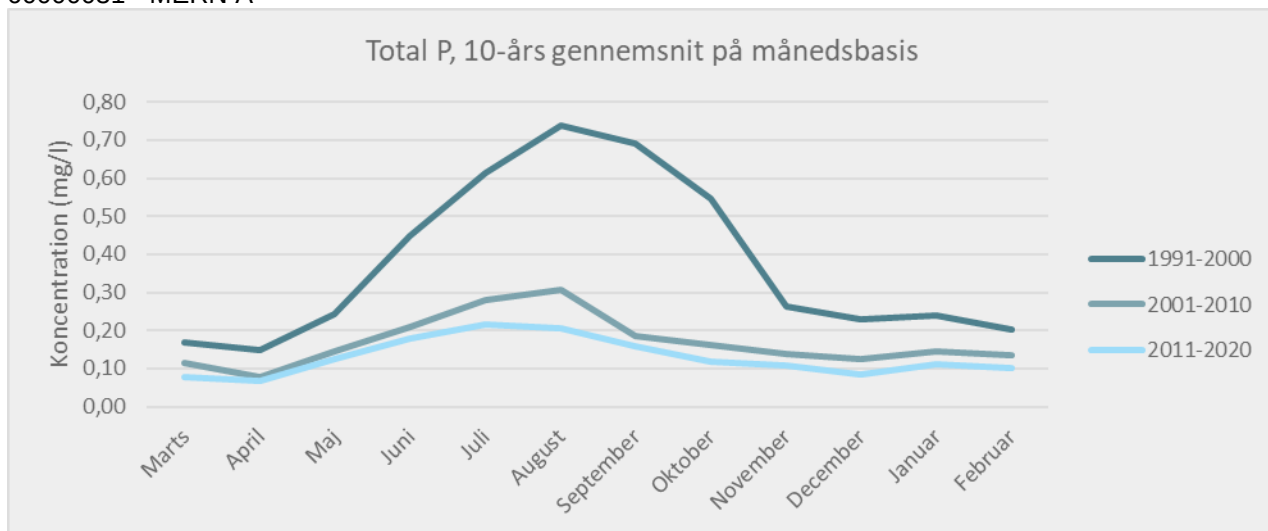
59000006 - TRYGGEVÆLDE Å



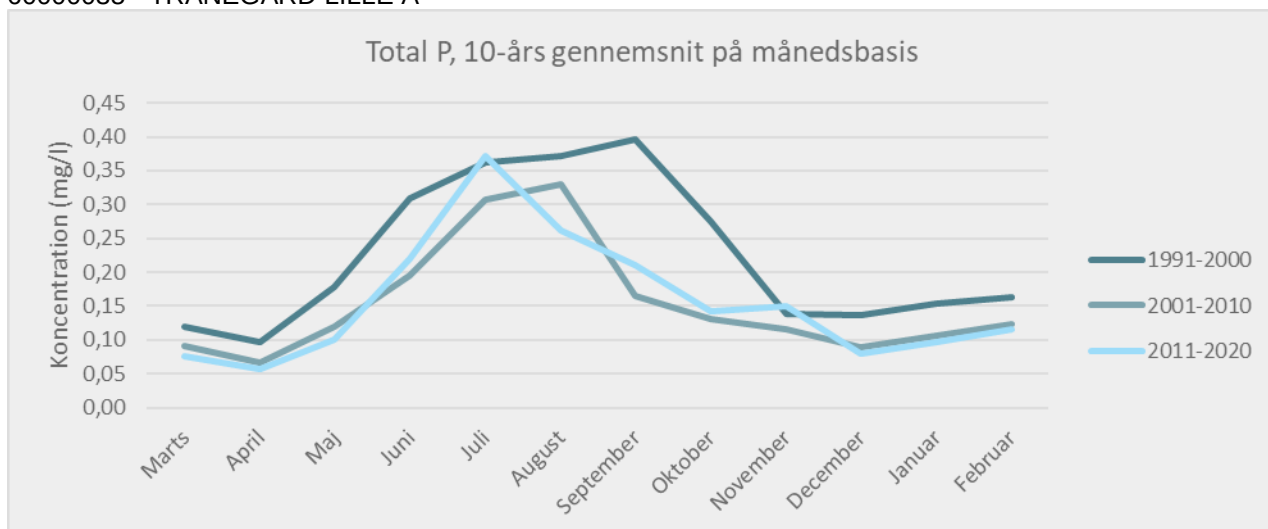
60000027 - HULEBÆK



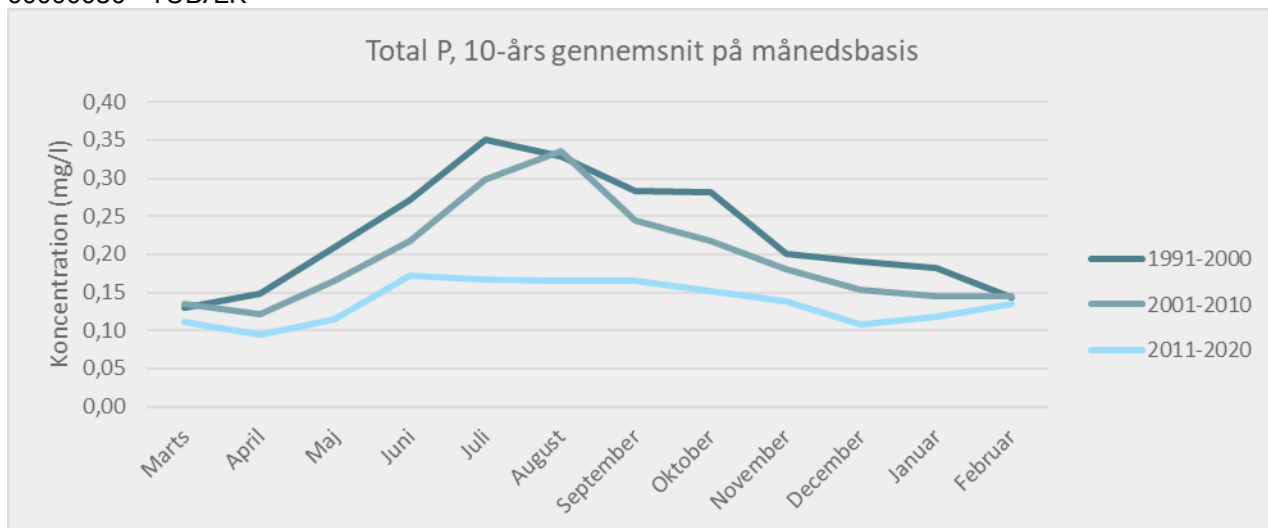
60000031 - MERN Å



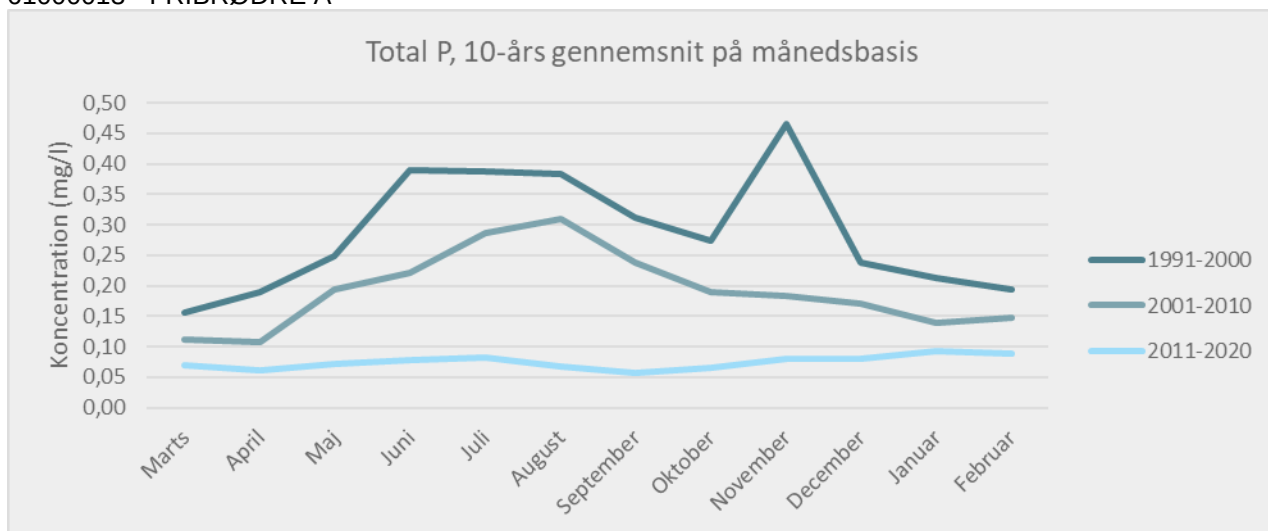
60000035 - TRANEGÅRD LILLE Å



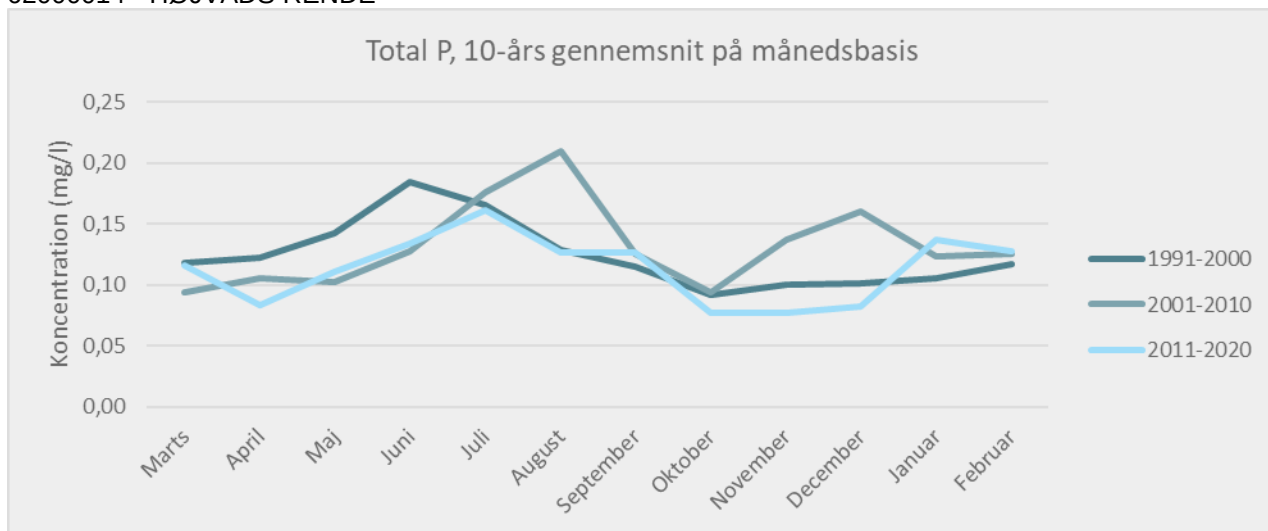
60000036 - TUBÆK



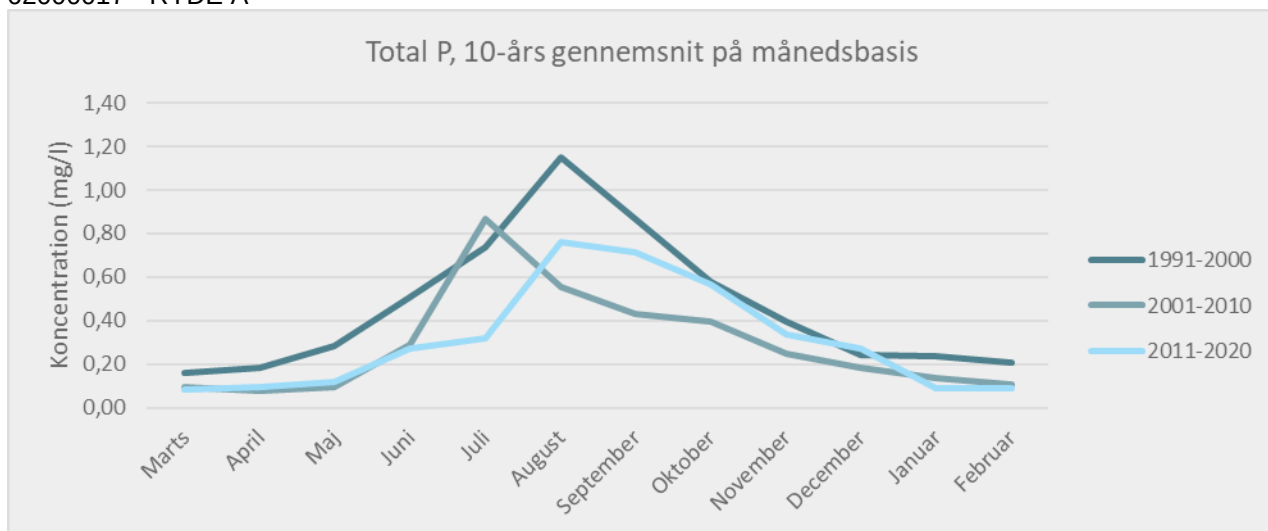
61000013 - FRIBRØDRE Å



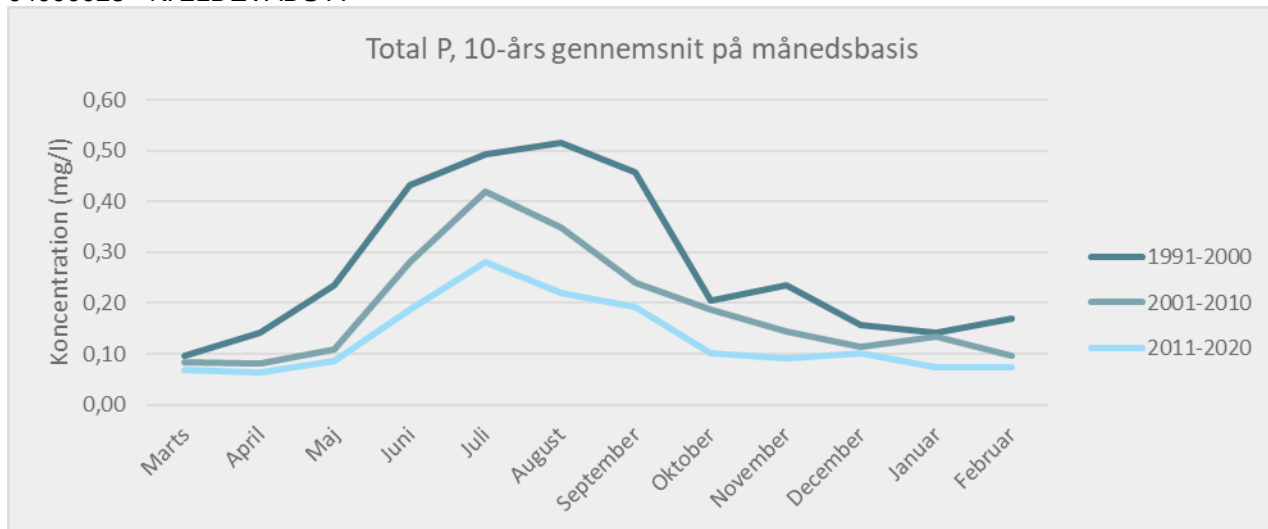
62000014 - HØJVADS RENDE

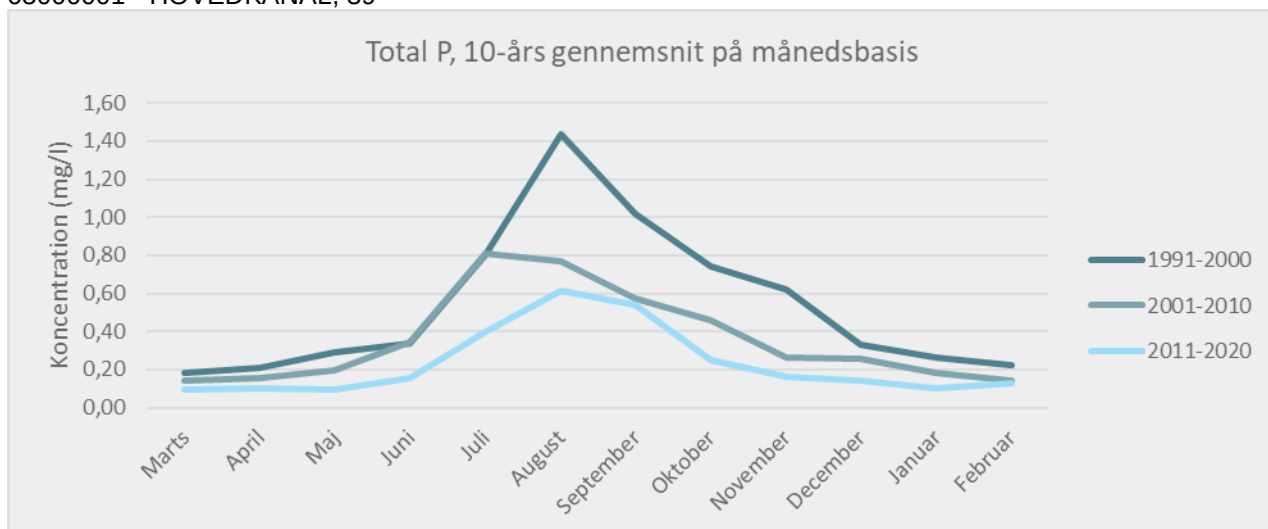


62000017 - RYDE Å

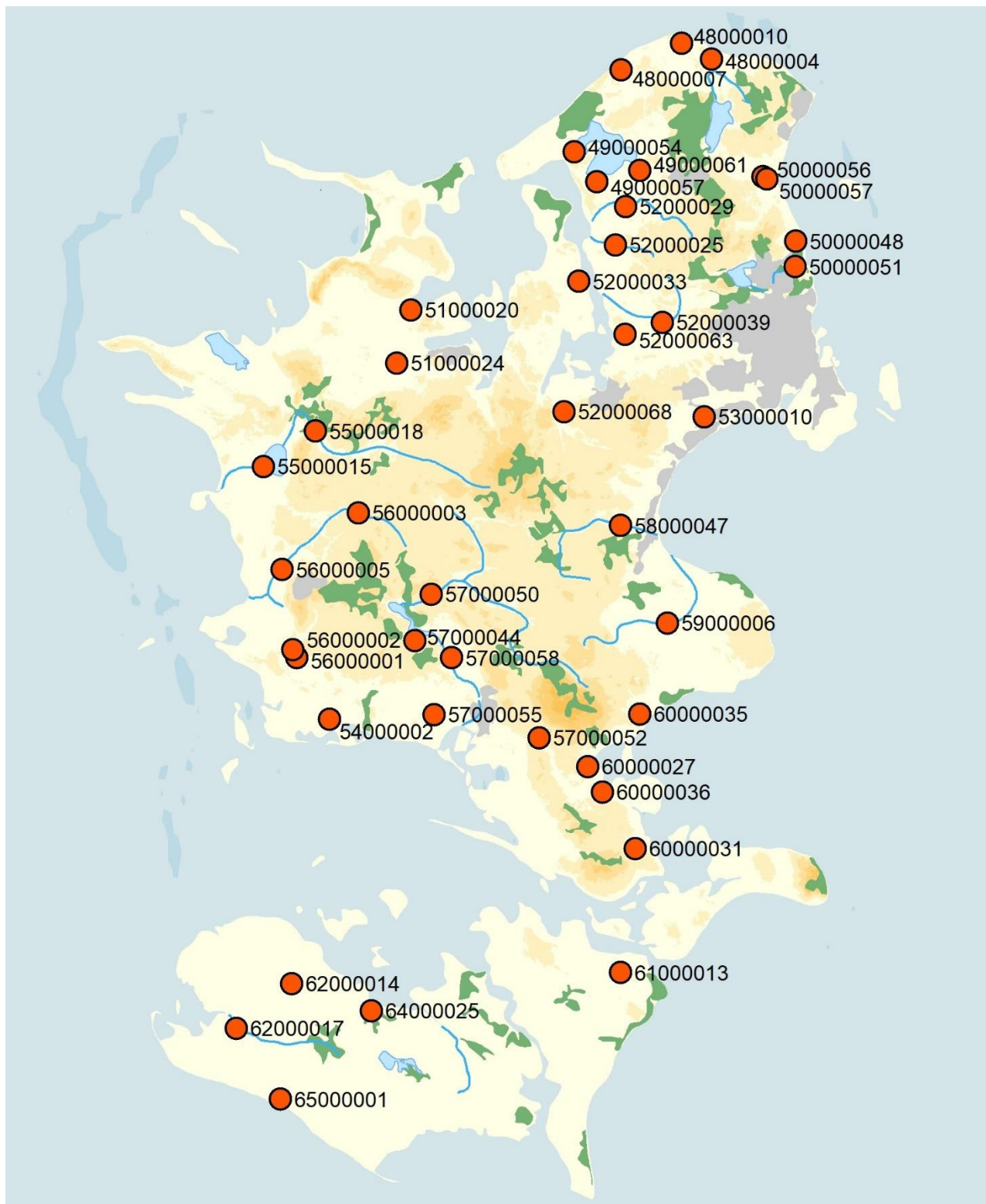


64000025 - NÆLDEVADS Å

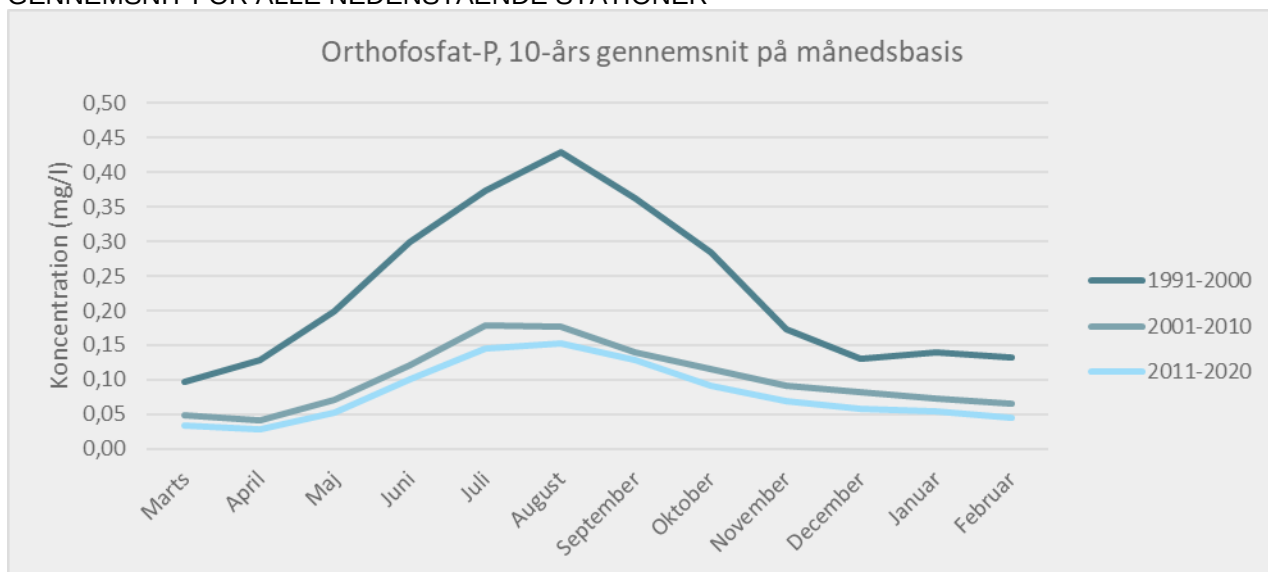




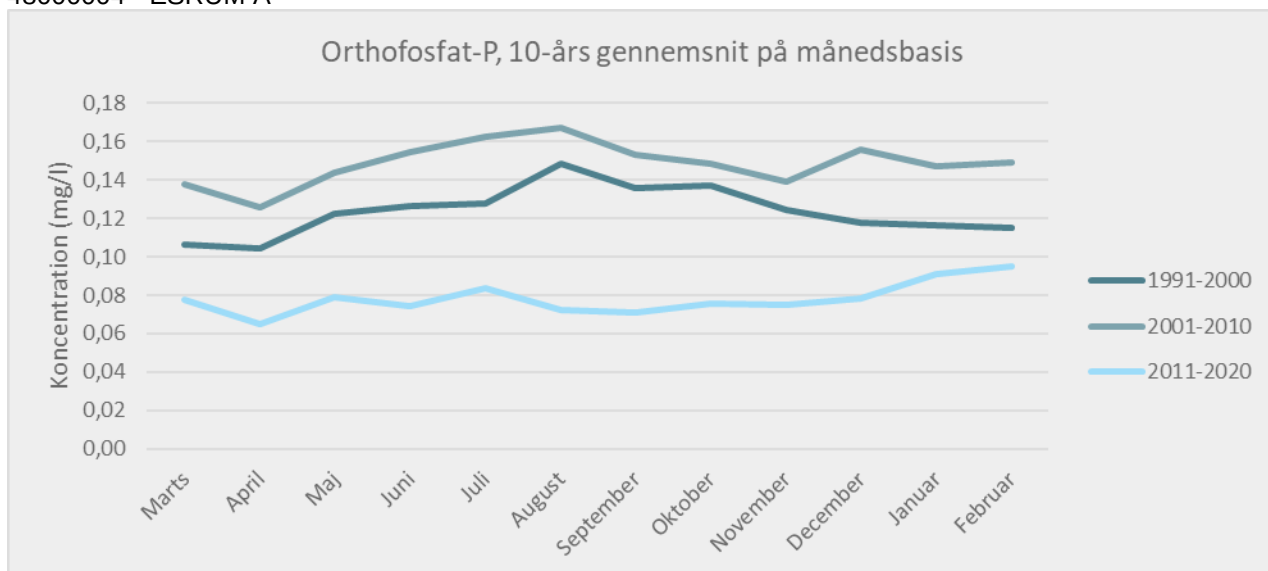
1.5 Orthofosfat-P



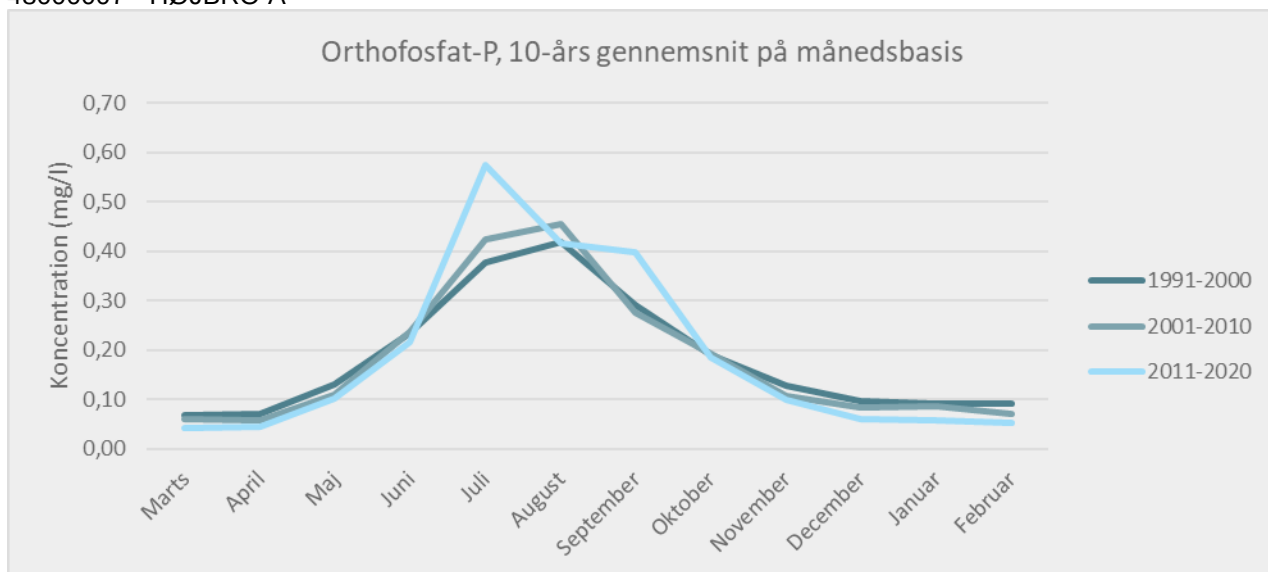
GENNEMSNIET FOR ALLE NEDENSTÅENDE STATIONER



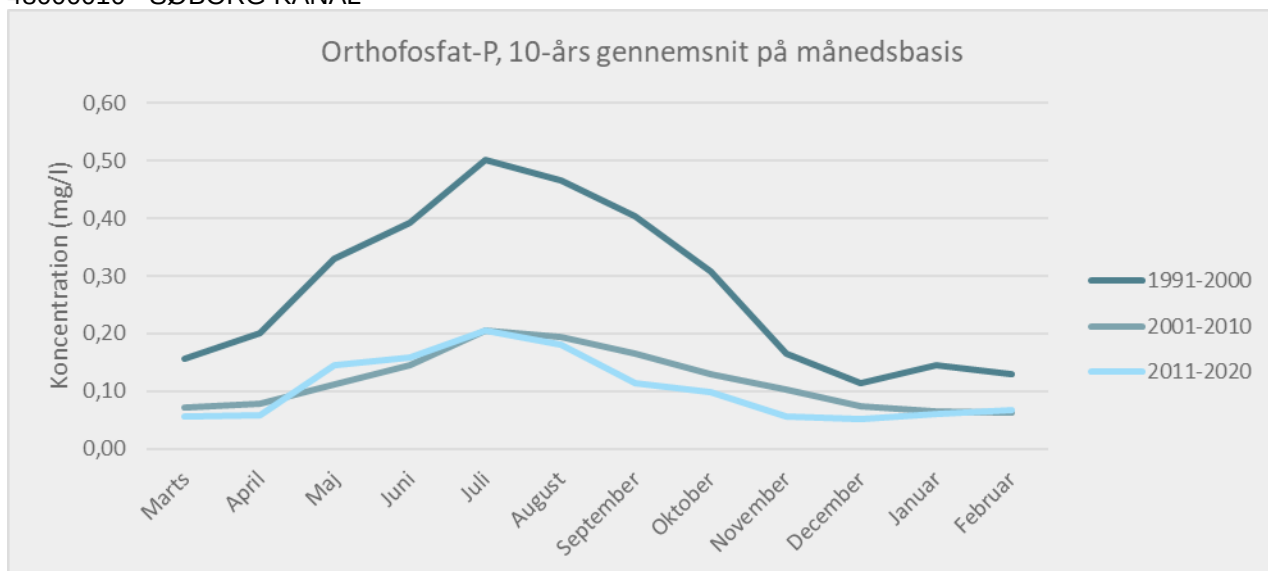
48000004 - ESRUM Å



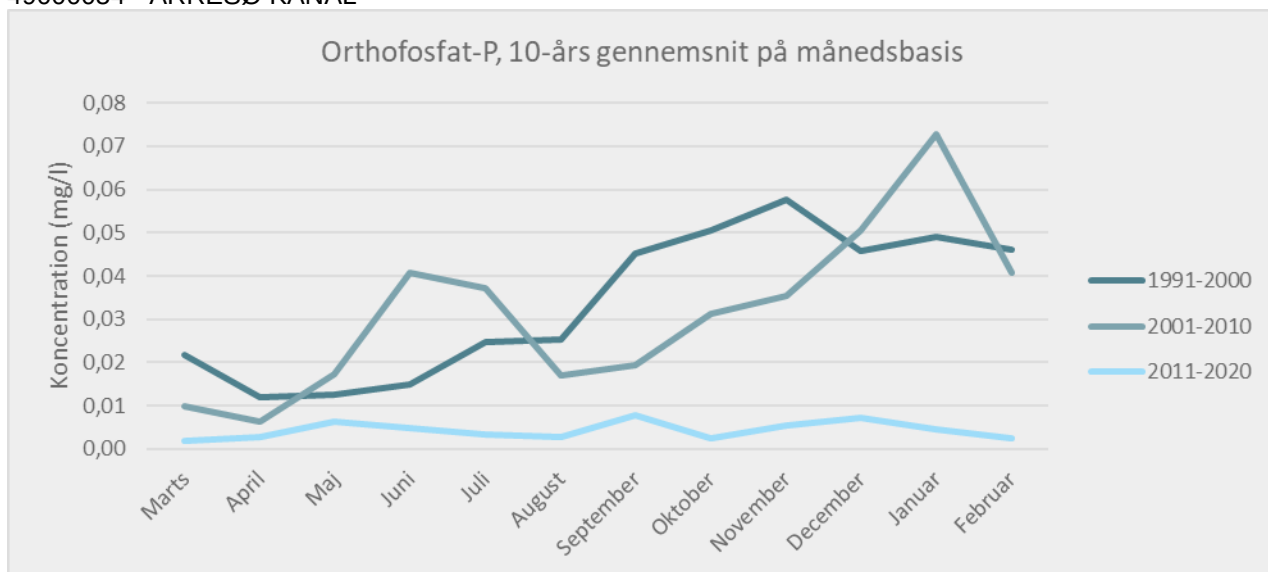
48000007 - HØJBRO Å



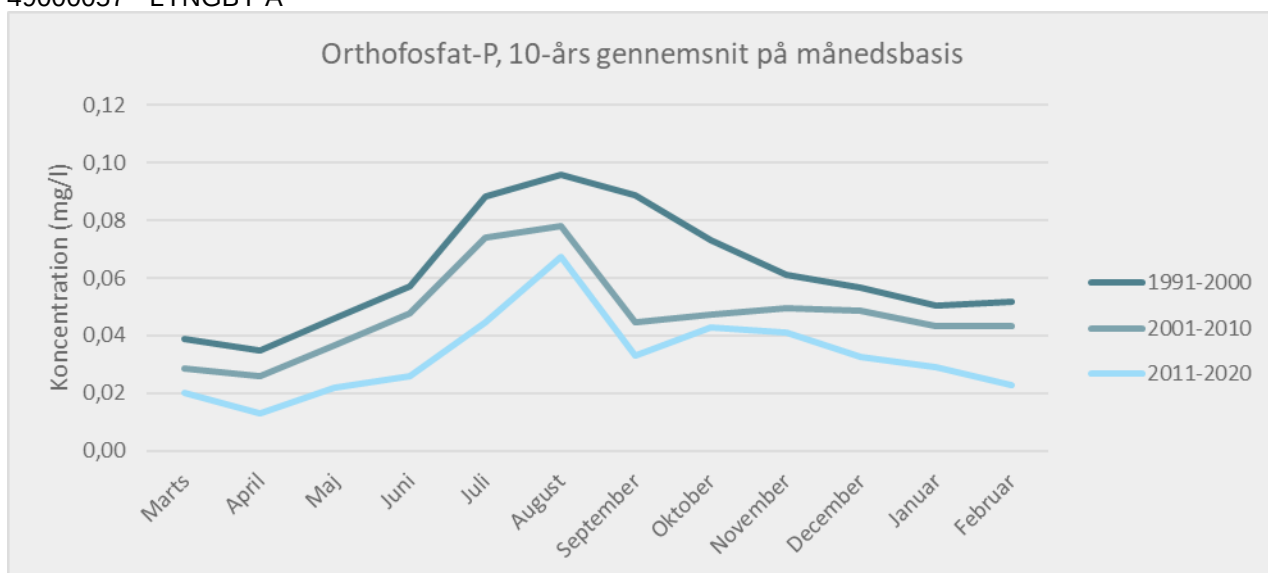
48000010 - SØBORG KANAL



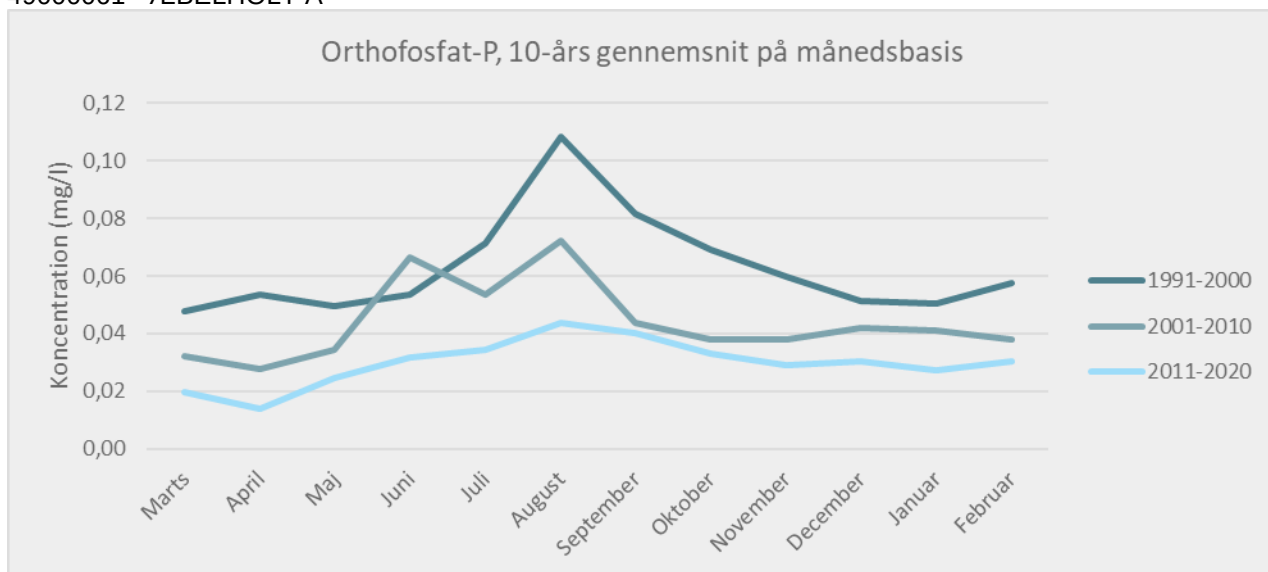
49000054 - ARRESØ KANAL



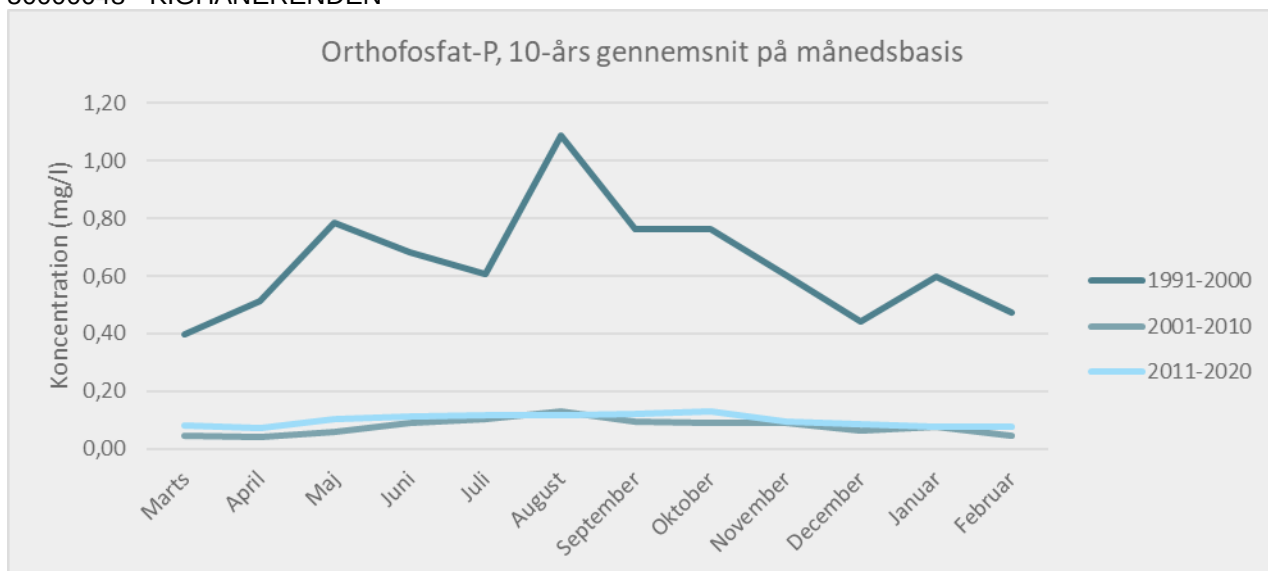
49000057 - LYNGBY Å



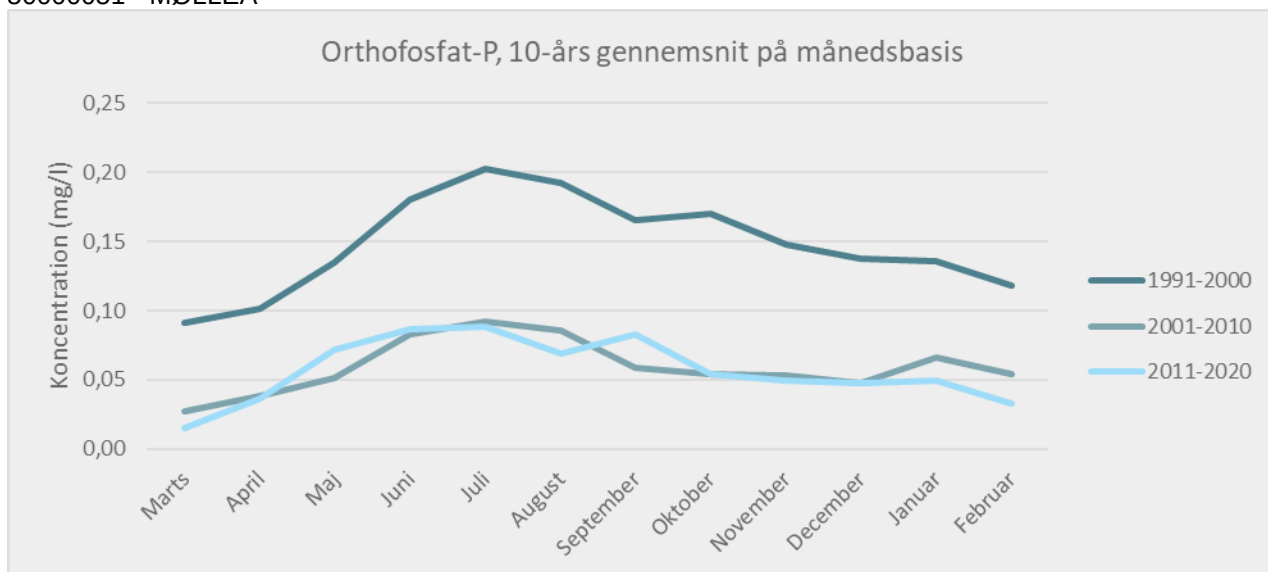
49000061 - ÆBELHOLT Å



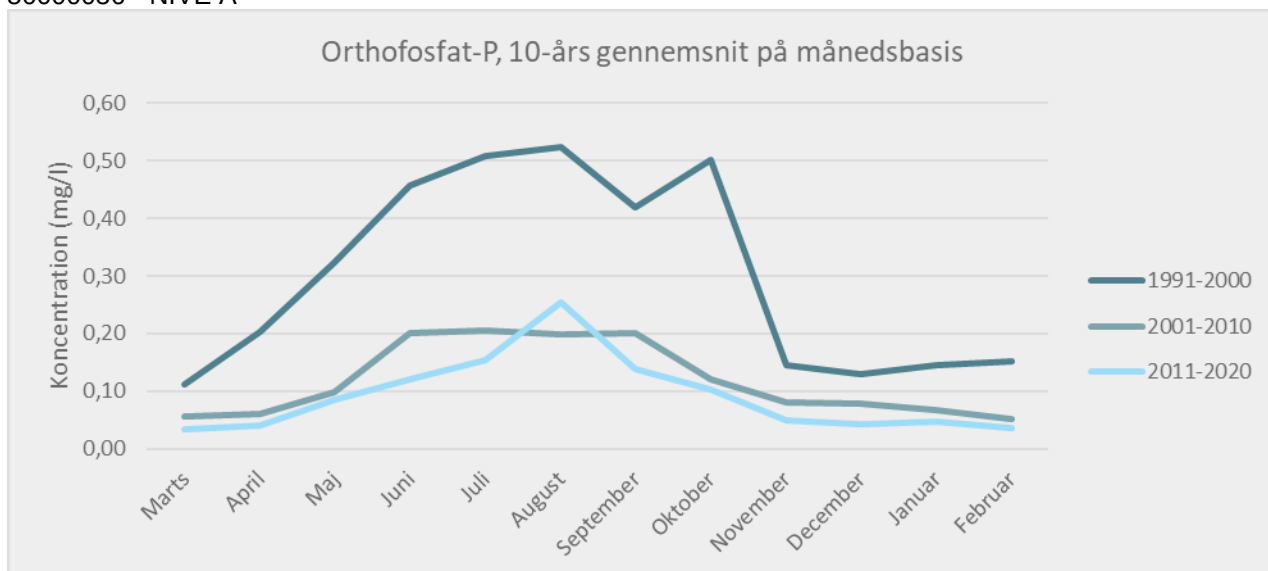
50000048 - KIGHANERENDEN



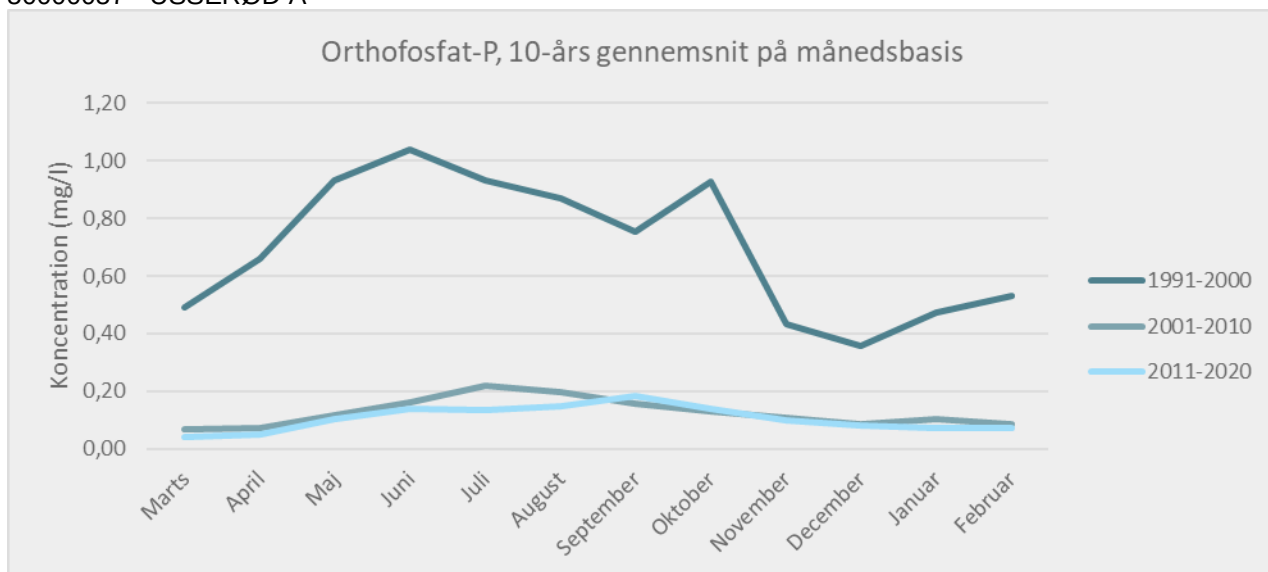
50000051 - MØLLEÅ



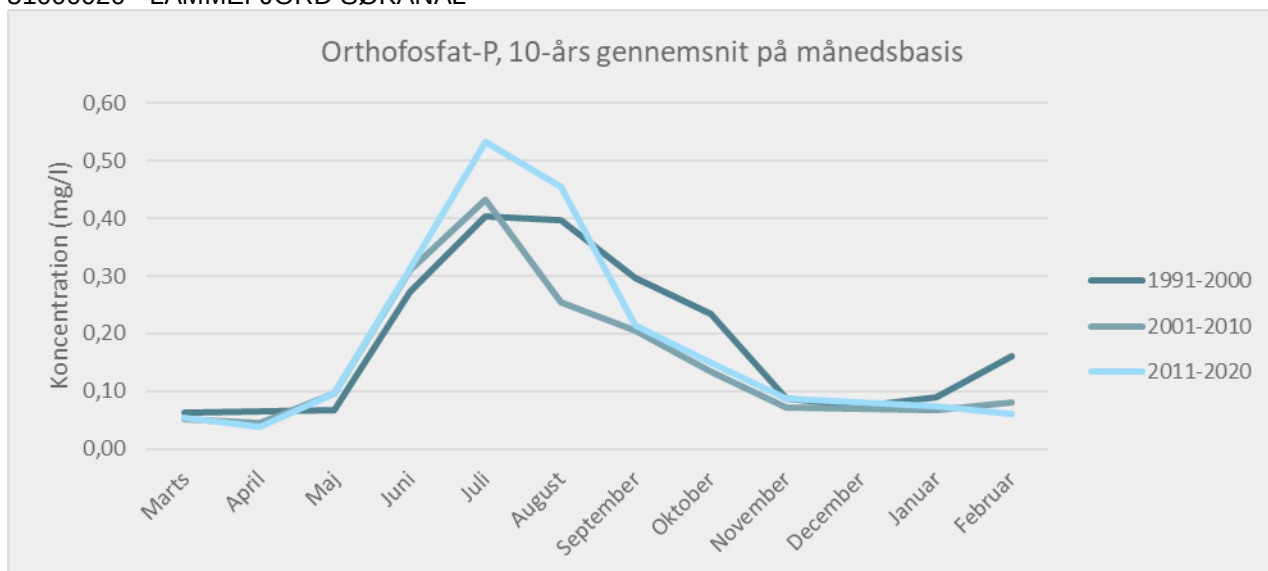
50000056 - NIVE Å



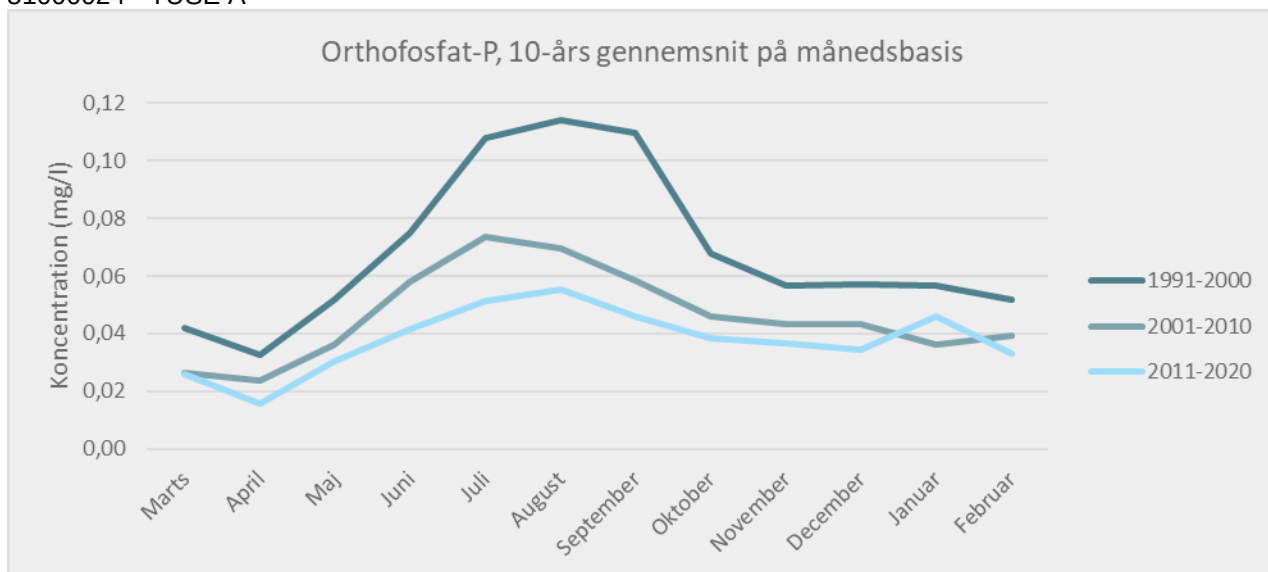
50000057 - USSERØD Å



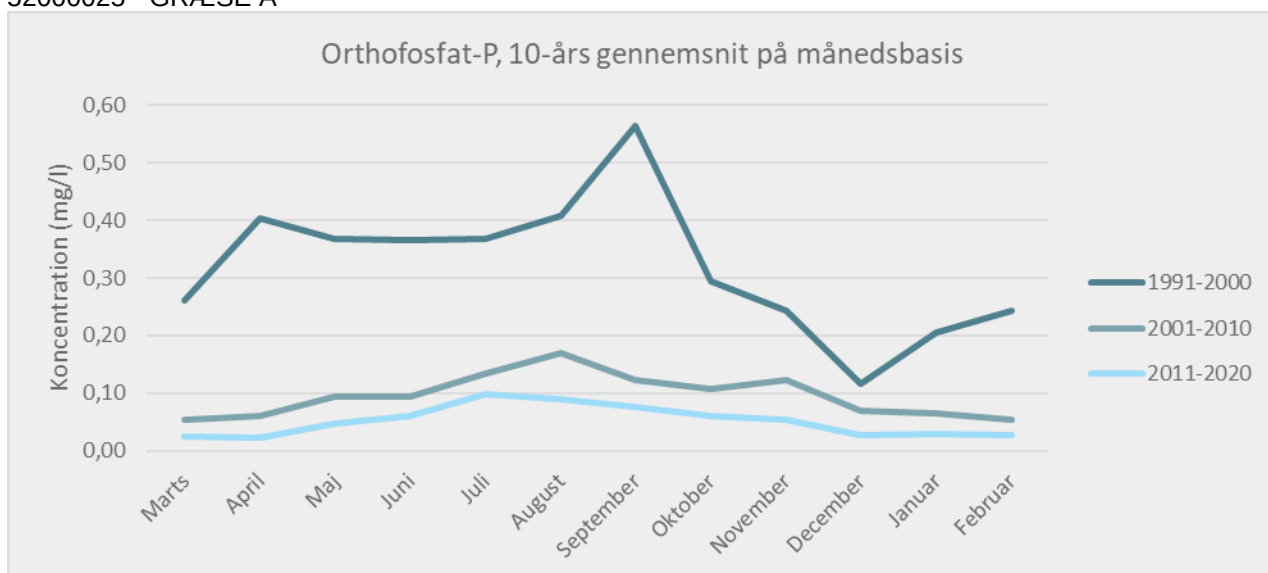
51000020 - LAMMEFJORD SØKANAL



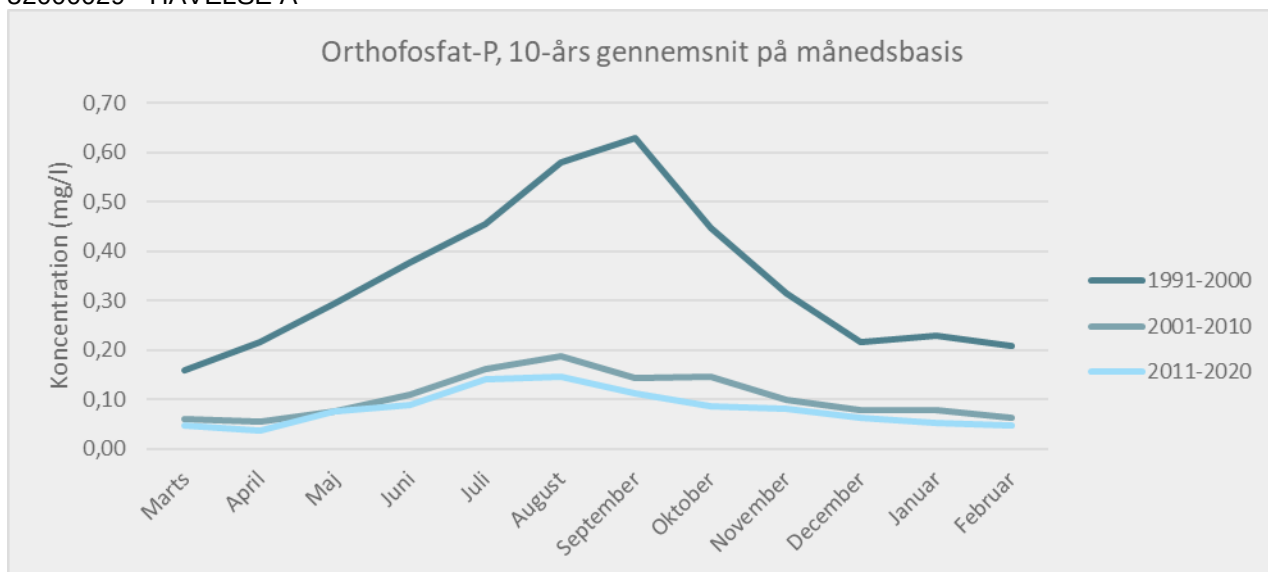
51000024 - TUSE Å



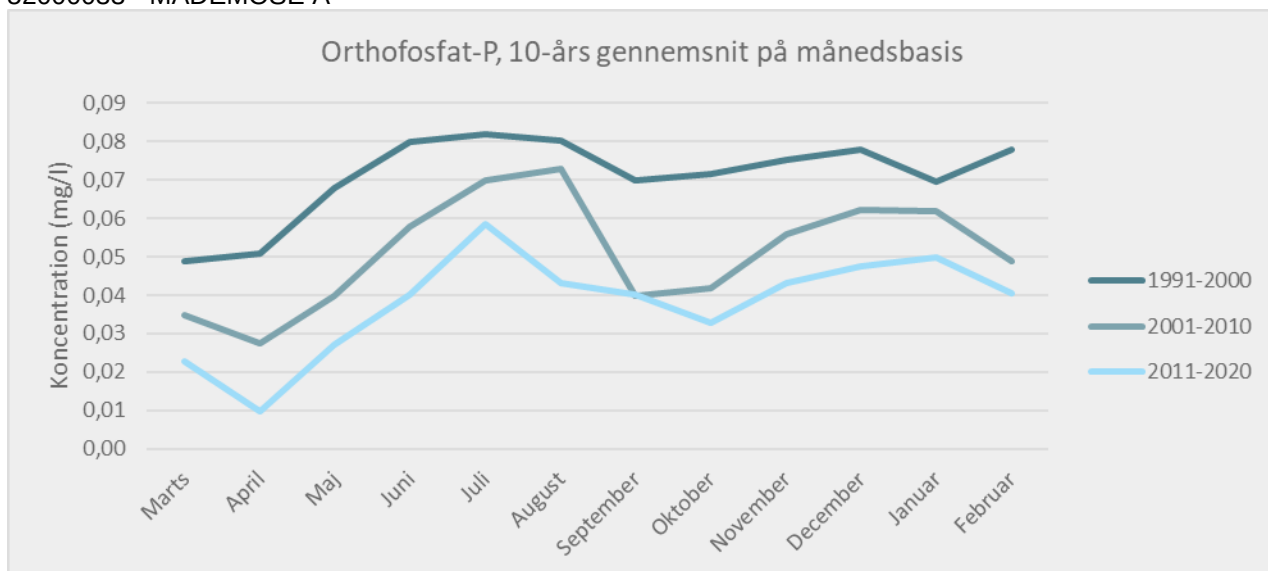
52000025 - GRÆSE Å



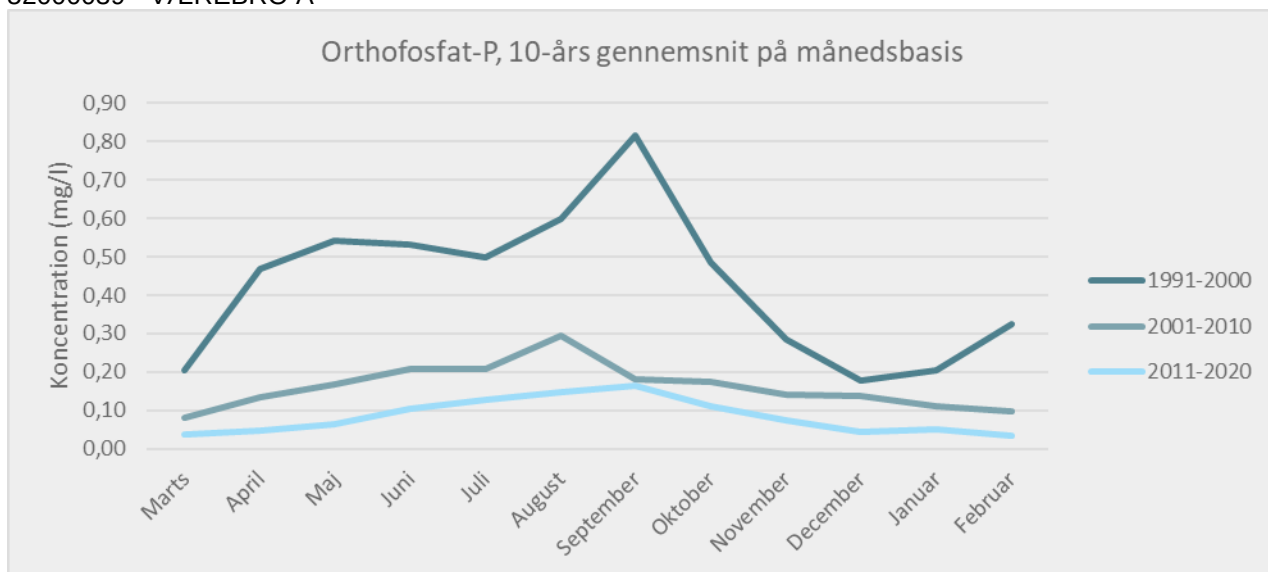
52000029 - HAVELSE Å



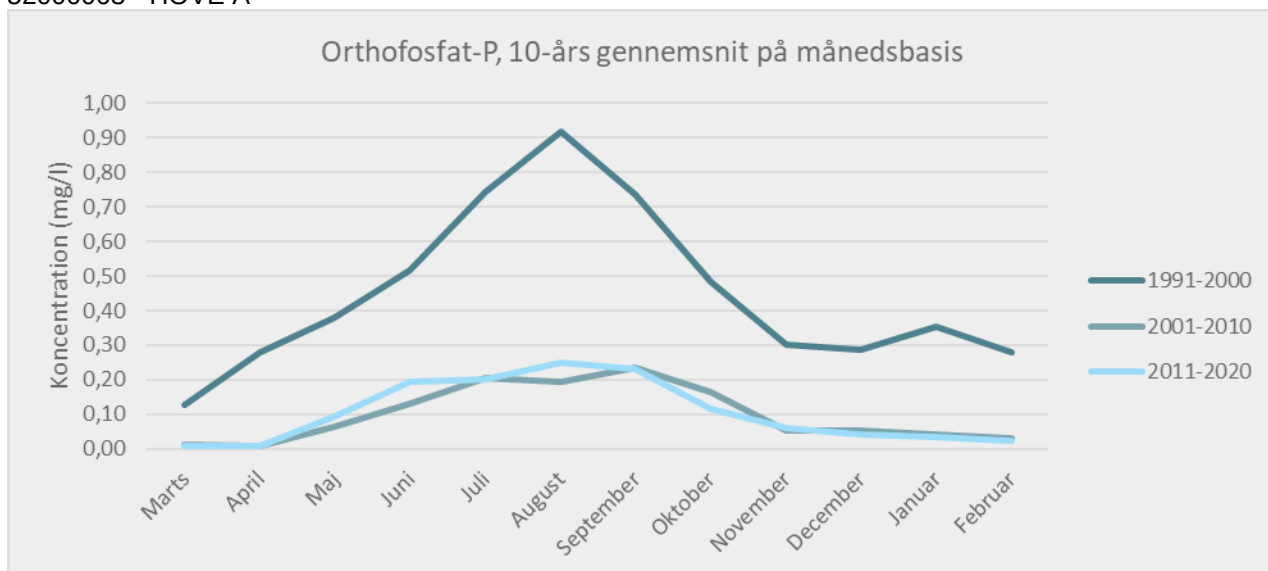
52000033 - MADEMOSE Å



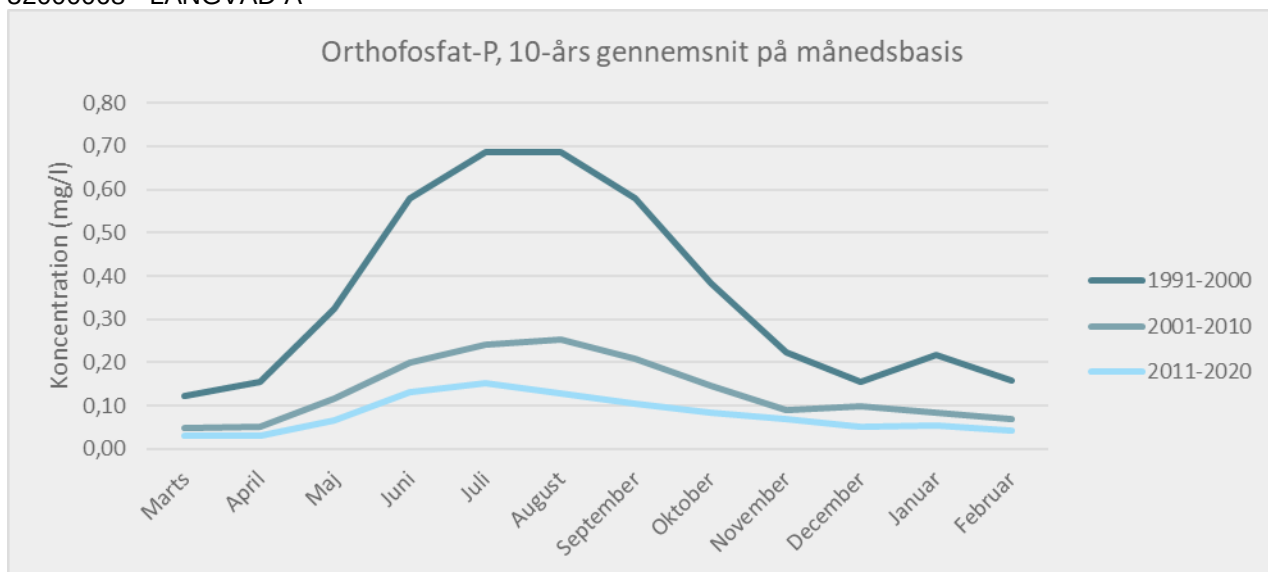
52000039 - VÆREBRO Å



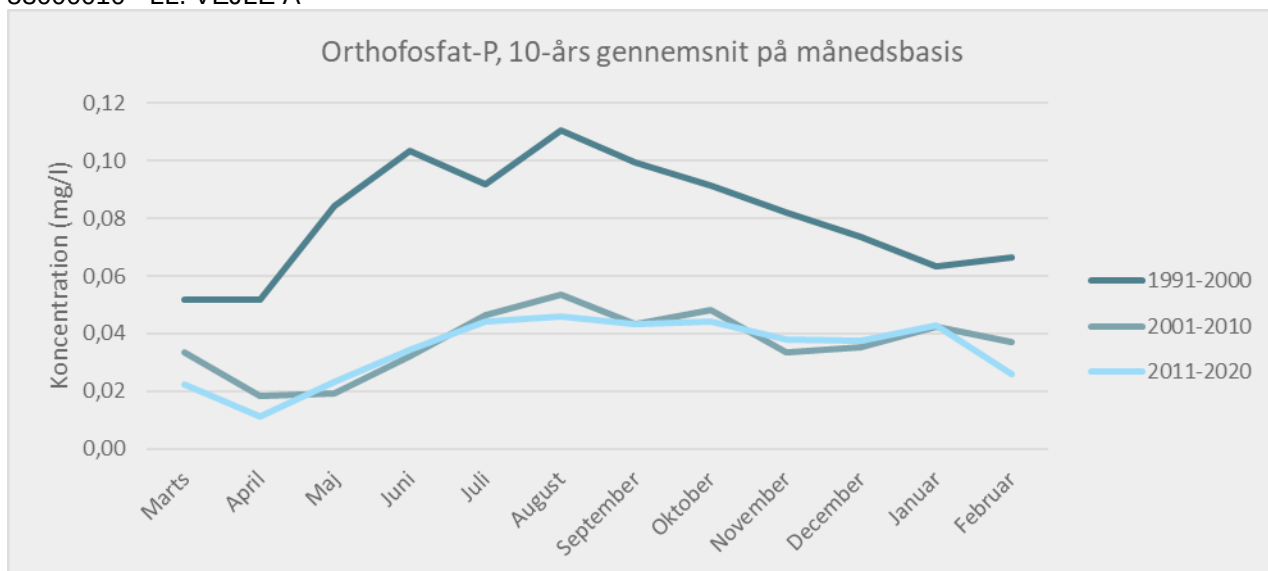
52000063 - HOVE Å



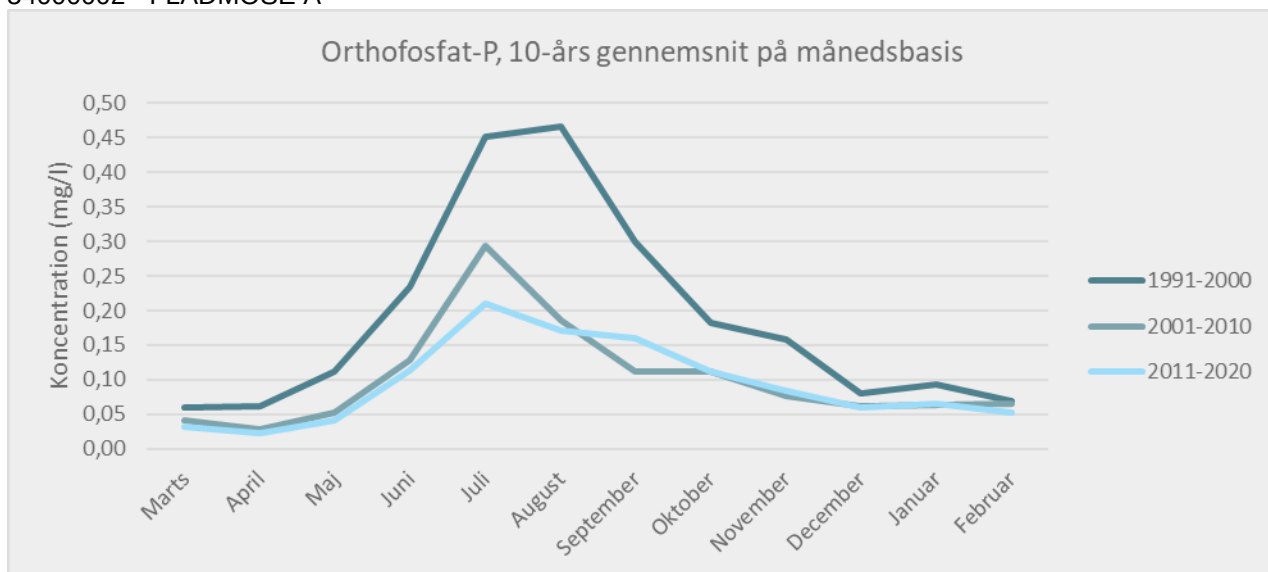
52000068 - LANGVAD Å



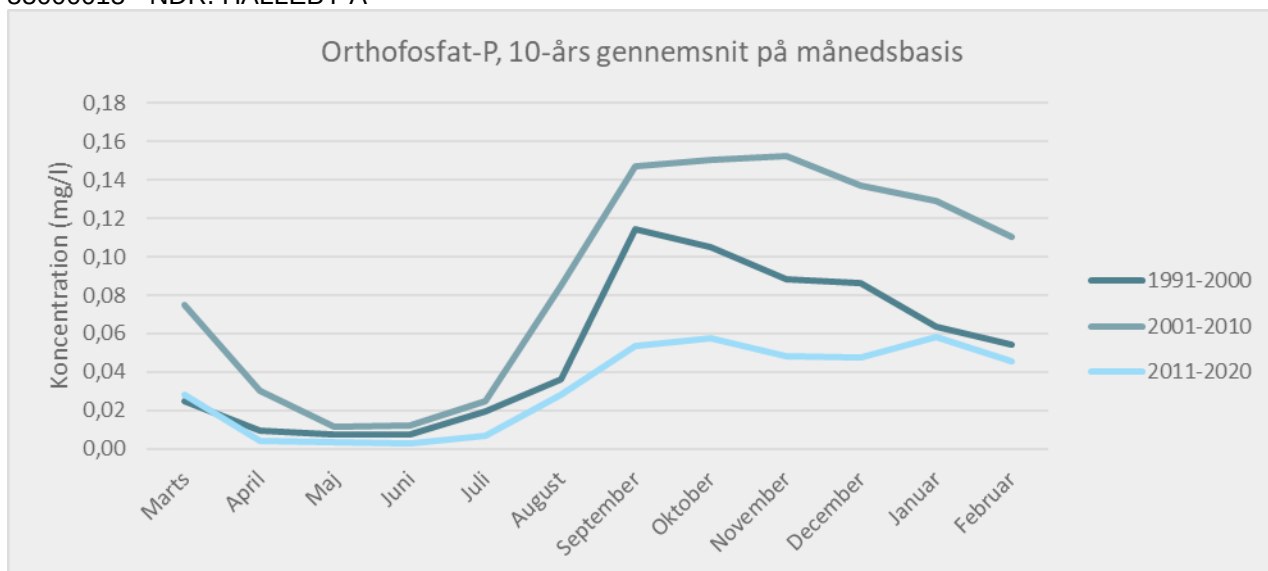
53000010 - LL. VEJLE Å



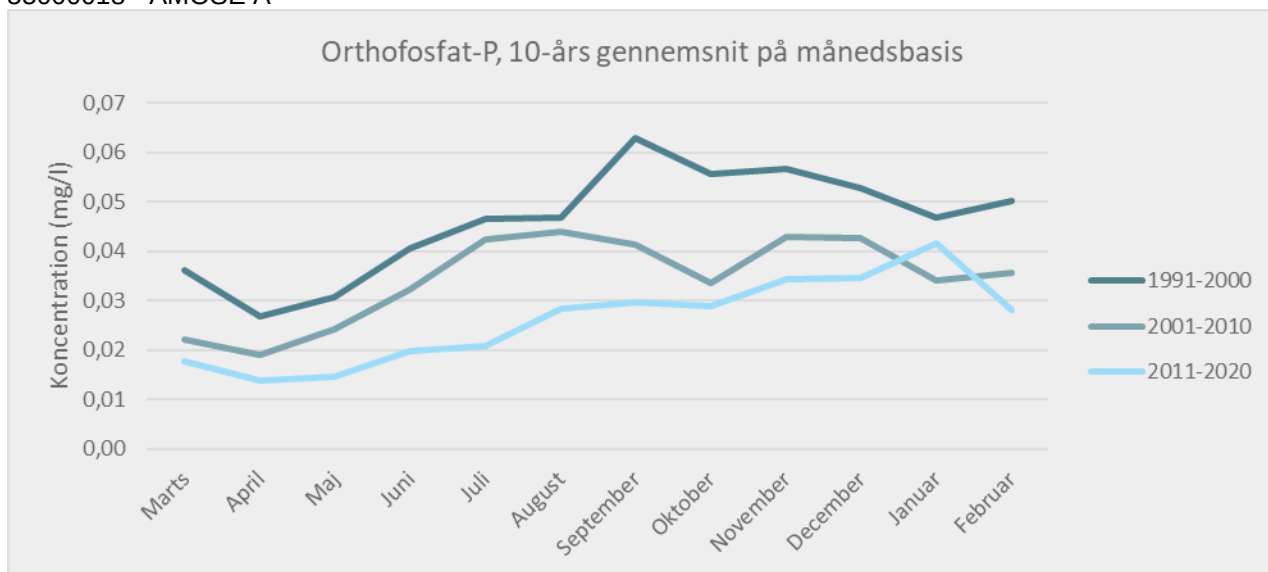
54000002 - FLADMOSE Å



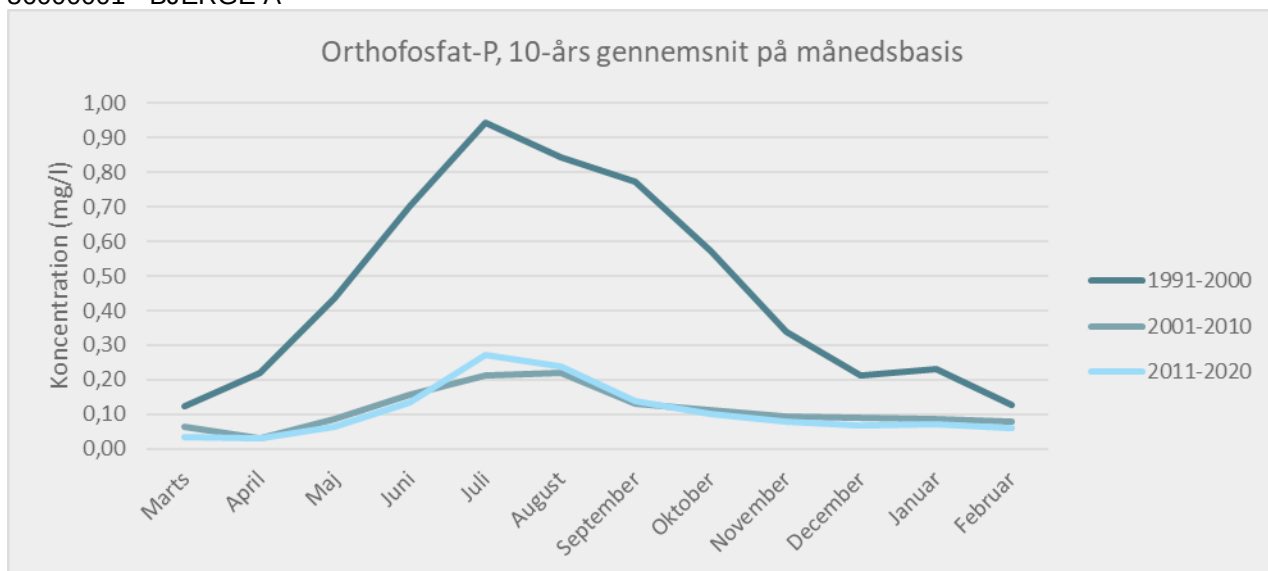
55000015 - NDR. HALLEBY Å



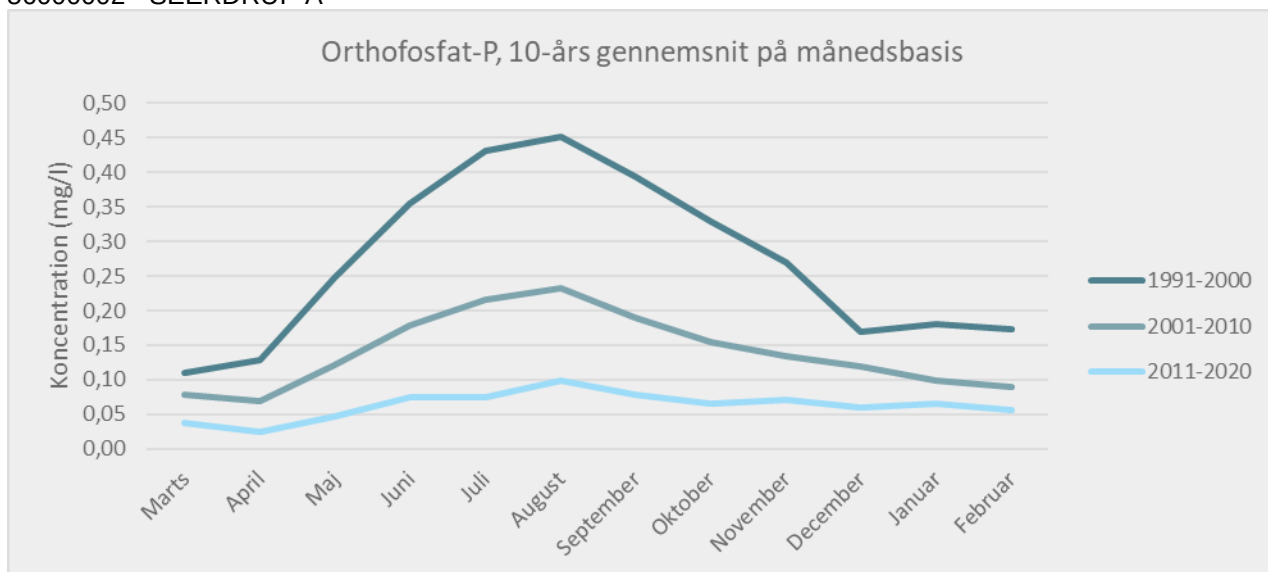
55000018 - ÅMOSE Å



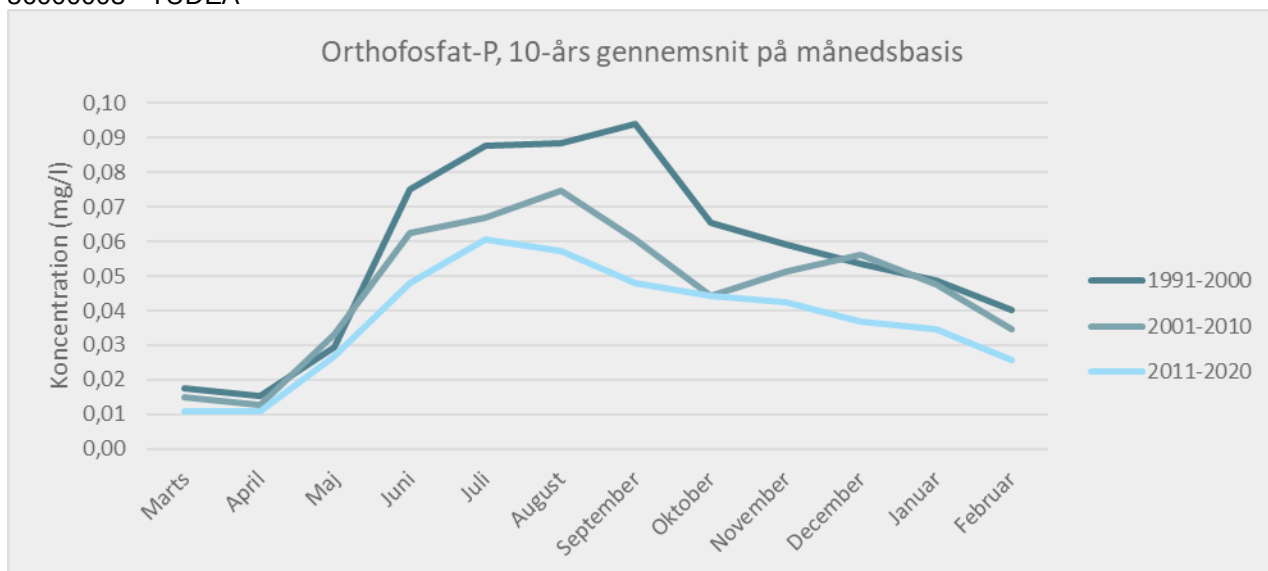
56000001 - BJERGE Å



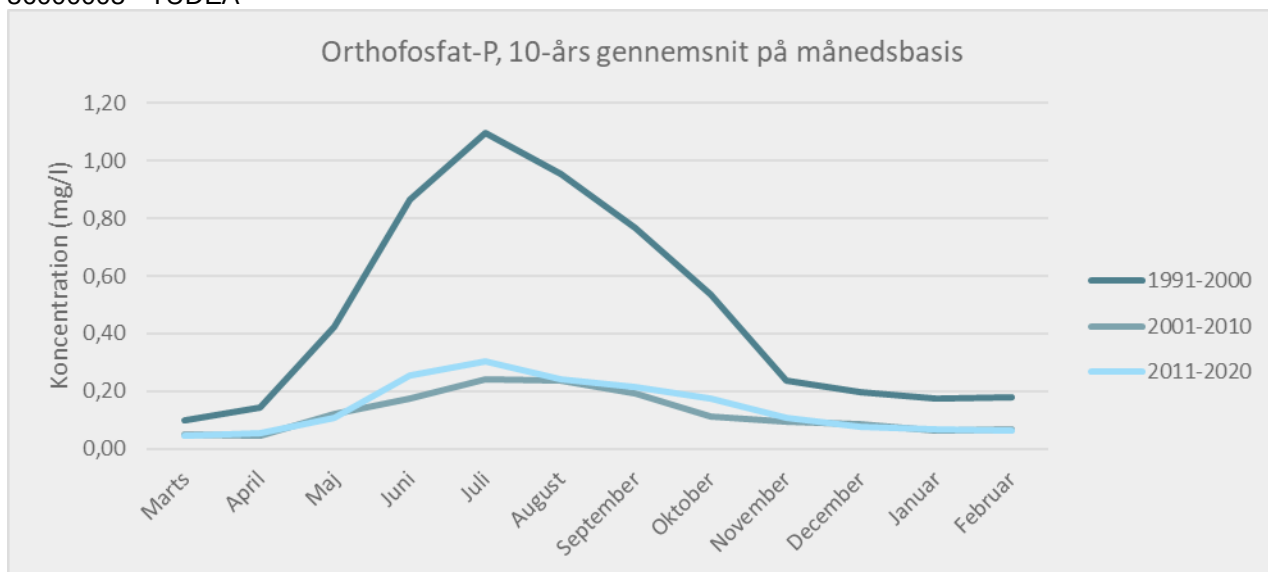
56000002 - SEERDRUP Å



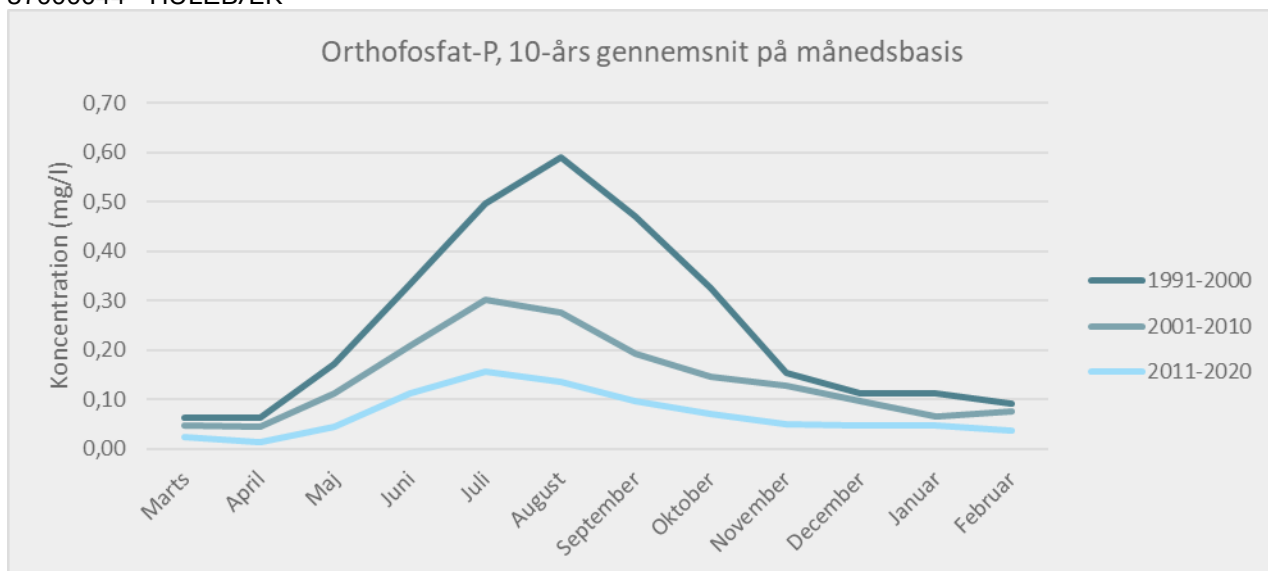
56000003 - TUDEÅ



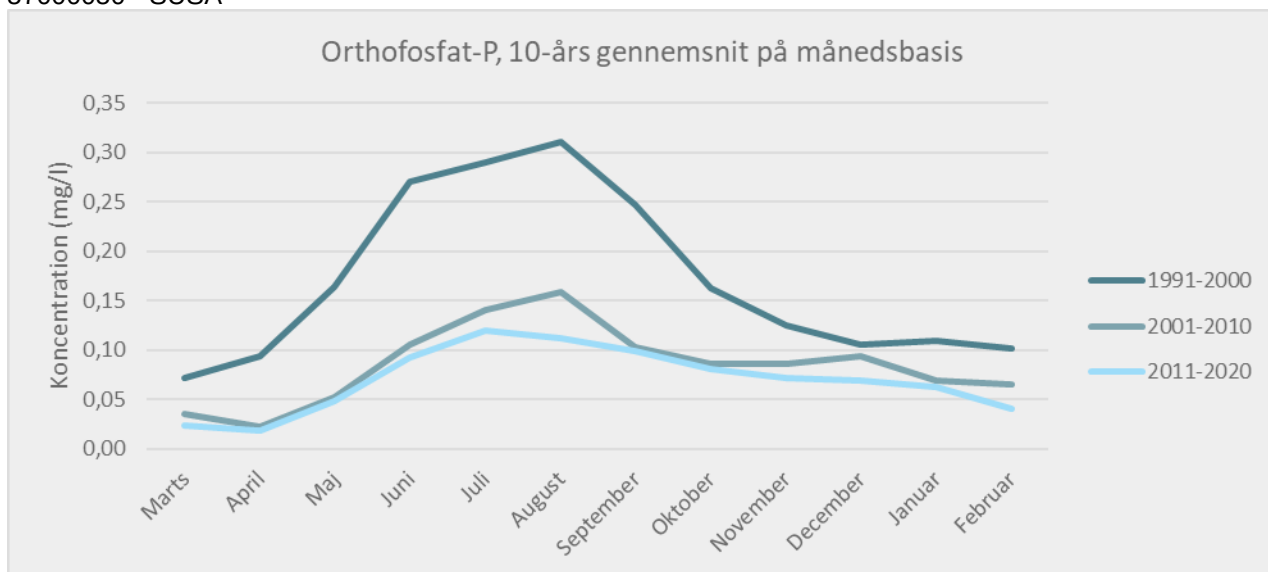
56000005 - TUDEÅ



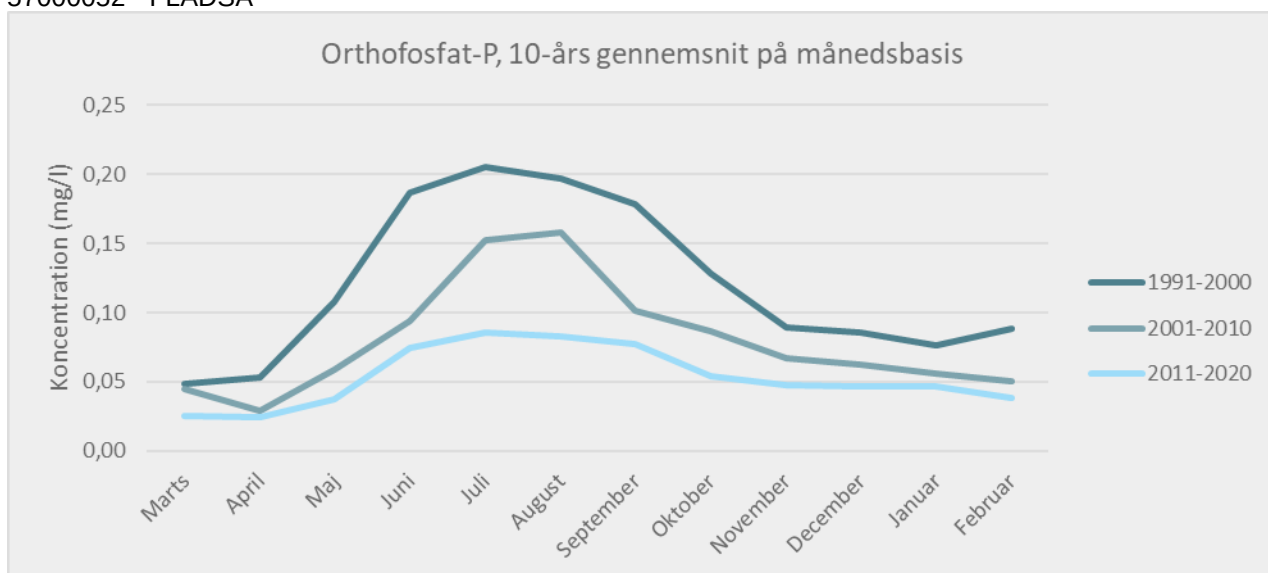
57000044 - HULEBÆK



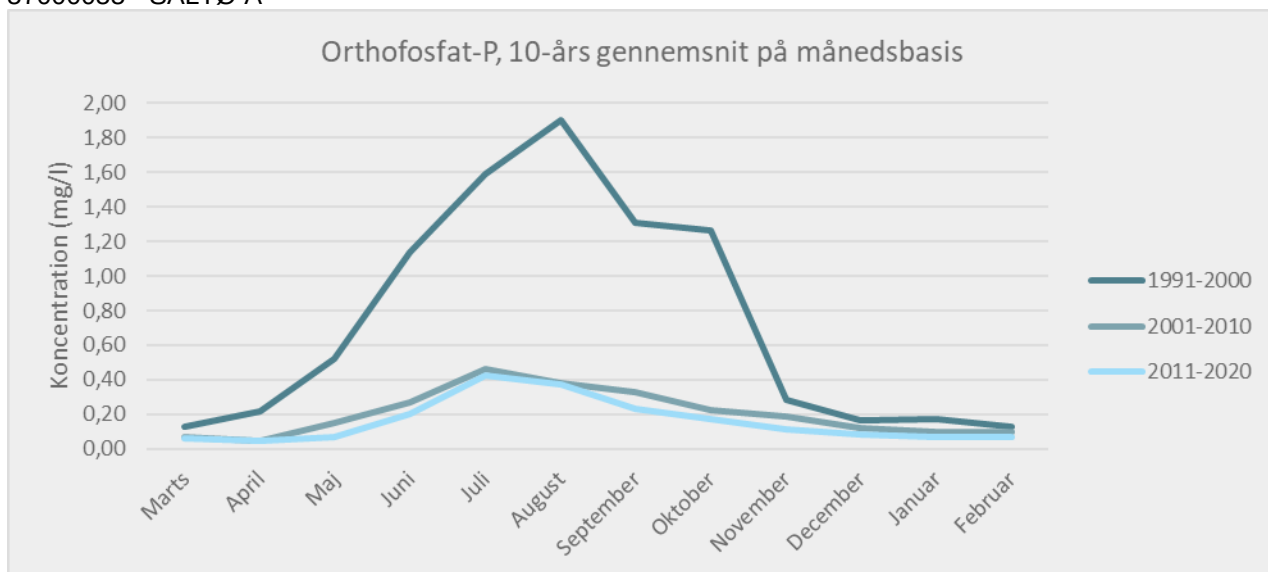
57000050 - SUSÅ



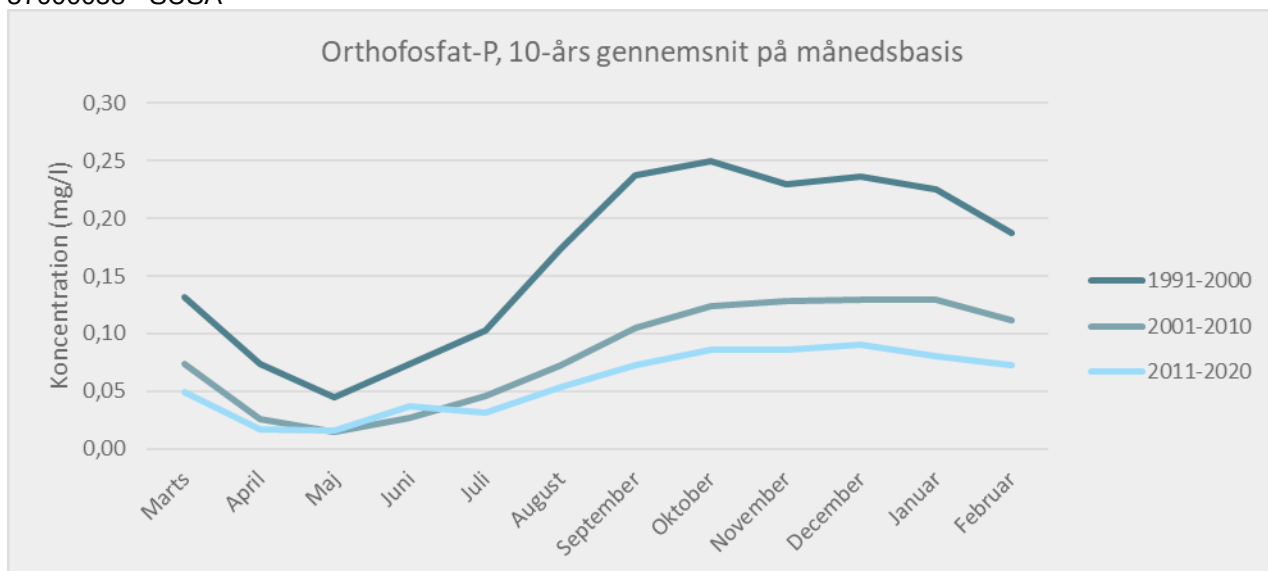
57000052 - FLADSÅ



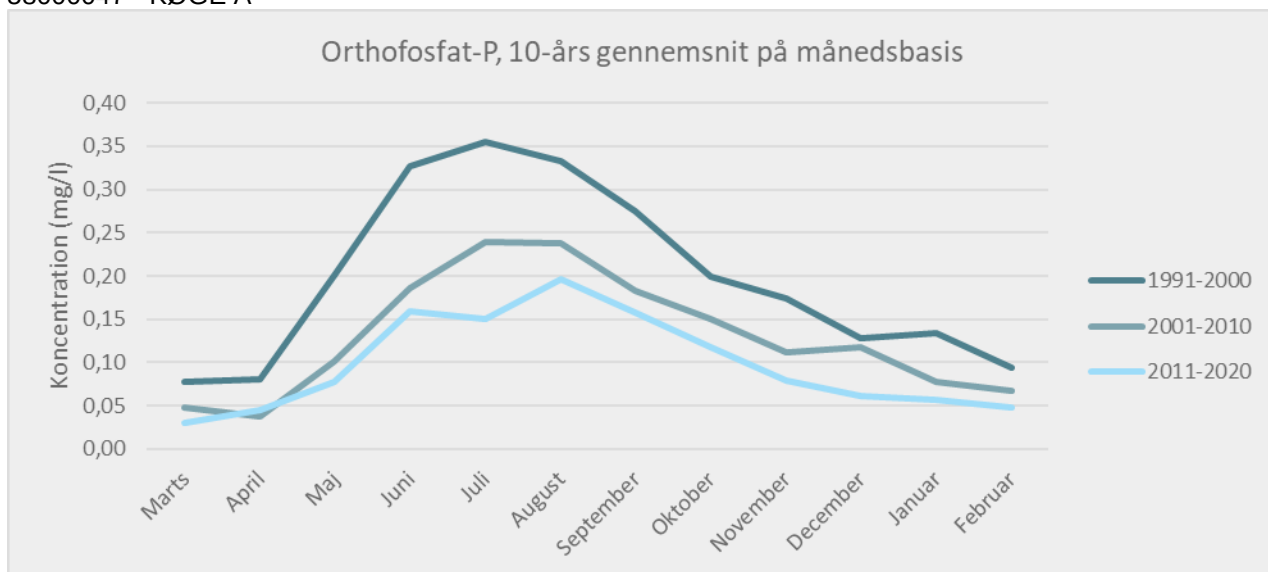
57000055 - SALTØ Å



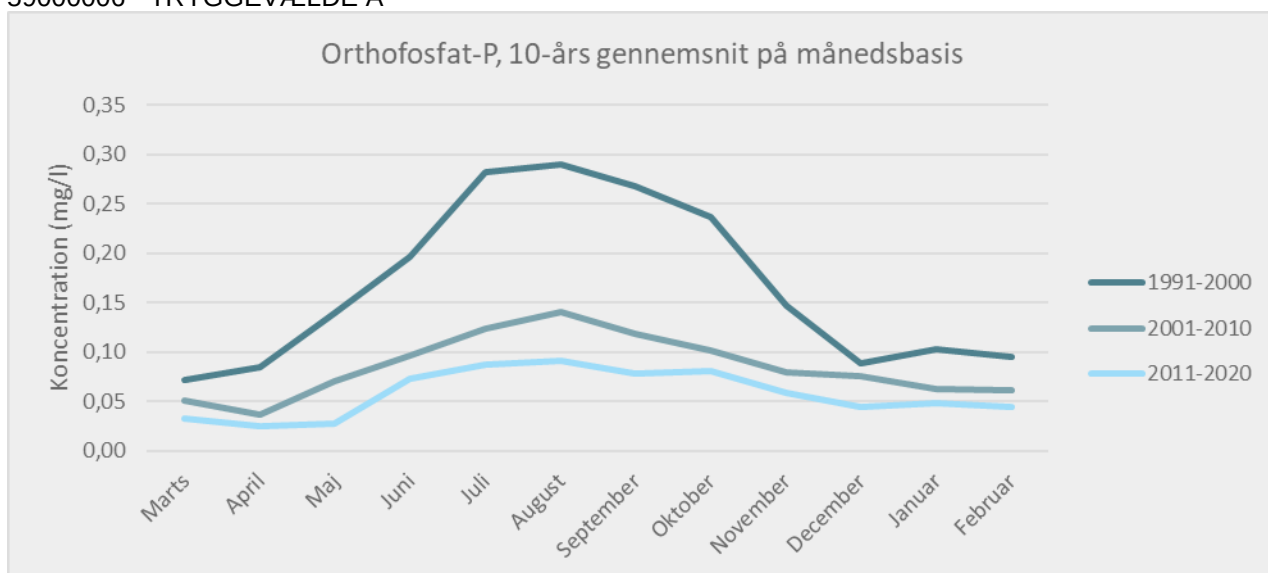
57000058 - SUSÅ



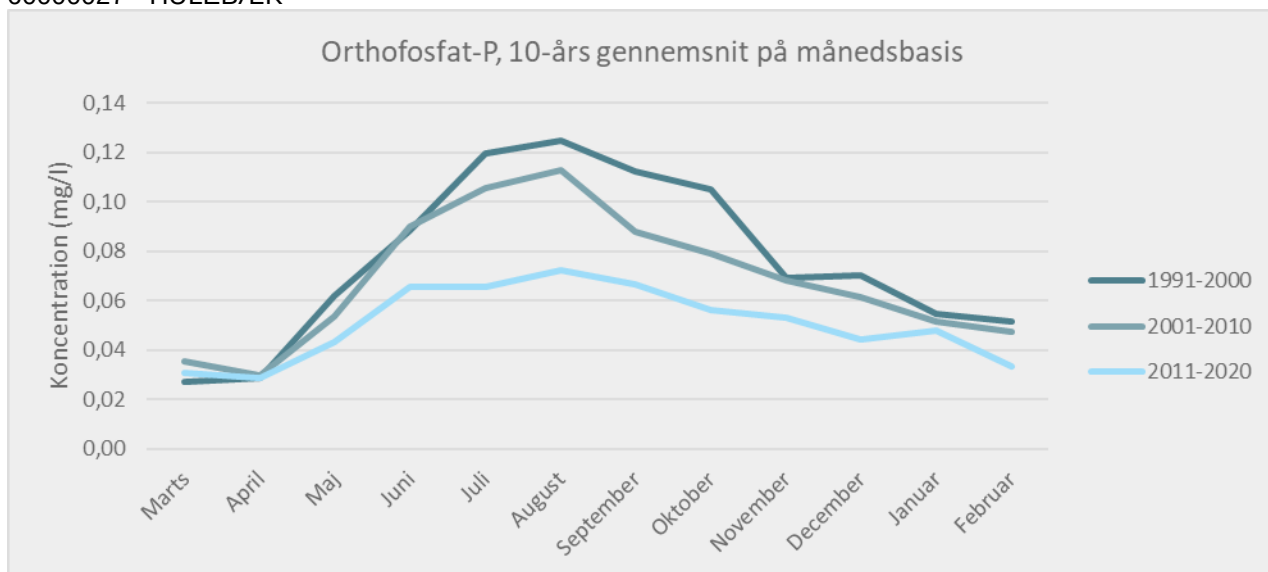
58000047 - KØGE Å



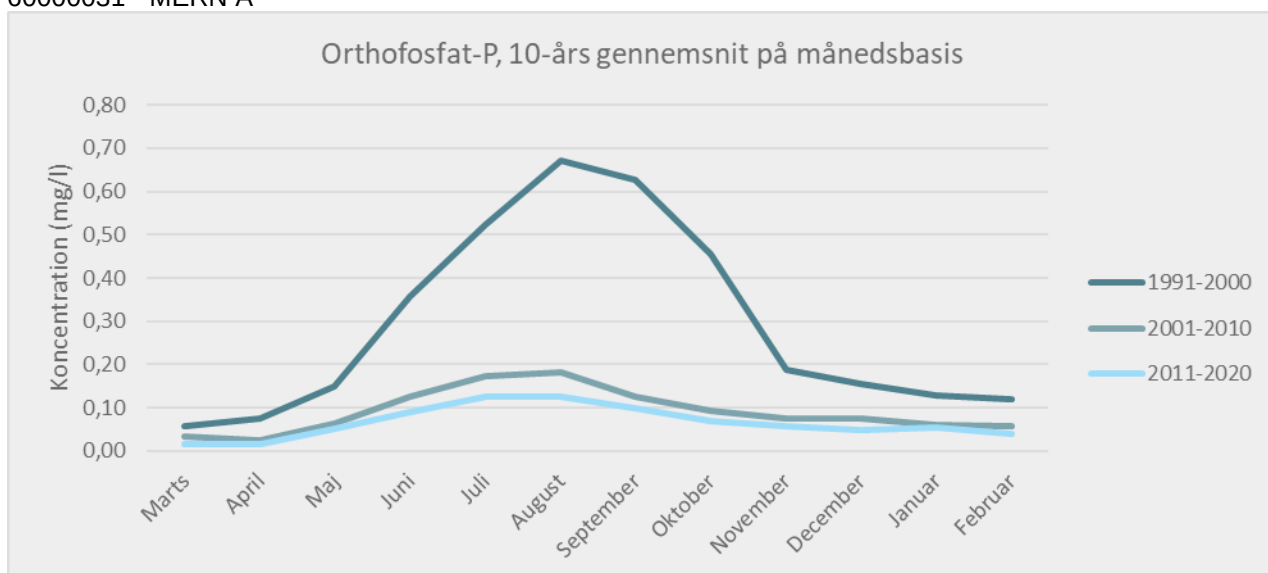
59000006 - TRYGGEVÆLDE Å



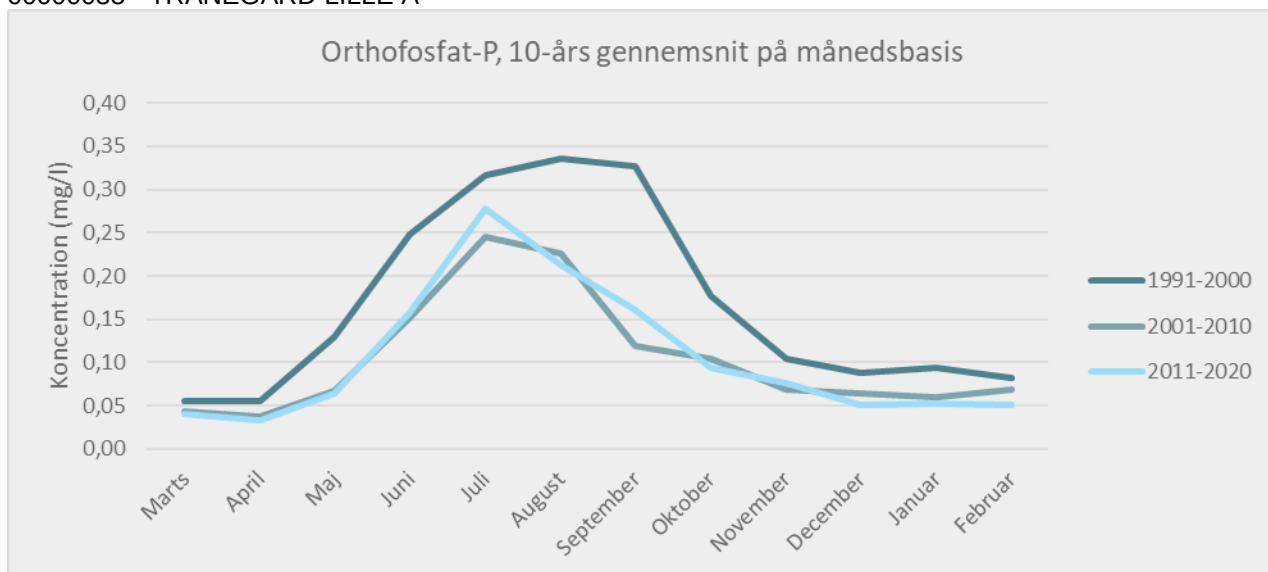
60000027 - HULEBÆK



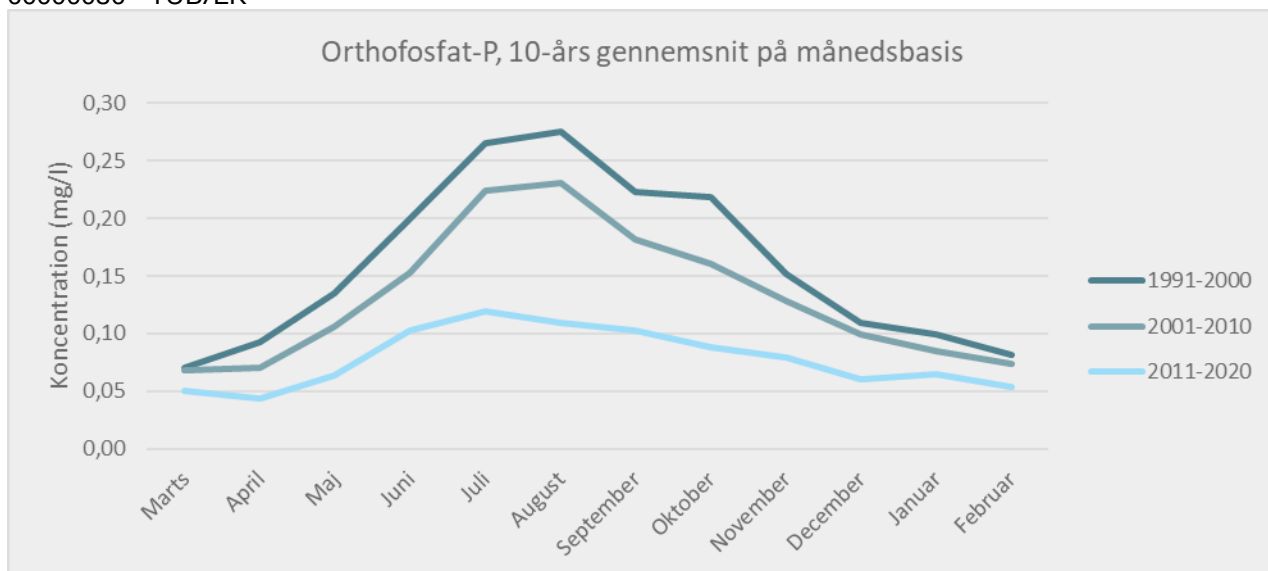
60000031 - MERN Å



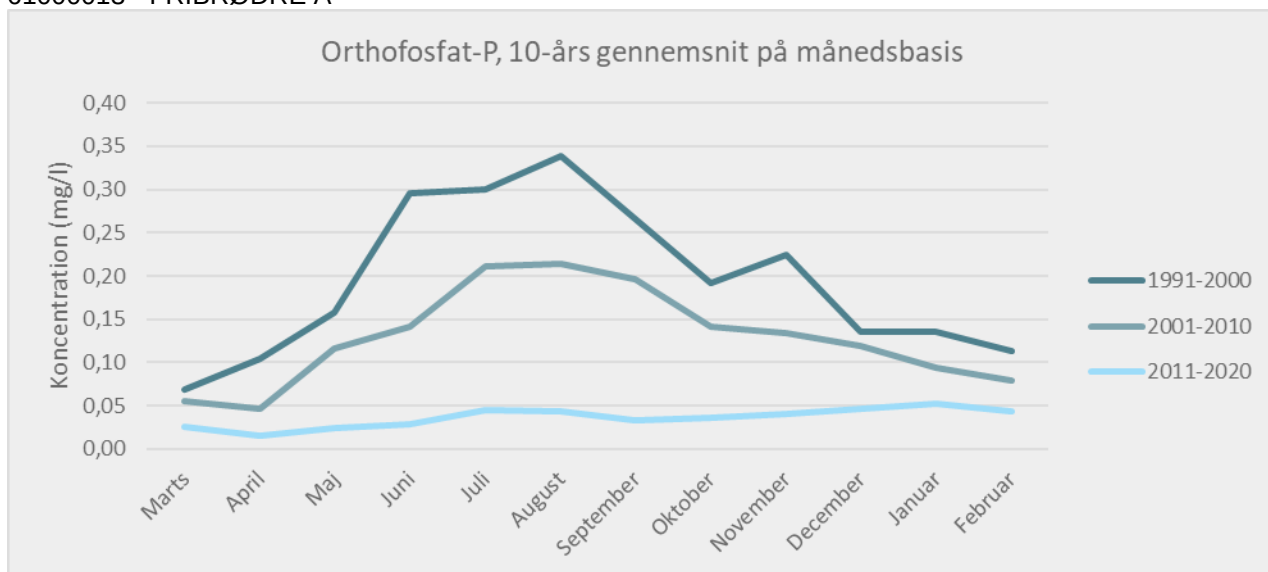
60000035 - TRANEGÅRD LILLE Å



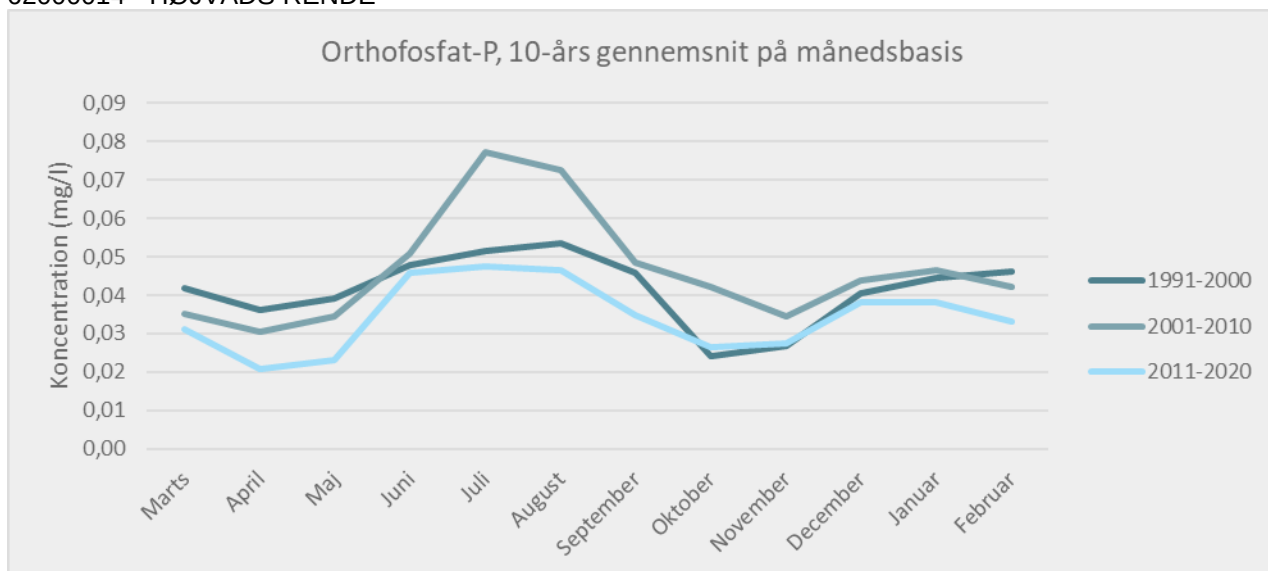
60000036 - TUBÆK



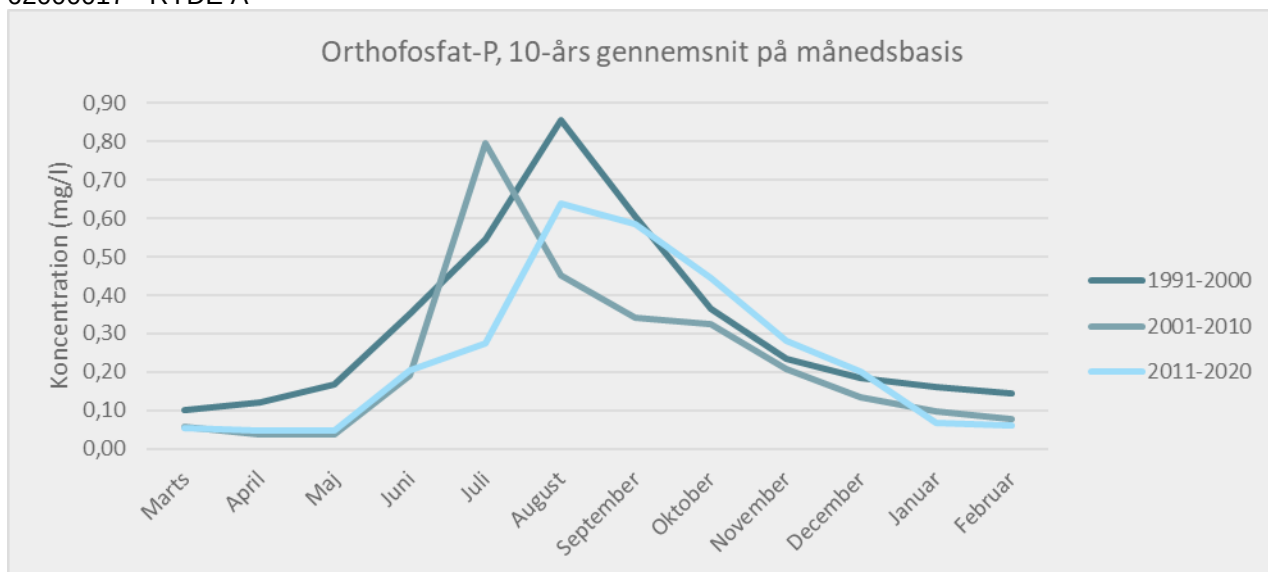
61000013 - FRIBRØDRE Å



62000014 - HØJVADS RENDE



62000017 - RYDE Å



64000025 - NÆLDEVADS Å

