



Data atlas

Oppdragsgiver

Statens forurensningstilsyn

Deltakende institusjon

VERITEC

Eutrofi- situasjonen i YTRE OSLOFJORD

DELPROSJEKT 3.4 a

Data atlas

Strøm-, vær- og hydrografiske
målinger i faste punkter,
mai-november 1988.





Statlig program for forurensningsovervåking

Det statlige programmet omfatter overvåking av forurensningsforholdene i

**luft og nedbør
grunnvann
vassdrag og fjorder
havområder**

Overvåkingen består i langsiktige undersøkelser av de fysiske, kjemiske og biologiske forhold.

Hovedmålsettingen med overvåkingsprogrammet er å dekke myndighetenes behov for informasjon om forurensningsforholdene med sikte på best mulig forvaltning av naturressursene.

Hovedmålet spenner over en rekke delmål der overvåkingen bl.a. skal:

gi informasjon om tilstand og utvikling av forurensningssituasjonen på kort og lang sikt.

registrere virkningen av iverksatte tiltak og danne grunnlag for vurdering av nye forurensningsbegrensende tiltak.

påvise eventuell uheldig utvikling i resipienten på et tidlig tidspunkt.

over tid gi bedre kunnskaper om de enkelte vannforekomsters naturlige forhold.

Sammen med overvåkingen vil det føres kontroll med forurensende utslipp og andre aktiviteter.

Overvåkingsprogrammet finansieres i hovedsak over statsbudsjettet. Statens forurensningstilsyn er ansvarlig for gjennomføring av programmet.

Resultater fra de enkelte overvåkingsprosjekter publiseres i årlige rapporter.

Henvendelser vedrørende programmet kan i tillegg til de aktuelle institutter rettes til Statens forurensningstilsyn, Postboks 8100 Dep, 0032 Oslo 1, tlf. 02 - 65 98 10.

NIVA – RAPPORT

Norsk institutt for vannforskning  NIVA

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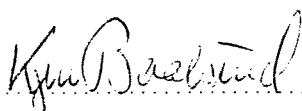
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Ekstrakt: (Dette ark er lagt inn i NIVA's eksemplarer) Data atlas'et er mangfoldiggjort i få eksemplarer.

4 emneord, norske:
1. Oslofjord
2. Hydrografi
3. Strømmålinger
4. Vindmålinger

4 emneord, engelske:
1.
2.
3.
4.

Prosjektleder:



Kjell Baalsrud

For administrasjonen:

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Programleder, overvåking



Rapport/Report

VERITEC

Veritas Offshore Technology and Services A/S

Hovedkontor/Head Office HØVIK (OSLO)

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Sammendrag/Summary

Rapporten inneholder et data atlas over strømmålinger, temperatur- og saltholdighetsmålinger, og vær- og vannstandsmålinger foretatt ved faste punkter i Ytre Oslofjord. Målingene fant sted i tidsrommet mai til november 1988. Det ble observert strøm, temperatur, og saltholdighet vha forankrede selvregistrerende strømmålere i flere posisjoner og dyp. Det ble observert vind, lufttrykk og vannstand vha en selvregistrerende værstasjon ved Rauer.

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Oslofjord
Hydrography
Current Measurements
Wind Measurements

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DATA ATLAS:

STRØM-, VAER- OG HYDROGRAFISKE MALINGER

I FASTE PUNKTER, MAI-NOVEMBER 1988

Finn-Erik Dahl

Bruce Hackett

Veritas Offshore Technology and Services A/S

6 februar 1989

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INNLEDNING

Denne rapporten inneholder et atlas over strøm- og vindmålinger utført i tidsrommet mai-november 1988 ved faste punkter i ytre Oslofjord. Ansvarlig for strømmålingene er NIVA. Ansvarlig for vindmålingene ved Rauer er Veritas Offshore Technology and Services A/S (Veritec). Ansvarlig for utarbeidelsen av dette atlaset er Veritas Offshore Technology and Services A/S, med Bruce Hackett og Finn-Erik Dahl som medarbeidere.

1. INSTRUMENTERING OG DATAINNSAMLING

a. Strømmålinger

Strømmålingene ble utført med Aanderaa RCM instrumenter montert på faste forankringer. En overflatebøye ble benyttet, slik at strømmålerne skulle holde samme avstand fra overflaten under hele perioden. Samtlige strømmålere var utstyrt med sensorer for temperatur og ledningsevne. En samplingsperiode på 20 minutter ble benyttet.

Dataene lagres i målerne, enten på magnetisk bånd eller på en hukommelsesbrikke. Målingene hentes fram først når instrumentene er blitt tatt opp fra sjøen. På grunn av instrumentenes begrenset lagringskapasitet, måtte de byttes med 1-2 måneders mellomrom. Alle utsetninger og opptak av strømmåler-rigger ble foretatt med F/F "Trygve Braarud".

I henhold til de planlagte målinger, var det et betydelig tap av instrumenter. Dette skyldes trolig tråleaktivitet. En oversikt over datafangsten er vist i Tabell 1.

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b. Vindmålinger

Vindmålingene ved Rauer ble utført med en Aanderaa selvregistrerende værstasjon. Dette instrument registrerte vindfart, vindretning, vindkast, og atmosfærisk trykk hver 20 minutter. Disse målingene ble supplert av målinger fra en vannstandsmåler.

Målingene lagres på samme måte som beskrevet ovenfor for strømmålerne.

En oversikt over datafangsten er vist i Tabell 1.

2. DATAPROSESSERING

Både strøm- og vindmålingene ble avlest fra lagringsmediene ved hjelp av et leseprogram fra produsenten. Dette programmet foretar den fundamentale data-prosessering, dvs. kalibrering, dekomponering, o.l.

De kalibrerte tidsseriene ble overført til et regnearkprogram, der feilfjerning kunne foretas på en effektiv måte.

3. DATAPRESENTASJON

Presentasjonen av disse målingene er omfattende. Dette gjenspeiler den store datamengden som ble samlet inn. For å få til et mest mulig enhetlig presentasjon er måleseriene inndelt først etter posisjon, deretter etter måledyp, deretter etter måned, og så etter parameter. Framstillingen er hovedsaklig grafisk, med noen supplerende tabeller.

4. KOMMENTARER

Saltholdighetsmålingene skal ikke granskes for nøye. Kalibreringen av konduktivitetssensoren på Aanderaa instrumenter er vanskelig. De relative utsalgene kan imidlertid være til stor nytte.

Strømmåleren ved Drøbaksundet Øst feilet i juli. Årsaken er ukjent, men tidsserien for hele måneden må regnes som feilaktig.



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Strømmålingen ved Grisebaadarna 50m feilet i juli. Temperatur- og saltholdighetsmålingene ser ut til å være brukbare.

Saltholdighetsmålingene ved Grisebaadarna 30m viser en tydelig feil i kalibreringen.

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FIGURER OG TABELLER

Figurene som følger er til en stor grad selvforklarende i og med at måned, posisjon, dyp og plottype står på hver figur. En utfyllende figurtekst for hver enkel figur synes derfor overflødig. Allikevel følger her en oversikt over de forskjellige former for presentasjon av strøm- og vindmålingene. Rekkefølgen av diagrammer er det samme for hver serie for en gitt posisjon, dyp og måned.

1. Strømmålinger

Strømmålingene er presentert i følgende rekkefølge:

Tidsserie av temperatur

Tidsserie av saltholdighet

Tidsserie av tetthet, gitt som σ_t

Temperatur vs. saltholdighet

Tidsserie av strømfart

Progressivt vektordiagram

Tidsserie av strøm, nordkomponent

Tidsserie av strøm, østkomponent

Saltholdighet vs. strømretning

Saltholdighet vs. strømfart

I tillegg er tidevannskomponentene blitt beregnet for representative perioder. Disse er presentert som tabeller over de enkelte tidevannsestimater, i form av tidevannsellipseparametere. Av størst interesse er amplitydene, som er gitt som ellipsens "MAJOR" and "MINOR" halvaksler (NB! i mm/s).

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2. Vindmålingene

Vindmålingene er presentert i følgende rekkefølge:

Tidsserie av vindkastfart

Tidsserie av vindfart

Tidsserie av vind, nordkomponent

Tidsserie av vind, østkomponent

Tidsserie av lufttrykk

Tidsserie av vannstand

Progressivt vektordiagram for vind

Tabell 1. Oversikt over feltmålinger, Ytre Oslofjord 1988

Måleposisjon	Mai	Juni	Juli	August	Sept.	Okt.	Nov.
Drøbaksundet Ø 5m	—————					—————	
Drøbaksundet V 5m	—————						
Fulehuk 5m		—————					
Misingene 5m	—————			—————		—————	
10m				—————		—————	
20m				—————		—————	
30m				—————		—————	
Grisebådarna 10m	—————			—————	—————		
20m	—————			—————	—————		
30m	—————			—————	—————		
50m	—————			—————			
Rauer Vind		—————					

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Tabell 2: Posisjoner for strmlerrigger og vrstasjon,
Ytre Oslofjord, mai-november 1988.

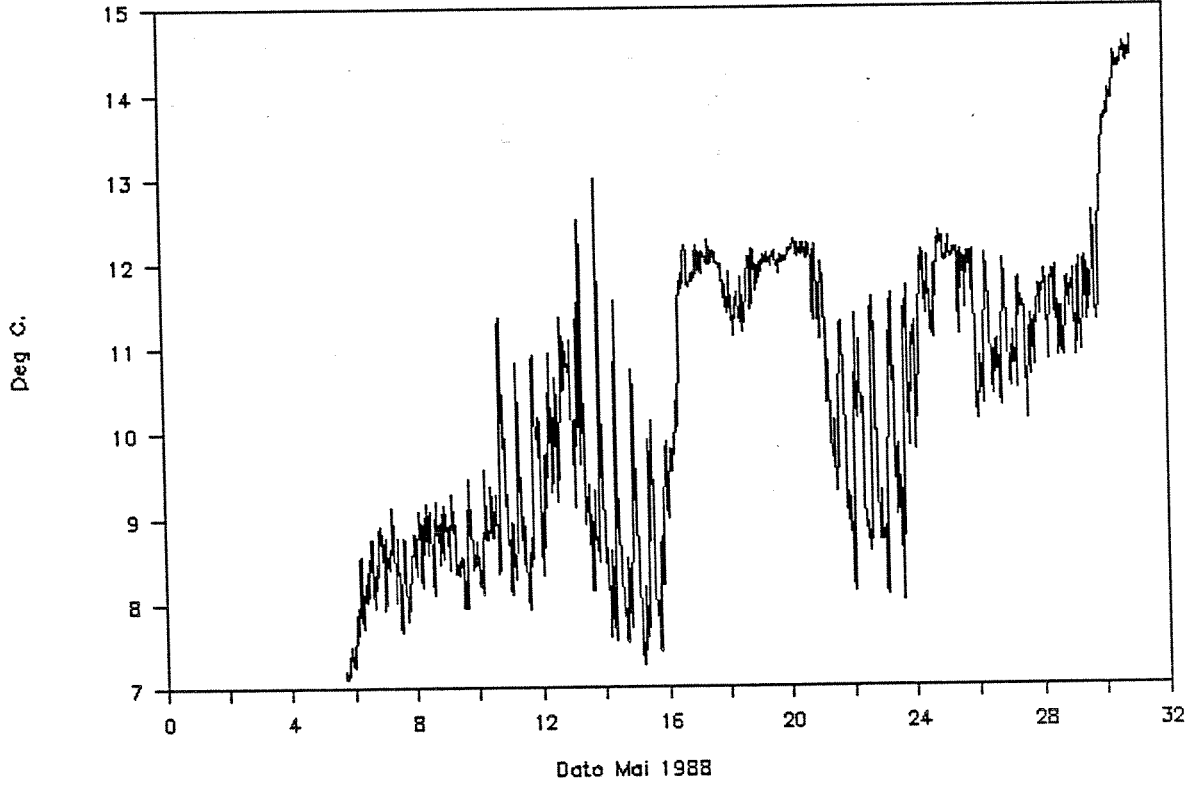
Droebaksundet st:	N 59 35.0 E 10 39.0
Droebaksundet Vest:	N 59 35.0 E 10 37.5
Misingene:	N 59 10.2 E 10 42.2
Fulehuk:	N 59 10.2 E 10 36.5
Grisebaadene:	N 58 53.8 E 10 47.9
Rauer:	N 59 14.0 E 10 42.0

FINAL ANALYSIS RESULTS IN CURRENT ELLIPSE FORM
 FOR STATION 9999, DROEBAK WEST 5 METERS ,AT THE LOCATION 59 35, 10 38
 OVER THE PERIOD OF 18HR 6/ 5/88 TO 23HR 31/ 7/88
 GREENWICH PHASES ARE FOR TIME ZONE GMT

NAME	SPEED	MAJOR	MINOR	INC	G	G+	G-
1 ZO	.00000000	38.508	.000	84.1	180.0	95.9	264.1
2 MM	.00151215	14.394	4.378	103.6	87.3	343.7	190.9
3 MSF	.00282193	10.764	-1.597	76.0	196.3	120.2	272.3
4 ALP1	.03439657	4.663	-.694	61.1	331.8	270.7	32.9
5 2Q1	.03570635	7.982	.405	64.7	132.4	67.8	197.1
6 Q1	.03721850	9.628	-.882	81.8	164.9	83.1	246.7
7 O1	.03873065	17.757	-.412	94.5	240.8	146.3	335.3
8 NO1	.04026860	5.126	-.501	112.2	152.8	40.7	265.0
9 K1	.04178075	16.442	-.892	89.0	25.9	296.9	114.8
10 J1	.04329290	5.015	.133	72.2	214.9	142.7	287.1
11 OO1	.04483084	1.616	.355	128.9	196.0	67.1	324.8
12 UPS1	.04634299	2.232	.740	30.2	142.3	112.1	172.5
13 EPS2	.07617731	9.421	-.599	92.4	18.5	286.1	110.9
14 MU2	.07768947	37.581	-.267	84.6	355.5	270.9	80.1
15 N2	.07899925	26.357	-.727	73.9	124.1	50.2	198.0
16 M2	.08051140	125.096	-.223	86.9	178.5	91.5	265.4
17 L2	.08202355	34.324	.079	96.0	269.6	173.6	5.7
18 S2	.08333334	20.097	-.682	83.0	116.5	33.5	199.5
19 ETA2	.08507364	5.771	-1.322	88.6	282.6	194.0	11.2
20 MO3	.11924210	1.745	.480	84.6	3.3	278.7	88.0
21 M3	.12076710	2.820	-.908	143.2	109.2	326.0	252.4
22 MK3	.12229210	9.679	-1.975	99.0	273.6	174.6	12.6
23 SK3	.12511410	4.654	-.537	91.3	258.0	166.7	349.2
24 MN4	.15951060	.975	-.316	89.7	62.9	333.3	152.6
25 M4	.16102280	25.051	.279	84.2	128.2	44.1	212.4
26 SN4	.16233260	10.751	-1.433	78.1	172.8	94.7	250.9
27 MS4	.16384470	6.443	-.992	65.1	304.6	239.4	9.7
28 S4	.16666670	2.573	.369	138.8	57.9	279.1	196.6
29 2MK5	.20280360	5.810	-.167	89.0	218.6	129.6	307.7
30 2SK5	.20844740	1.884	-.103	129.3	180.2	51.0	309.5
31 2MN6	.24002200	9.869	-2.456	90.9	260.3	169.4	351.3
32 M6	.24153420	12.763	-.497	91.4	335.0	243.6	66.4
33 2MS6	.24435610	10.538	.411	90.4	12.5	282.1	102.9
34 2SM6	.24717810	2.165	-.442	124.4	330.5	206.1	94.9
35 3MK7	.28331490	3.880	-.220	73.3	197.2	123.9	270.5
36 M8	.32204560	2.901	-1.017	106.3	232.3	126.0	338.6

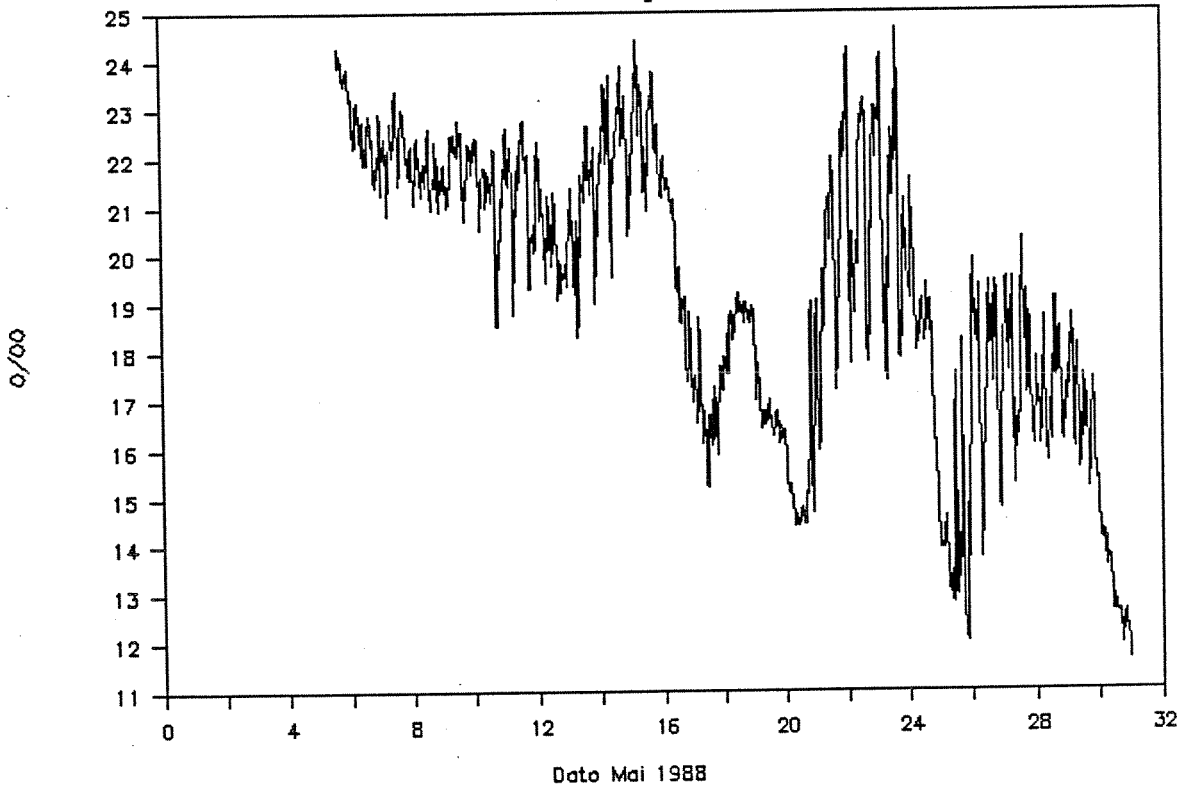
Drøbaksundet vest 5 m

Temperatur



Drøbaksundet vest 5 m

Saltholdighet

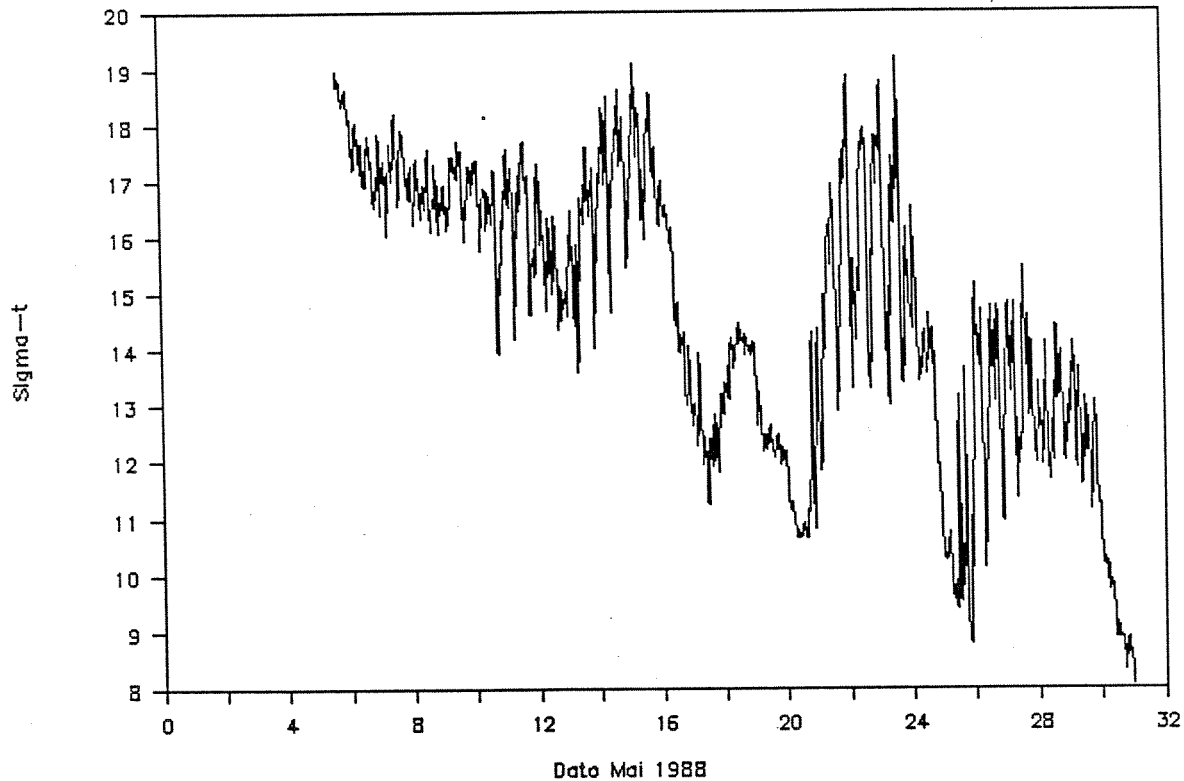


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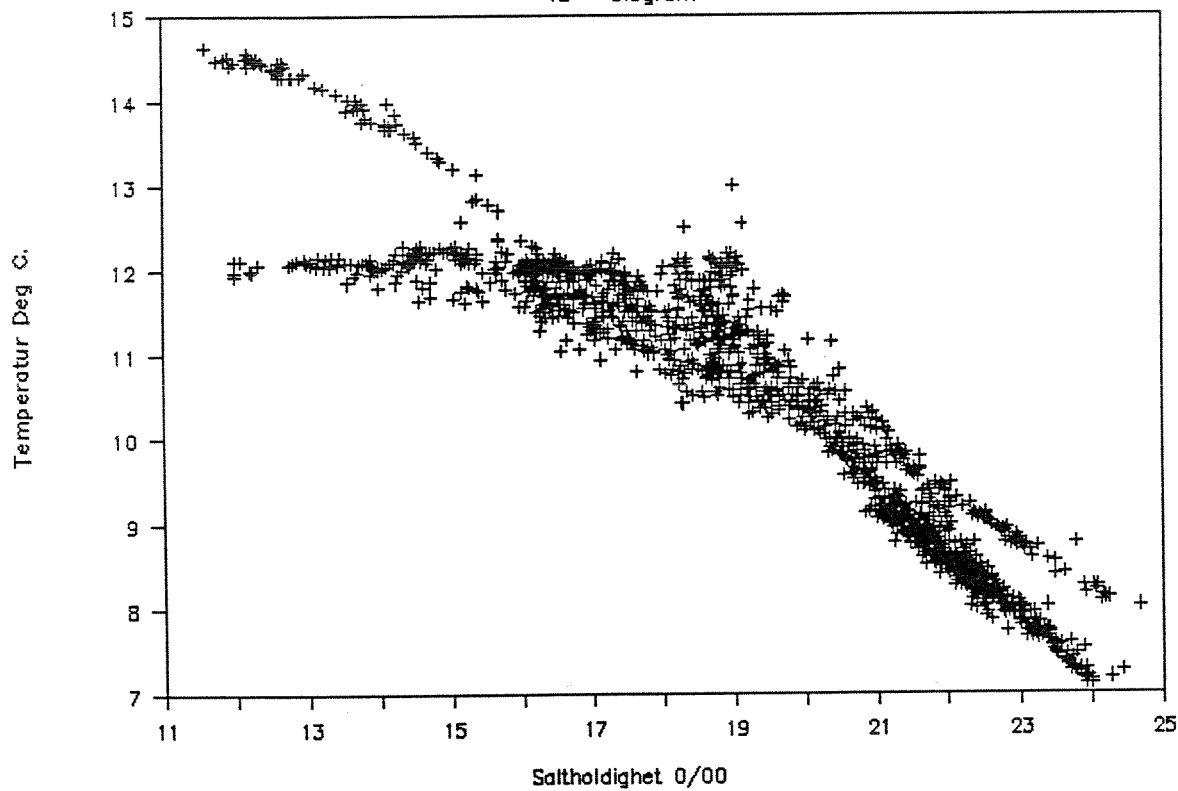
Drøbakundet vest 5 m

Tetthet



Drøbakundet vest 5 m Mai 1988

TS - Diagram

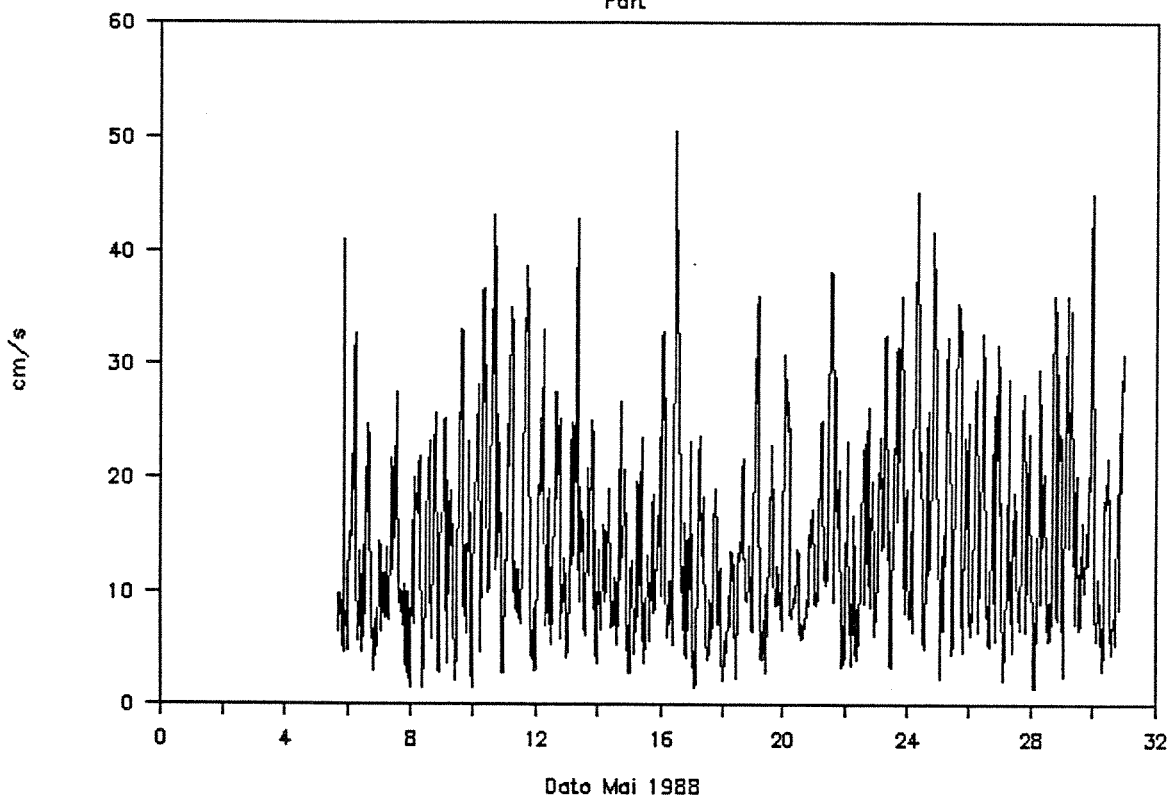


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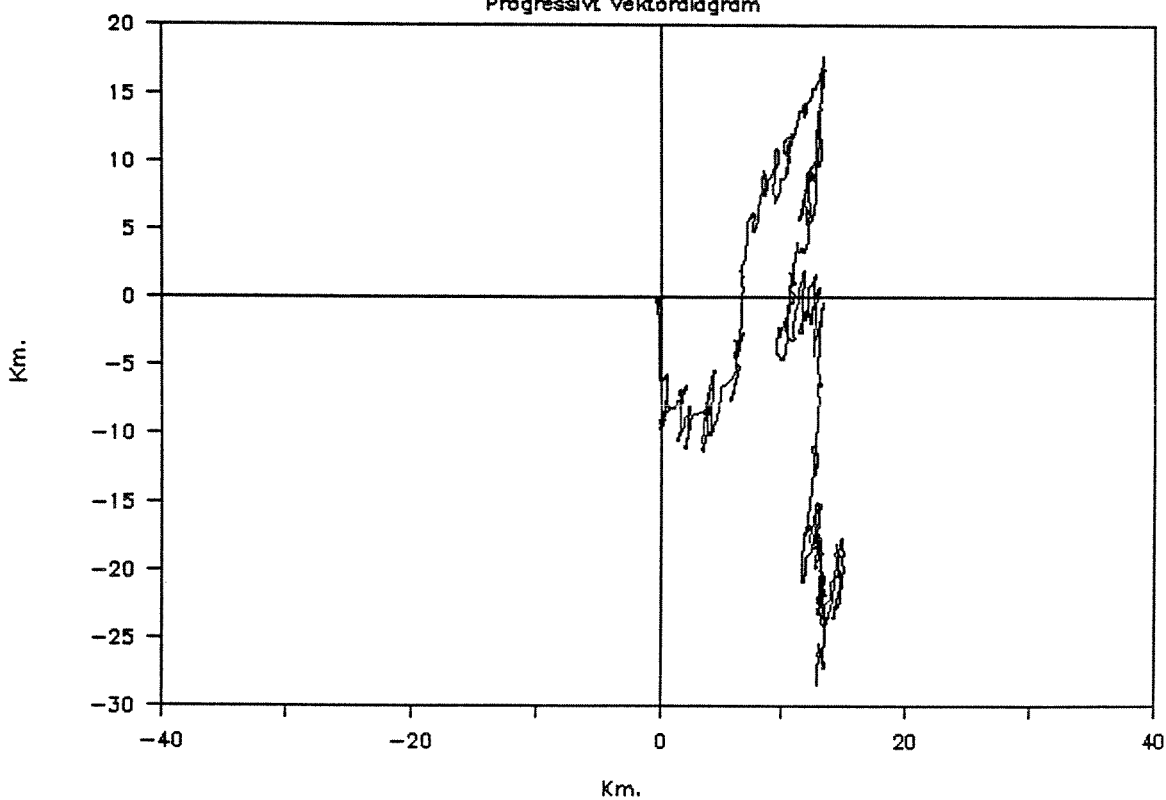
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Fart



Drøbaksundet vest 5 m Mai 1988

Progressivt Vektordiagram

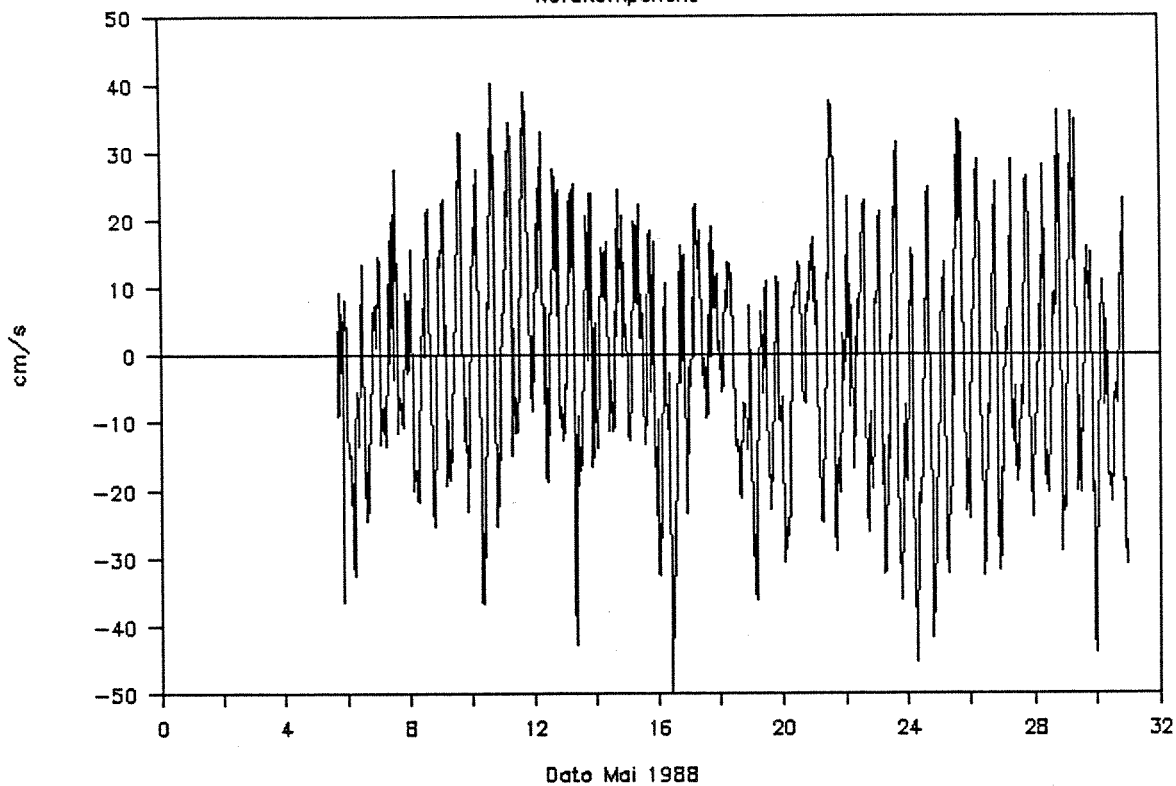


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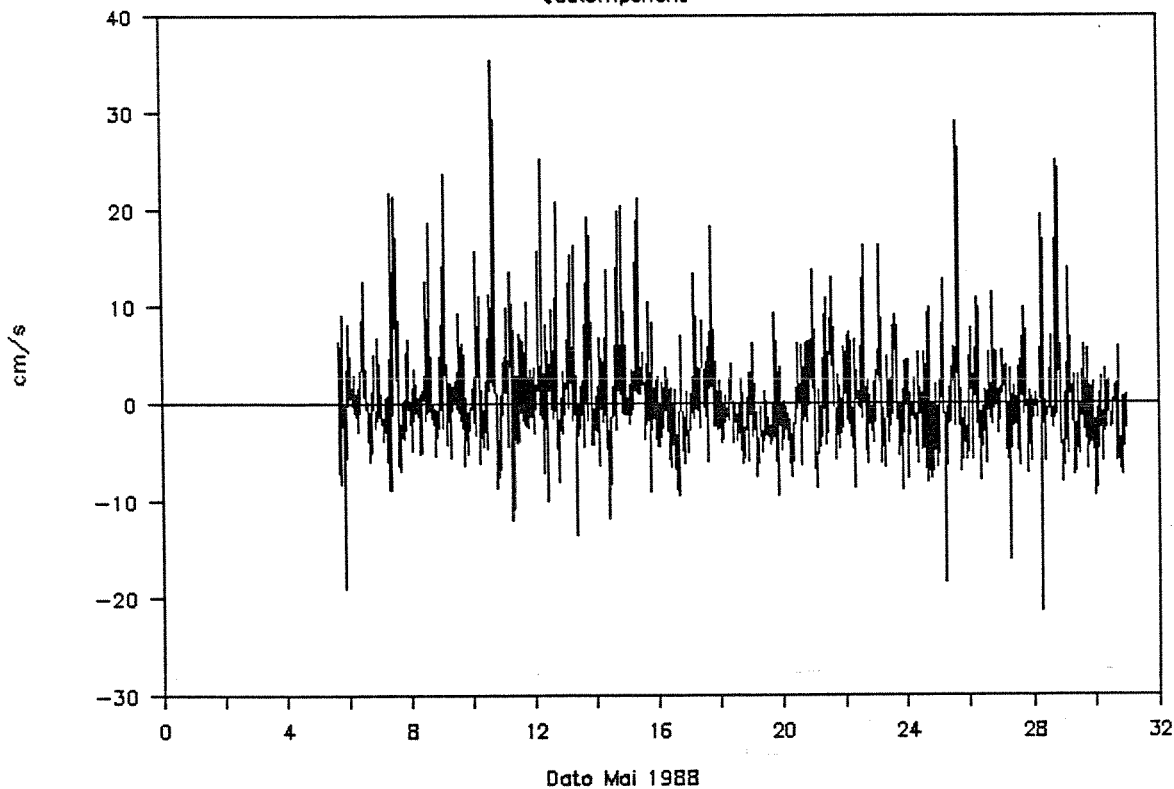
Drøbaksundet vest 5 m

Nordkomponent



Drøbaksundet vest 5 m

østkomponent

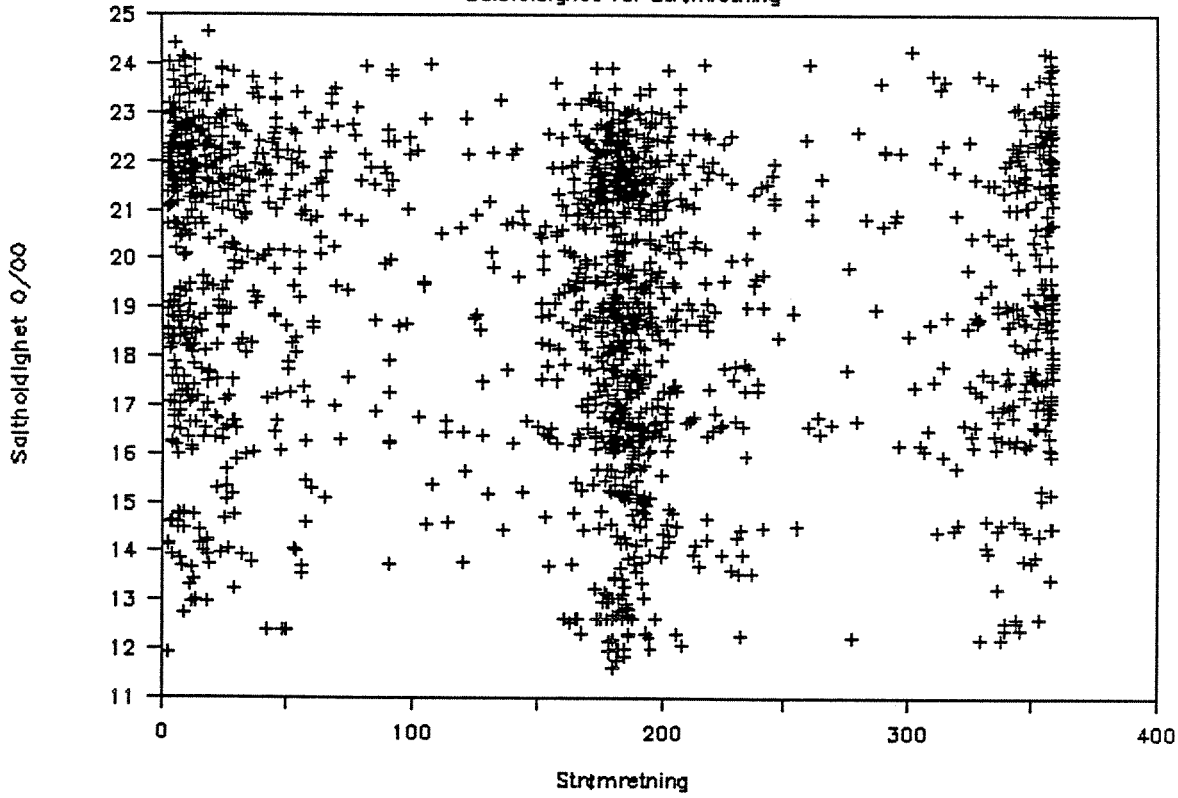


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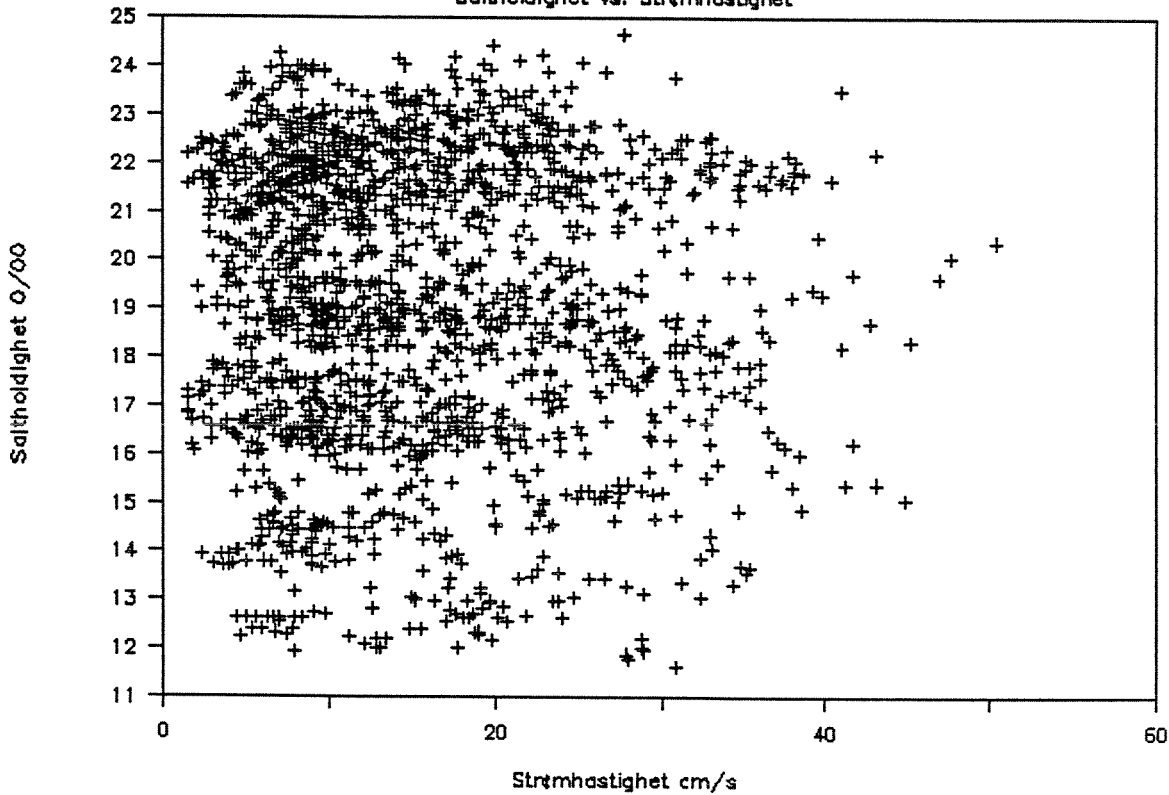
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Saltholdighet vs. Strømretning



Drøbaksundet vest 5 m Mai 1988

Saltholdighet vs. Strømhastighet

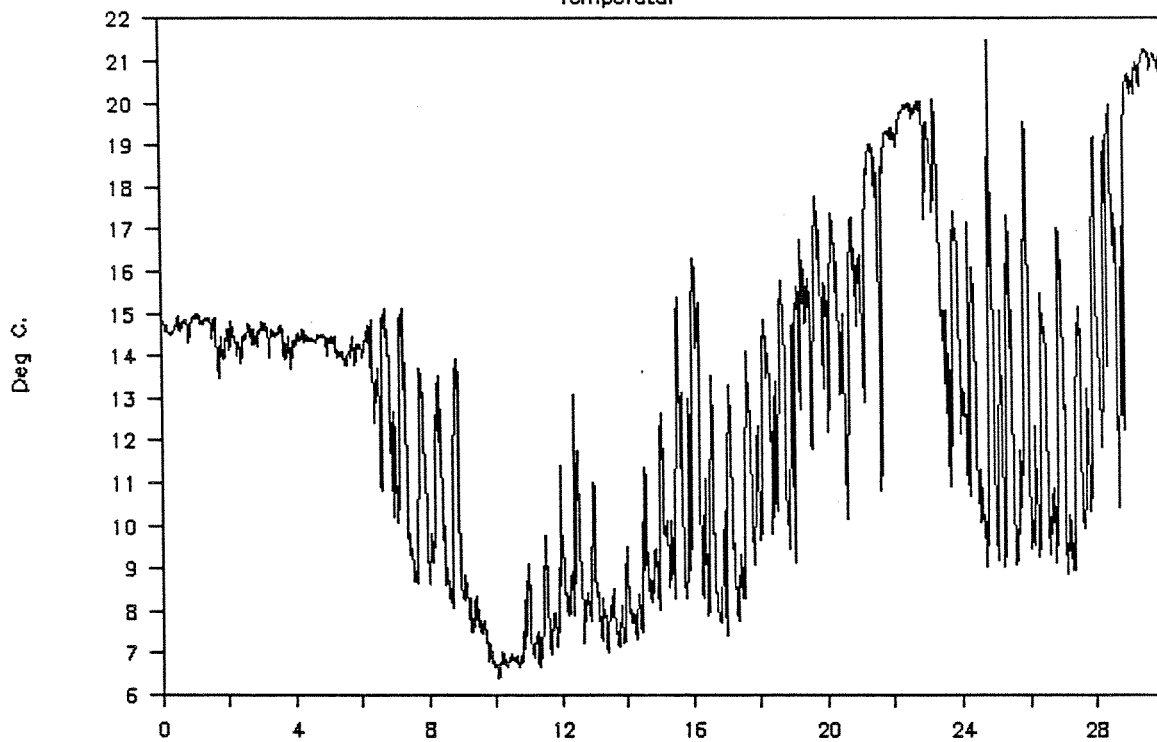


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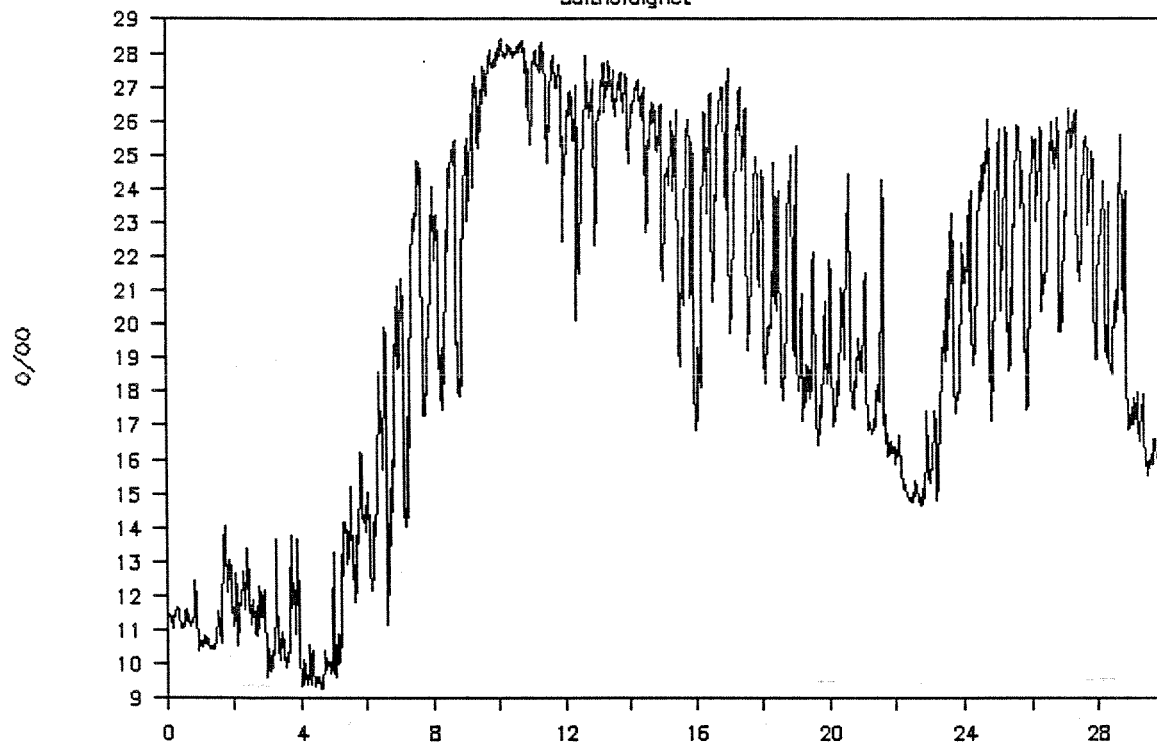
Temperatur



Dato Juni 1988

Drøbaksundet vest 5m.

Saltholdighet



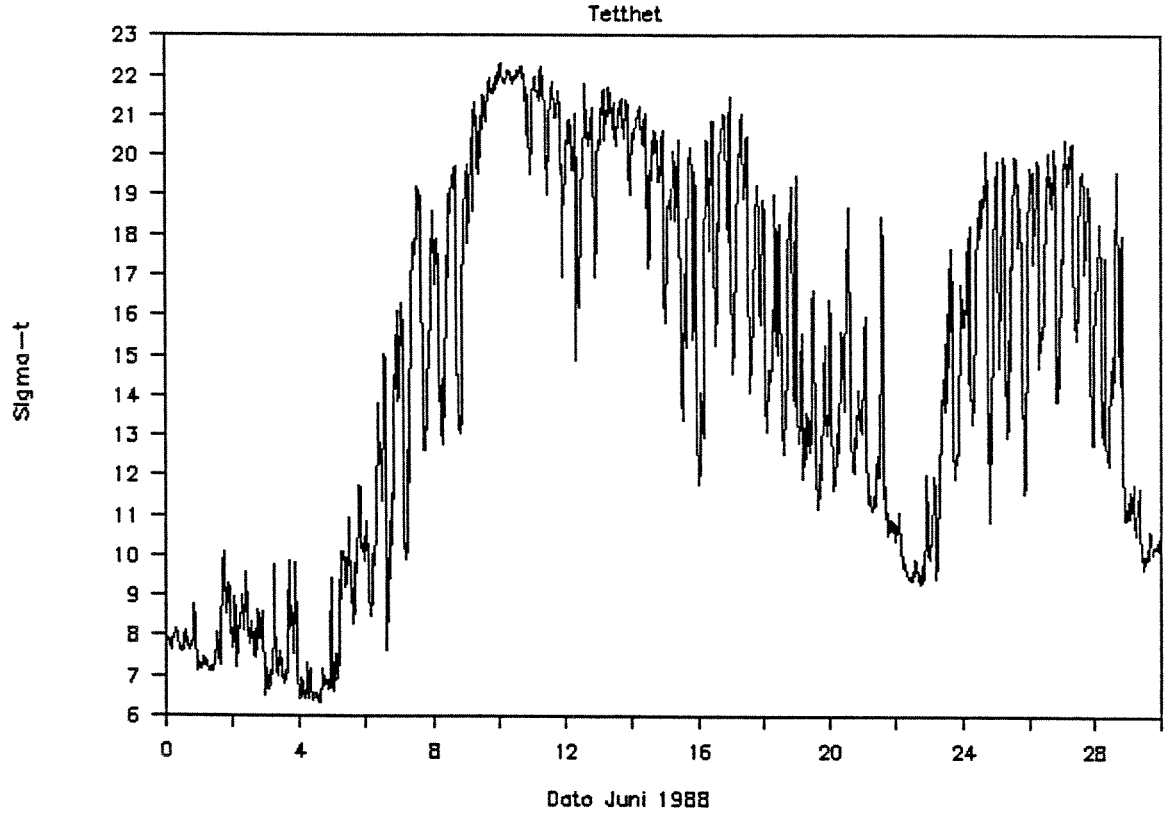
Dato Juni 1988



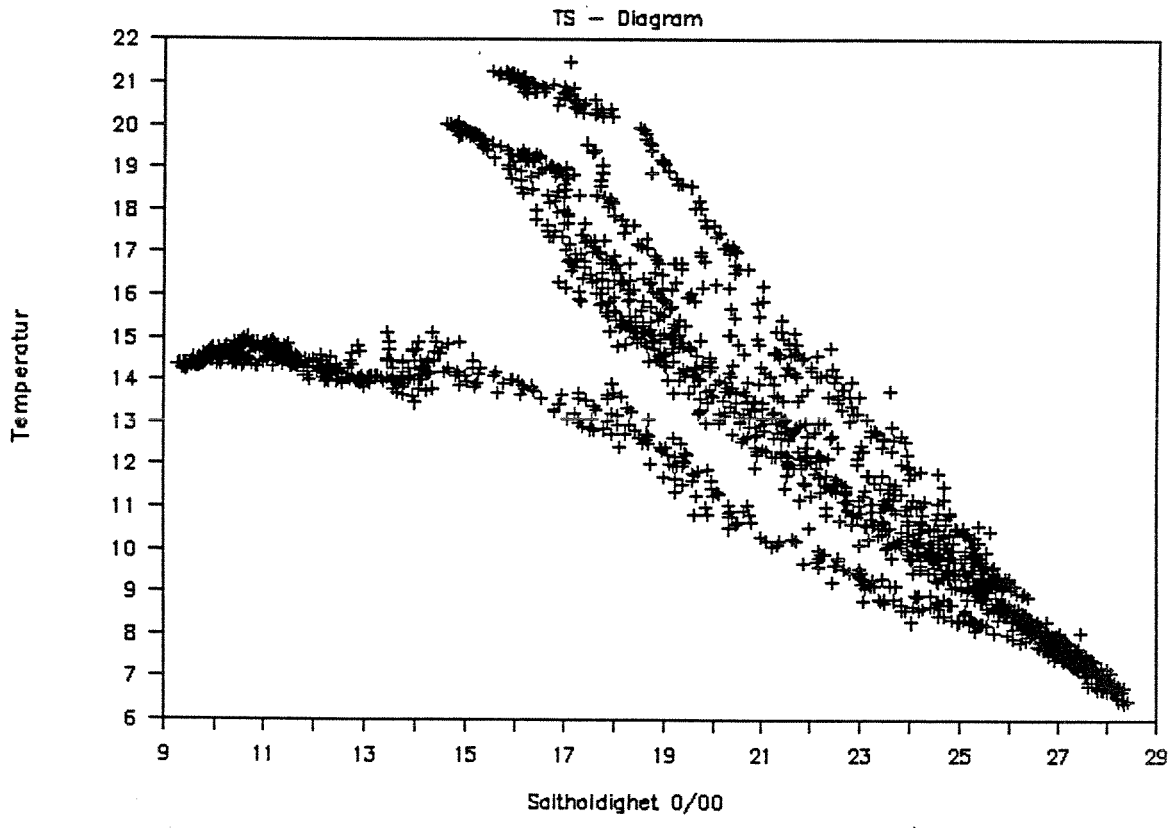
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Drøbaksundet vest 5m.



Drøbaksundet vest 5m Juni 1988

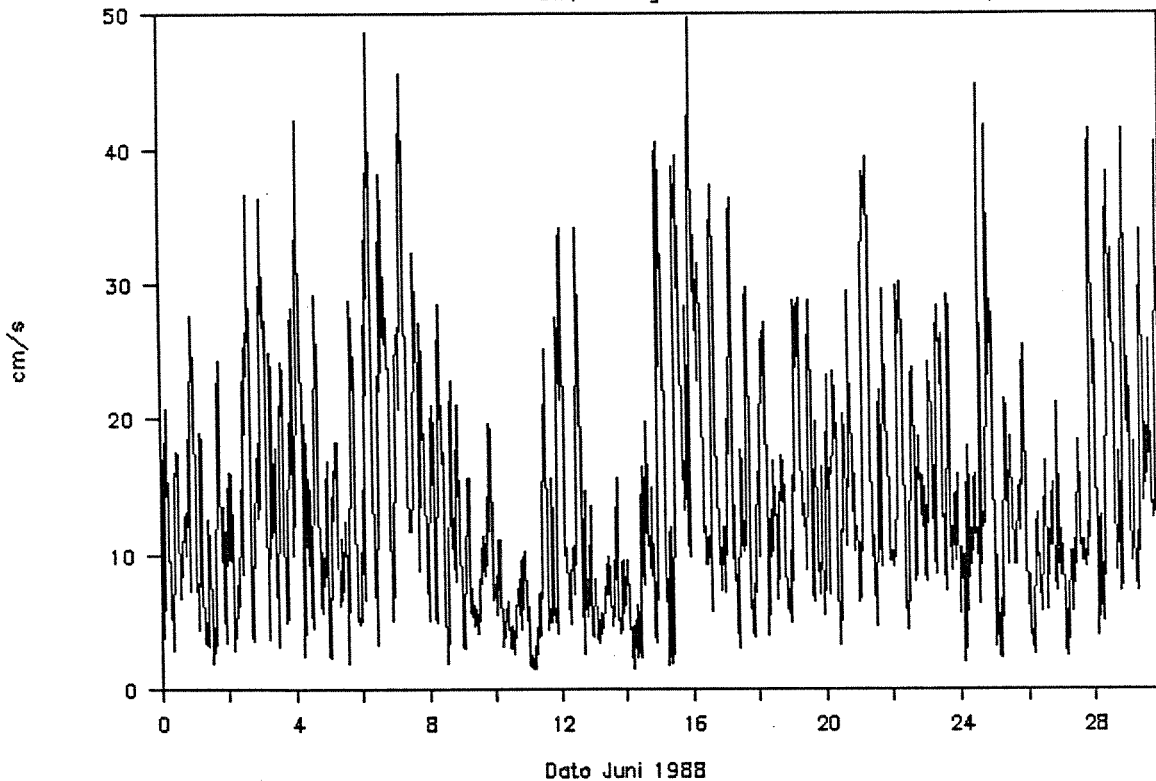


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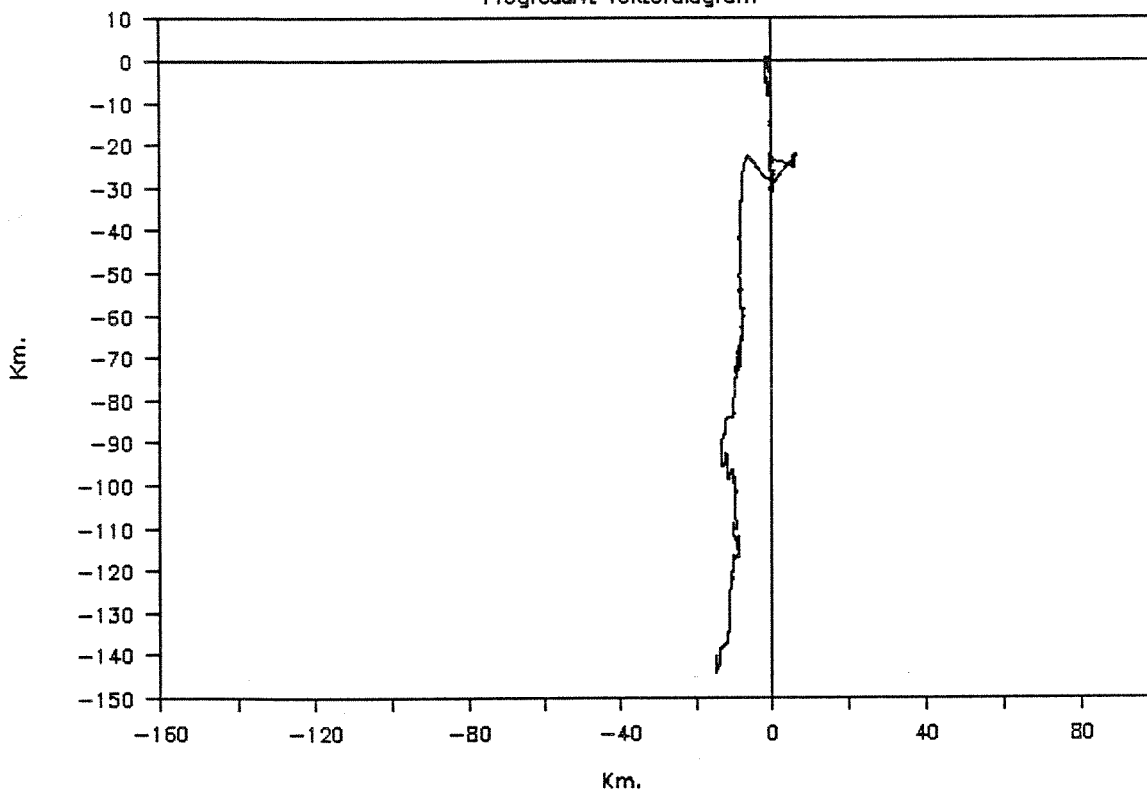
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Strømhastighet



Drøbaksundet vest 5m Juni 1988

Progressivt Vektordiagram

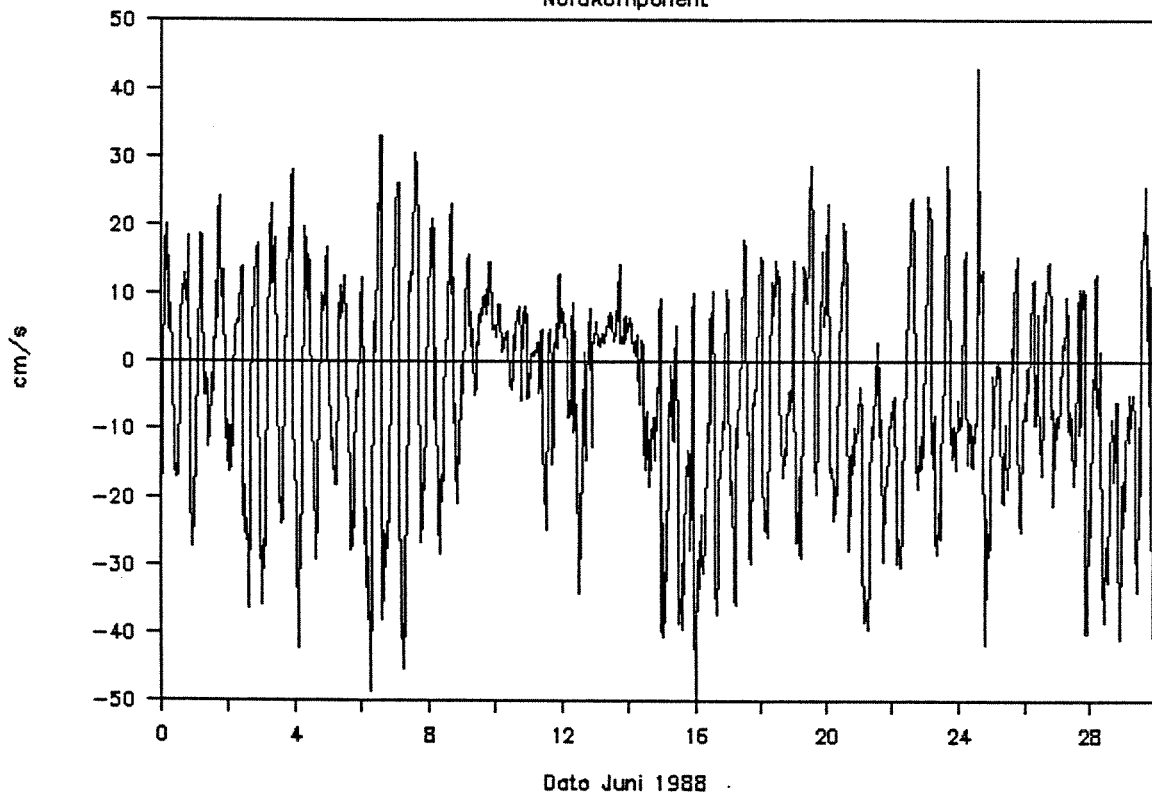


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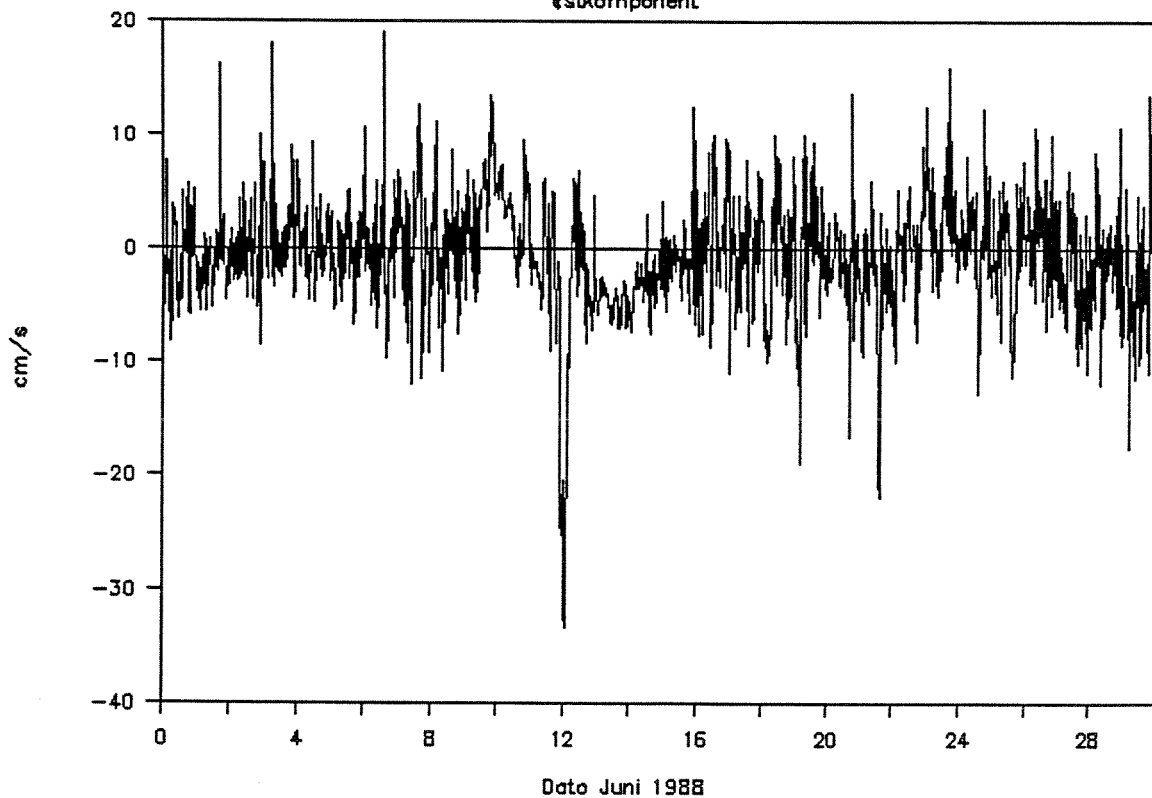
Drøbaksundet vest 5m

Nordkomponent



Drøbaksundet vest 5m

Østkomponent

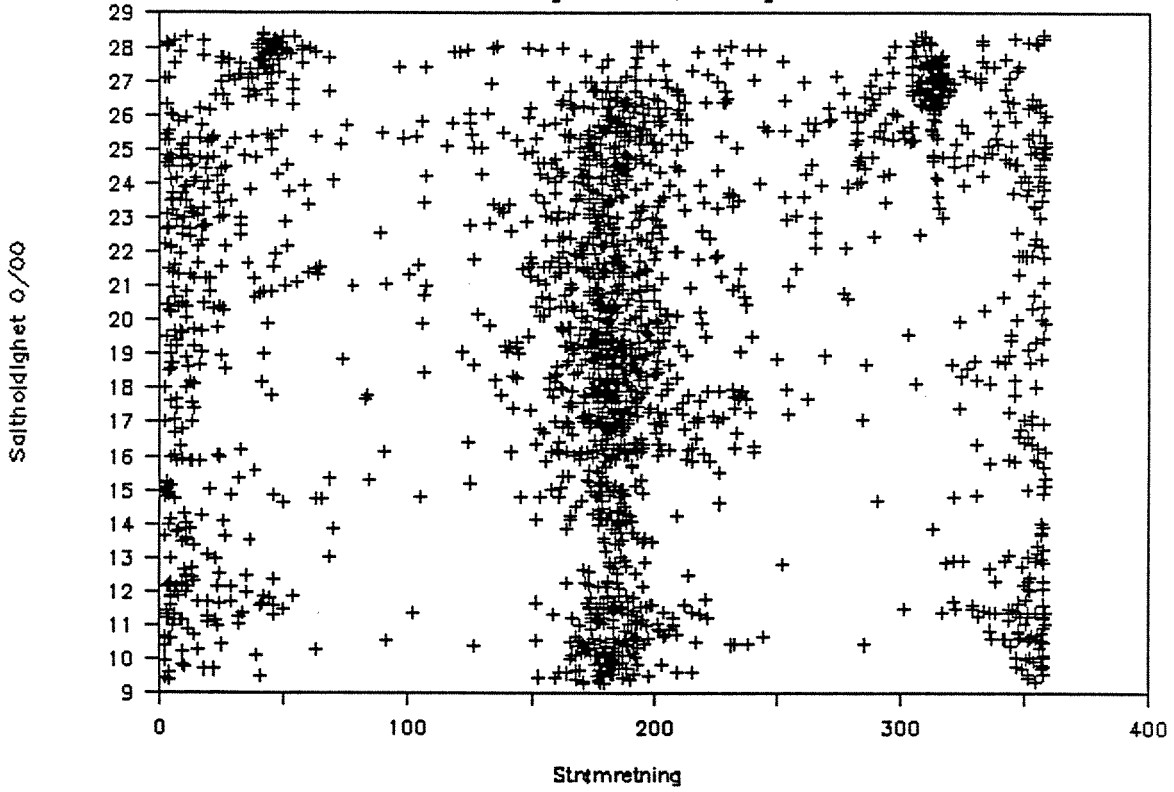


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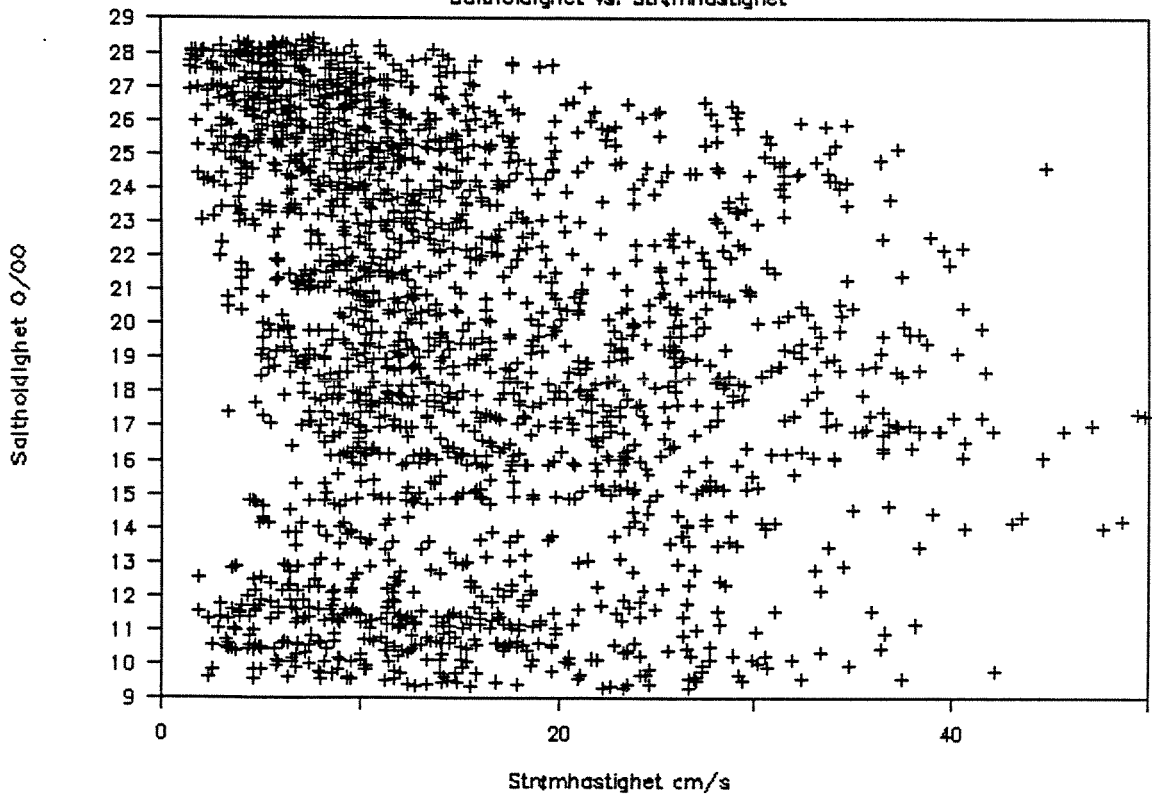
Drøbaksundet vest 5m Juni 1988

Saltholdighet vs. Strømretning



Drøbaksundet vest 5m Juni 1988

Saltholdighet vs. Strømhastighet

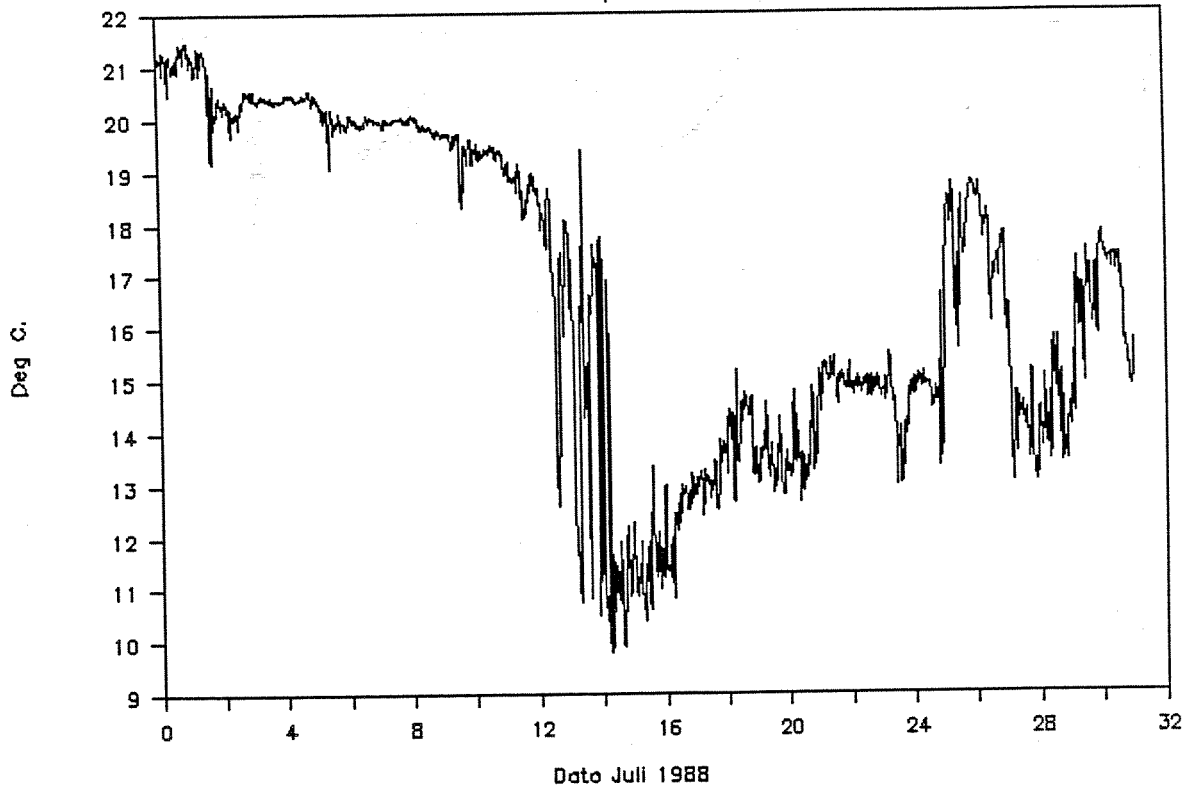


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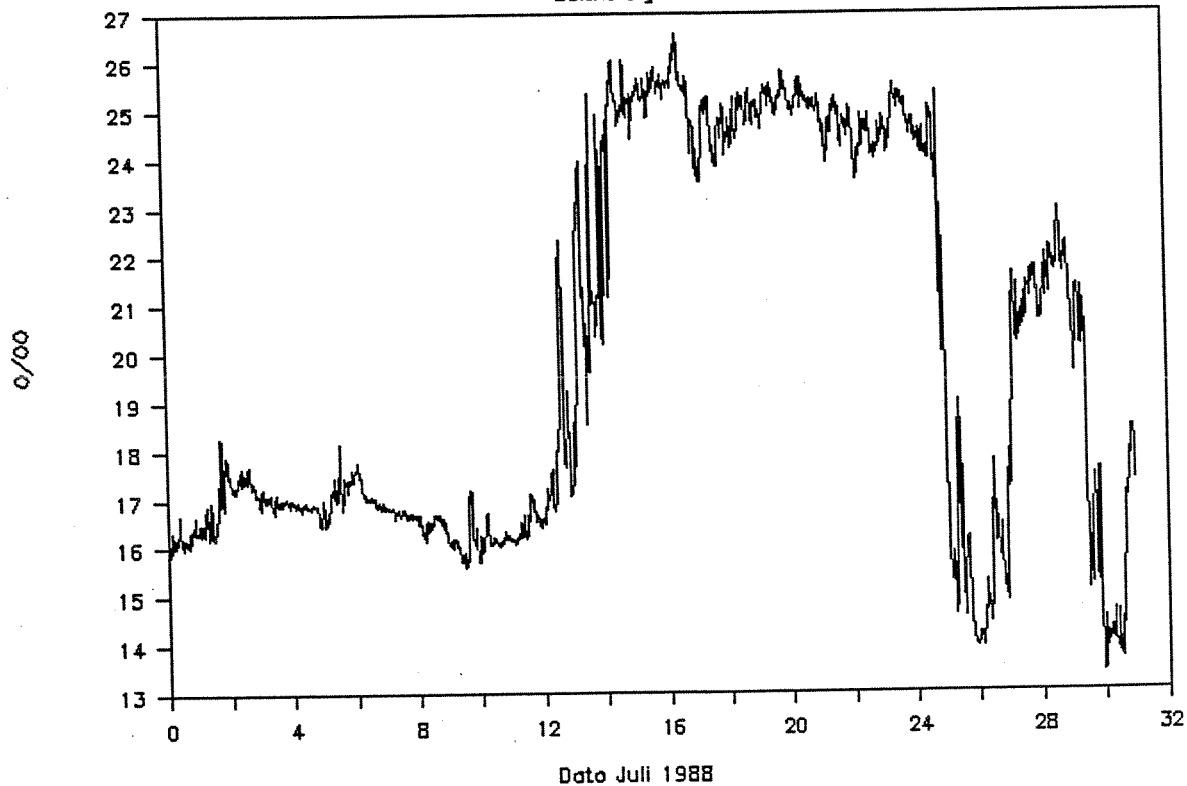
Drøbakundet vest 5 m

Temperatur

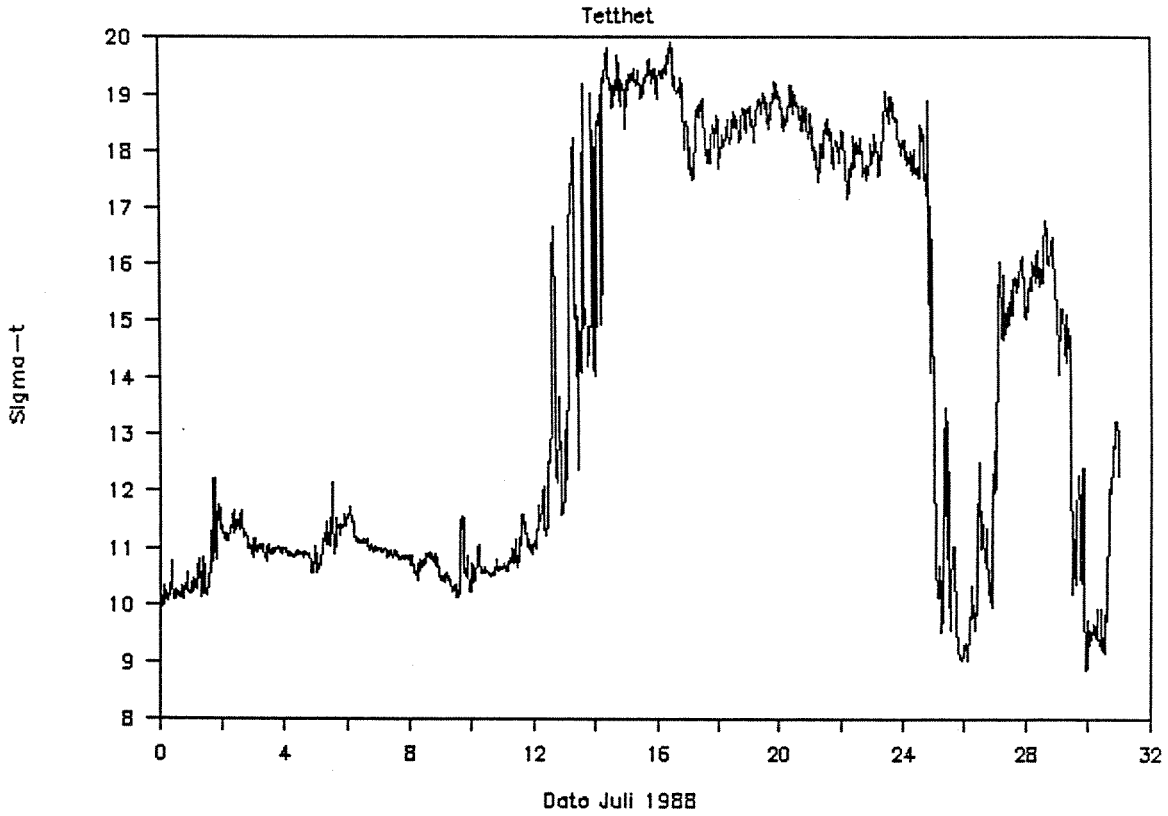


Drøbakundet vest 5 m

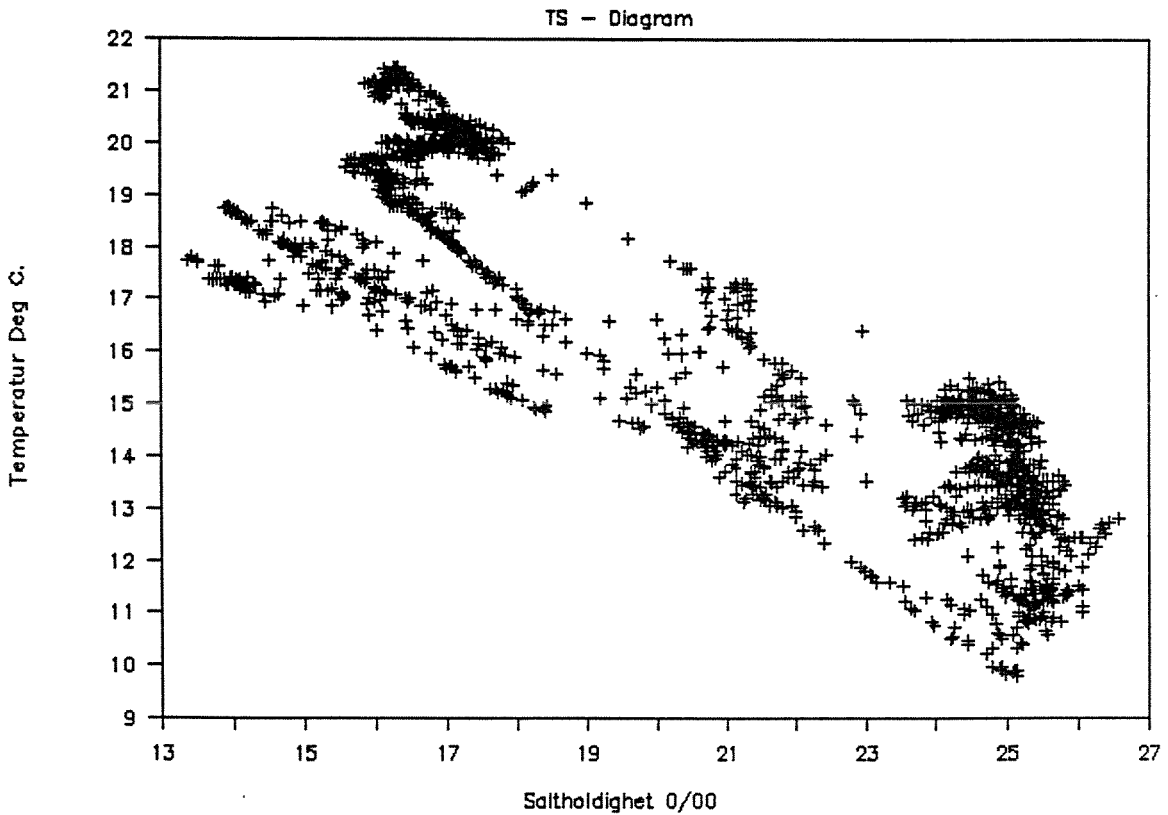
Saltholdighet

**VERITEC**Veritas Offshore Technology
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Drøbaksundet vest 5 m



Drøbaksundet vest 5 m Juli 1988

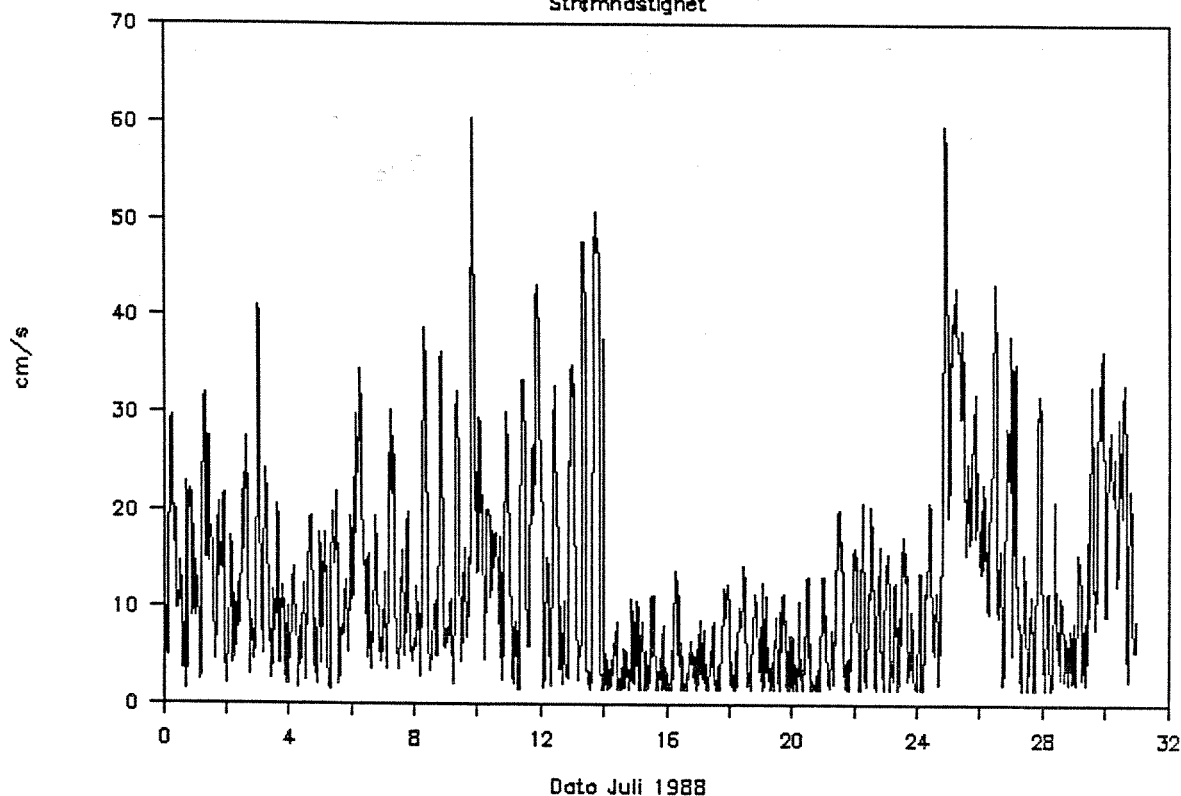


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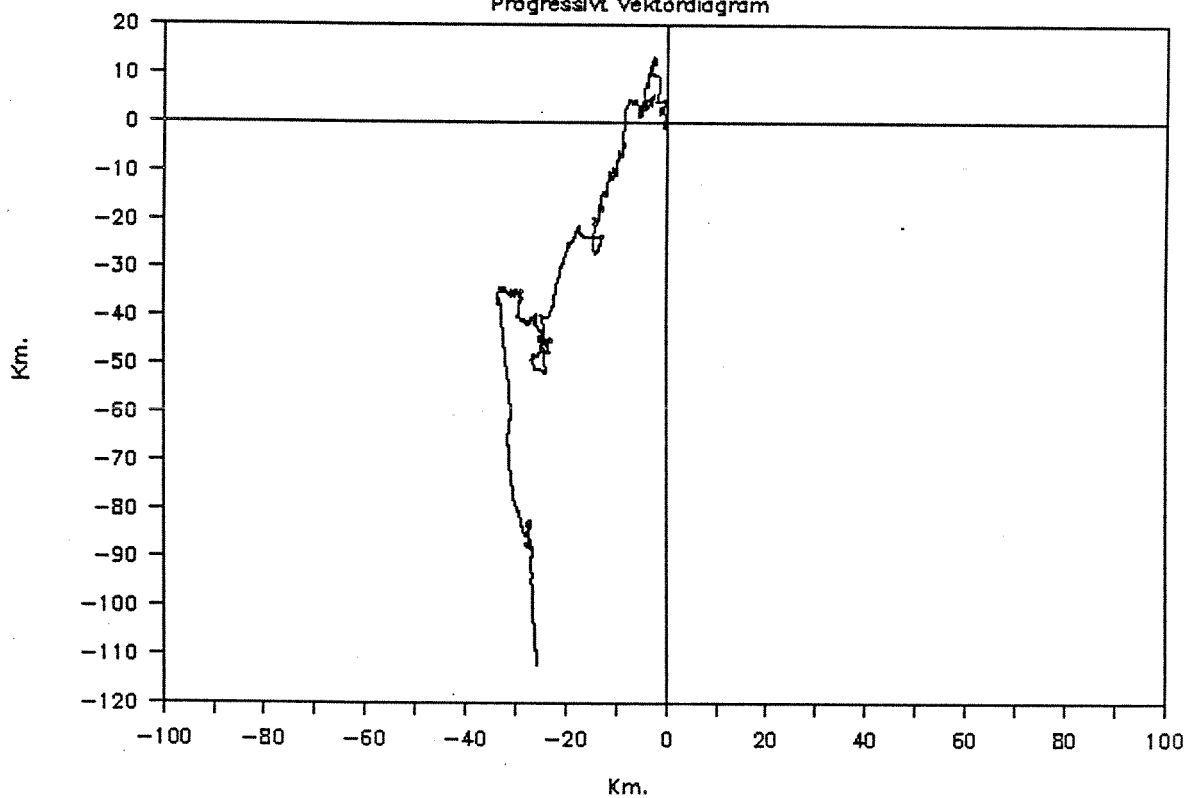
Drøbaksundet vest 5 m

Strømhastighet



Drøbaksundet vest 5 m Juli 1988

Progressivt Vektordiagram

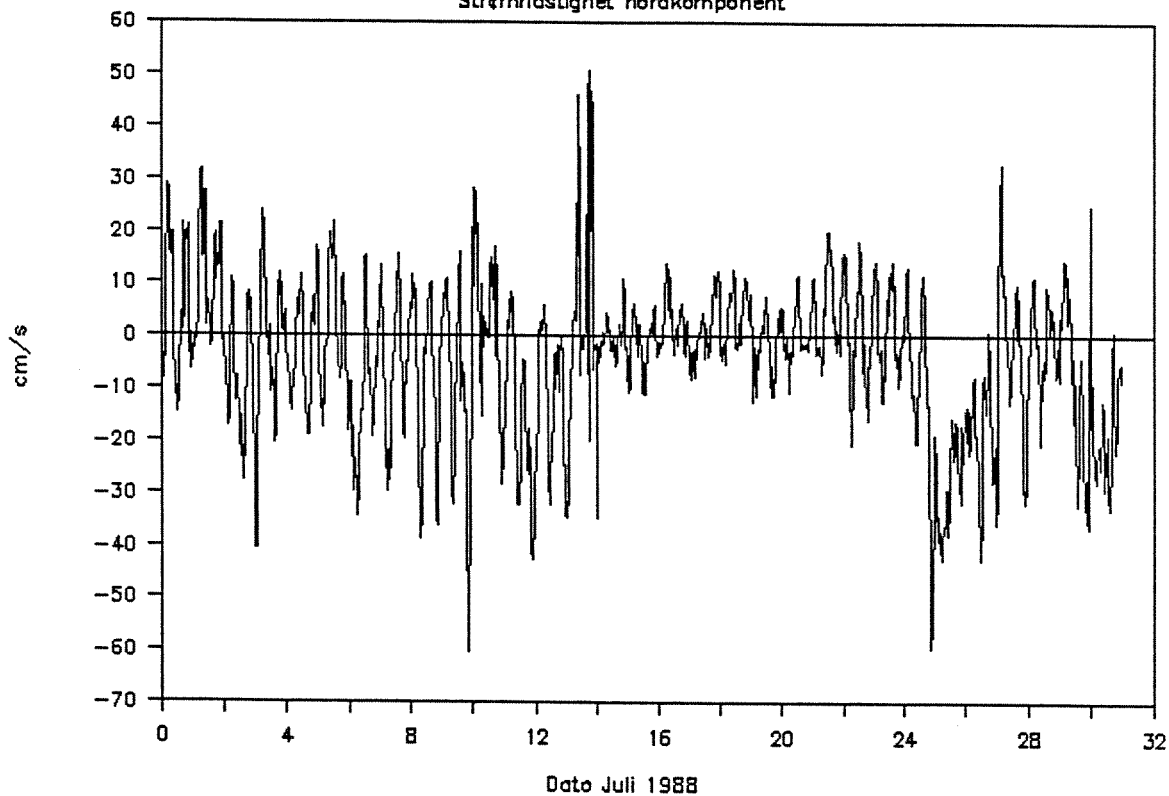


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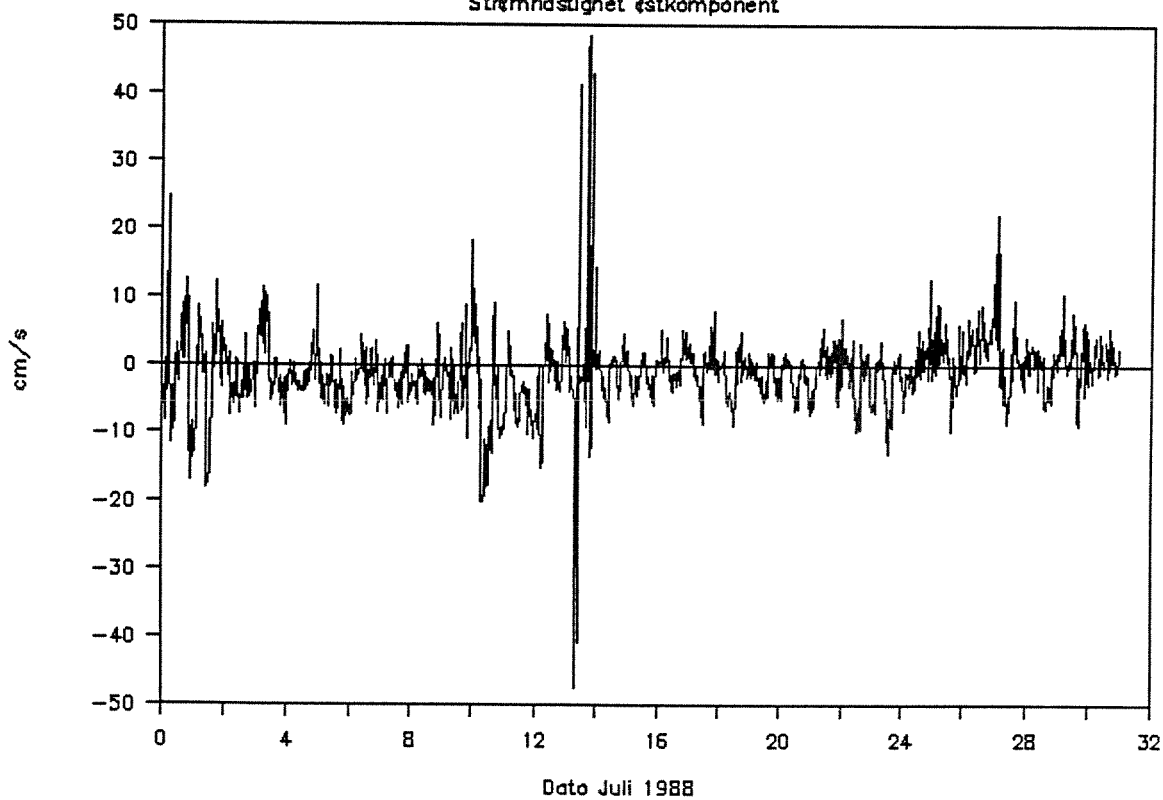
Drøbaksundet vest 5 m

Strømhastighet nordkomponent



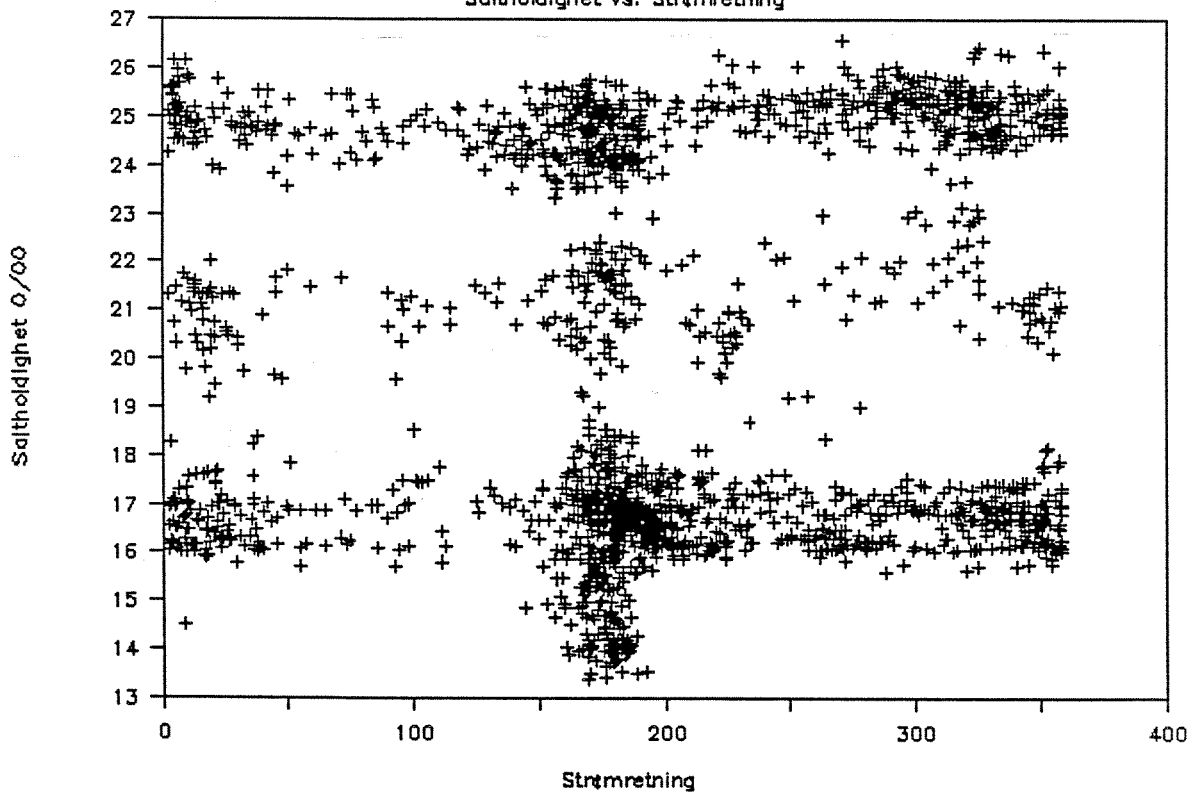
Drøbaksundet vest 5 m

Strømhastighet østkomponent

**VERITEC**Veritas Offshore Technology
and Services A/S

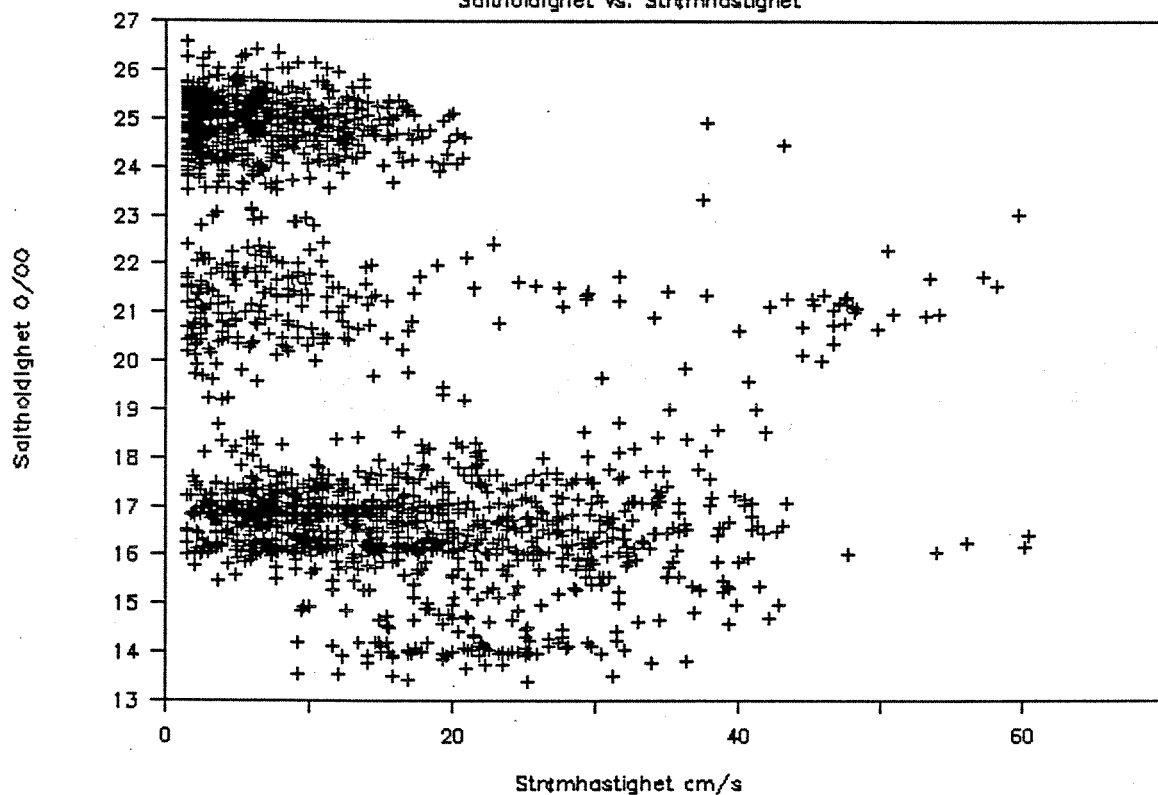
Drøbakundet vest 5 m Juli 1988

Saltholdighet vs. Strømretning



Drøbakundet vest 5 m Juli 1988

Saltholdighet vs. Strømhastighet

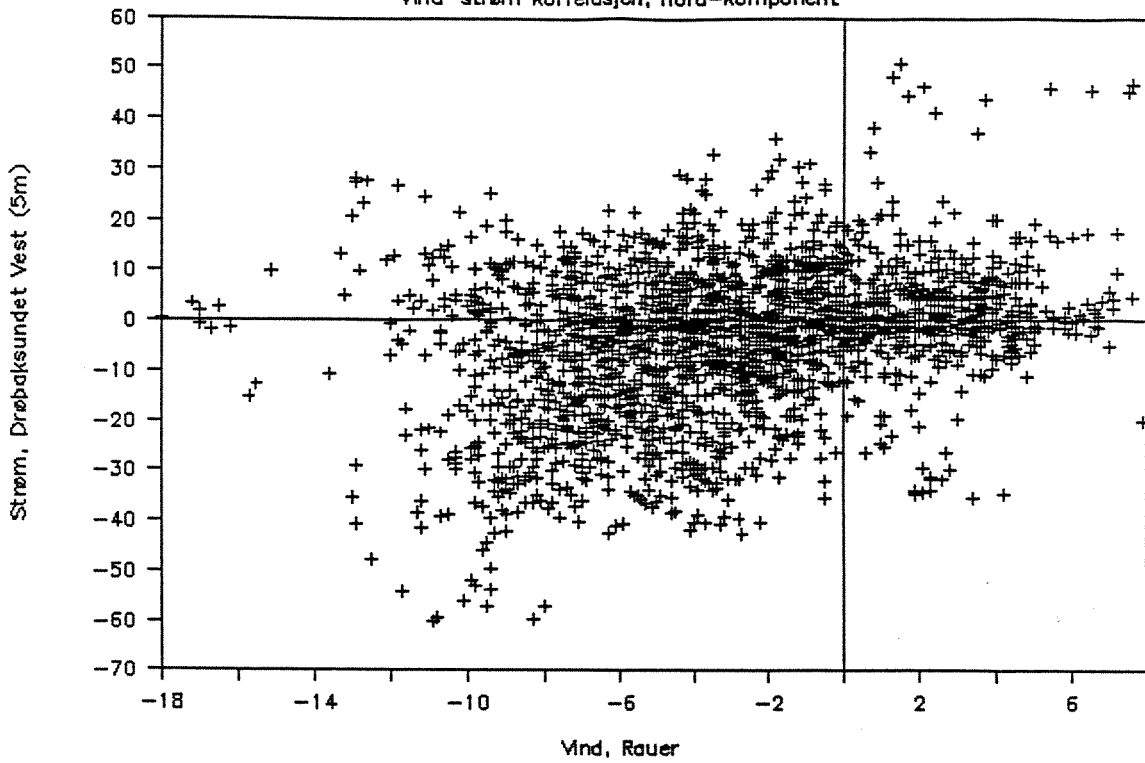


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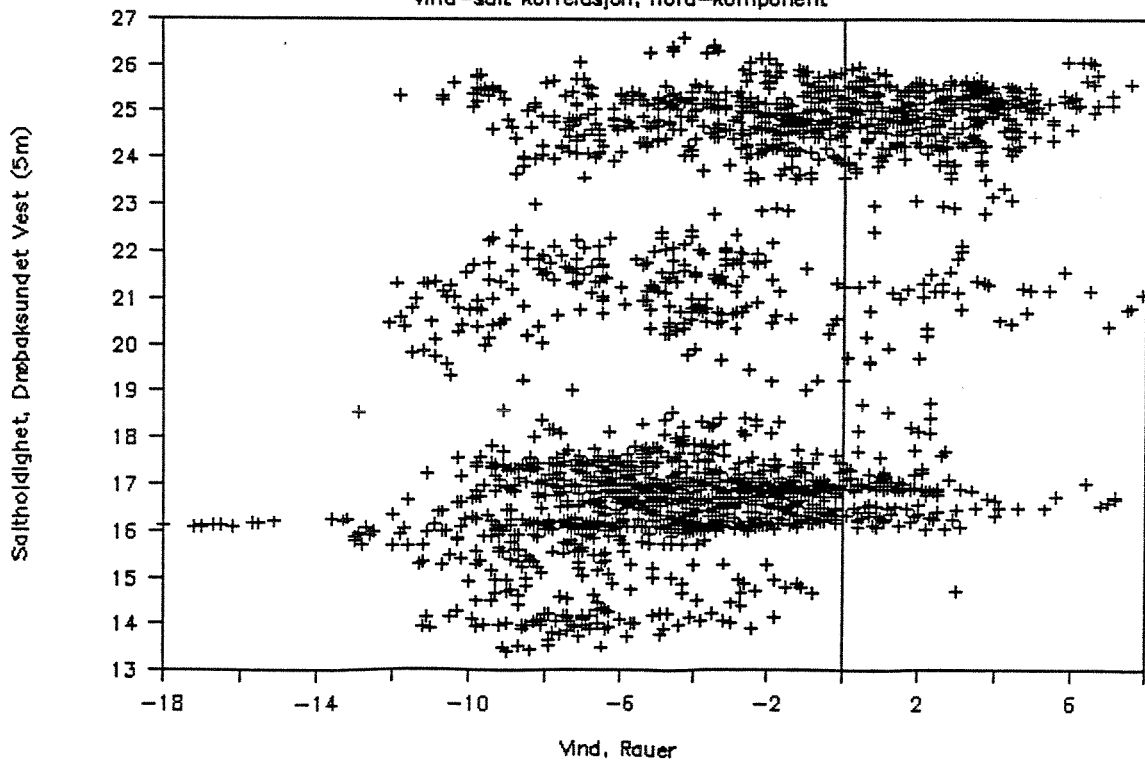
Oslofjord juli 1988

Vind-strøm korrelasjon, nord-komponent



Oslofjord juli 1988

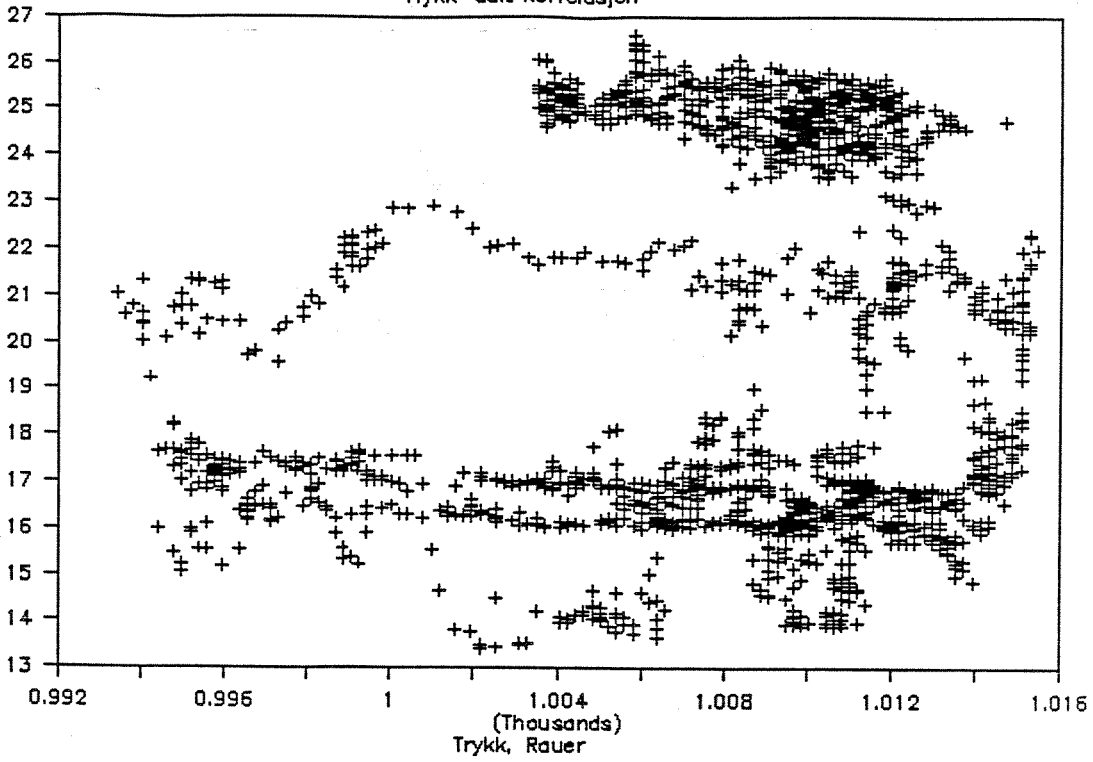
Vind-salt korrelasjon, nord-komponent

**VERITEC**Veritas Offshore Technology
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Oslofjord juli 1988

Trykk-salt korrelasjon

Saltholdighet, Drøbakundet Vest (5m)



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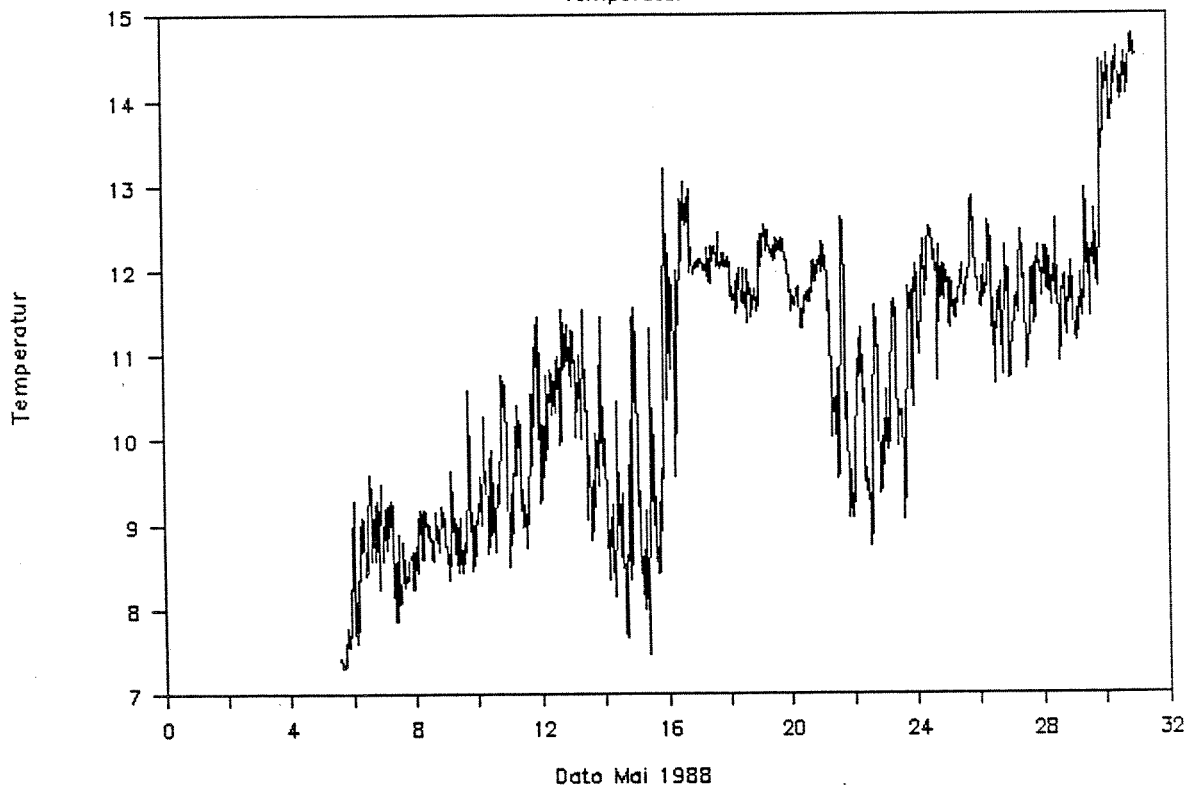
Veritas Offshore Technology
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FINAL ANALYSIS RESULTS IN CURRENT ELLIPSE FORM
 FOR STATION 9999, DROEBAK EAST 5 METERS ,AT THE LOCATION 59 35, 10 39
 OVER THE PERIOD OF 15HR 6/ 5/88 TO 23HR 30/ 6/88
 GREENWICH PHASES ARE FOR TIME ZONE GMT

NAME	SPEED	MAJOR	MINOR	INC	G	G+	G-
1 Z0	.00000000	31.151	.000	85.4	360.0	274.6	85.4
2 MM	.00151215	12.297	-1.832	99.2	49.0	309.8	148.1
3 MSF	.00282193	26.287	.755	84.7	51.3	326.6	136.0
4 ALP1	.03439657	9.536	1.465	86.7	312.3	225.6	39.1
5 2Q1	.03570635	10.970	-1.553	87.3	200.6	113.3	287.9
6 Q1	.03721850	7.014	.823	77.8	36.4	318.7	114.2
7 O1	.03873065	13.563	1.544	70.4	224.0	153.6	294.4
8 NO1	.04026860	.997	-.287	71.3	213.6	142.2	284.9
9 K1	.04178075	20.090	-.989	90.7	90.7	359.9	181.4
10 J1	.04329290	9.178	-1.974	76.2	354.5	278.2	70.7
11 001	.04483084	3.711	.186	90.3	43.6	313.4	133.9
12 UPS1	.04634299	1.677	-.003	116.0	51.9	295.9	167.8
13 EPS2	.07617731	13.606	.544	75.2	323.3	248.1	38.5
14 MU2	.07768947	50.296	3.429	84.2	7.2	283.0	91.4
15 N2	.07899925	38.938	3.707	82.3	141.5	59.2	223.8
16 M2	.08051140	162.555	-.675	83.9	200.0	116.1	283.9
17 L2	.08202355	36.306	-1.796	83.8	288.6	204.9	12.4
18 S2	.08333334	33.179	-.086	82.7	160.0	77.3	242.6
19 ETA2	.08507364	4.945	-1.315	86.3	125.1	38.8	211.5
20 MO3	.11924210	4.453	1.688	59.3	137.7	78.4	197.1
21 M3	.12076710	2.661	.582	57.3	167.3	110.1	224.6
22 MK3	.12229210	6.123	.391	93.7	294.0	200.3	27.7
23 SK3	.12511410	4.534	-.706	76.3	241.8	165.5	318.1
24 MN4	.15951060	5.902	.945	121.4	176.0	54.6	297.4
25 M4	.16102280	27.123	2.474	89.1	176.0	86.8	265.1
26 SN4	.16233260	16.625	-.332	82.1	211.6	129.5	293.7
27 MS4	.16384470	4.891	-3.515	76.7	338.8	262.1	55.5
28 S4	.16666670	2.819	.198	89.6	255.5	165.8	345.1
29 2MK5	.20280360	2.534	.028	14.0	200.8	186.8	214.8
30 2SK5	.20844740	3.333	-1.730	99.8	247.7	147.9	347.5
31 2MN6	.24002200	6.030	1.321	69.8	352.6	282.9	62.4
32 M6	.24153420	10.396	.919	86.4	55.1	328.7	141.4
33 2MS6	.24435610	6.887	.123	86.3	102.1	15.8	188.4
34 2SM6	.24717810	4.222	-.813	26.3	174.6	148.3	200.8
35 3MK7	.28331490	3.554	-1.177	67.1	227.8	160.7	294.9
36 M8	.32204560	3.708	-.953	69.2	38.0	328.8	107.2

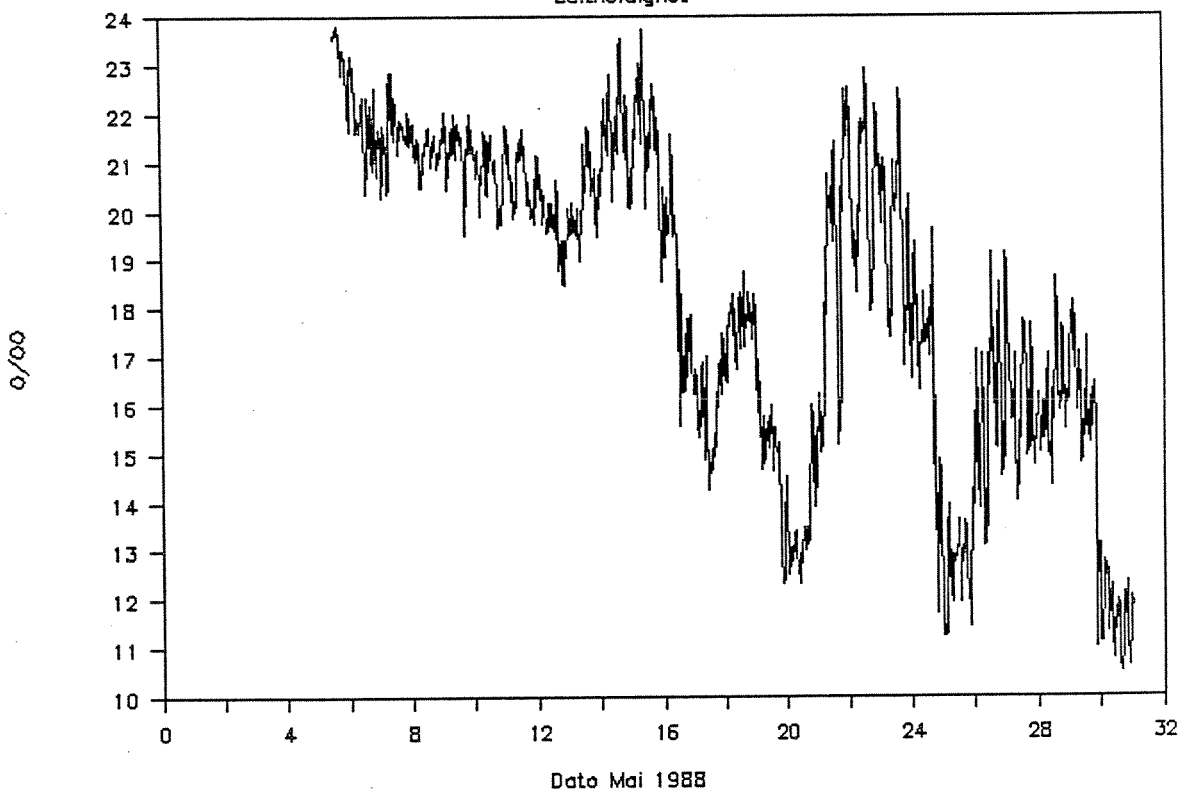
Drøbaksundet øst 5 m

Temperatur



Drøbaksundet øst 5 m

Saltholdighet

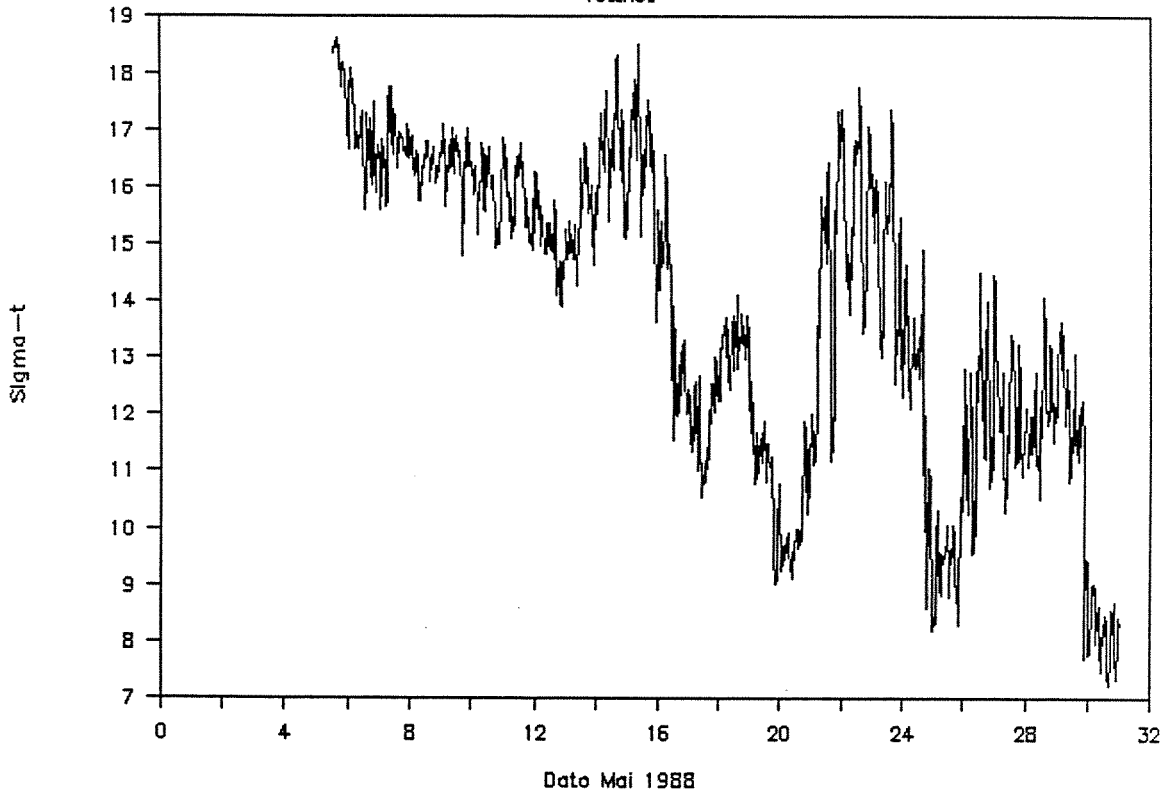


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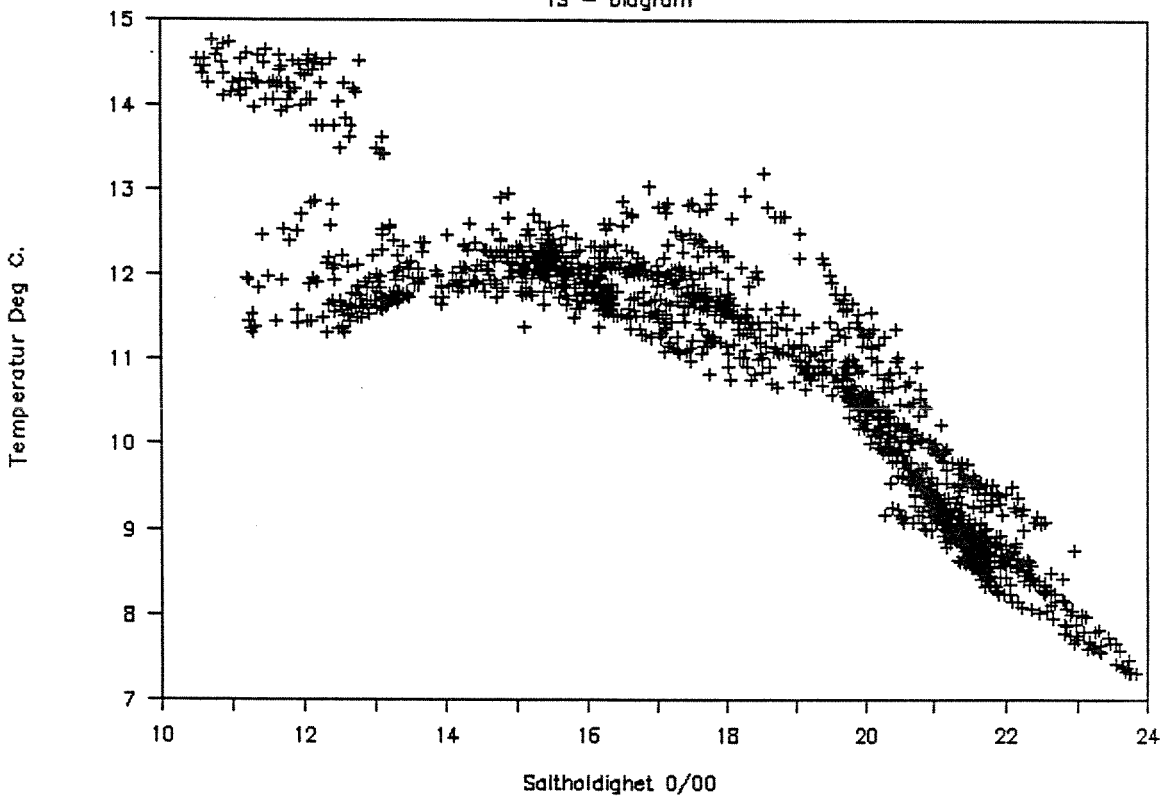
Drøbaksundet øst 5 m

Tetthet



Drøbaksundet øst 5 m Mai 1988

TS - Diagram

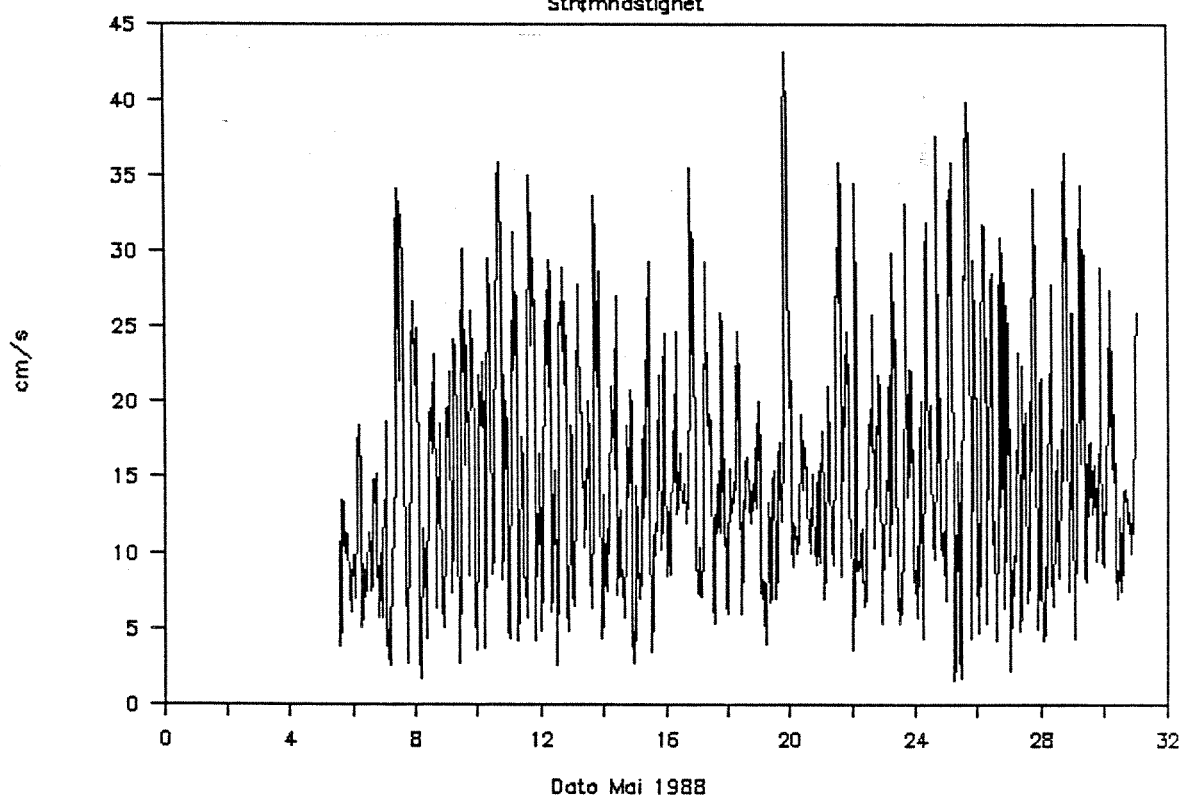


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and Services A/S

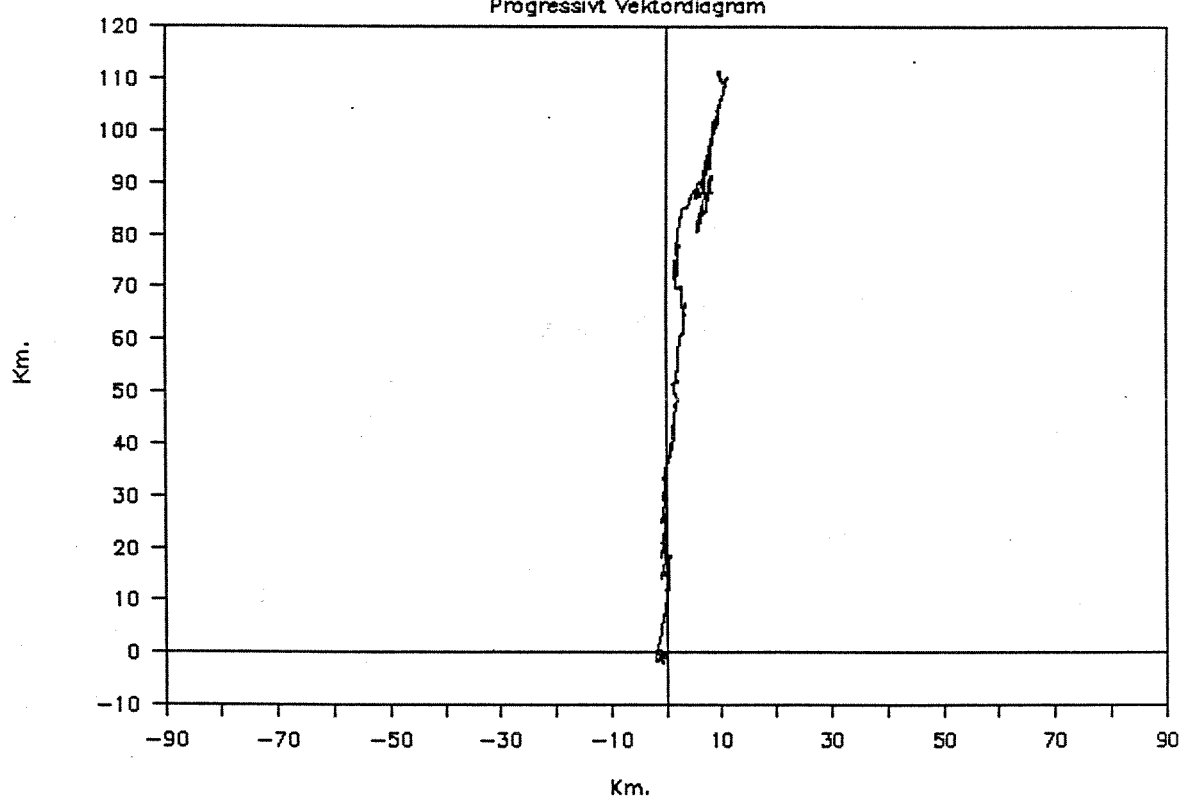
Drøbakundet øst 5 m

Strømhastighet



Drøbakundet øst 5 m Mai 1988

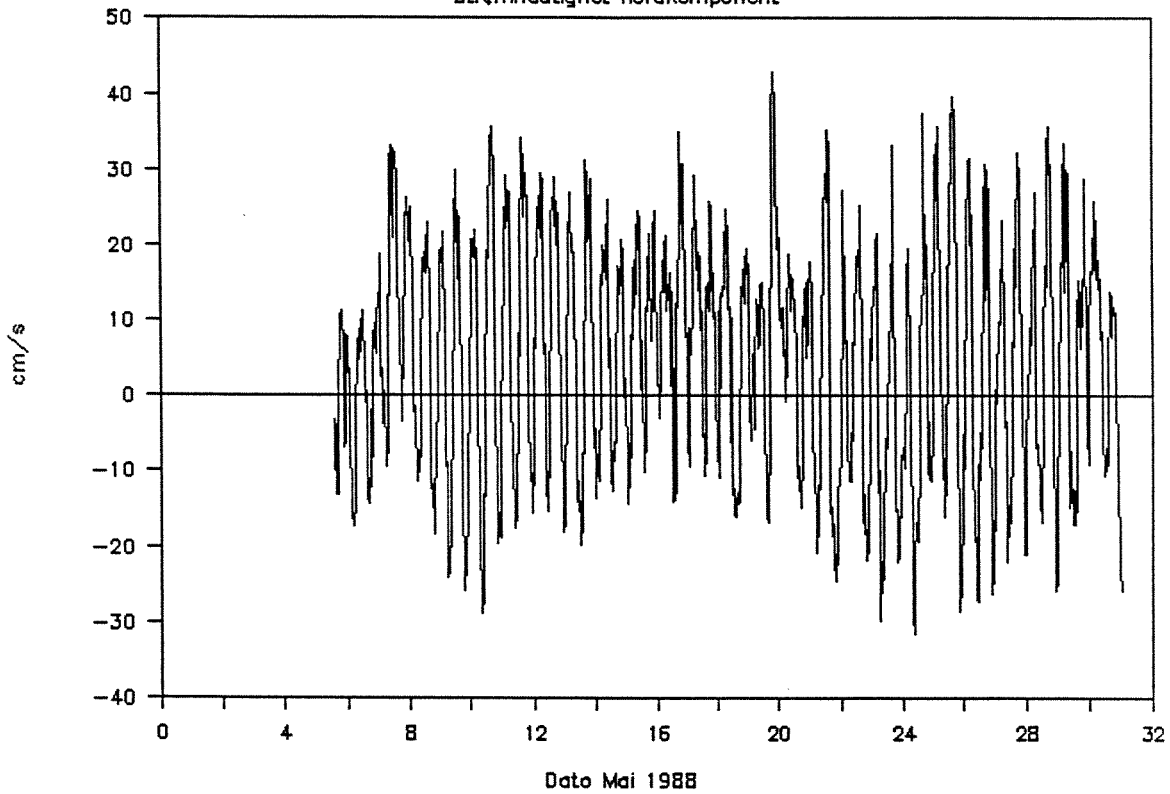
Progressivt Vektordiagram



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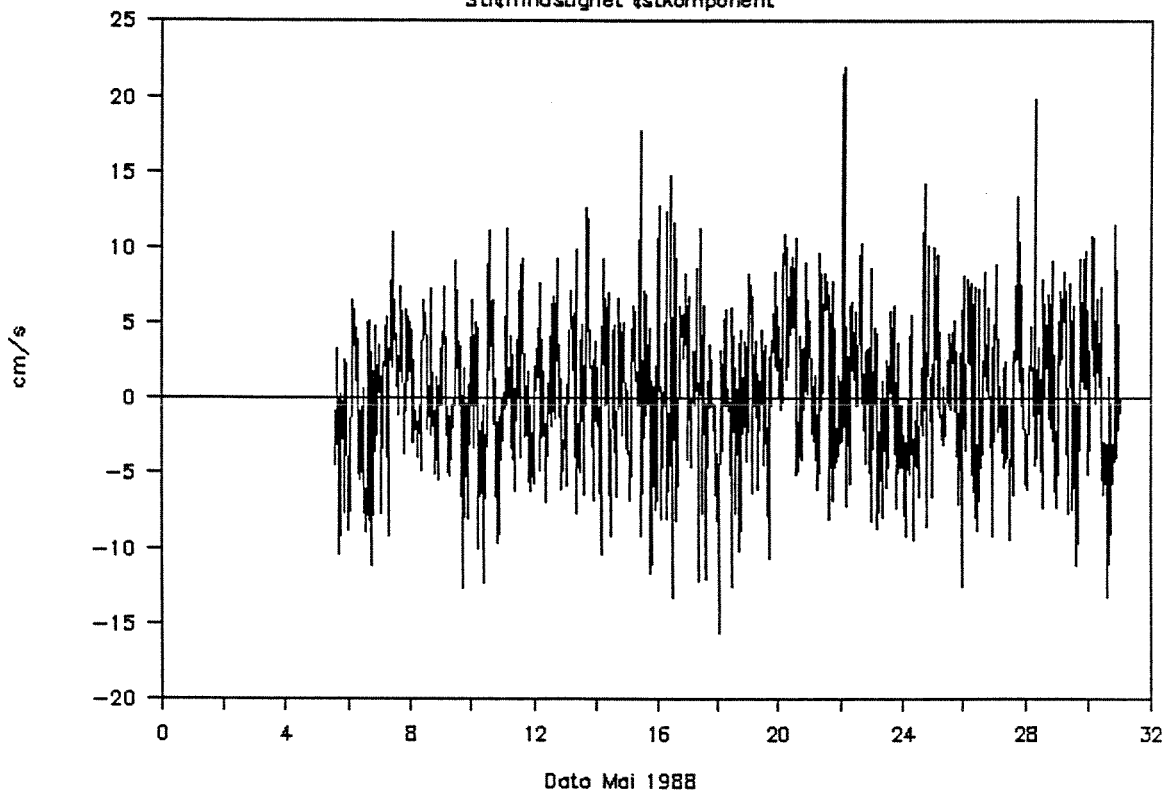
Drøbakundet Ost 5 m

Strømhastighet nordkomponent



Drøbakundet øst 5 m

Strømhastighet østkomponent

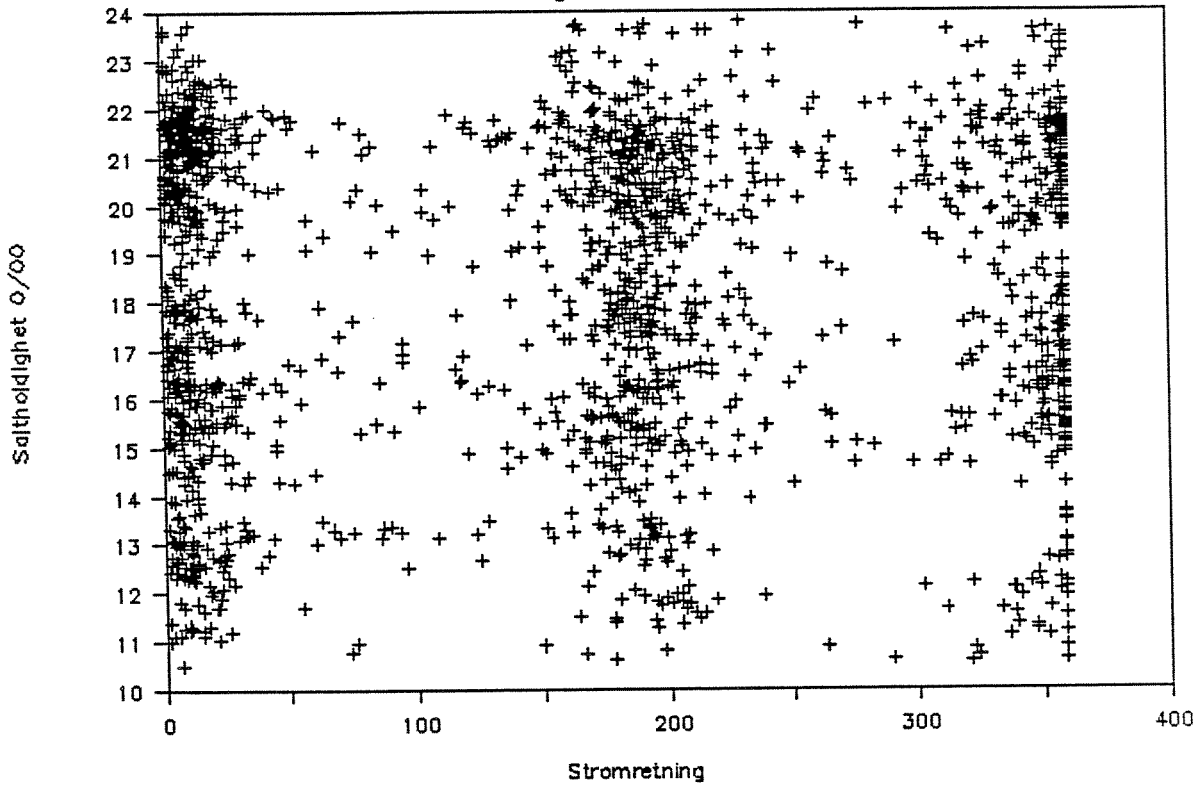


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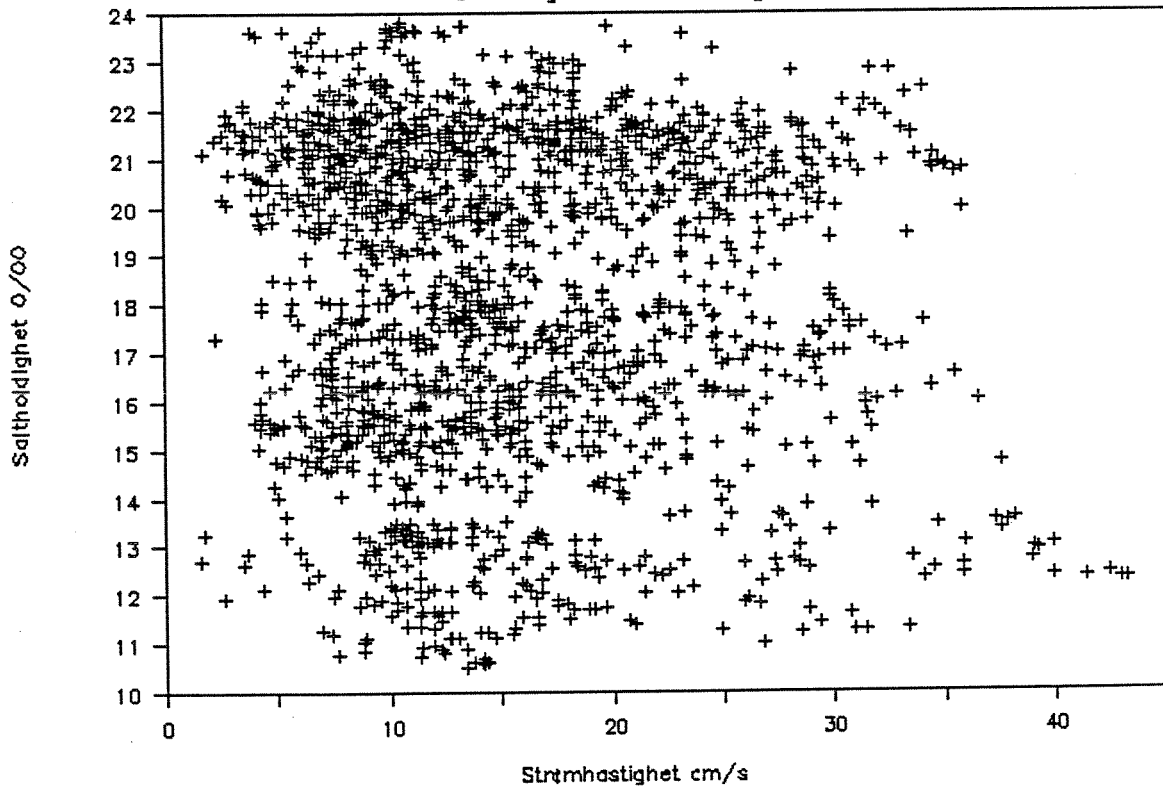
Drøbakundet øst 5 m Mai 1988

Saltholdighet vs. Strømretning



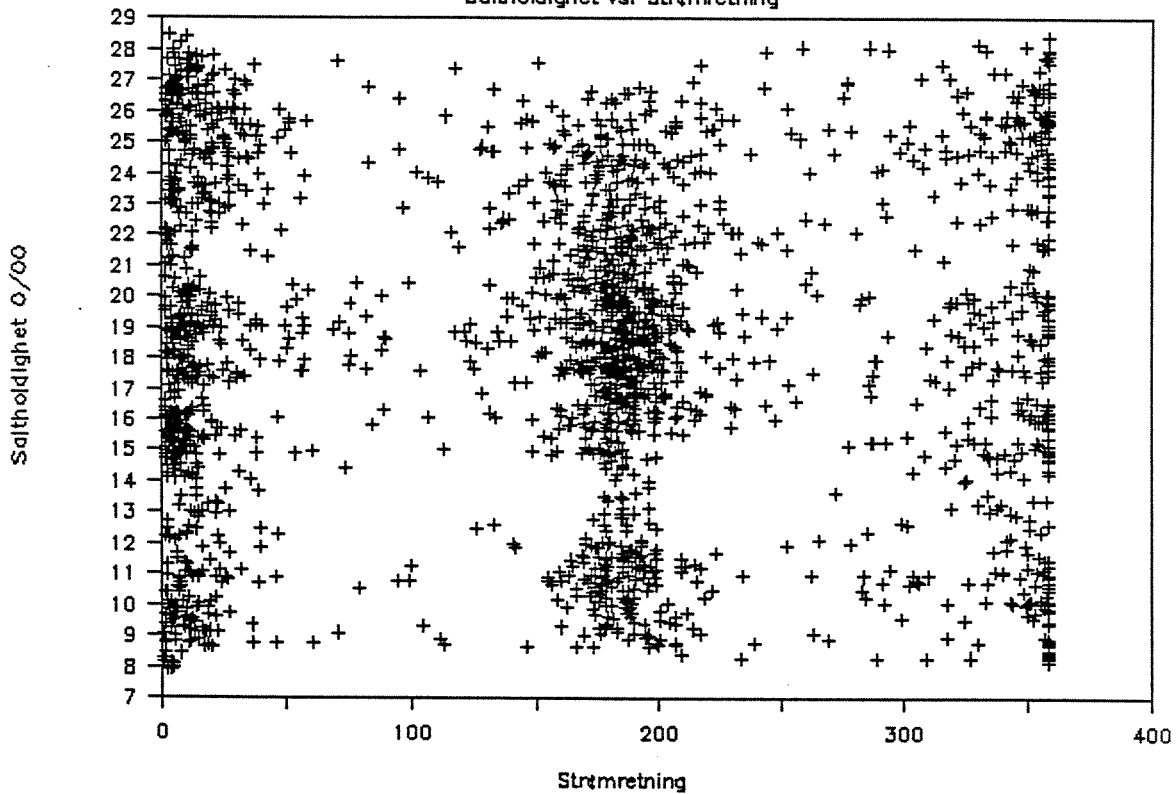
Drøbakundet øst 5 m Mai 1988

Saltholdighet vs. Strømhastighet



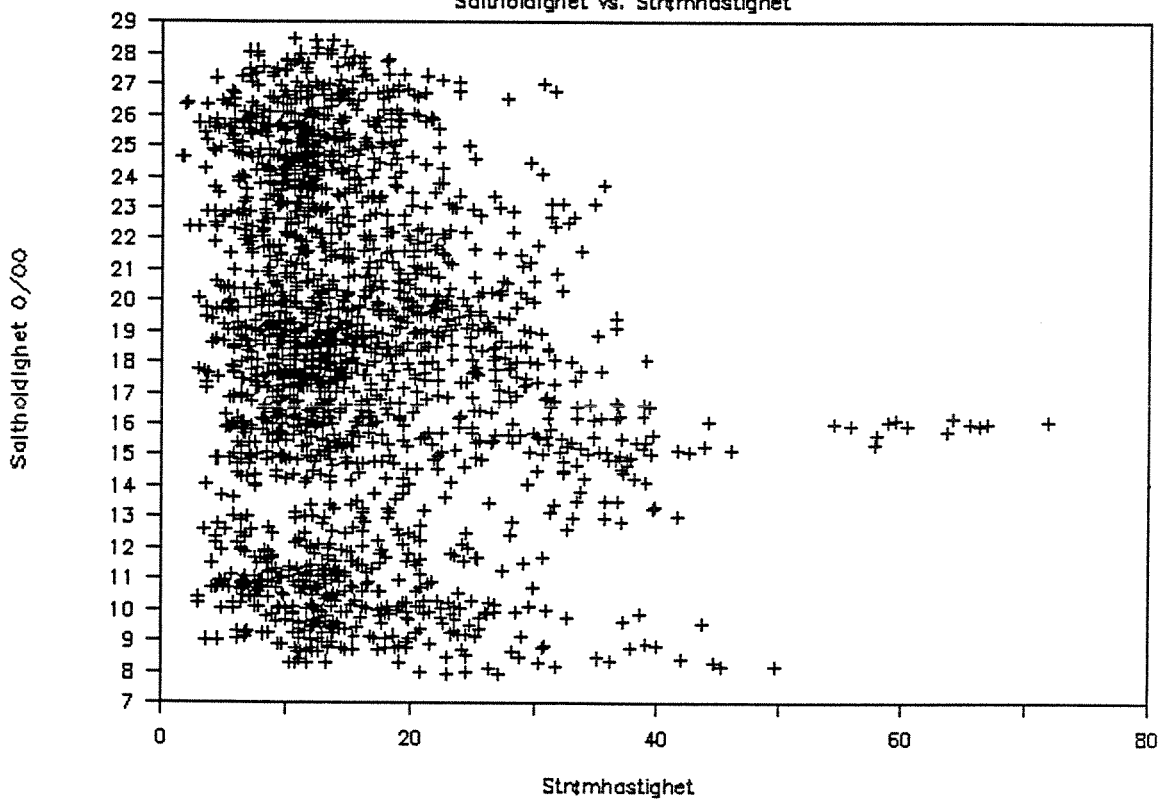
Drøbakundet øst 5 m Juni 1988

Saltholdighet vs. Strømretning



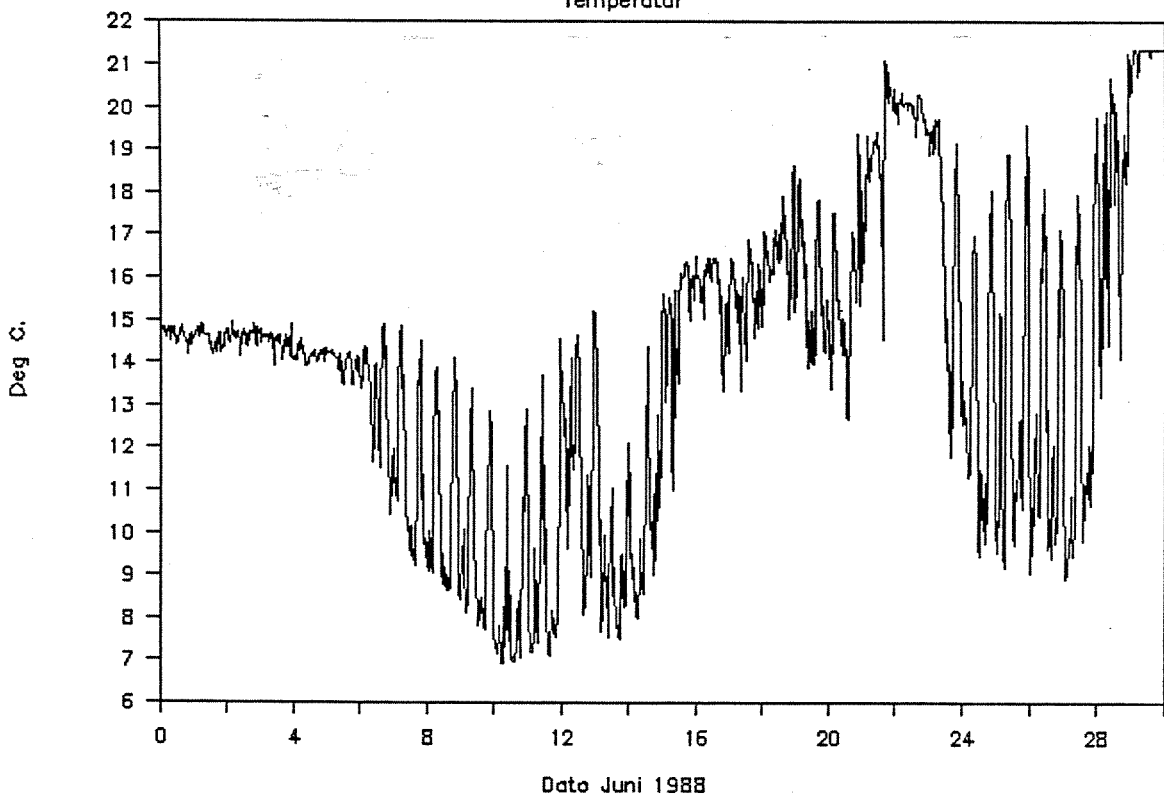
Drøbakundet øst 5 m Juni 1988

Saltholdighet vs. Strømhastighet

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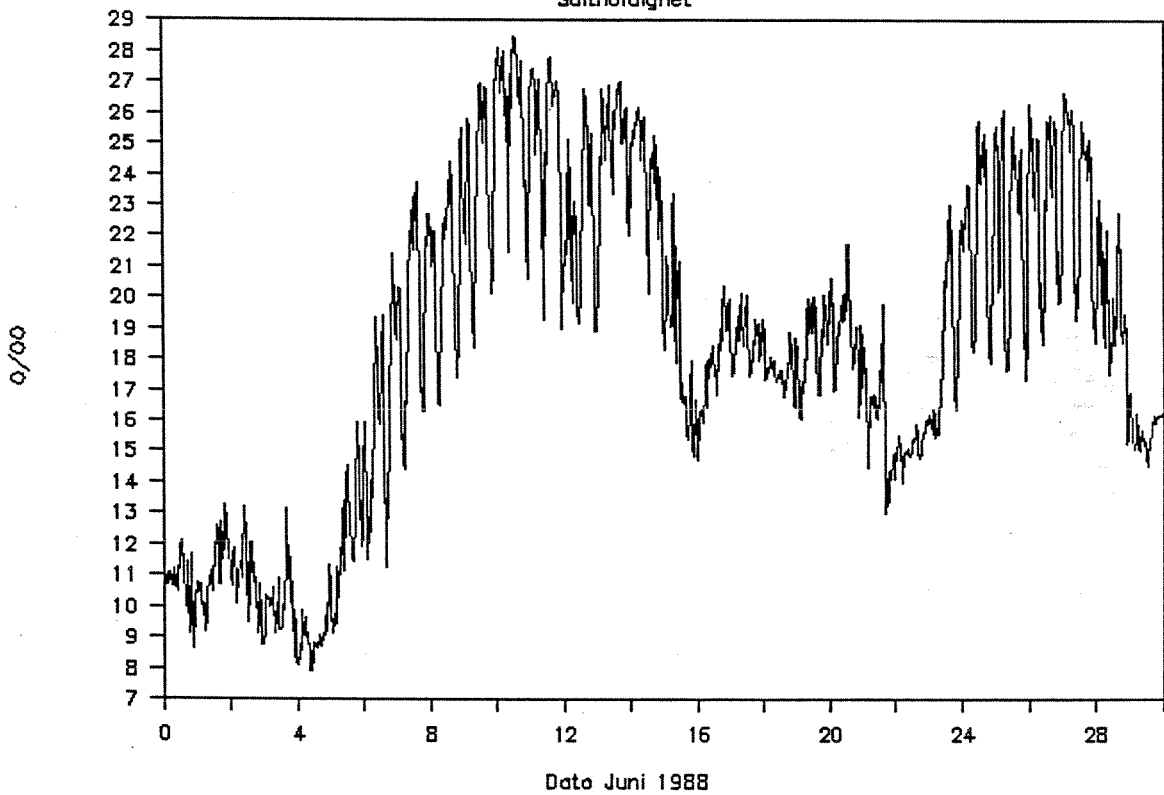
Drøbaksundet øst 5 m

Temperatur



Drøbaksundet øst 5 m

Saltholdighet

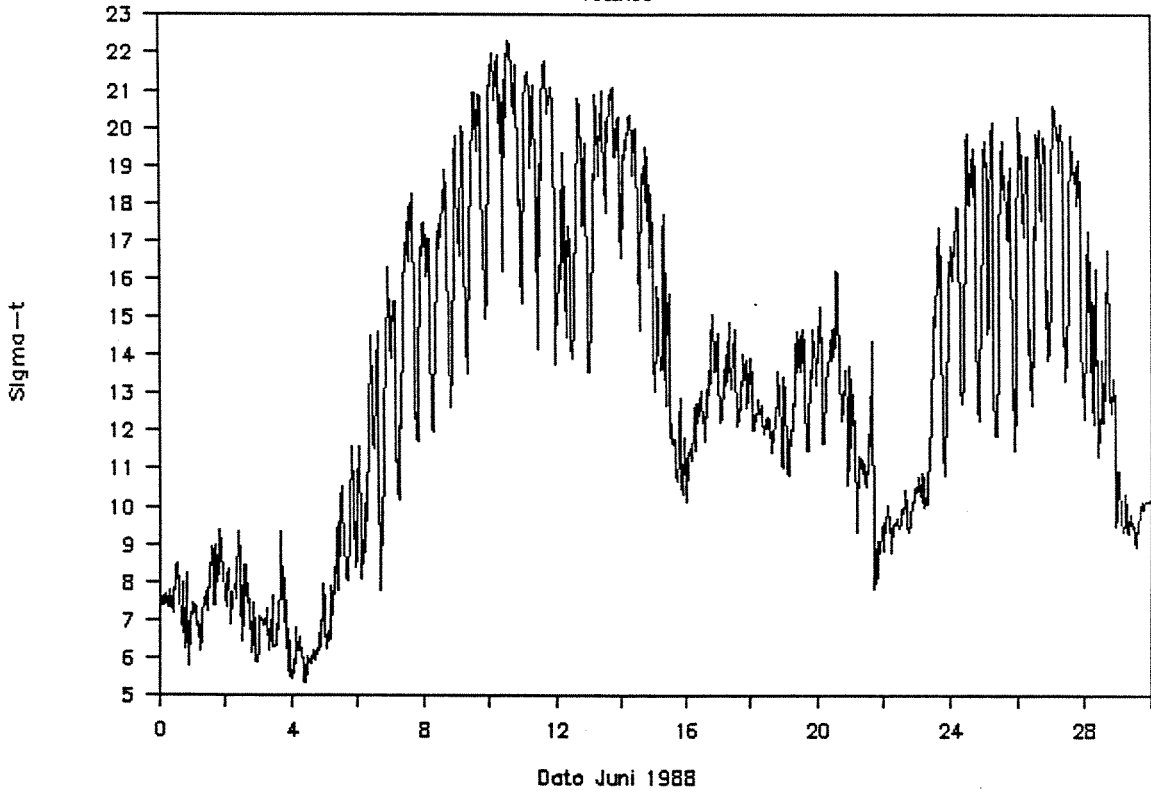


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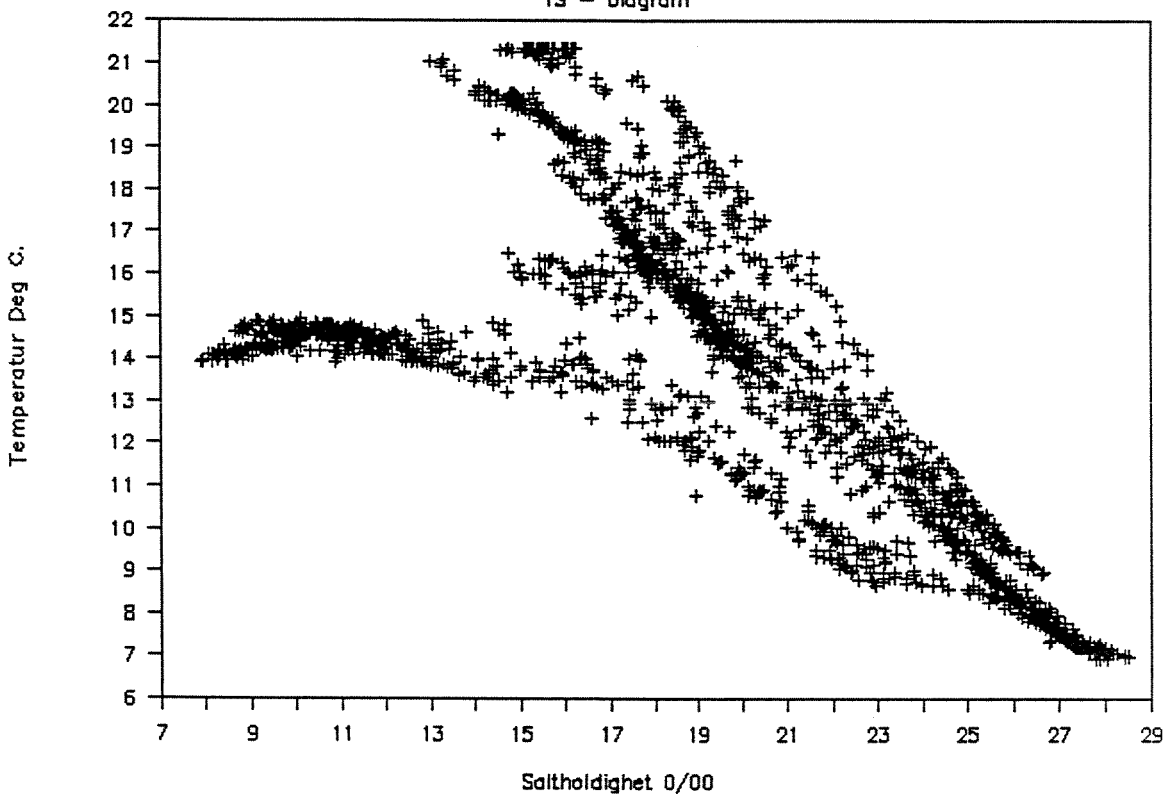
Drøbaksundet øst 5 m

Tetthet



Drøbaksundet øst 5 m Juni 1988

TS - Diagram

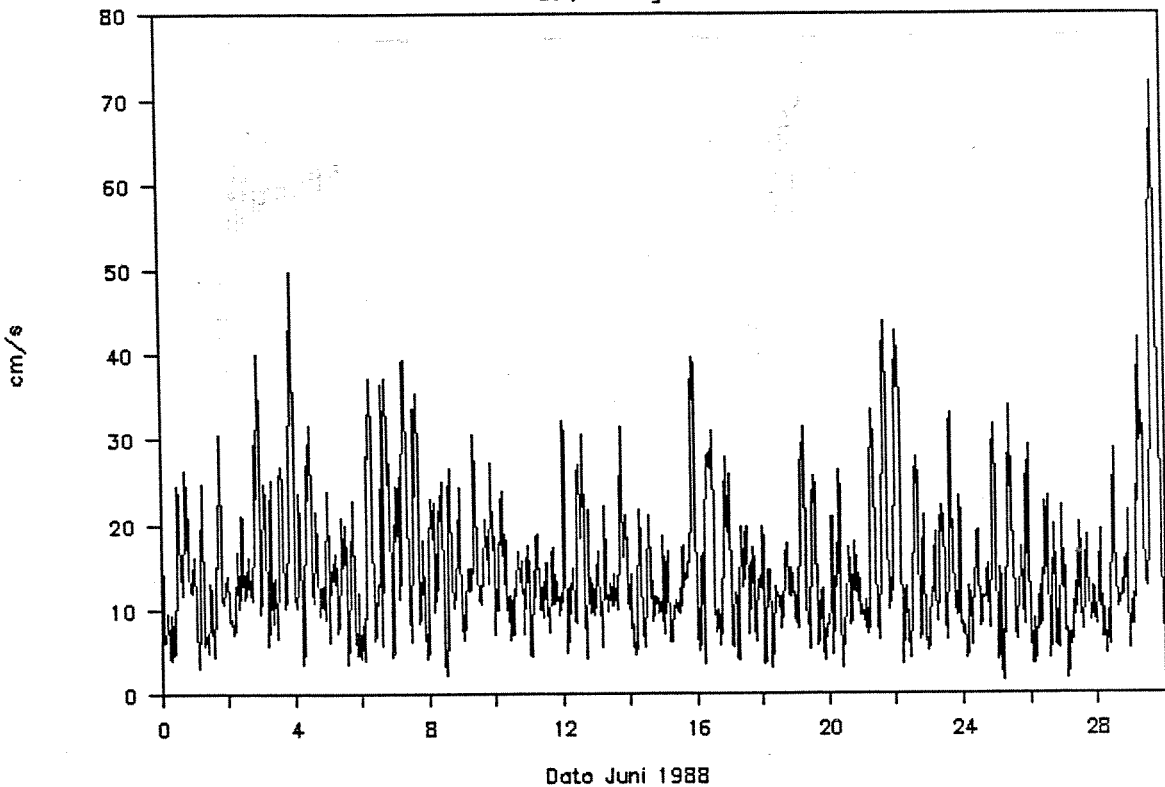


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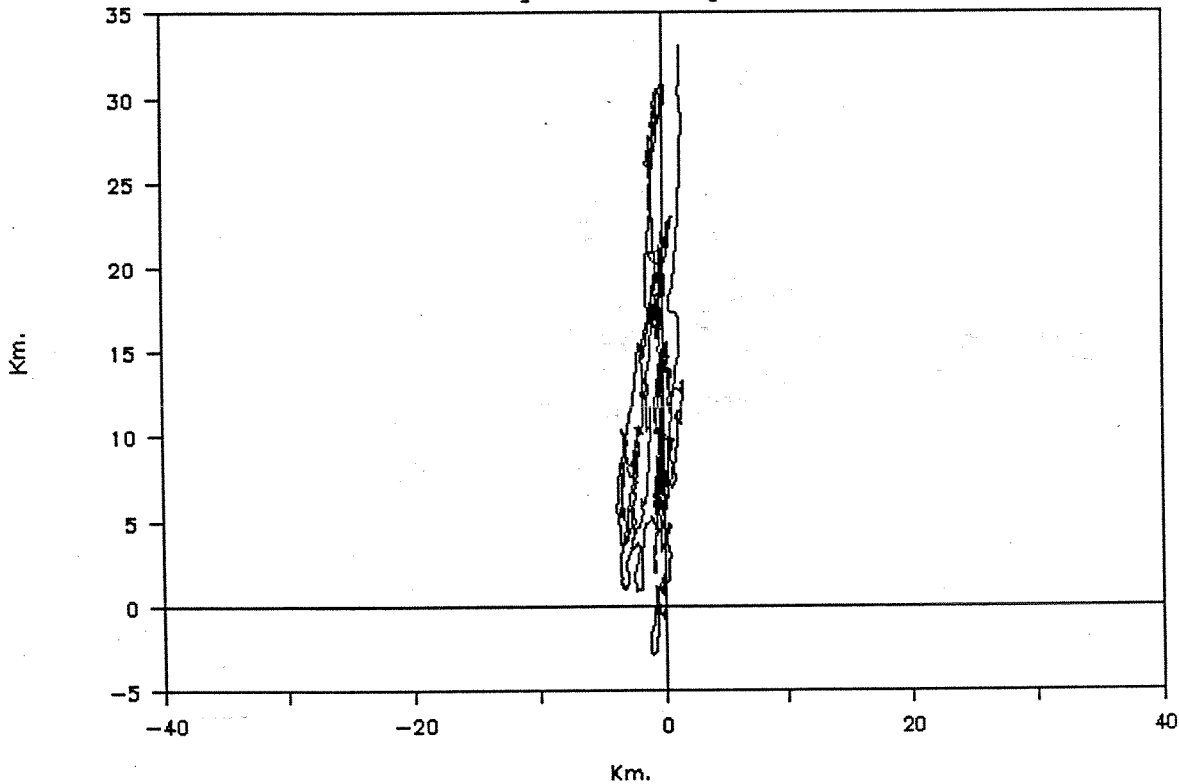
Drøbaksundet øst 5 m

Strømhastighet



Drøbaksundet øst 5 m Juni 1988

Progressivt Vektordiagram

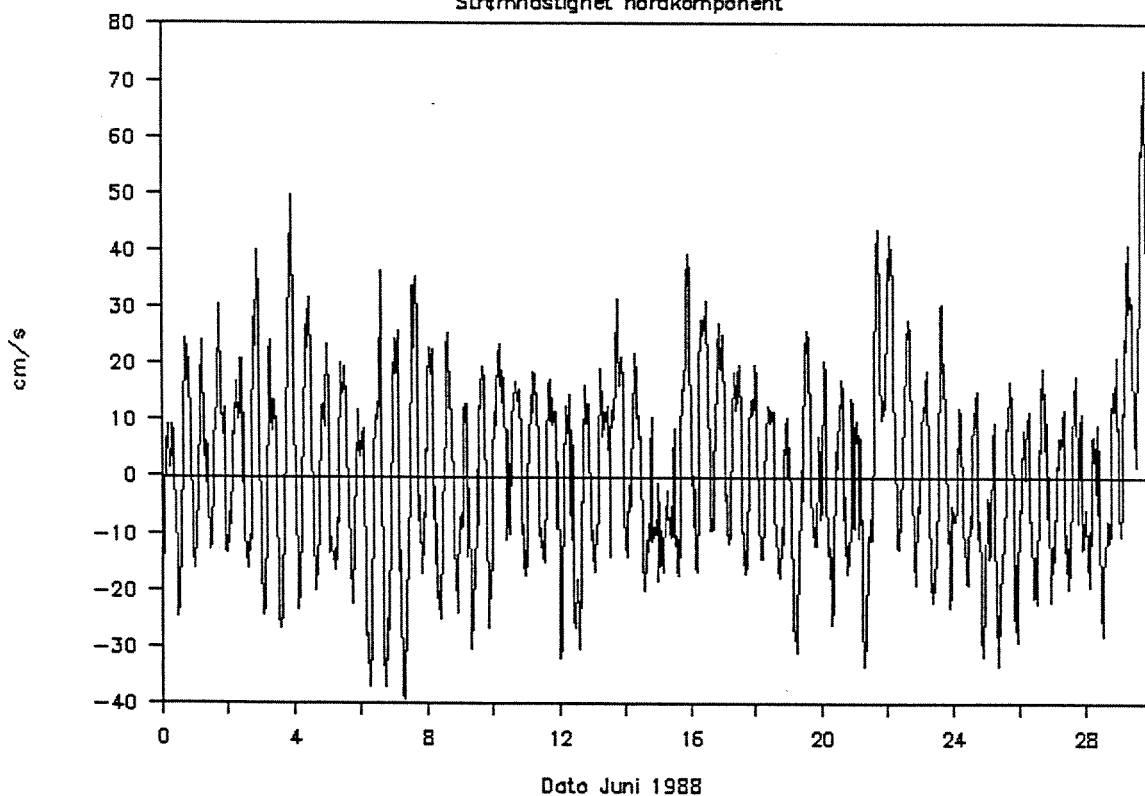


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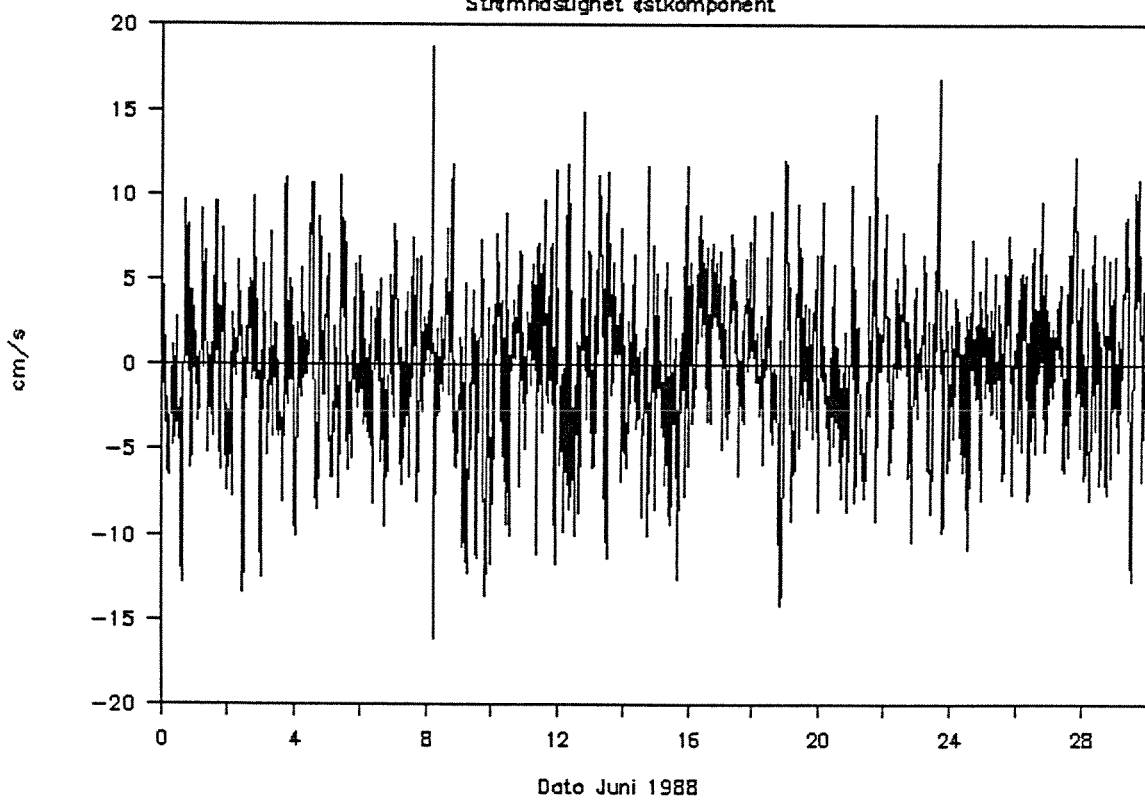
Drøbakundet øst 5 m

Strømhastighet nordkomponent



Drøbakundet øst 5 m

Strømhastighet østkomponent

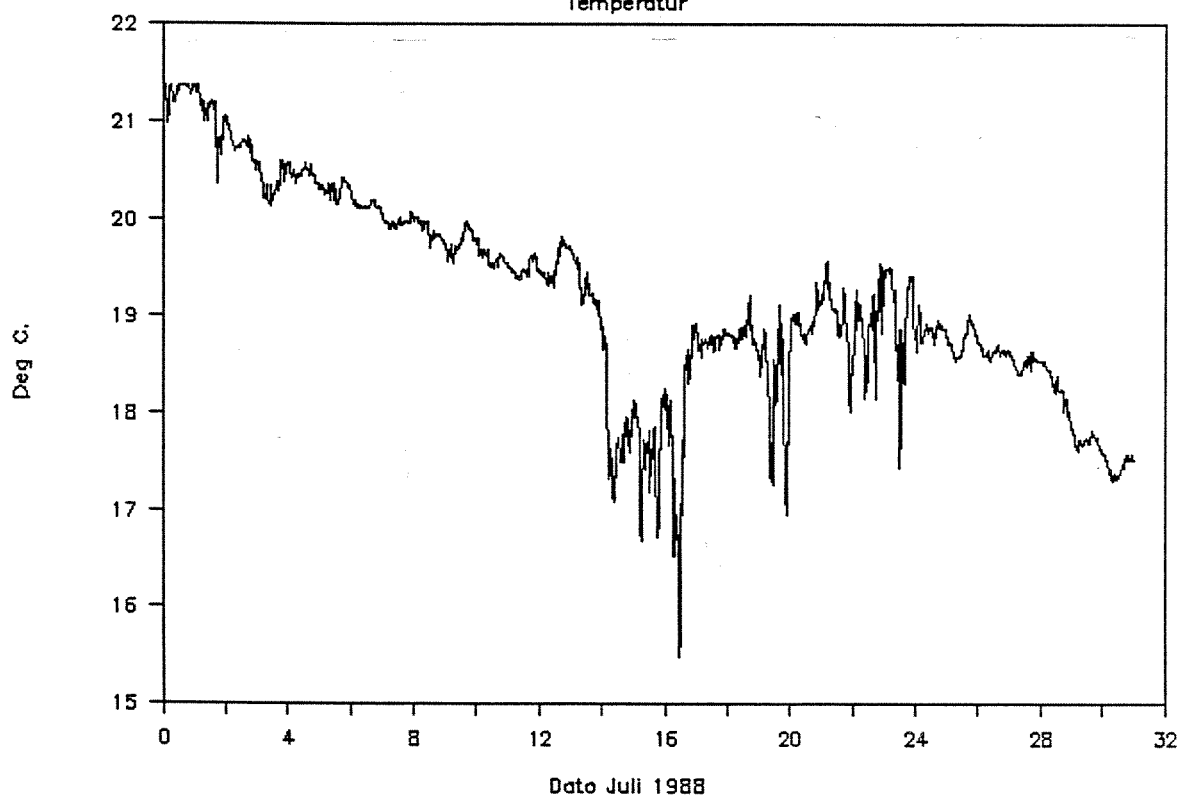


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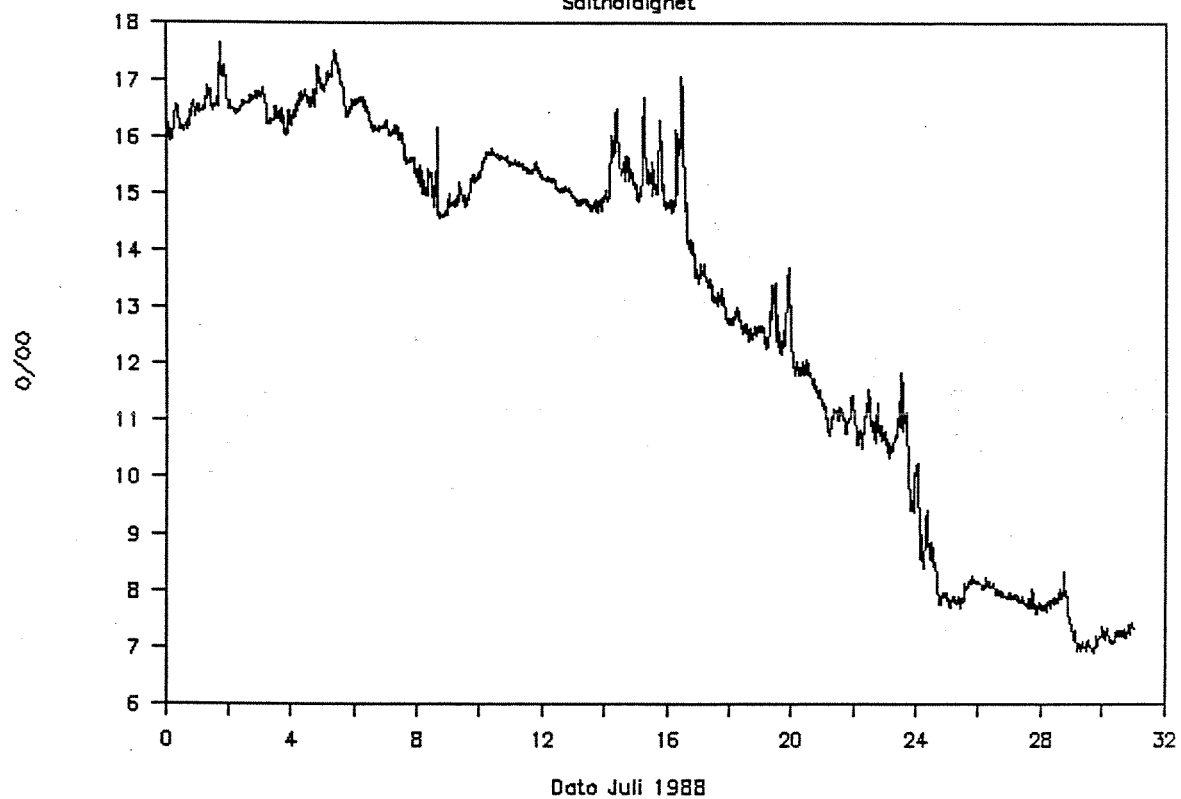
Drøbakundet øst 5 m

Temperatur



Drøbakundet øst 5 m

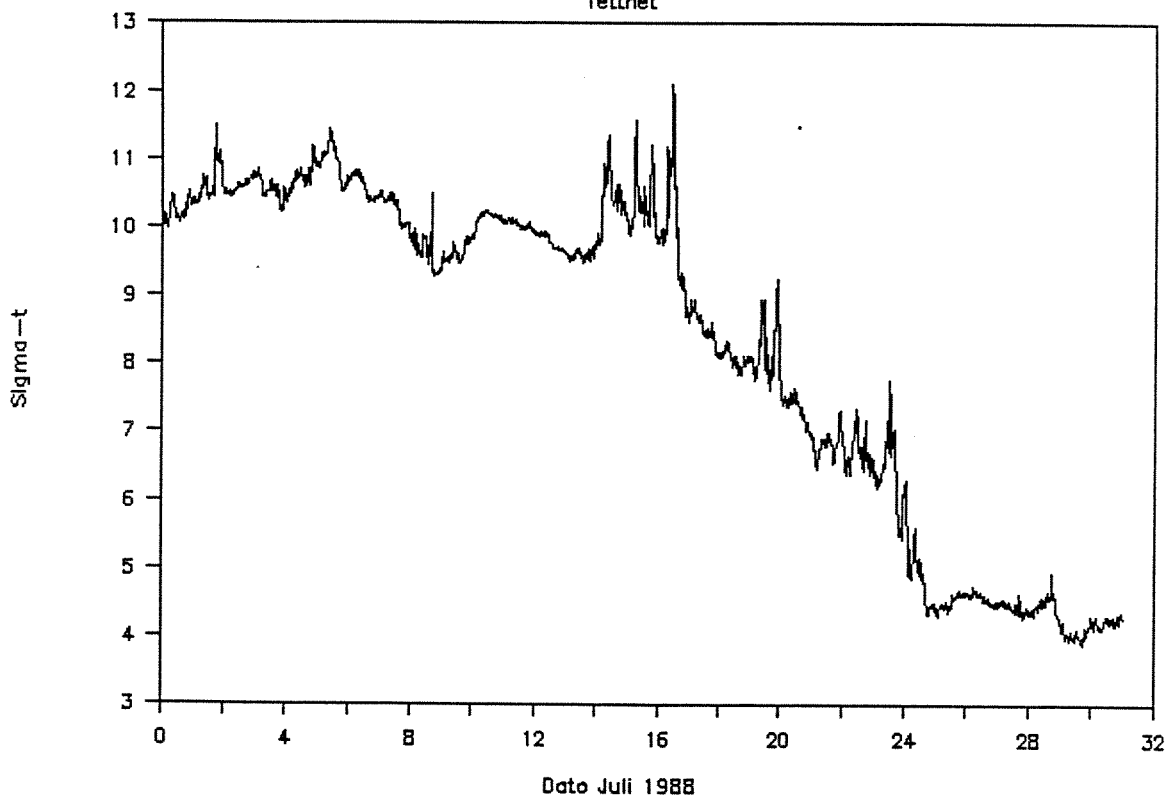
Saltholdighet



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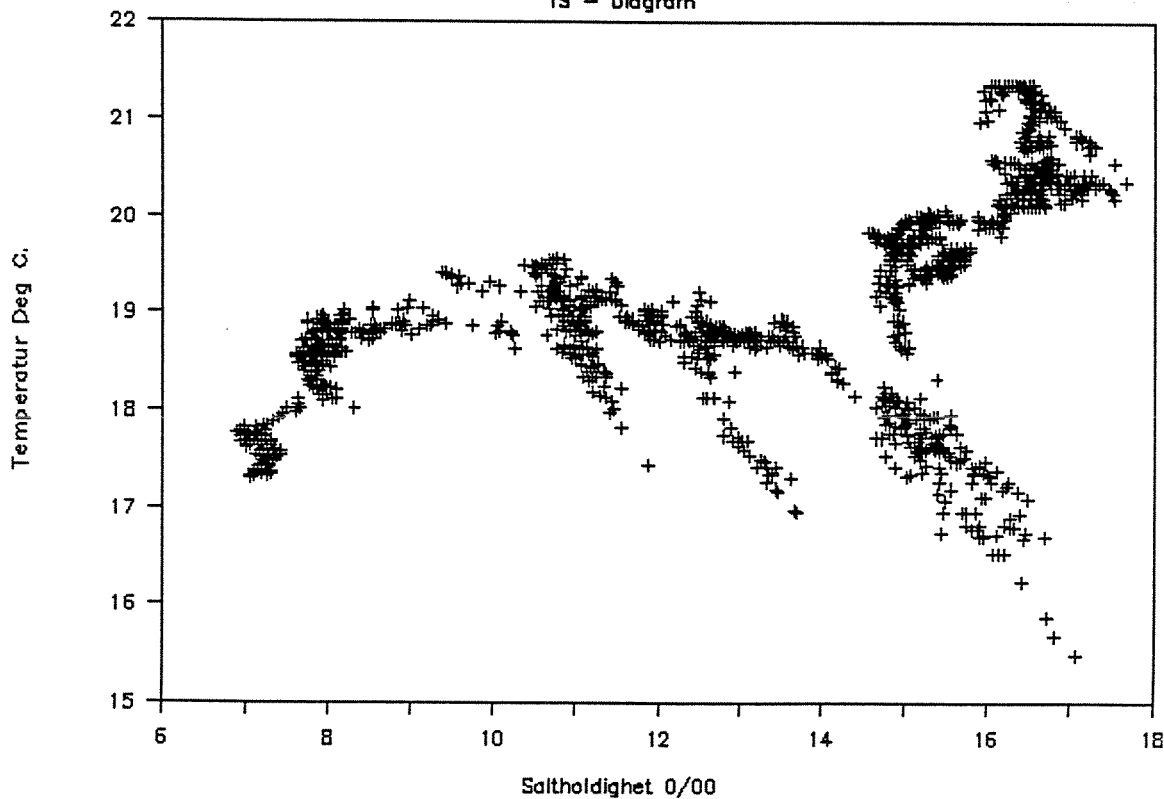
Drøbakundet øst 5 m

Tetthet



Drøbakundet øst 5 m Juli 1988

TS - Diagram

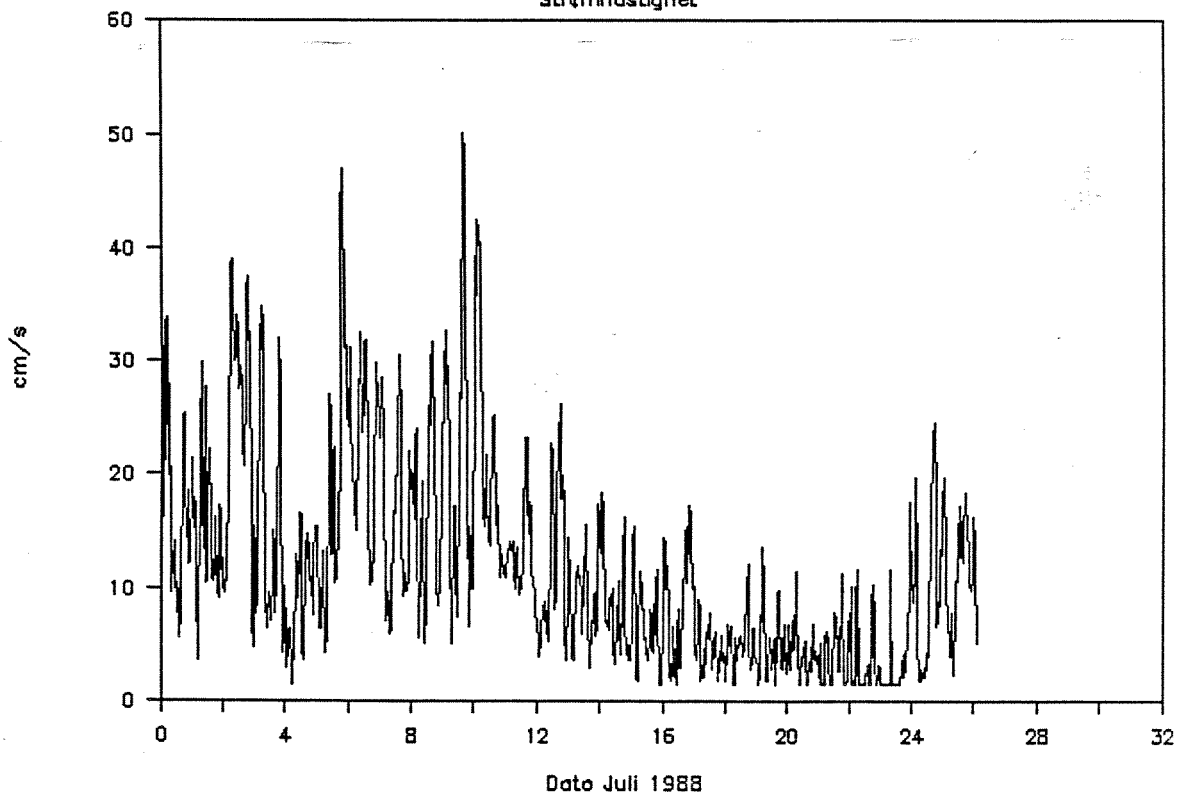


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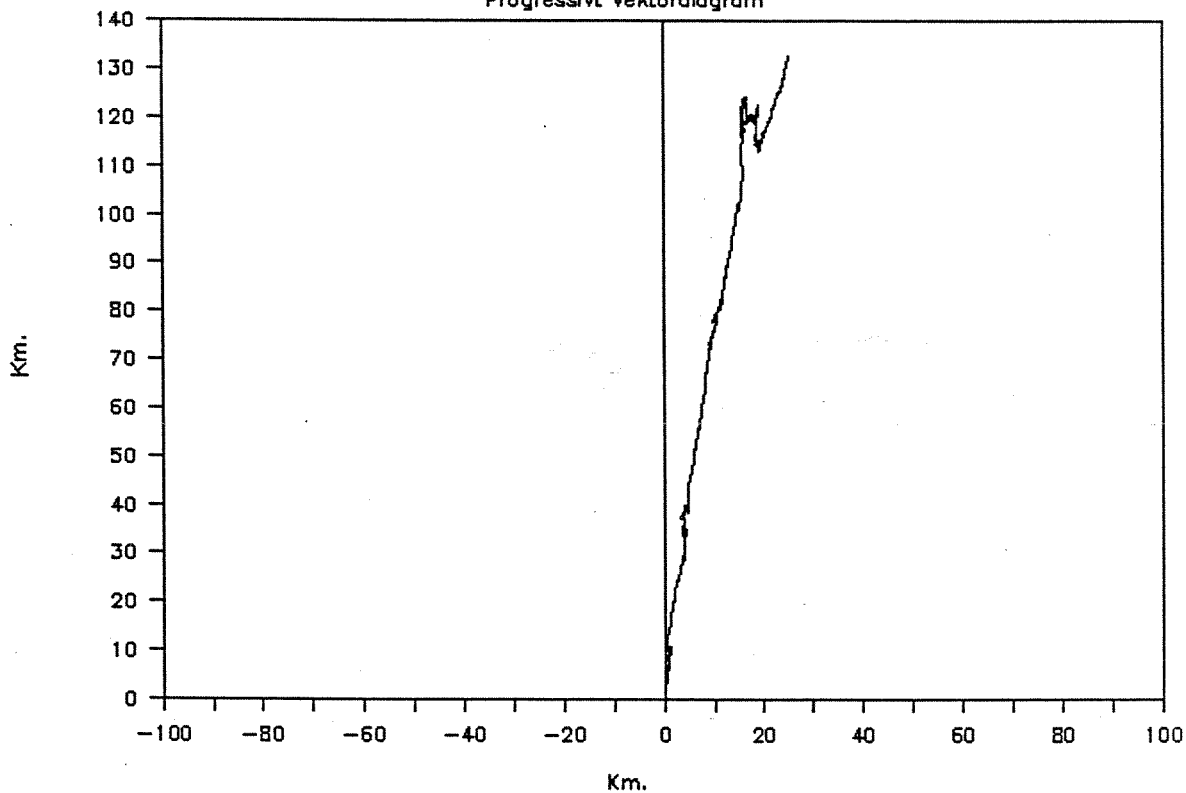
Drøbakundet øst 5 m

Strømhastighet



Drøbakundet øst 5 m Juli 1988

Progressivt Vektordiagram

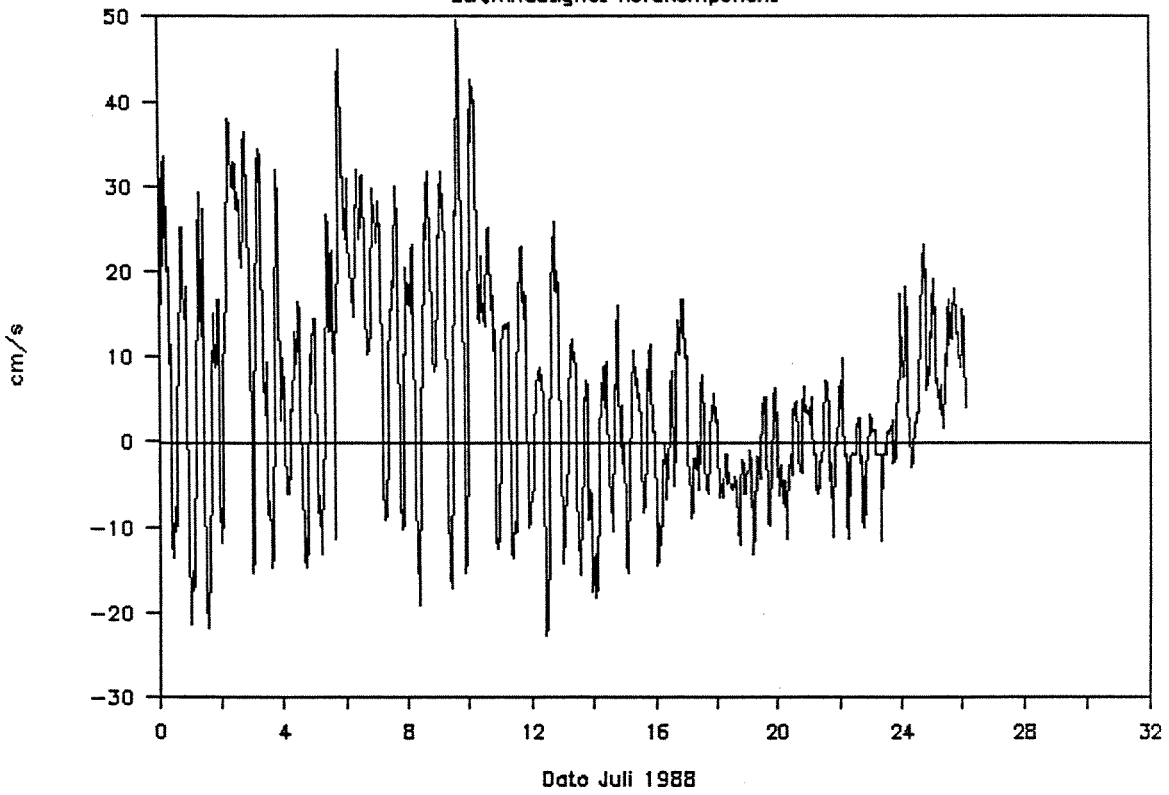


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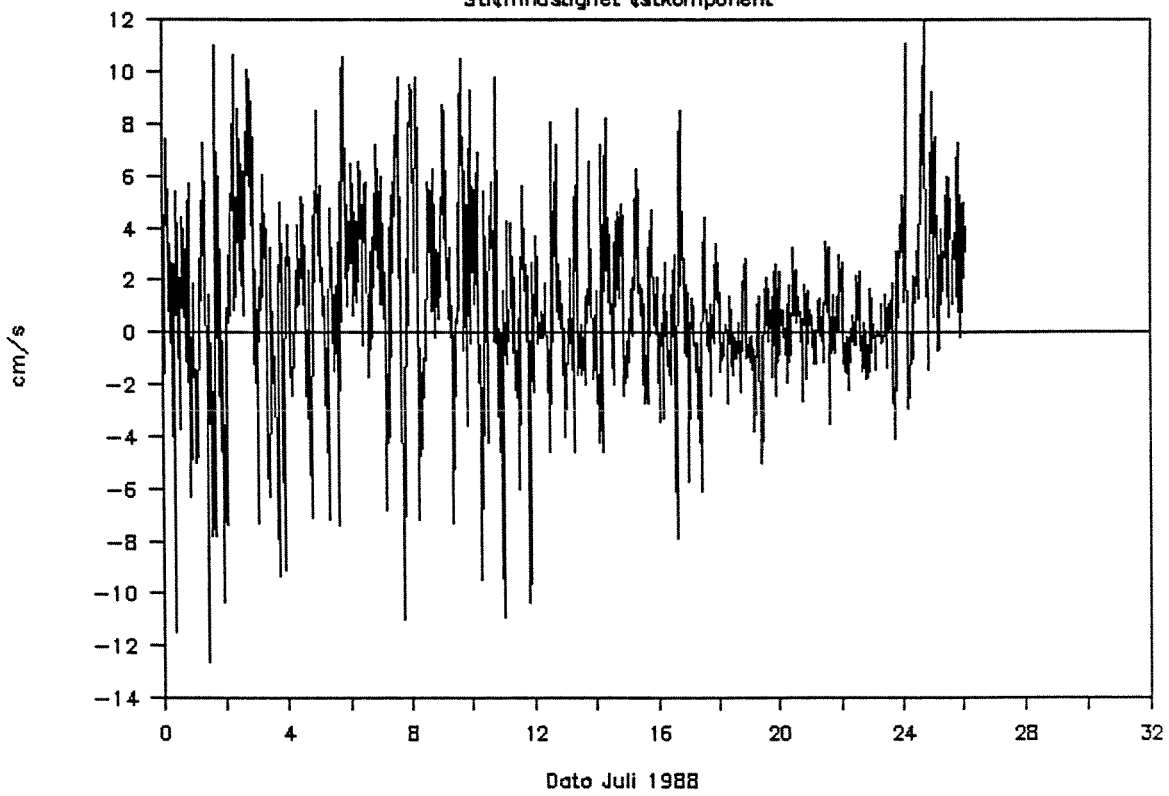
Drøbakundet øst 5 m

Strømhastighet nordkomponent



Drøbakundet øst 5 m

Strømhastighet østkomponent

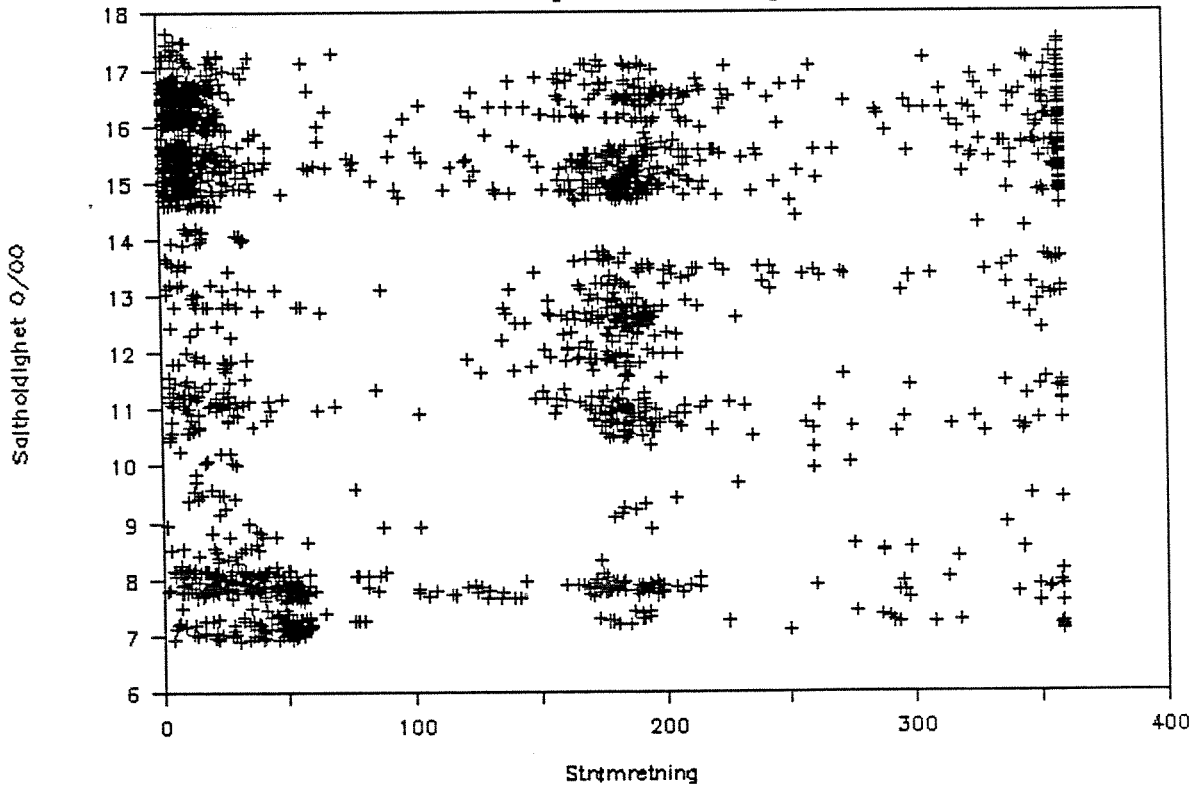


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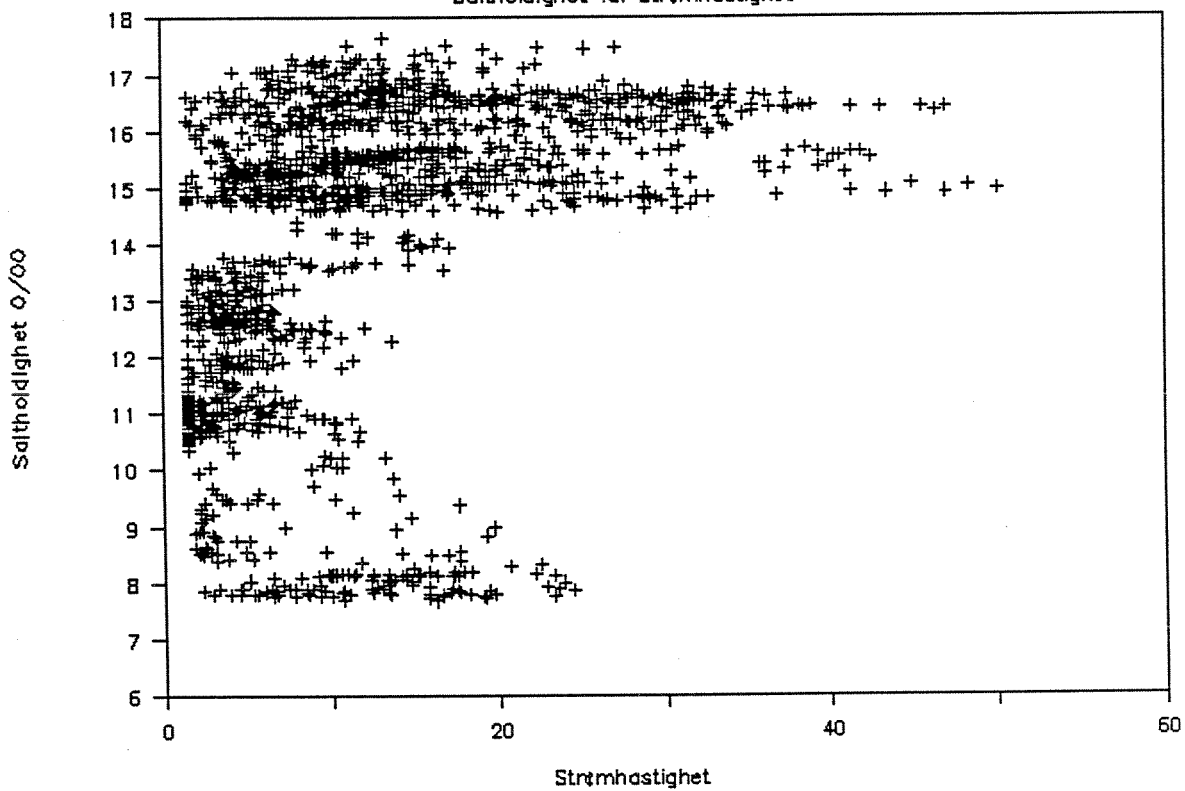
Drøbaksundet øst 5 m Juli 1988

Saltholdighet vs. Strømretning



Drøbaksundet øst 5 m Juli 1988

Saltholdighet vs. Strømhastighet

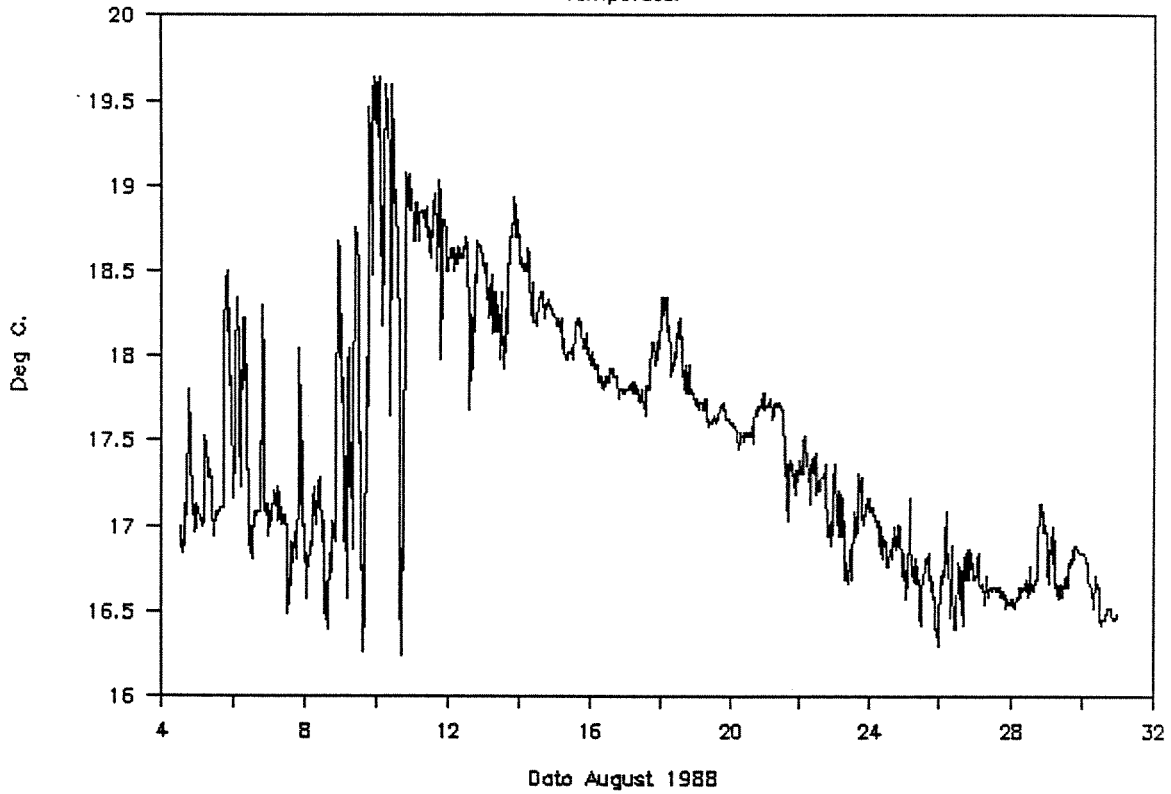


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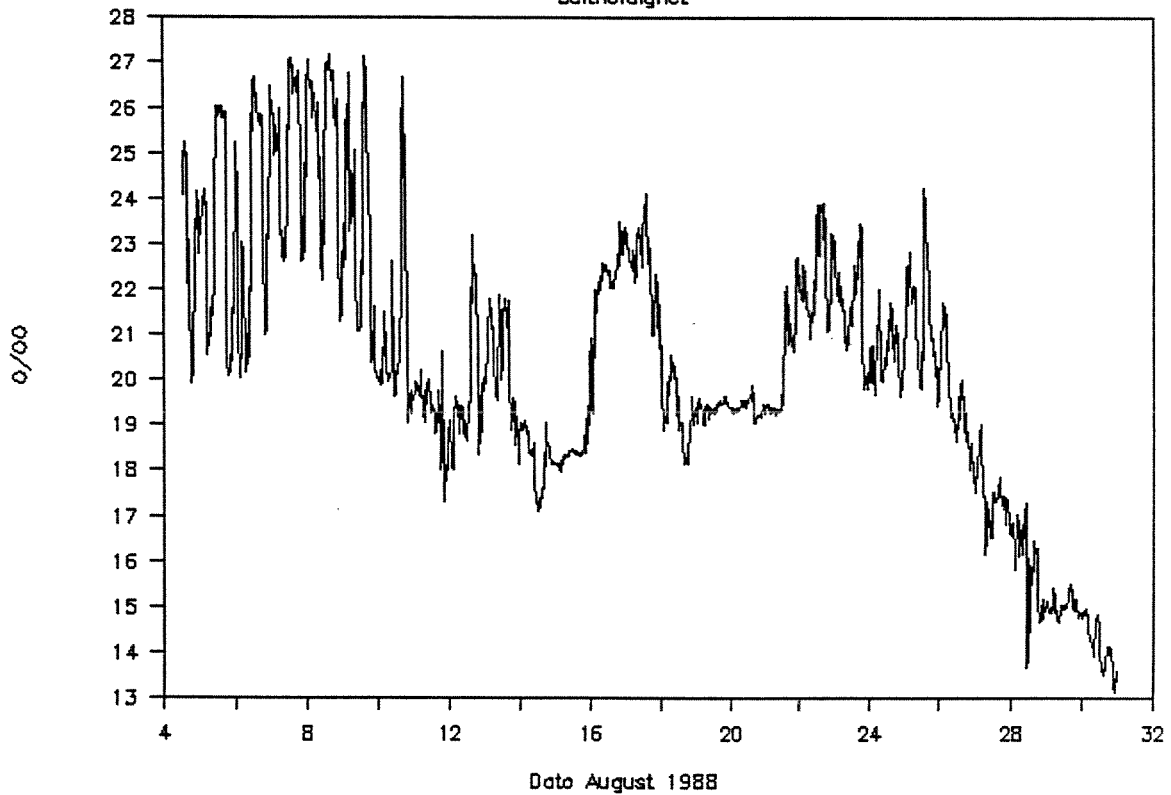
Drøbakundet øst 5 m.

Temperatur



Drøbakundet øst 5 m.

Saltholdighet

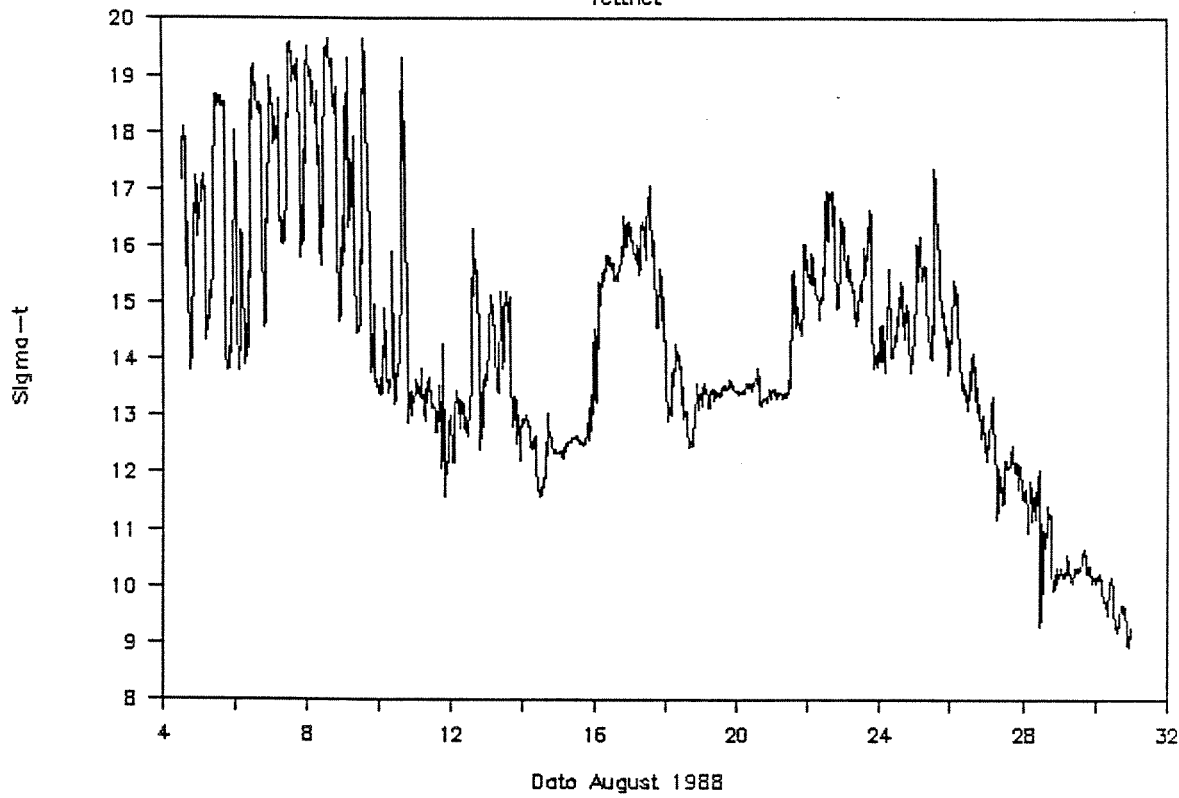


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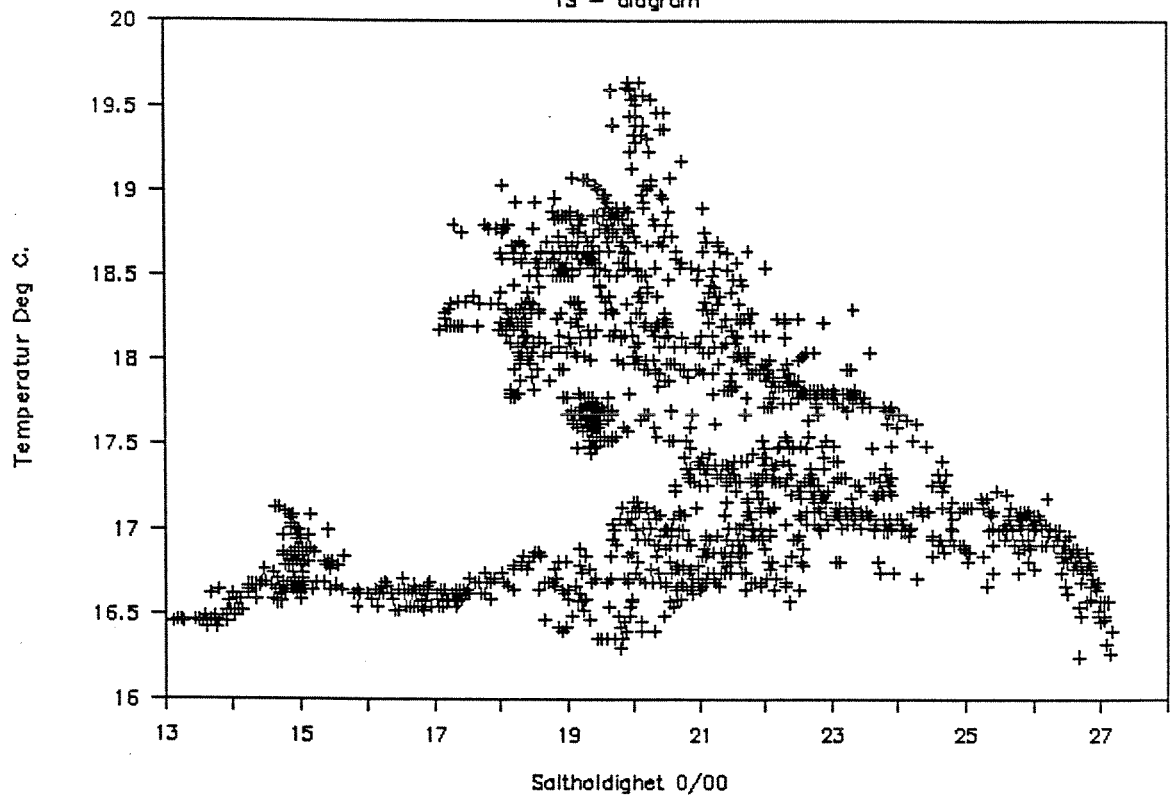
Drøbaksundet øst 5 m.

Tetthet



Drøbaksundet øst 5 m. August 1988

TS - diagram

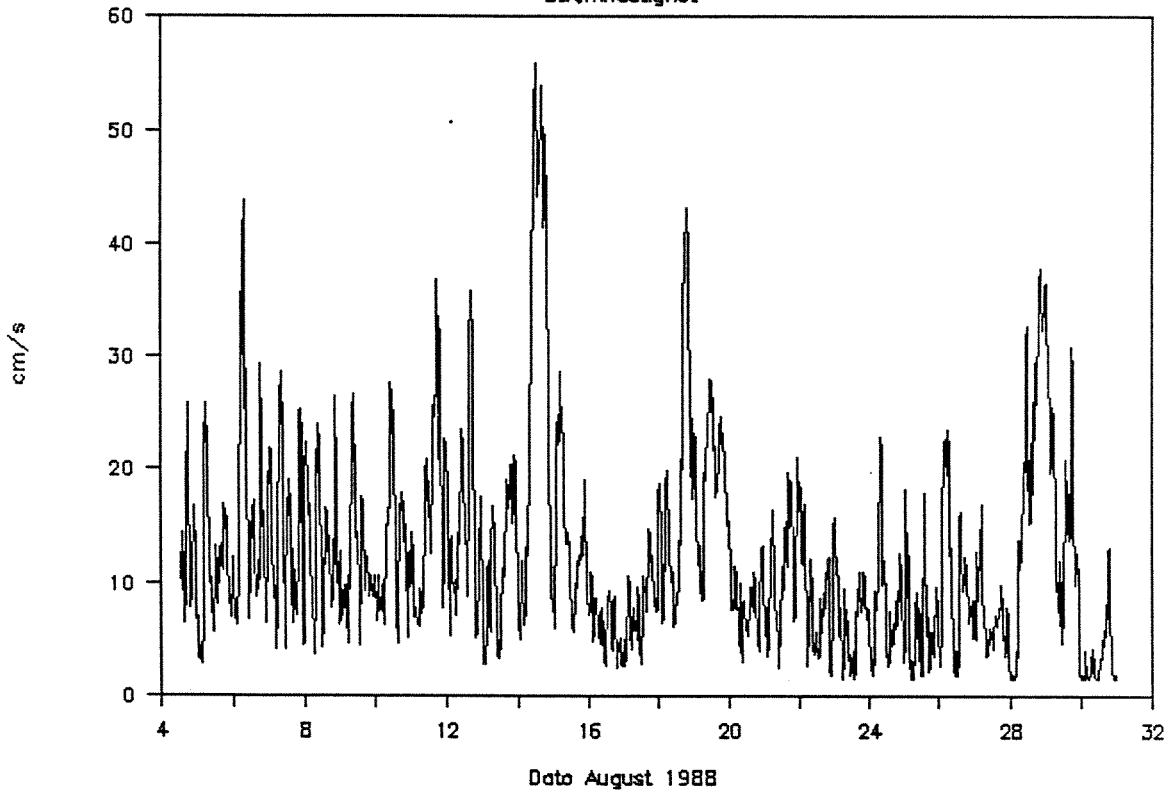


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and Services A/S

Drøbakundet øst 5 m.

Strømhastighet

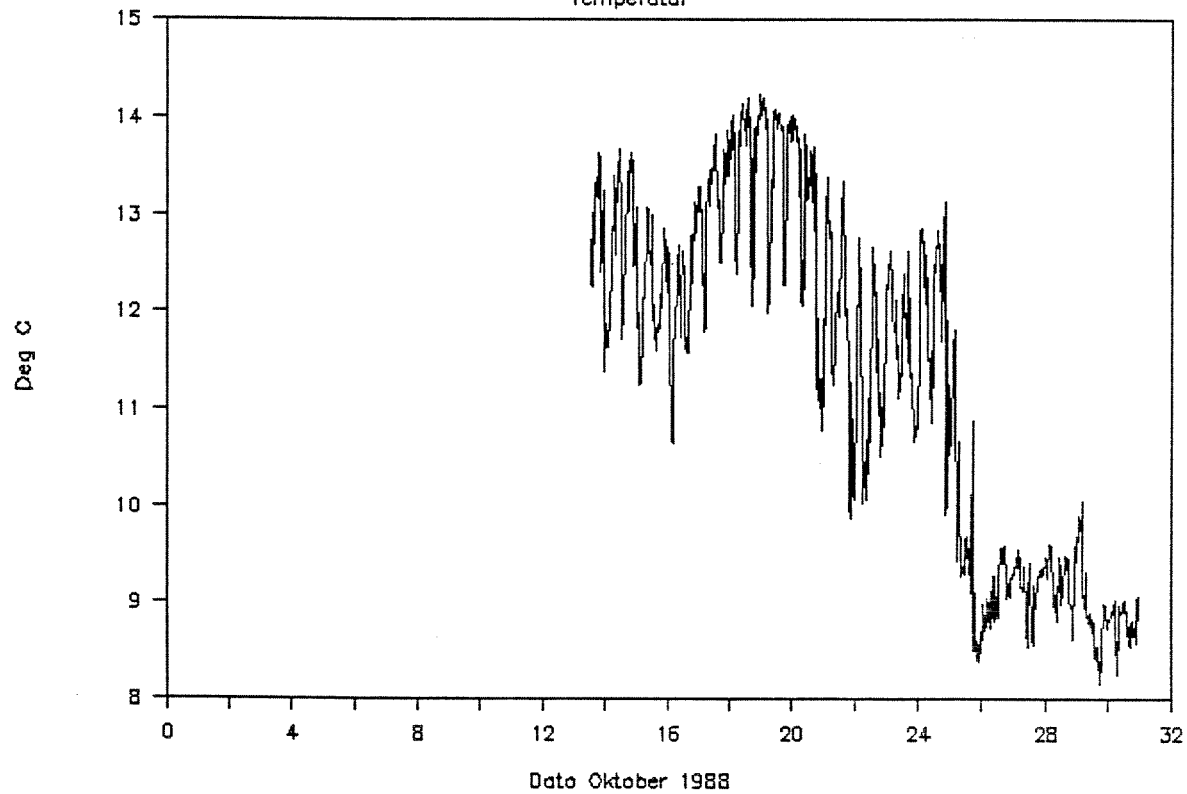


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Veritas Offshore Technology
and Services A/S

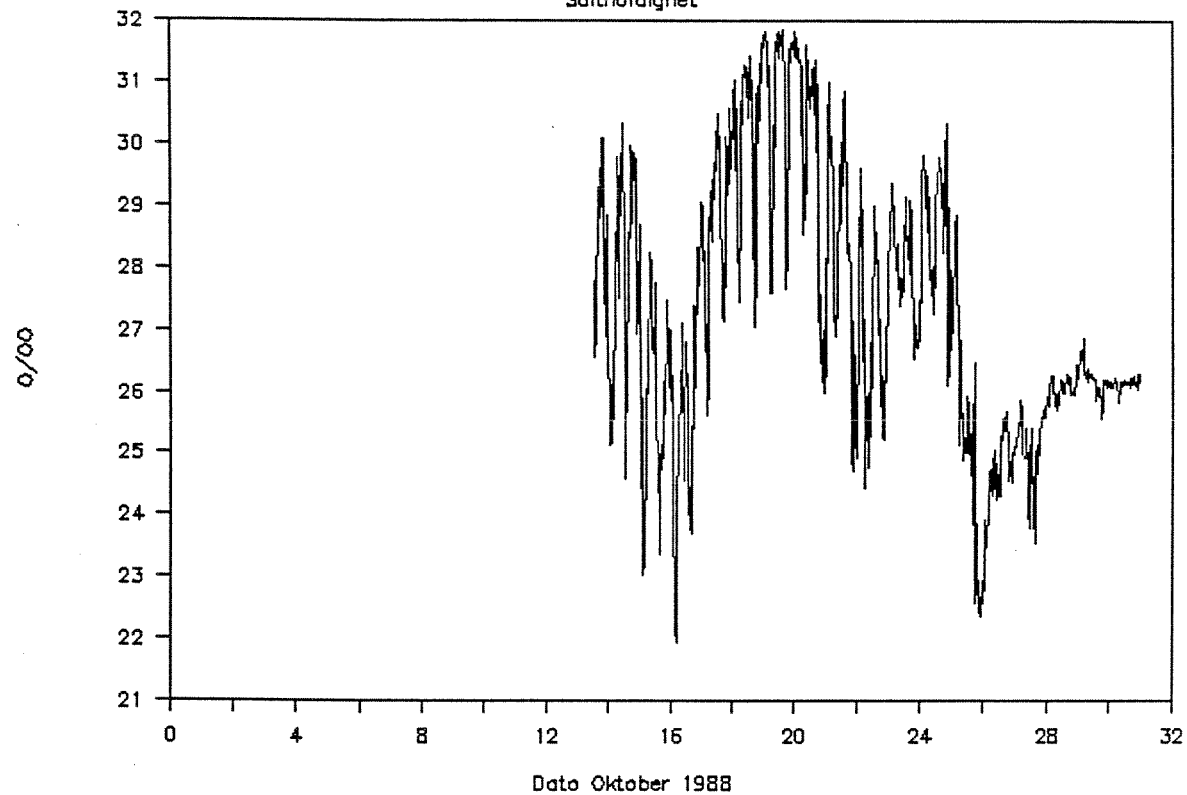
Drøbaksundet øst 5 m

Temperatur



Drøbaksundet øst 5 m

Saltholdighet

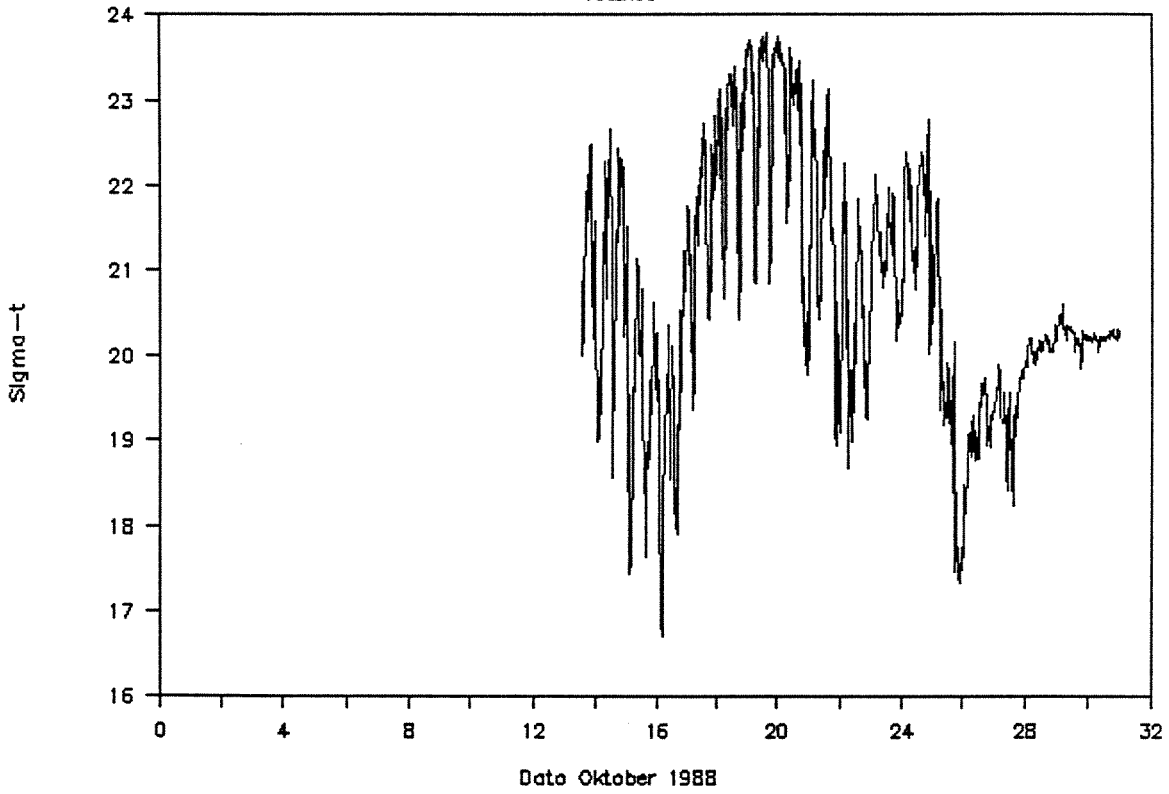


VERITEC

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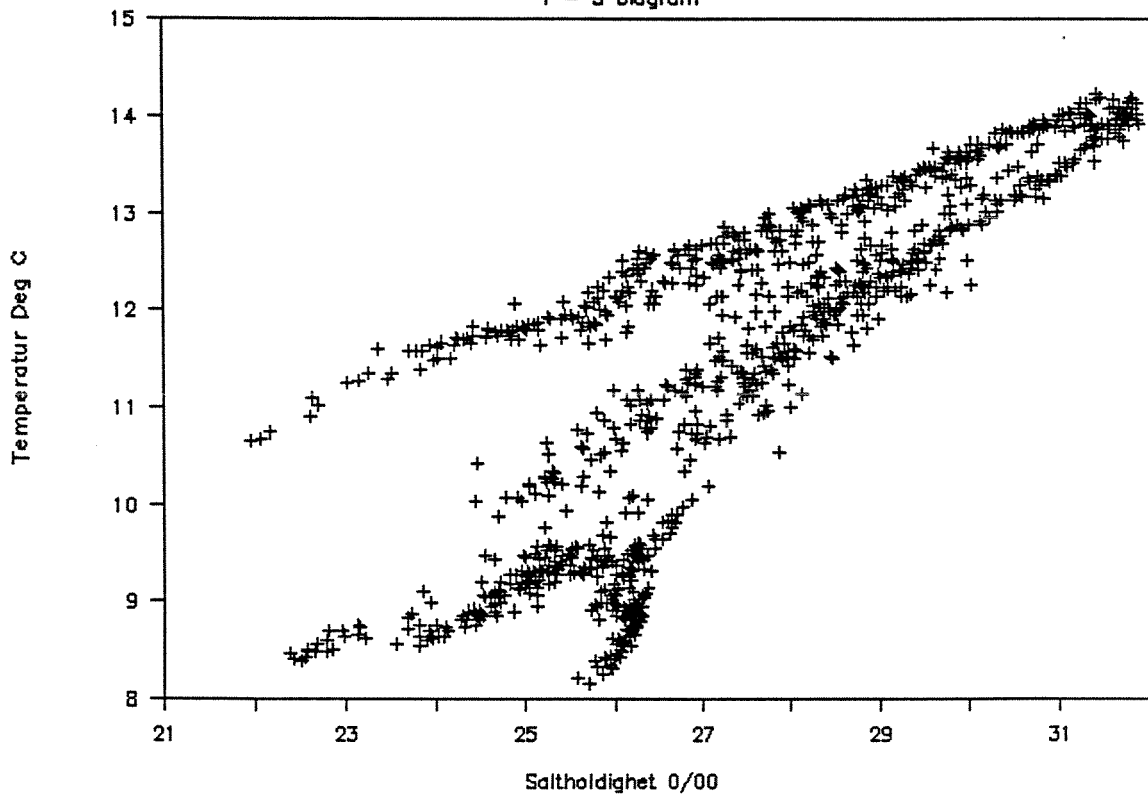
Drøbakundet øst 5 m

Tetthet



Drøbakundet øst 5 m Oktober 1988

T - S Diagram

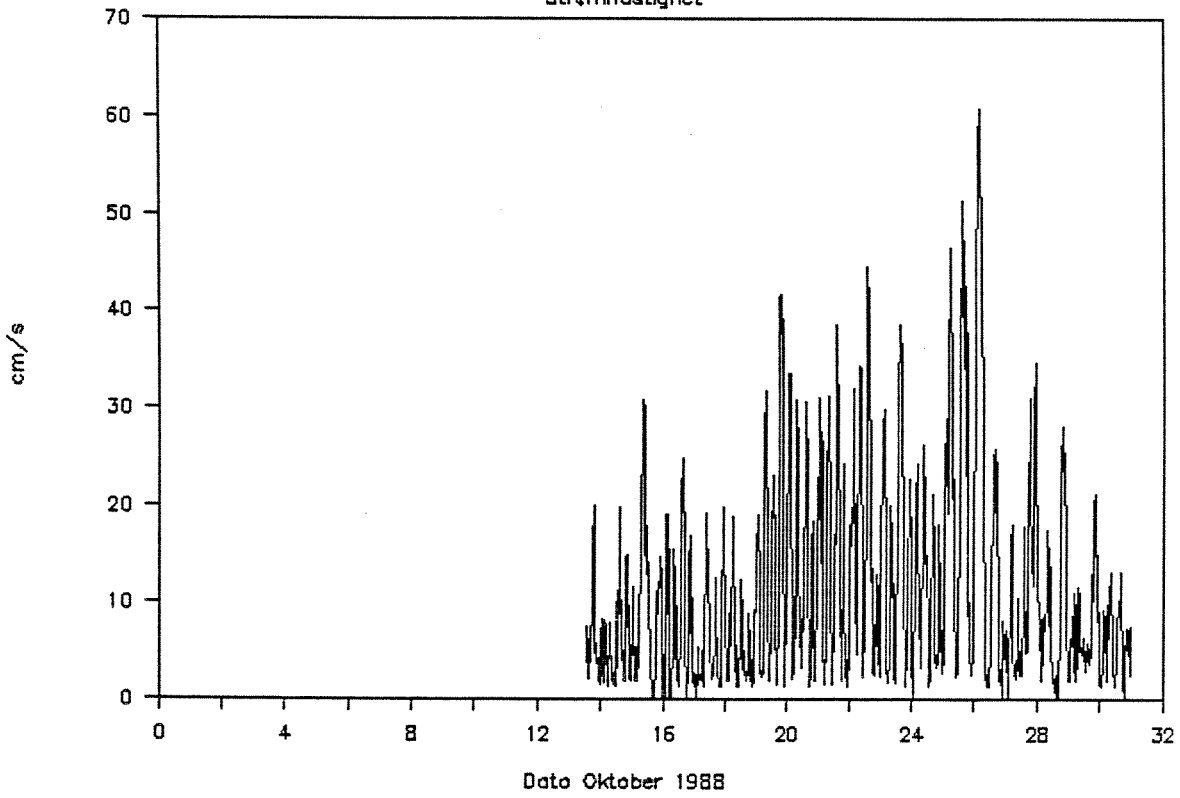


VERITEC

Veritas Offshore Technology
and Services A/S

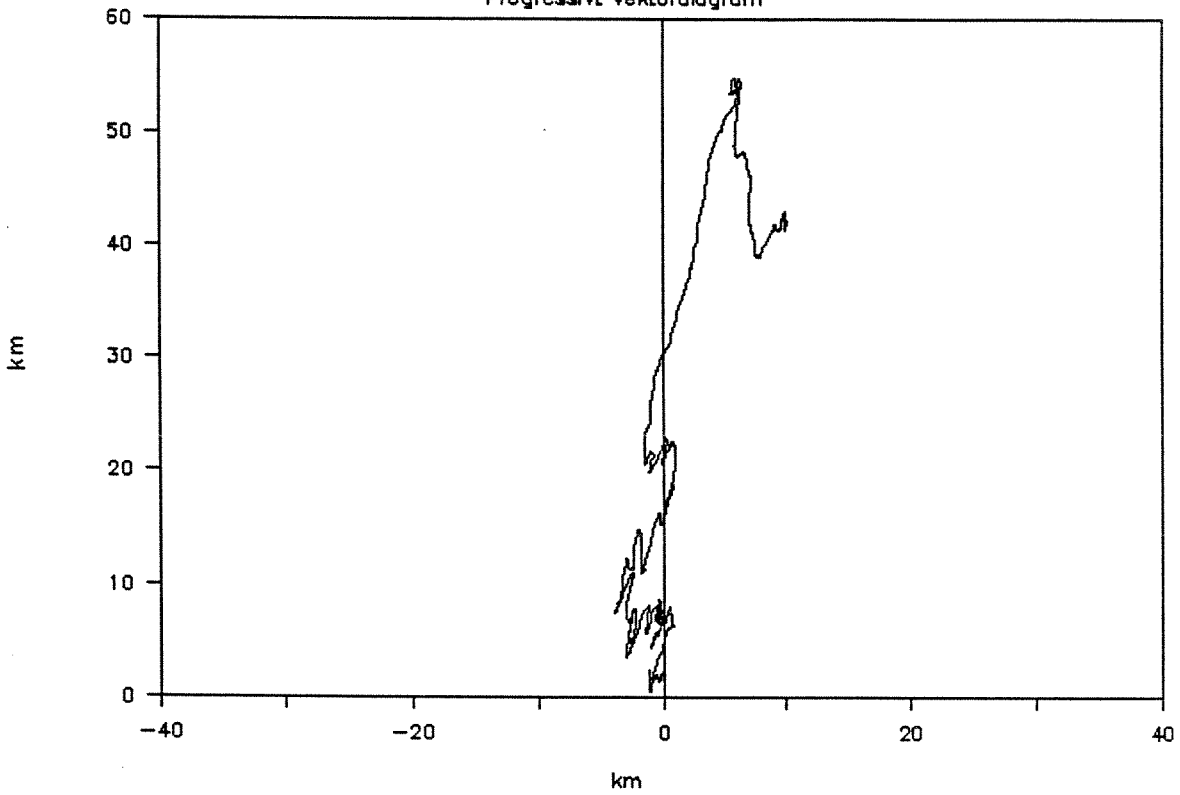
Drøbakundet øst 5 m

Strømhastighet



Drøbakundet øst 5 m Oktober 1988

Progressivt Vektordiagram

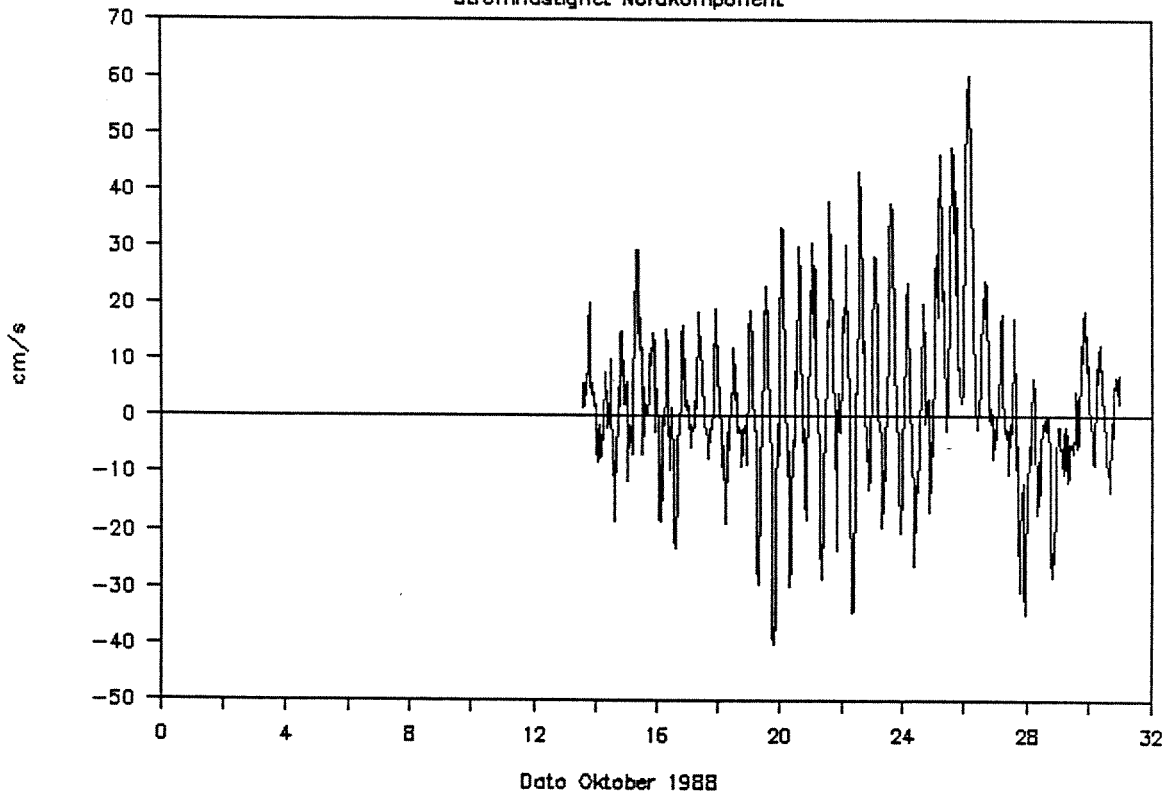


VERITEC

Veritas Offshore Technology
and Services A/S

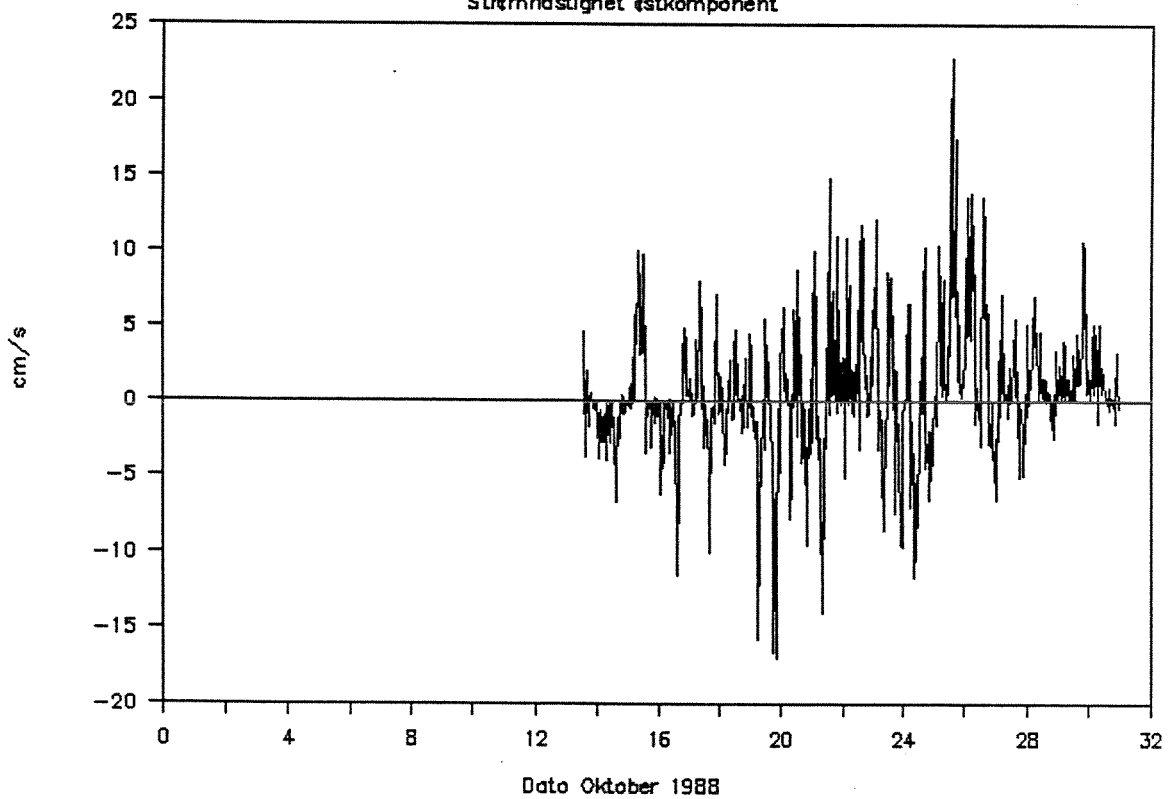
Drøbakundet øst 5 m

Strømhastighet Nordkomponent



Drøbakundet øst 5 m

Strømhastighet østkomponent

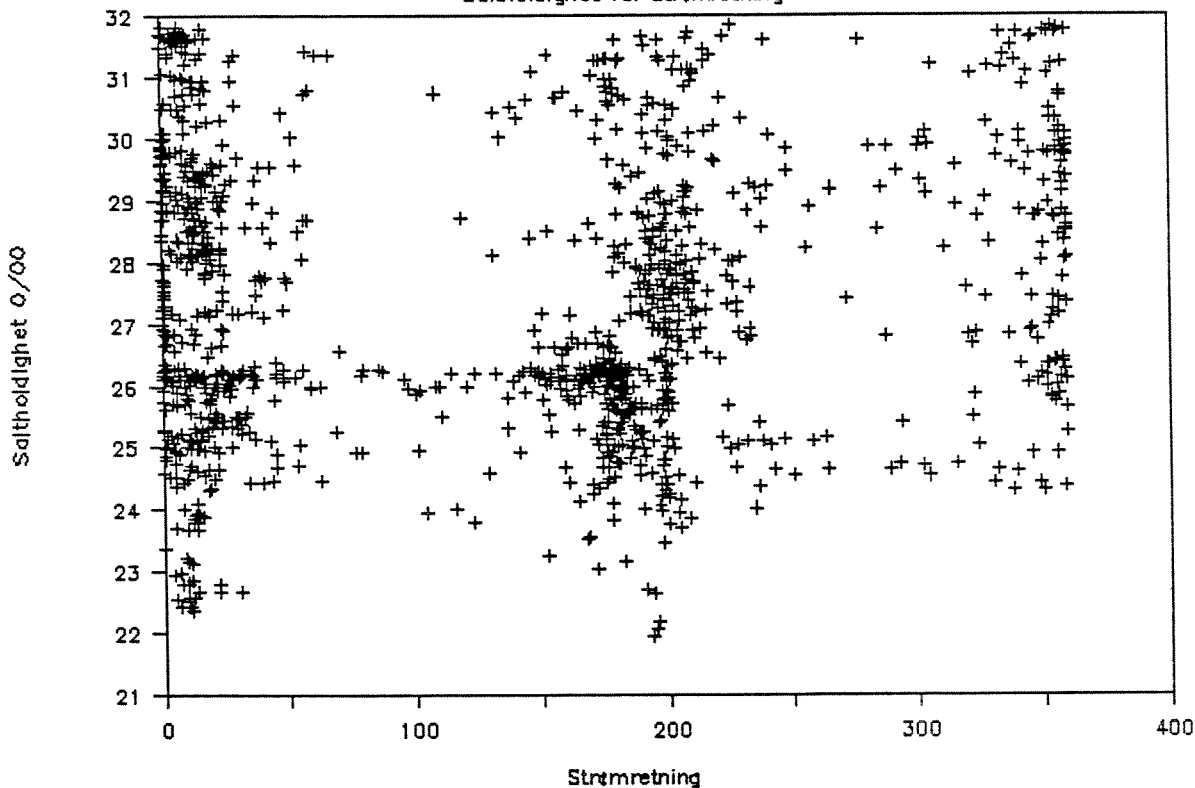


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Veritas Offshore Technology
and Services A/S

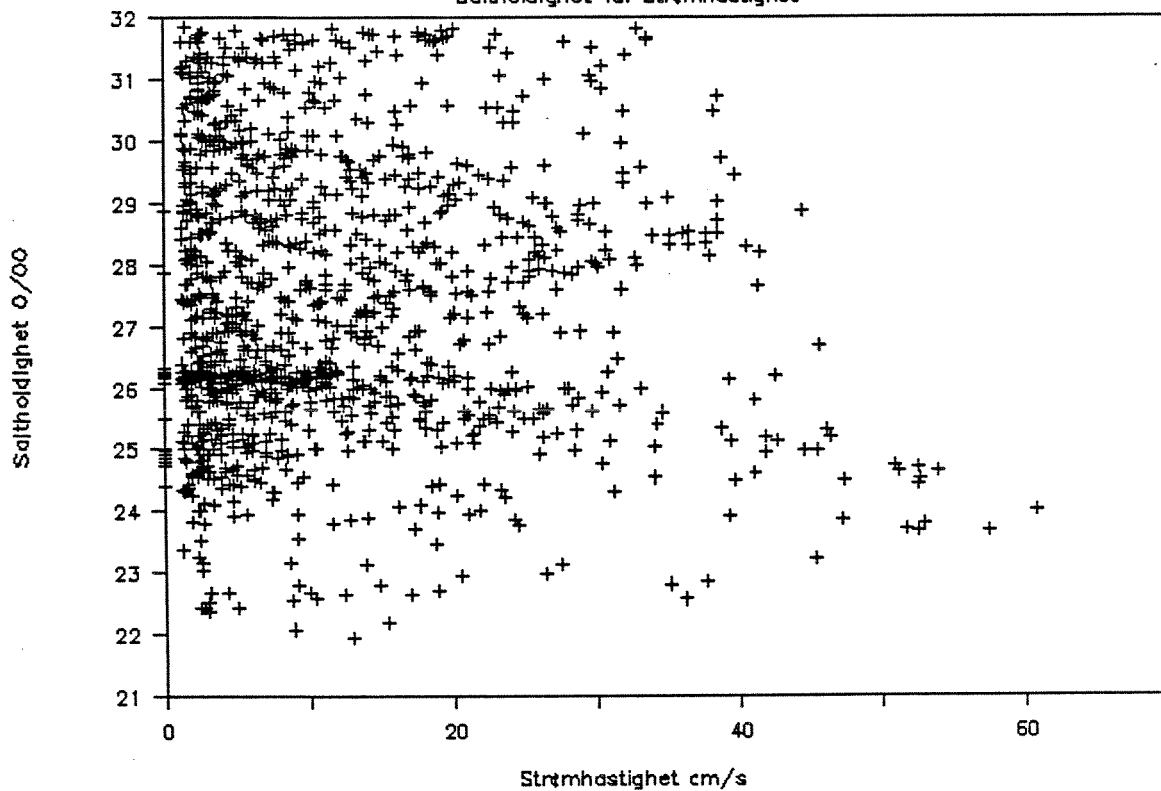
Drøbakundet øst 5 m Oktober 1988

Saltholdighet vs. Strømretning



Drøbakundet øst 5 m Oktober 1988

Saltholdighet vs. Strømhastighet

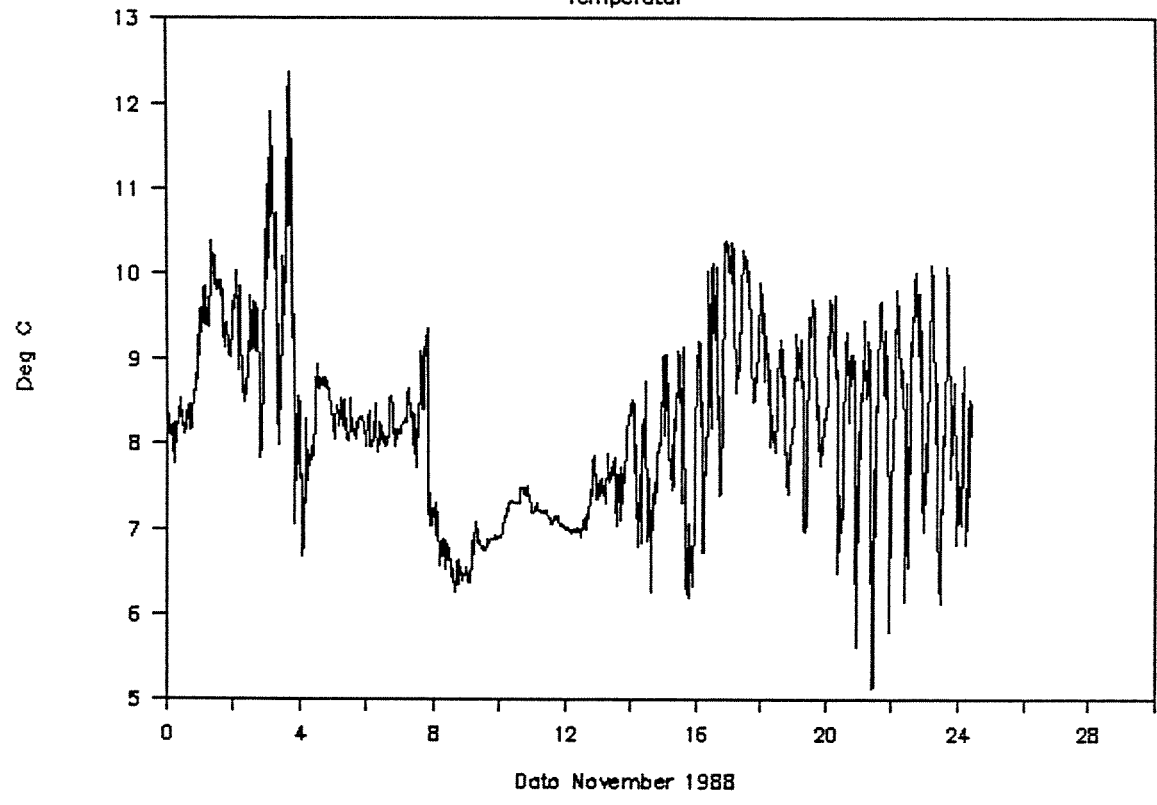


VERITEC

Veritas Offshore Technology
and Services A/S

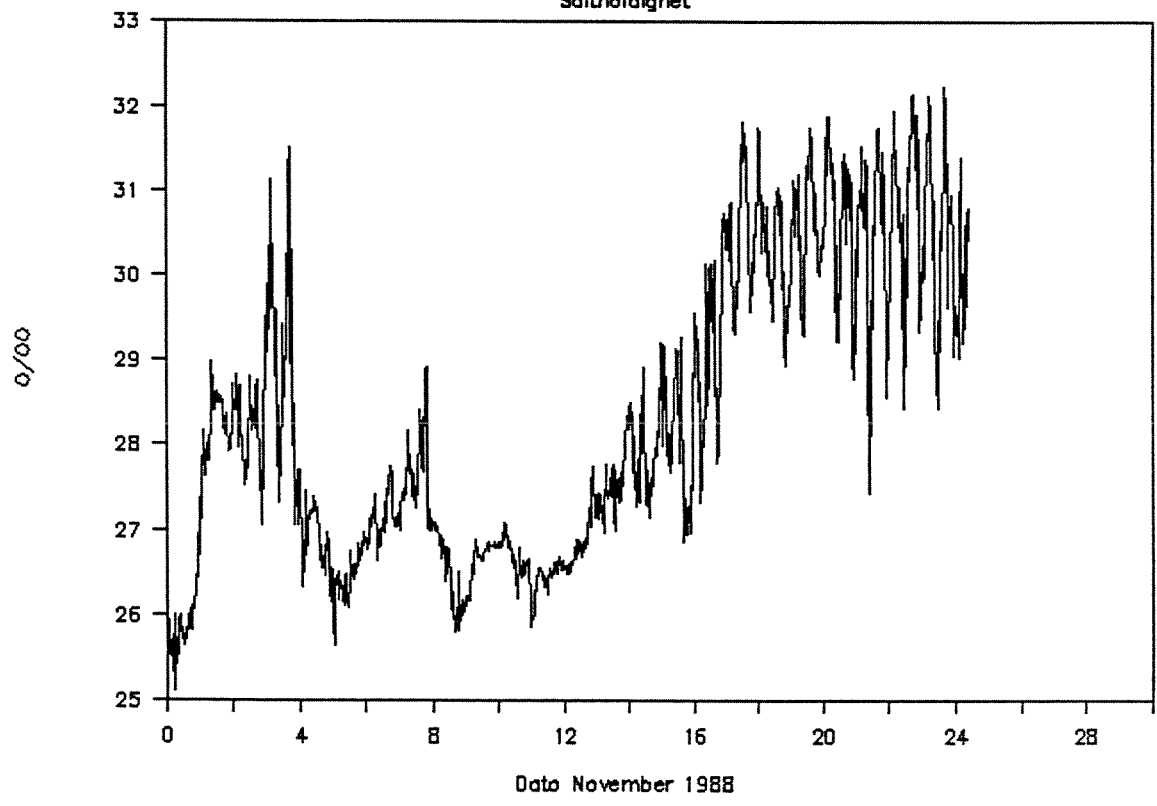
Drøbaksundet øst 5 m

Temperatur



Drøbaksundet øst 5 m

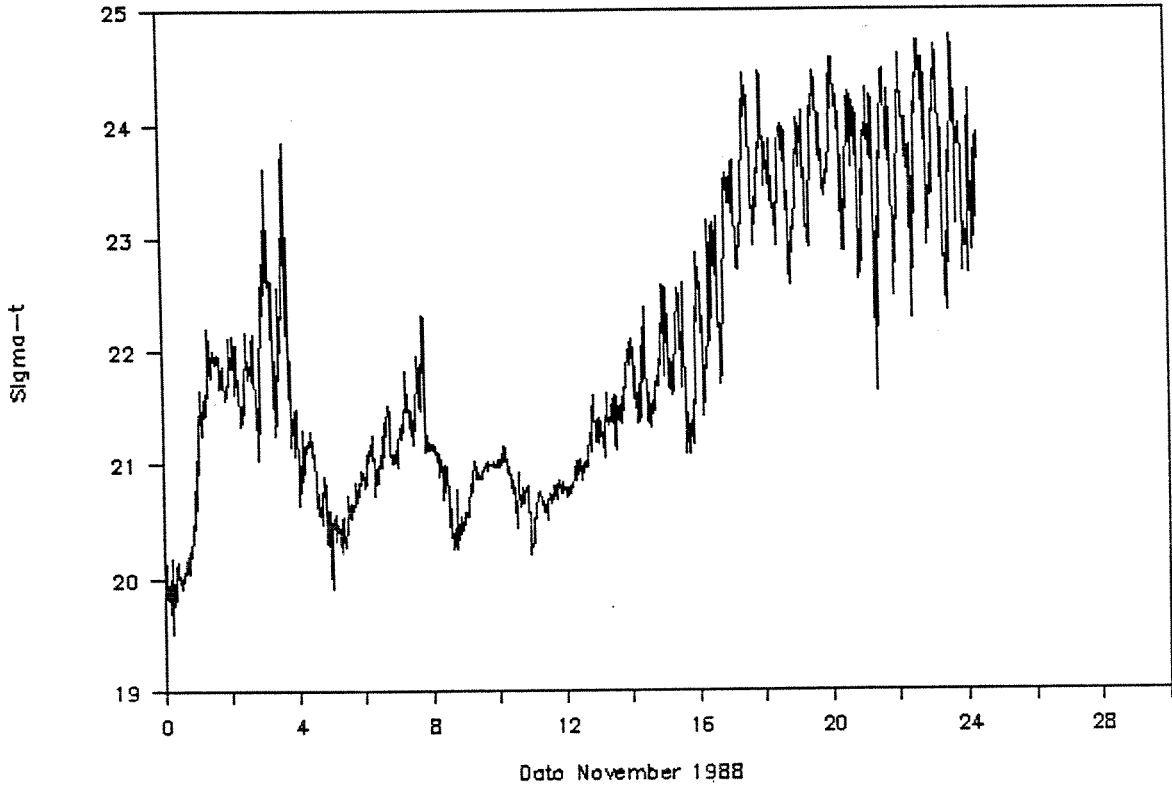
Saltholdighet



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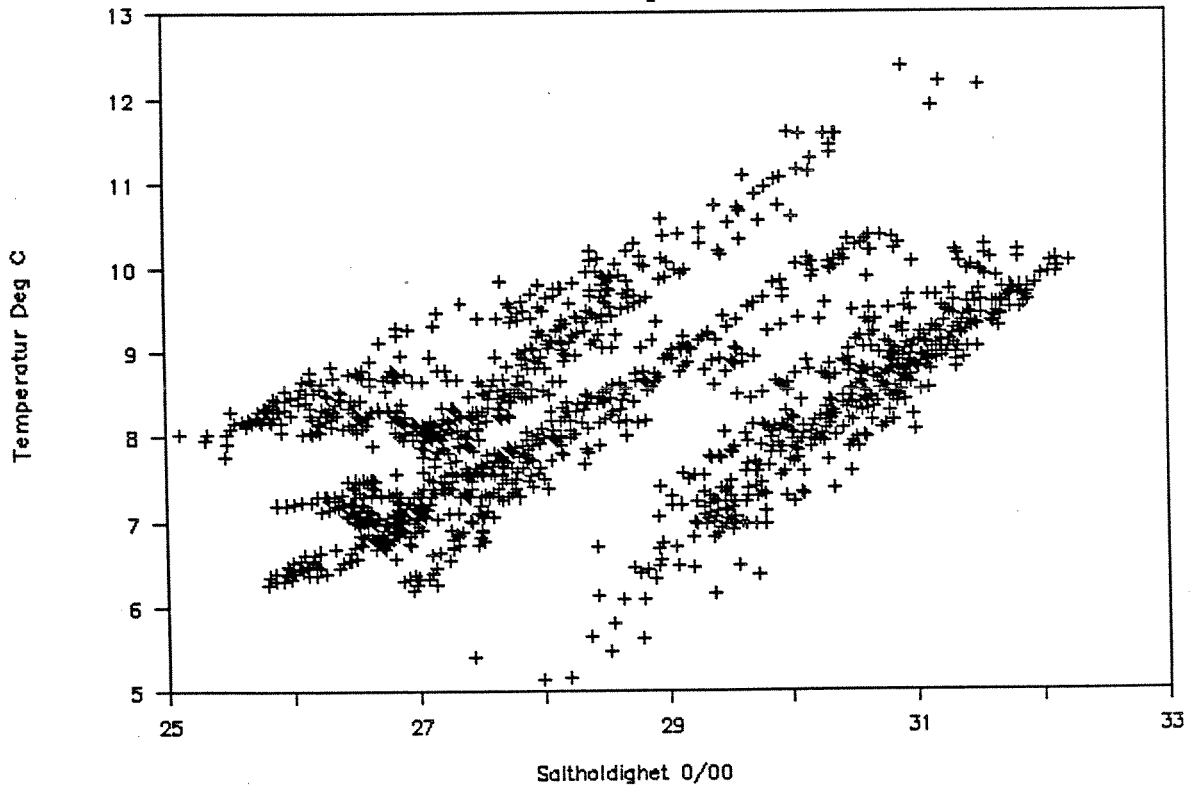
Drøbakundet øst 5 m

Tetthet



Drøbakundet øst 5 m November 1988

TS - Diagram

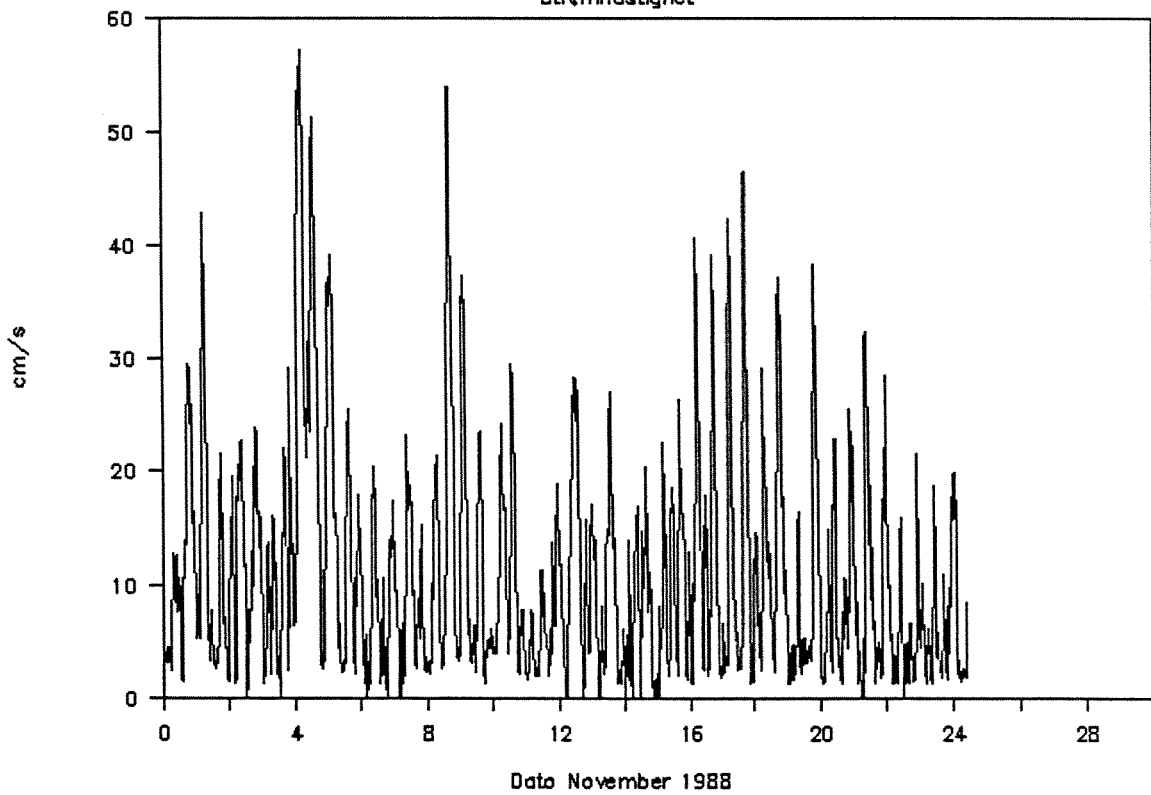


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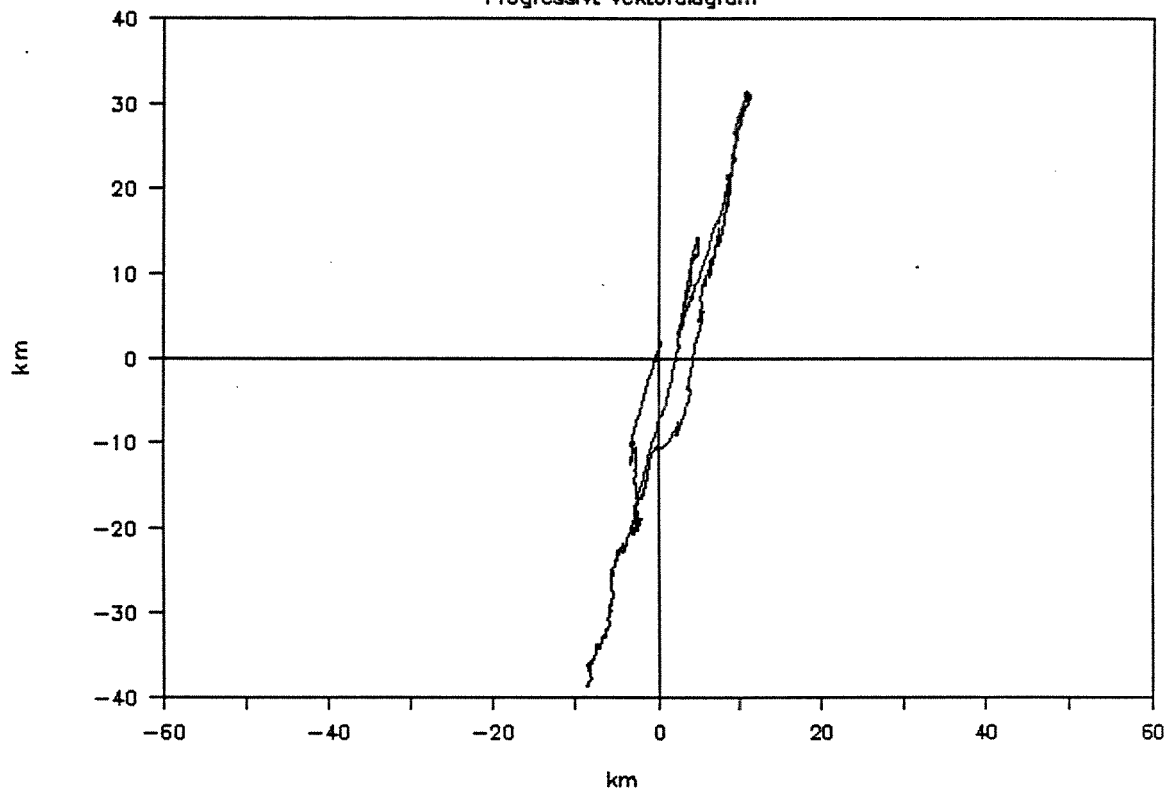
Drøbakundet øst 5 m

Strømhastighet



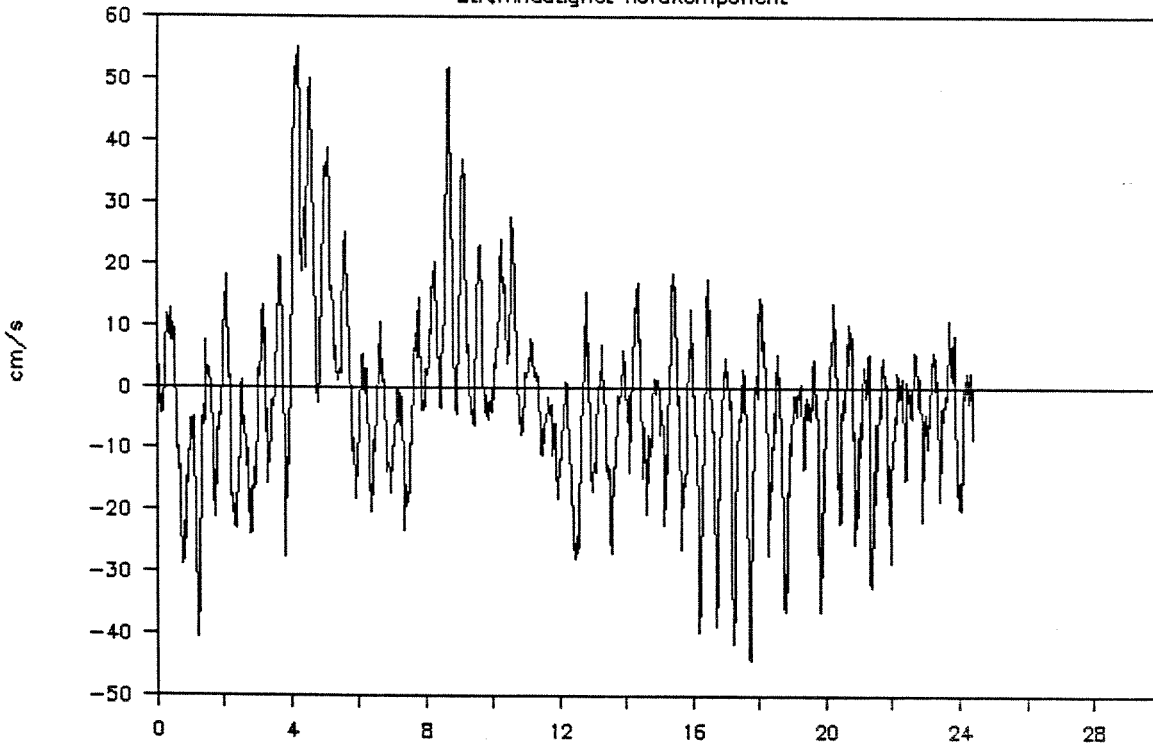
Drøbakundet øst 5 m November 1988

Progressivt Vektordiagram

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Drøbakundet øst 5 m

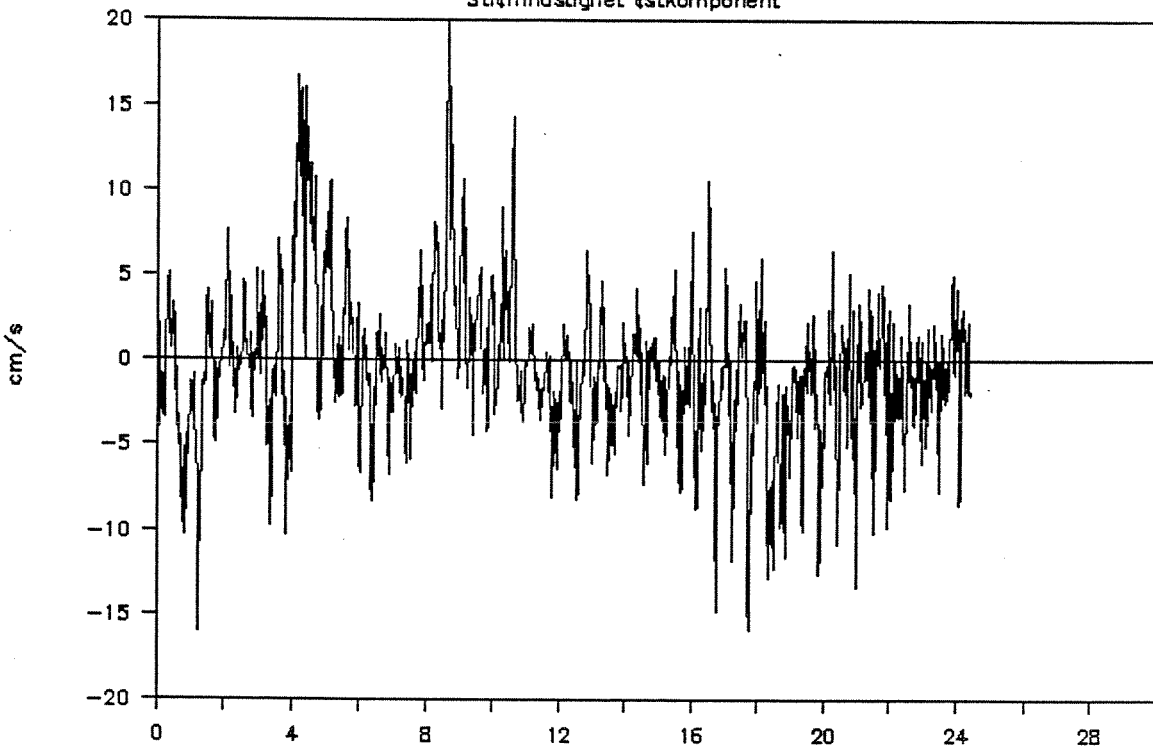
Strømhastighet nordkomponent



Date November 1988

Drøbakundet øst 5 m

Strømhastighet østkomponent



Date November 1988

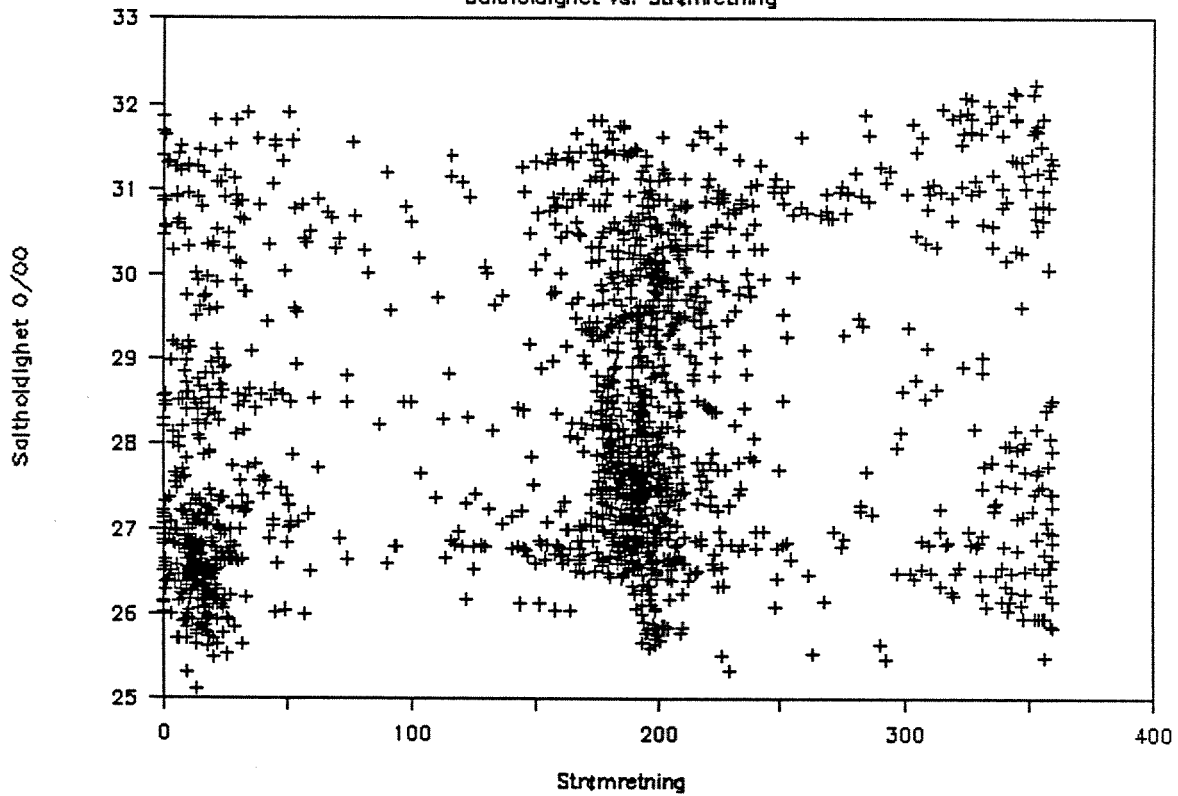


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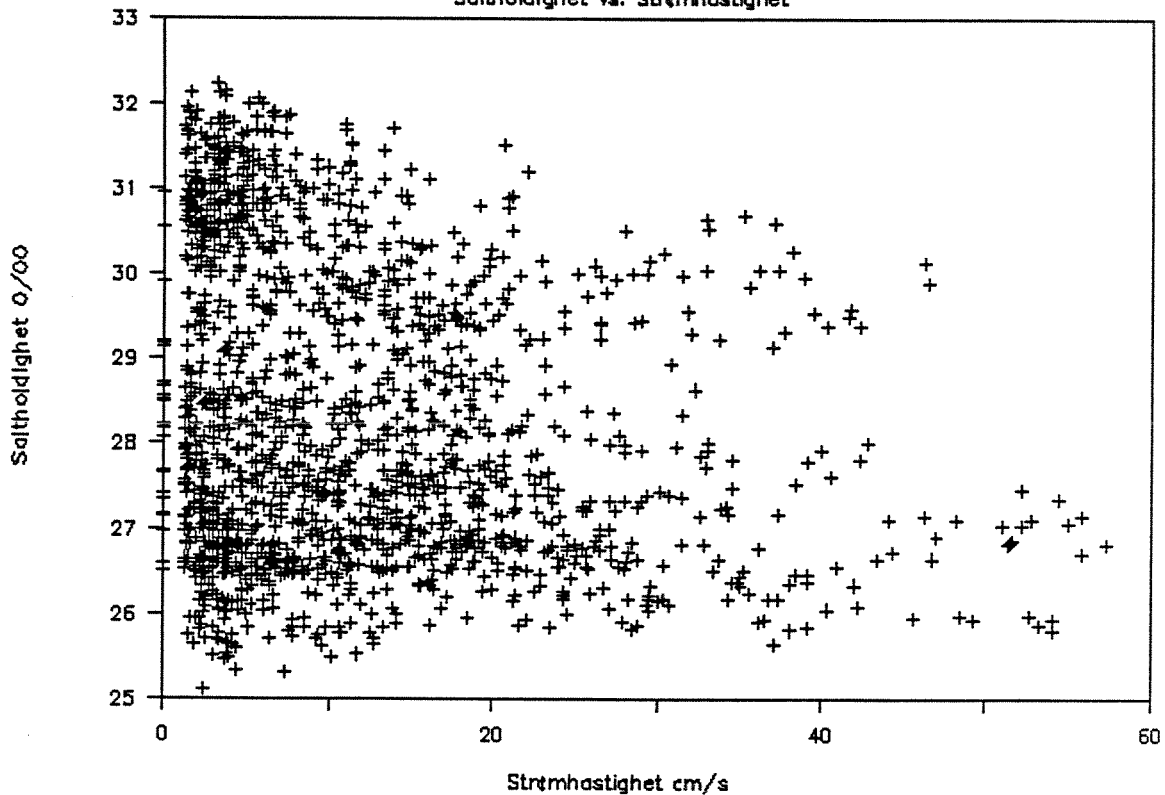
Drøbaksundet øst 5 m November 1988

Saltholdighet vs. Strømretning



Drøbaksundet øst 5 m November 1988

Saltholdighet vs. Strømhastighet



VERITEC

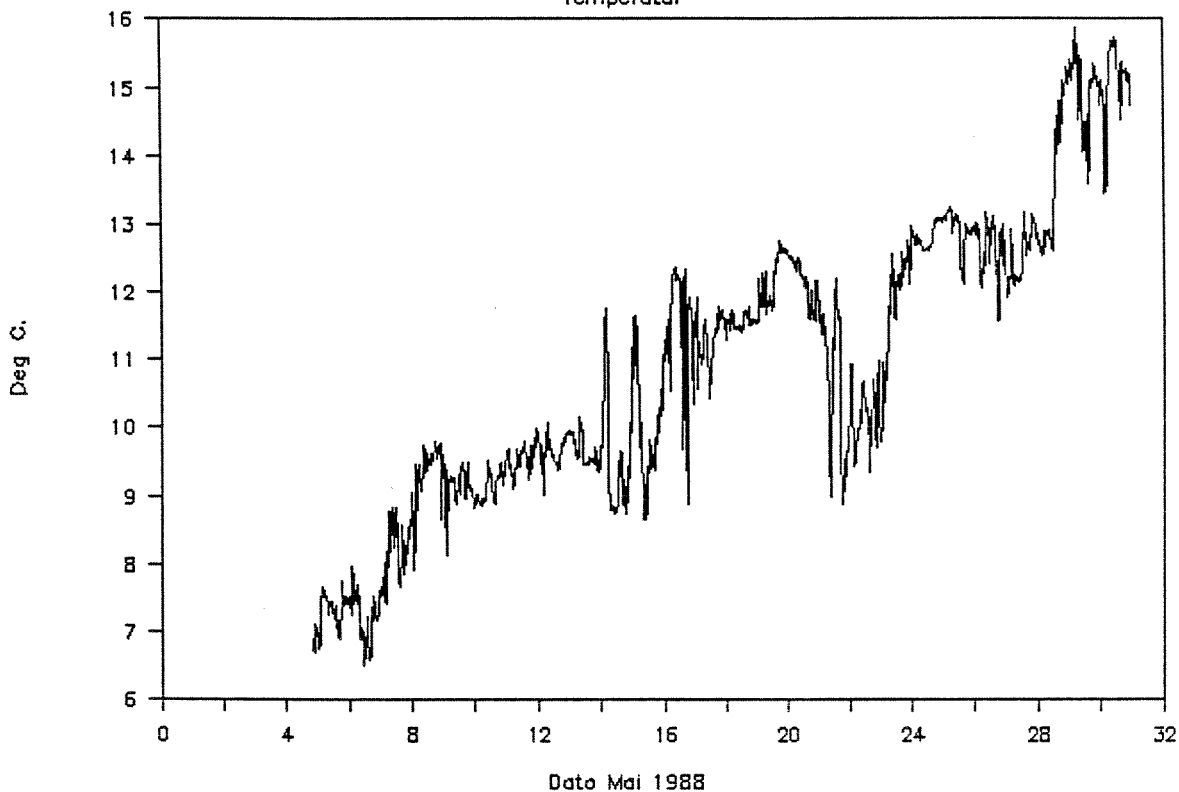
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FINAL ANALYSIS RESULTS IN CURRENT ELLIPSE FORM
 FOR STATION 9999, MISSINGENE 10 METERS ,AT THE LOCATION 59 10, 10 42
 OVER THE PERIOD OF 21HR 5/ 5/88 TO 4HR 29/ 6/88
 GREENWICH PHASES ARE FOR TIME ZONE GMT

NAME	SPEED	MAJOR	MINOR	INC	G	G+	G-
1 ZO	.00000000	18.626	.000	9.5	.0	350.5	9.5
2 MM	.00151215	19.802	-3.017	128.0	162.7	34.7	290.7
3 MSF	.00282193	41.594	-3.231	93.3	37.5	304.2	130.8
4 ALP1	.03439657	3.609	-.316	108.1	345.1	237.0	93.3
5 2Q1	.03570635	7.202	-.916	30.2	256.0	225.8	286.1
6 Q1	.03721850	7.059	-1.045	31.1	284.9	253.8	316.0
7 O1	.03873065	6.338	-.180	109.3	93.7	344.4	203.0
8 NO1	.04026860	7.449	-.528	64.4	36.5	332.1	101.0
9 K1	.04178075	14.917	-7.628	82.5	124.7	42.2	207.2
10 J1	.04329290	3.847	3.083	47.3	332.7	285.4	20.0
11 OO1	.04483084	5.558	-.194	89.0	28.1	299.1	117.1
12 UPS1	.04634299	4.609	-1.575	76.9	8.4	291.5	85.3
13 EPS2	.07617731	5.839	-1.354	39.3	266.7	227.4	306.0
14 MU2	.07768947	11.322	-6.813	37.3	245.0	207.7	282.3
15 N2	.07899925	9.401	-3.923	11.4	318.0	306.6	329.3
16 M2	.08051140	14.548	-2.061	52.8	105.5	52.7	158.3
17 L2	.08202355	9.861	-2.583	23.9	50.2	26.3	74.1
18 S2	.08333334	4.894	1.057	36.4	261.5	225.1	298.0
19 ETA2	.08507364	6.111	3.000	43.5	109.3	65.8	152.9
20 M03	.11924210	2.834	-1.313	118.6	118.1	359.5	236.7
21 M3	.12076710	3.705	1.890	104.0	54.2	310.2	158.2
22 MK3	.12229210	3.002	-.359	53.2	186.7	133.5	239.9
23 SK3	.12511410	2.716	-.617	149.8	296.5	146.7	86.2
24 MN4	.15951060	2.092	1.157	94.4	335.5	241.1	69.9
25 M4	.16102280	9.626	-2.996	72.9	350.4	277.5	63.3
26 SN4	.16233260	4.445	.962	146.9	107.9	321.0	254.8
27 MS4	.16384470	3.281	.040	130.4	111.0	340.7	241.4
28 S4	.16666670	3.064	-1.544	151.3	76.9	285.6	228.2
29 2MK5	.20280360	3.075	-.138	95.9	45.9	309.9	141.8
30 2SK5	.20844740	1.642	.366	91.2	129.3	38.1	220.5
31 2MN6	.24002200	3.311	-1.095	93.3	101.1	7.8	194.5
32 M6	.24153420	2.528	-.555	134.9	56.7	281.8	191.6
33 2MS6	.24435610	3.002	-2.251	177.0	91.7	274.7	268.7
34 2SM6	.24717810	1.704	-.223	11.2	158.1	147.0	169.3
35 3MK7	.28331490	1.416	-.011	174.7	151.7	337.0	326.3
36 M8	.32204560	1.411	-.665	38.6	77.7	39.1	116.2

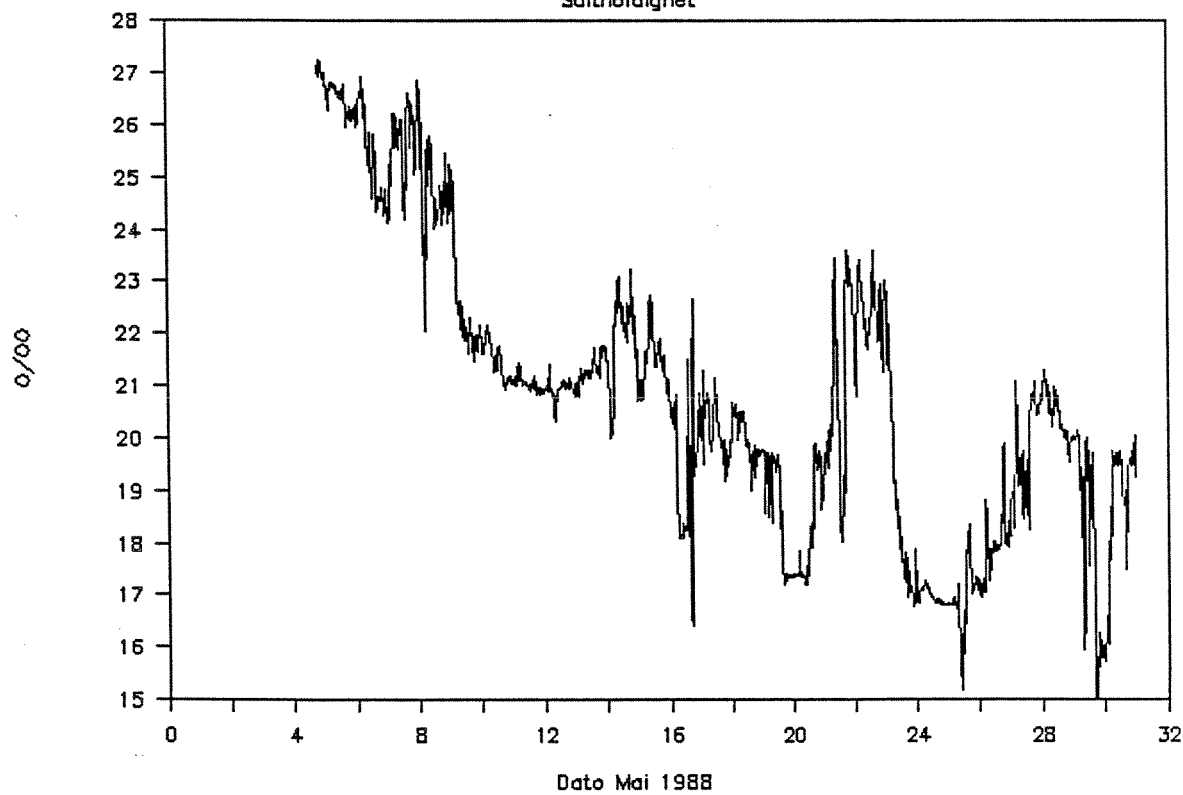
Missingene 5 m.

Temperatur



Missingene 5 m.

Saltholdighet

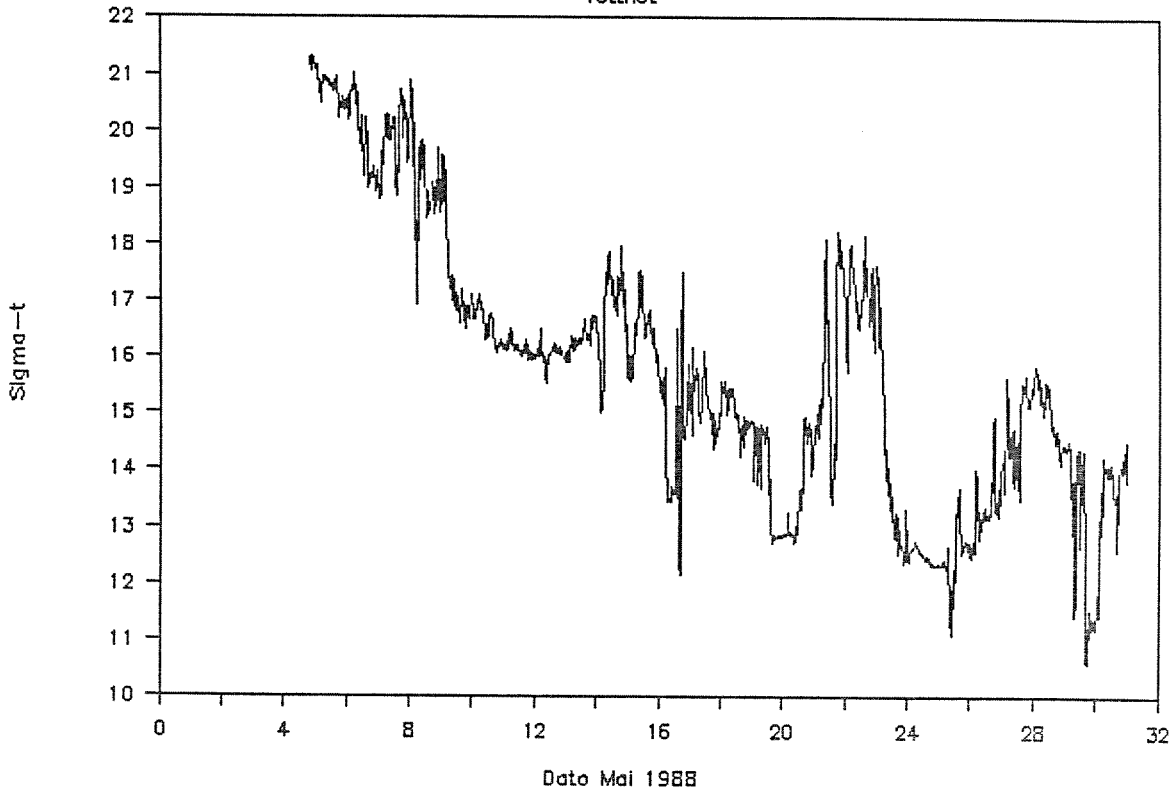


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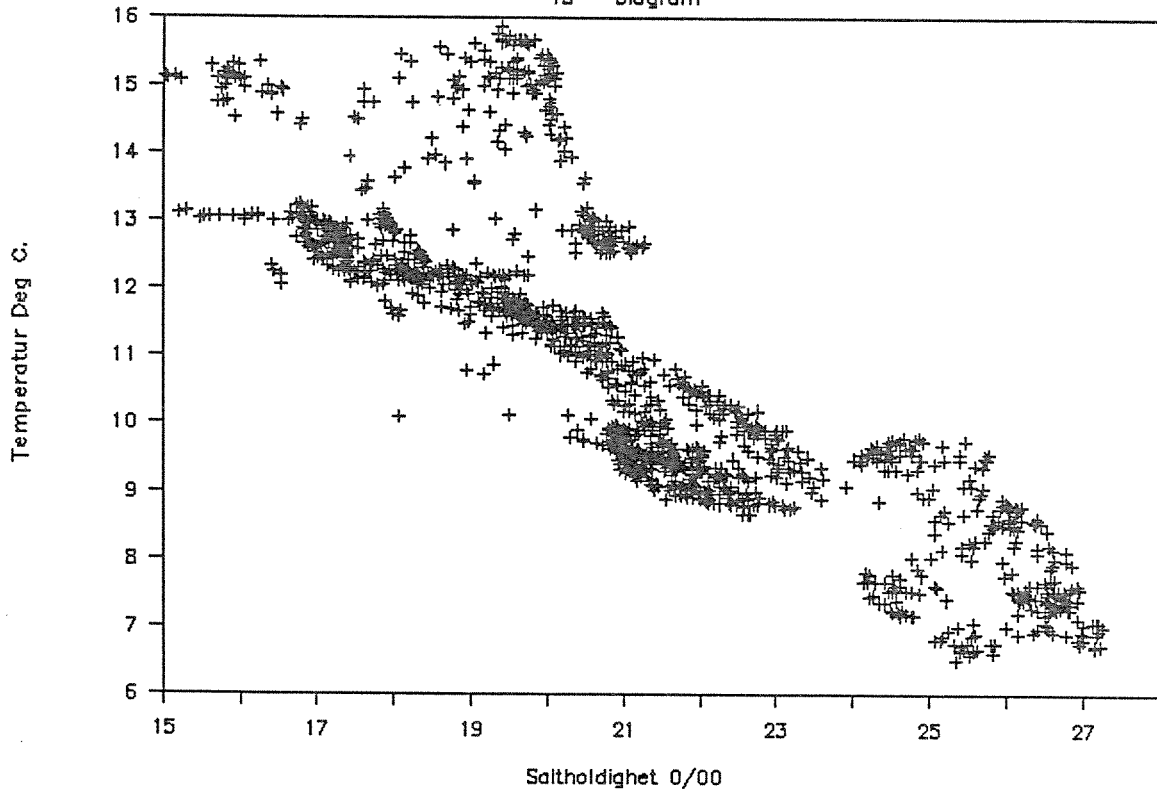
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Tetthet



Missingene 5 m. Mai 1988

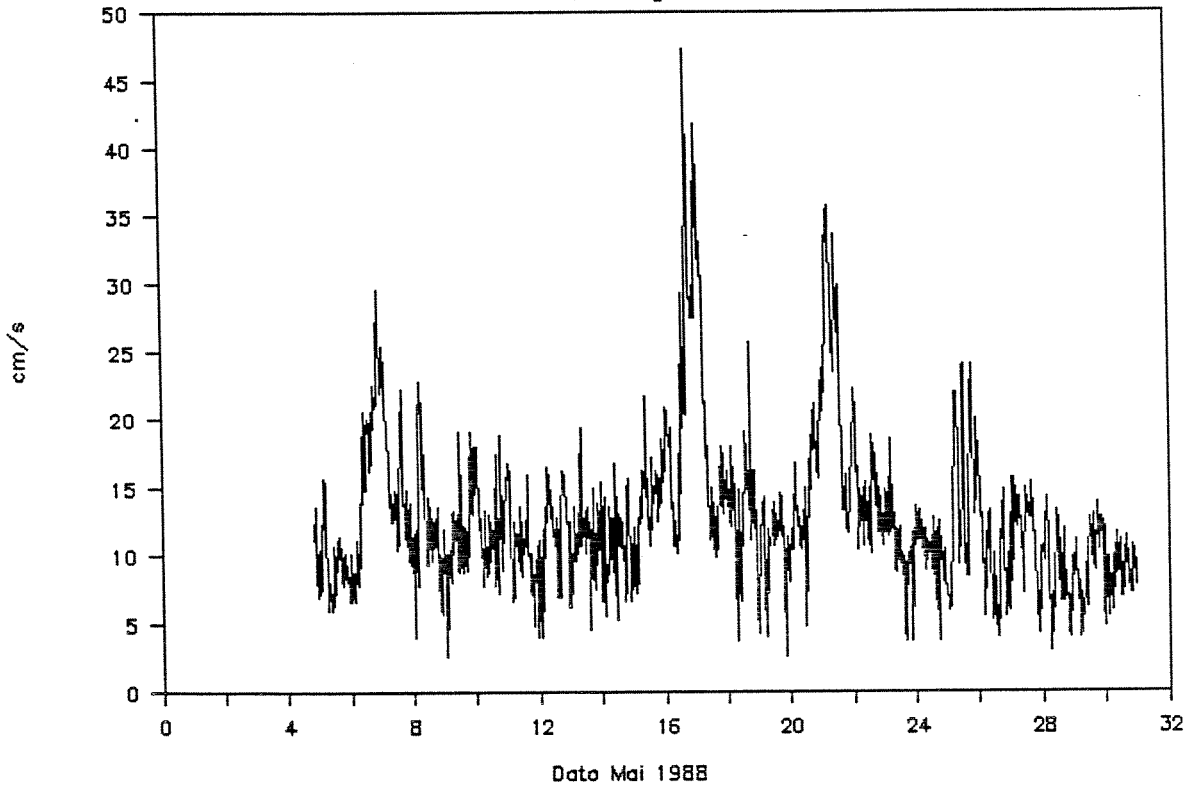
TS - Diagram



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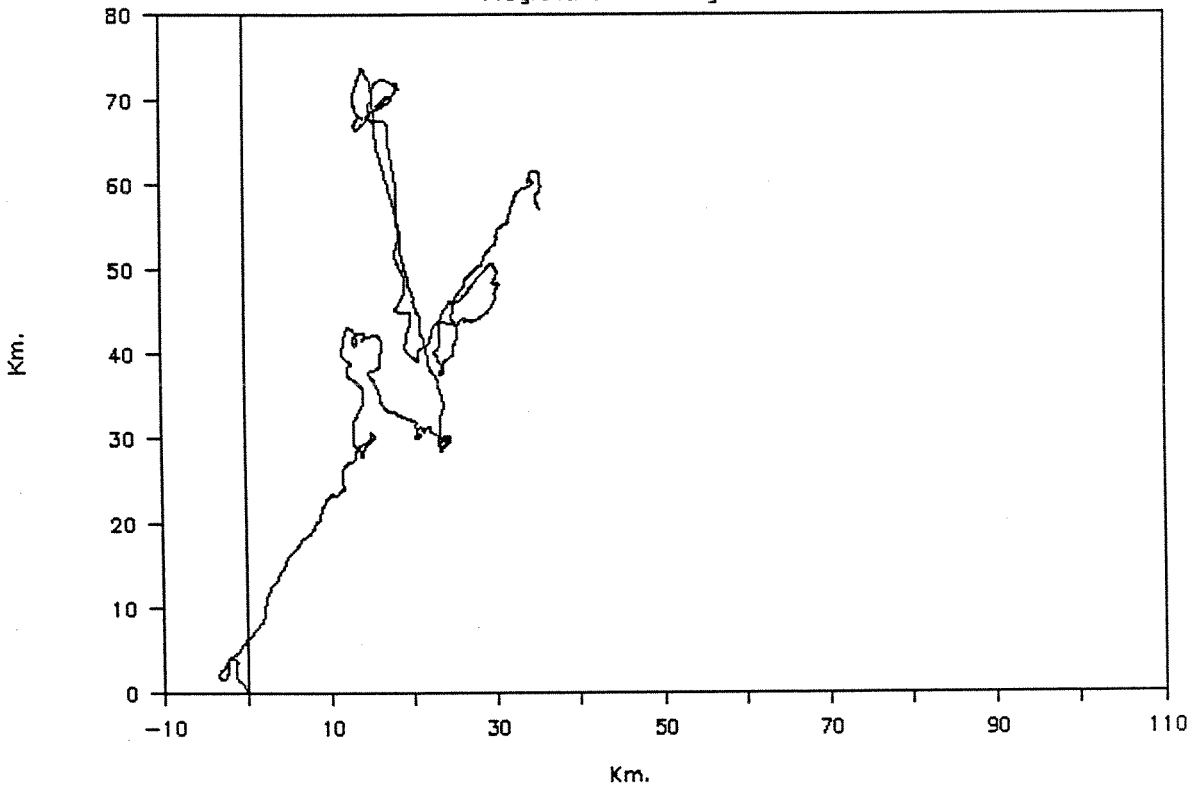
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Strømhastighet



Missingene 5 m. Mai 1988

Progressivt Vektordiagram

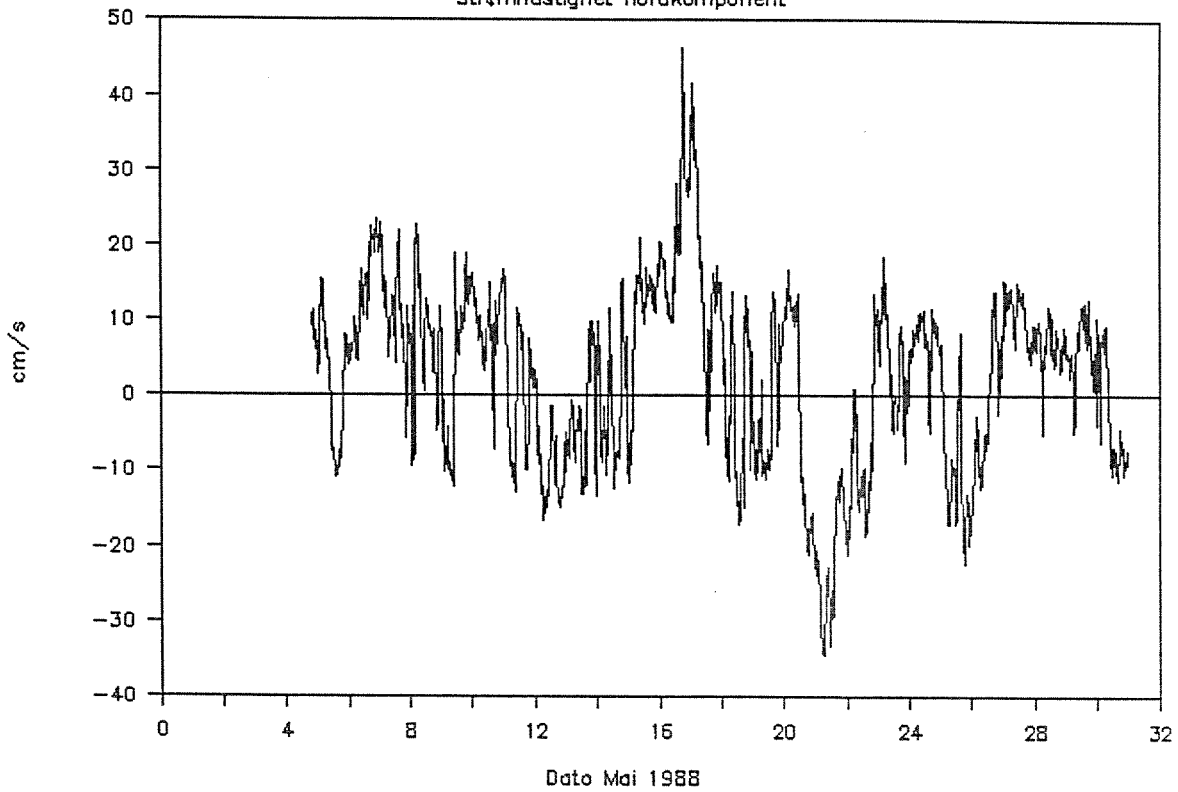


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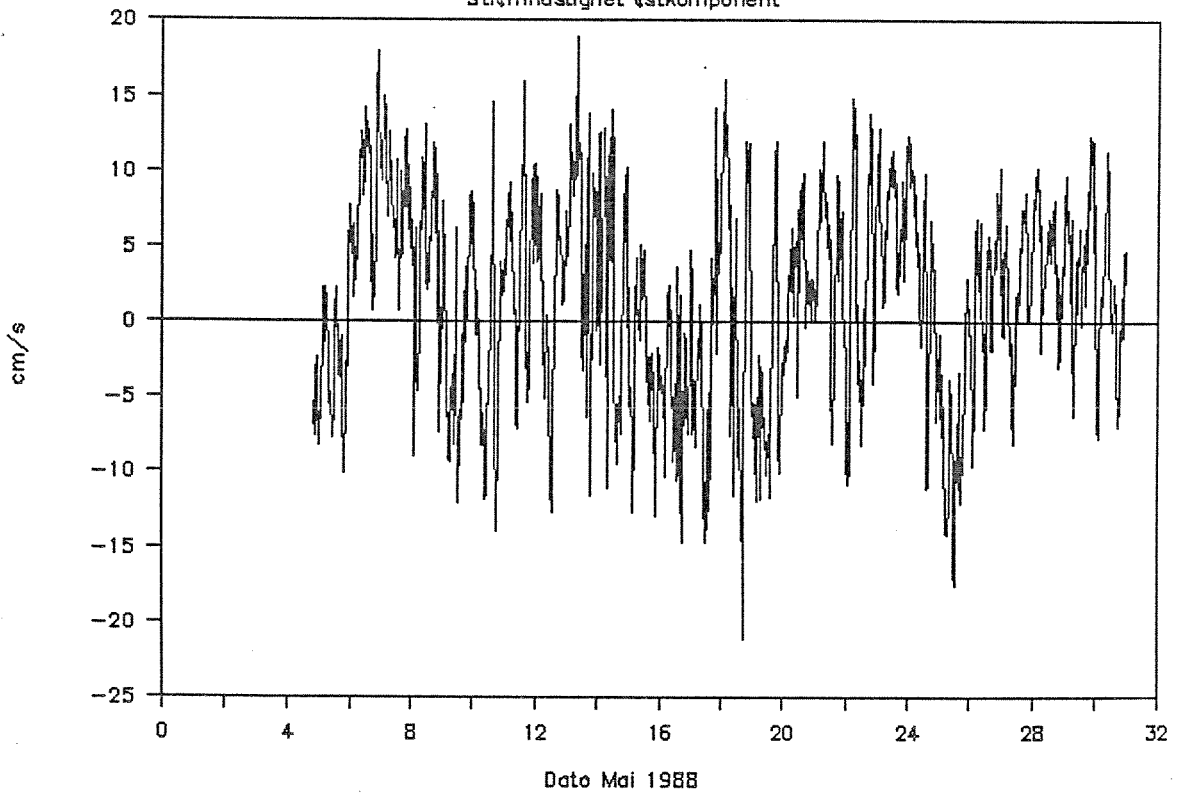
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Strømhastighet nordkomponent



Missingene 5 m.

Strømhastighet østkomponent

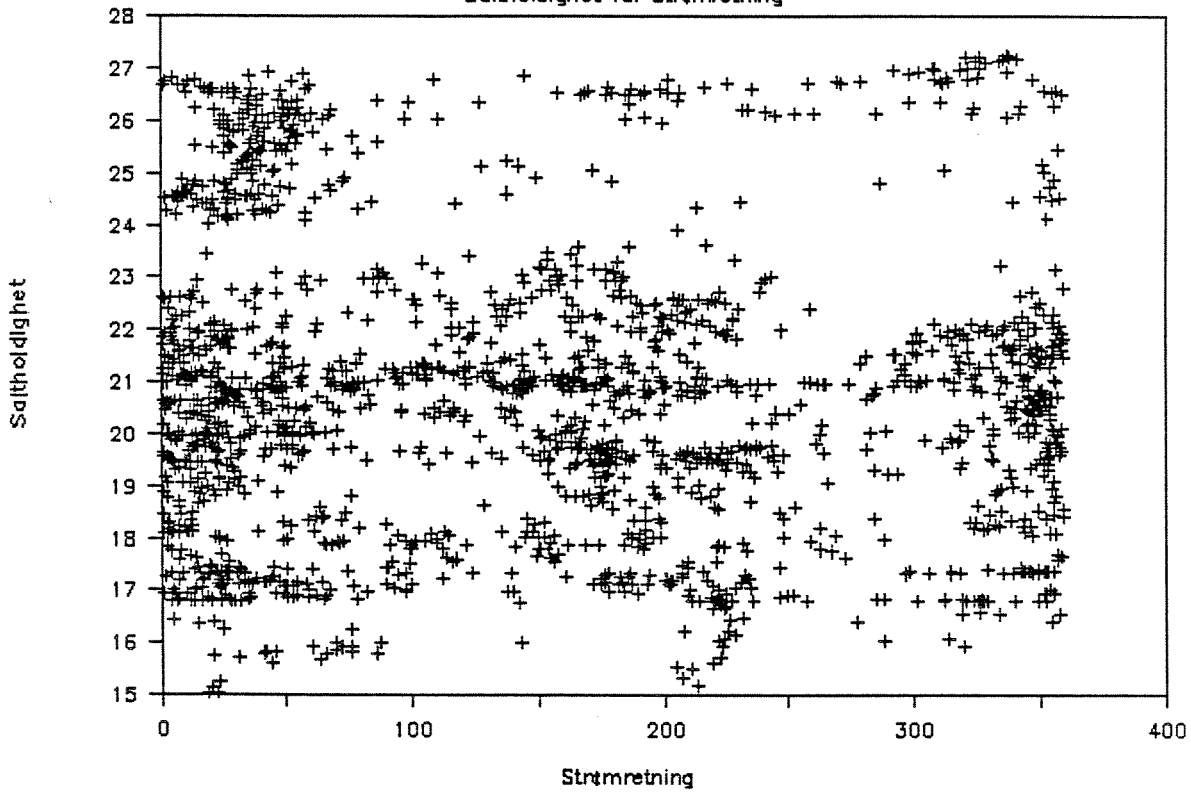


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and Services A/S

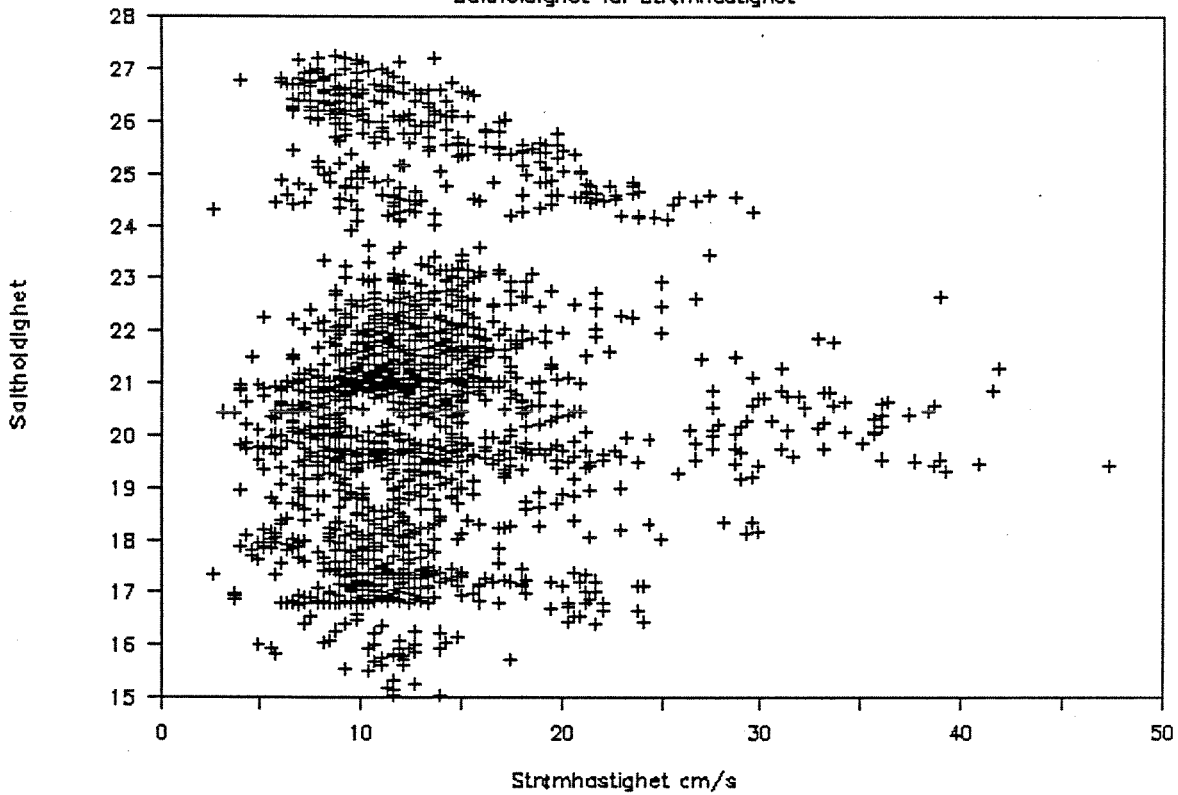
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Saltholdighet vs. Strømretning



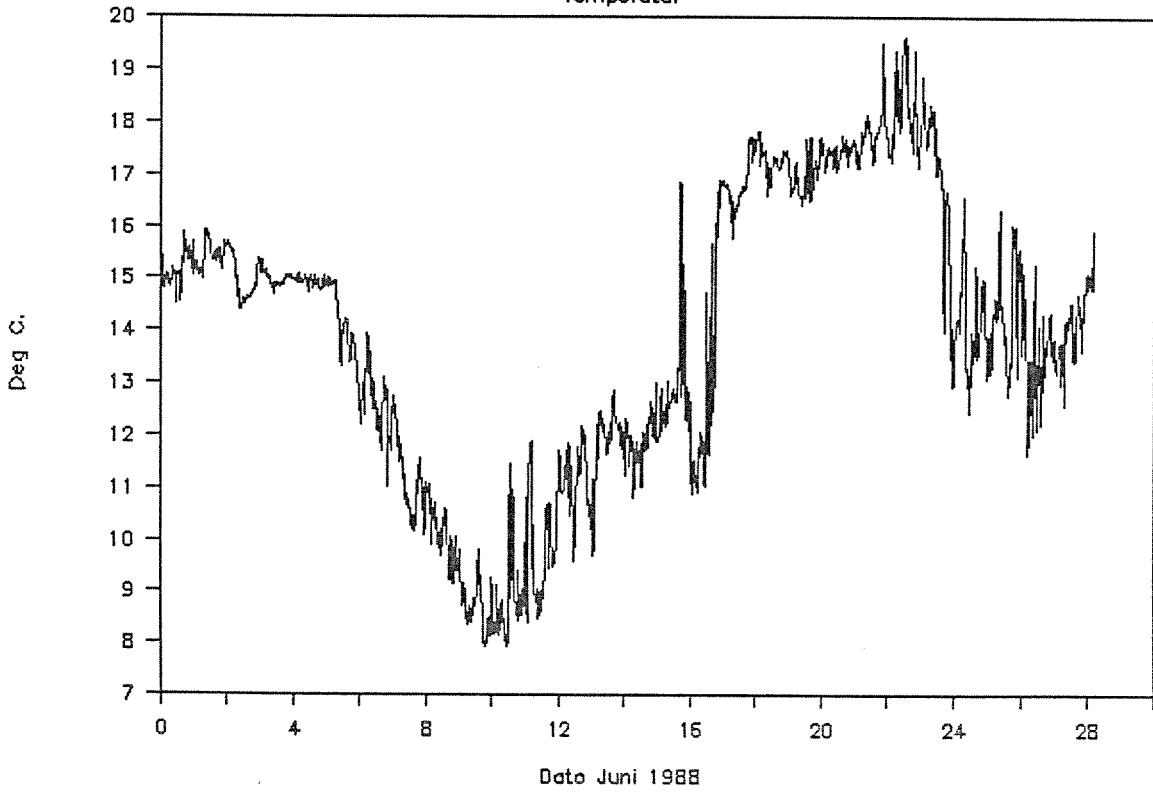
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Saltholdighet vs. Strømhastighet



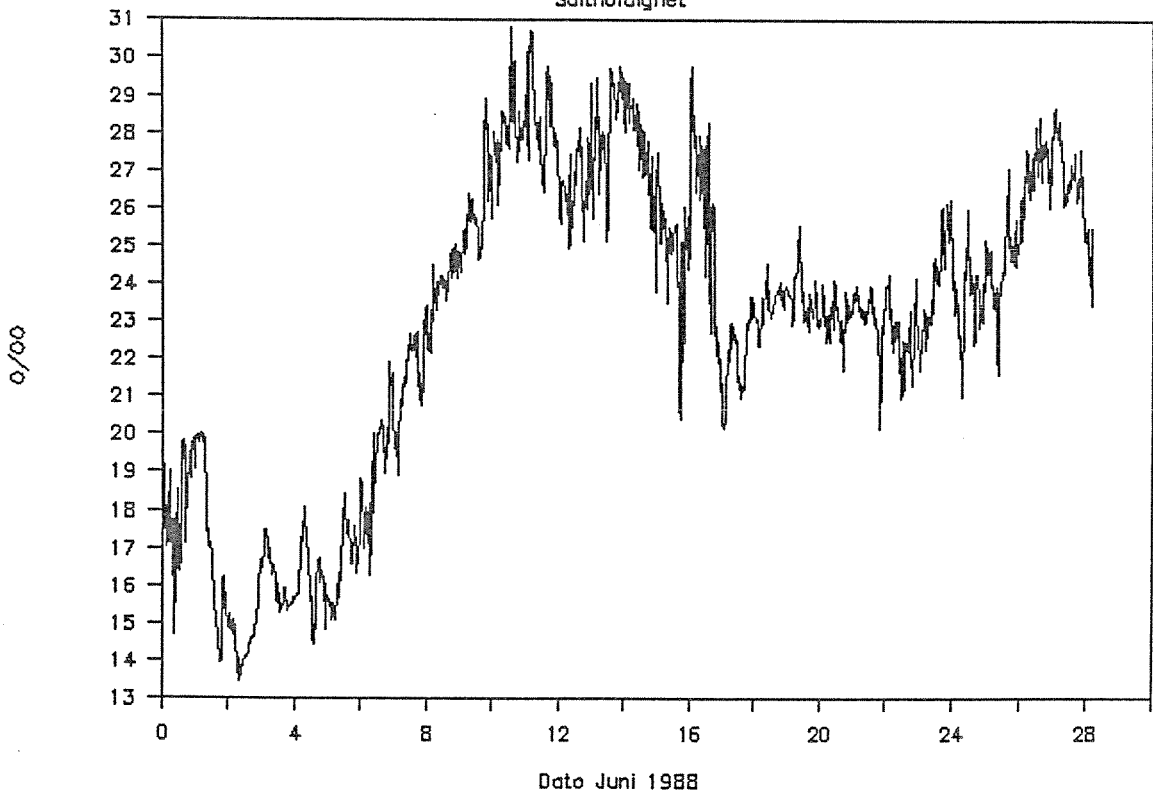
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Temperatur



Missingene 5 m.

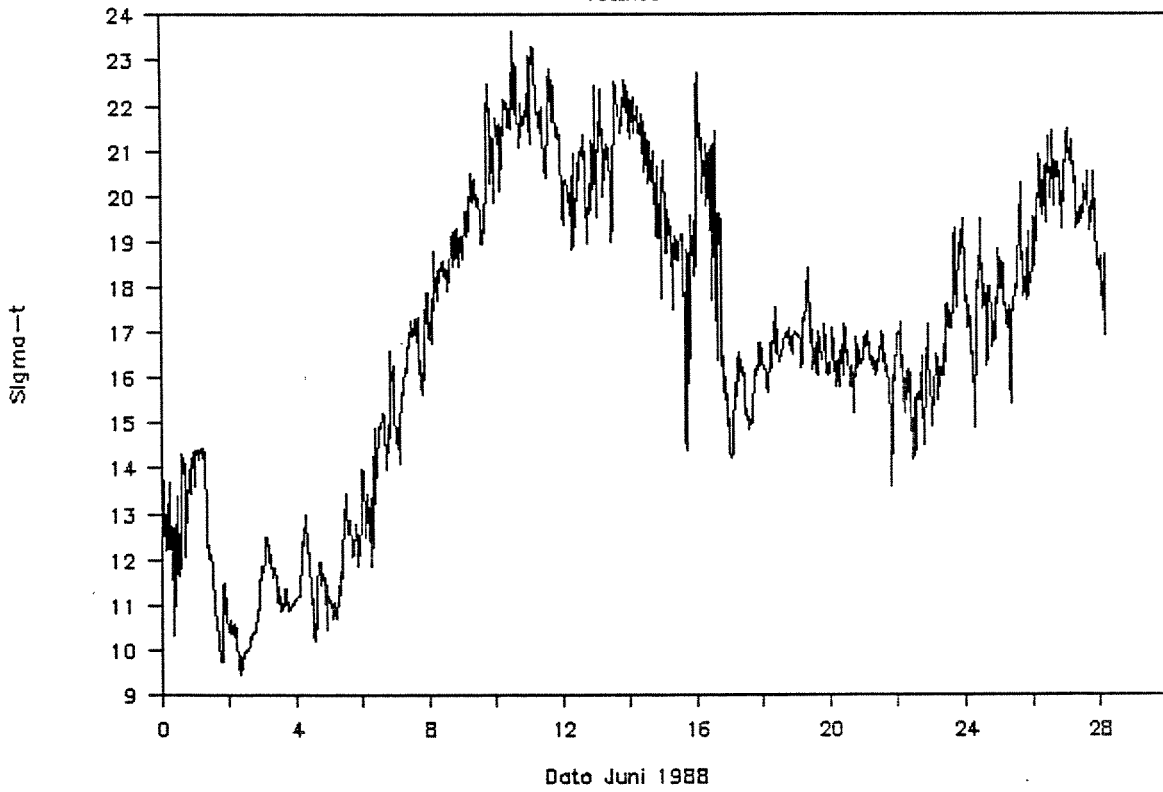
Saltholdighet



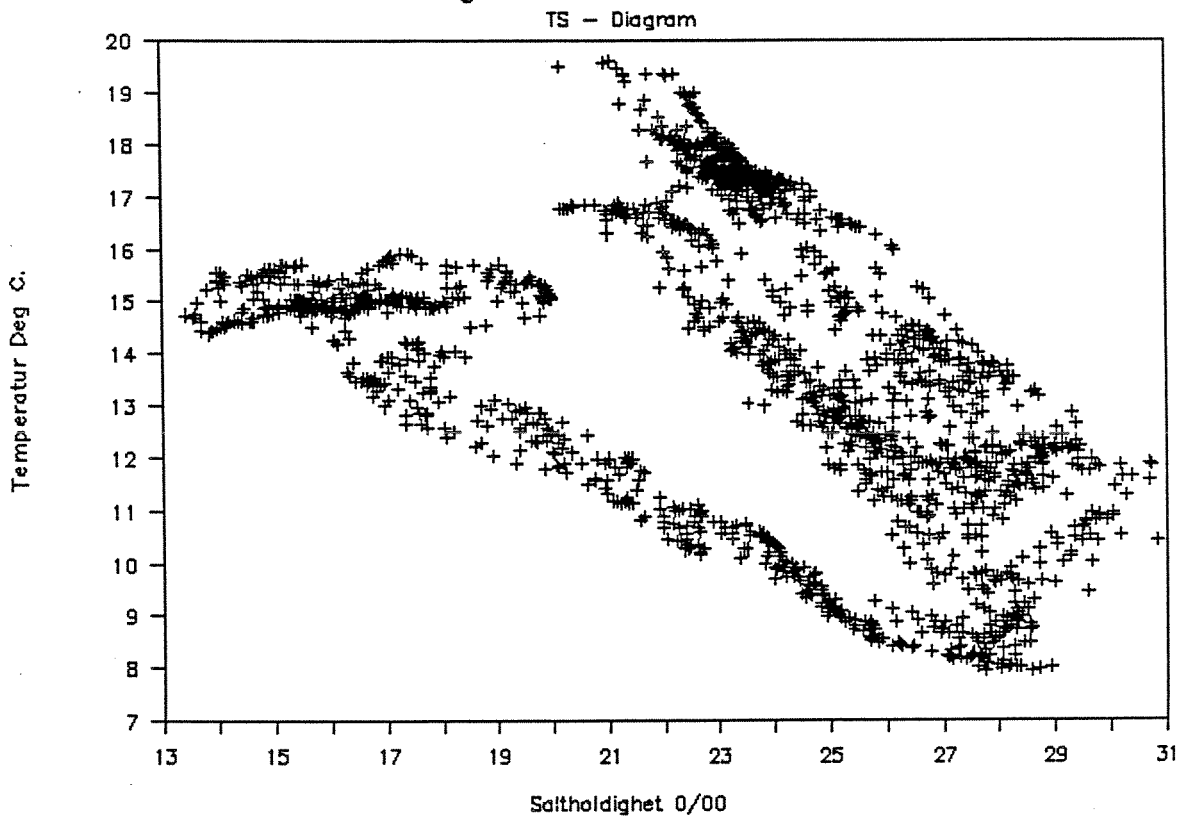
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Missingene 5 m. Tetthet



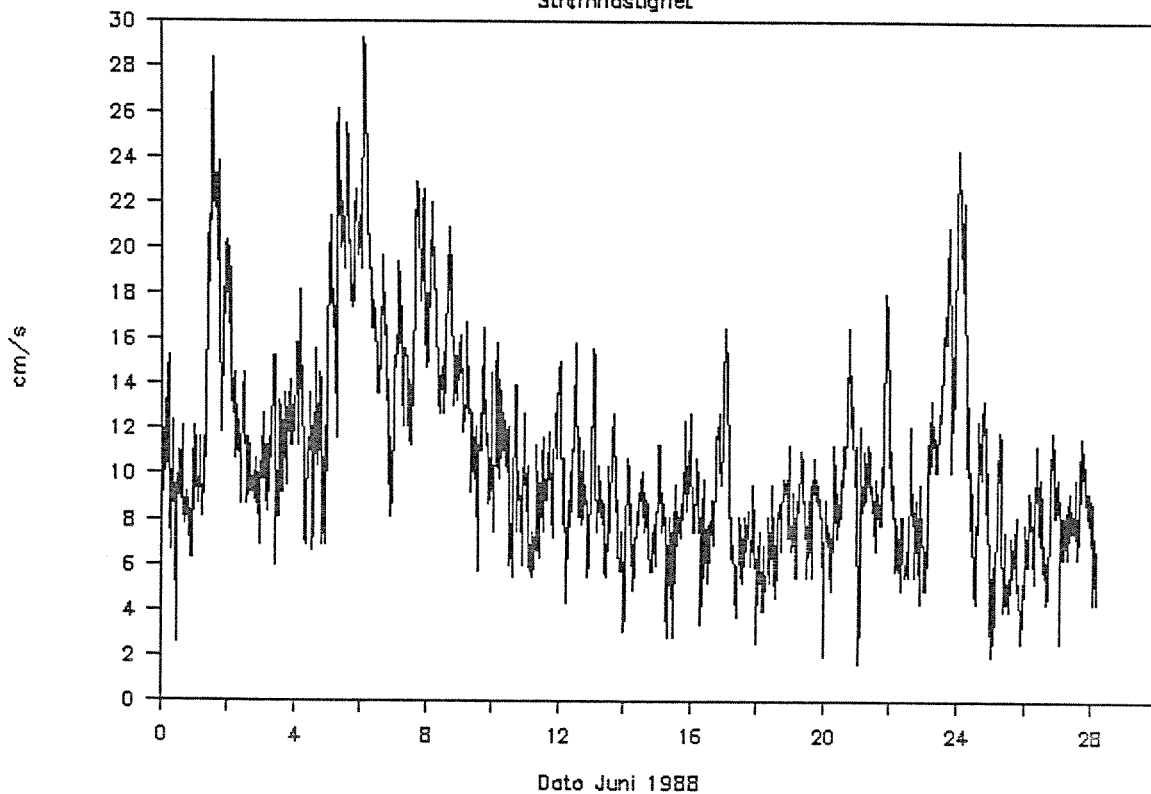
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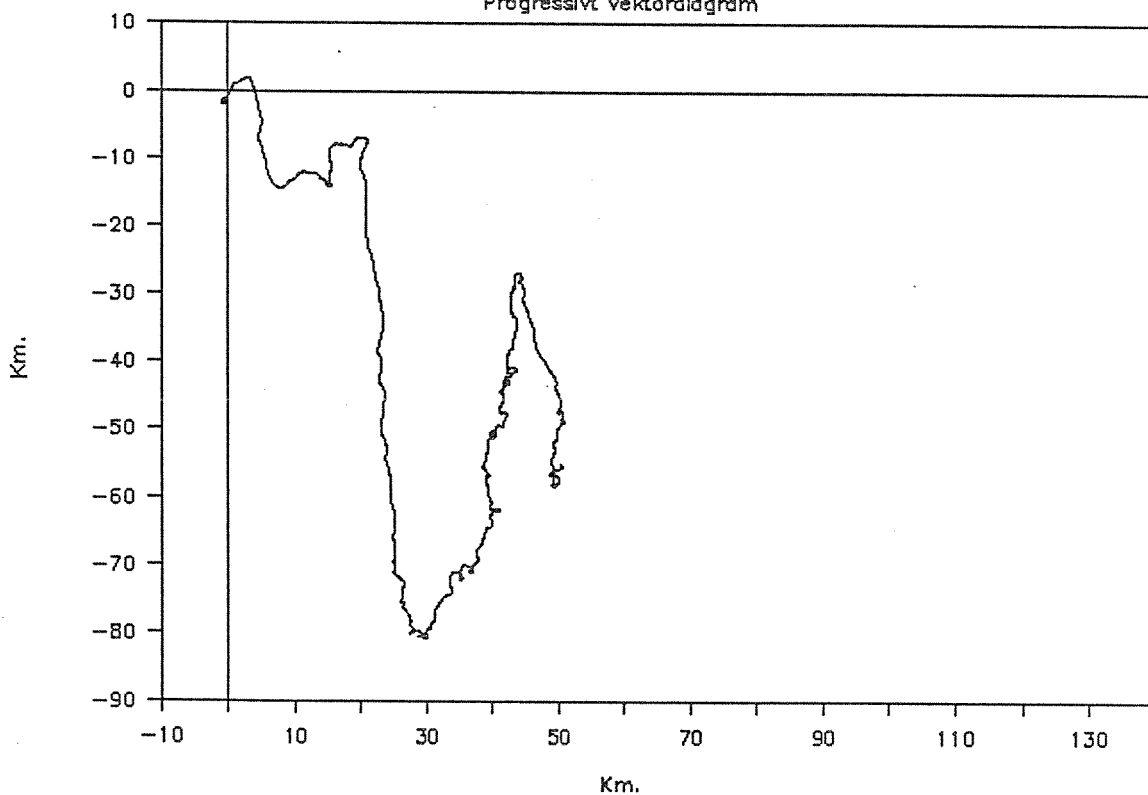
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Strømhastighet



Missingene 5 m. Juni 1988

Progressivt Vektordiagram

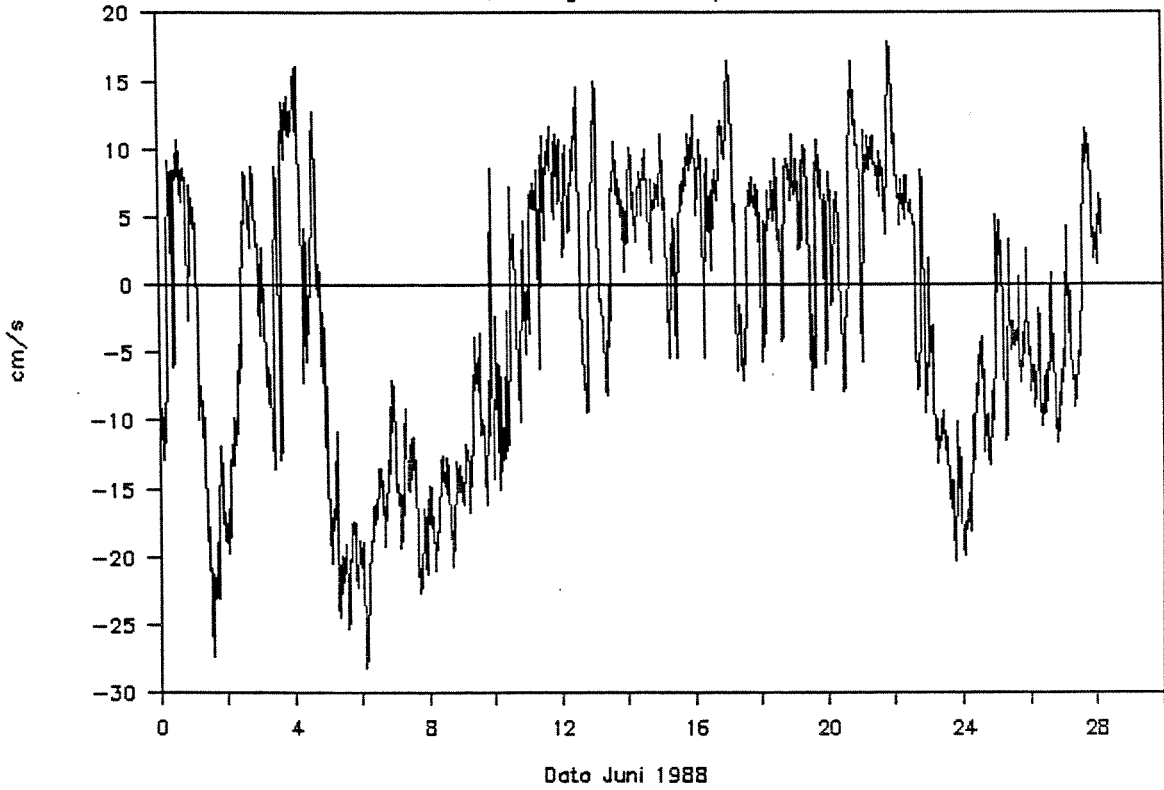


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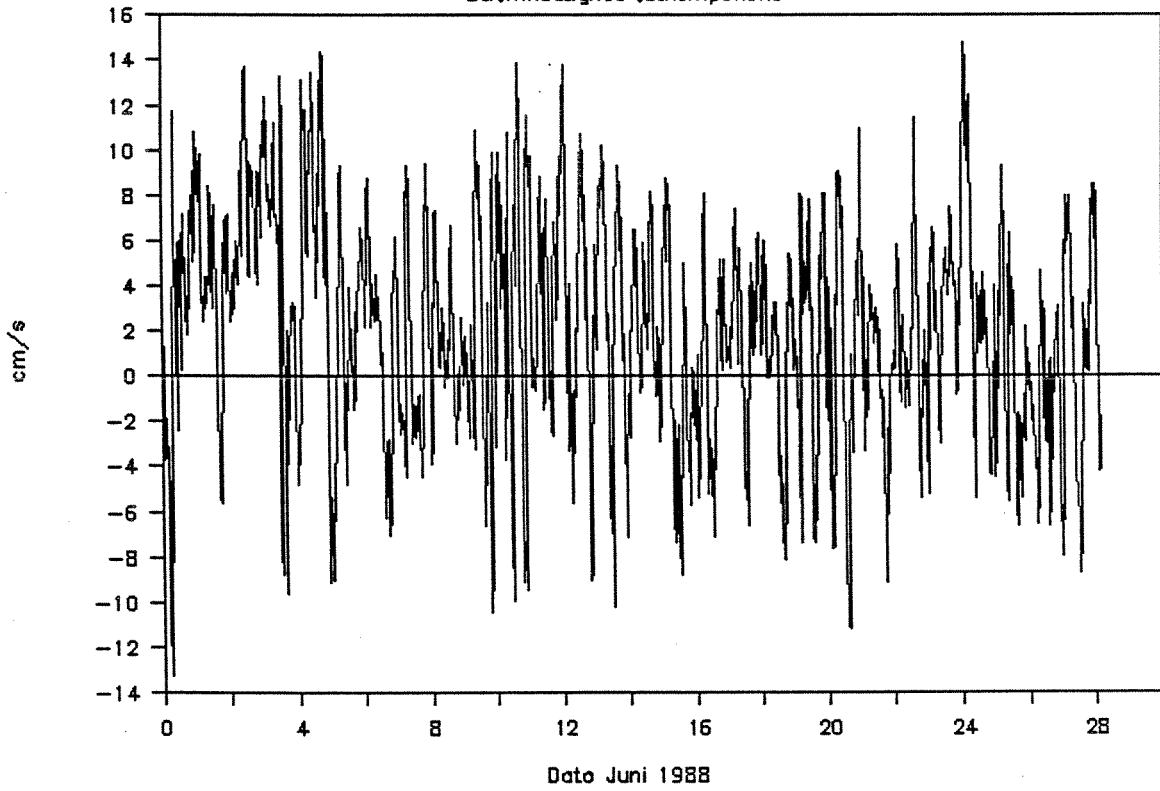
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Strømhastighet nordkomponent



Missingene 5 m.

Strømhastighet østkomponent

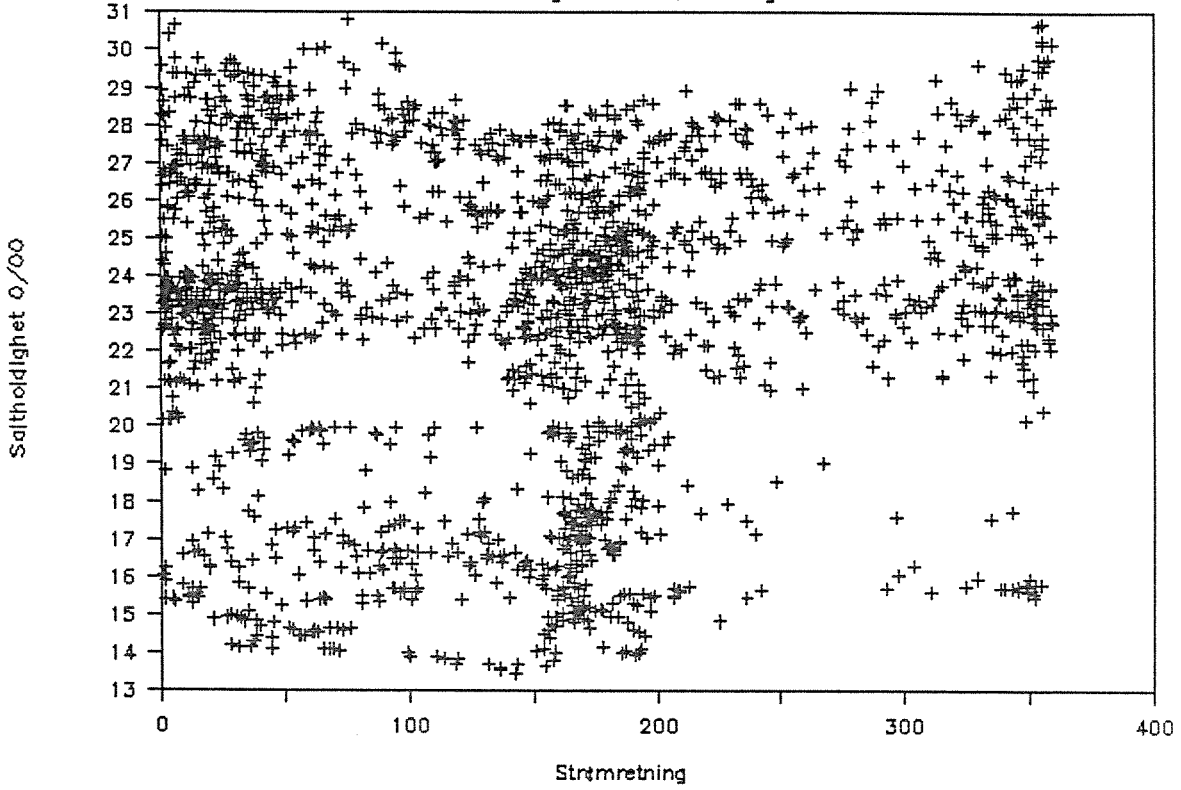


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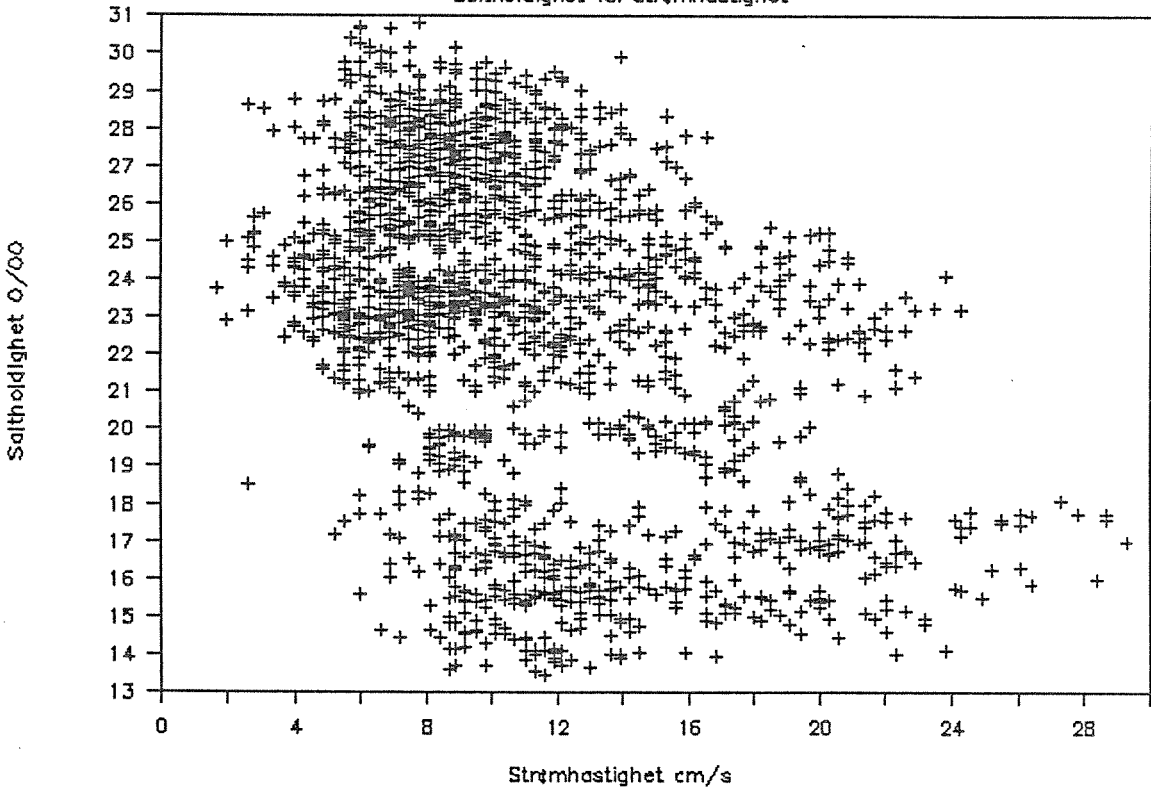
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Saltholdighet vs. strømretning



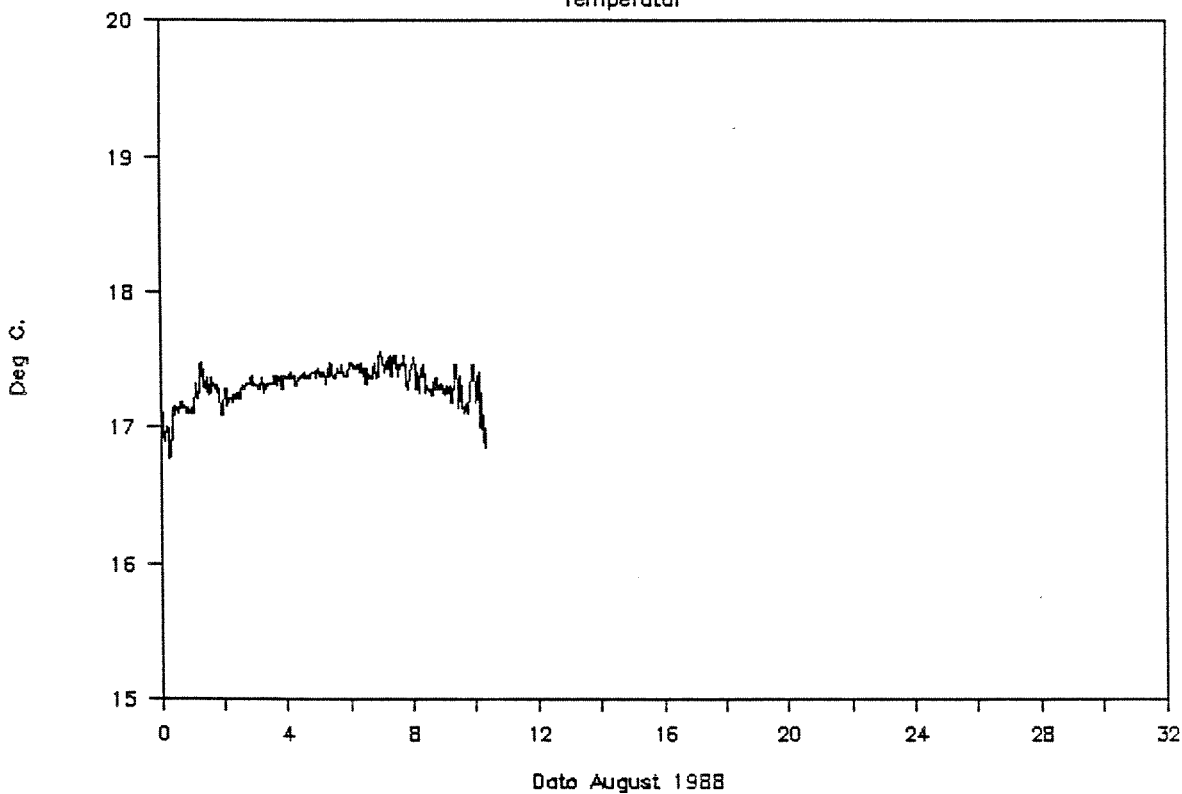
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Saltholdighet vs. strømhastighet



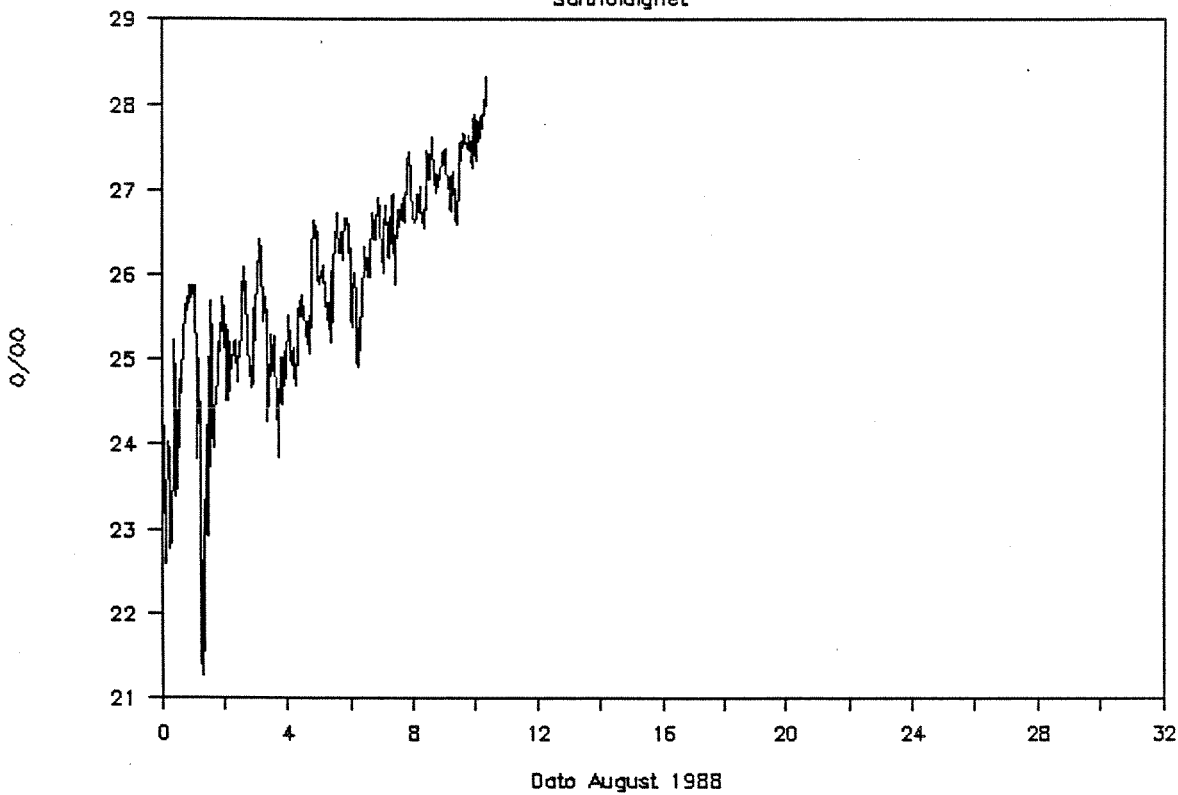
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Temperatur



Missingene 5m.

Saltholdighet

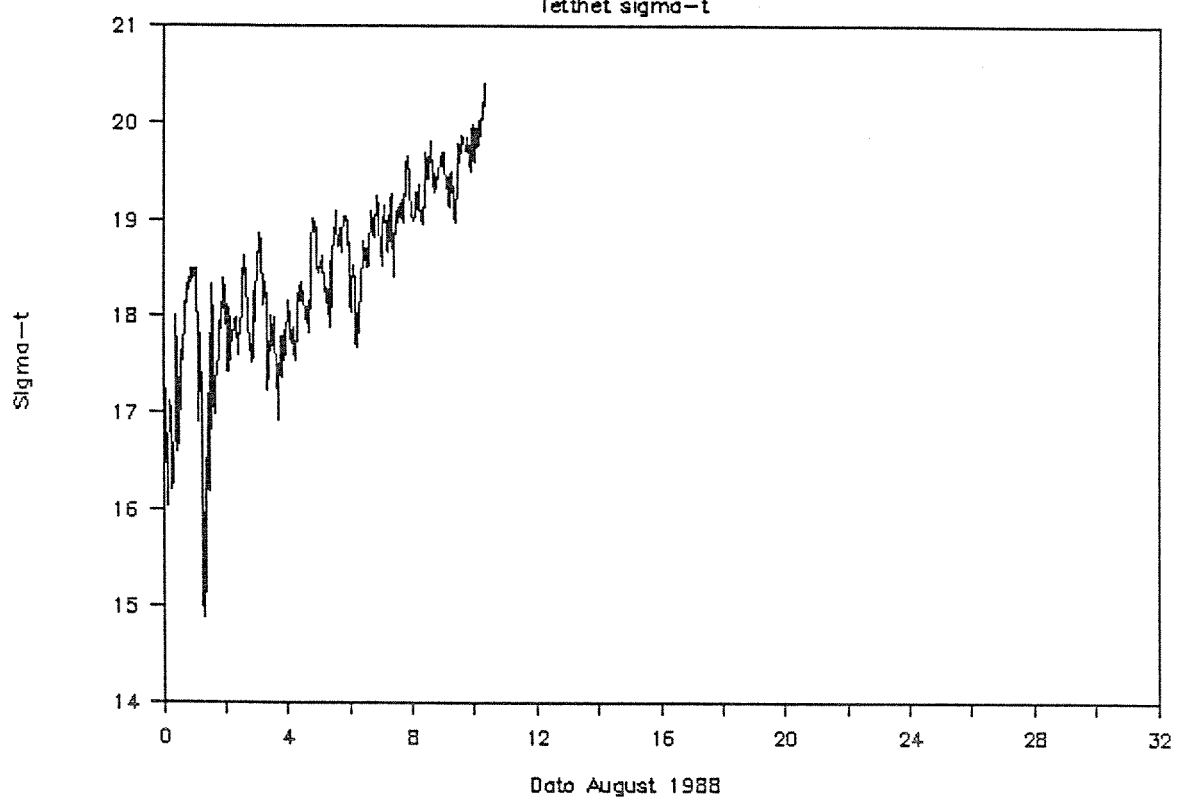


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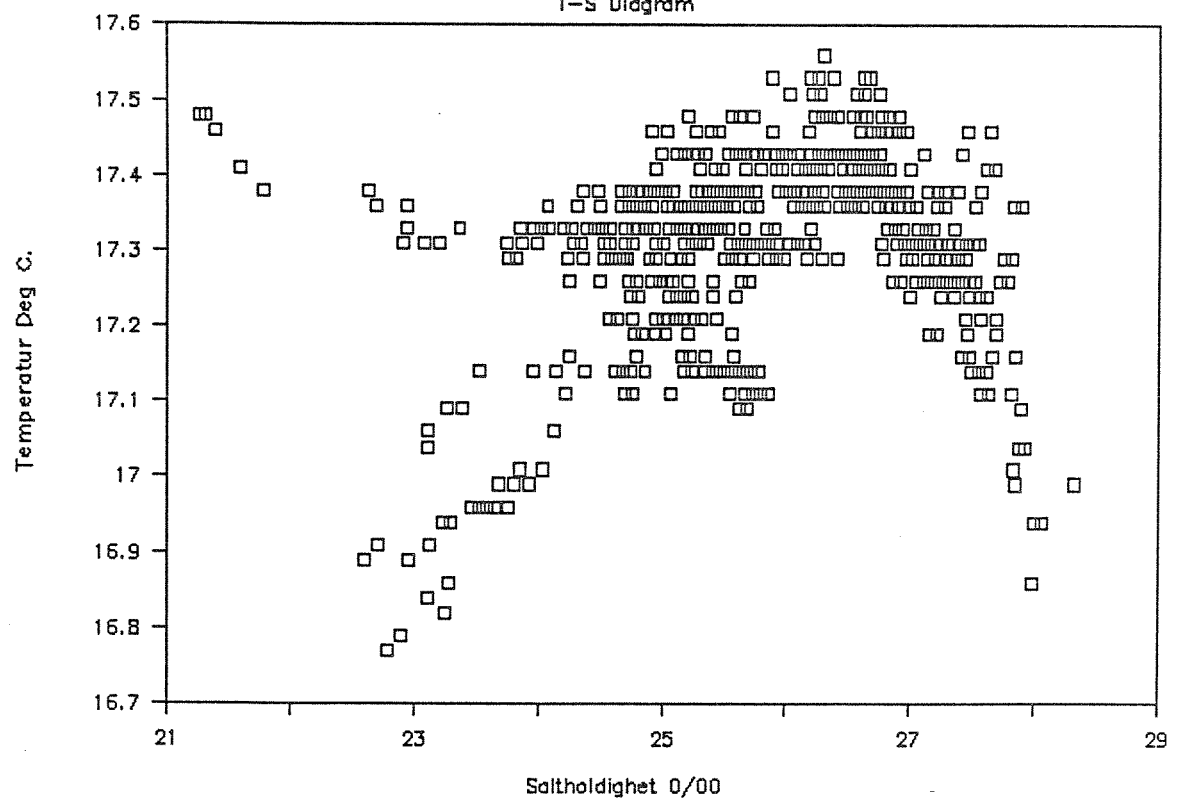
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Tetthet sigma-t



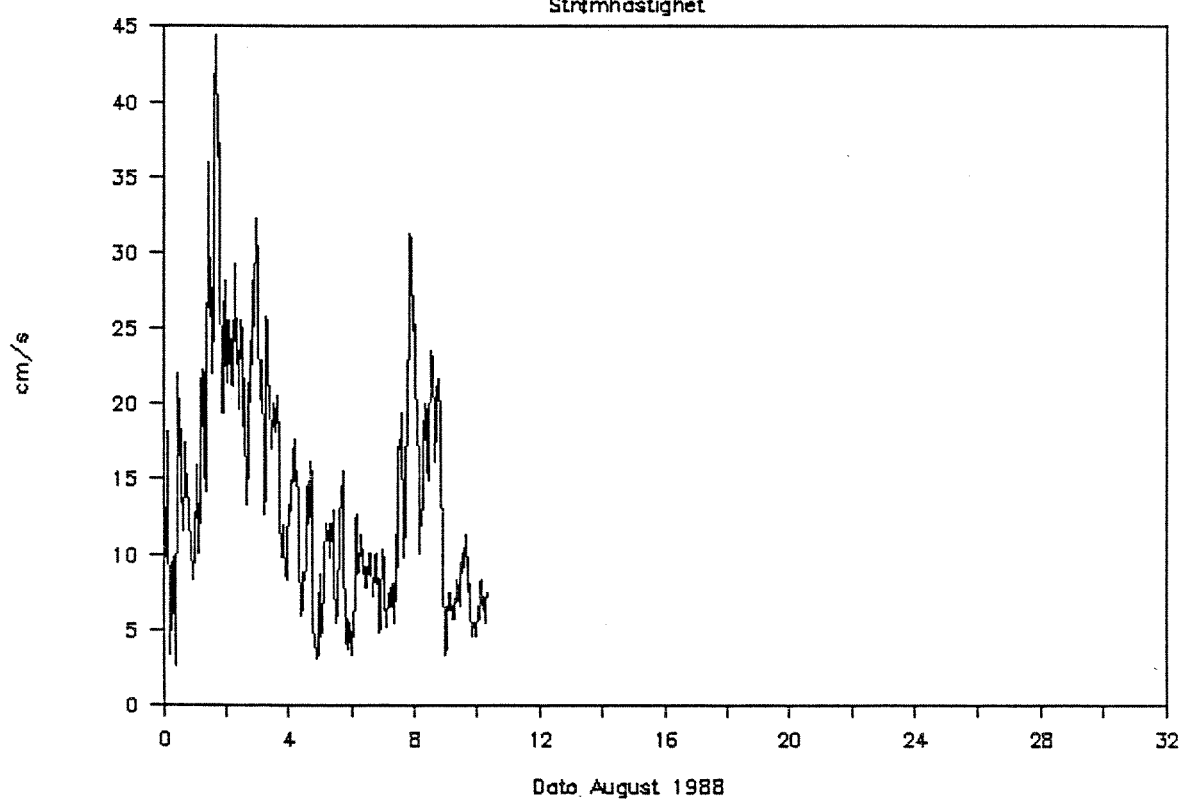
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T-S Diagram



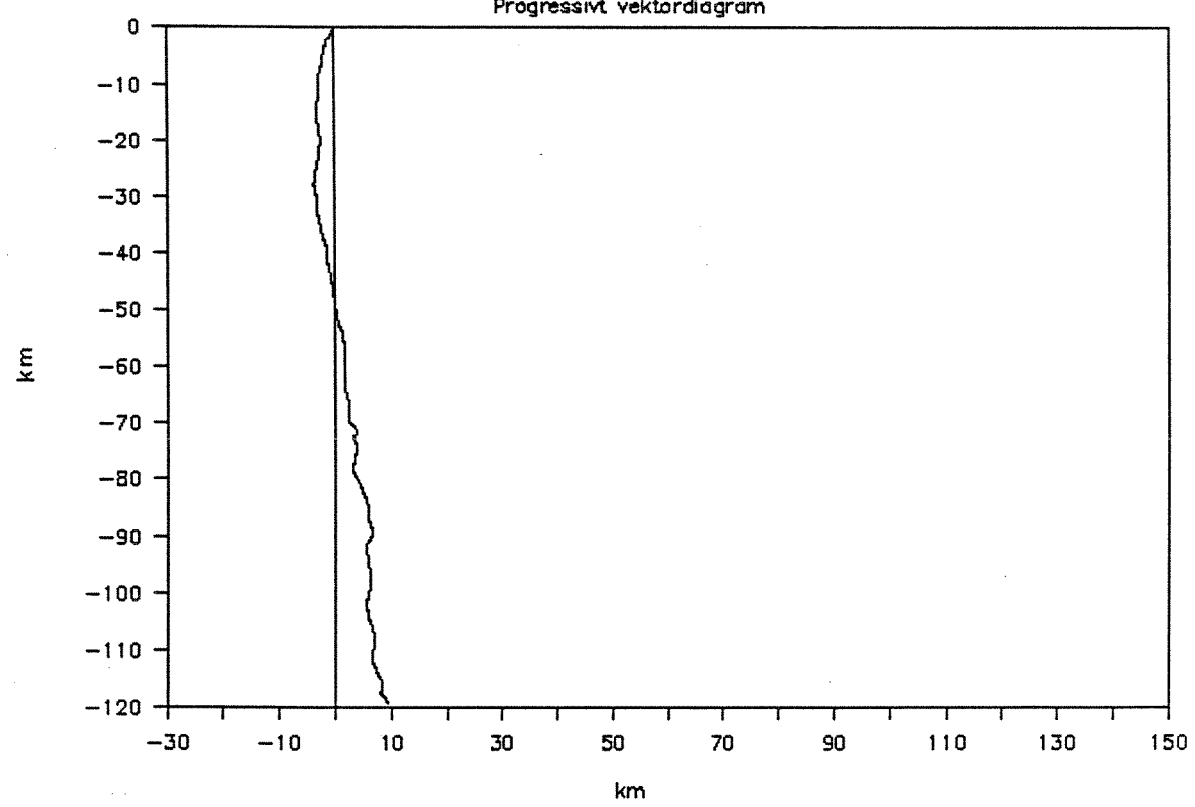
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Strømhastighet



Missingene 5m. August 1988

Progressivt vektordiagram

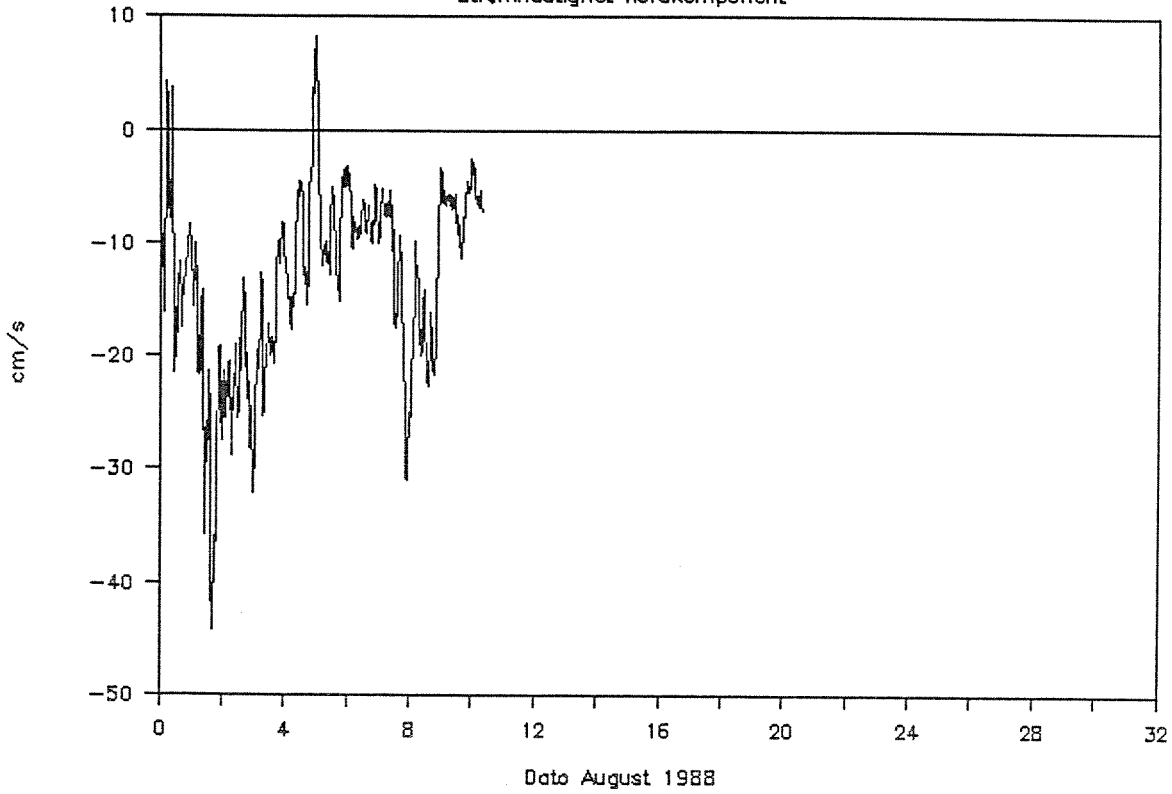


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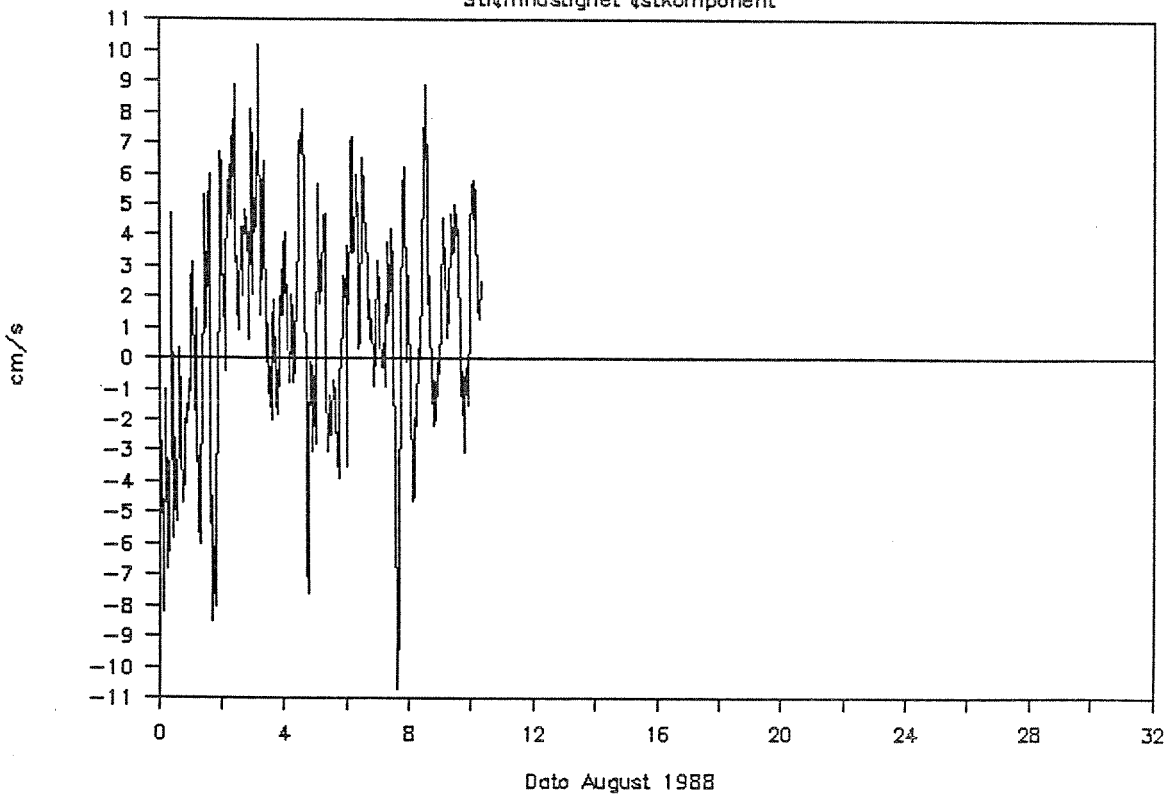
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Strømhastighet nordkomponent



Missingene 5m.

Strømhastighet østkomponent

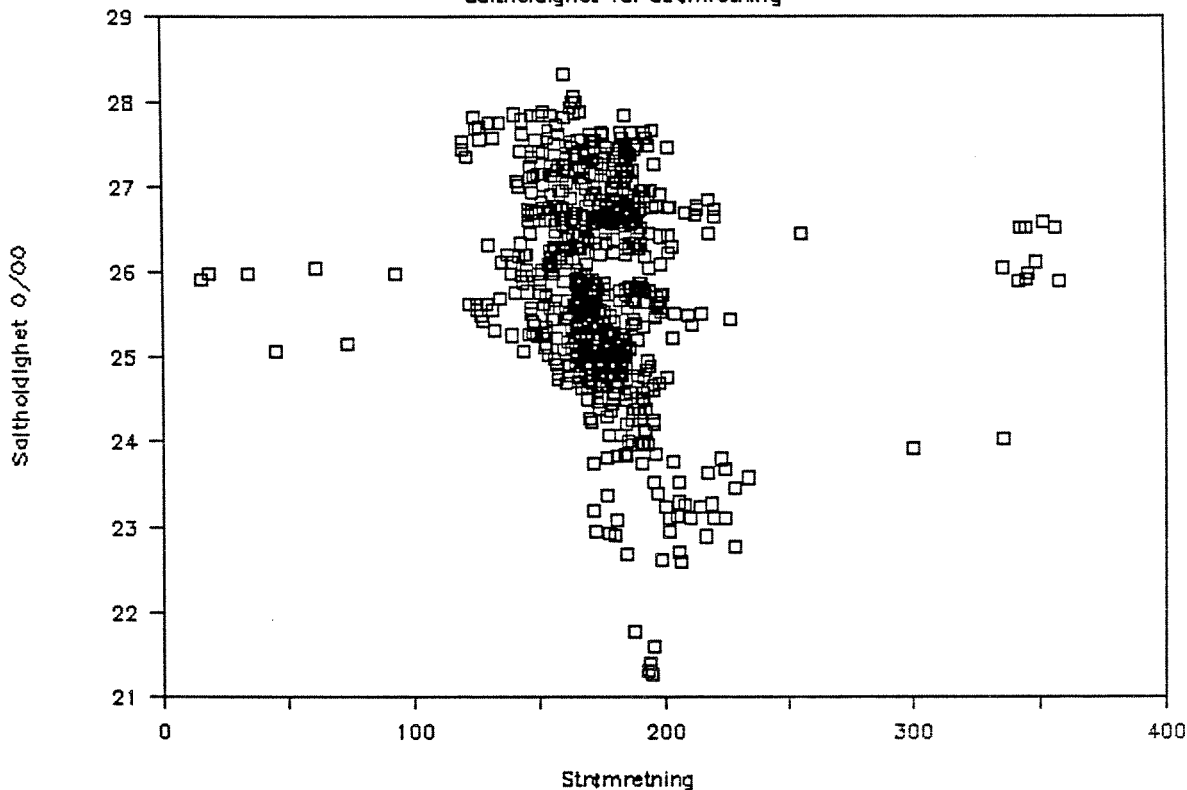


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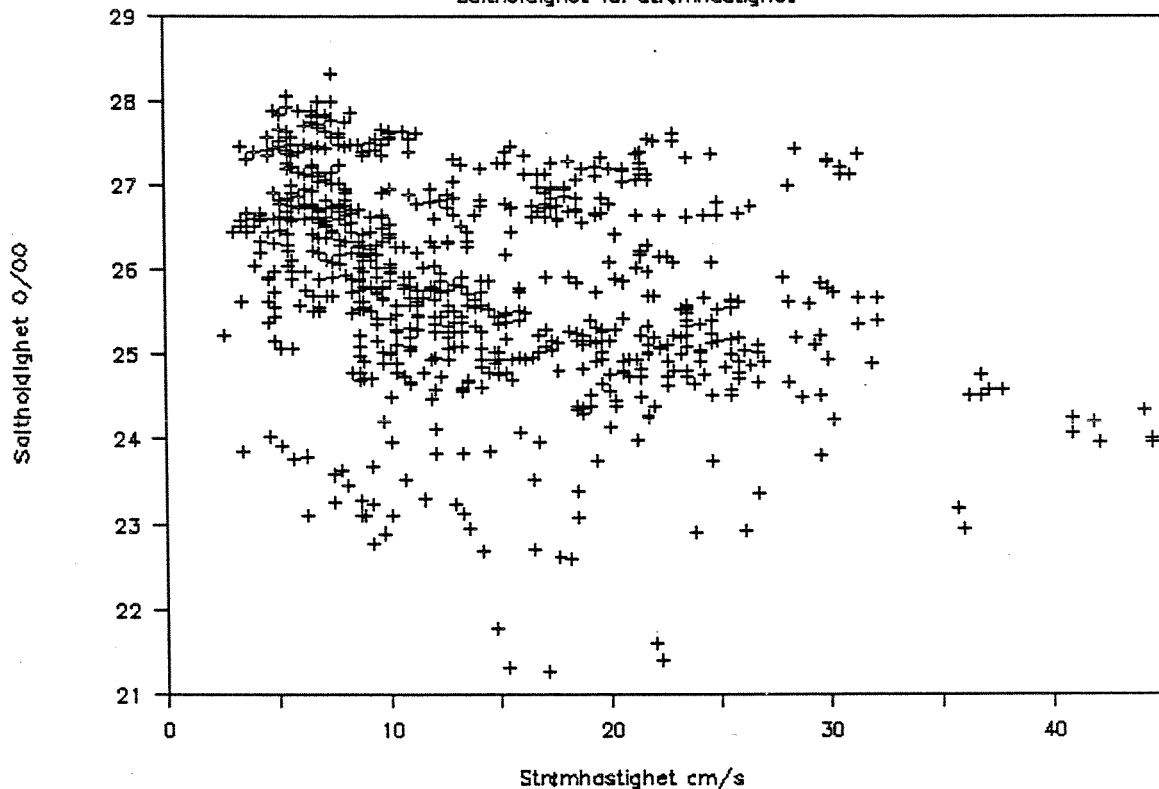
Missingene 5m. August 1988

Saltholdighet vs. strømretning



Missingene 5m. August 1988

Saltholdighet vs. strømhastighet

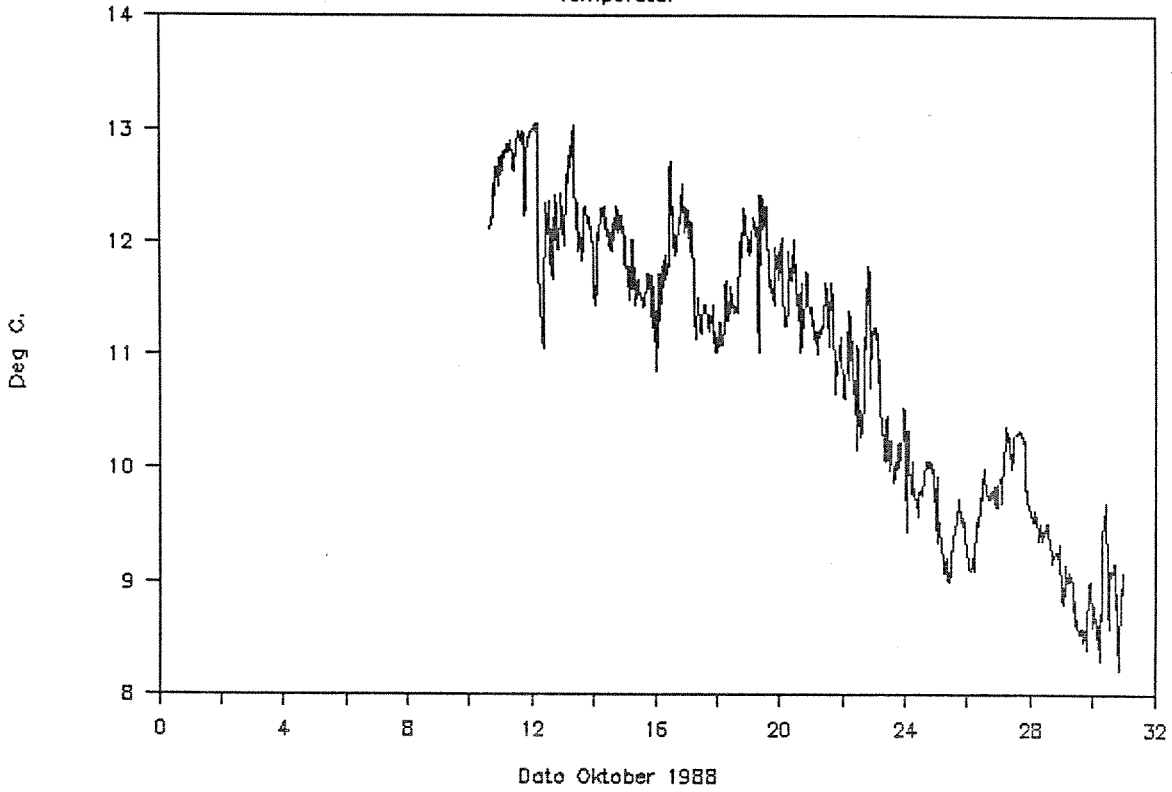


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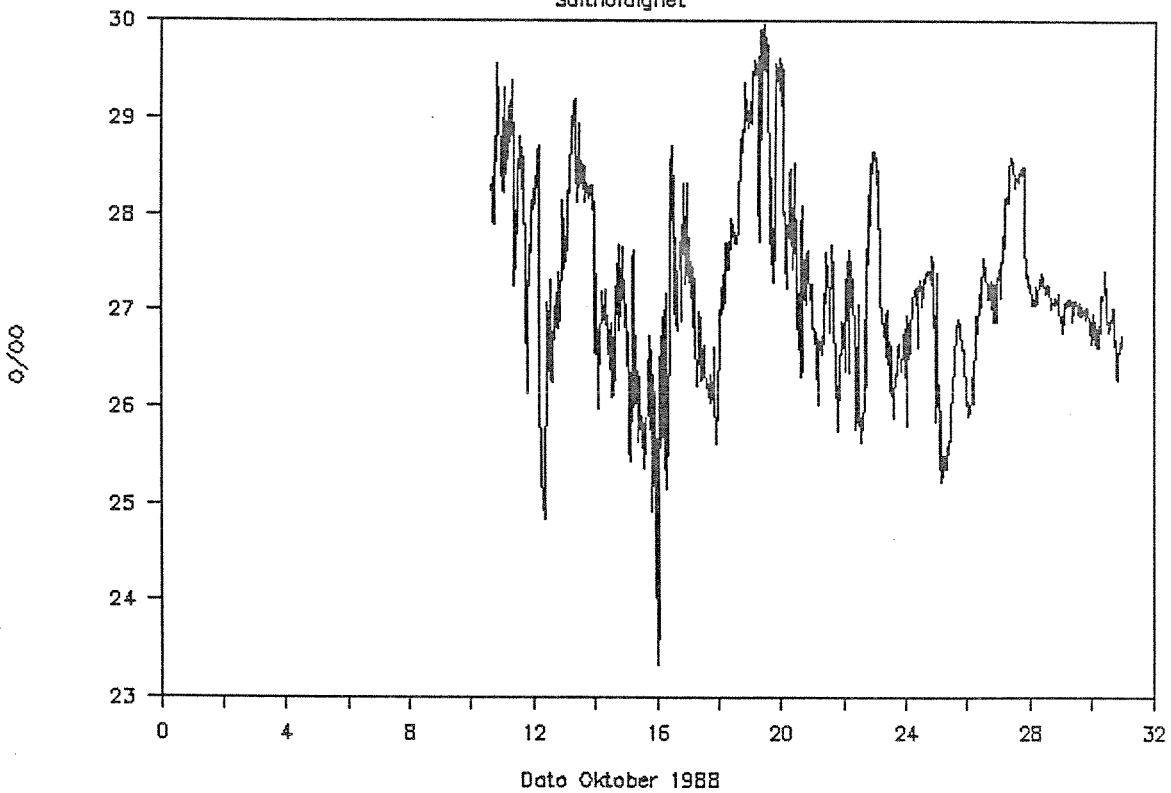
Missingen 5 m.

Temperatur



Missingen 5 m.

Saltholdighet

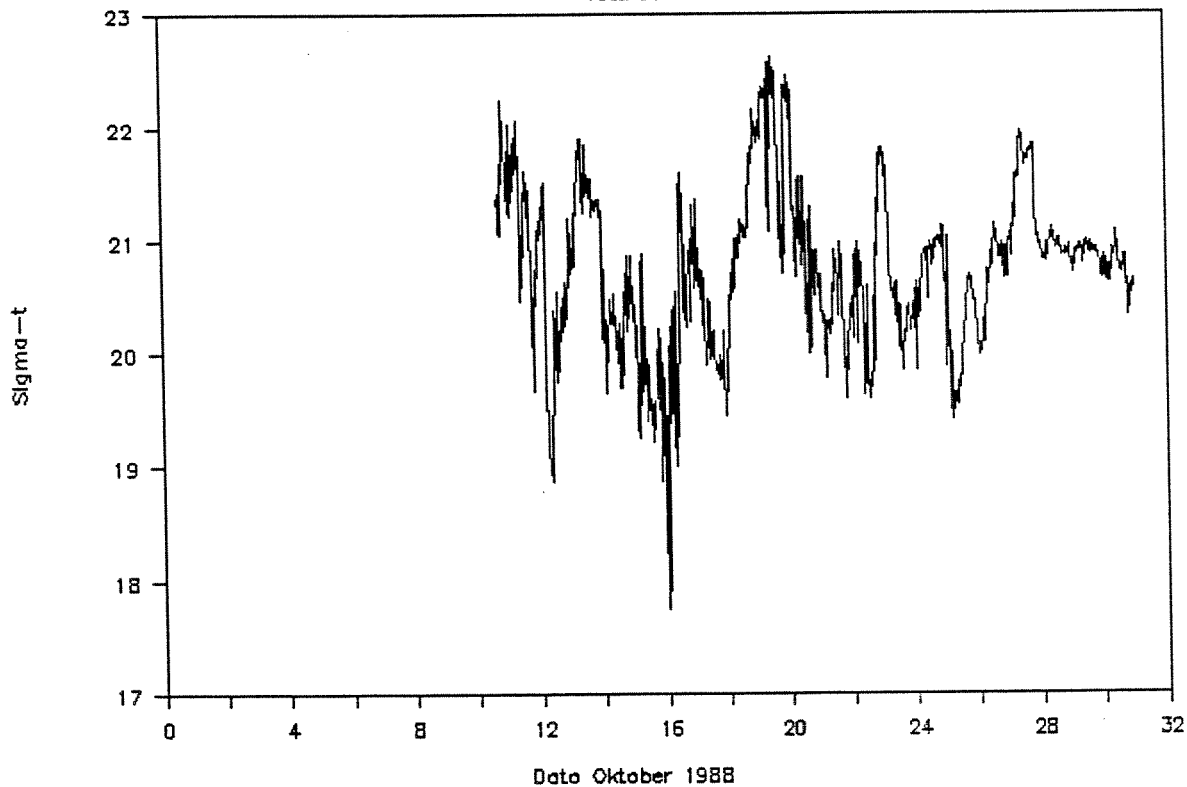


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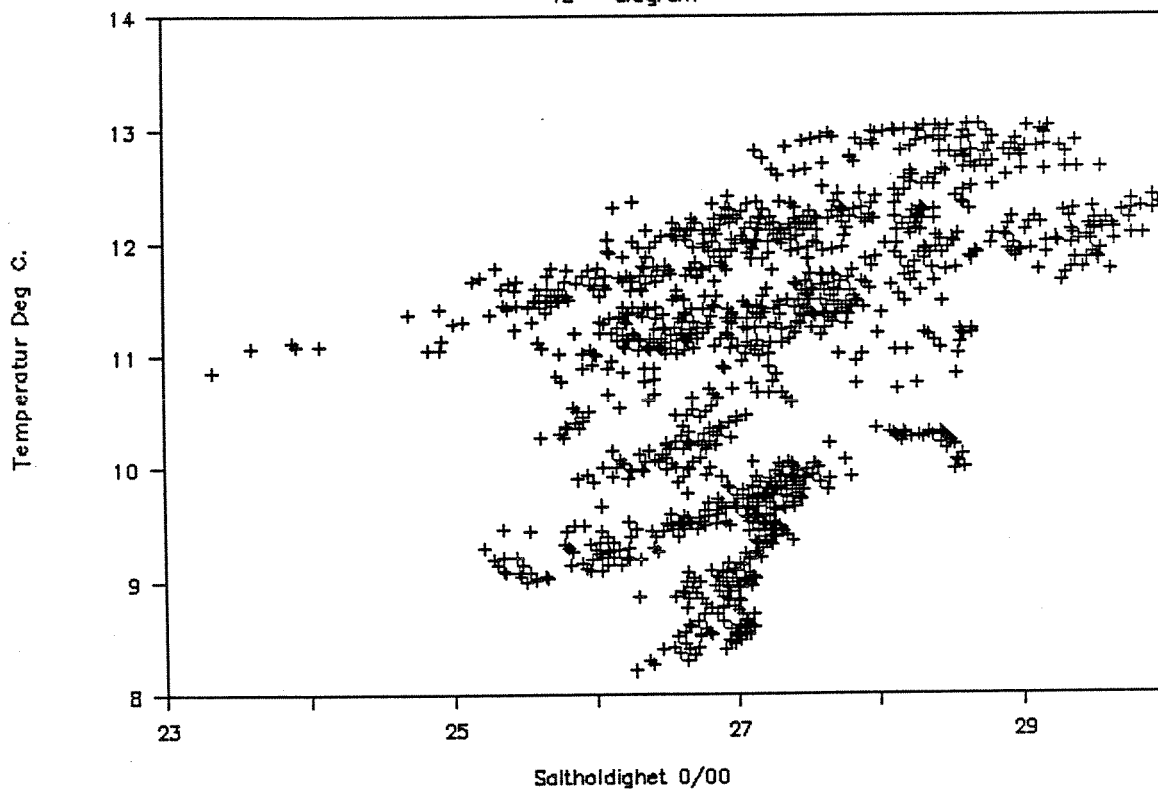
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Tetthet



Missingen 5 m. Oktober 1988

TS - diagram

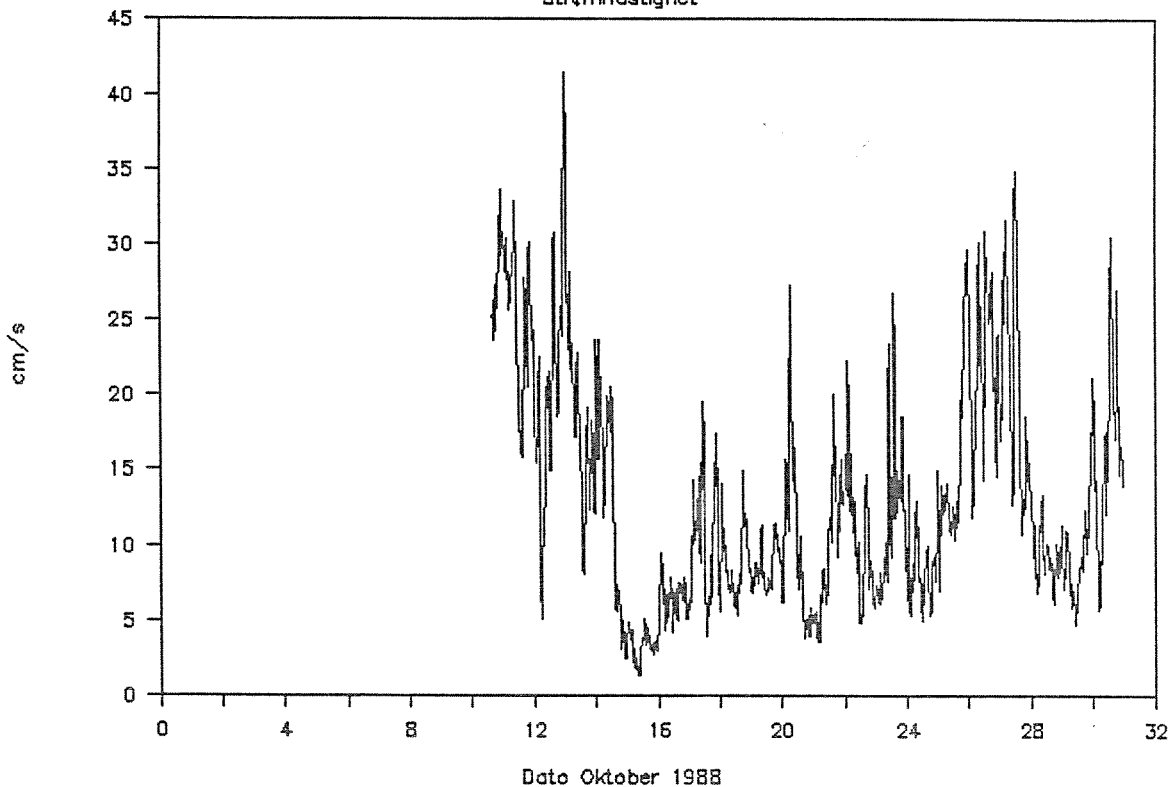


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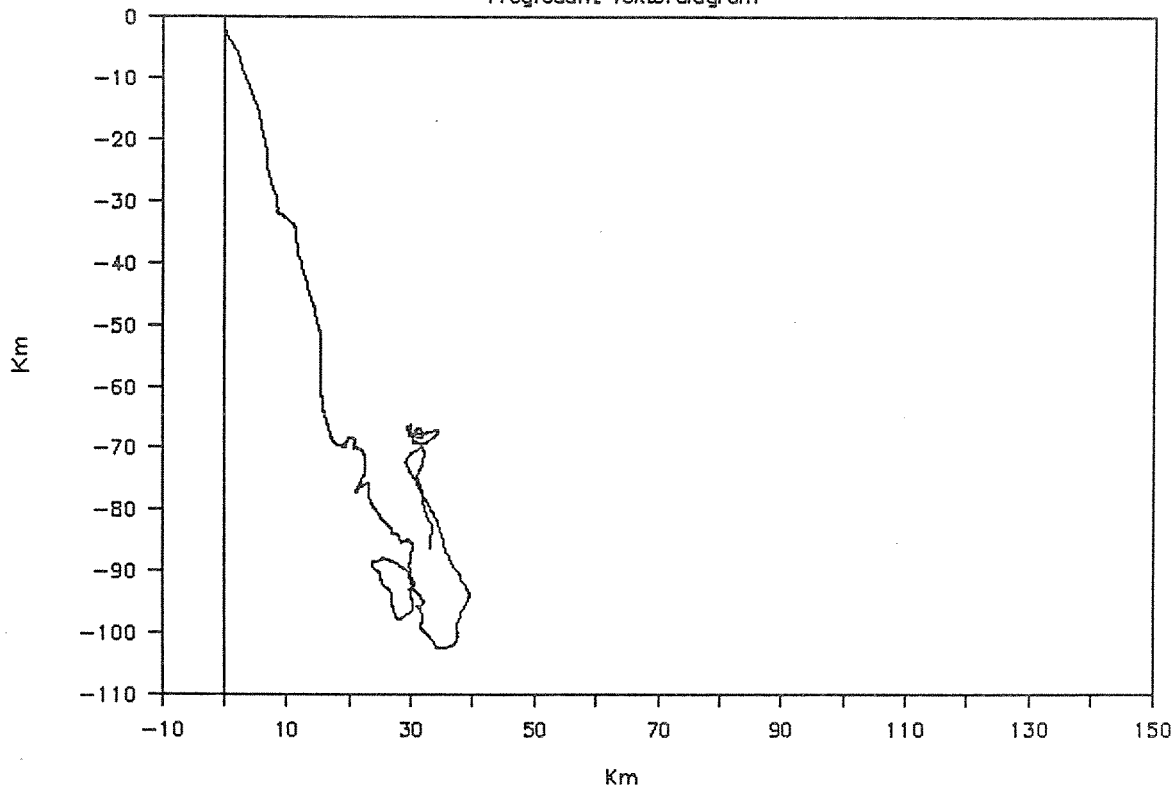
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Strømhastighet



Missingen 5 m. Oktober 1988

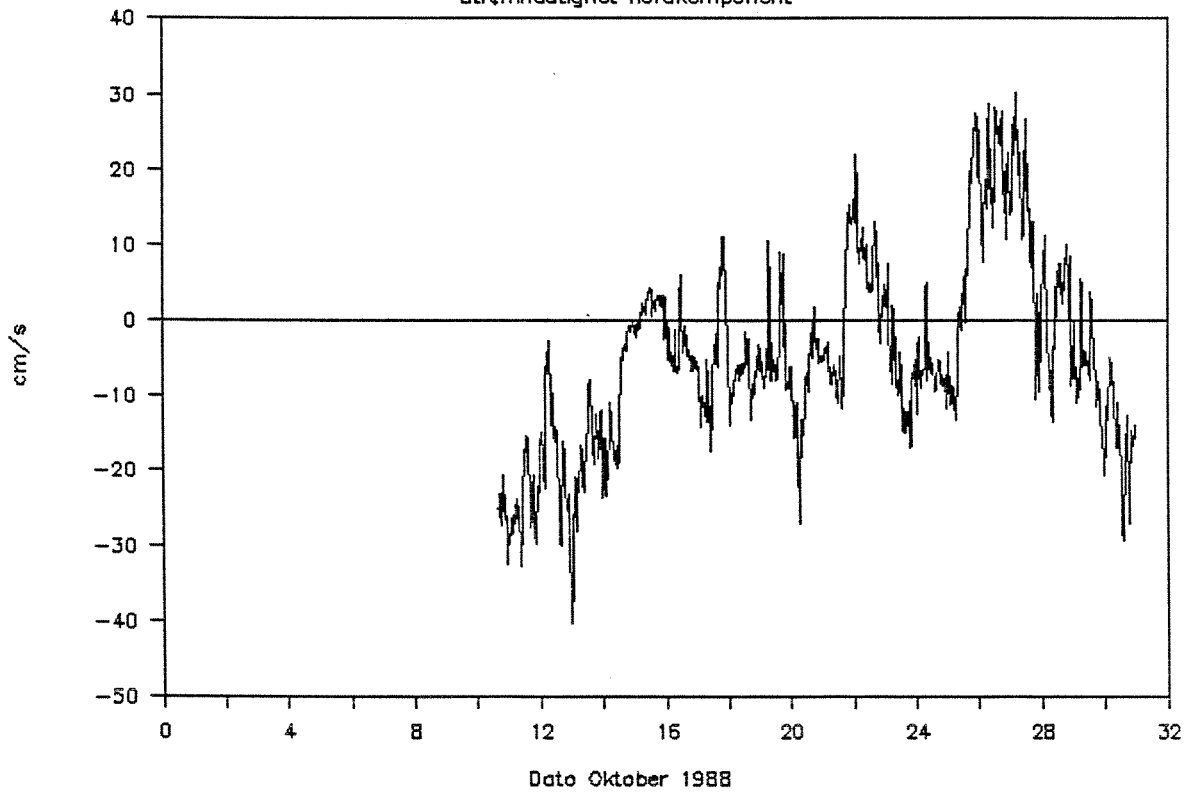
Progressivt vektordiagram



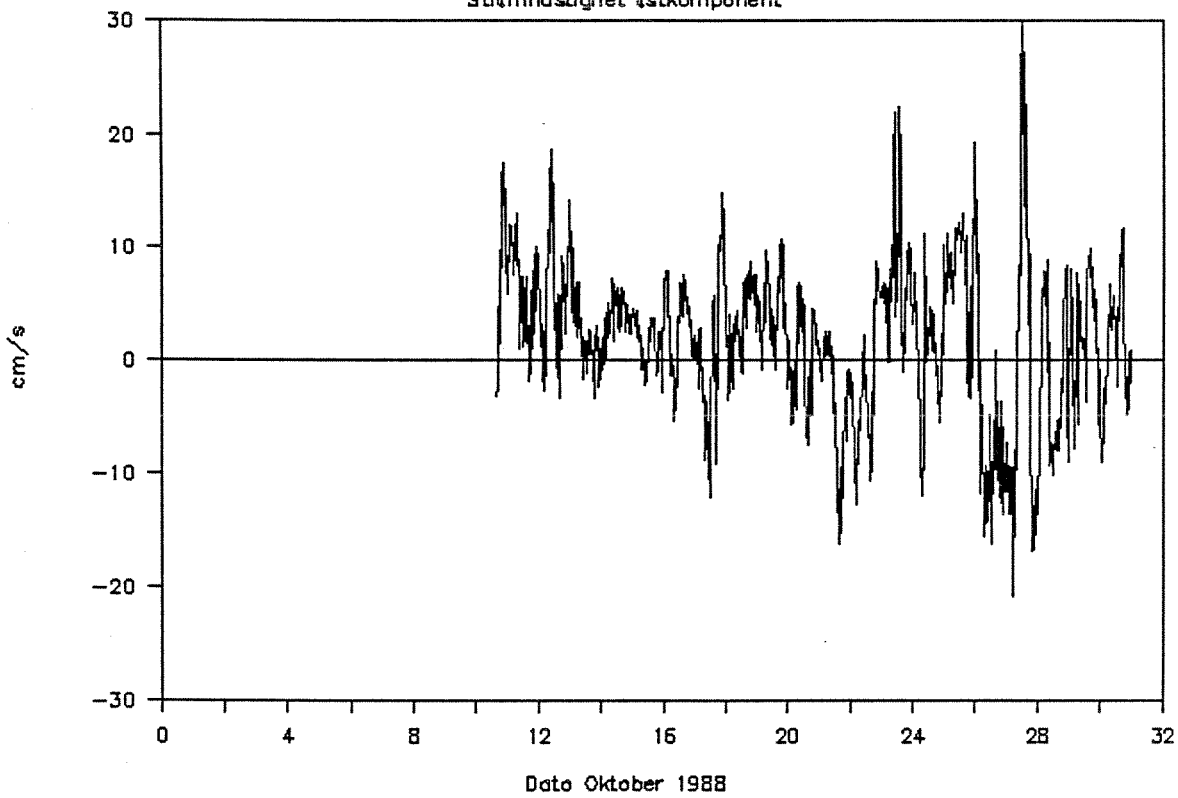
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Missingen 5 m. Strømhastighet nordkomponent



Missingen 5 m. Strømhastighet østkomponent

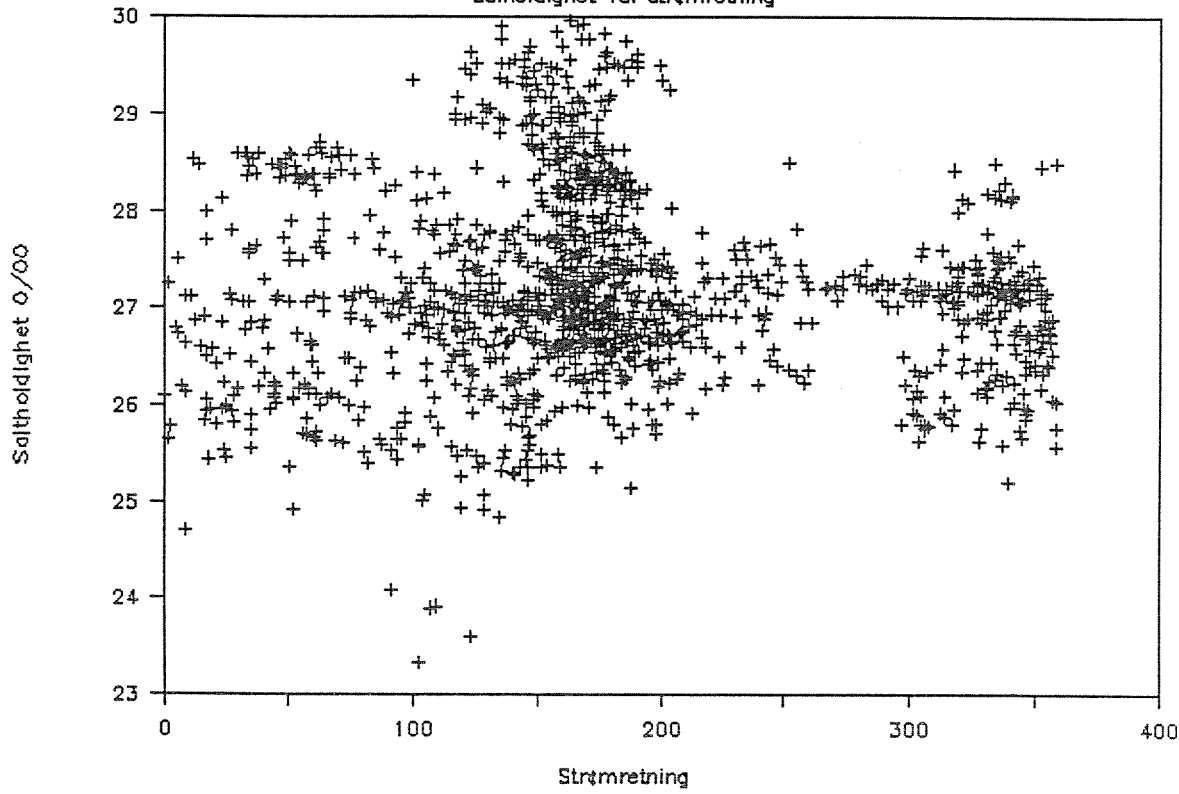


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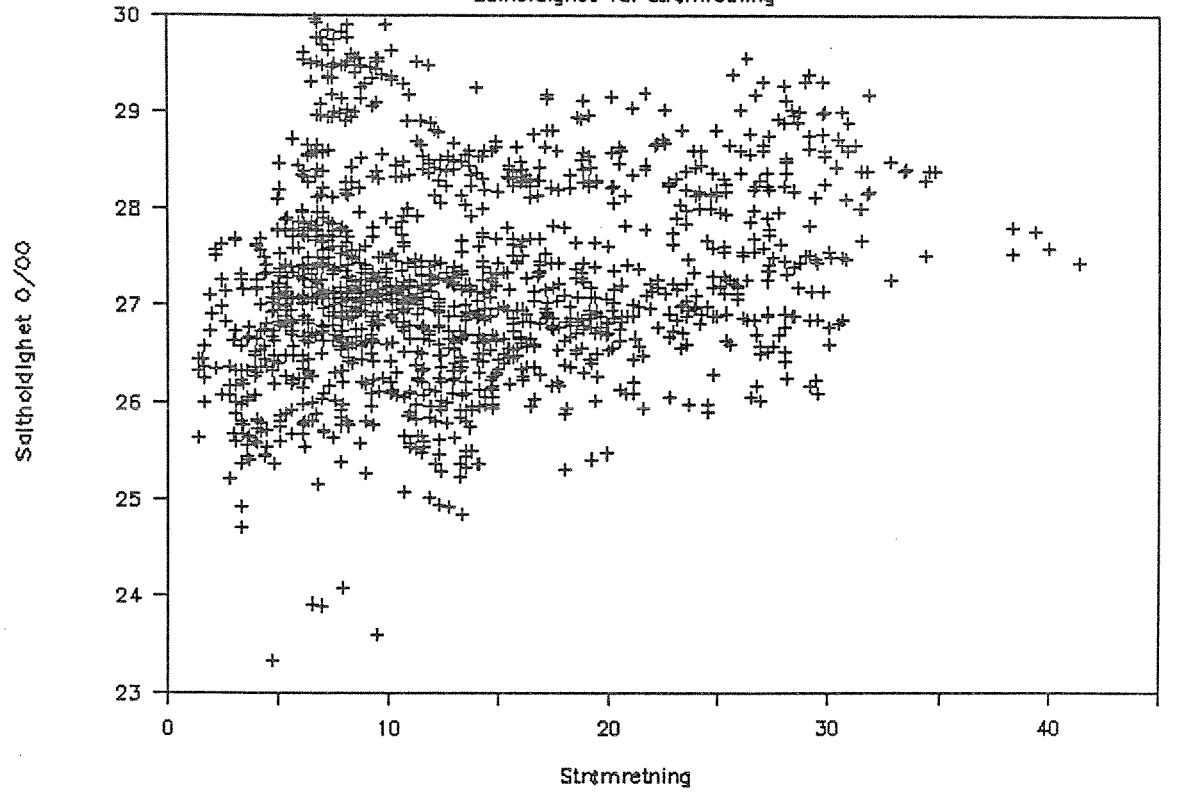
Missingen 5 m. Oktober 1988

Saltholdighet vs. strømretning



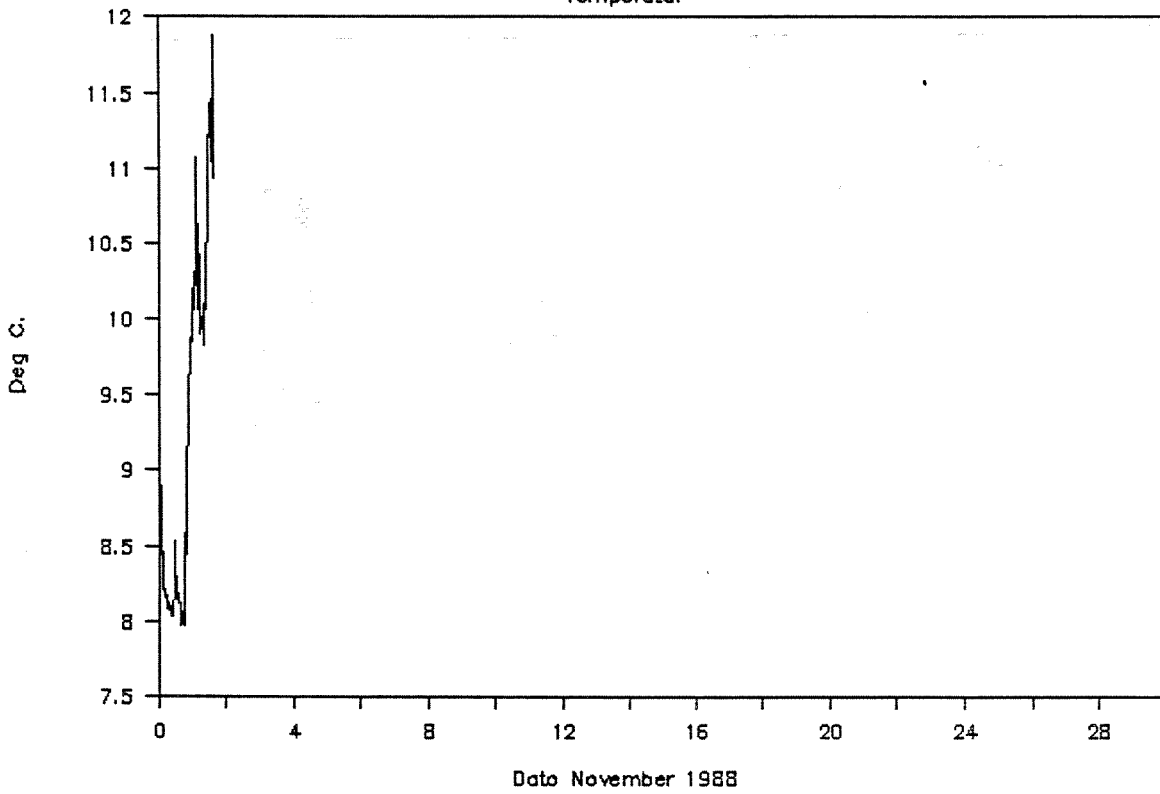
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Saltholdighet vs. strømretning

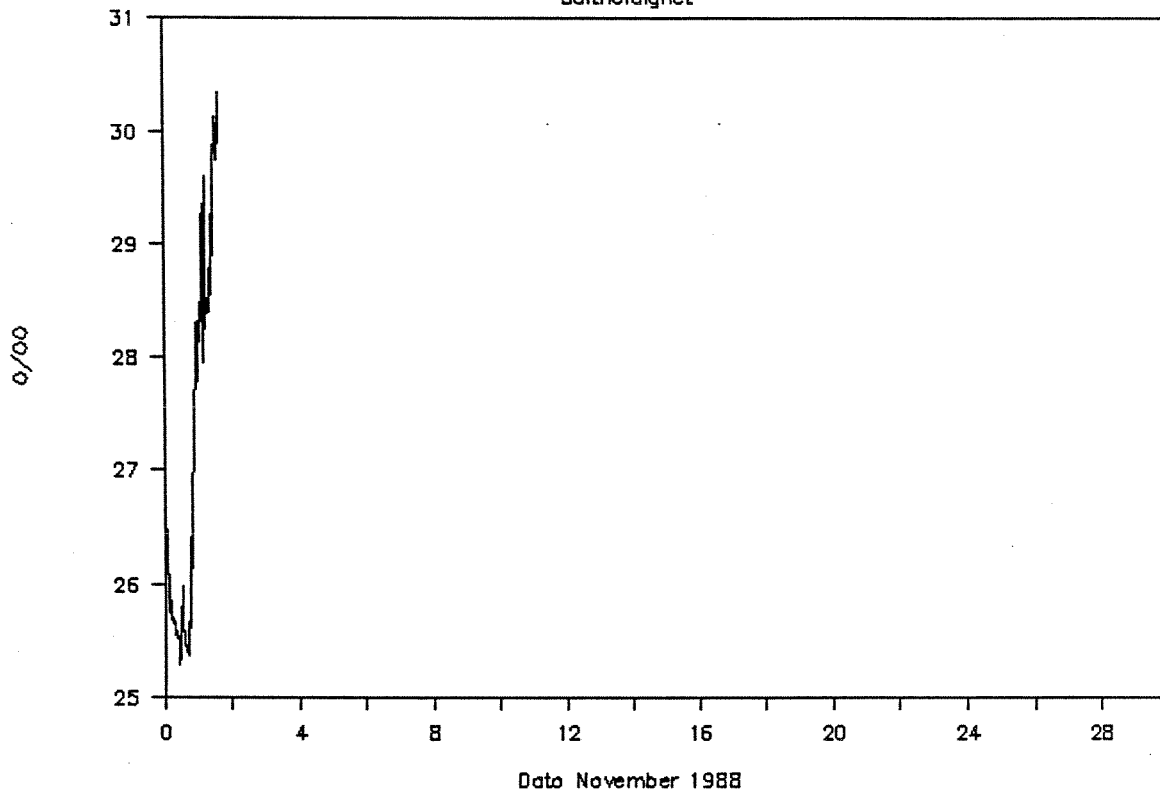


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Missingen 5 m. Temperatur



Missingen 5 m. Saltholdighet

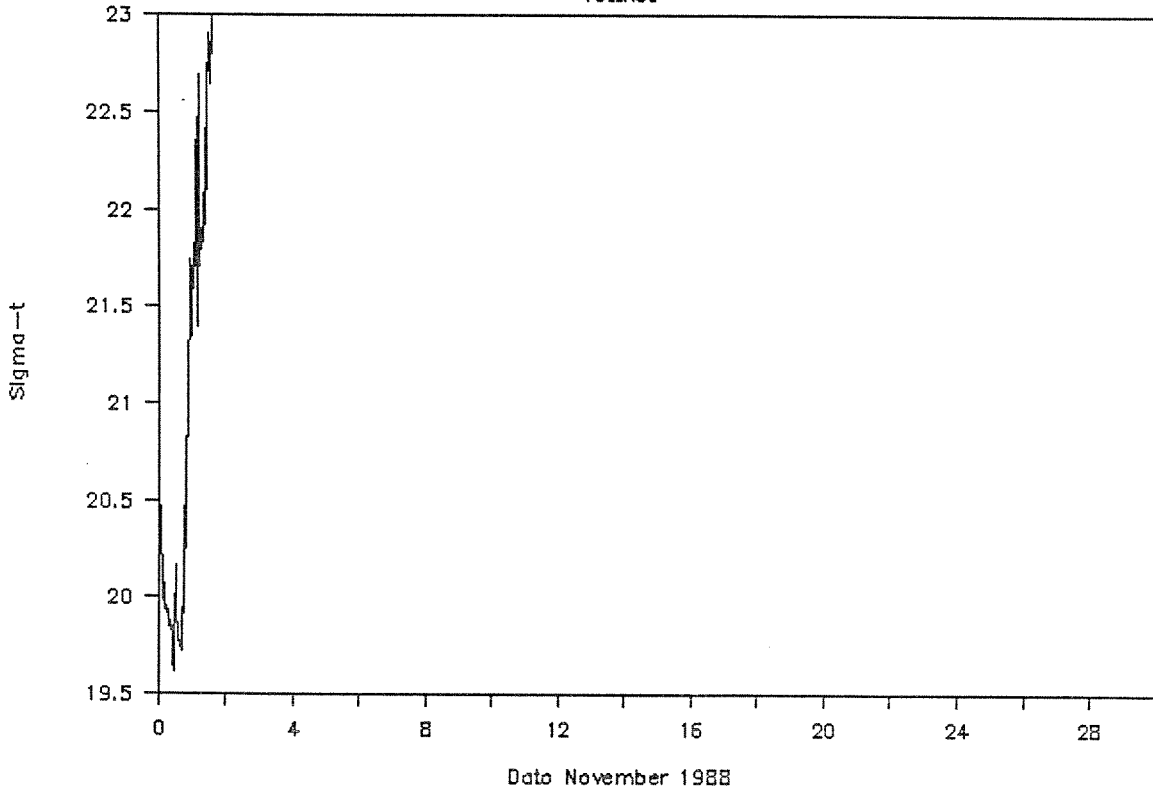


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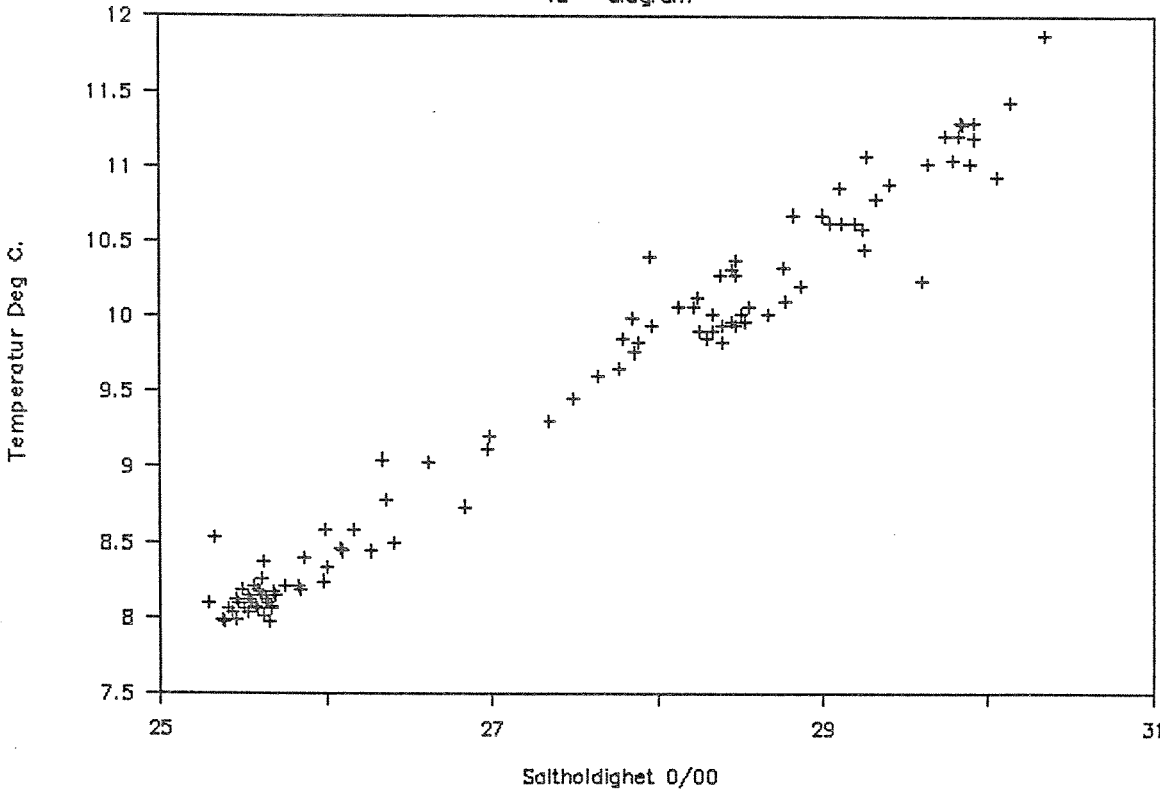
Missingen 5 m.

Tetthet



Missingen 5 m. November 1988

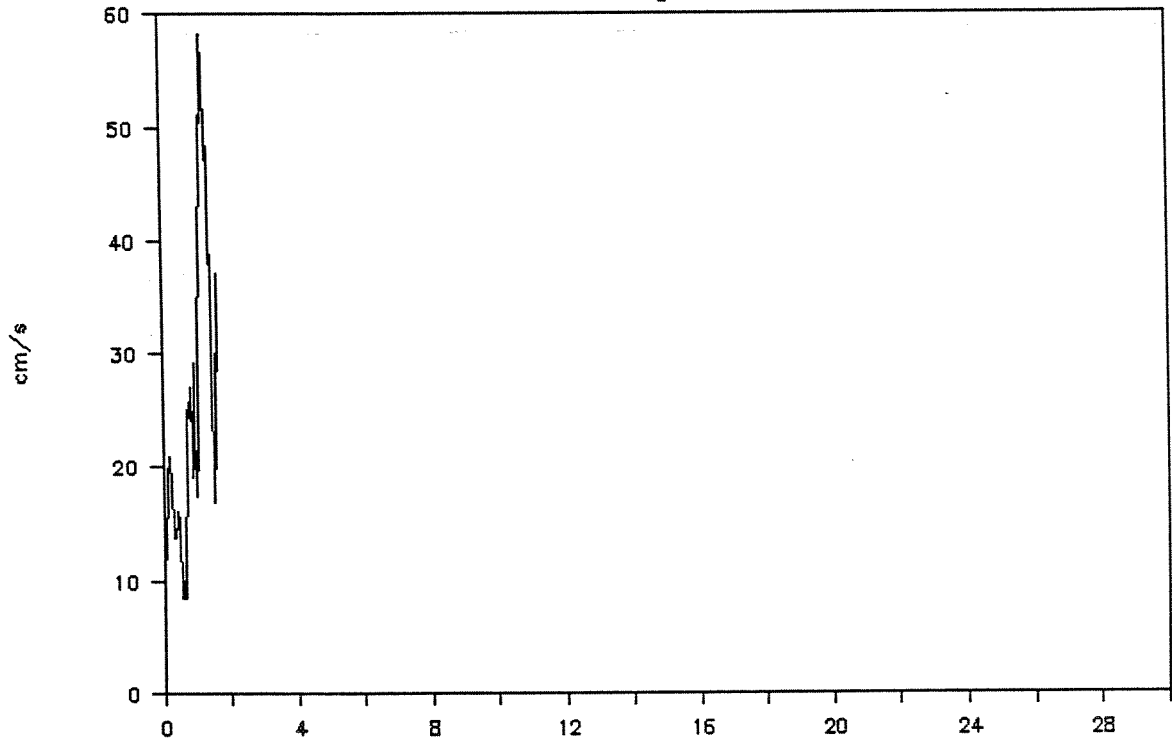
TS - diagram



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Missingen 5 m.

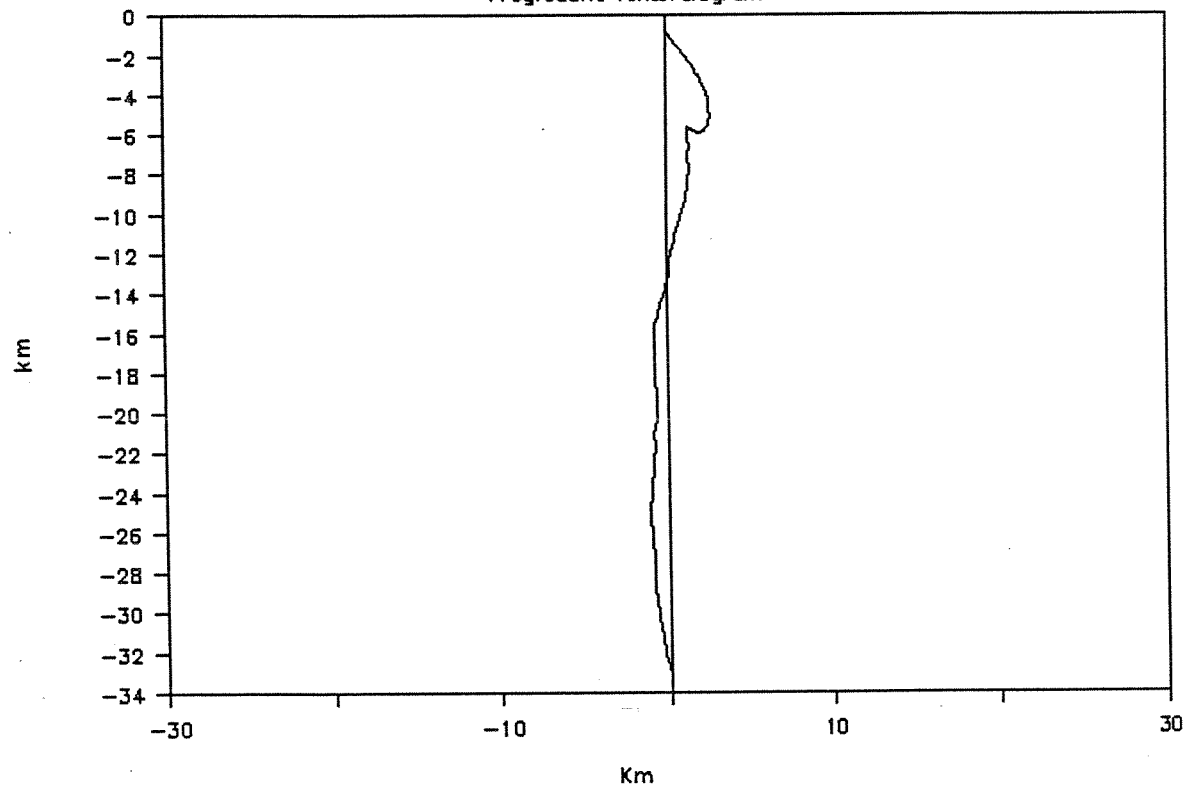
Strømhastighet



Dato November 1988

Missingen 5 m. November 1988

Progressivt vektordiagram

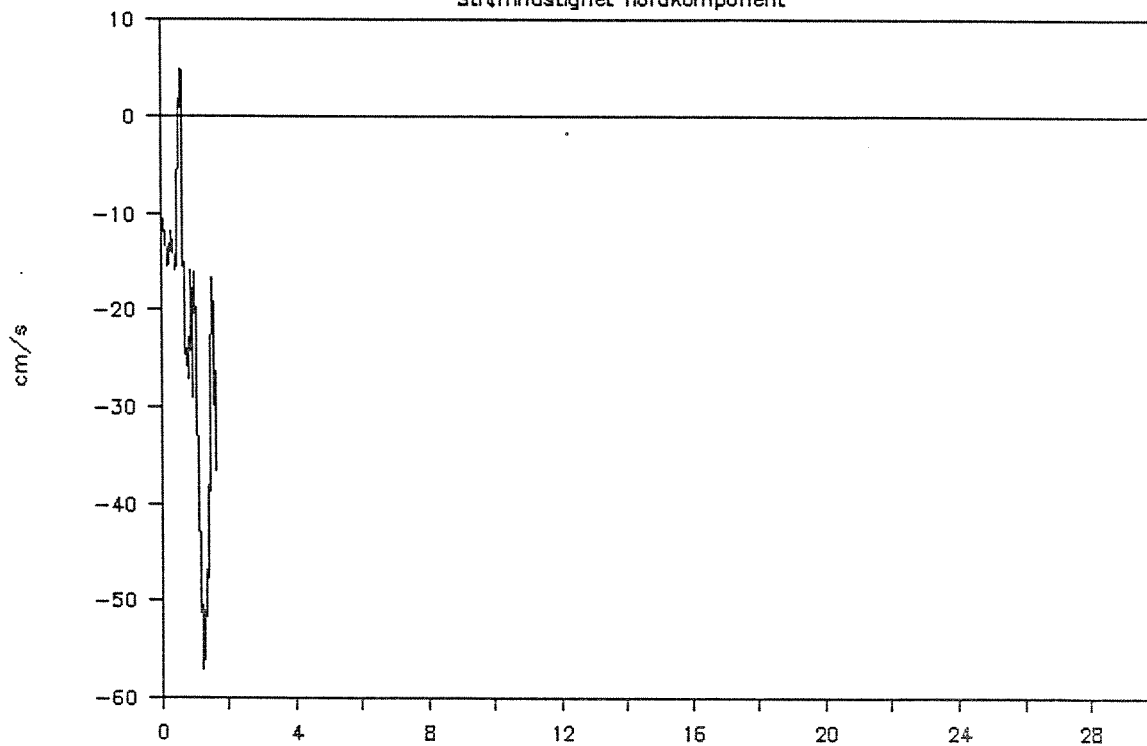


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Missingen 5 m.

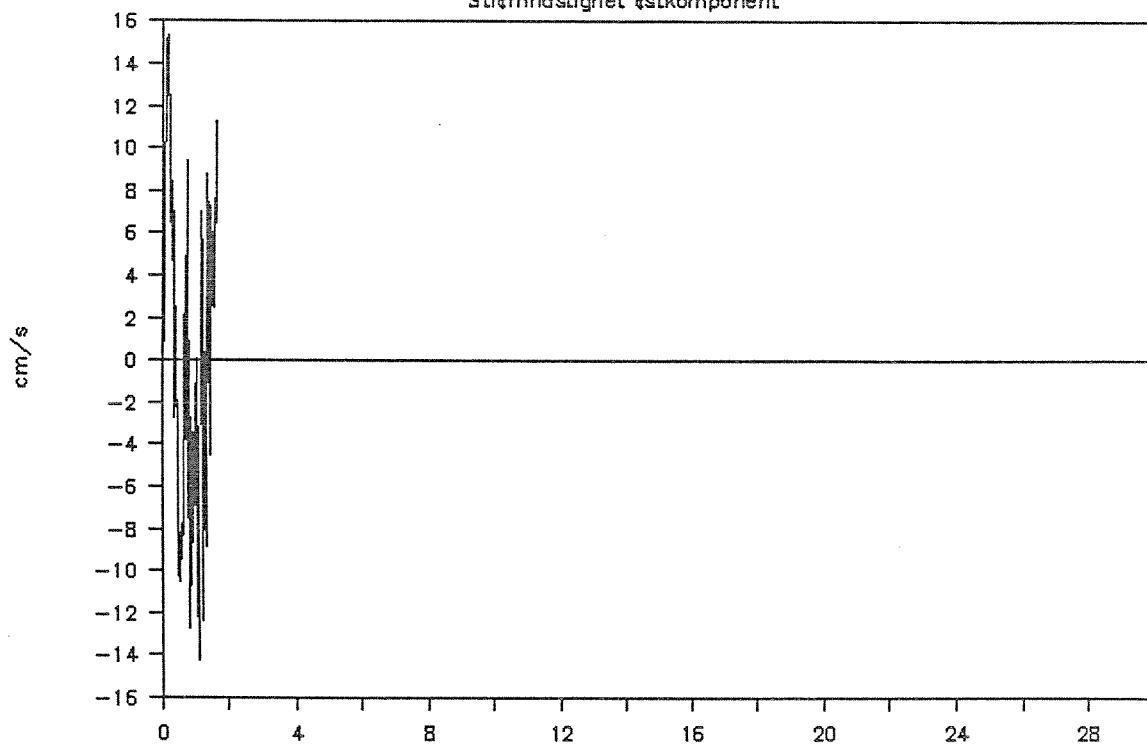
Strømhastighet nordkomponent



Dato November 1988

Missingen 5 m.

Strømhastighet østkomponent



Dato November 1988

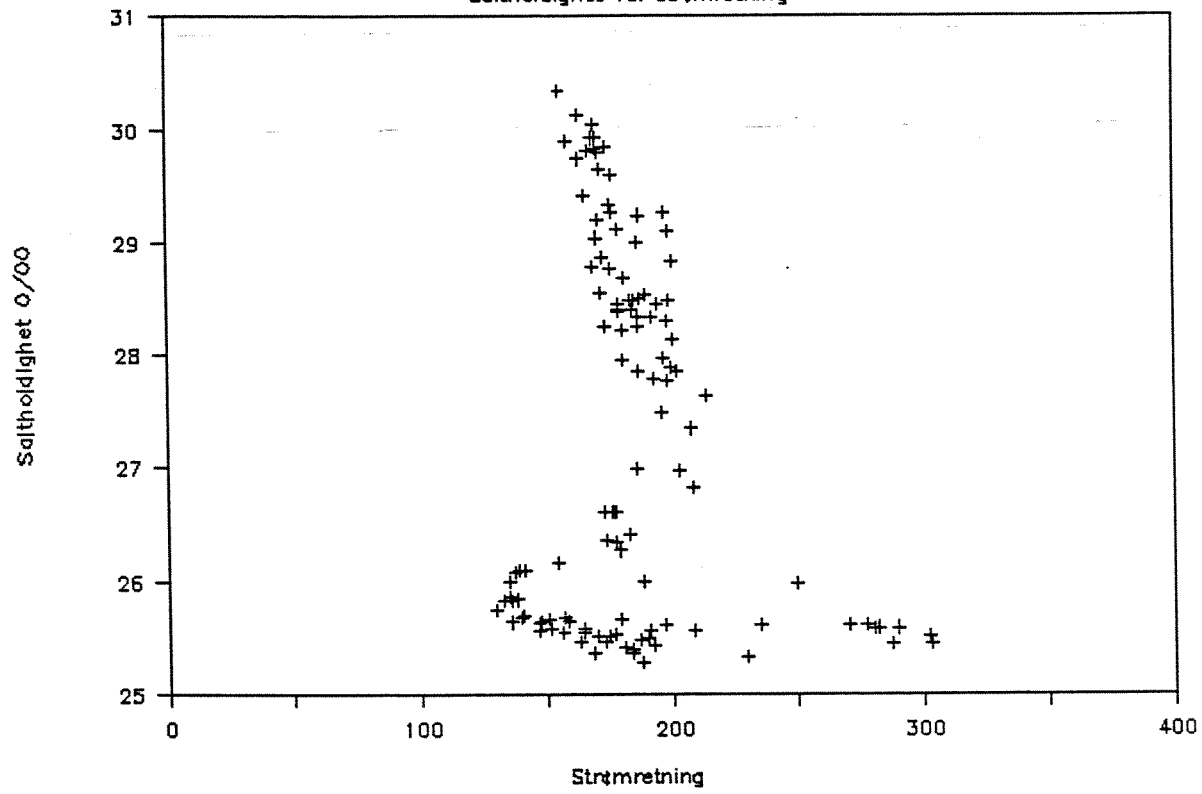


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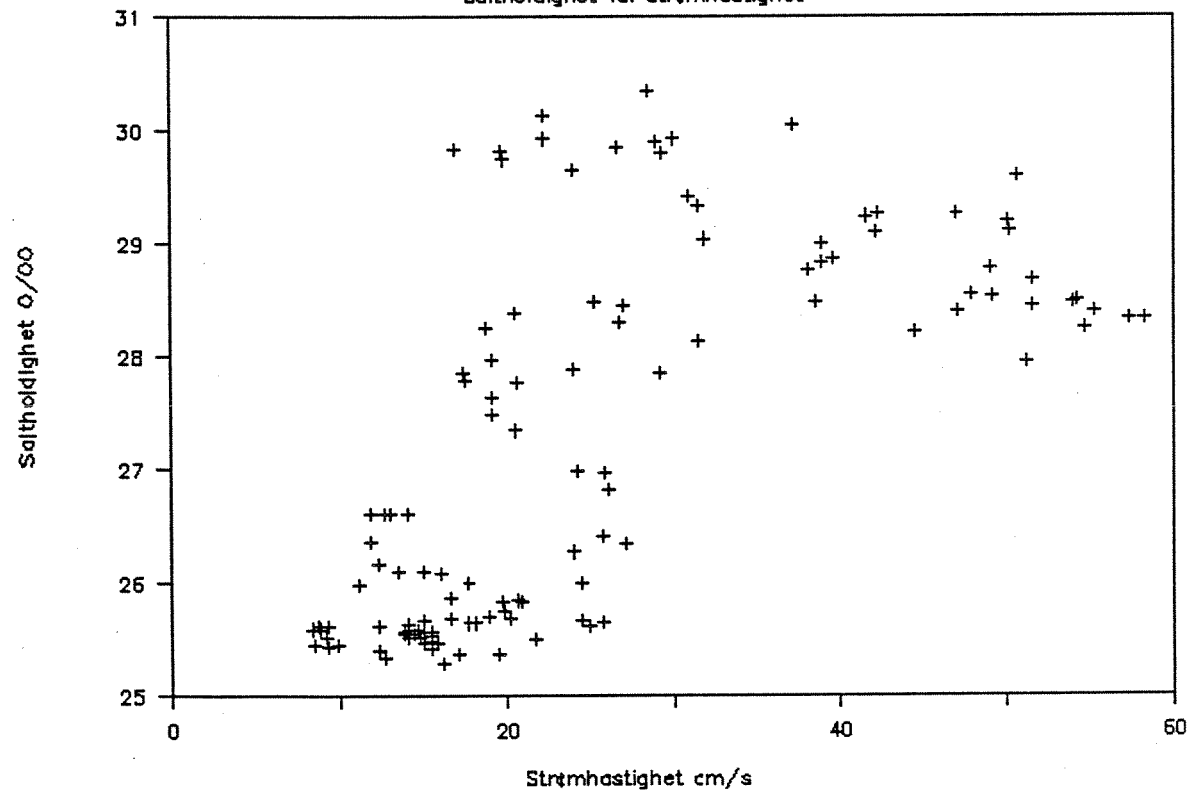
Missingen 5 m. November 1988

Saltholdighet vs. strømretning



Missingen 5 m. November 1988

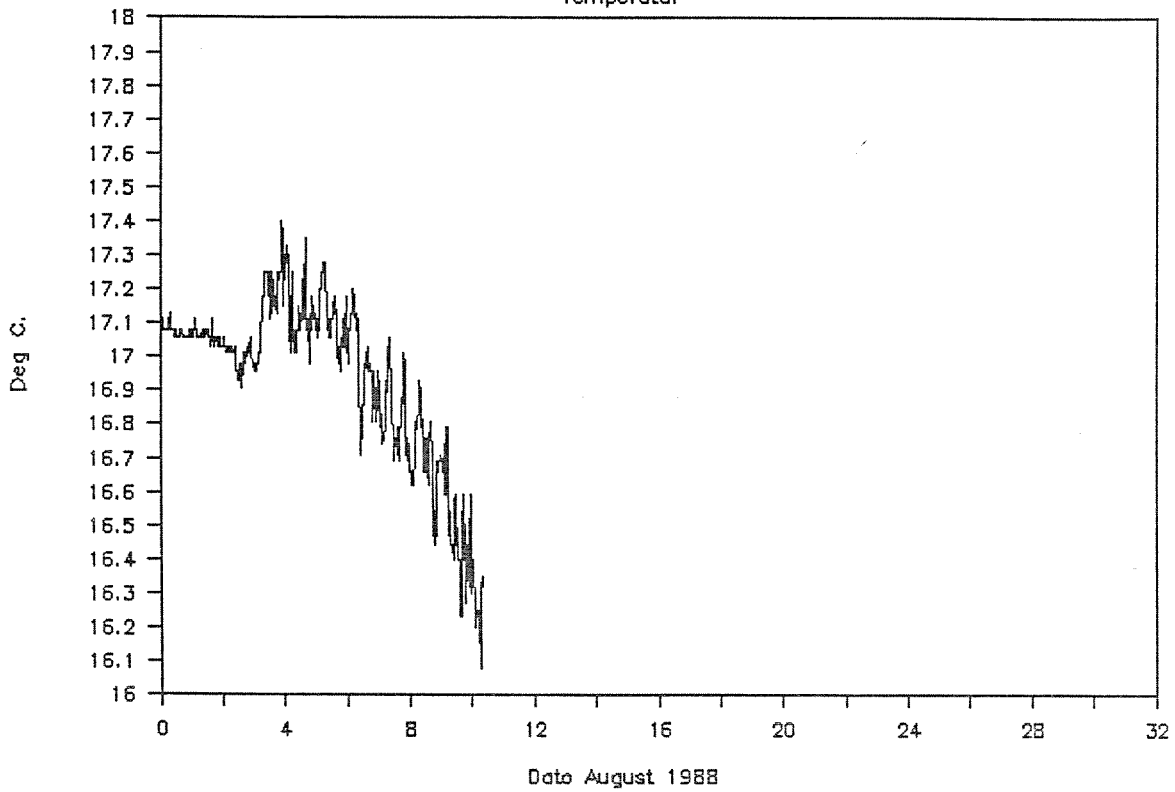
Saltholdighet vs. strømhastighet



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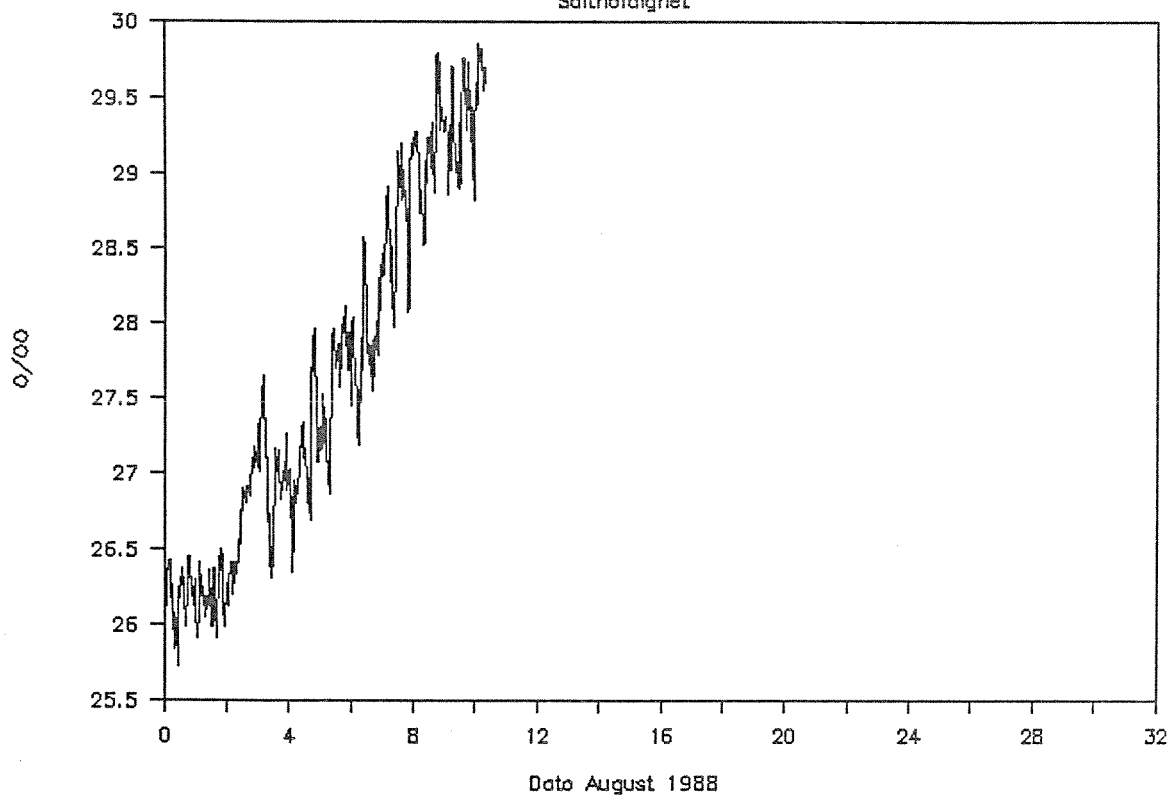
Missingene 10 m.

Temperatur



Missingene 10 m.

Saltholdighet

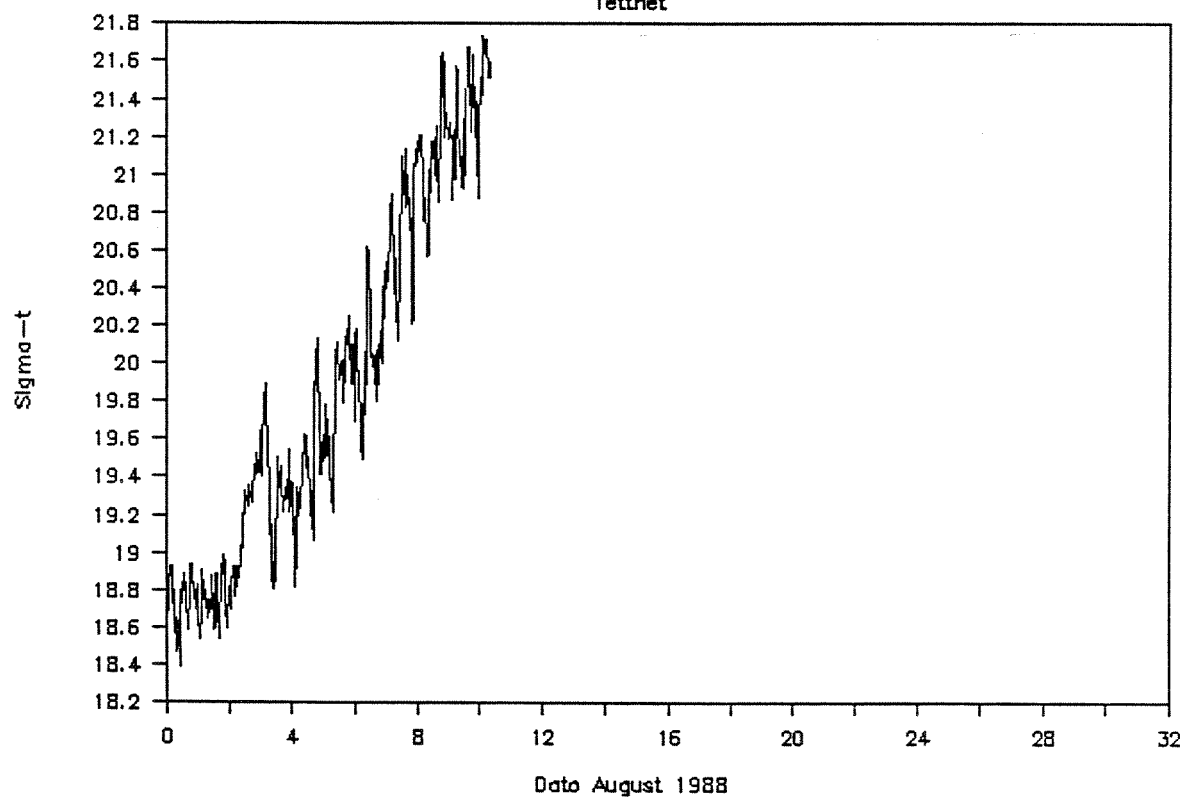


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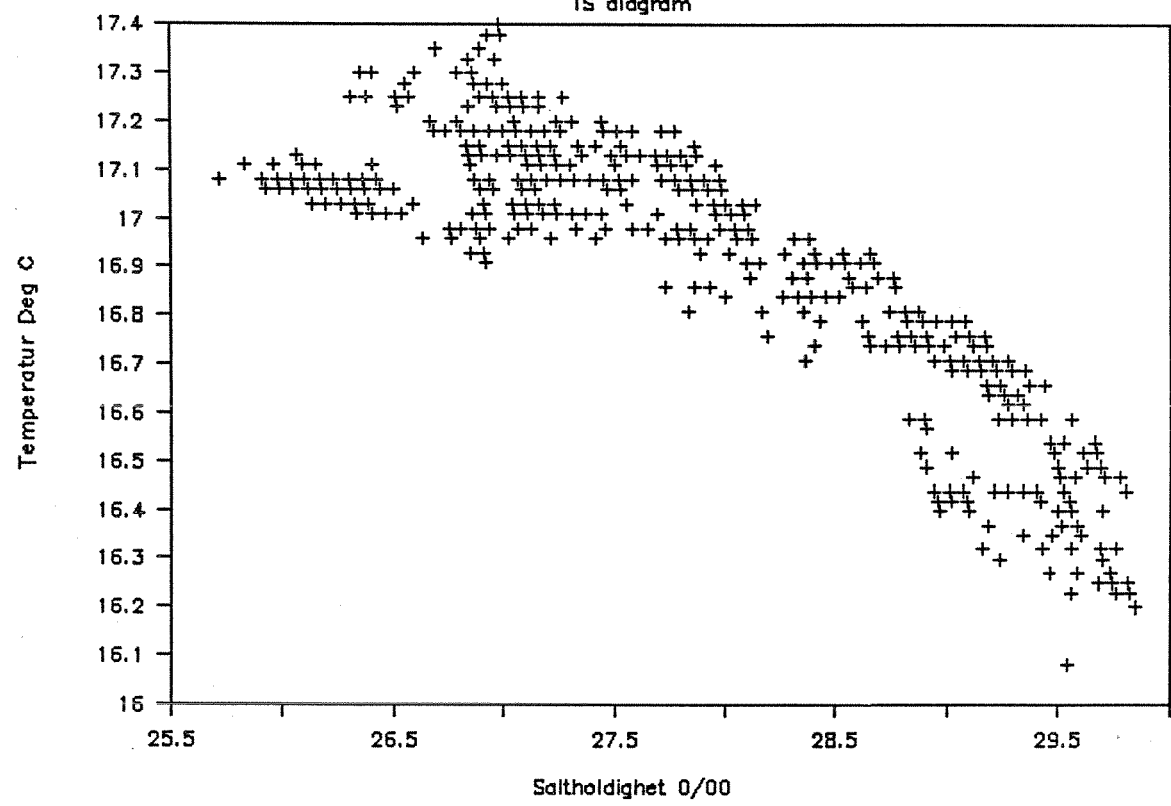
Missingene 10 m.

Tetthet



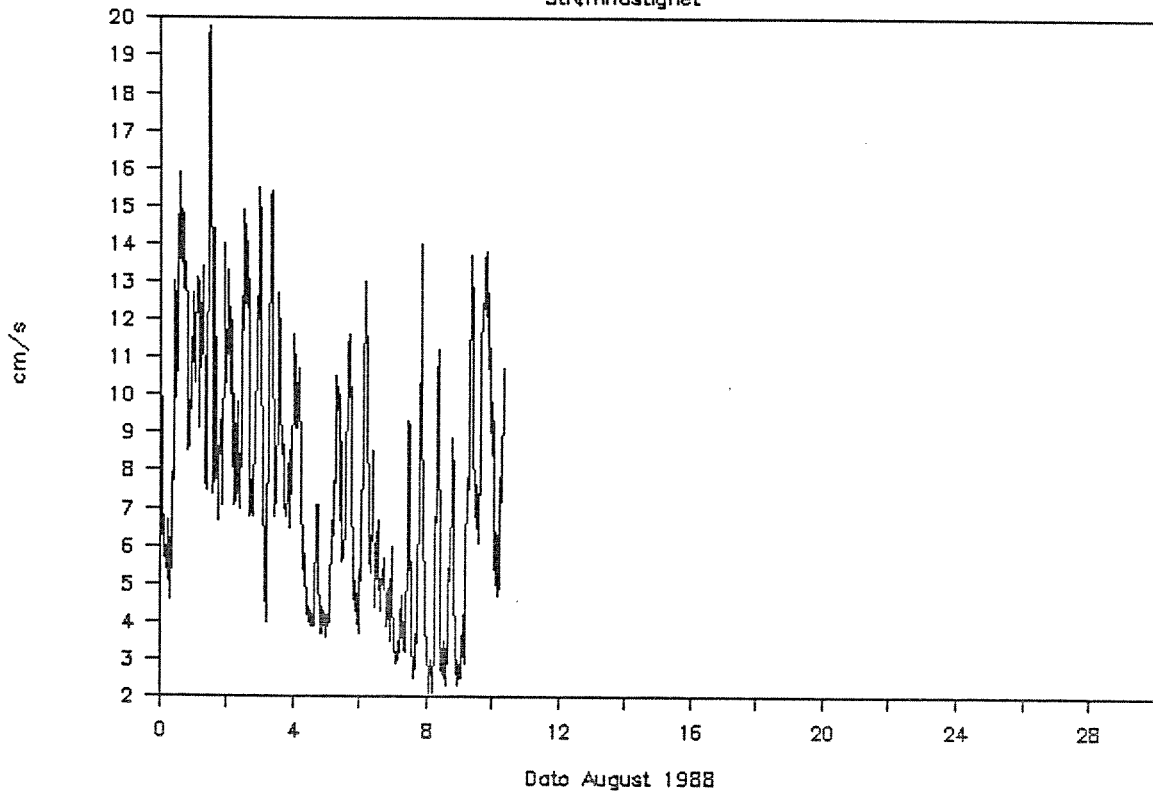
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TS diagram



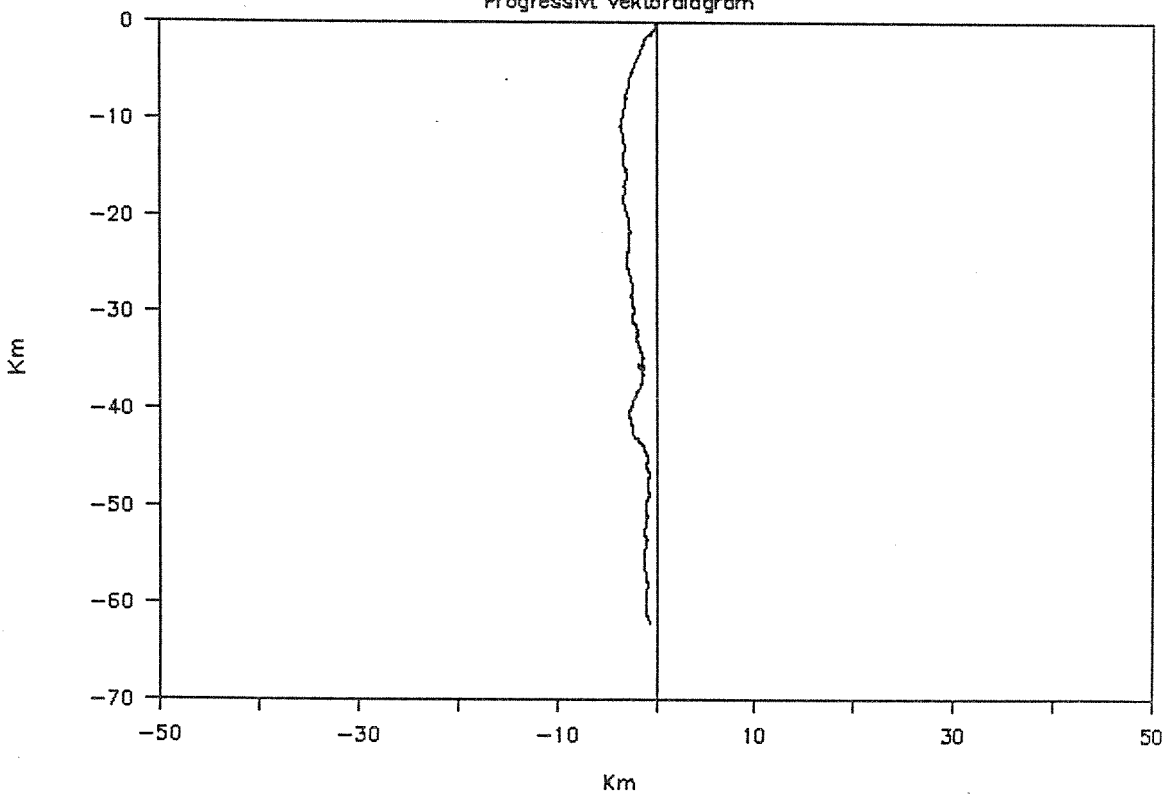
Missingene 10 m.

Strømhastighet



Missingene 10 m. August 1988

Progressivt vektordiagram

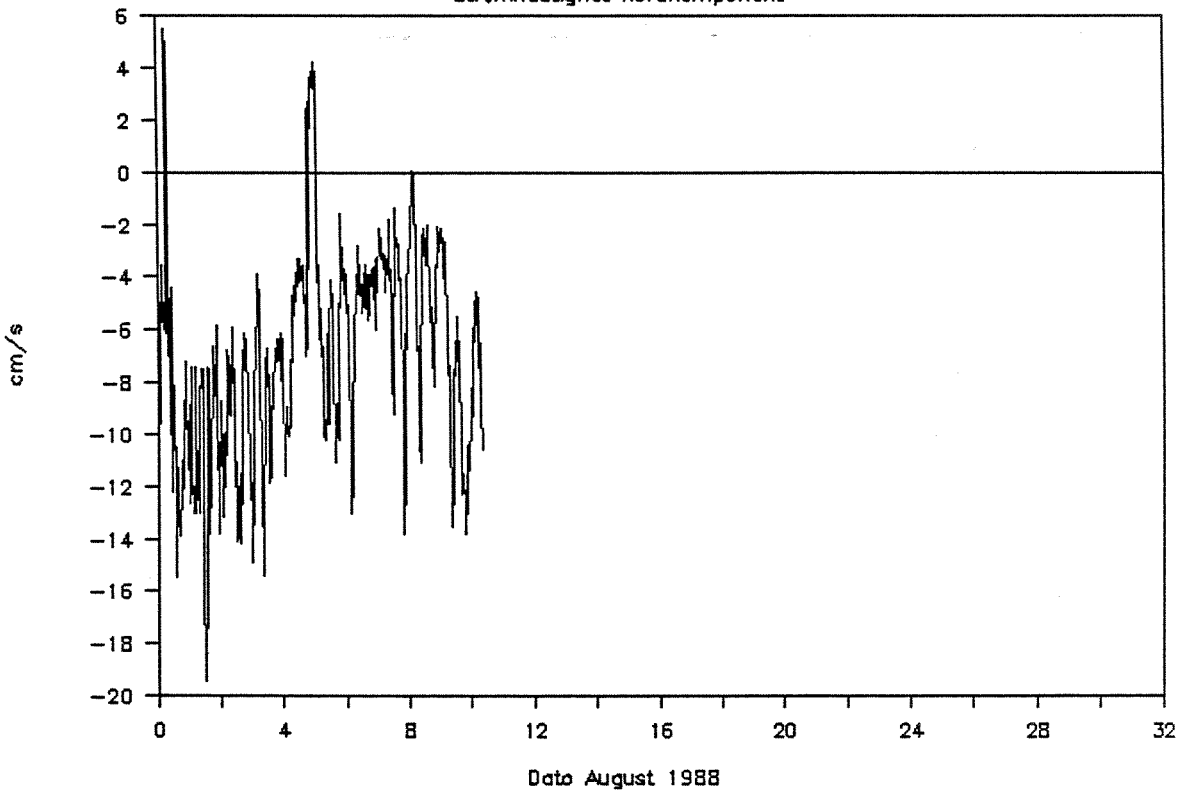


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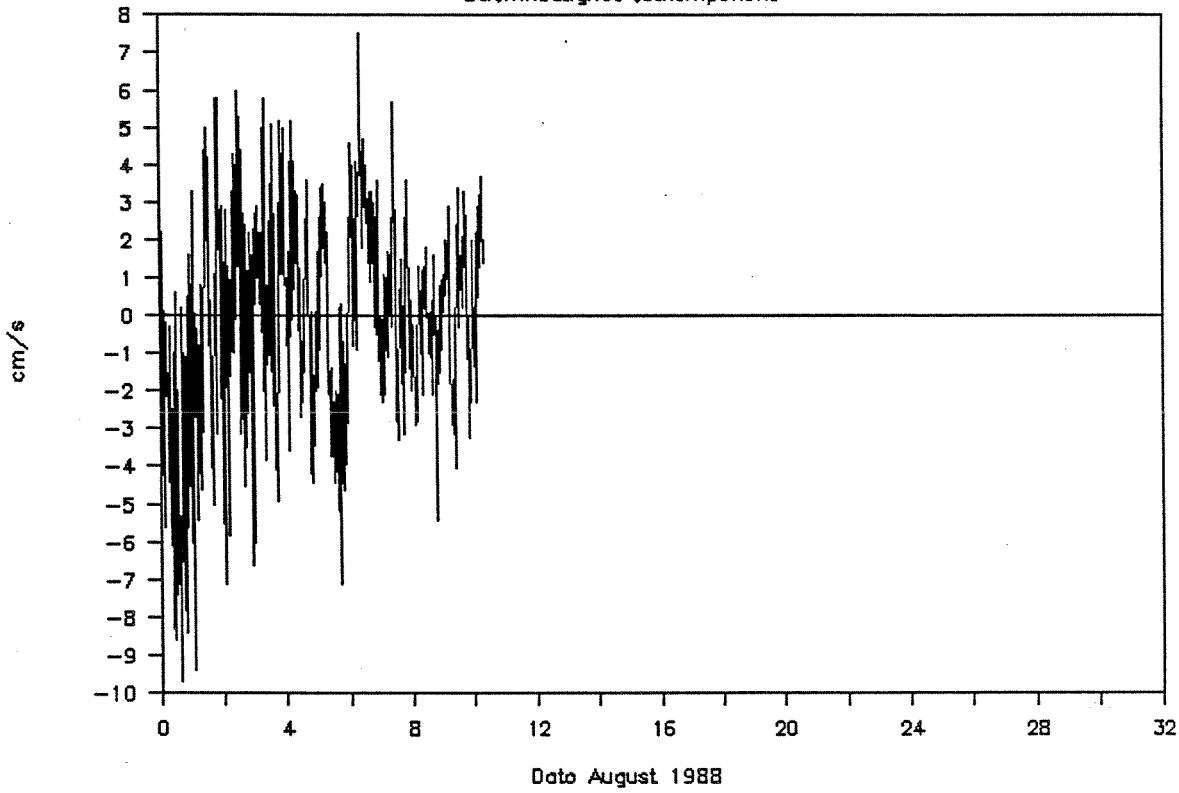
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Strømhastighet nordkomponent



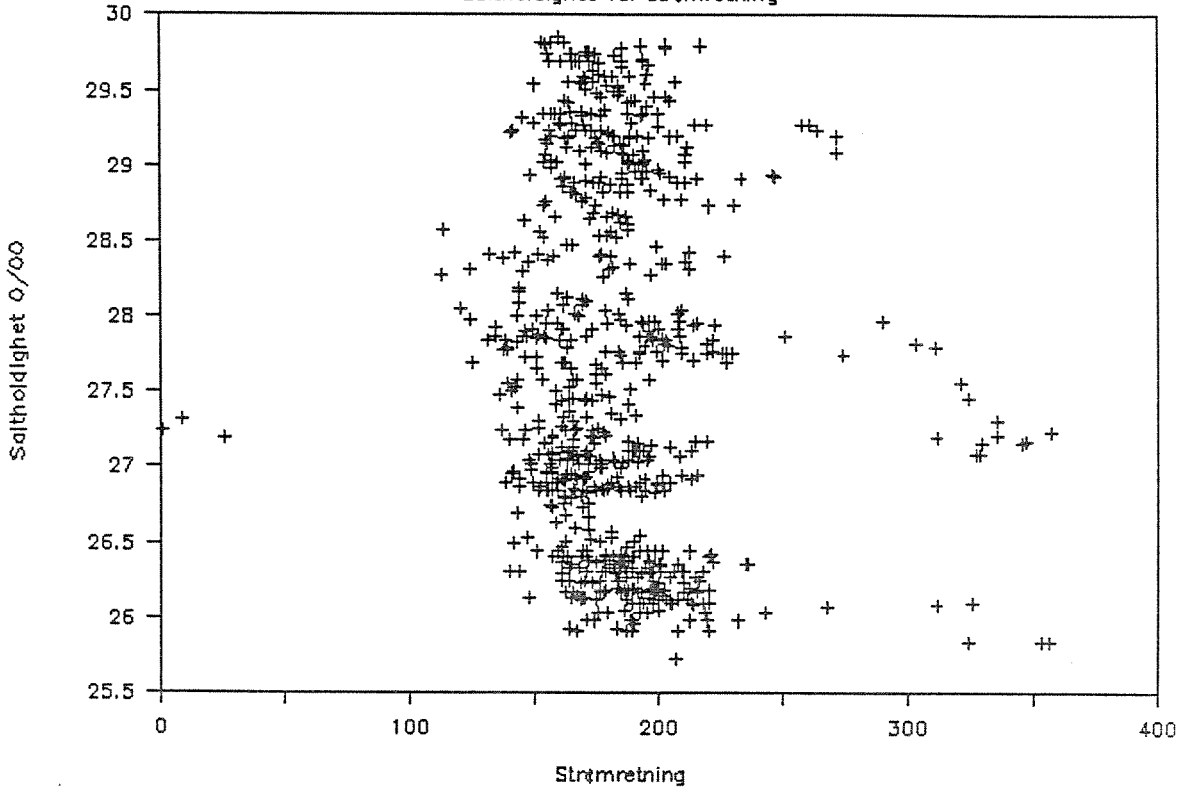
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Strømhastighet østkomponent



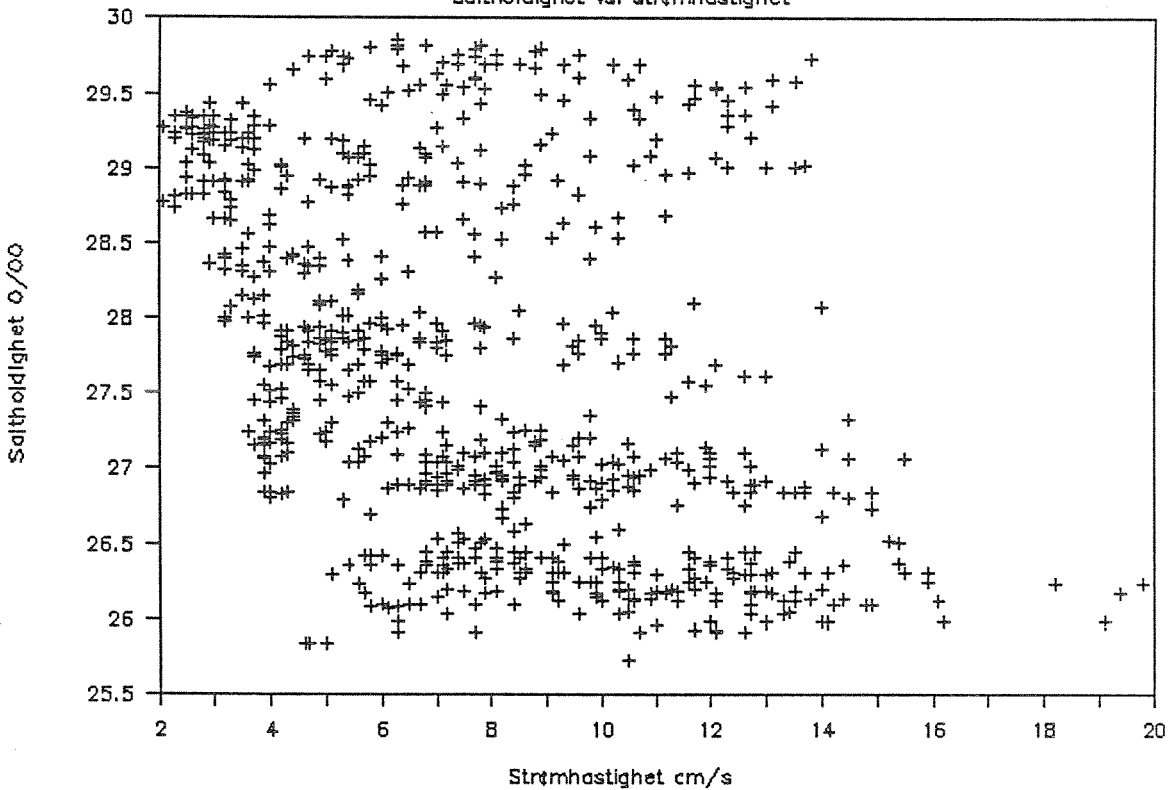
Missingene 10 m. August 1988

Saltholdighet vs. strømretning



Missingene 10 m. August 1988

Saltholdighet vs. strømhastighet

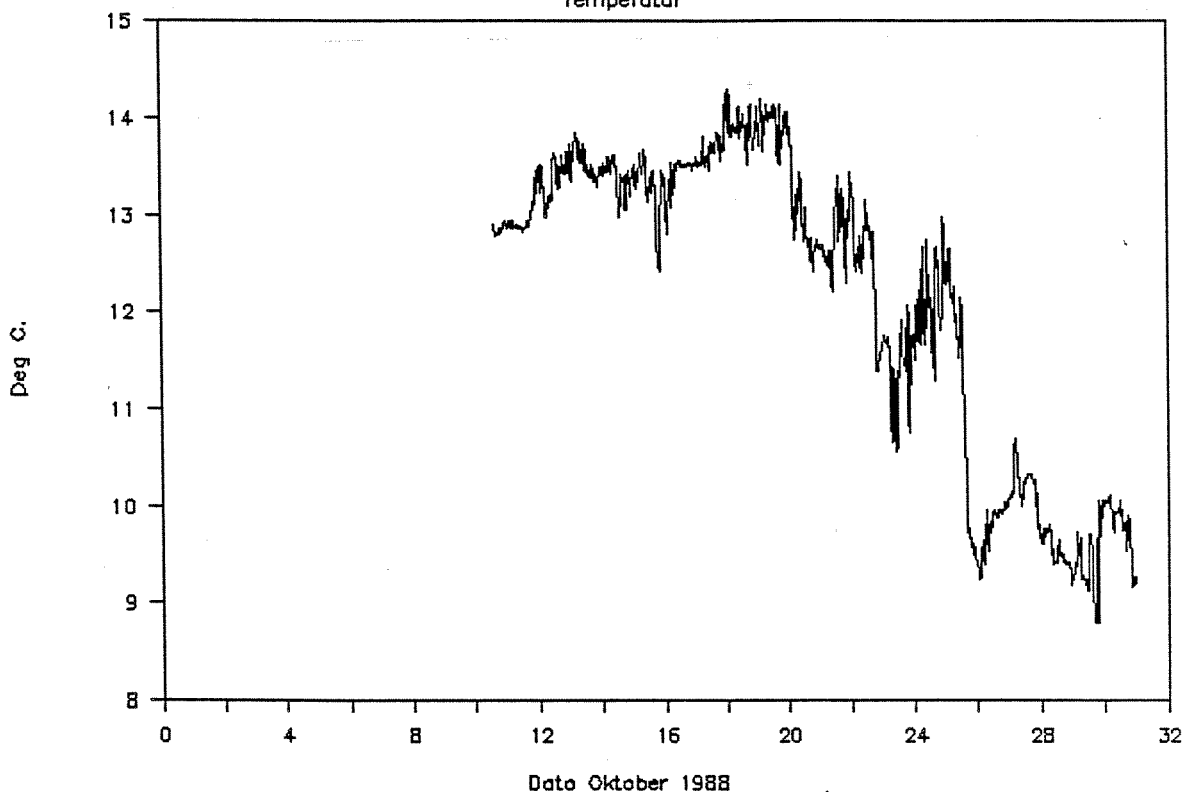


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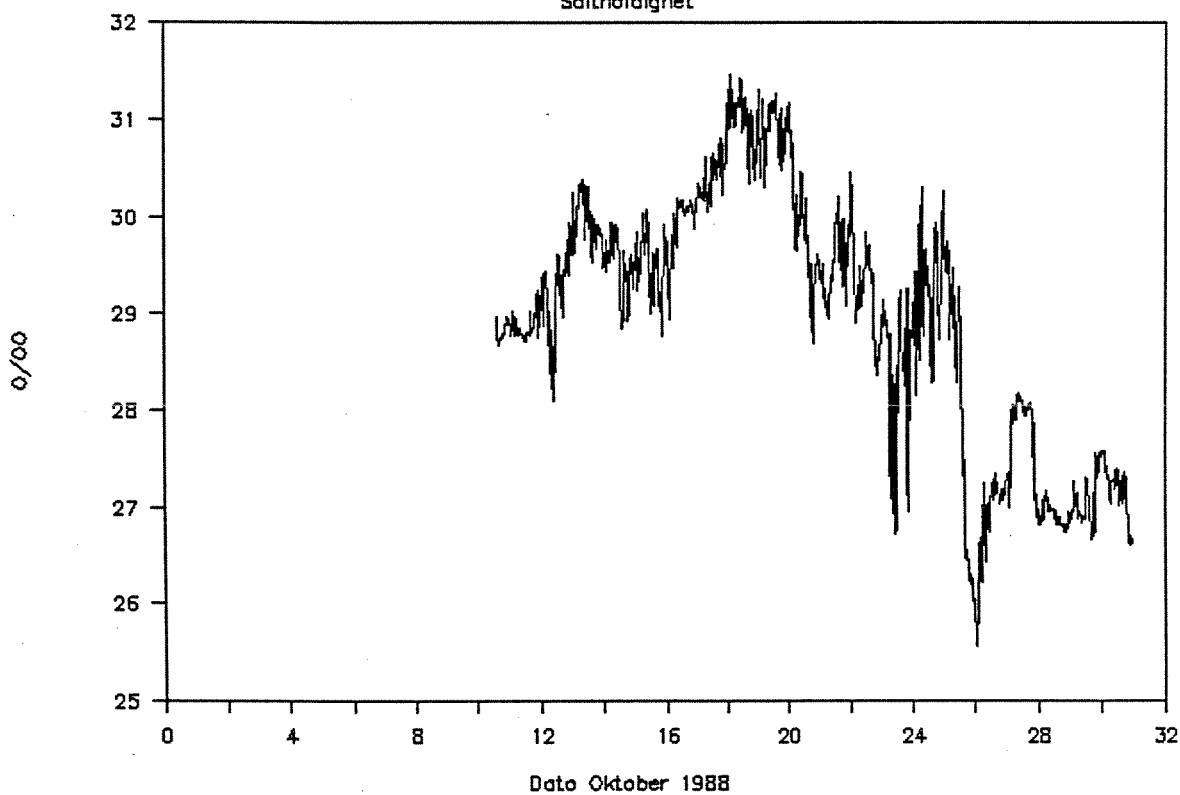
Missingen 10 m.

Temperatur



Missingen 10 m.

Saltholdighet

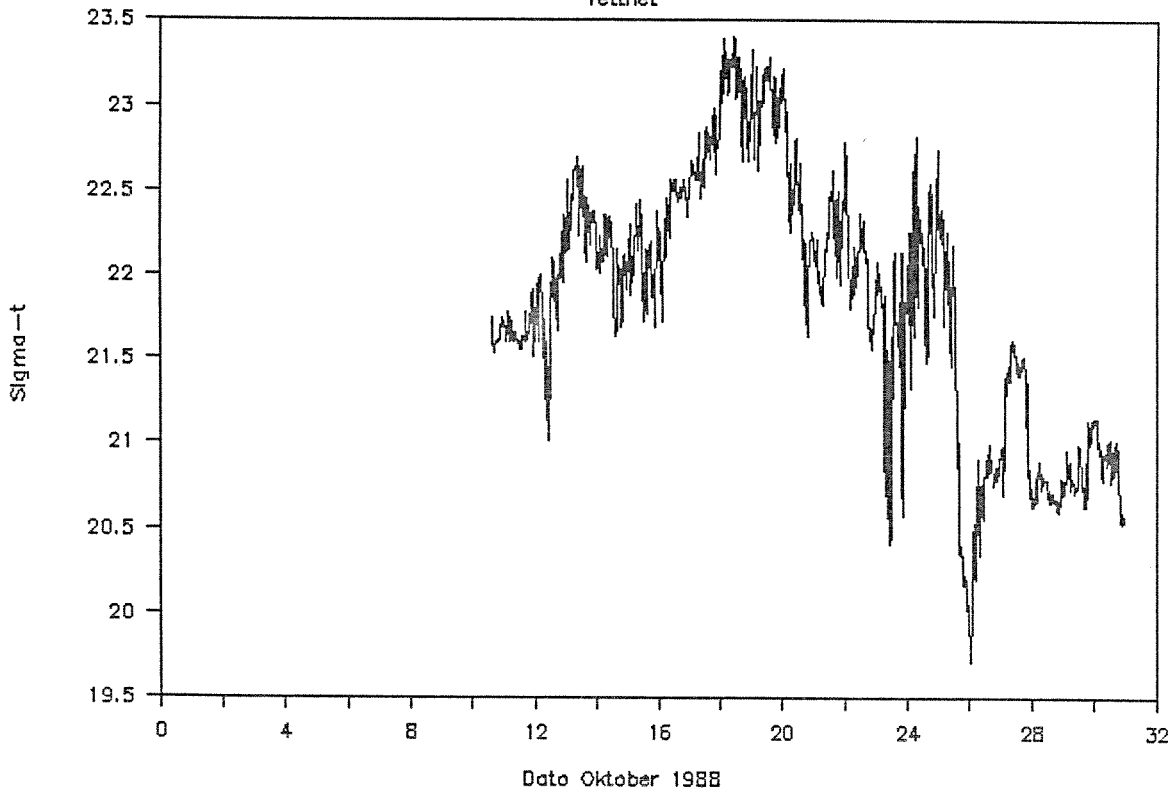


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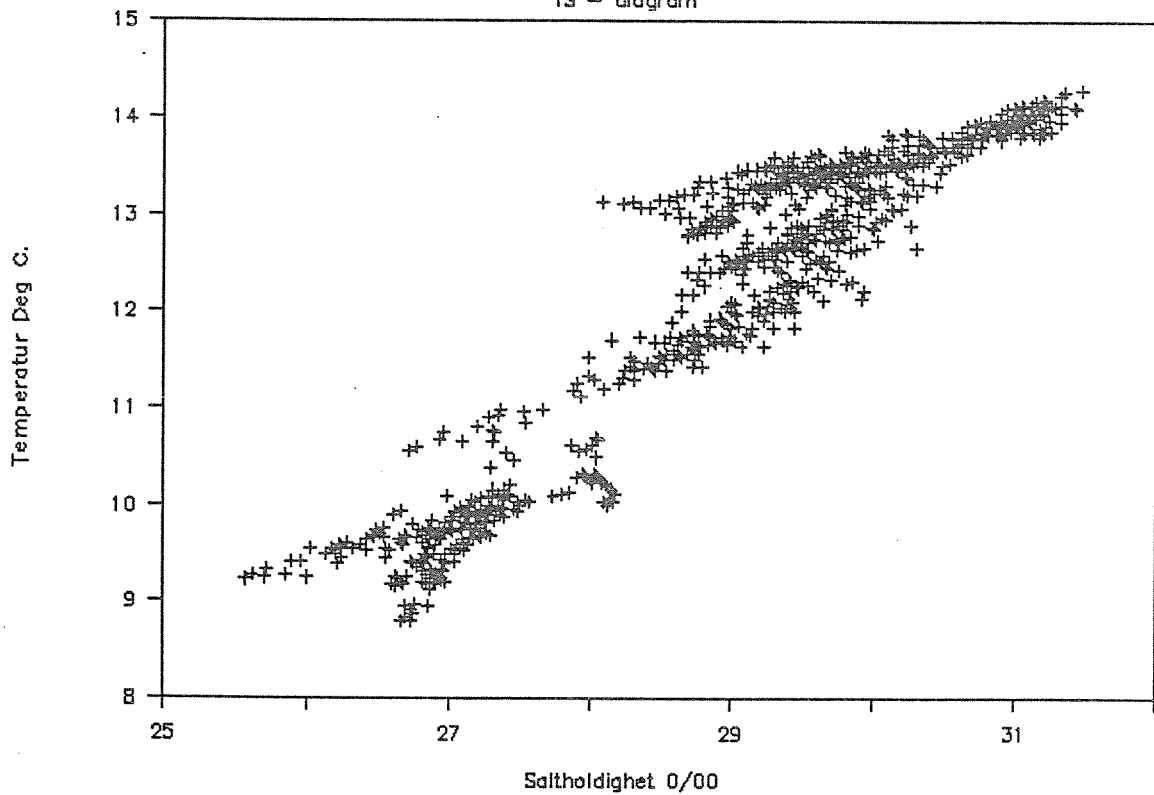
Missingen 10 m.

Tetthet



Missingen 10 m. Oktober 1988

TS - diagram

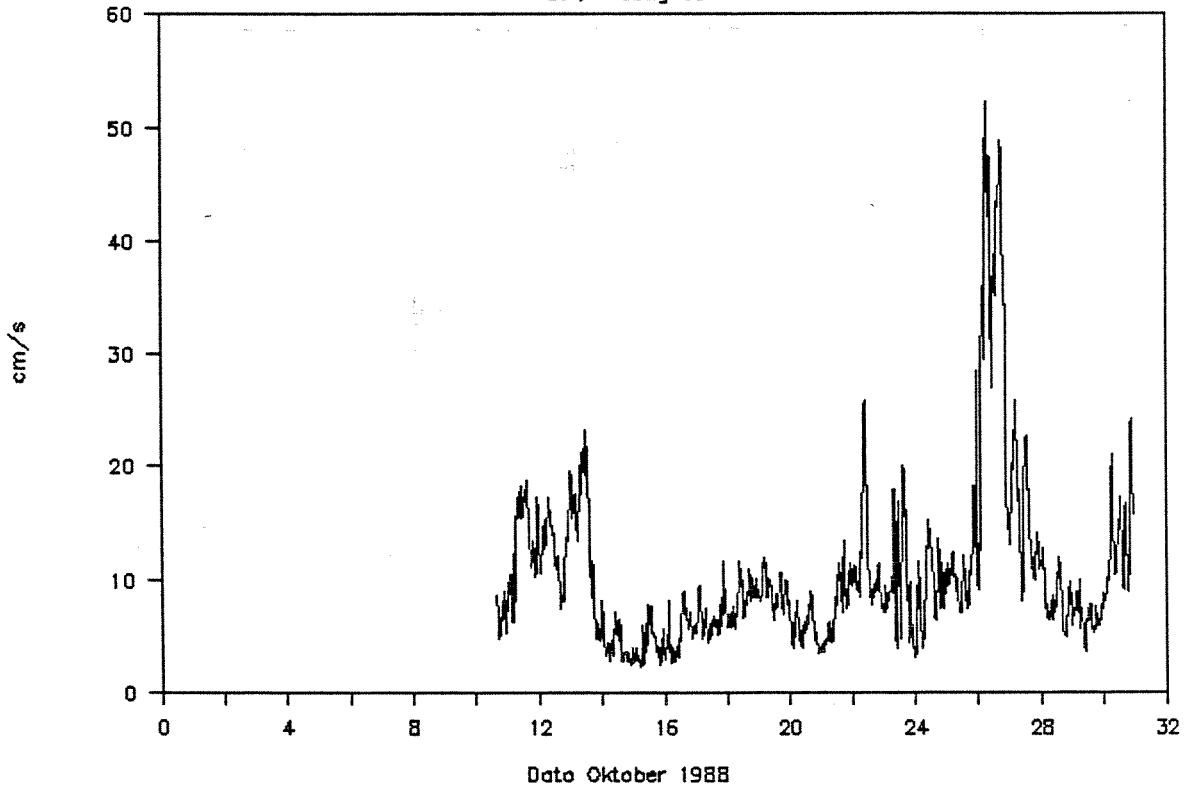


VERITEC

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and Services A/S

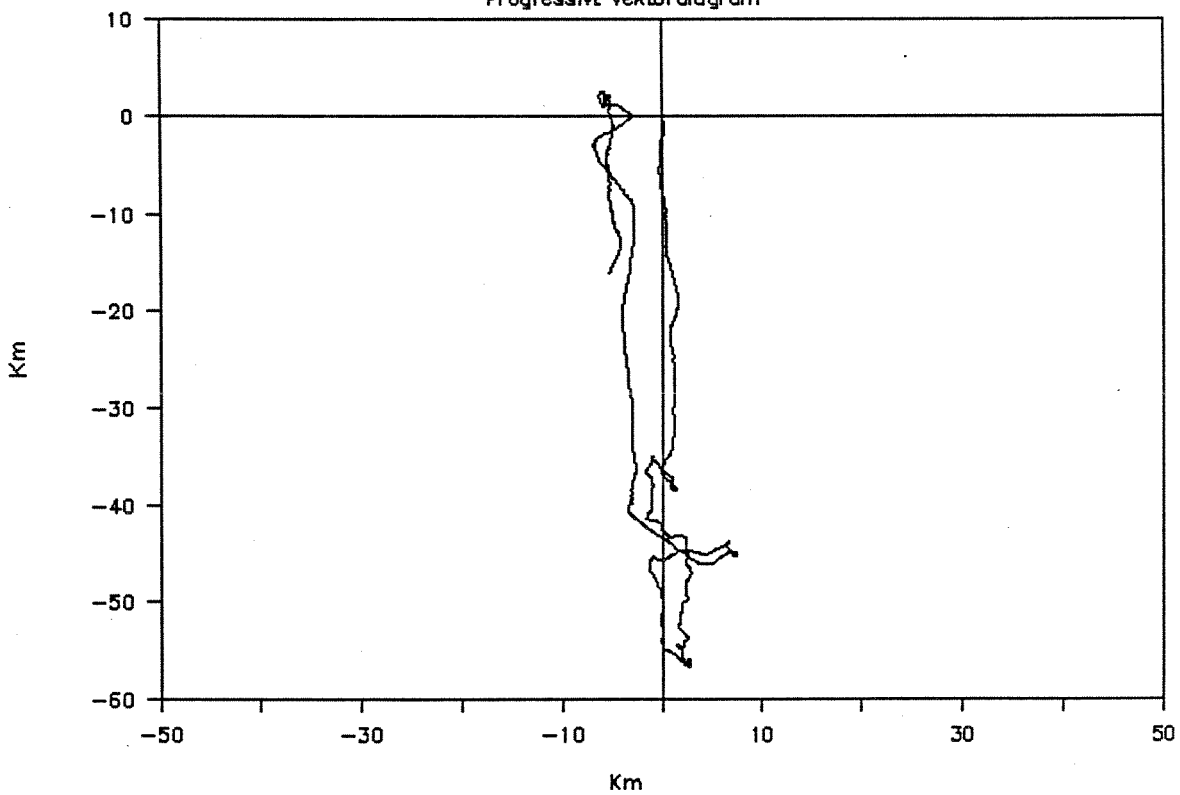
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Strømhastighet



Missingen 10 m. Oktober 1988

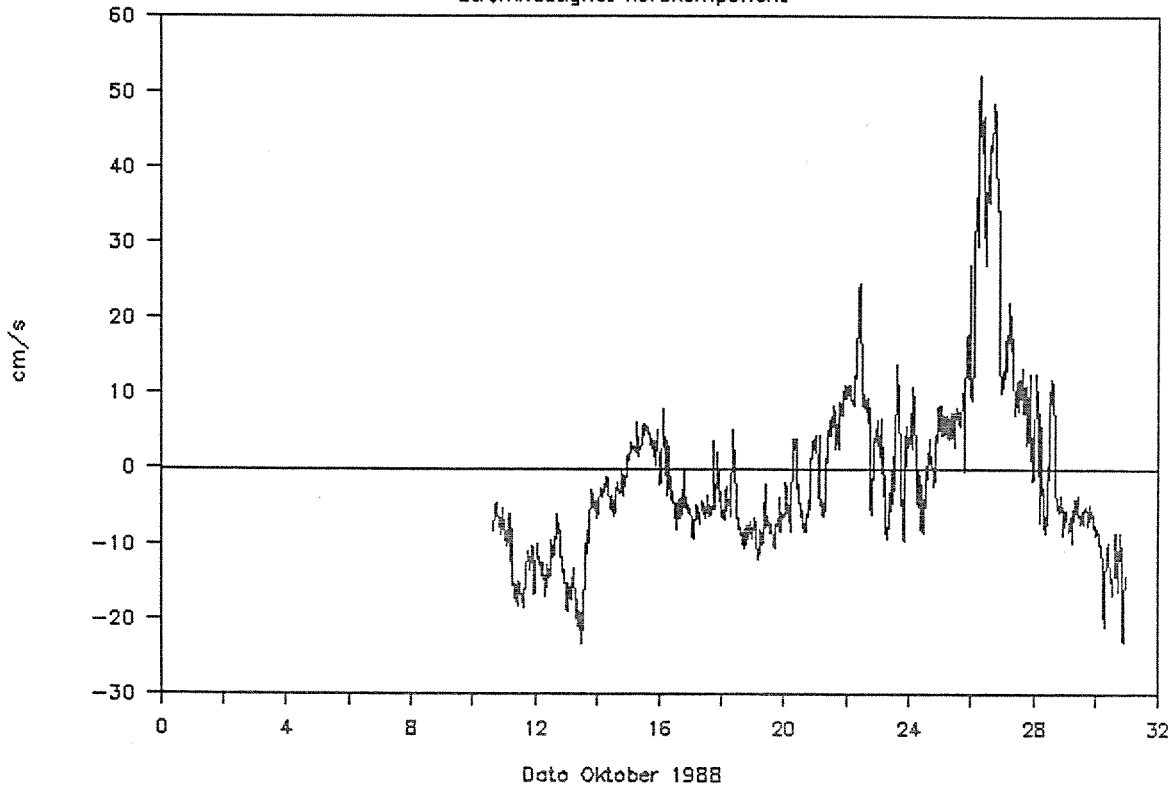
Progressivt vektordiagram



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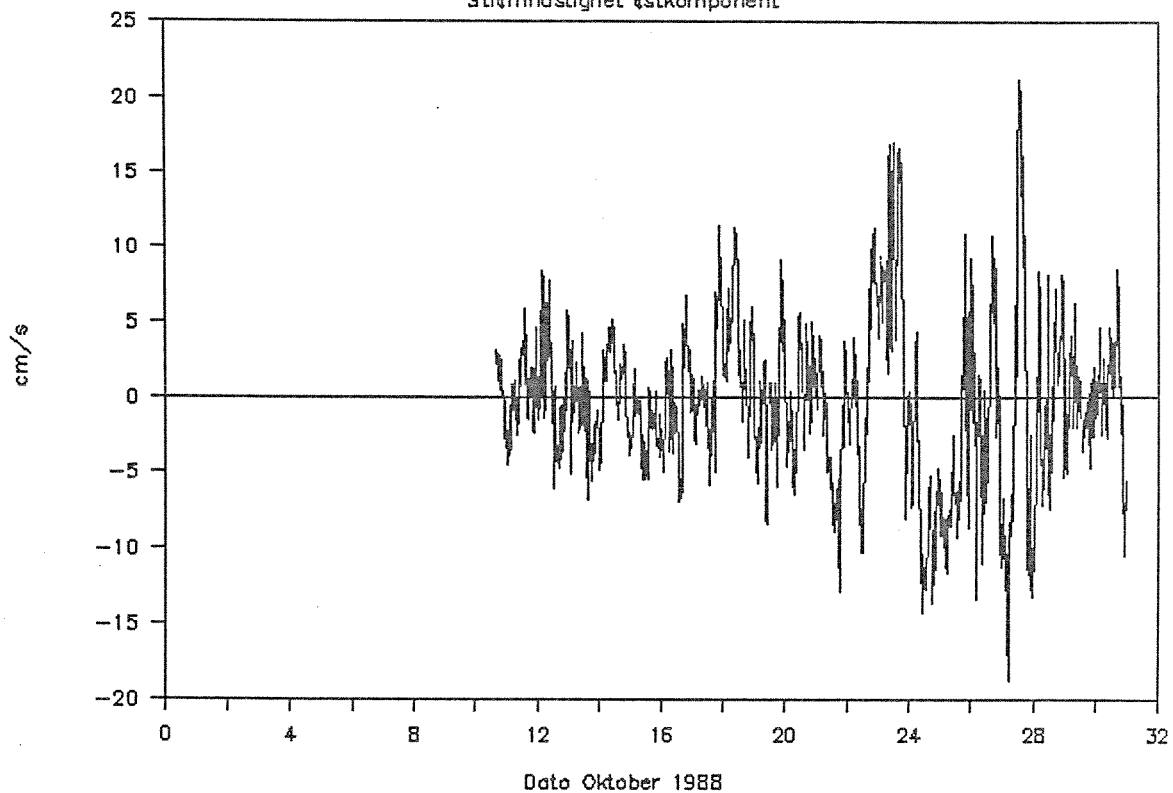
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Strømhastighet nordkomponent



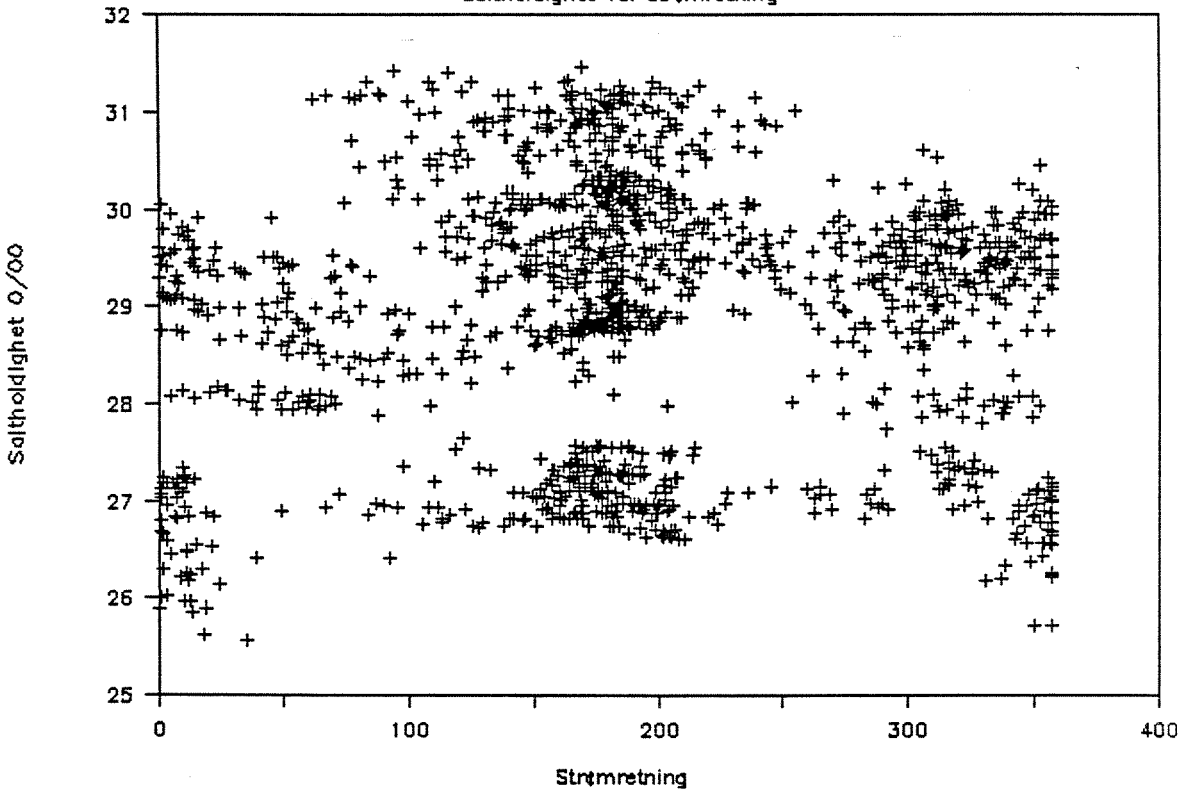
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Strømhastighet østkomponent

**VERITEC**Veritas Offshore Technology
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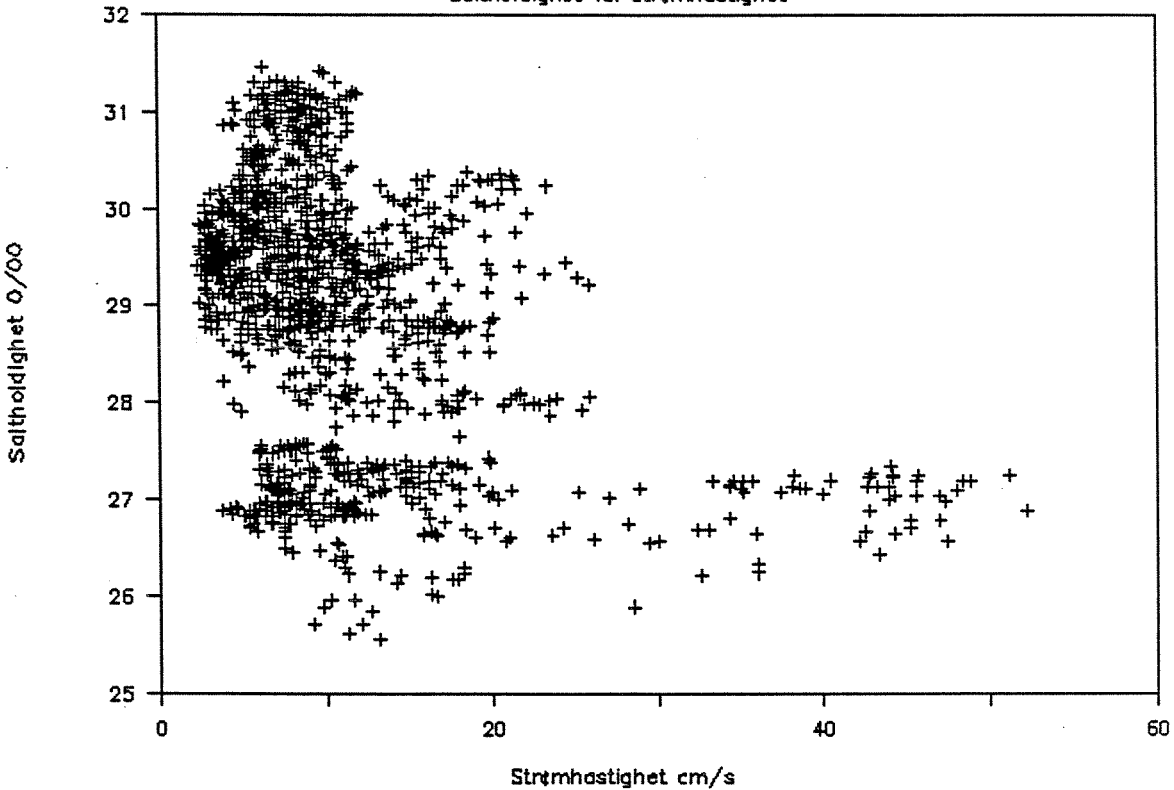
Missingen 10 m. Oktober 1988

Saltholdighet vs. strømretning



Missingen 10 m. Oktober 1988

Saltholdighet vs. strømhastighet

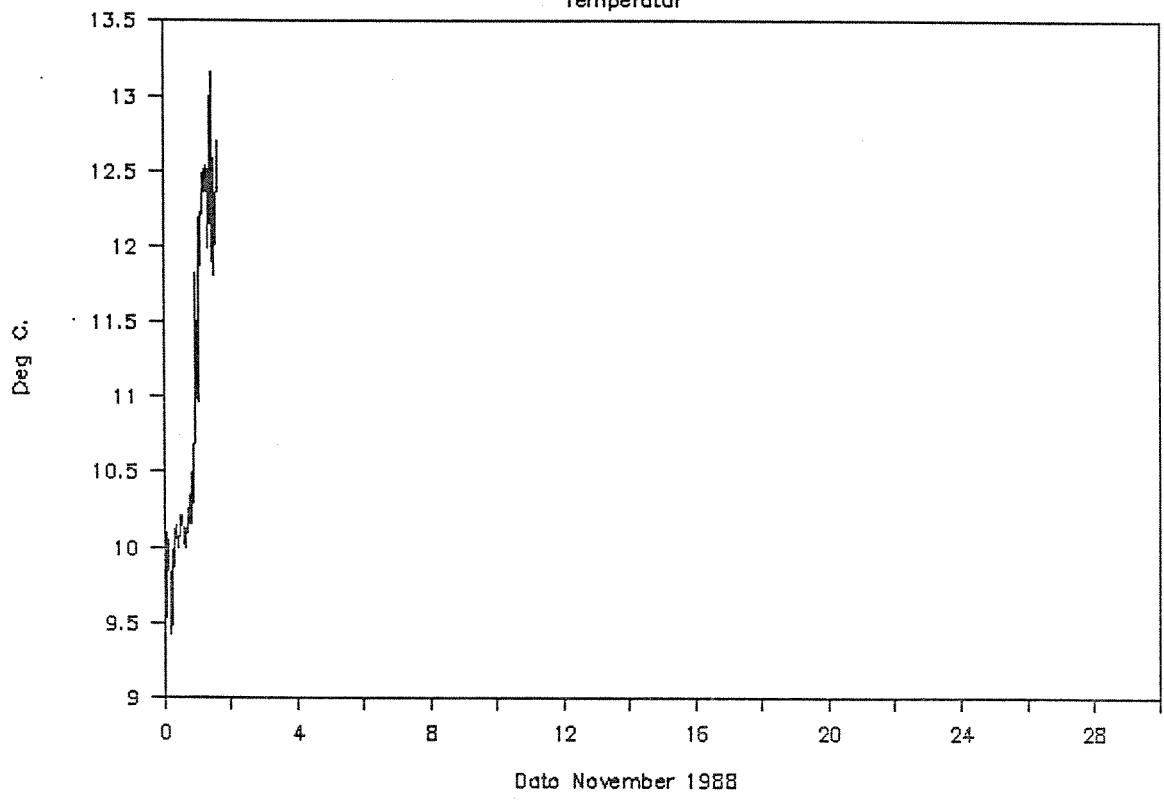


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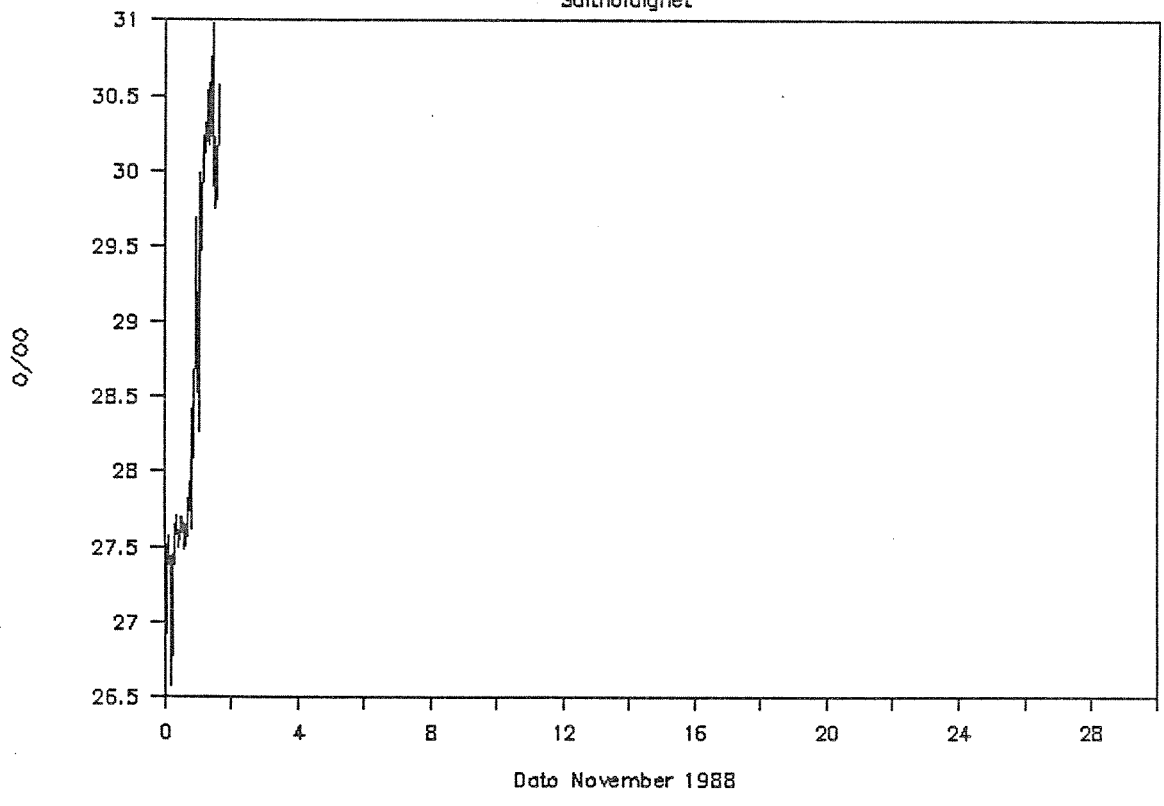
Missingen 10 m.

Temperatur



Missingen 10 m.

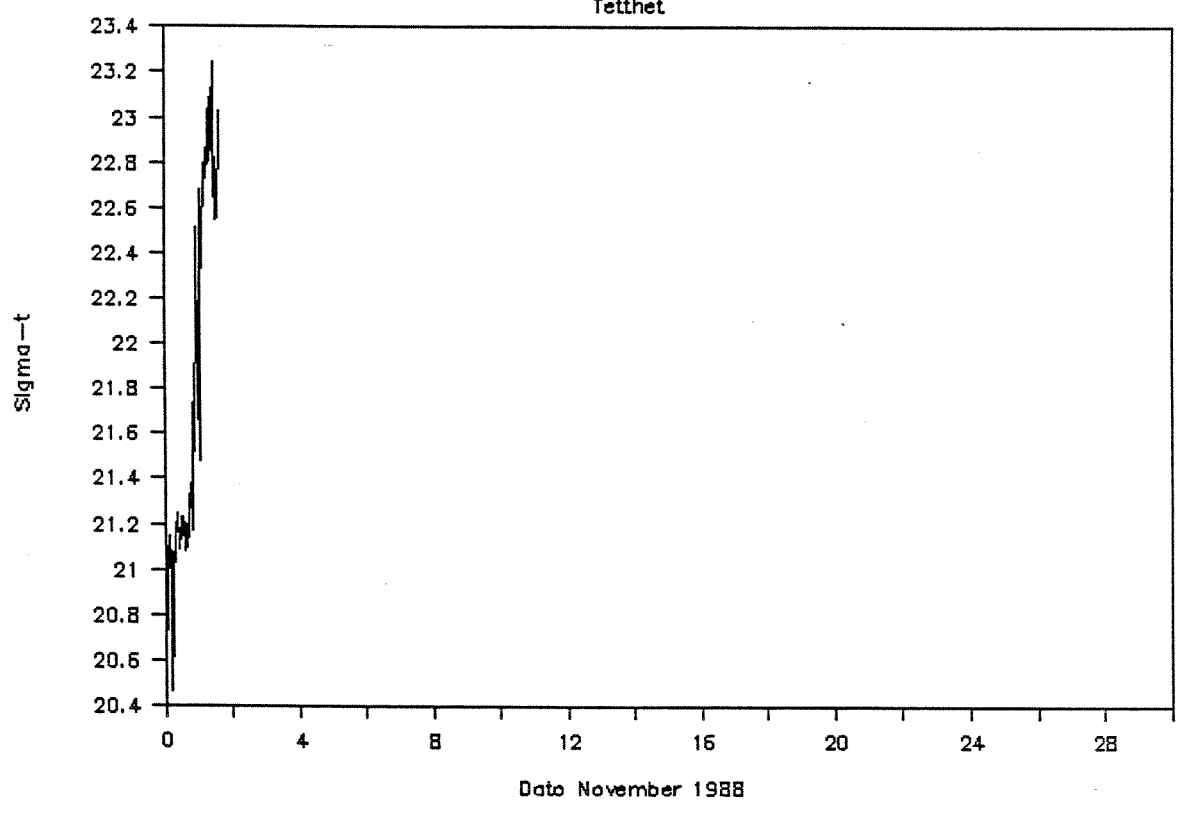
Saltholdighet



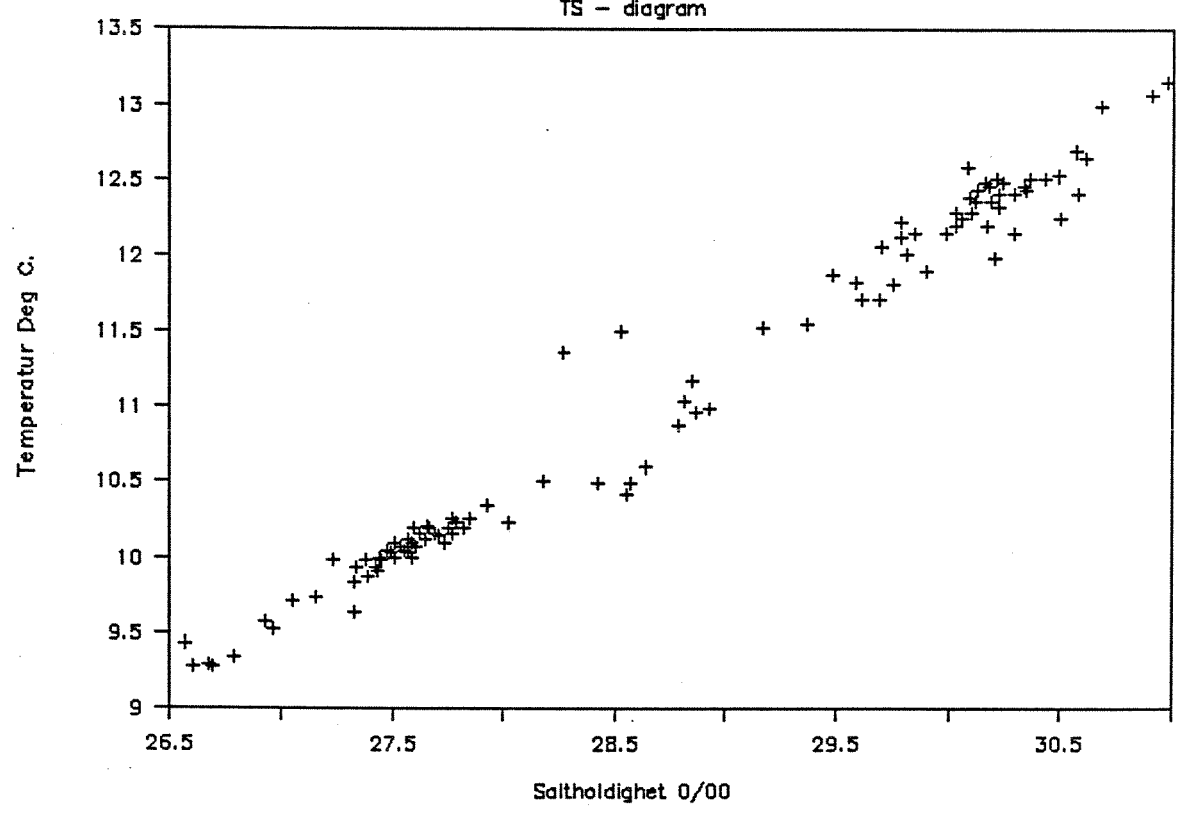
VERITEC

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Missingen 10 m. Tetthet



Missingen 10 m. November 1988 TS - diagram

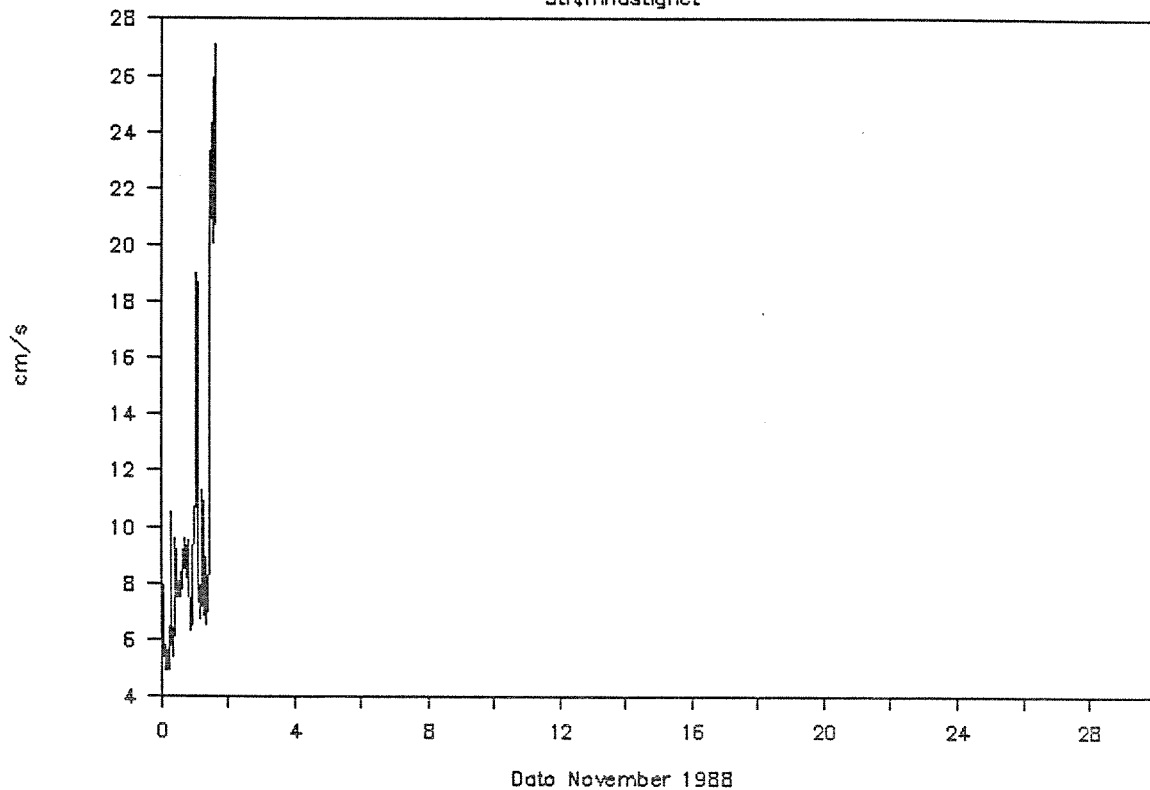


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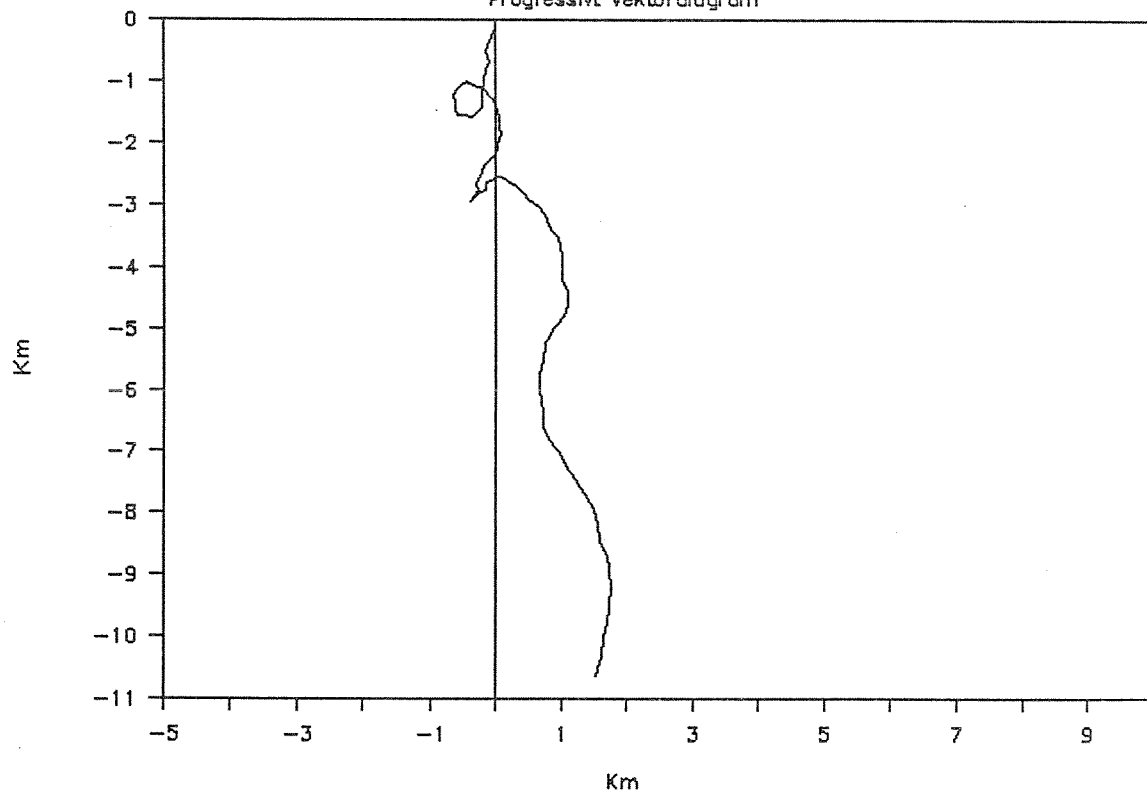
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Strømhastighet



Missingen 10 m. November 1988

Progressivt vektordiagram

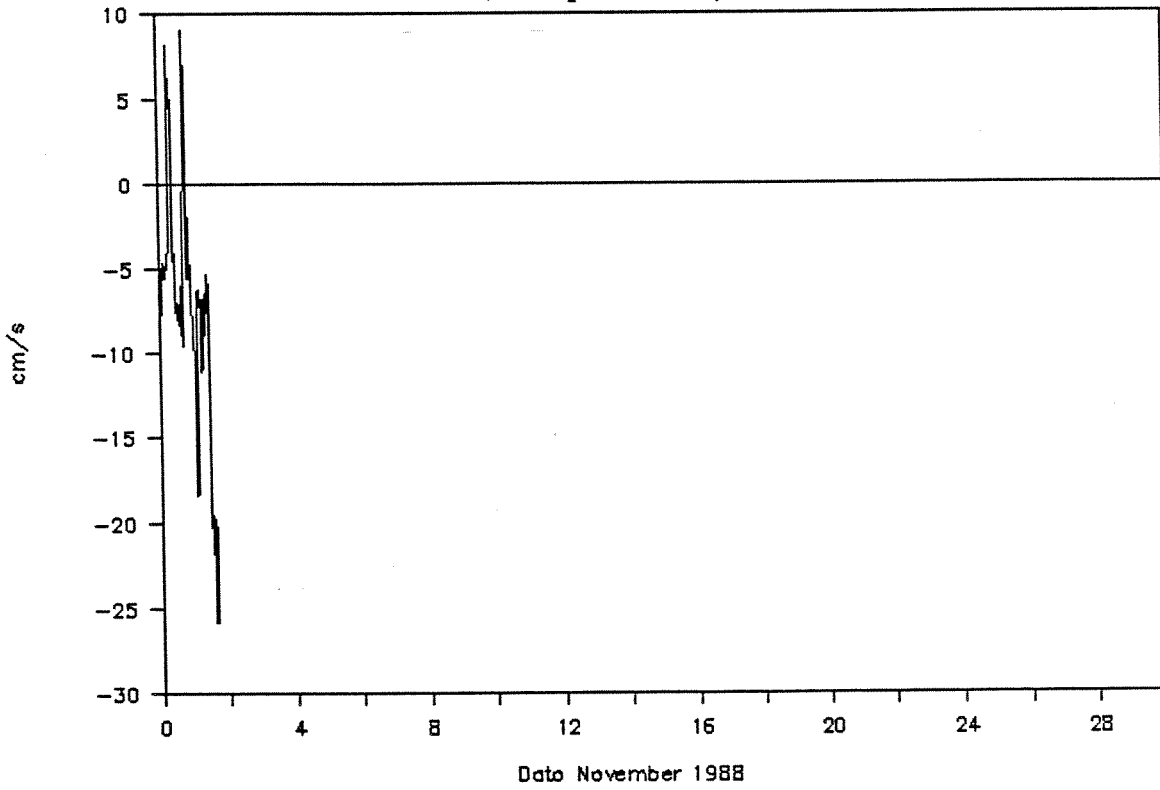


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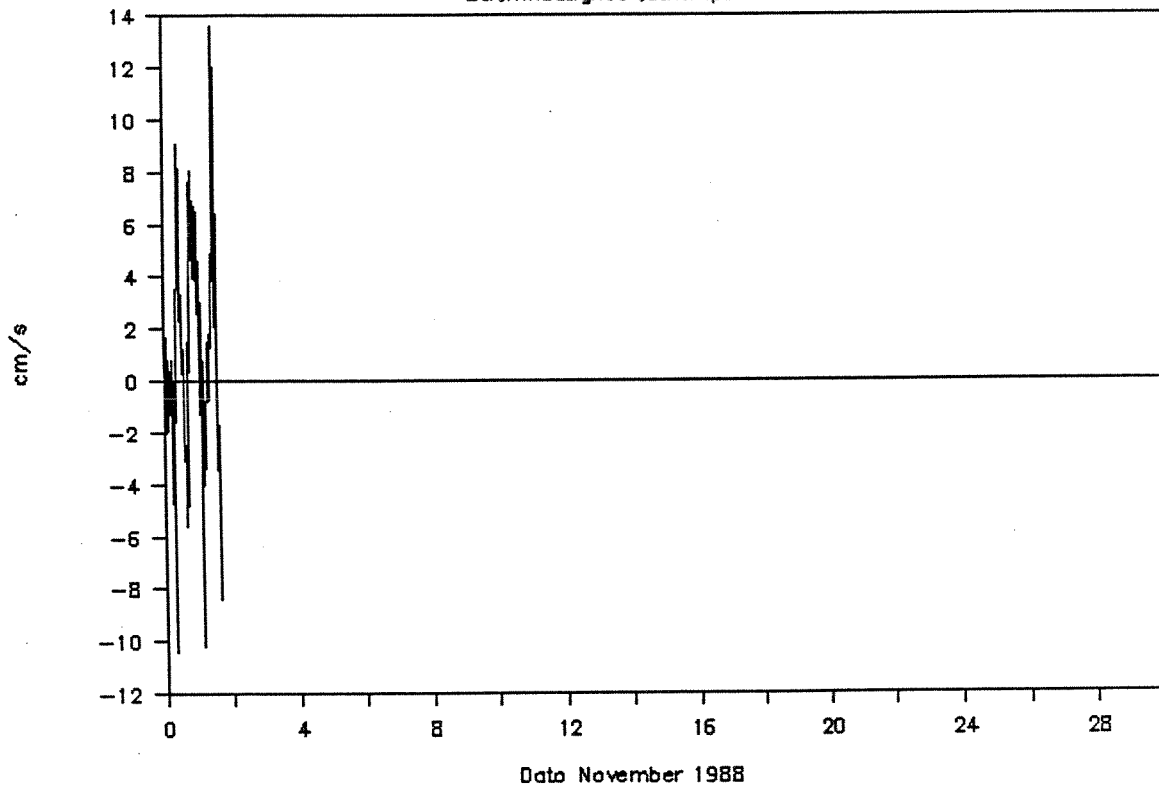
Missingen 10 m.

Strømhastighet nordkomponent



Missingen 10 m.

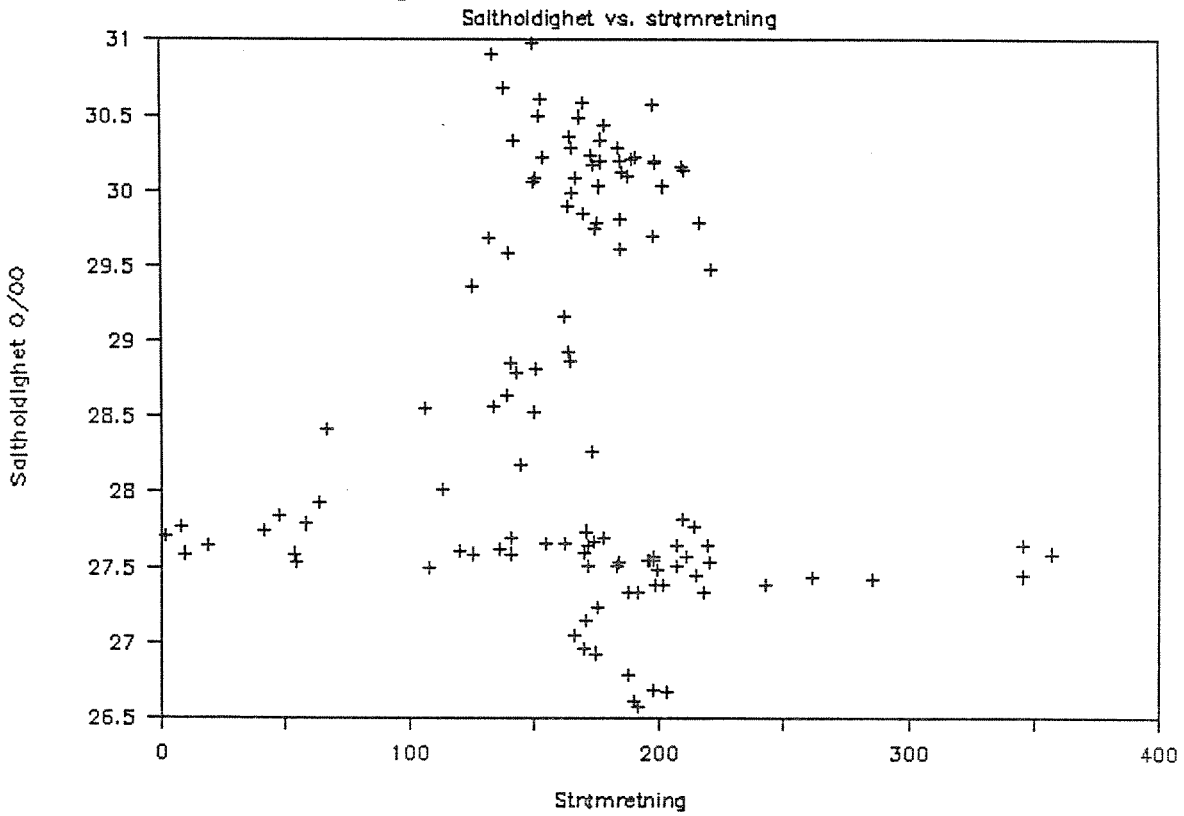
Strømhastighet østkomponent



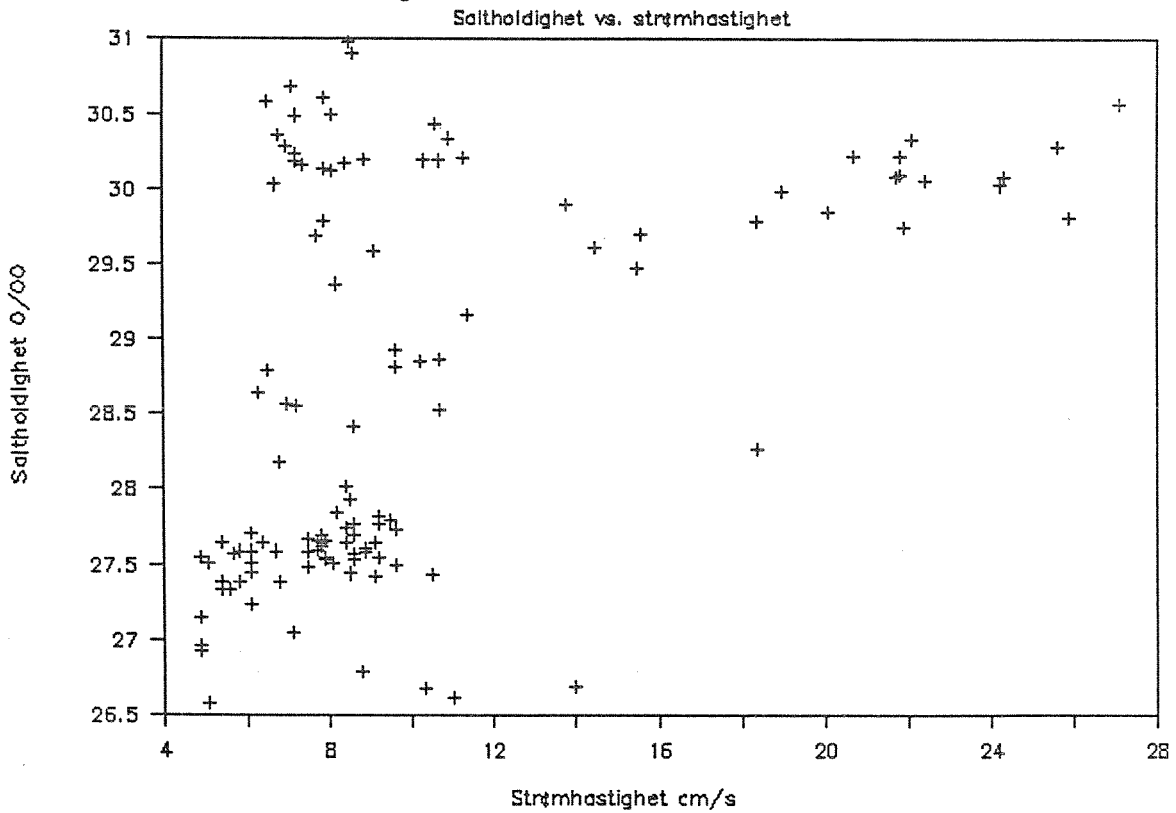
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and Services A/S

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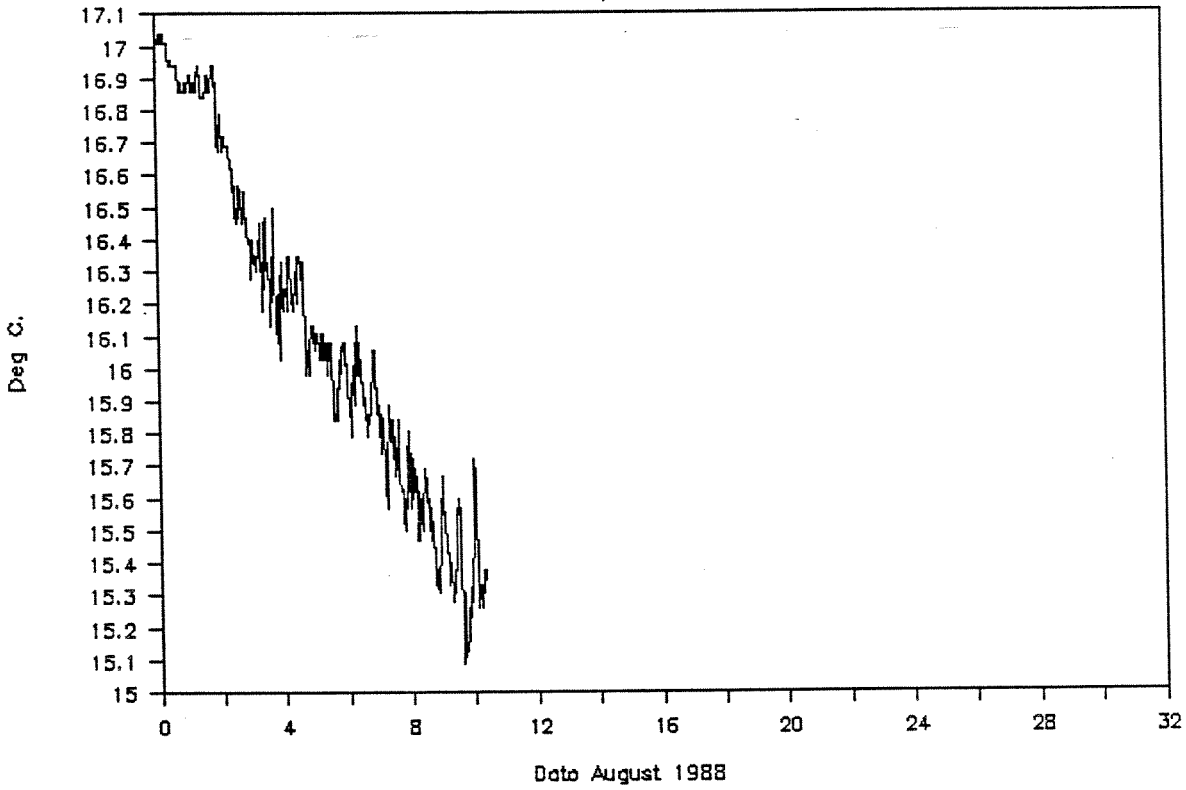


Missingen 10 m. November 1988



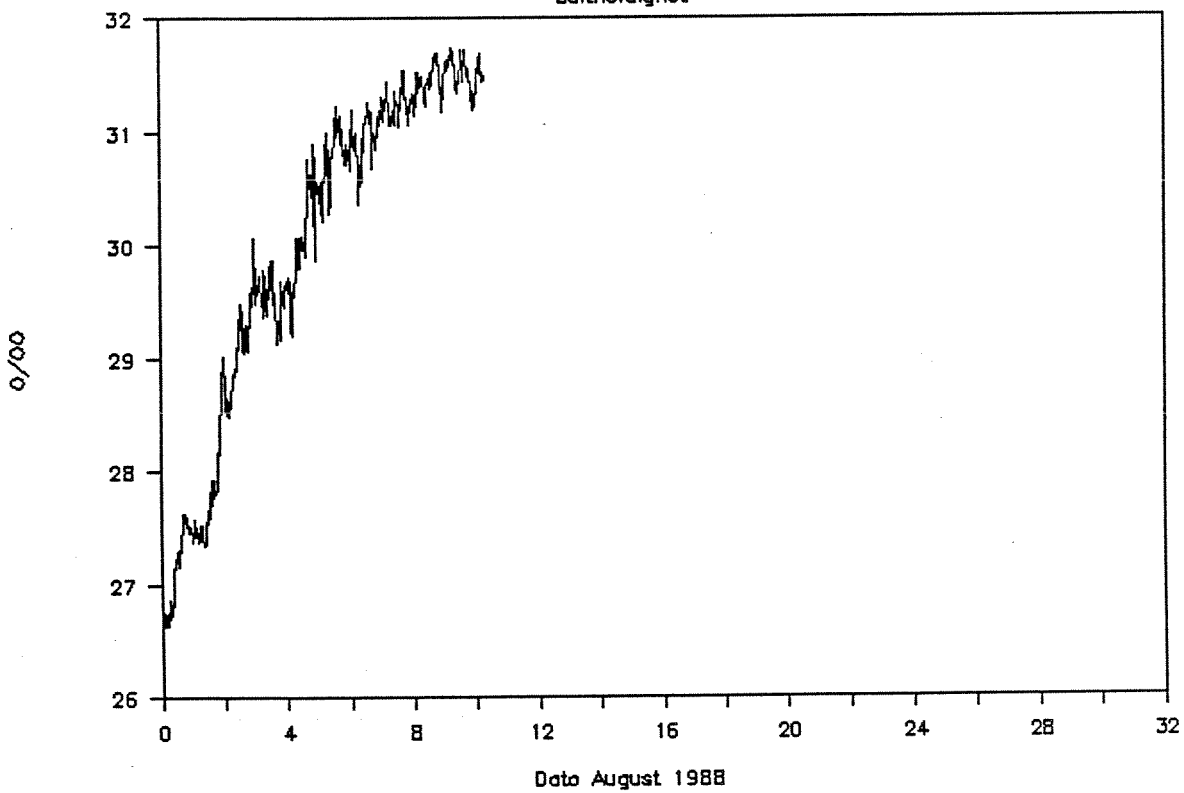
Missingene 20 m.

Temperatur



Missingene 20 m.

Saltholdighet

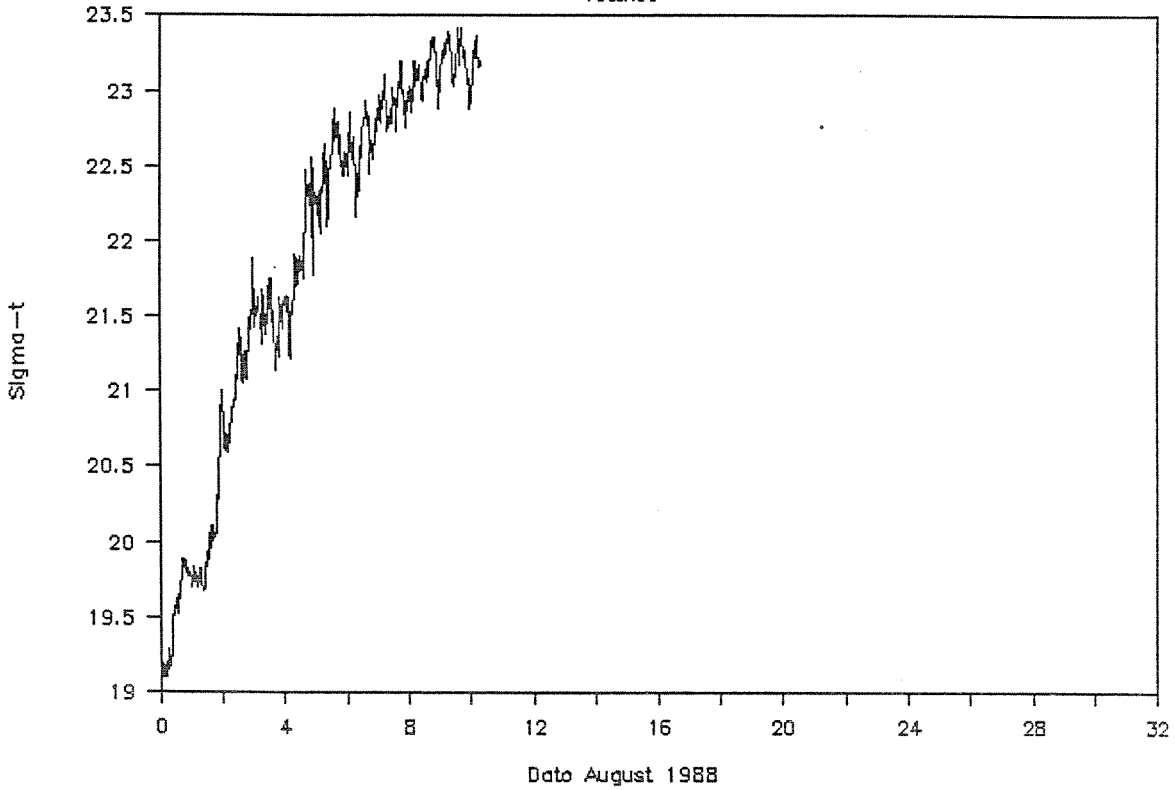


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and Services A/S

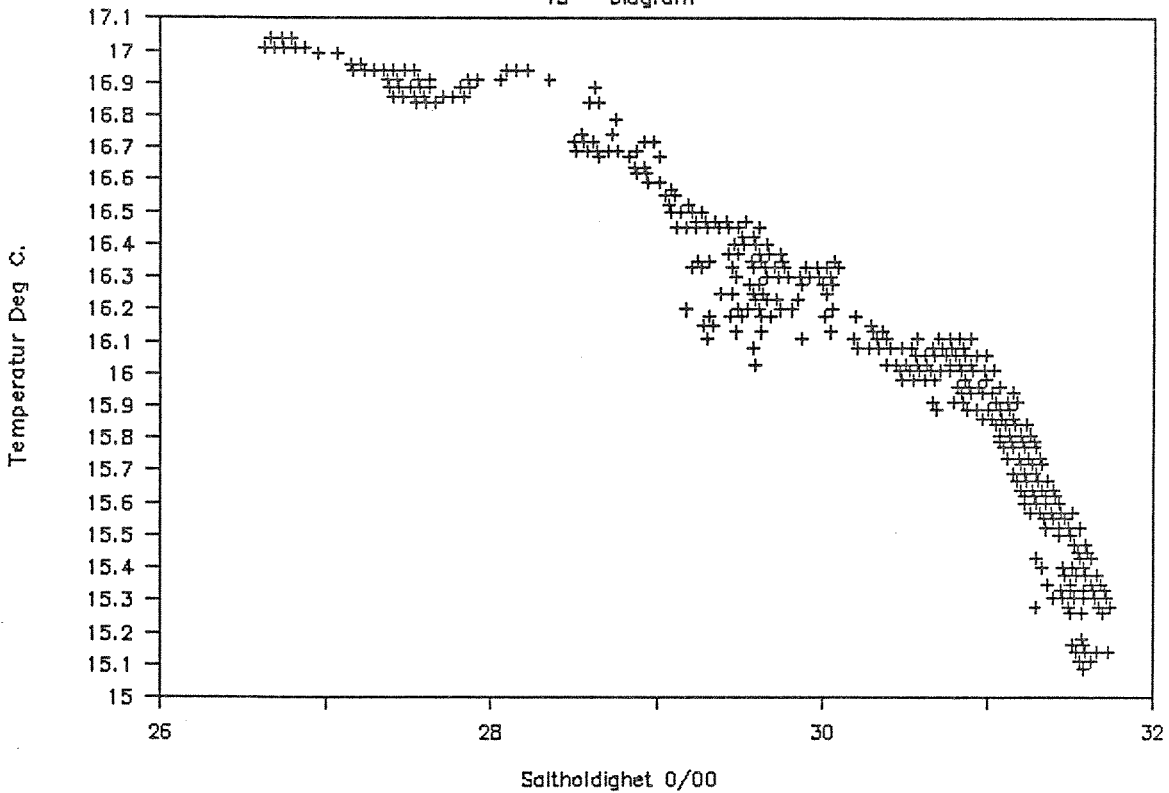
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Tetthet



Missingene 20 m. August 1988

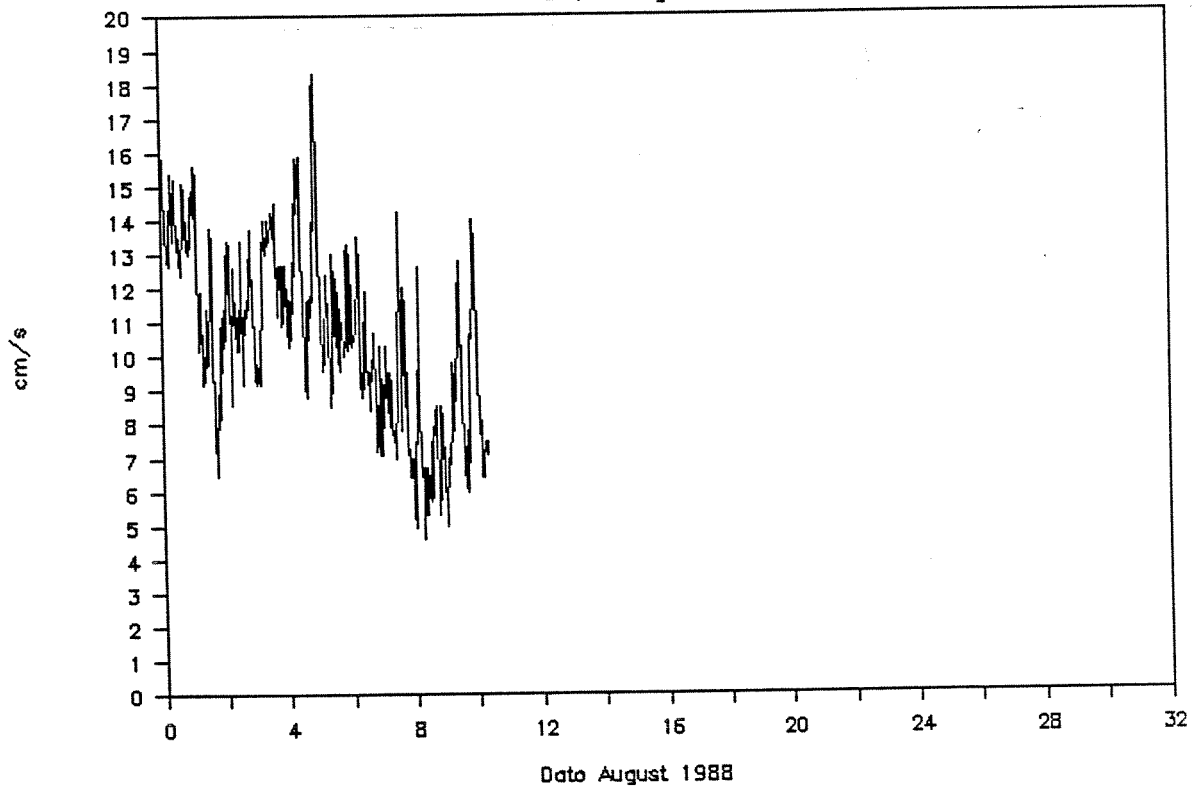
TS - Diagram



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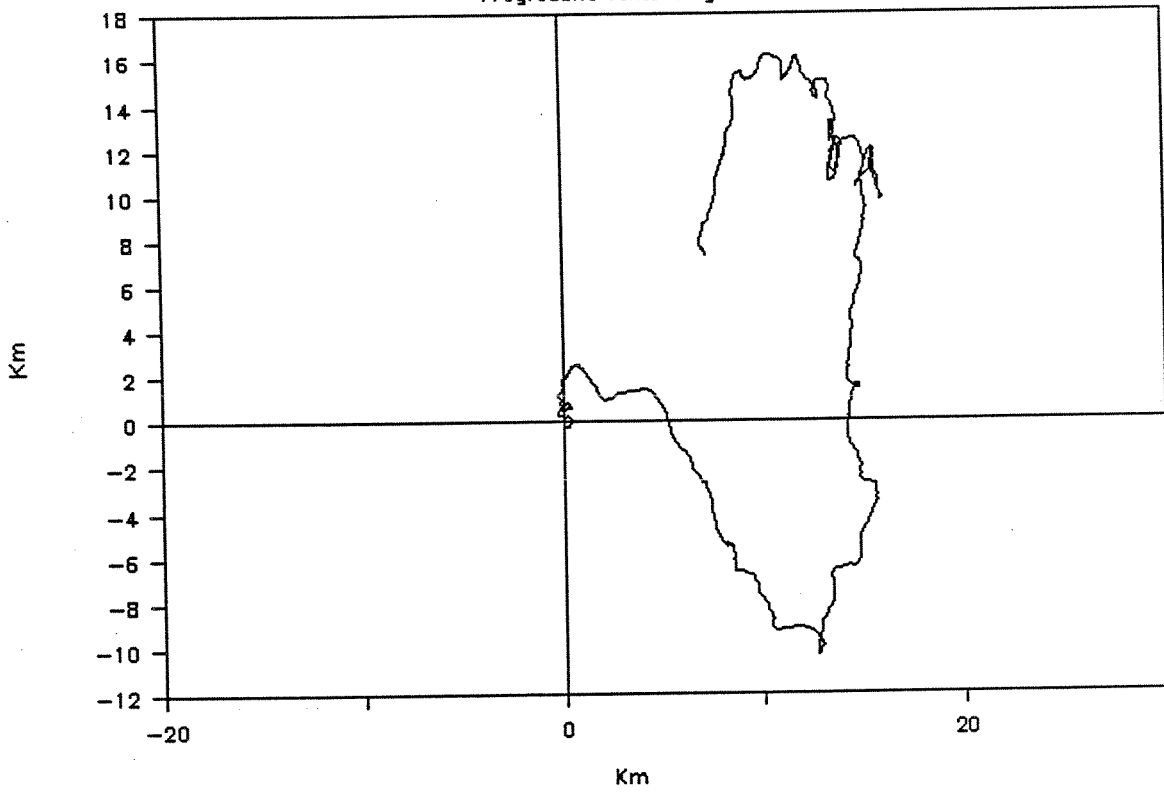
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Strømhastighet



Missingene 20 m. August 1988

Progressivt vektordiagram

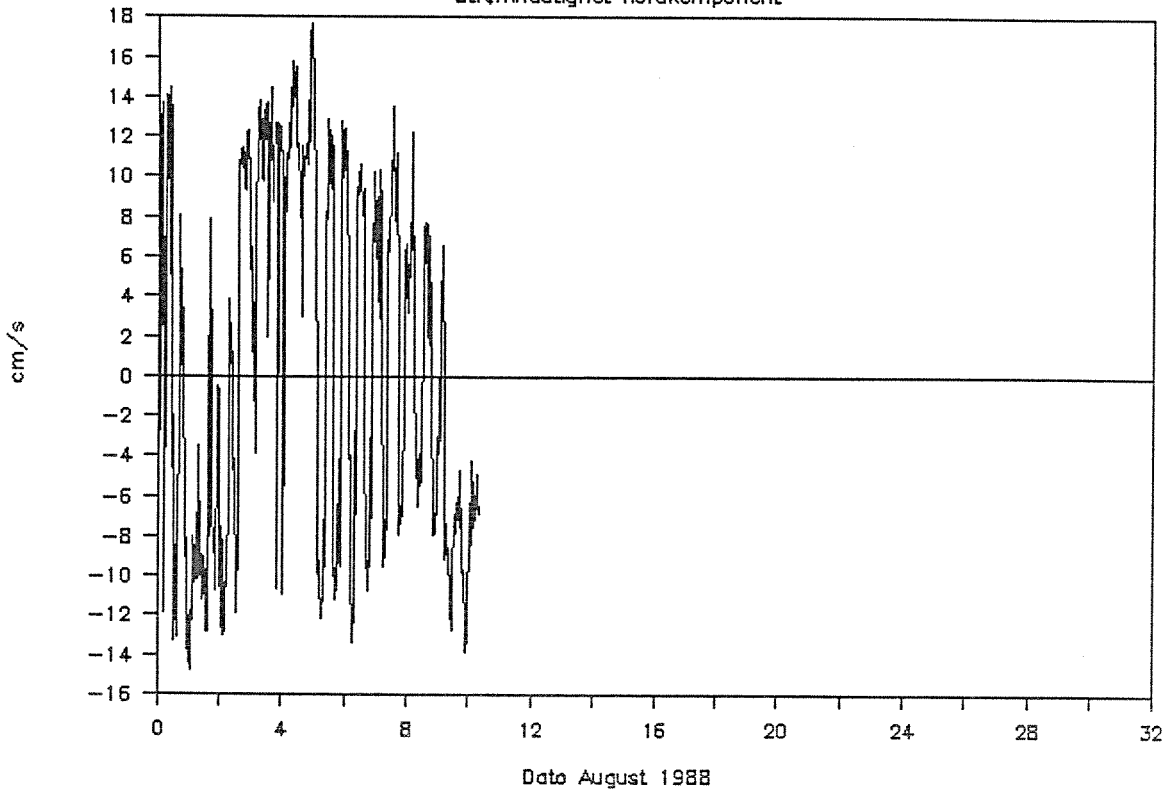


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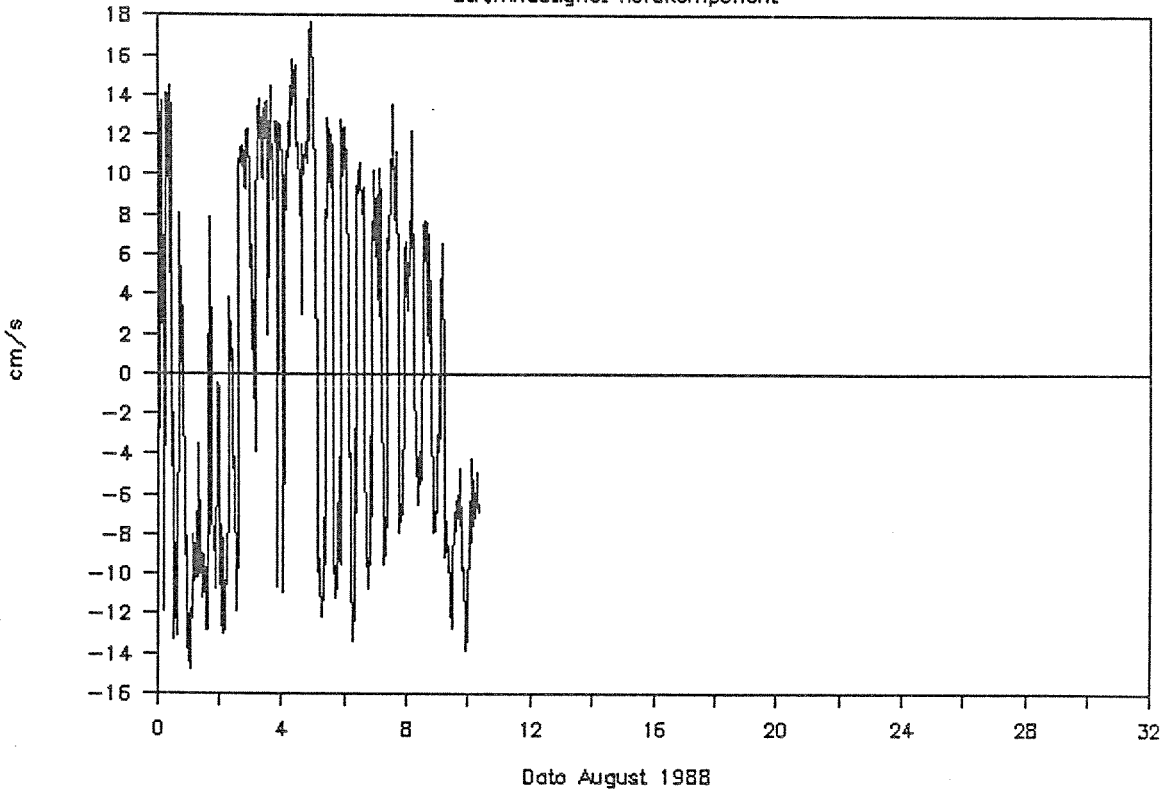
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Strømhastighet nordkomponent



Missingene 20 m.

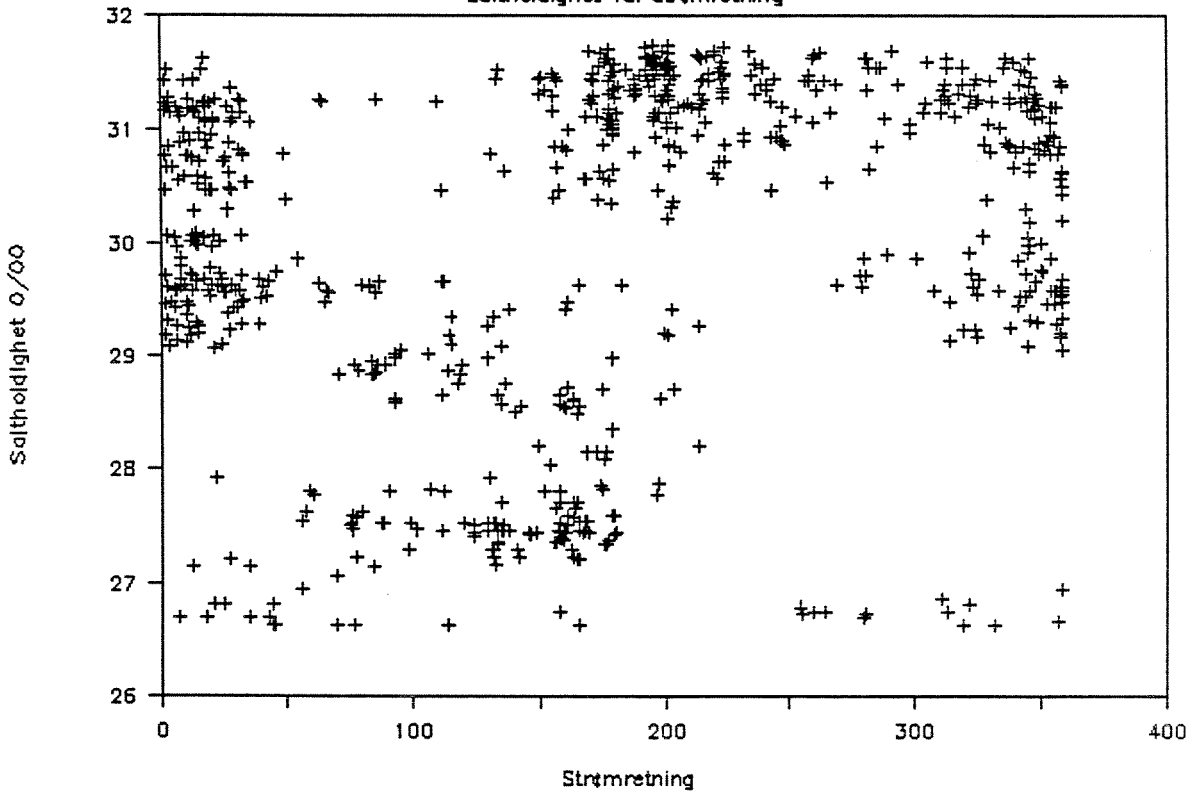
Strømhastighet nordkomponent



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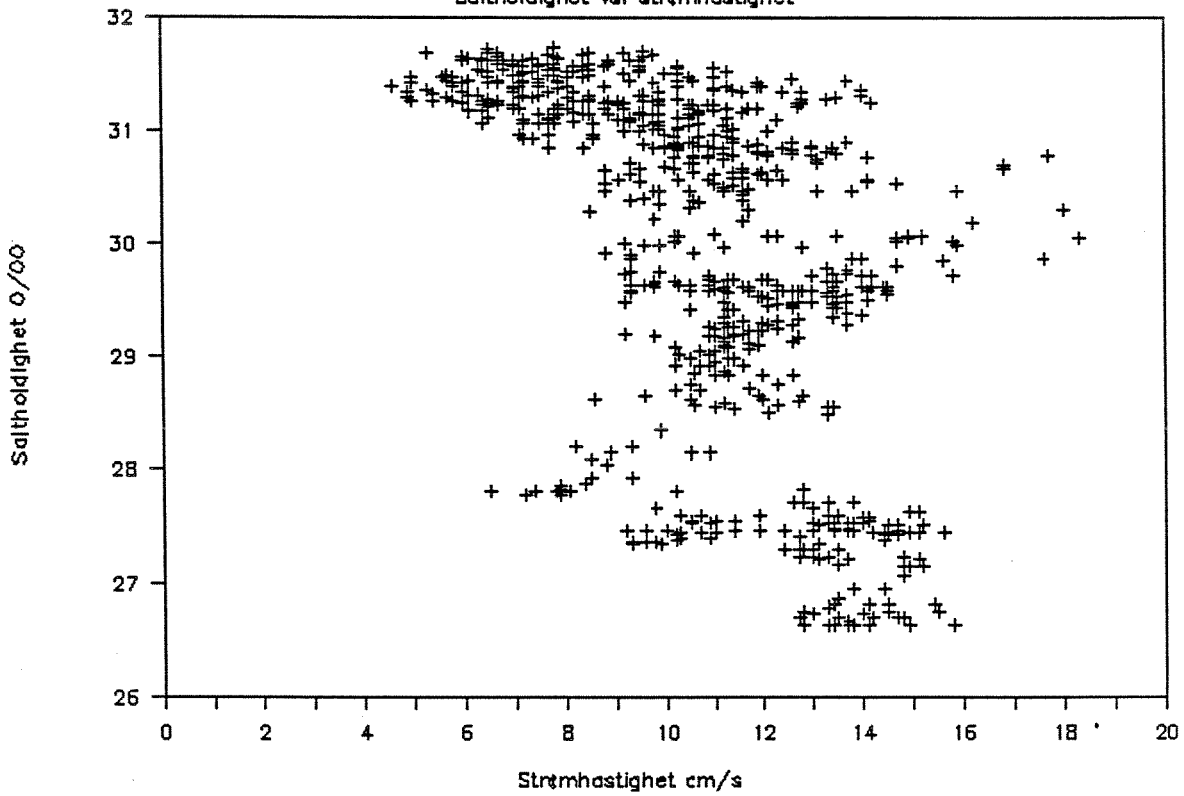
Missingene 20 m. August 1988

Saltholdighet vs. strømretning



Missingene 20 m. August 1988

Saltholdighet vs. strømhastighet

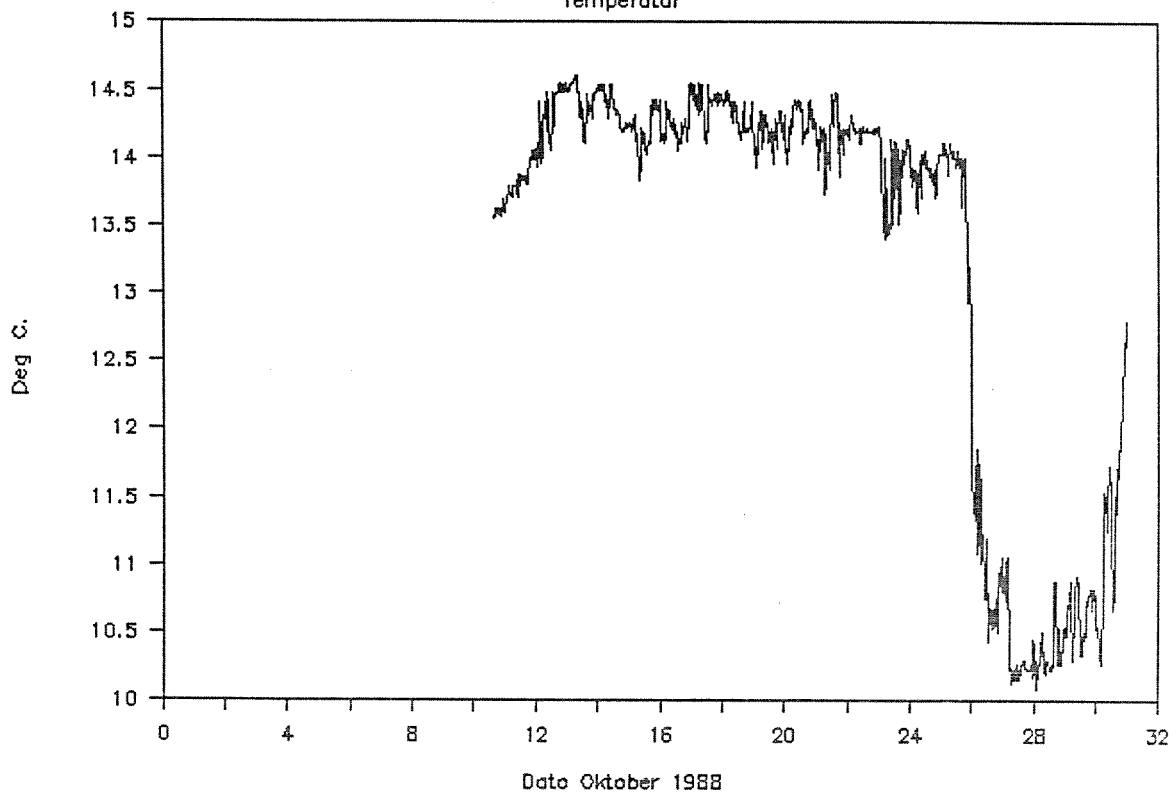


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and Services A/S

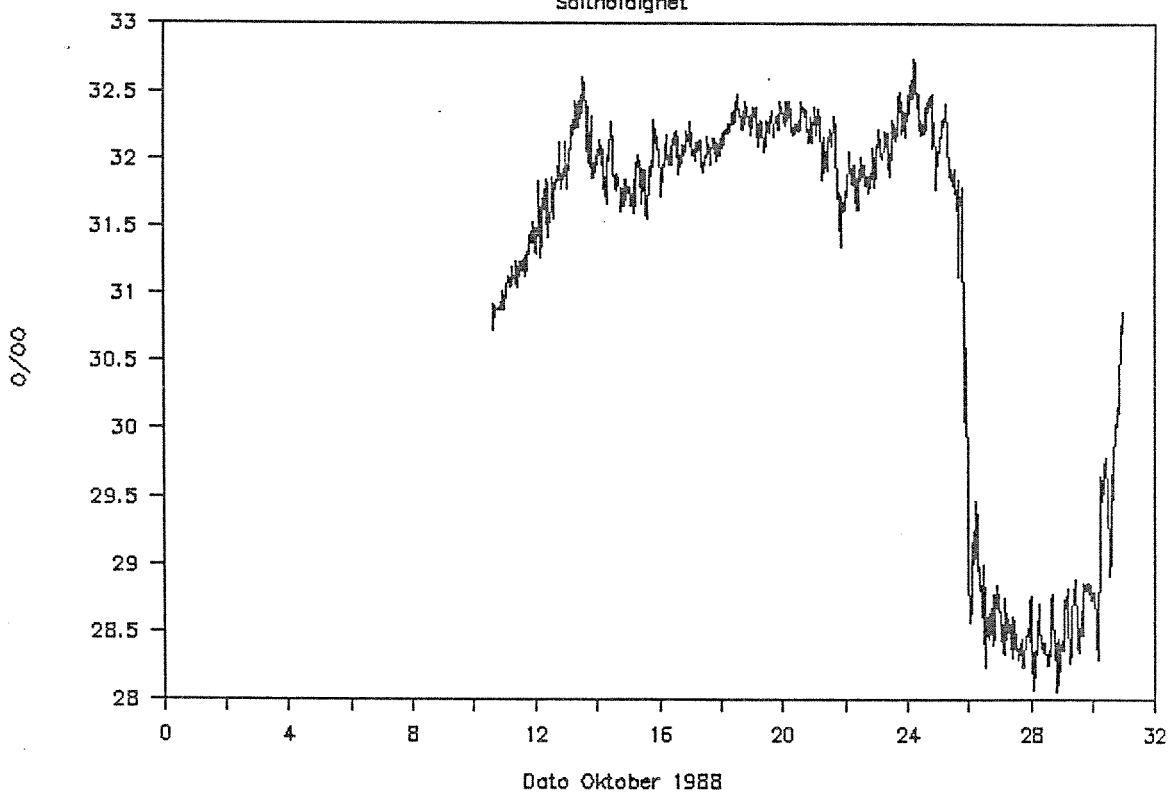
Missingen 20 m.

Temperatur



Missingen 20 m.

Saltholdighet

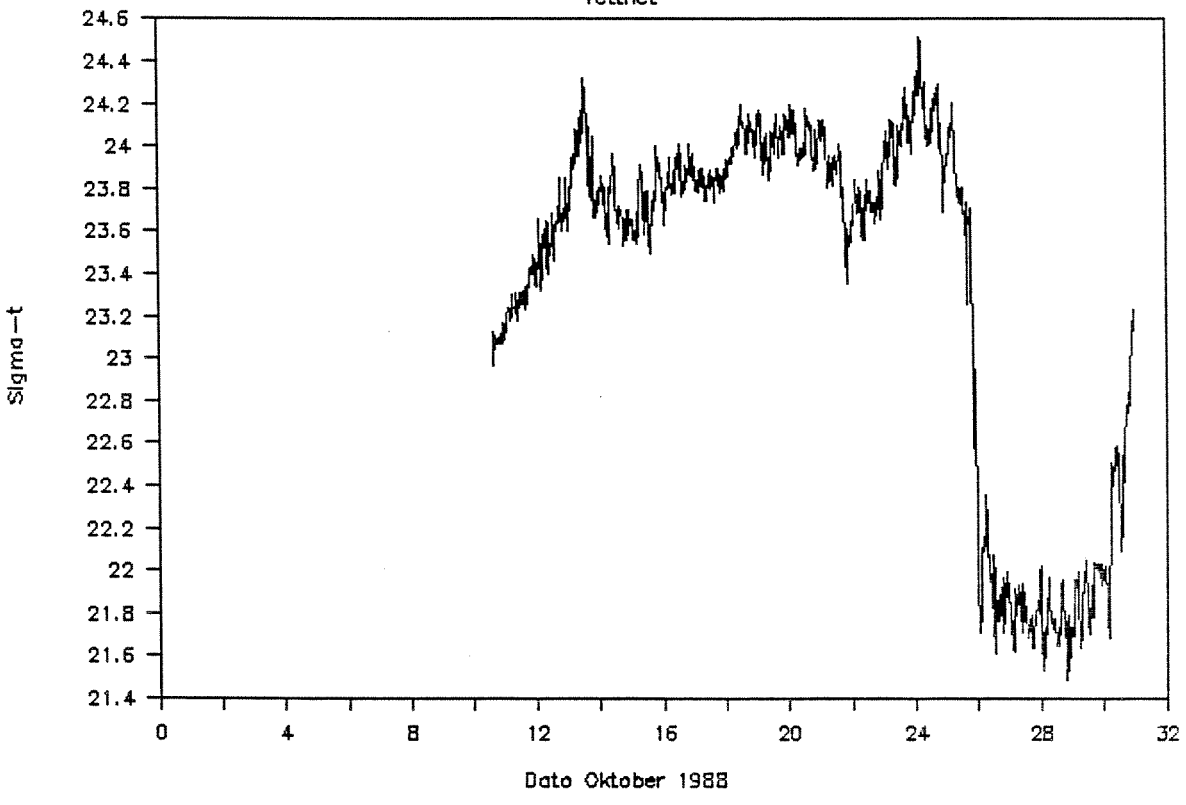


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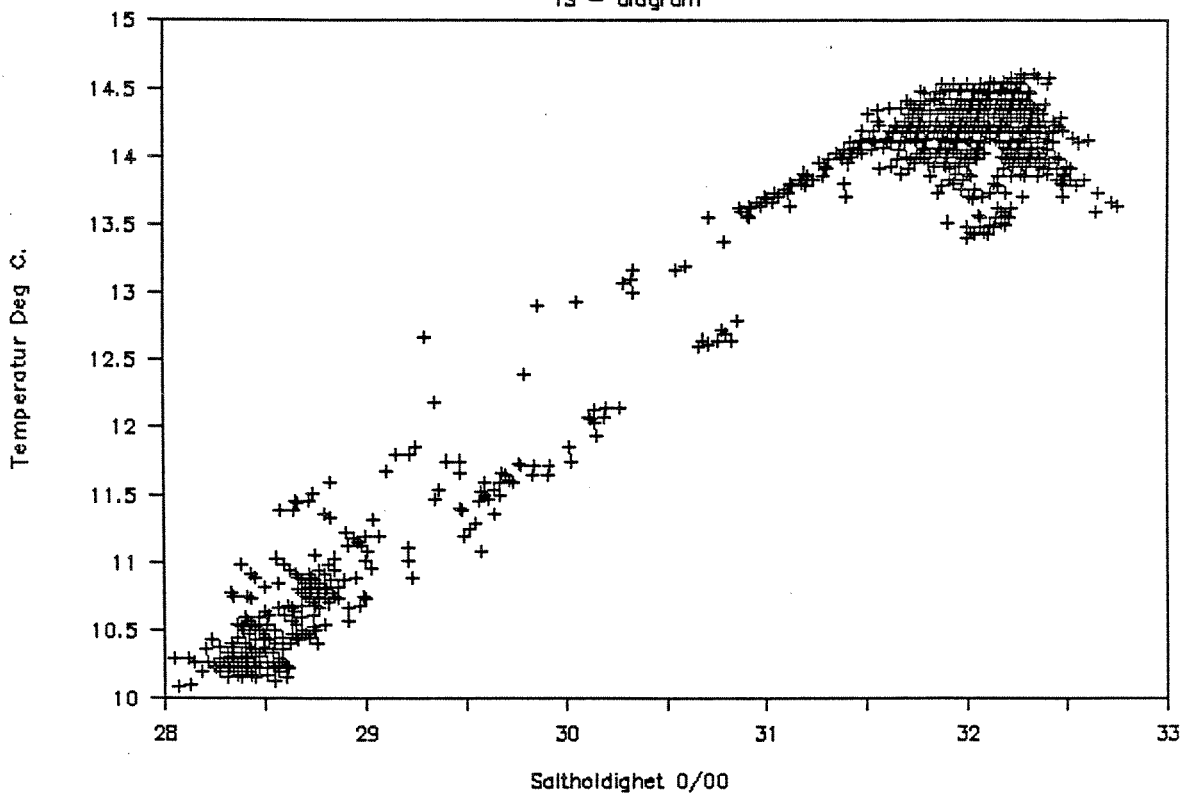
Missingen 20 m.

Tetthet



Missingen 20 m. Oktober 1988

TS - diagram

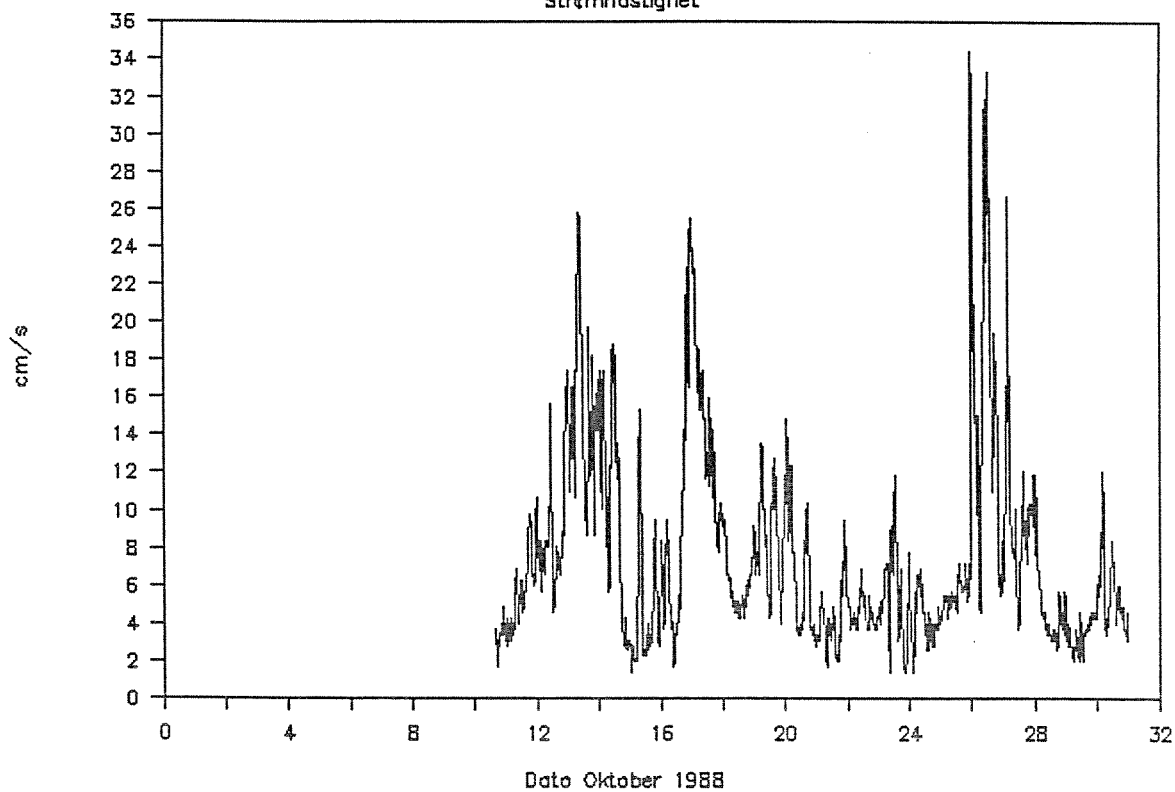


VERITEC

Veritas Offshore Technology and Services A/S

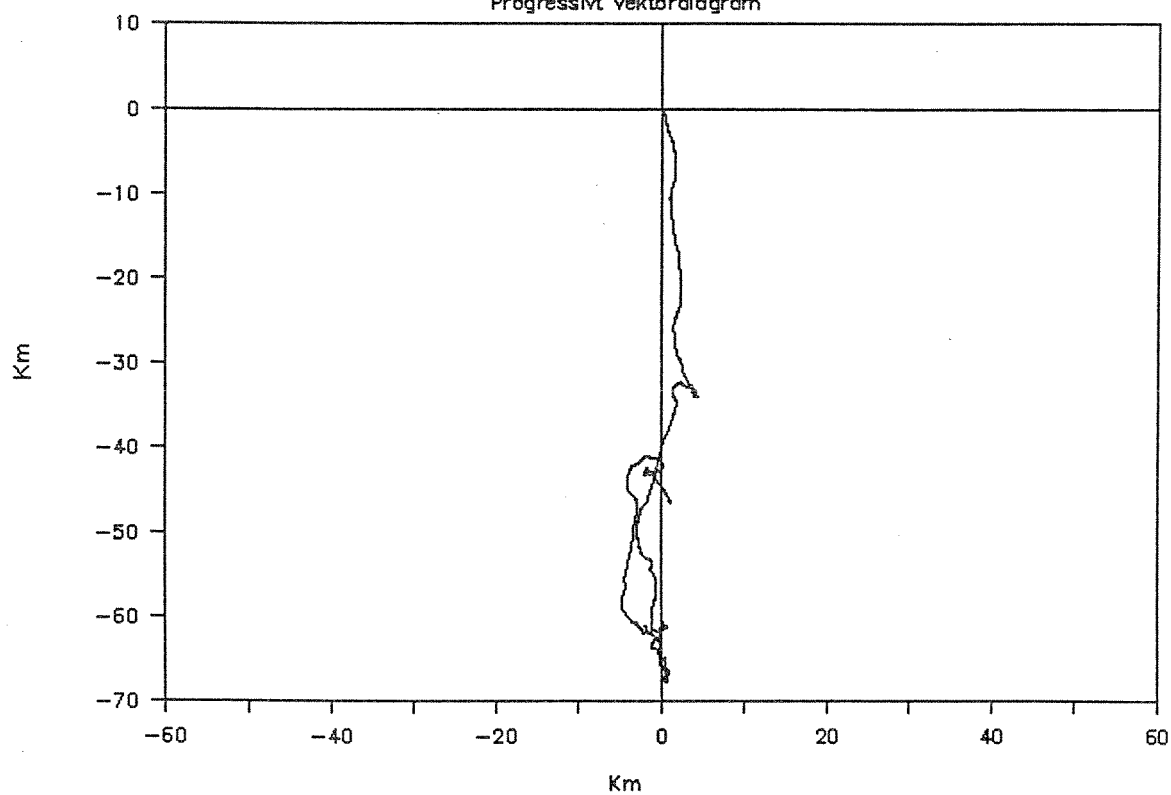
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Strømhastighet



Missingen 20 m. Oktober 1988

Progressivt vektordiagram

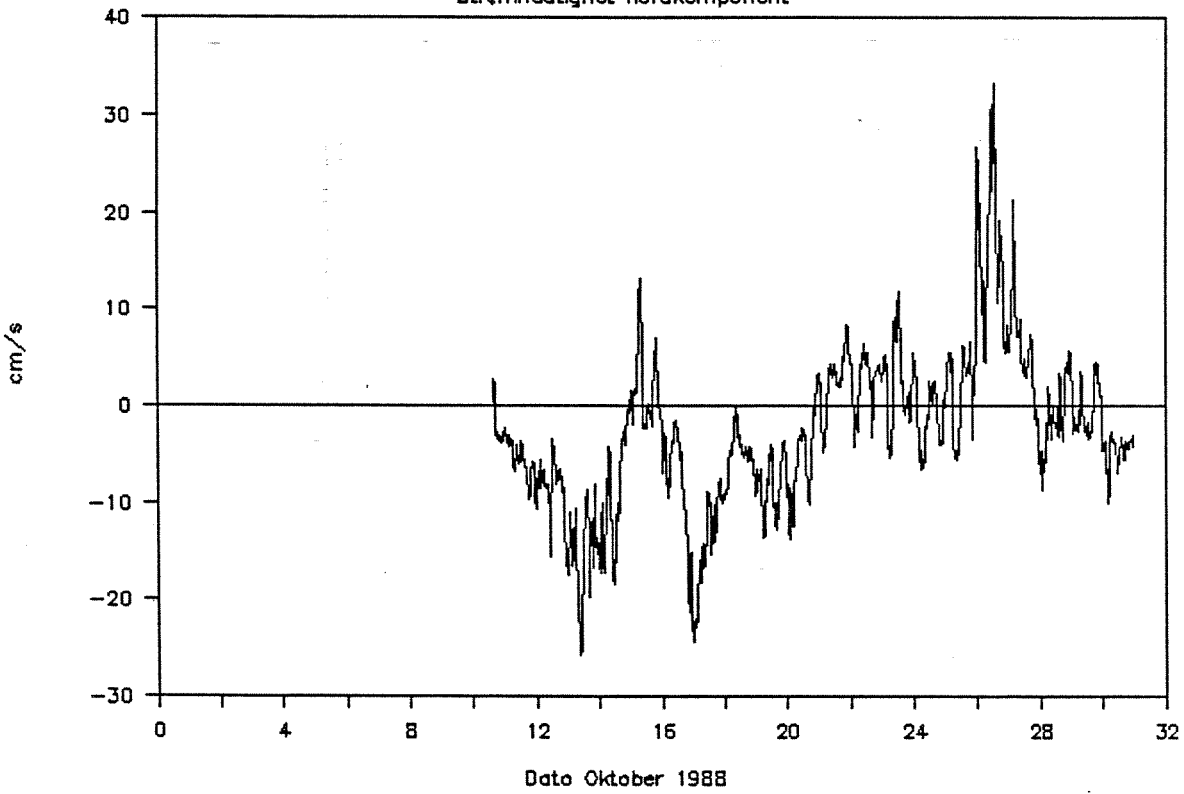


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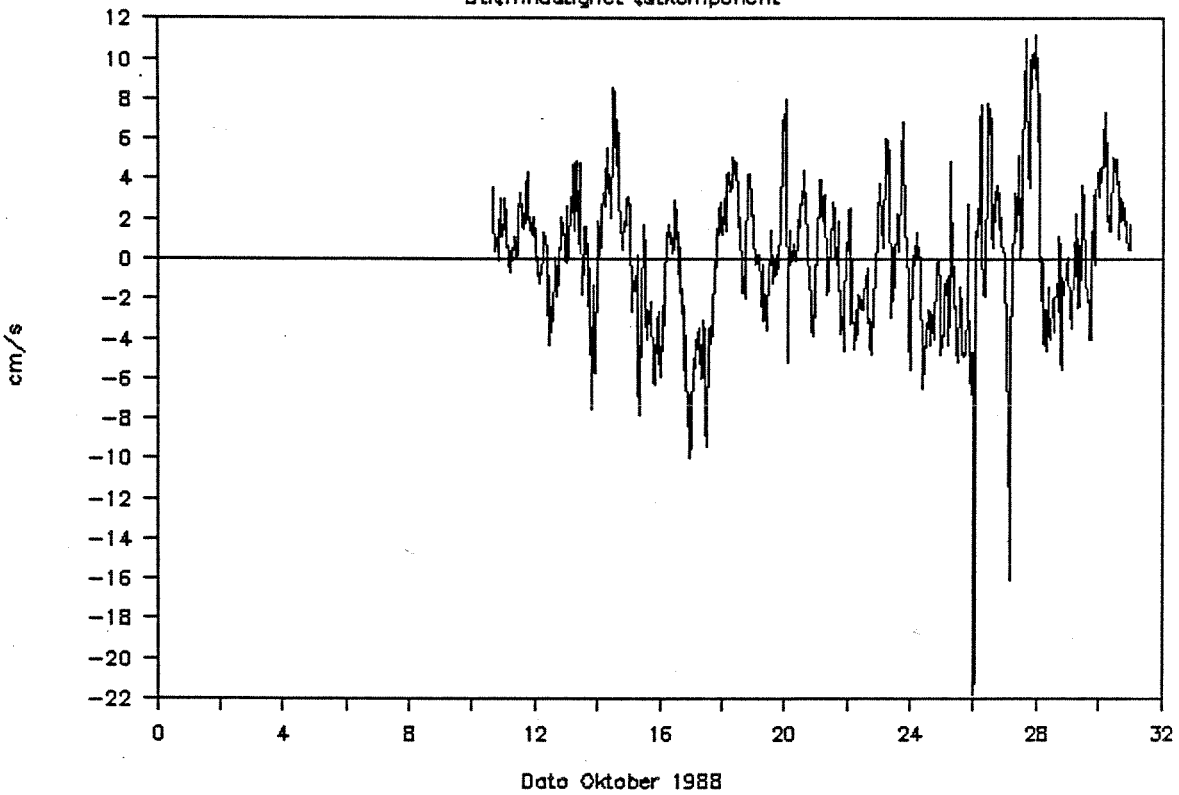
Missingen 20 m.

Strømhastighet nordkomponent



Missingen 20 m.

Strømhastighet østkomponent

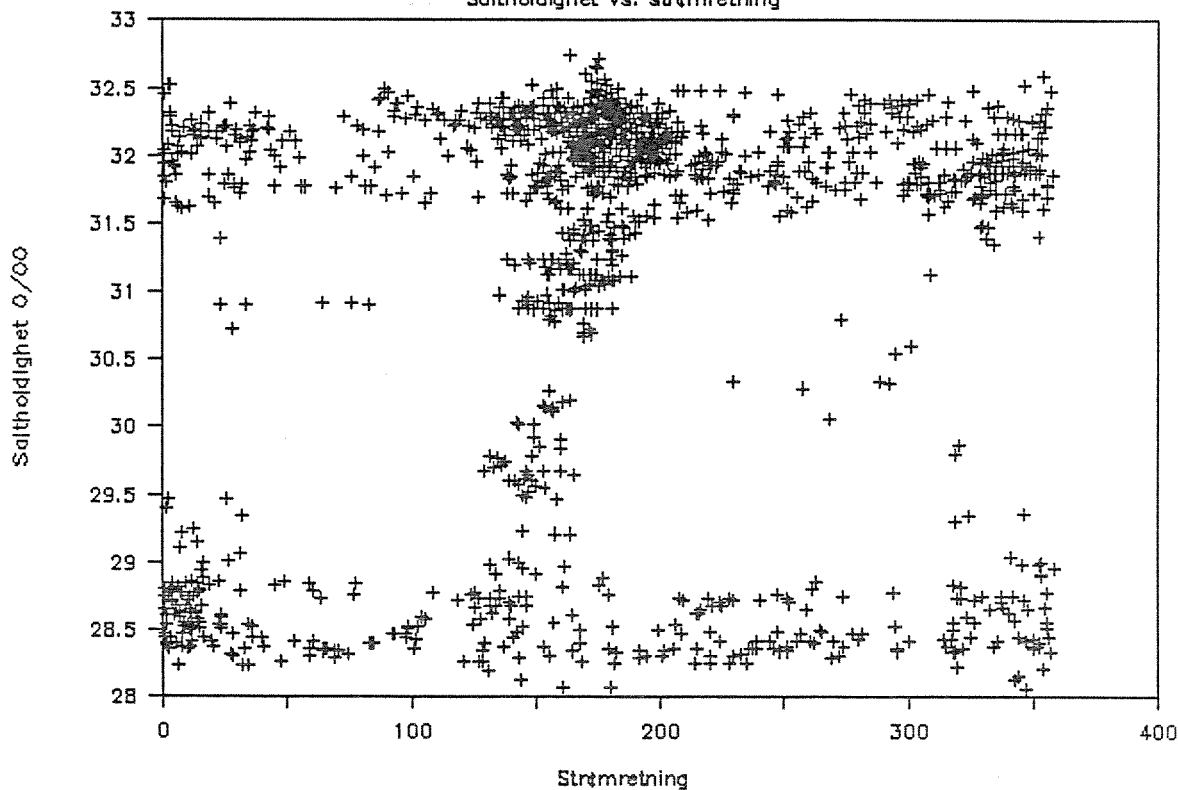


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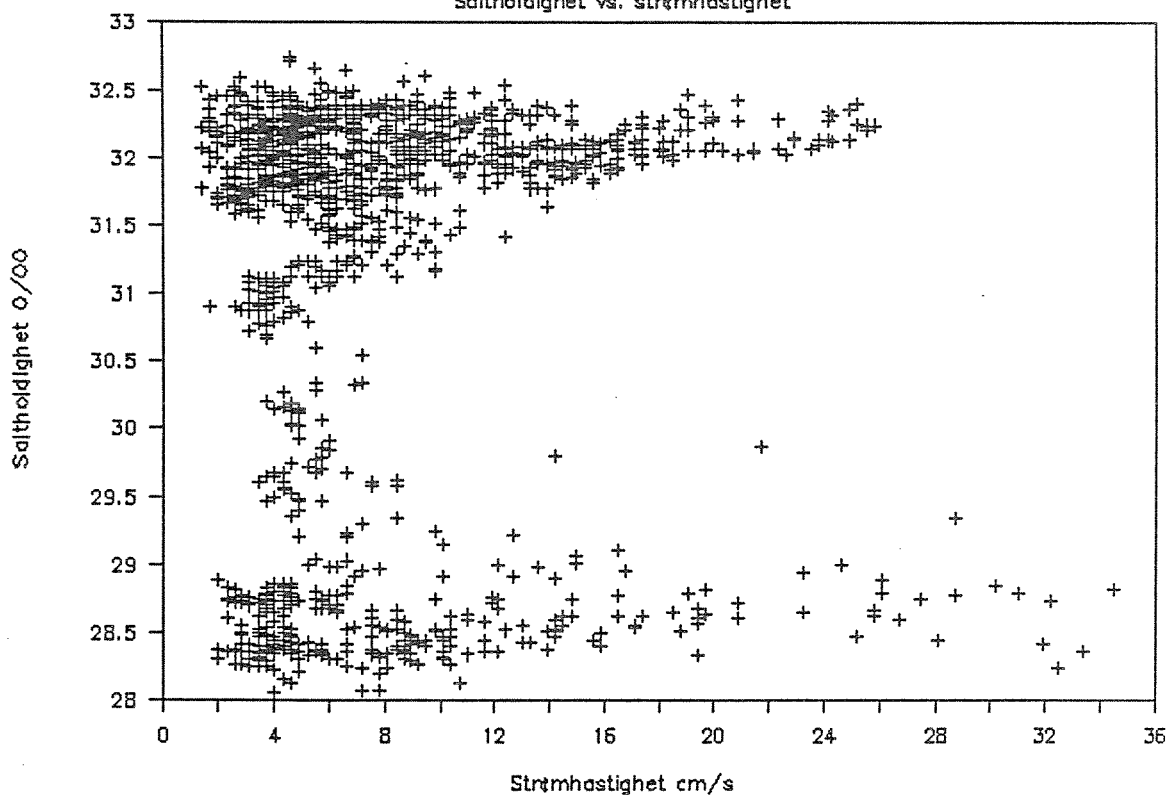
Missingen 20 m. Oktober 1988

Saltholdighet vs. strømretning



Missingen 20 m. Oktober 1988

Saltholdighet vs. strømhastighet

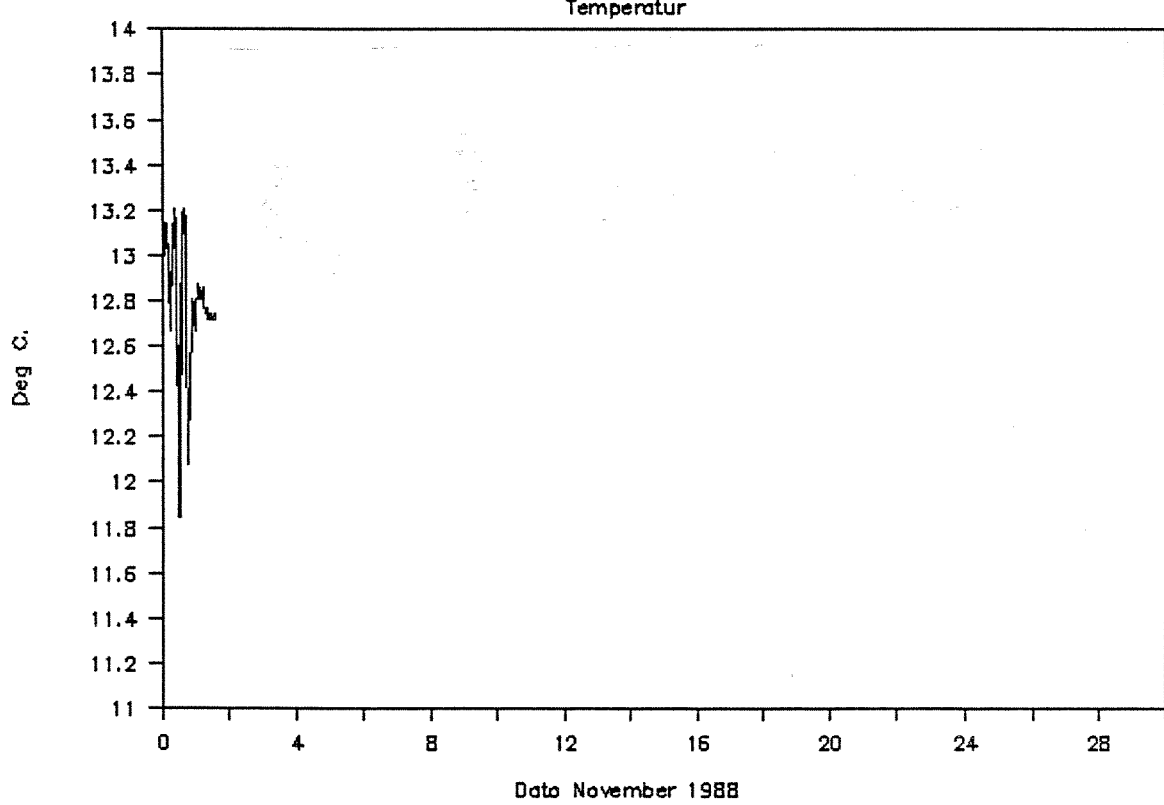


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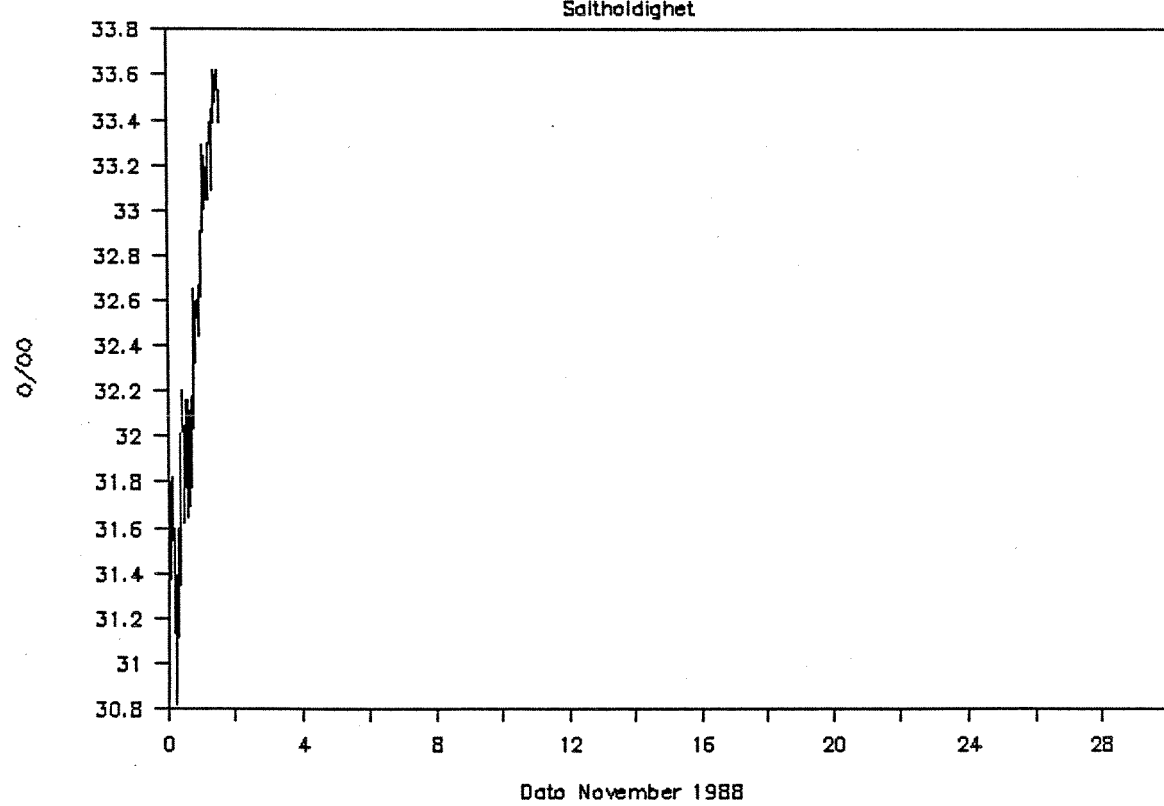
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Temperatur



Missingen 20 m.

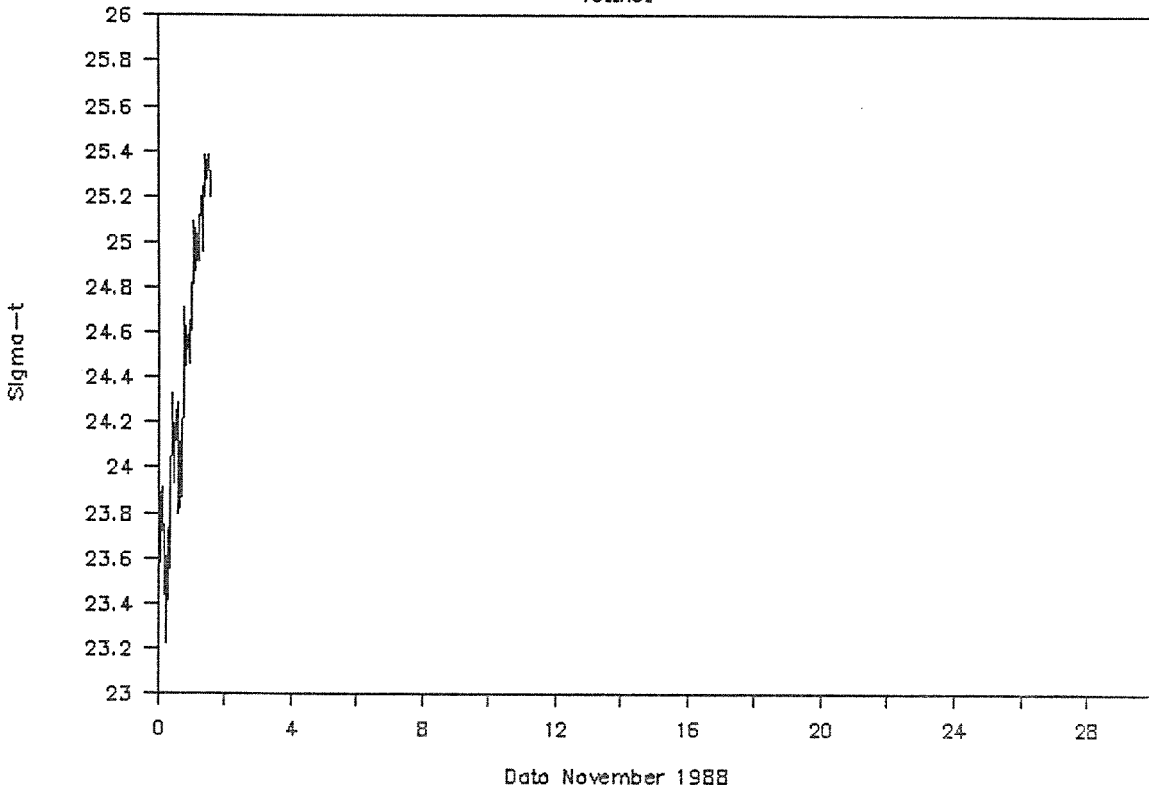
Saltholdighet



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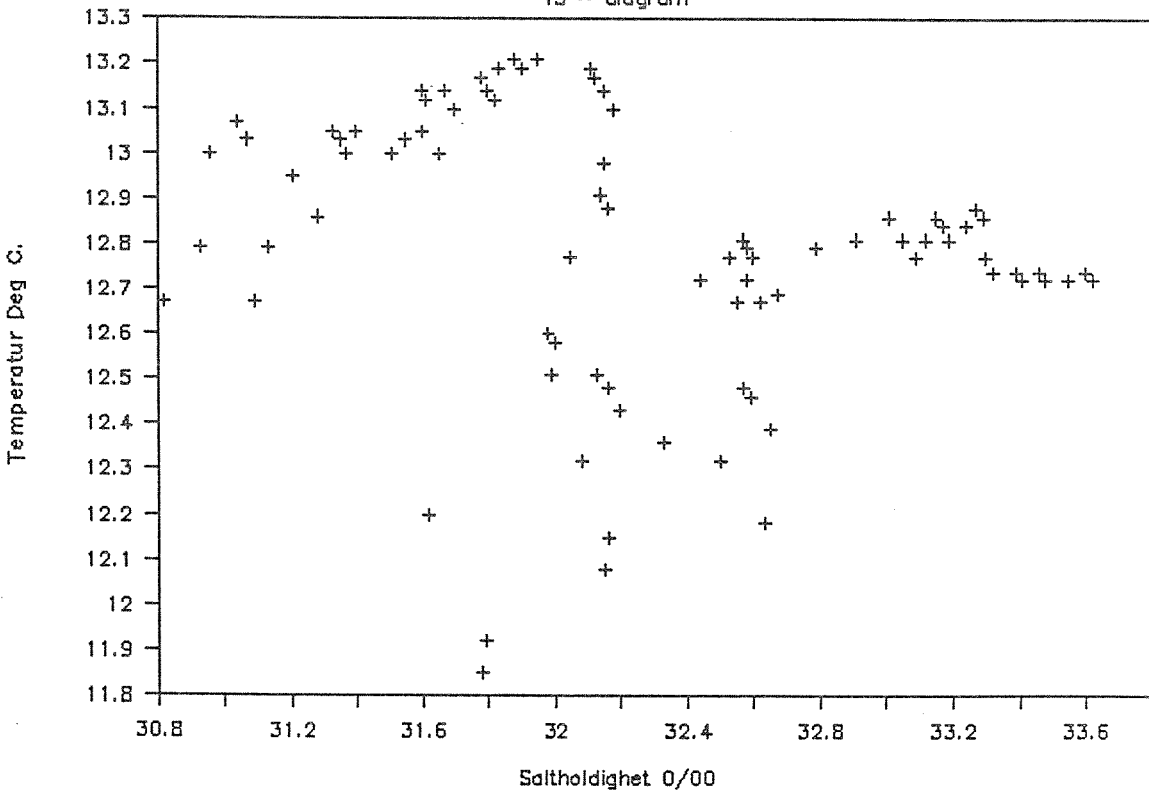
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Tetthet



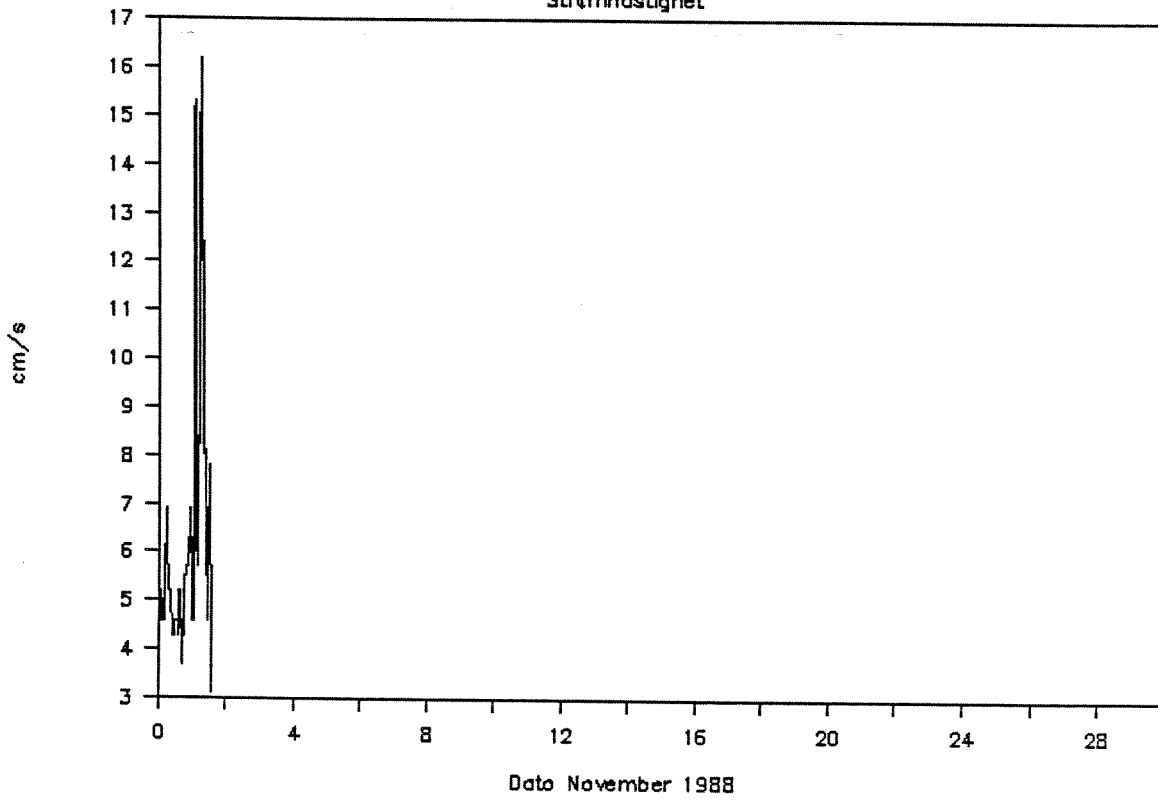
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TS - diagram



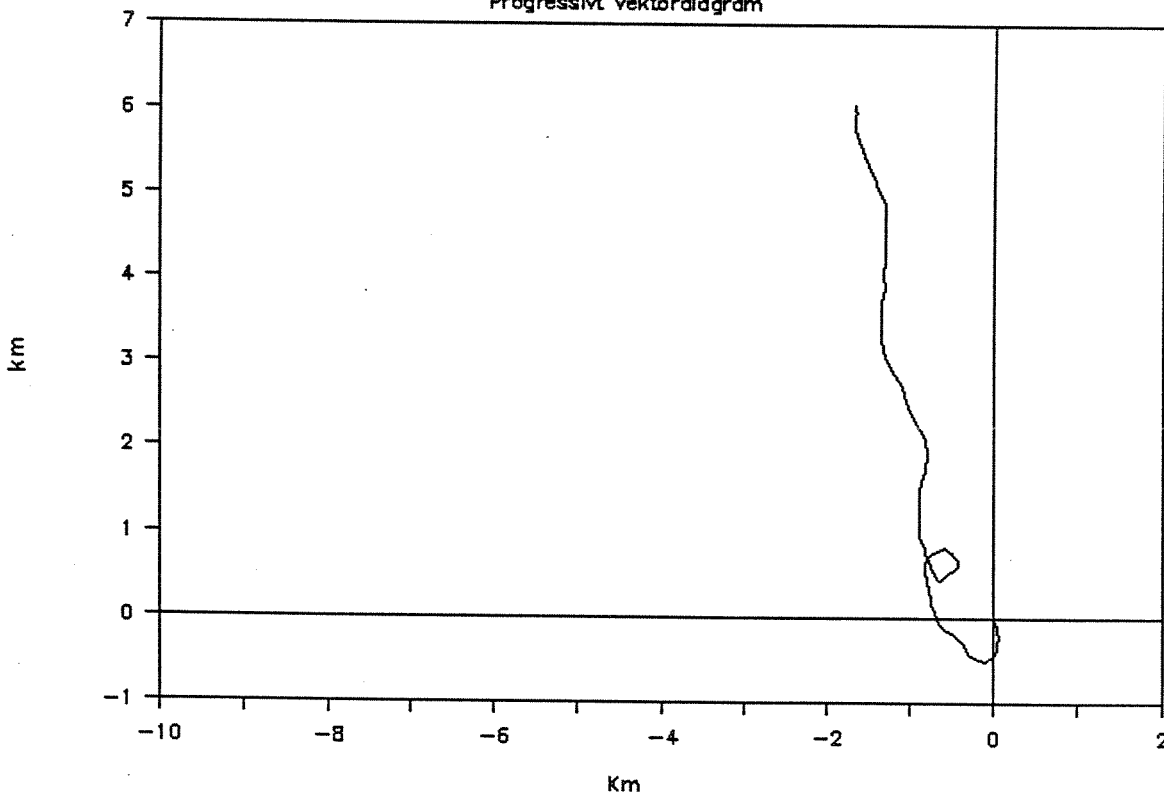
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Strømhastighet



Missingen 20 m. November 1988

Progressivt vektordiagram

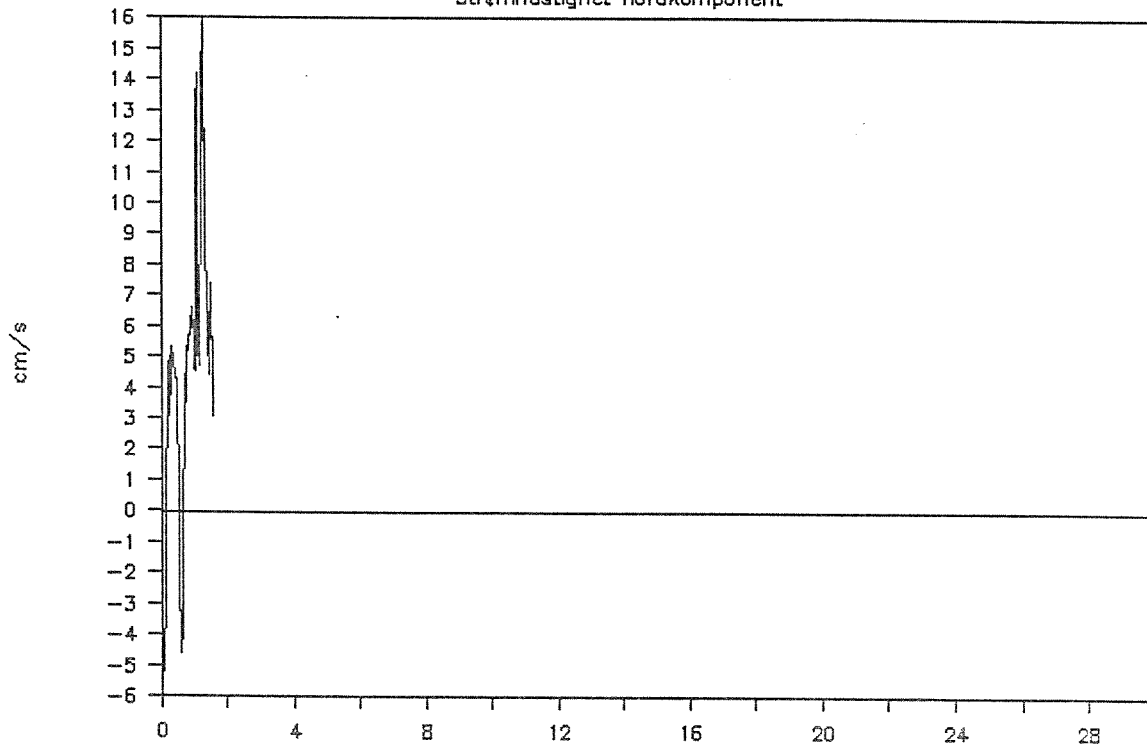


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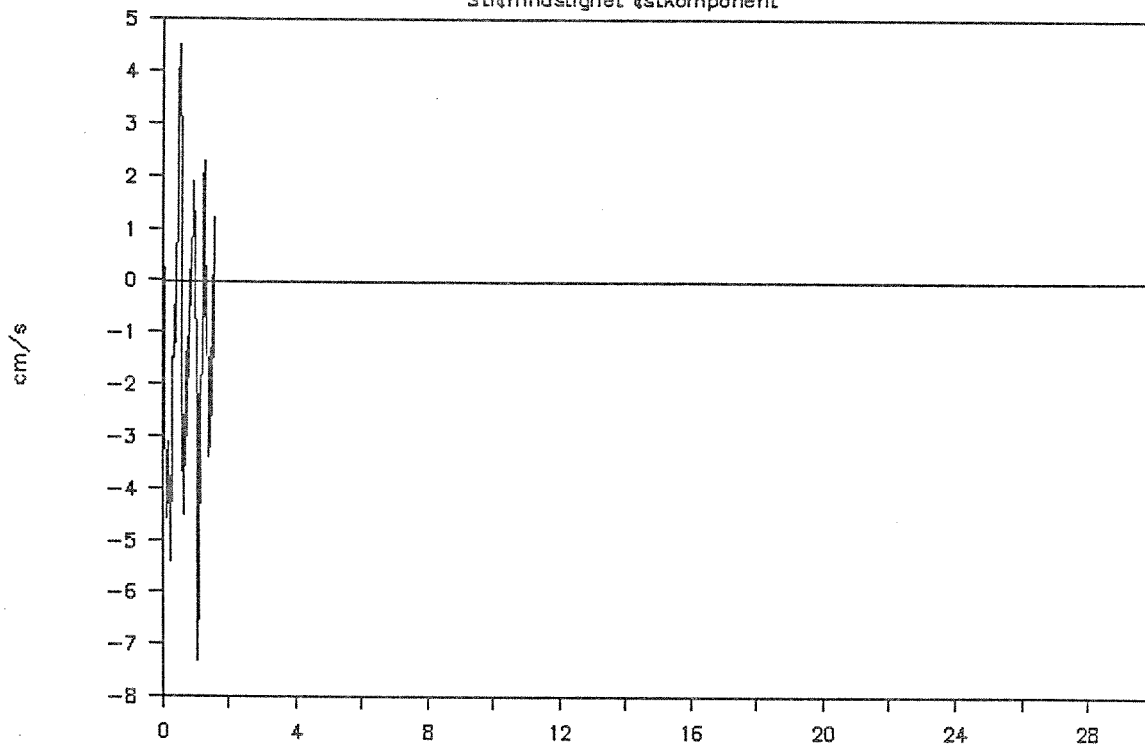
Missingen 20 m.

Strømhastighet nordkomponent



Missingen 20 m.

Strømhastighet østkomponent

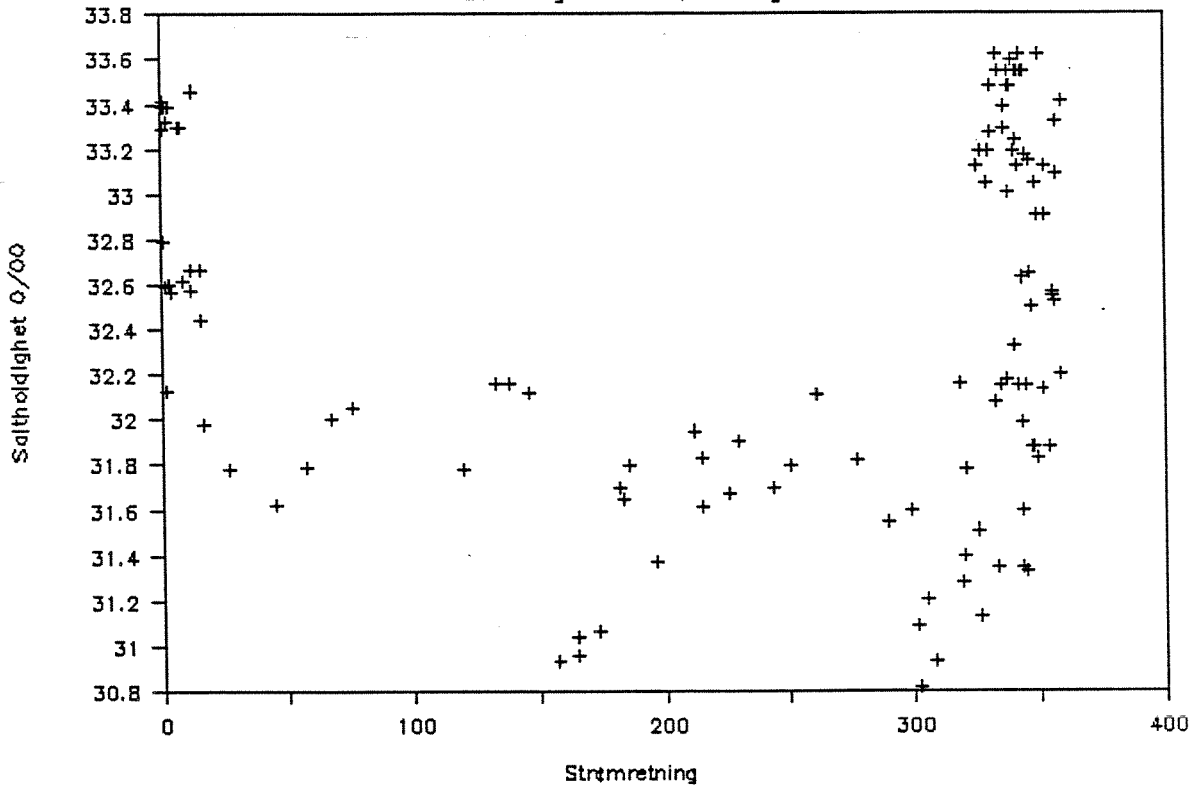


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and Services A/S

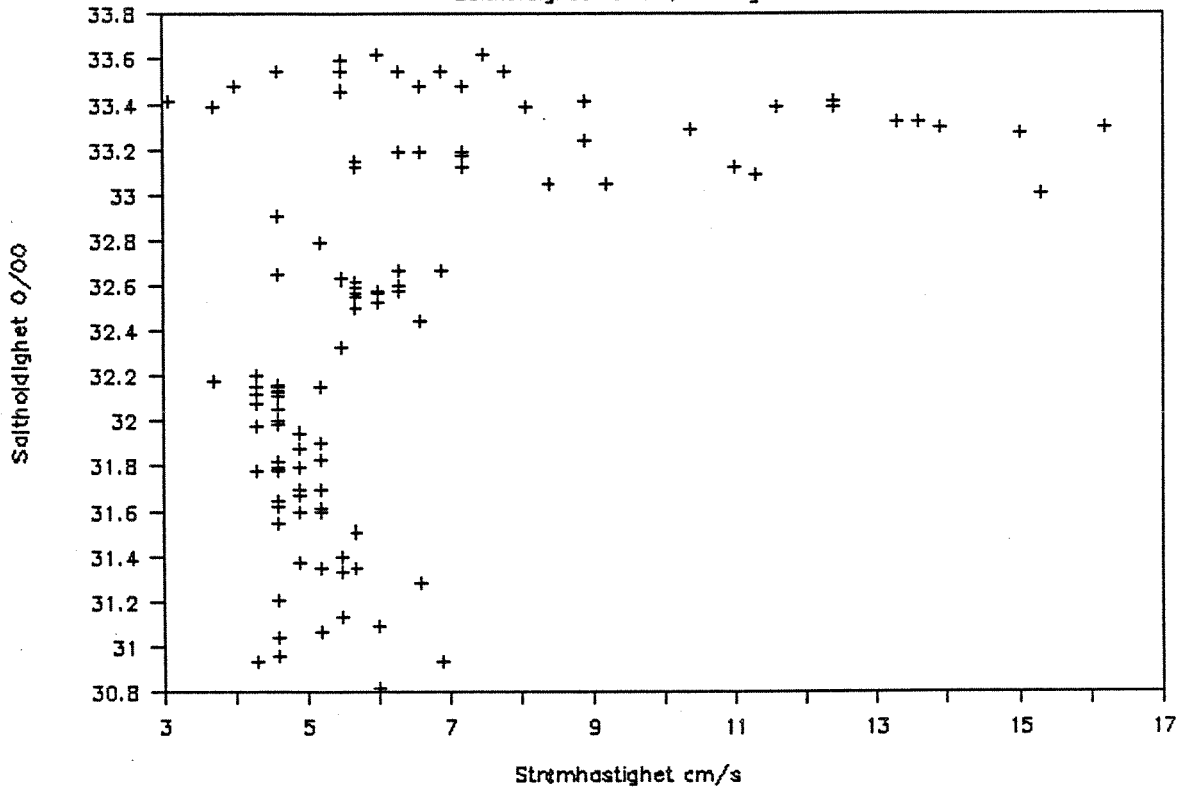
Missingen 20 m. November 1988

Saltholdighet vs. strømretning



Missingen 20 m. November 1988

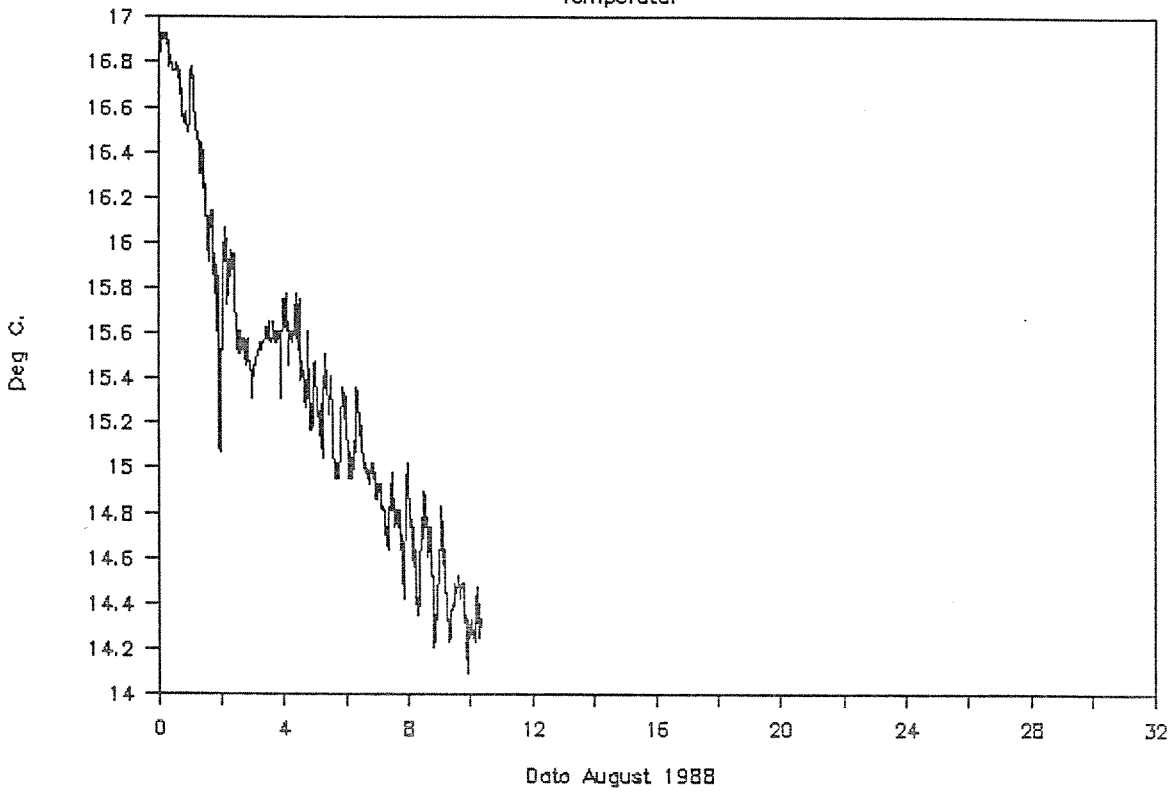
Saltholdighet vs. strømhastighet



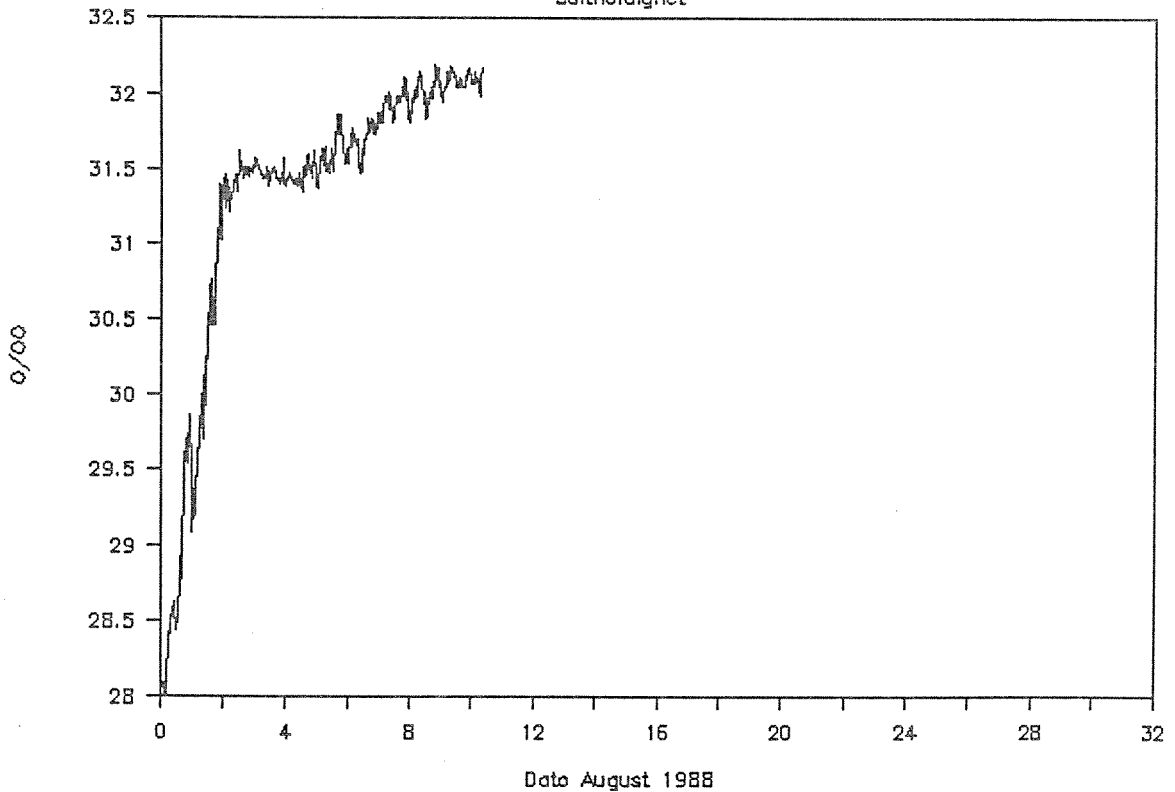
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Missingen 30 m. Temperatur

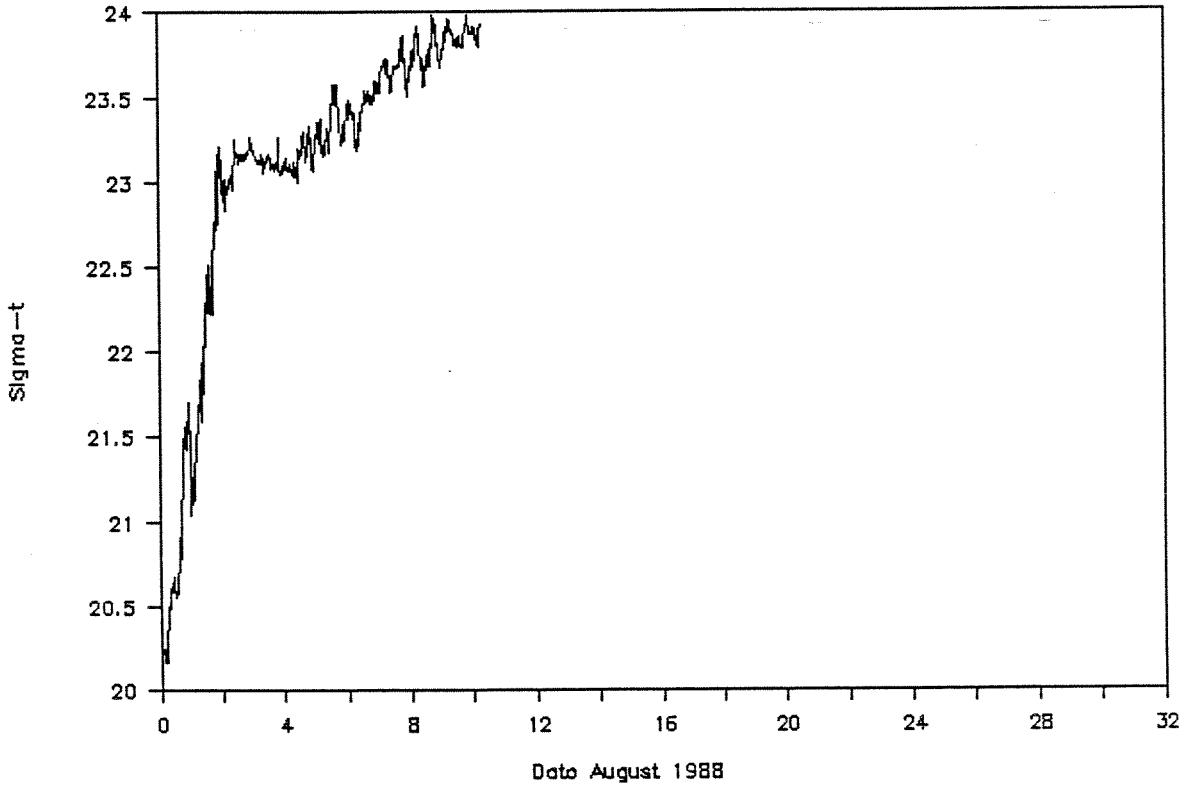


Missingen 30 m. Saltholdighet



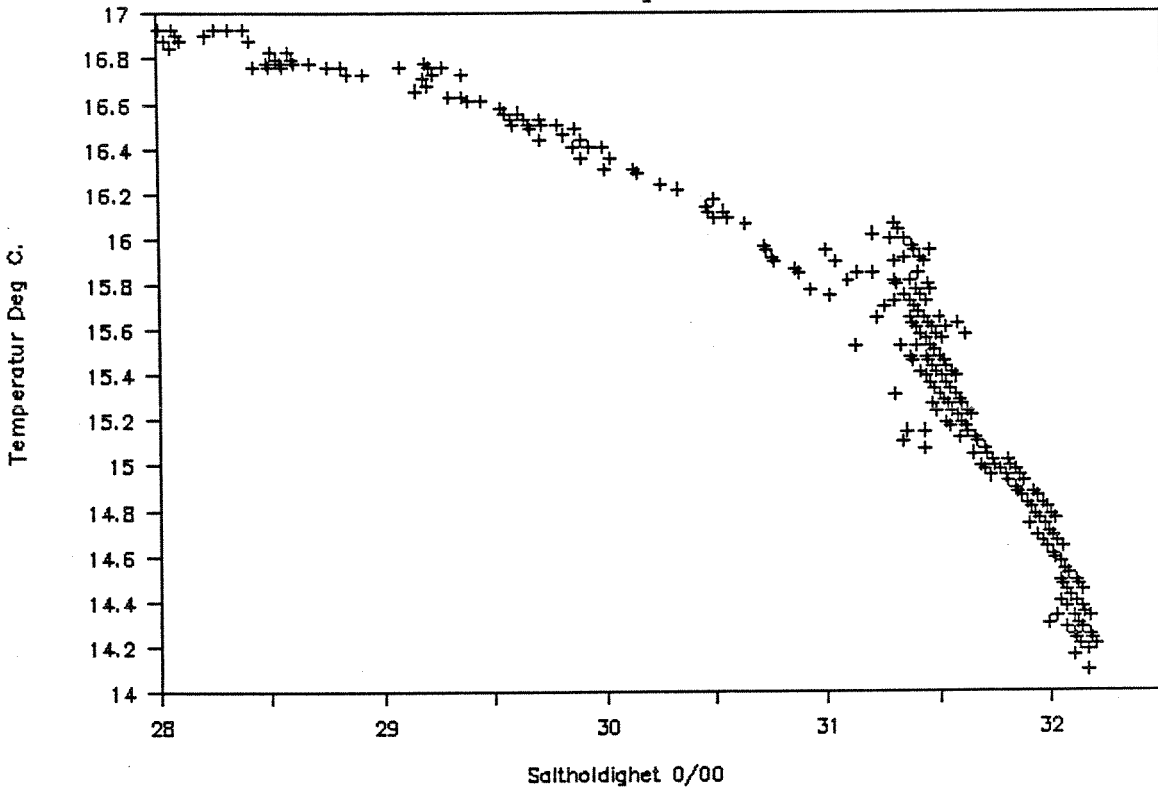
Missingen 30 m.

Tetthet



Missingen 30 m. August 1988

TS - diagram

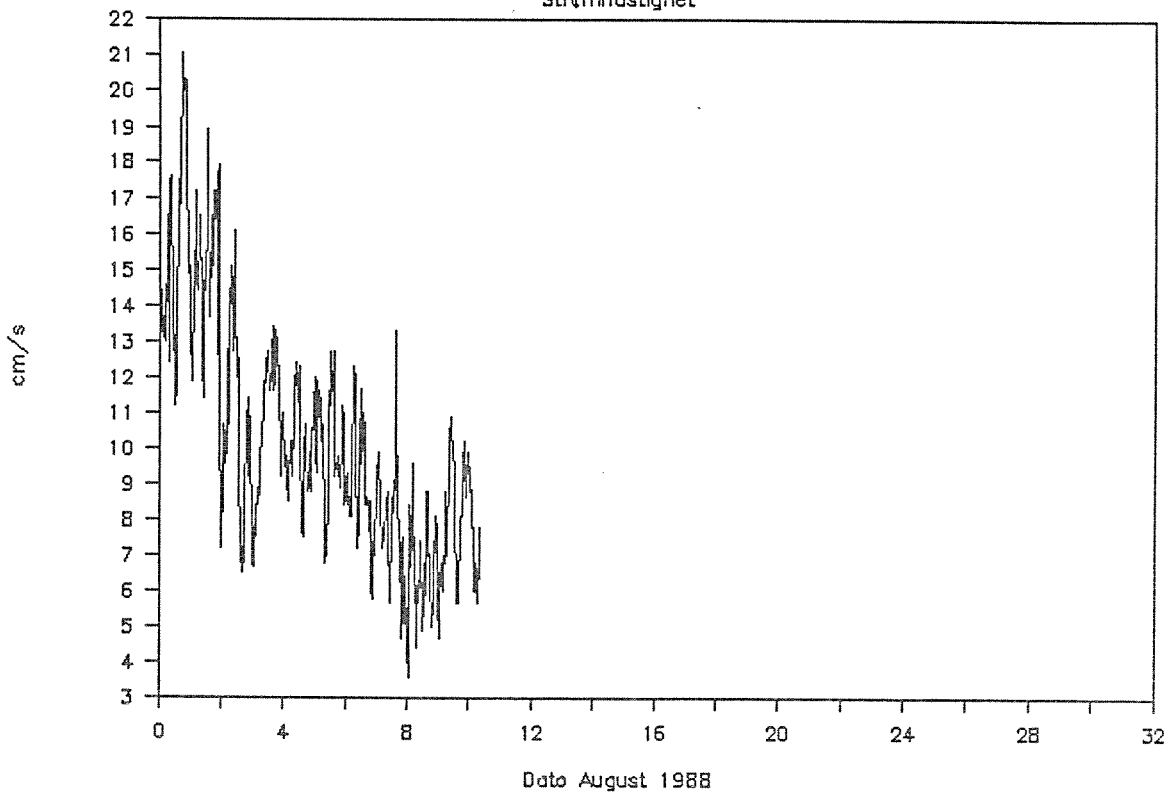


VERITEC

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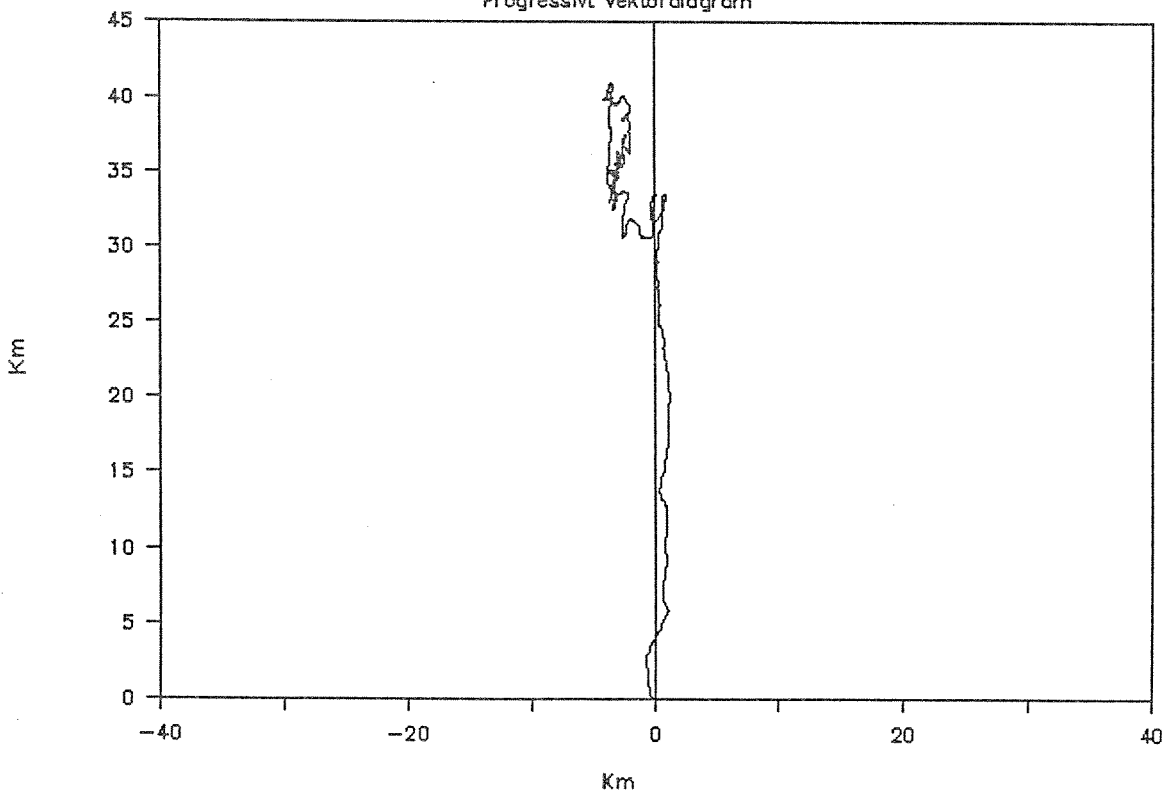
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Strømhastighet



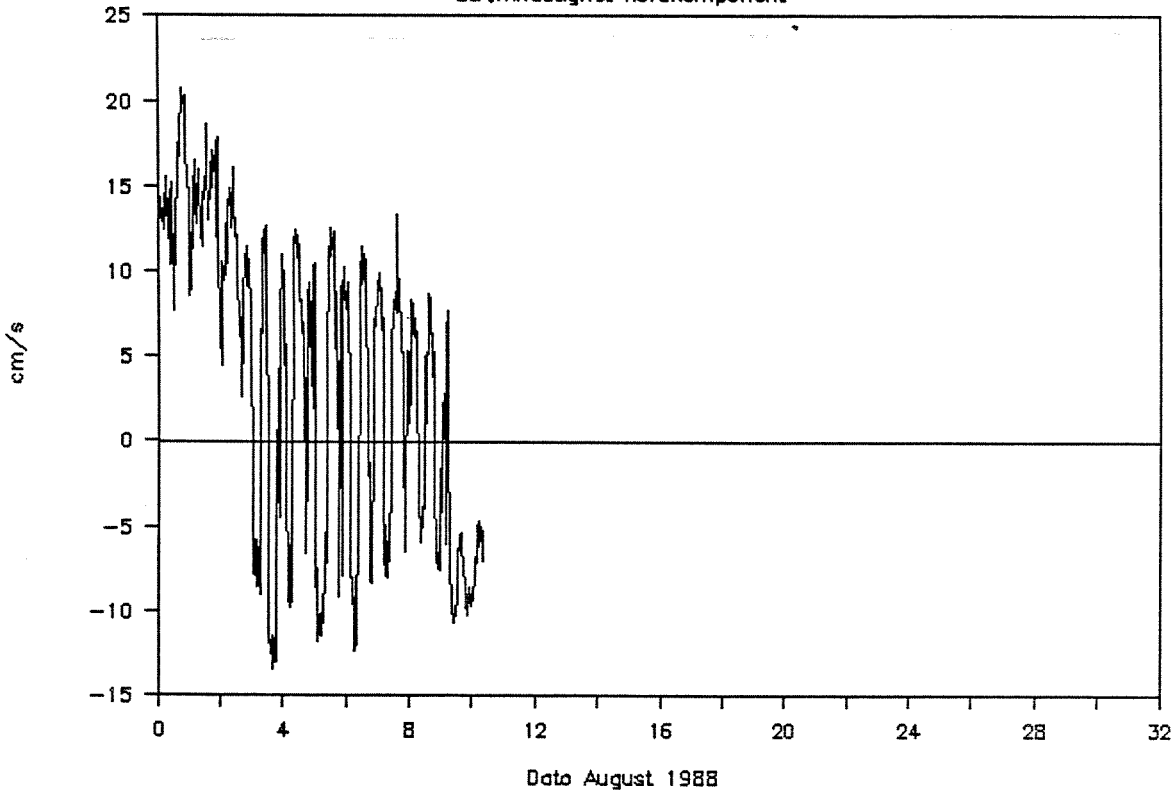
Missingen 30 m. August 1988

Progressivt vektordiagram

**VERITEC**Veritas Offshore Technology
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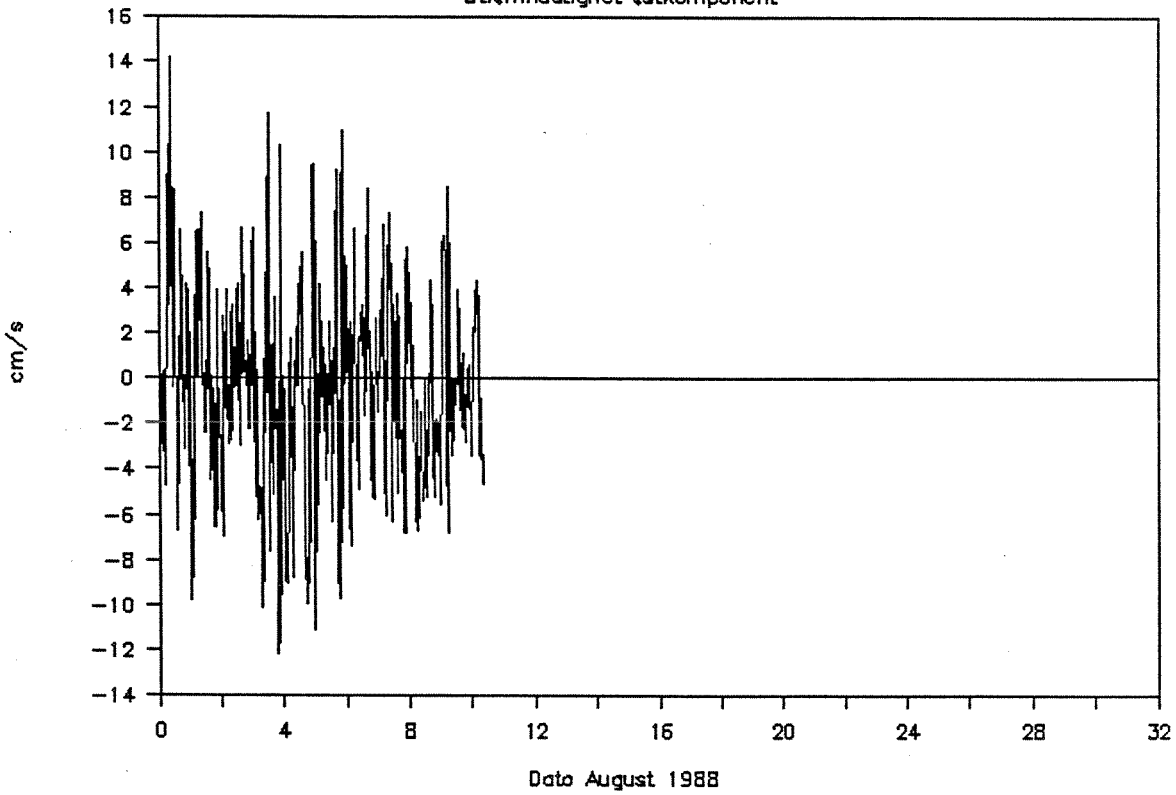
Missingen 30 m.

Strømhastighet nordkomponent



Missingen 30 m.

Strømhastighet østkomponent

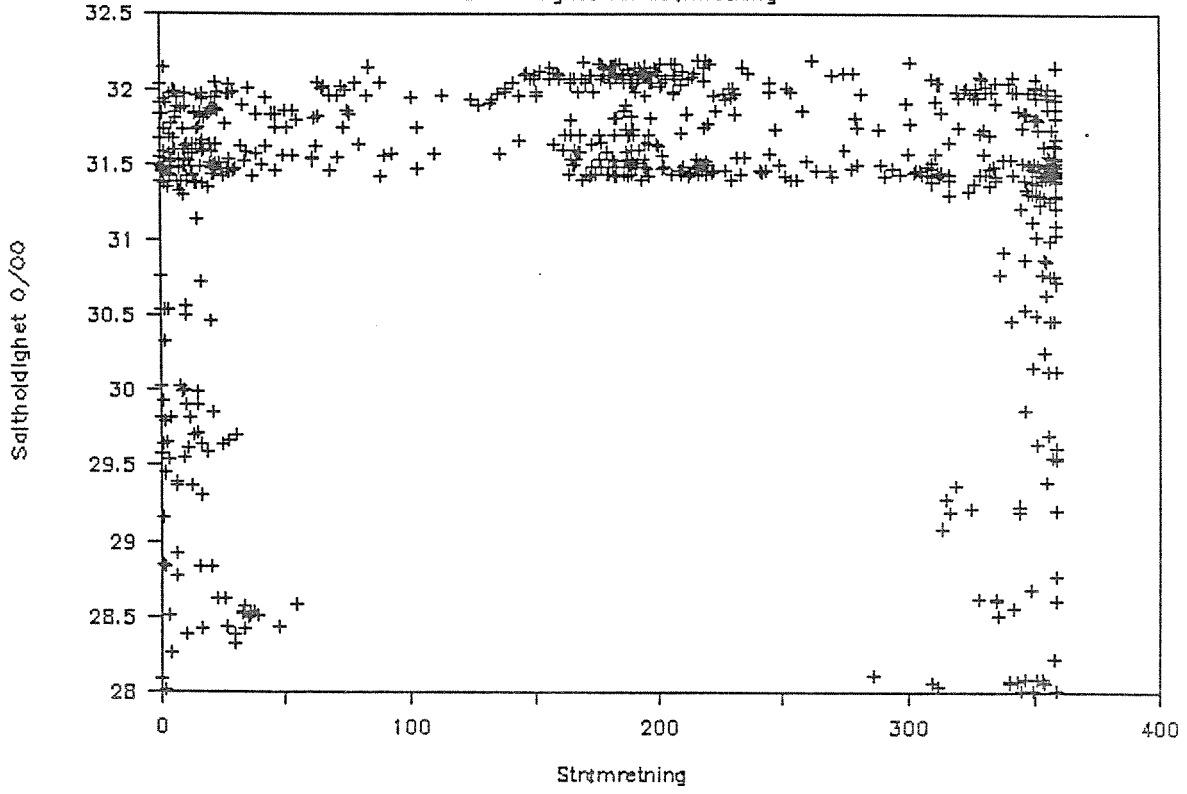


VERITEC

Veritas Offshore Technology
and Services A/S

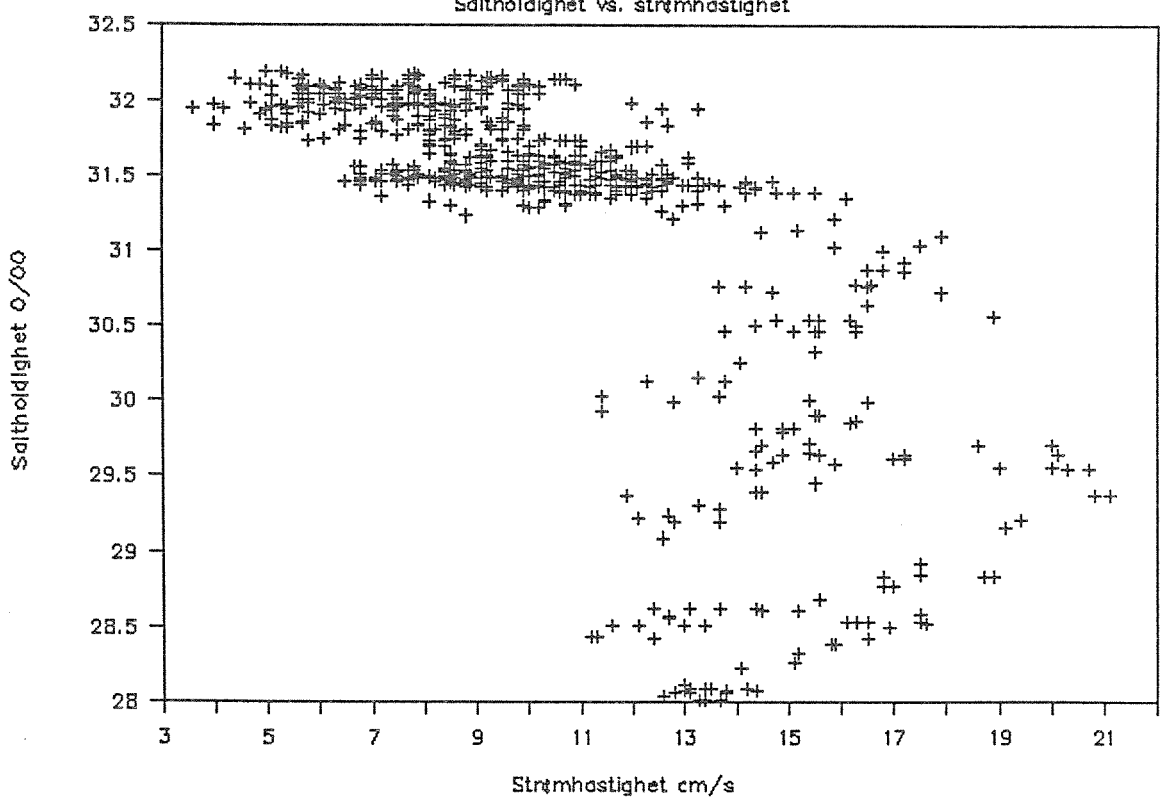
Missingen 30 m. August 1988

Saltholdighet vs. strømretning



Missingen 30 m. August 1988

Saltholdighet vs. strømhastighet

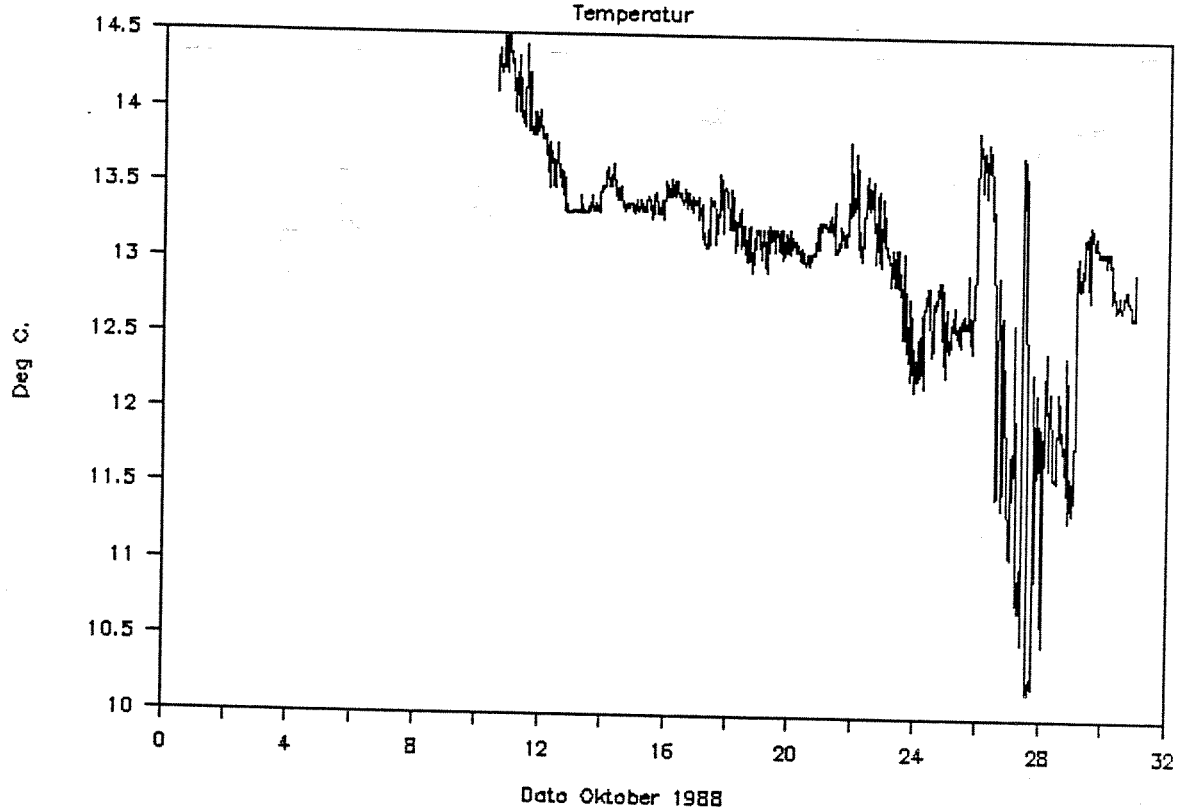


VERITEC

Veritas Offshore Technology and Services A/S

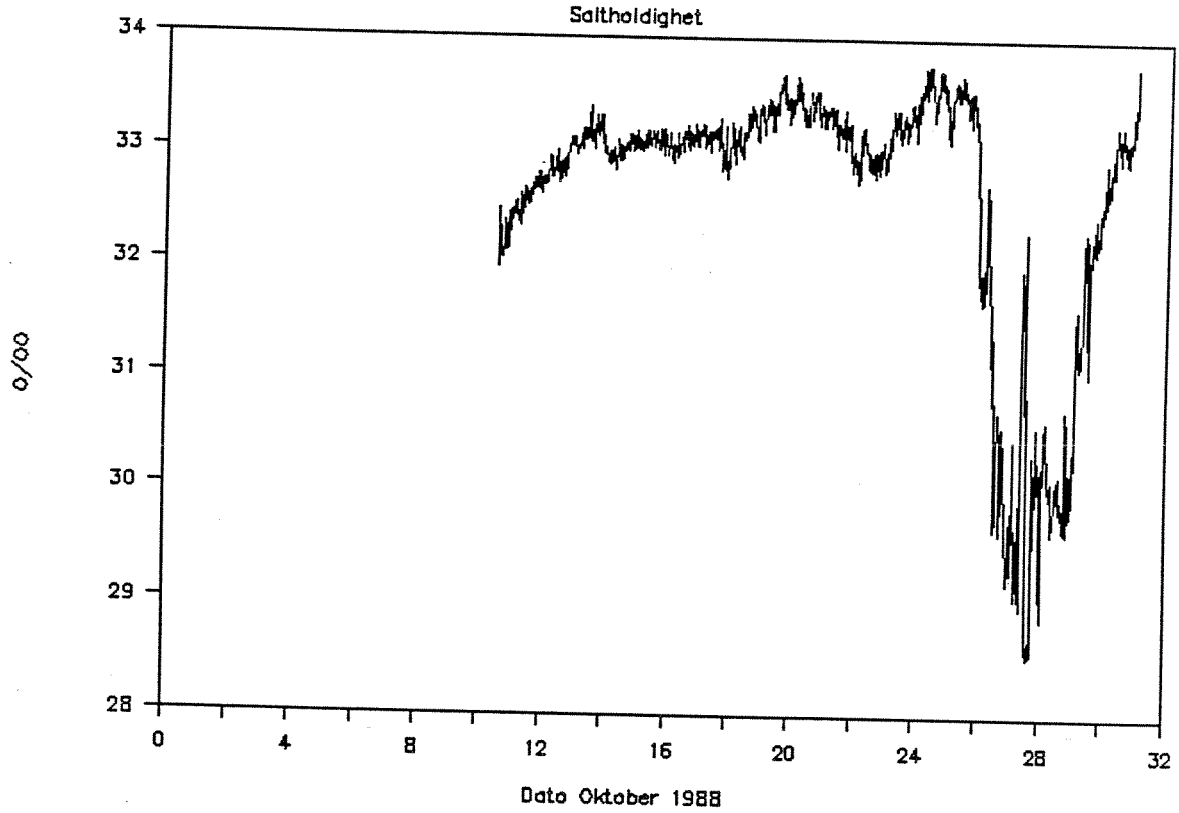
Missingen 30 m.

Temperatur



Missingen 30 m.

Saltholdighet

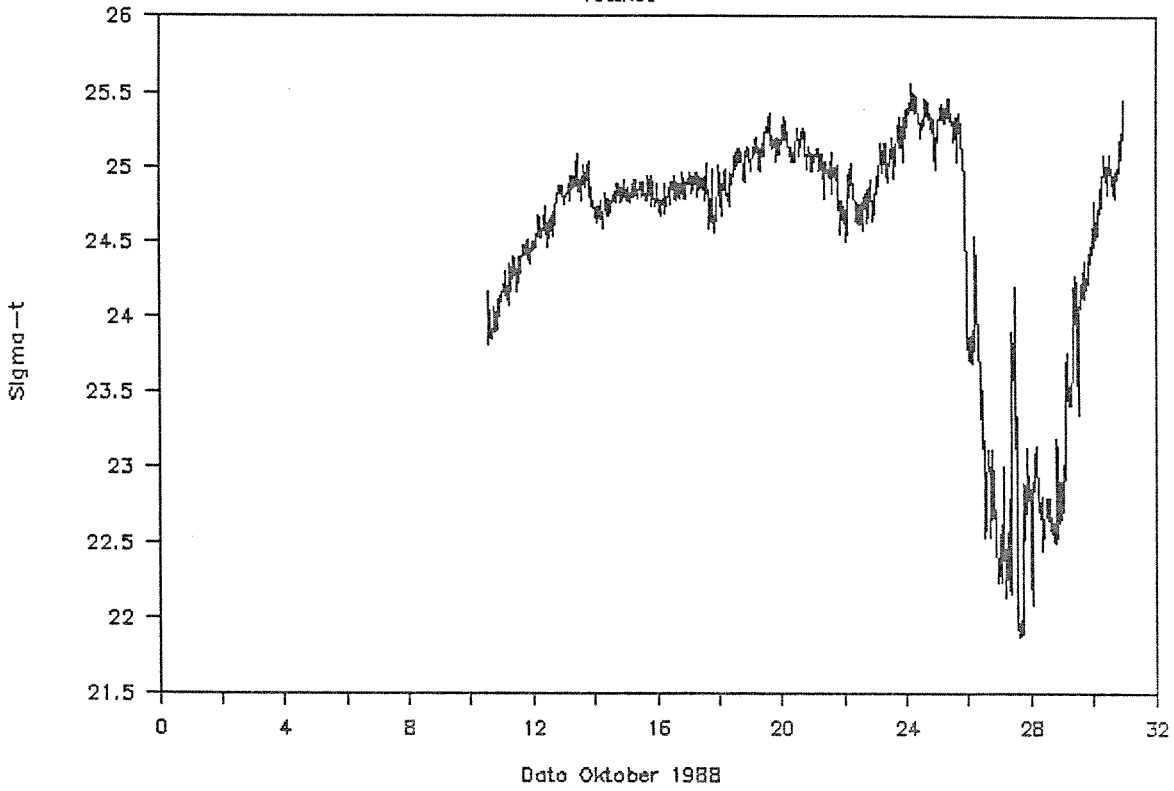


VERITEC

Veritas Offshore Technology
and Services A/S

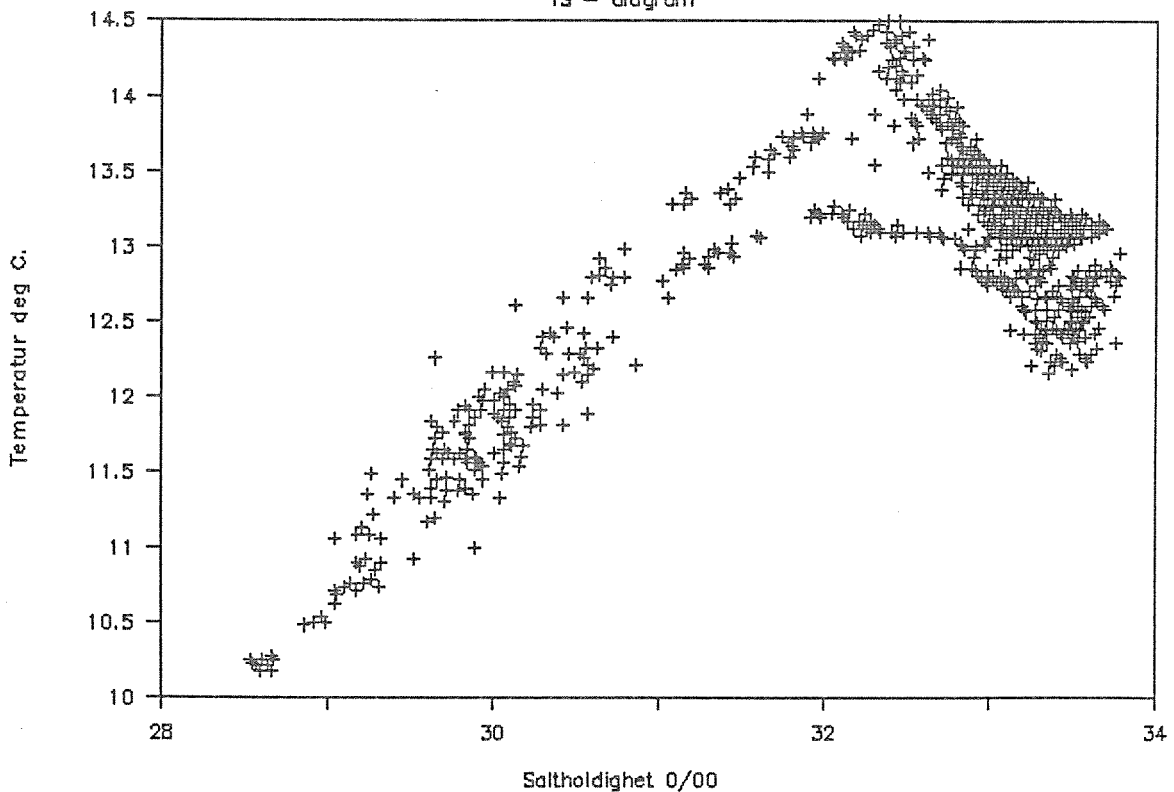
Missingen 30 m.

Tetthet



Missingen 30 m. Oktober 1988

TS - diagram

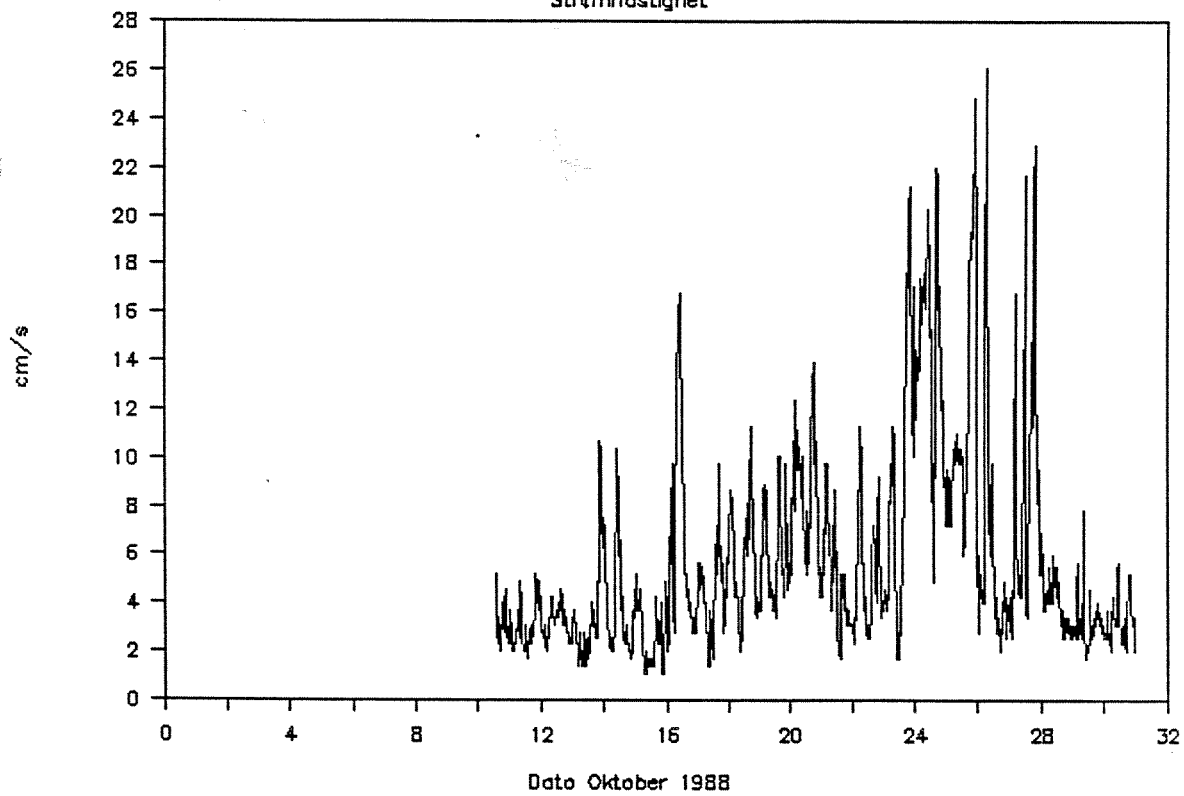


VERITEC

Veritas Offshore Technology
and Services A/S

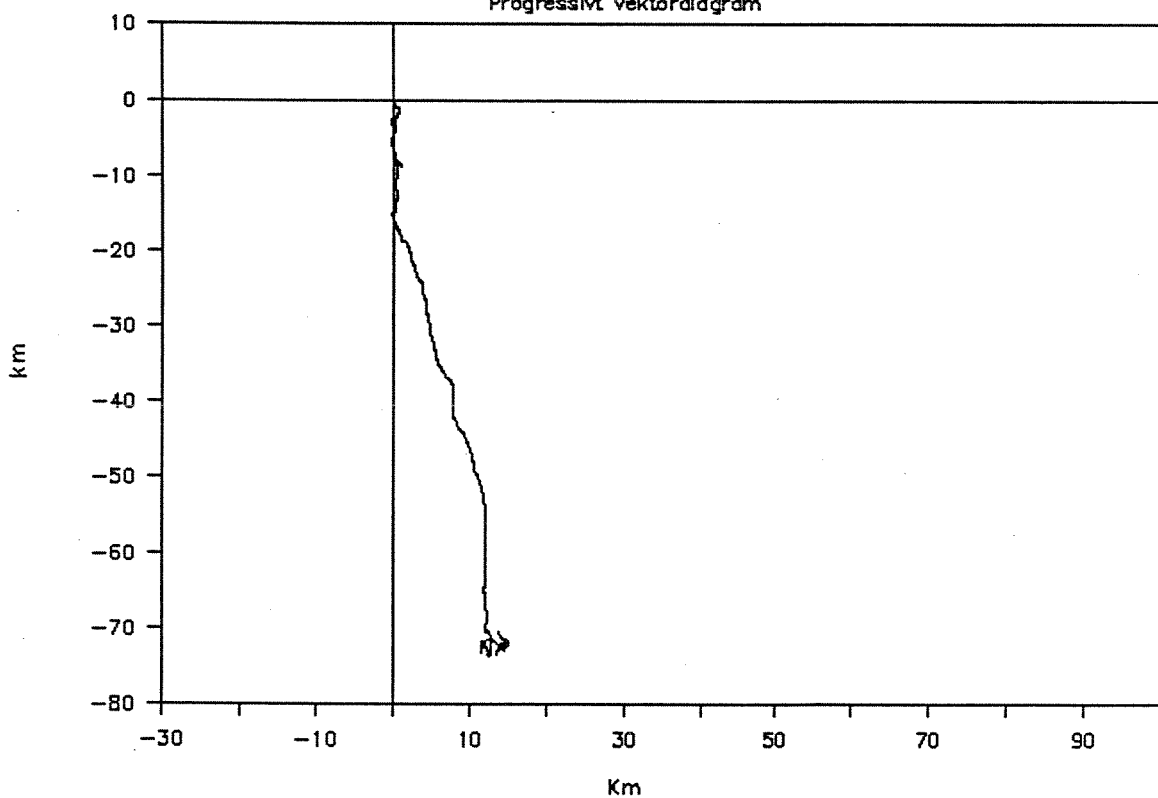
Missingen 30 m.

Strømhastighet



Missingen 30 m. Oktober 1988

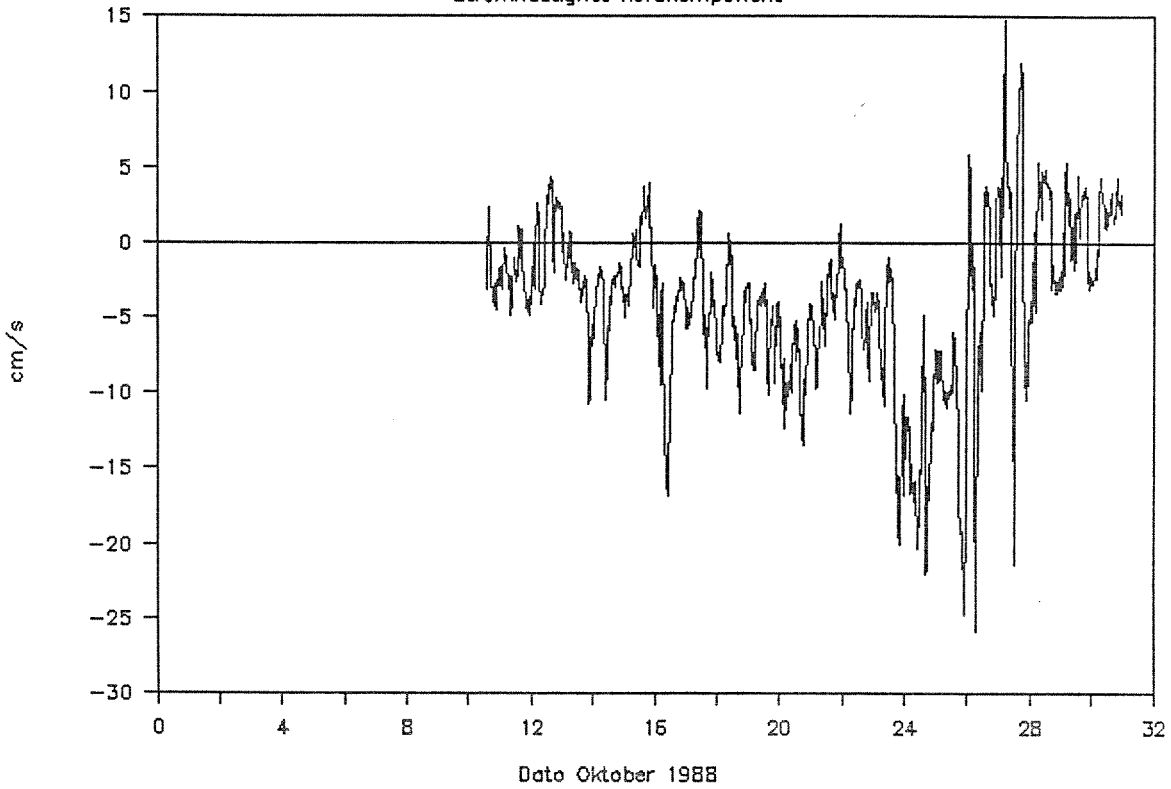
Progressivt vektordiagram



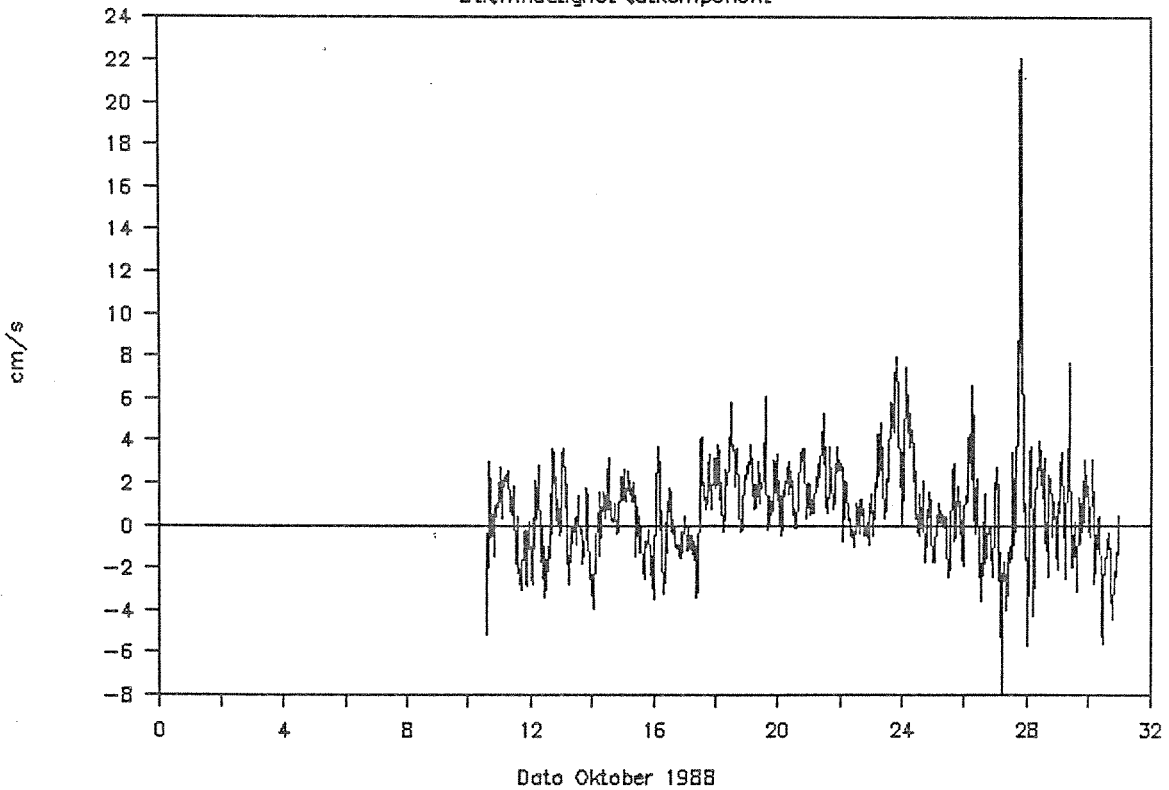
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Missingen 30 m. Strømhastighet nordkomponent



Missingen 30 m. Strømhastighet østkomponent

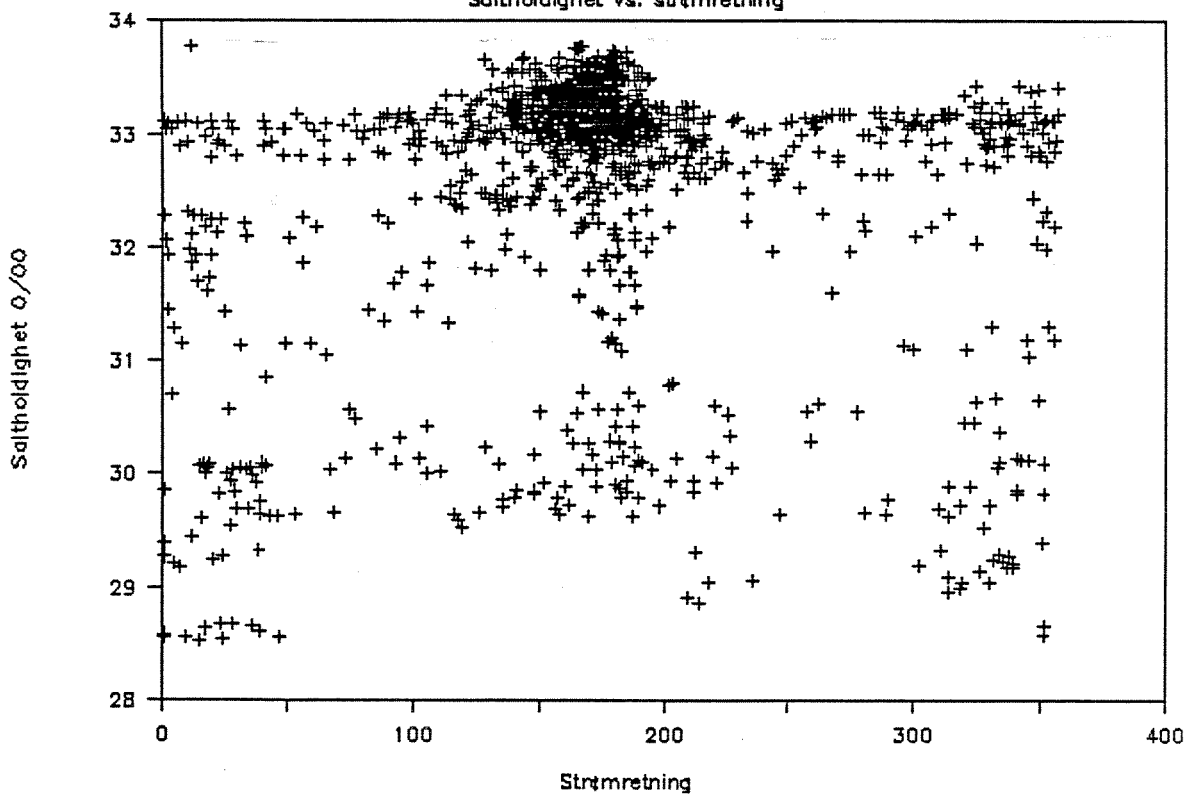


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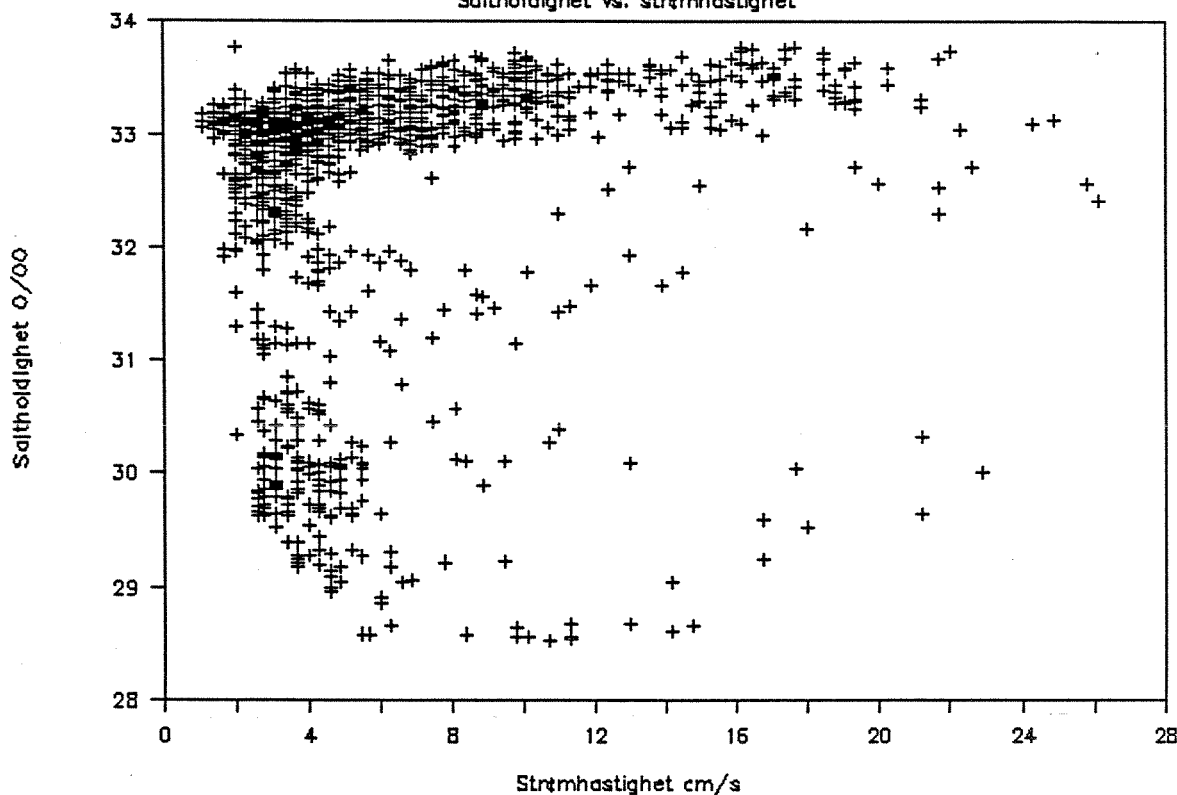
Missingen 30 m. Oktober 1988

Saltholdighet vs. strømretning



Missingen 30 m. Oktober 1988

Saltholdighet vs. strømhastighet



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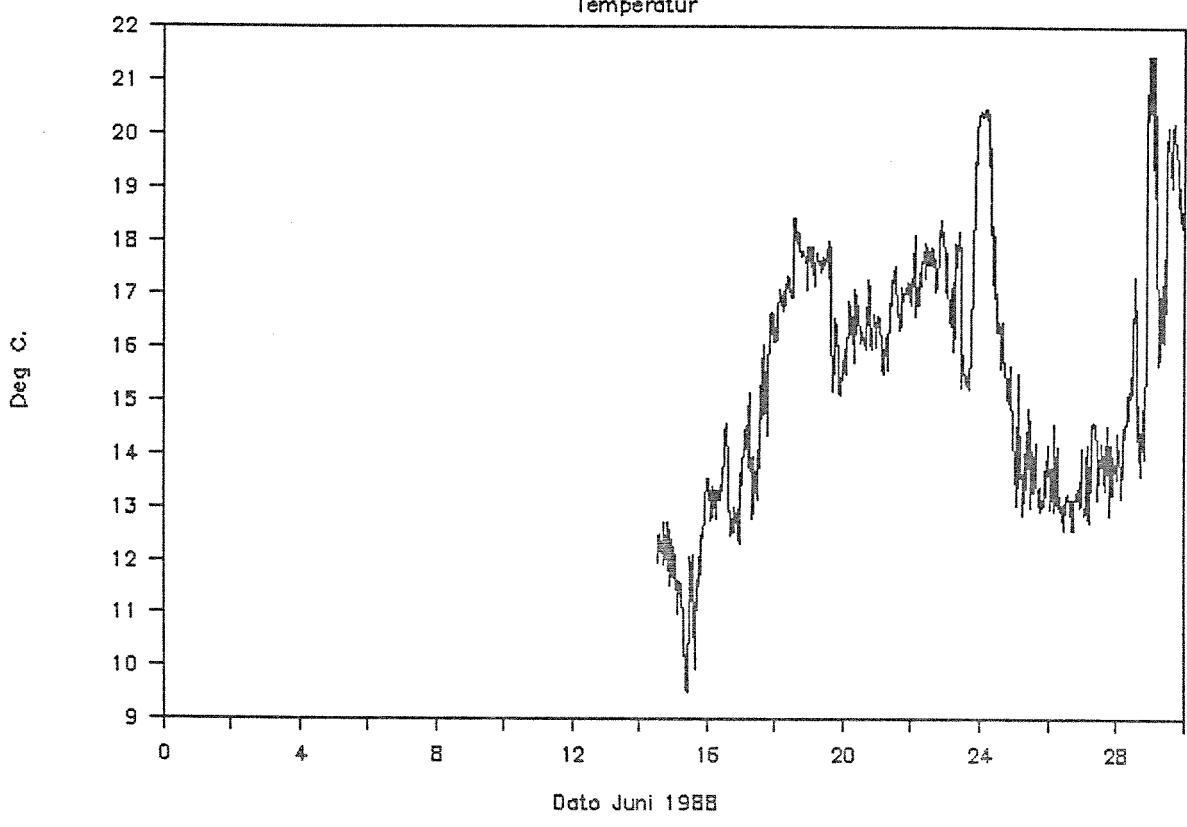
IFINAL ANALYSIS RESULTS IN CURRENT ELLIPSE FORM
 FOR STATION 9999, FUGLEHUK 5 METERS ,AT THE LOCATION 59 10, 10 37
 OVER THE PERIOD OF 14HR 15/ 6/88 TO 12HR 4/ 8/88
 GREENWICH PHASES ARE FOR TIME ZONE GMT

NAME	SPEED	MAJOR	MINOR	INC	G	G+	G-
1 ZO	.00000000	7.253	.000	162.9	180.0	17.1	342.9
2 MM	.00151215	23.815	6.871	178.0	291.9	113.9	109.9
3 MSF	.00282193	35.856	11.780	45.3	273.4	228.1	318.7
4 ALP1	.03439657	8.650	-3.461	42.0	323.3	281.3	5.4
5 2Q1	.03570635	14.512	-1.005	50.0	130.4	80.4	180.5
6 Q1	.03721850	8.861	3.041	179.4	337.0	157.5	156.4
7 O1	.03873065	5.755	-1.017	44.3	159.7	115.4	203.9
8 NO1	.04026860	4.585	-1.541	55.4	105.0	49.6	160.4
9 K1	.04178075	13.941	2.185	35.5	188.9	153.5	224.4
10 J1	.04329290	11.798	-4.207	160.9	.8	199.8	161.7
11 OO1	.04483084	4.452	1.044	77.2	52.1	334.9	129.3
12 UPS1	.04634299	3.500	.103	77.3	35.2	318.0	112.5
13 EPS2	.07617731	2.447	1.251	71.9	162.2	90.3	234.1
14 MU2	.07768947	4.160	-3.663	74.3	243.5	169.2	317.7
15 N2	.07899925	9.544	-1.278	63.4	28.3	324.9	91.7
16 M2	.08051140	19.674	-7.301	62.0	140.0	78.0	202.0
17 L2	.08202355	14.570	-1.865	87.5	252.1	164.6	339.7
18 S2	.08333334	7.162	-.913	67.1	115.3	48.2	182.3
19 ETA2	.08507364	4.427	-.652	88.7	336.9	248.2	65.5
20 MO3	.11924210	3.010	1.673	17.3	6.7	349.4	23.9
21 M3	.12076710	5.025	-1.414	10.1	53.3	43.2	63.4
22 MK3	.12229210	5.557	-.838	20.6	.5	339.9	21.1
23 SK3	.12511410	3.022	-.147	140.1	100.9	320.7	241.0
24 MN4	.15951060	4.905	-.168	21.9	279.4	257.5	301.3
25 M4	.16102280	3.191	-1.020	69.3	49.7	340.3	119.0
26 SN4	.16233260	2.373	.085	138.7	307.1	168.4	85.8
27 MS4	.16384470	4.083	-1.430	66.8	69.1	2.2	135.9
28 S4	.16666670	4.478	-.892	50.9	4.1	313.2	55.0
29 2MK5	.20280360	1.583	-.663	136.4	7.6	231.2	144.0
30 2SK5	.20844740	1.628	-1.039	136.9	64.7	287.8	201.6
31 2MN6	.24002200	2.925	1.681	54.0	320.1	266.2	14.1
32 M6	.24153420	2.683	.556	84.5	71.7	347.2	156.3
33 2MS6	.24435610	2.057	.603	103.8	204.9	101.1	308.7
34 2SM6	.24717810	1.764	.058	60.9	163.4	102.5	224.2
35 3MK7	.28331490	1.127	.193	113.9	85.1	331.2	199.0
36 M8	.32204560	1.651	.727	149.2	214.1	64.9	3.3

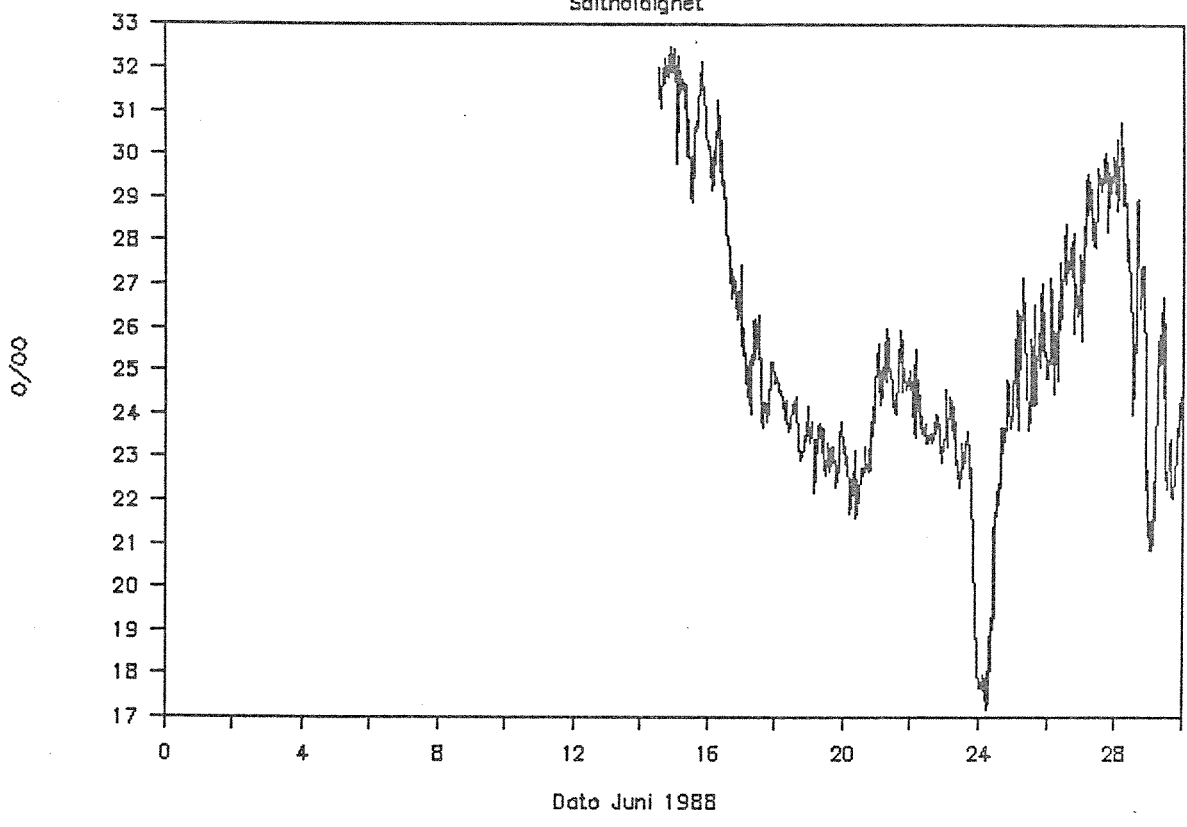
FINAL ANALYSIS RESULTS IN CURRENT ELLIPSE FORM
 FOR STATION 9999, FUGLEHUK 5 METERS , AT THE LOCATION 59 10, 10 37
 OVER THE PERIOD OF 16HR 4/ 8/88 TO 10HR 22/ 9/88
 GREENWICH PHASES ARE FOR TIME ZONE GMT

NAME	SPEED	MAJOR	MINOR	INC	G	G+	G-
1 Z0	.00000000	22.506	.000	58.5	180.0	121.5	238.5
2 MM	.00151215	23.497	4.676	81.8	80.4	358.6	162.3
3 MSF	.00282193	25.686	7.431	103.6	51.7	308.1	155.2
4 ALP1	.03439657	5.516	3.065	134.2	231.0	96.8	5.2
5 2Q1	.03570635	6.522	2.571	41.1	91.2	50.1	132.3
6 Q1	.03721850	6.476	.171	63.4	163.4	100.0	226.7
7 O1	.03873065	2.640	-.213	97.0	202.8	105.7	299.8
8 N01	.04026860	4.019	.369	116.1	116.0	359.9	232.1
9 K1	.04178075	5.132	1.633	12.0	343.5	331.5	355.5
10 J1	.04329290	7.475	.084	51.3	41.2	349.9	92.5
11 001	.04483084	1.744	.704	36.6	12.4	335.8	49.0
12 UPS1	.04634299	2.467	.836	54.5	326.3	271.8	20.9
13 EPS2	.07617731	6.367	-3.909	76.5	136.9	60.3	213.4
14 MU2	.07768947	4.893	.516	99.2	292.2	193.0	31.4
15 N2	.07899925	9.844	-1.113	53.9	146.1	92.2	200.1
16 M2	.08051140	12.913	-2.519	75.4	141.4	66.0	216.8
17 L2	.08202355	10.122	-6.336	6.8	280.3	273.5	287.1
18 S2	.08333334	7.415	-1.858	35.2	113.6	78.3	148.8
19 ETA2	.08507364	2.895	-.238	155.4	317.5	162.0	112.9
20 M03	.11924210	1.558	.126	113.3	10.7	257.4	124.0
21 M3	.12076710	4.169	.734	57.7	94.0	36.3	151.7
22 MK3	.12229210	1.683	-.200	66.5	301.0	234.5	7.5
23 SK3	.12511410	1.487	-.798	80.0	337.4	257.4	57.3
24 MN4	.15951060	1.466	.755	135.7	327.5	191.8	103.3
25 M4	.16102280	2.358	-2.051	165.2	309.7	144.5	115.0
26 SN4	.16233260	2.813	-1.187	75.0	70.2	355.2	145.3
27 MS4	.16384470	1.971	.365	175.1	326.1	151.0	141.1
28 S4	.16666670	2.253	-.596	77.1	354.9	277.8	72.0
29 2MK5	.20280360	.846	-.210	69.4	85.6	16.2	155.0
30 2SK5	.20844740	.434	.010	64.8	192.4	127.5	257.2
31 2MN6	.24002200	1.291	-.055	65.9	337.4	271.5	43.3
32 M6	.24153420	1.331	.138	110.2	95.4	345.2	205.5
33 2MS6	.24435610	2.218	-.642	30.6	130.0	99.4	160.6
34 2SM6	.24717810	1.580	-.225	79.3	196.7	117.4	276.0
35 3MK7	.28331490	1.417	-.141	149.8	249.9	100.1	39.8
36 M8	.32204560	1.105	.513	123.4	17.0	253.6	140.4

Fuglehuk 5 m Temperatur



Fuglehuk 5 m Saltaldighet

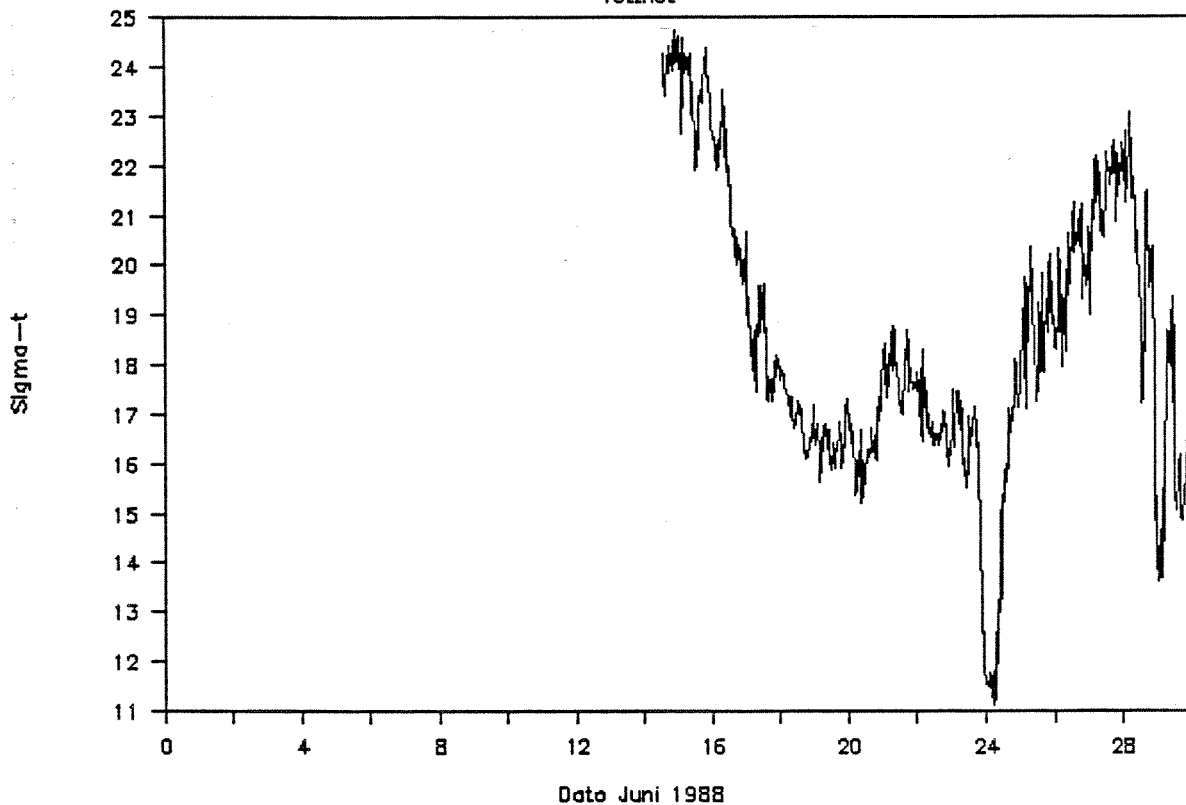


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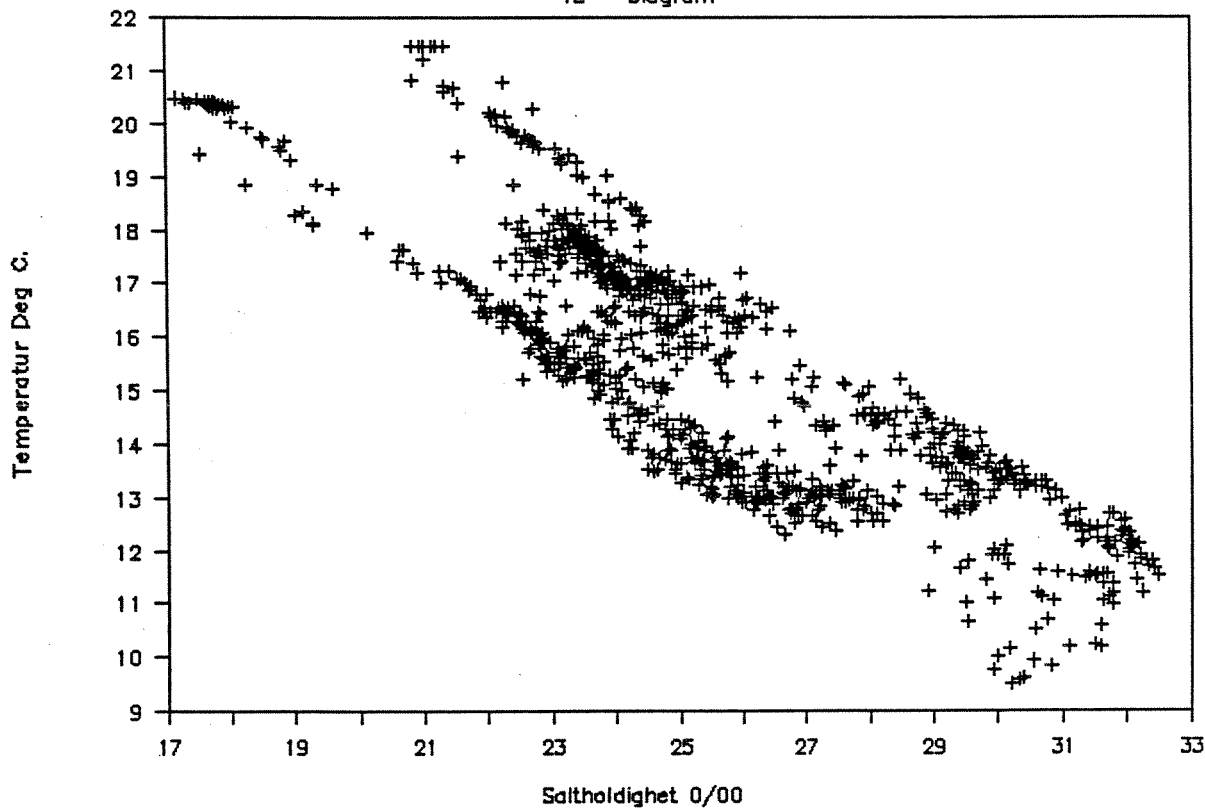
Fuglehuk 5 m

Tetthet



Fuglehuk 5 m Juni 1988

TS - Diagram

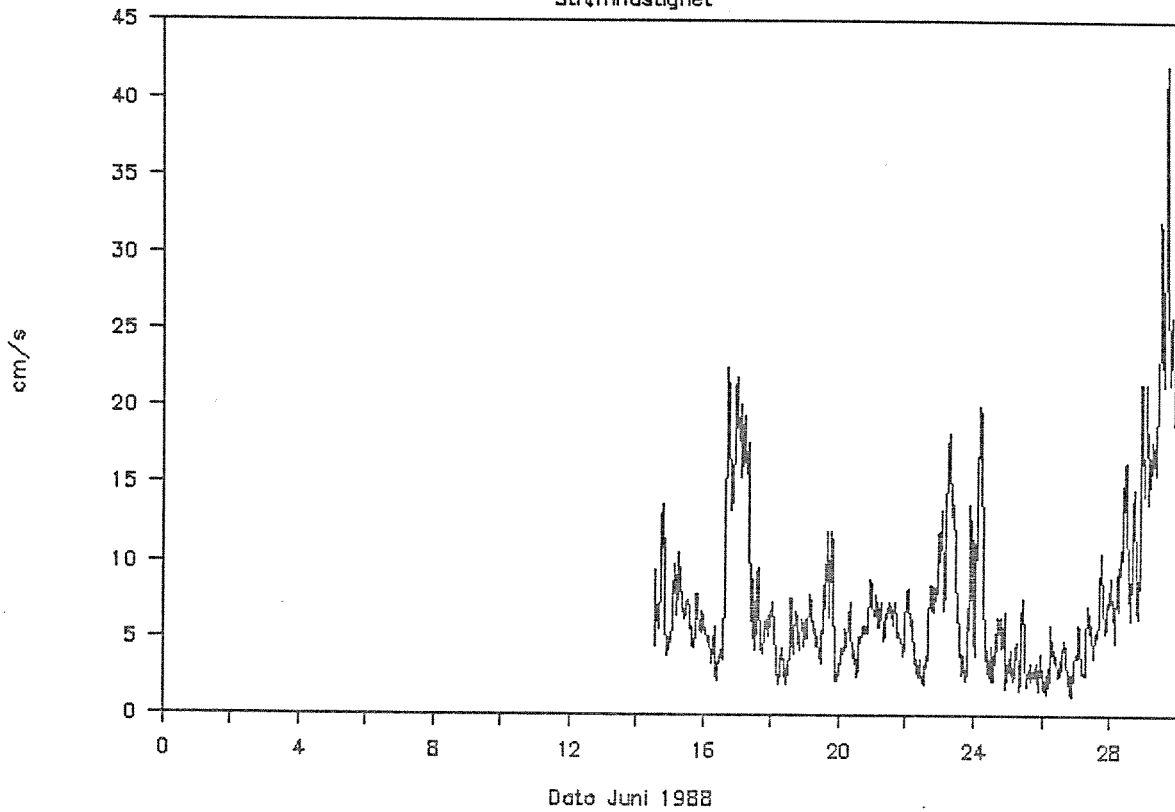


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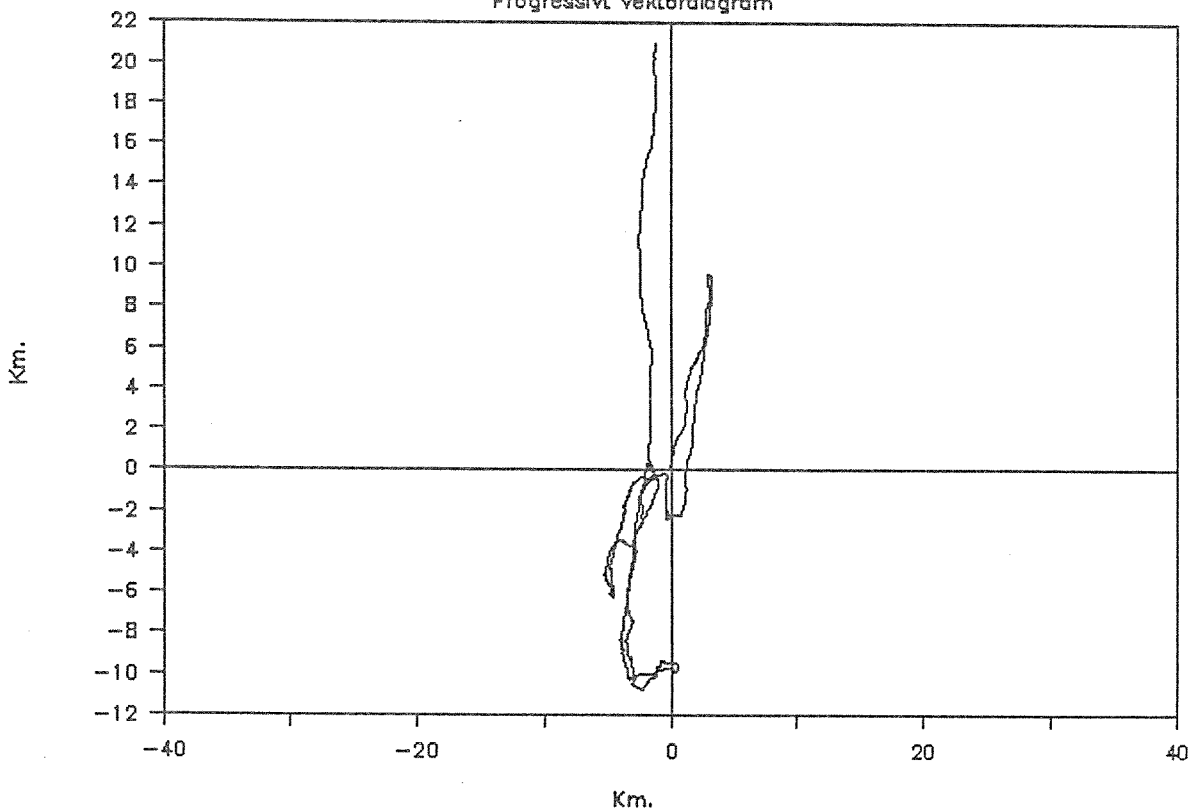
Fuglehuk 5 m

Strømhastighet



Fuglehuk 5 m Juni 1988

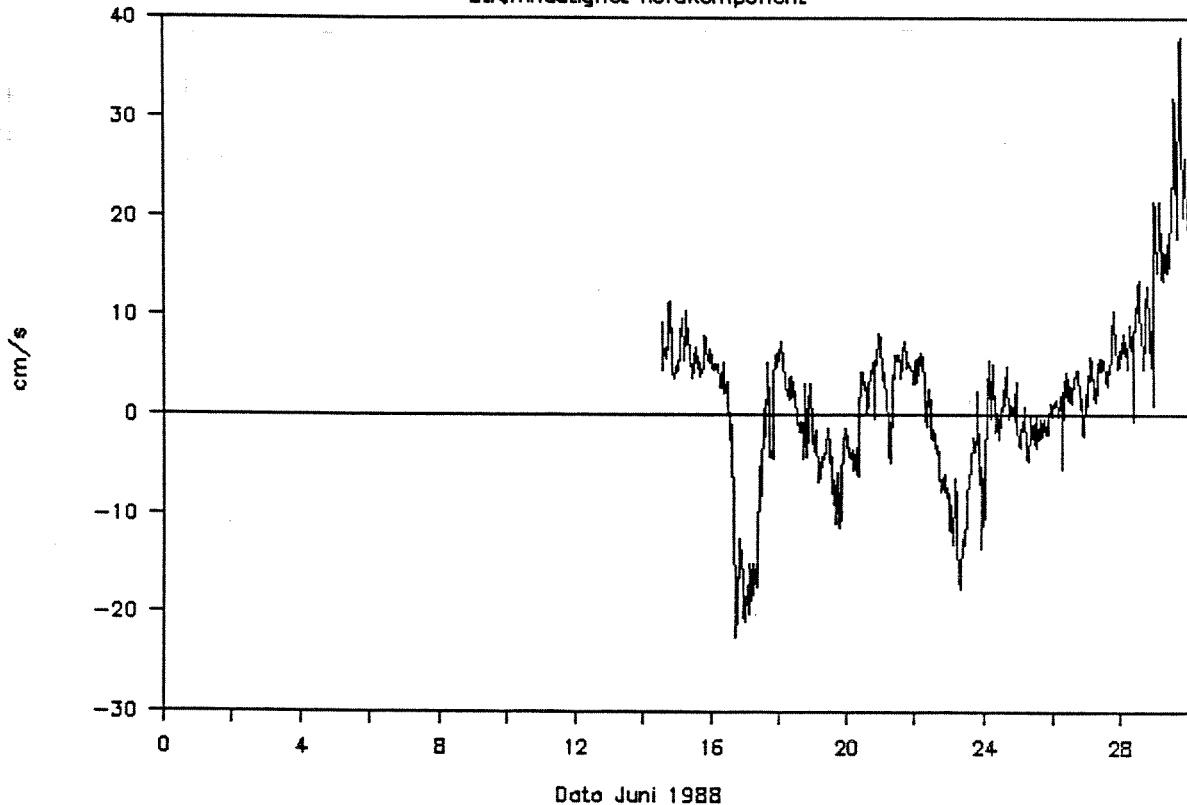
Progressivt Vektordiagram



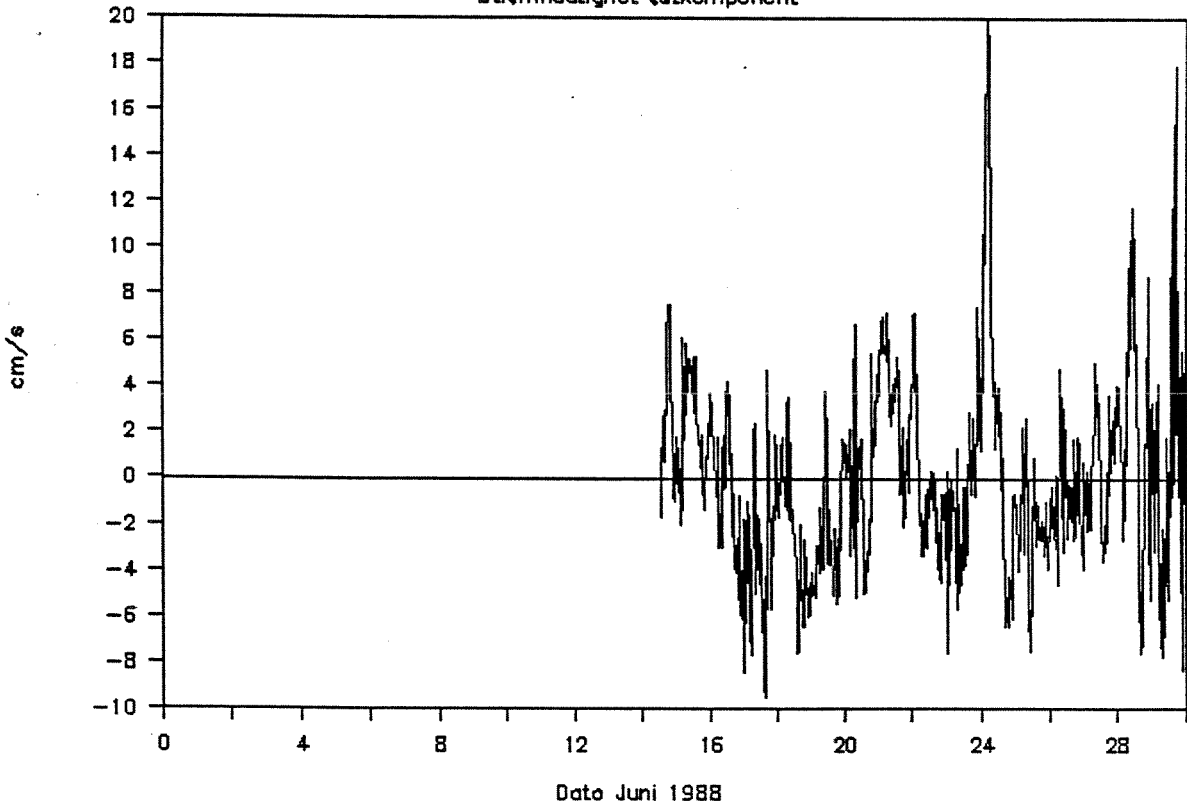
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Fuglehuk 5 m Strømhastighet nordkomponent

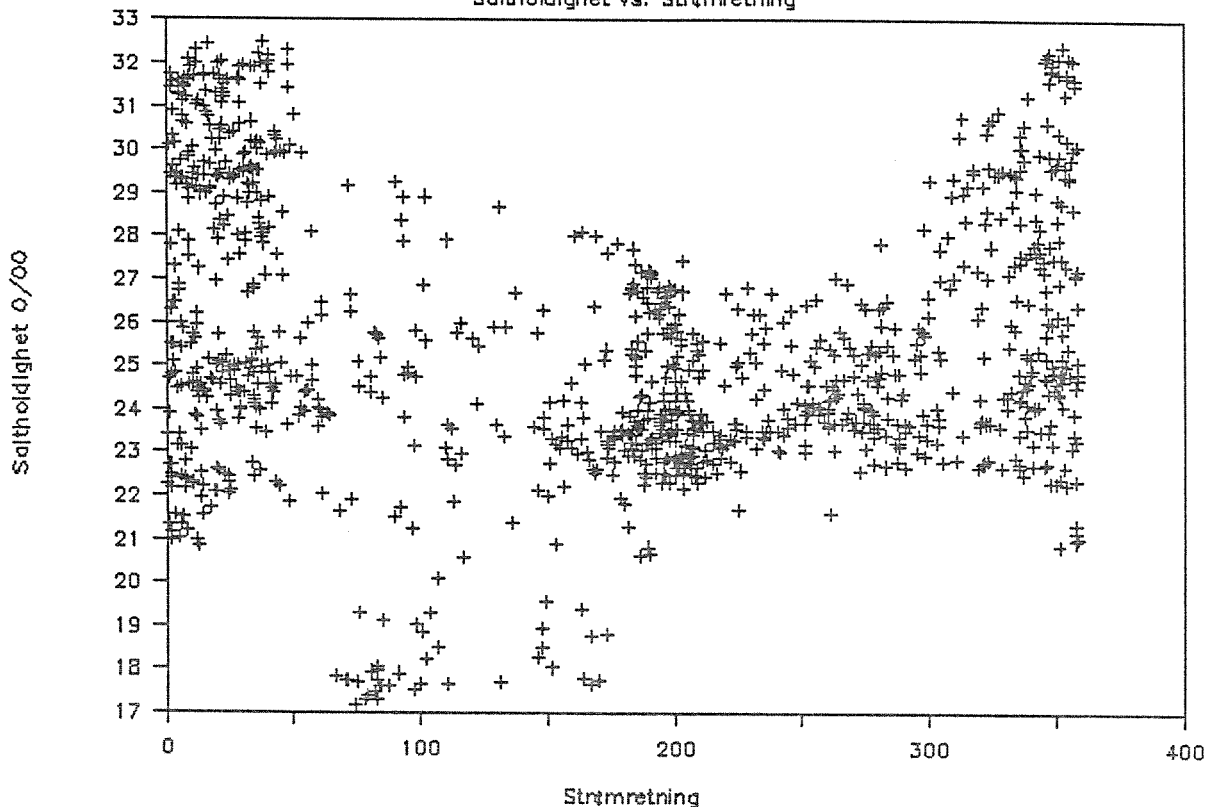


Fuglehuk 5 m Strømhastighet østkomponent



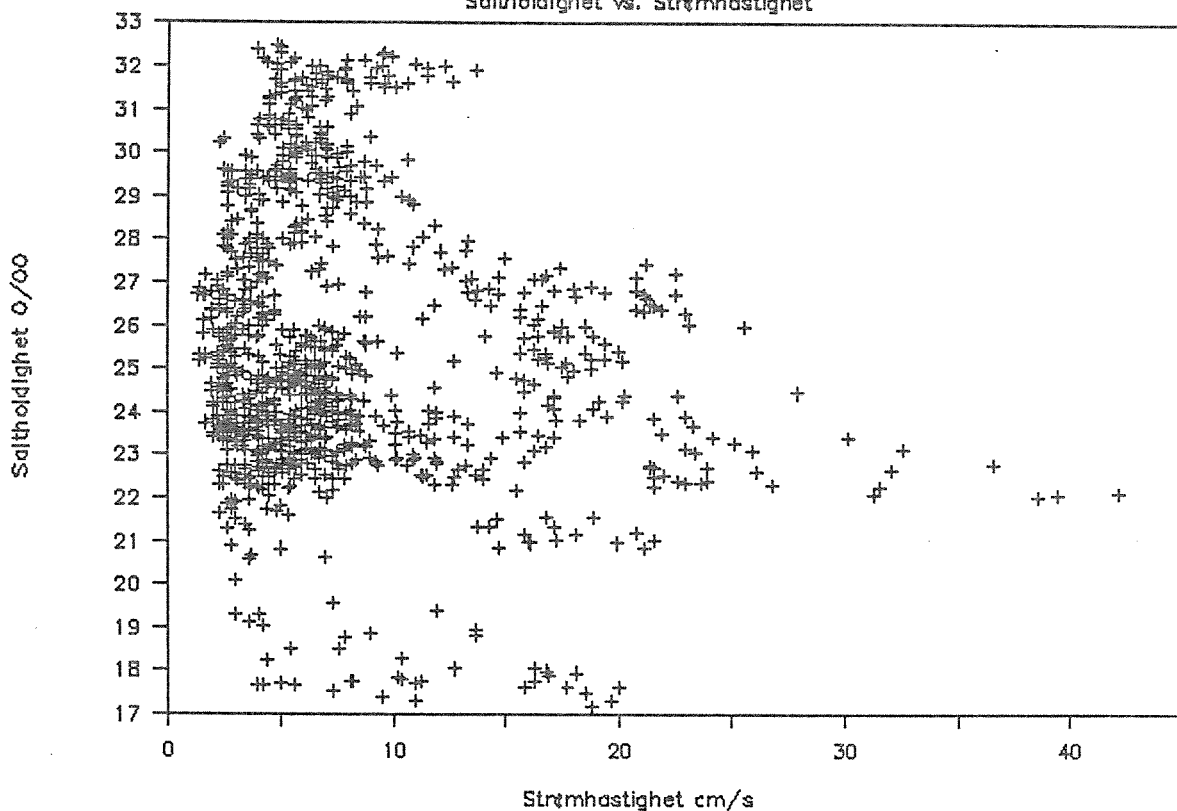
Fuglehuk 5 m Juni 1988

Saltholdighet vs. Strømretning



Fuglehuk 5 m Juni 1988

Saltholdighet vs. Strømhastighet

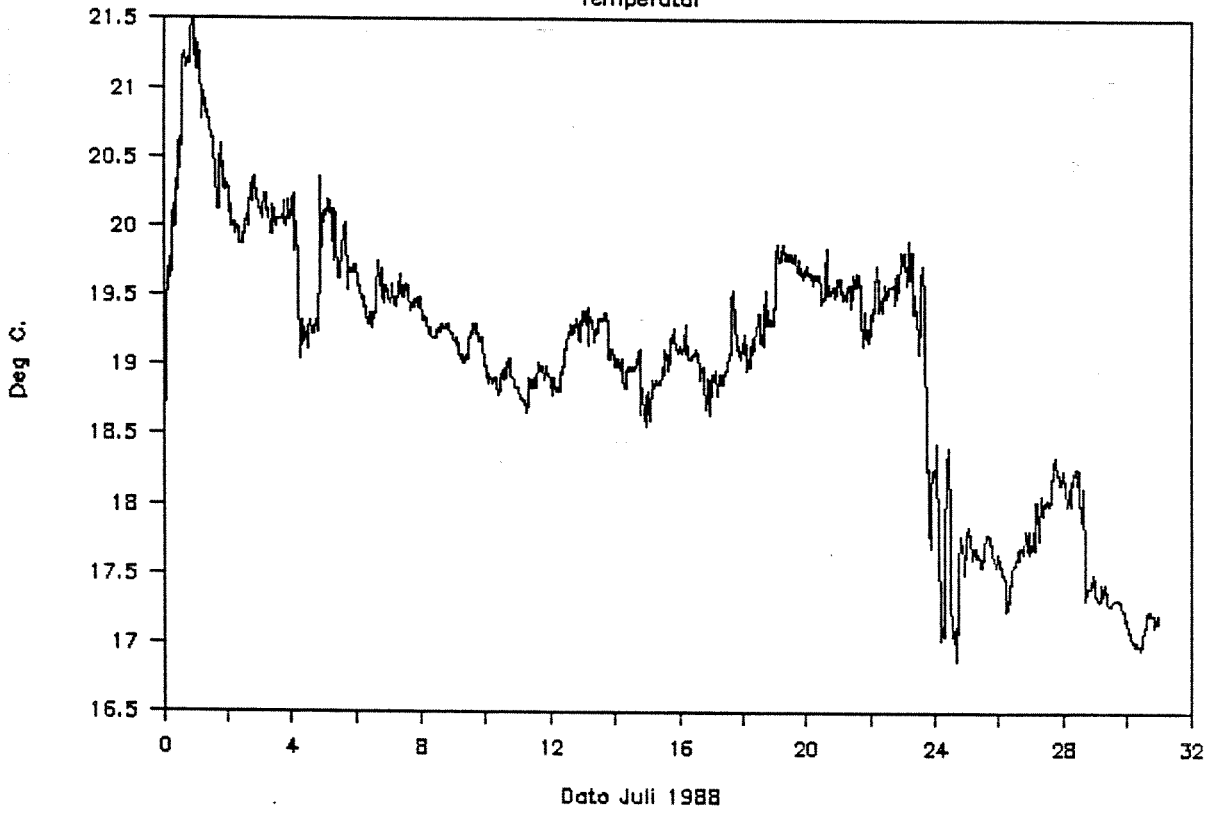


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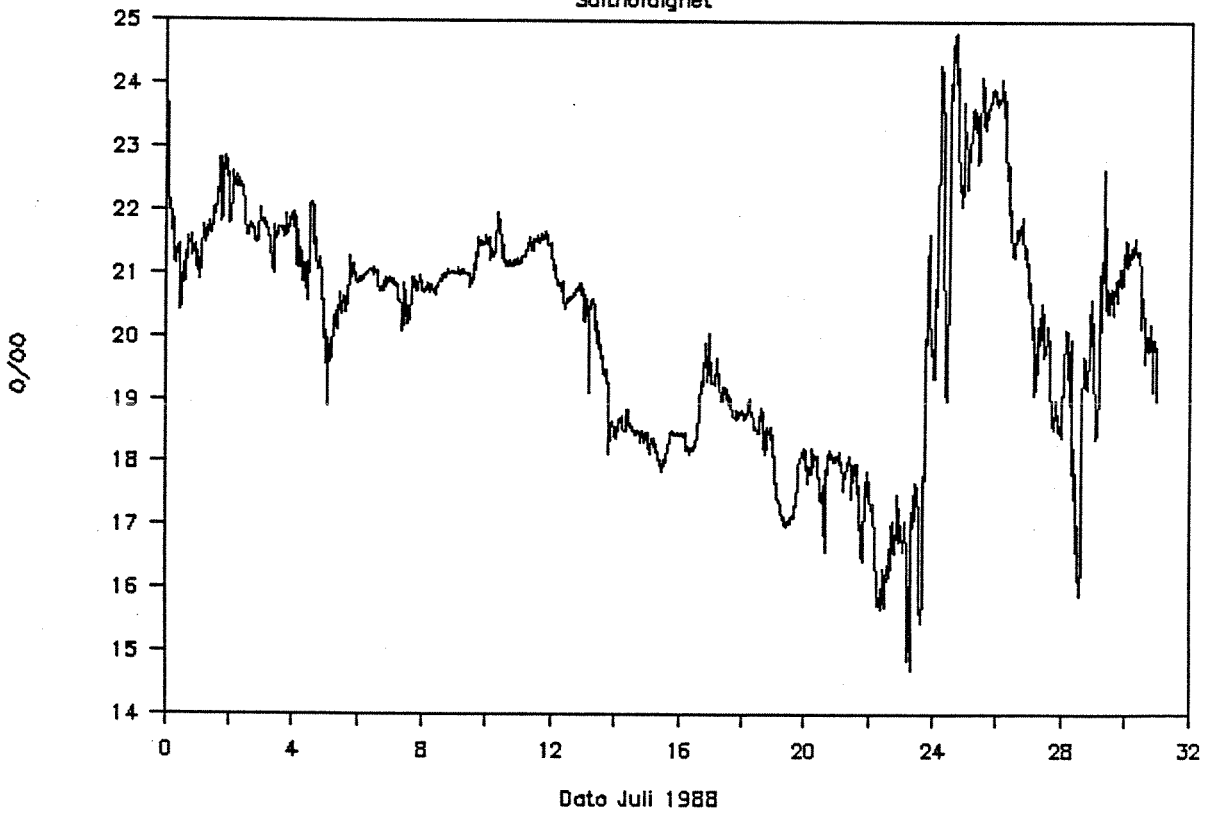
Fuglehuk 5 m.

Temperatur



Fuglehuk 5 m.

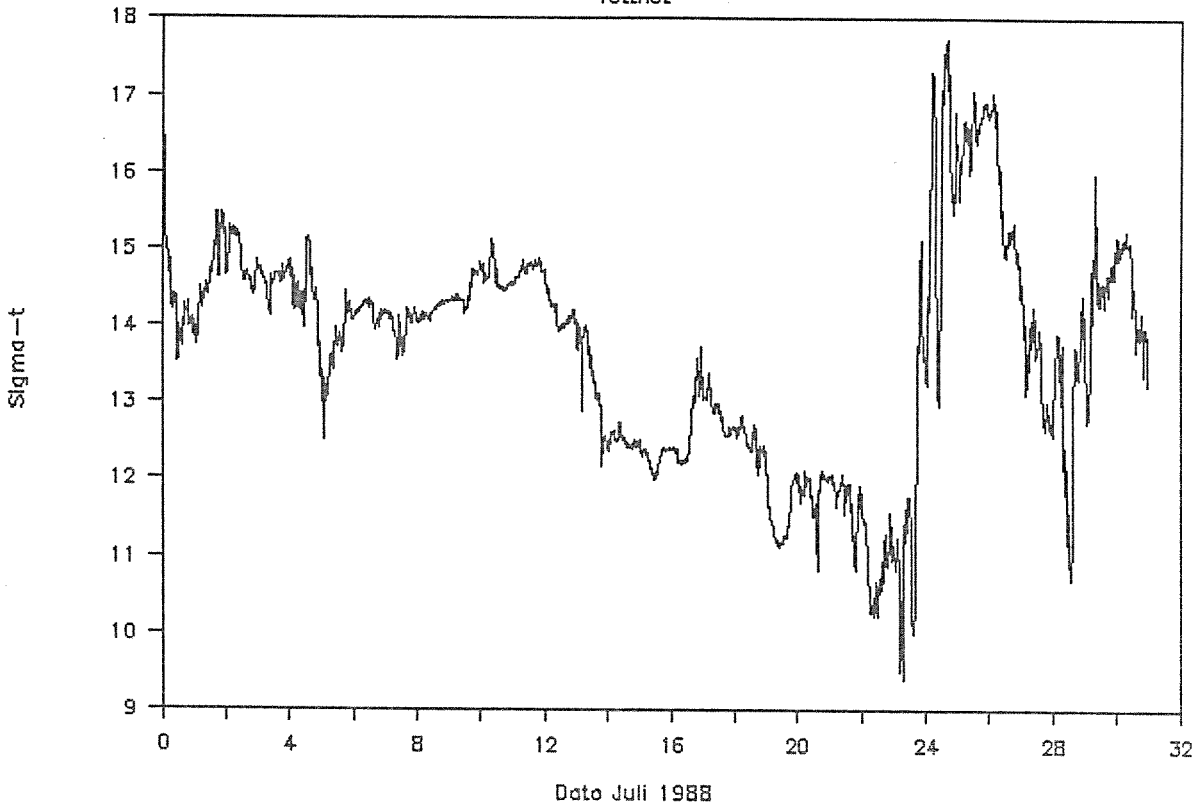
Saltholdighet



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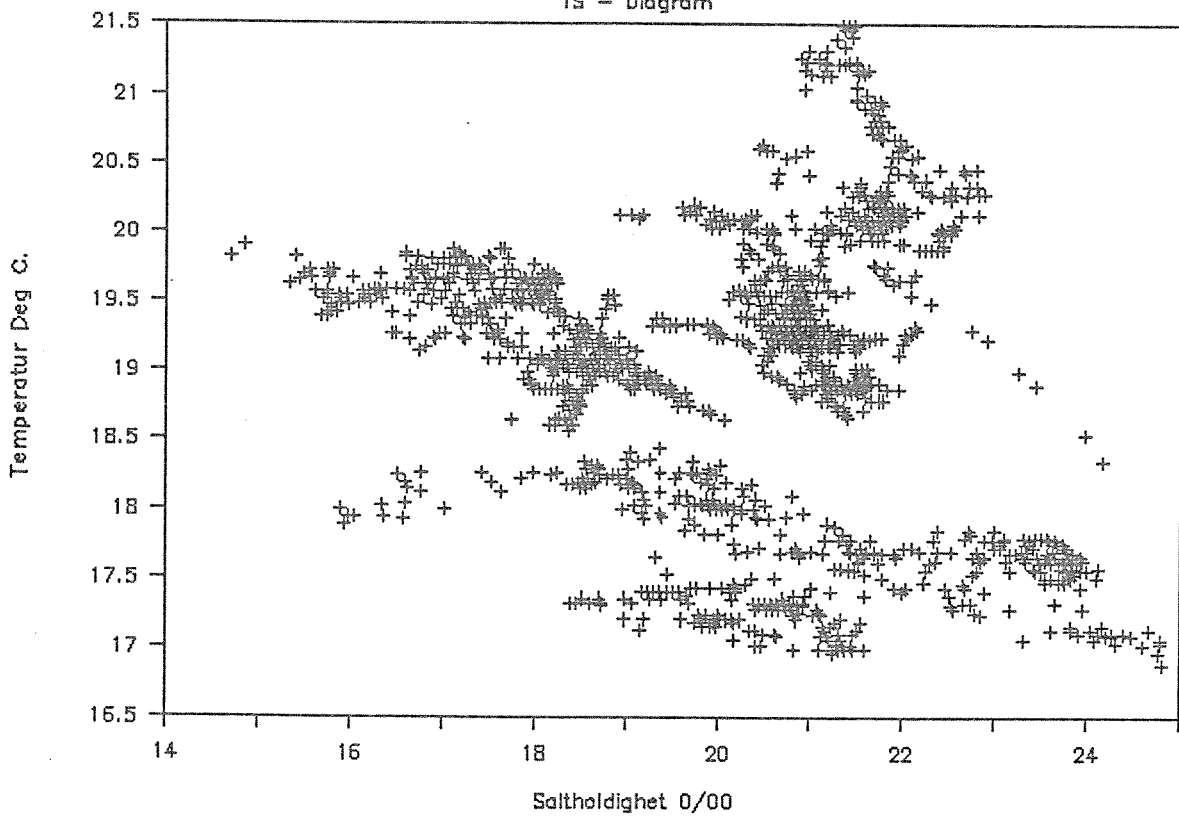
Fuglehuk 5 m.

Tetthet



Fuglehuk 5 m. Juli 1988

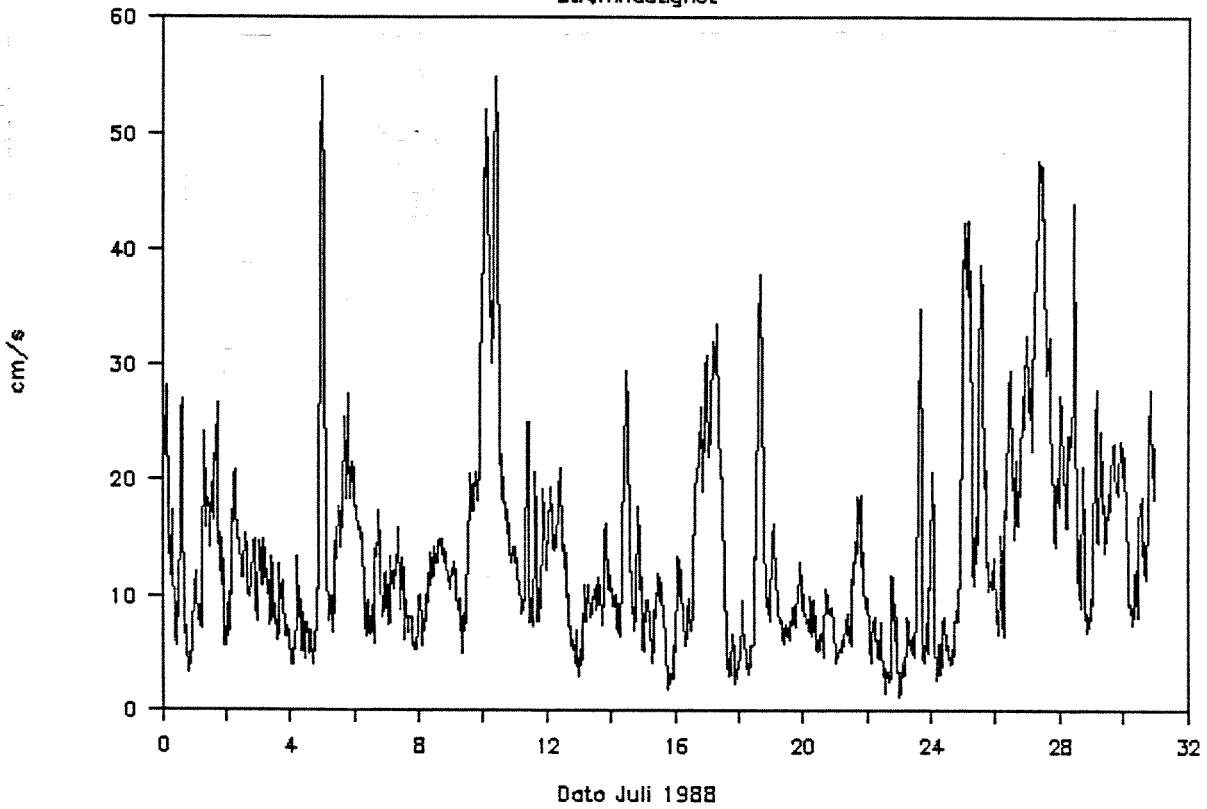
TS - Diagram



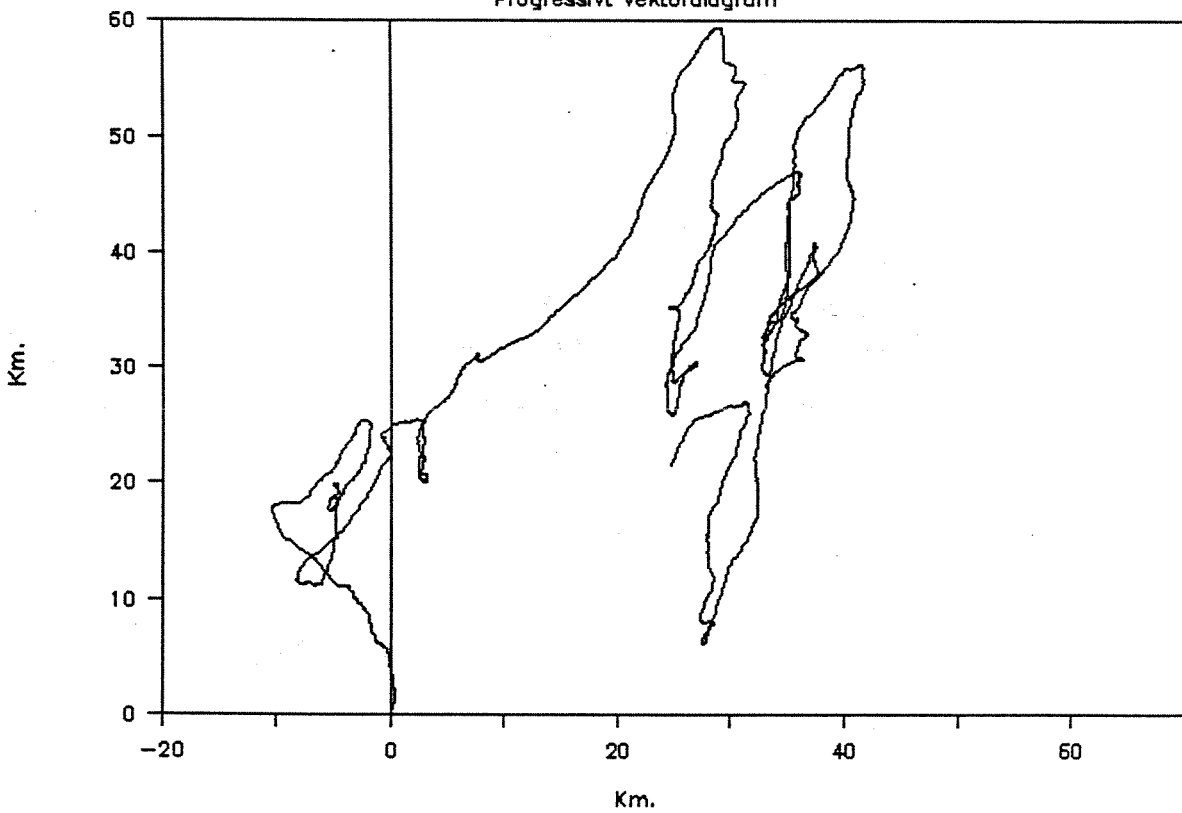
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Fuglehuk 5 m. Strømshastighet



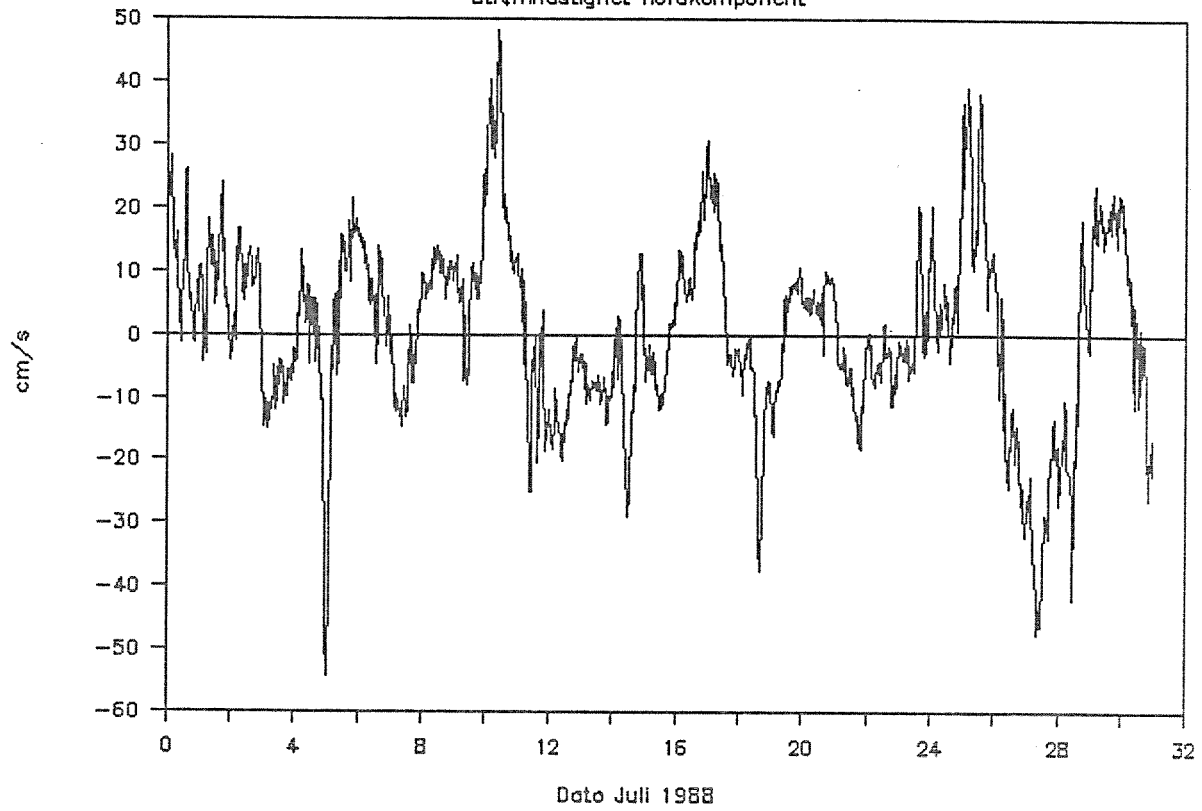
Fuglehuk 5 m. Juli 1988 Progressivt Vektordiagram



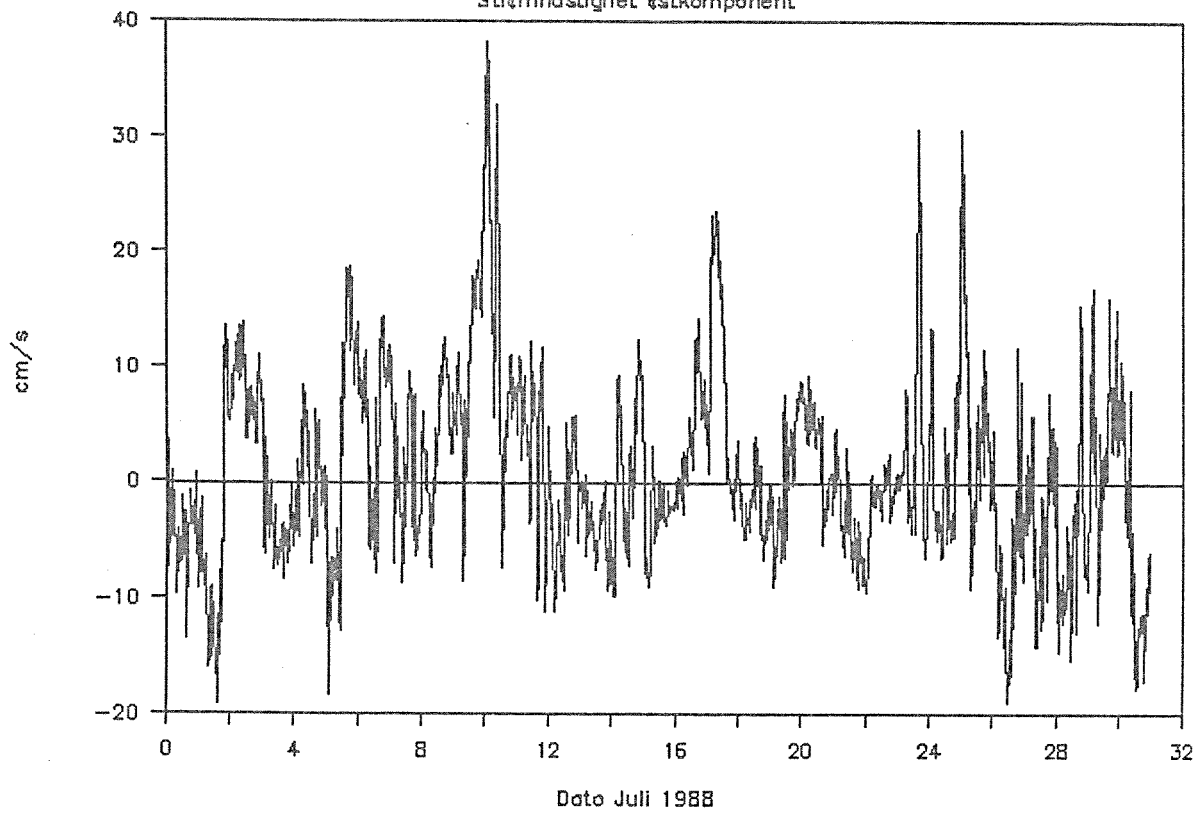
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Fuglehuk 5 m. Strømhastighet nordkomponent

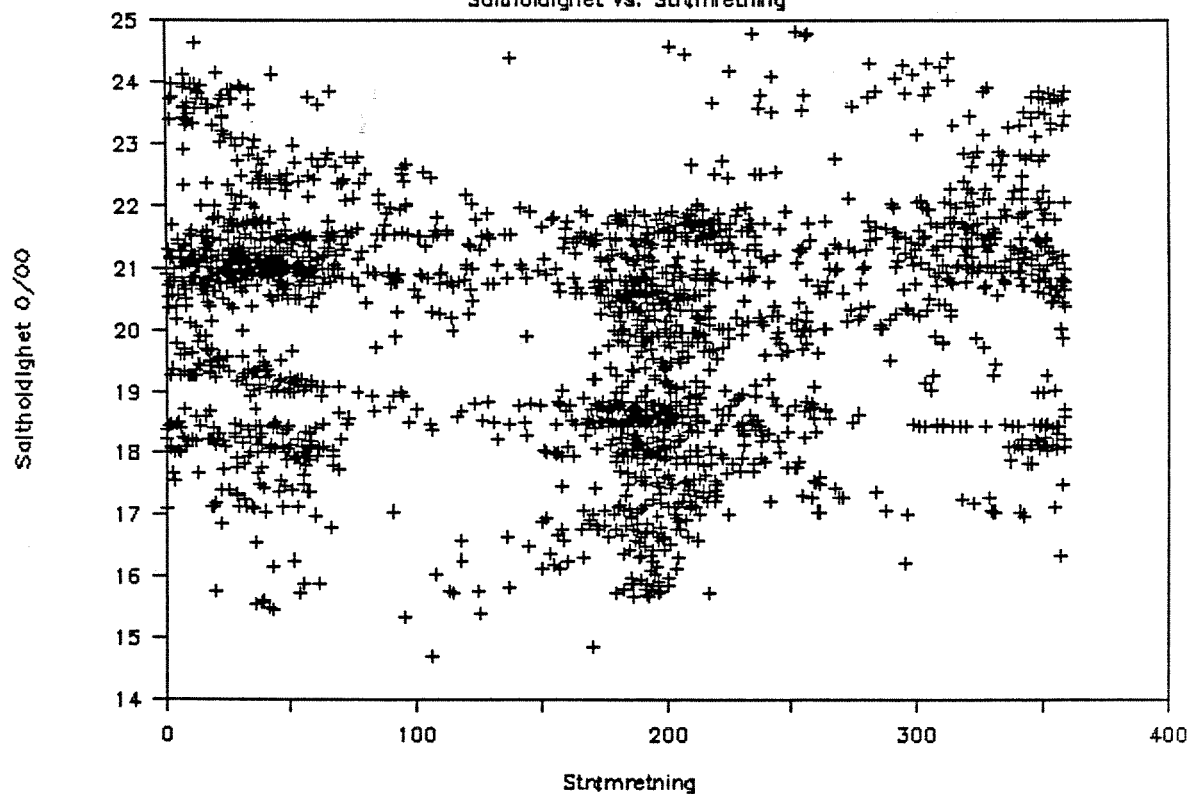


Fuglehuk 5 m. Strømhastighet østkomponent



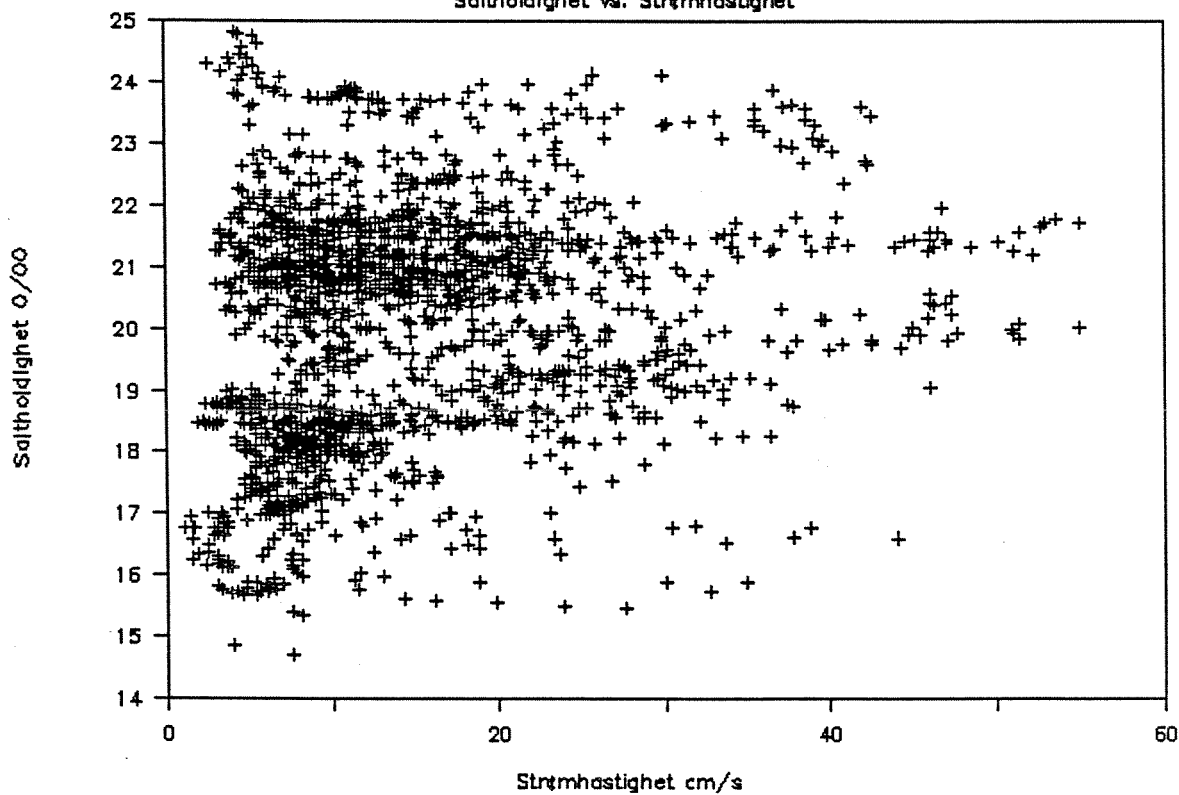
Fuglehuk 5 m. Juli 1988

Saltholdighet vs. Strømretning



Fuglehuk 5 m. Juli 1988

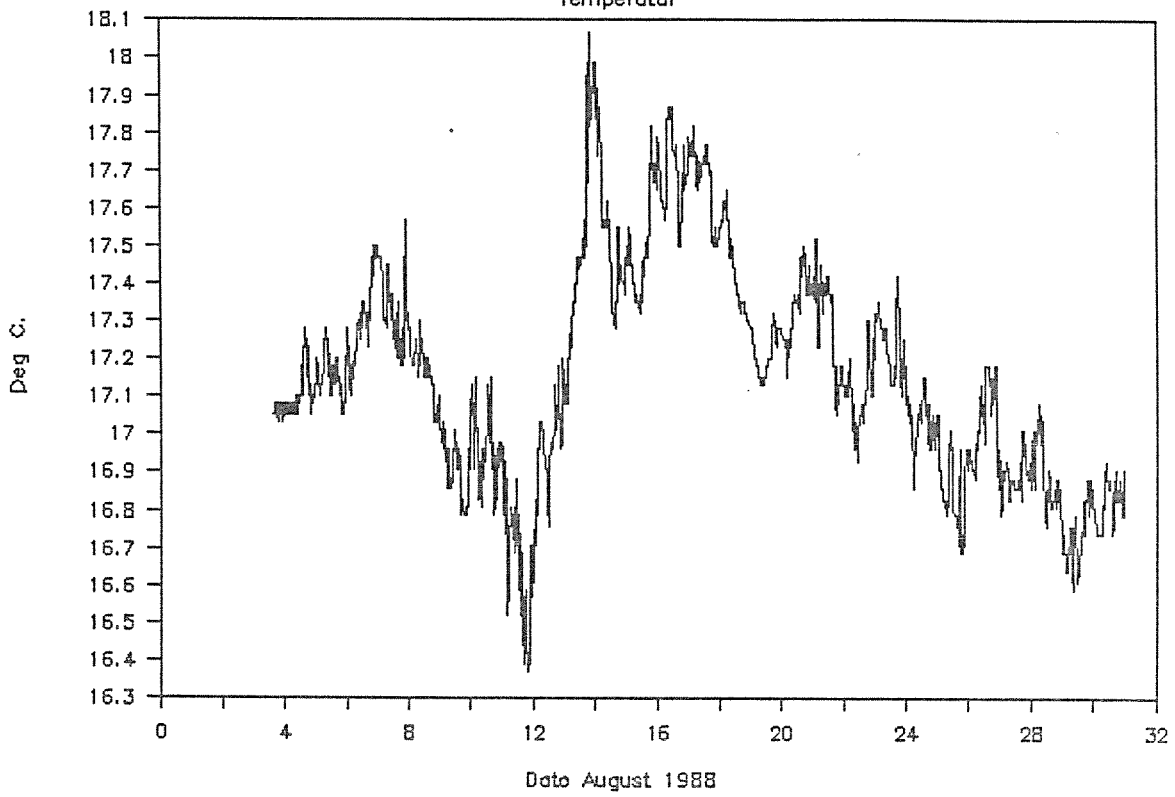
Saltholdighet vs. Strømhastighet



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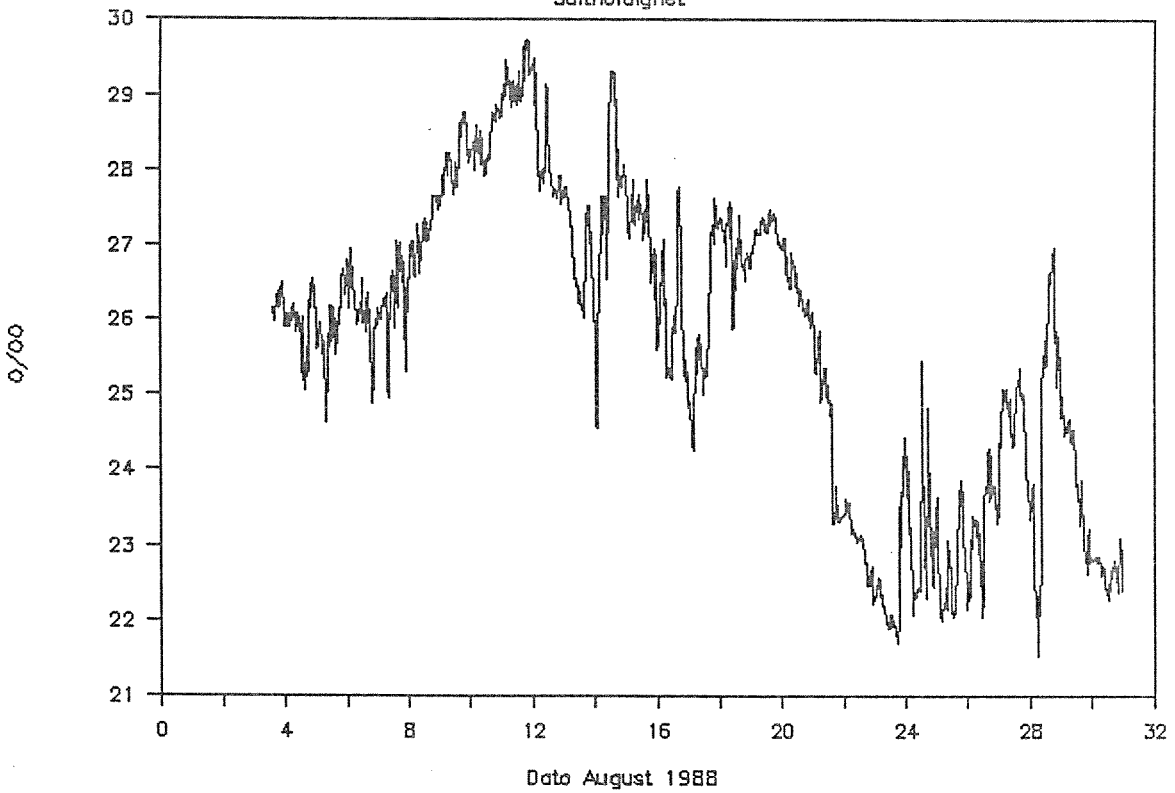
Fuglehuk 5m

Temperatur



Fuglehuk 5 m

Saltholdighet

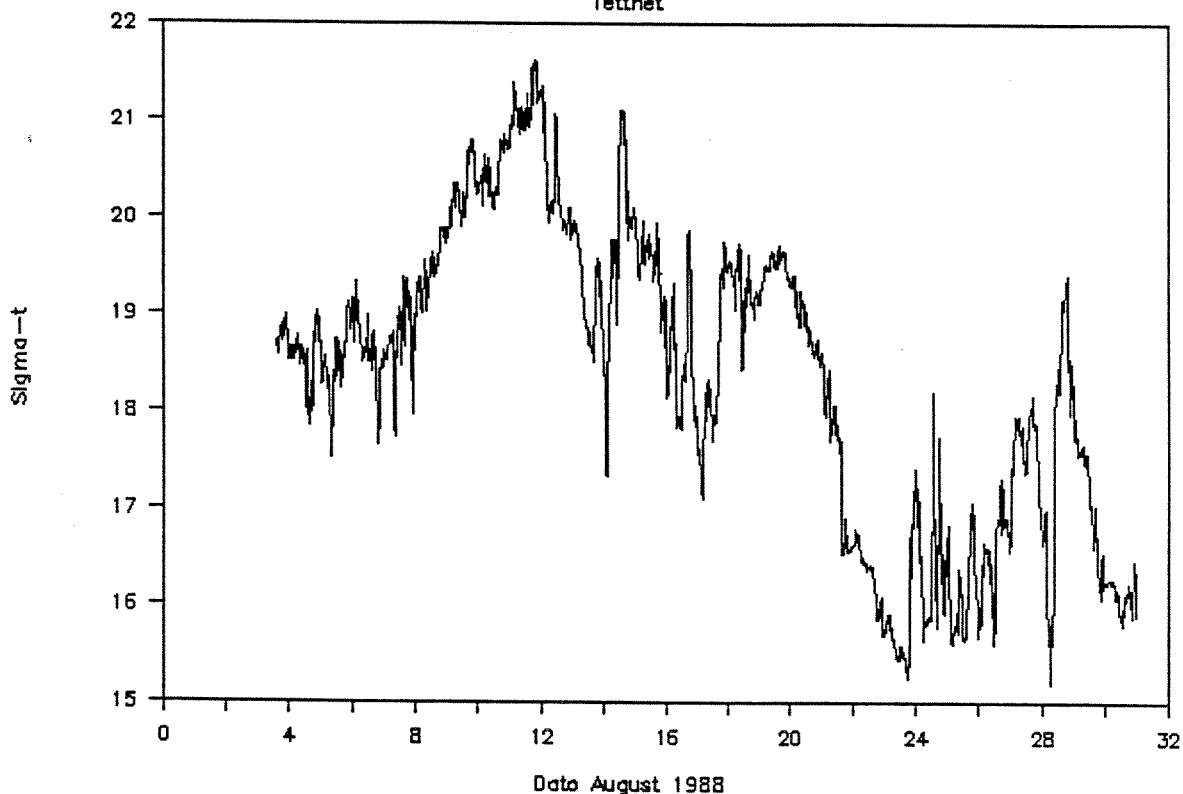


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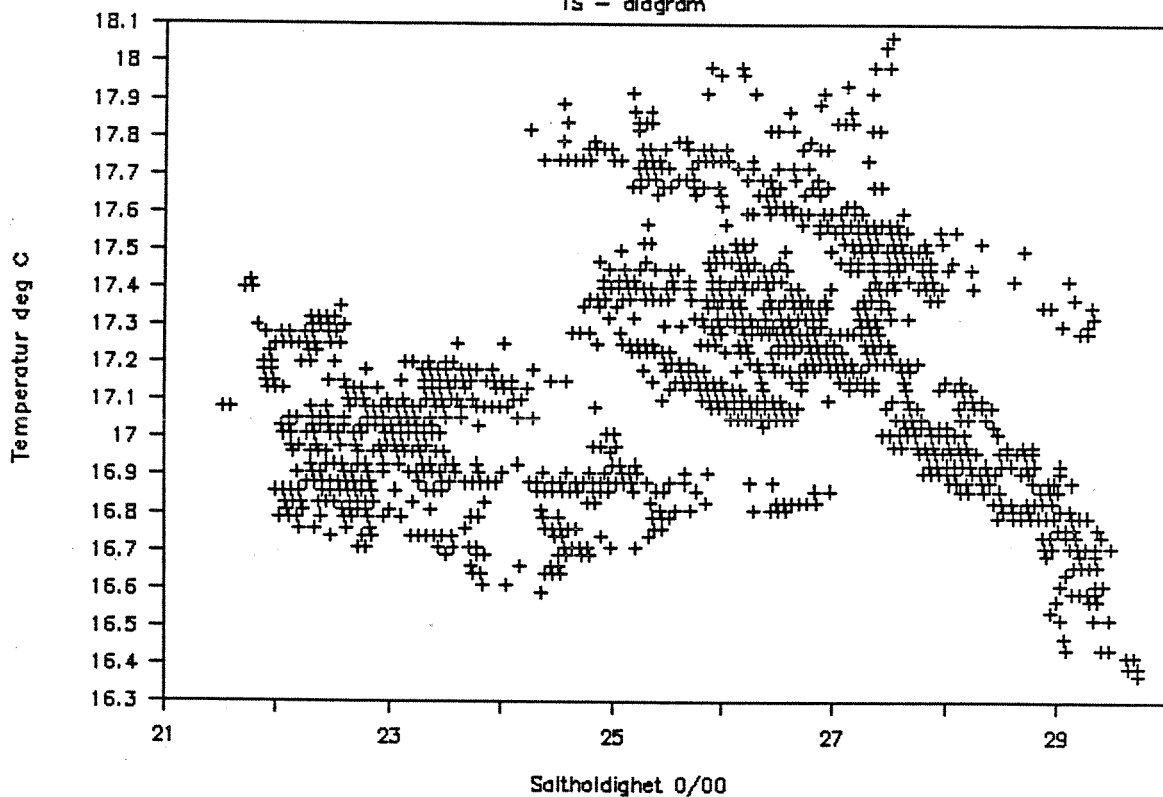
Fuglehuk 5 m

Tetthet



Fuglehuk 5 m August 1988

TS - diagram

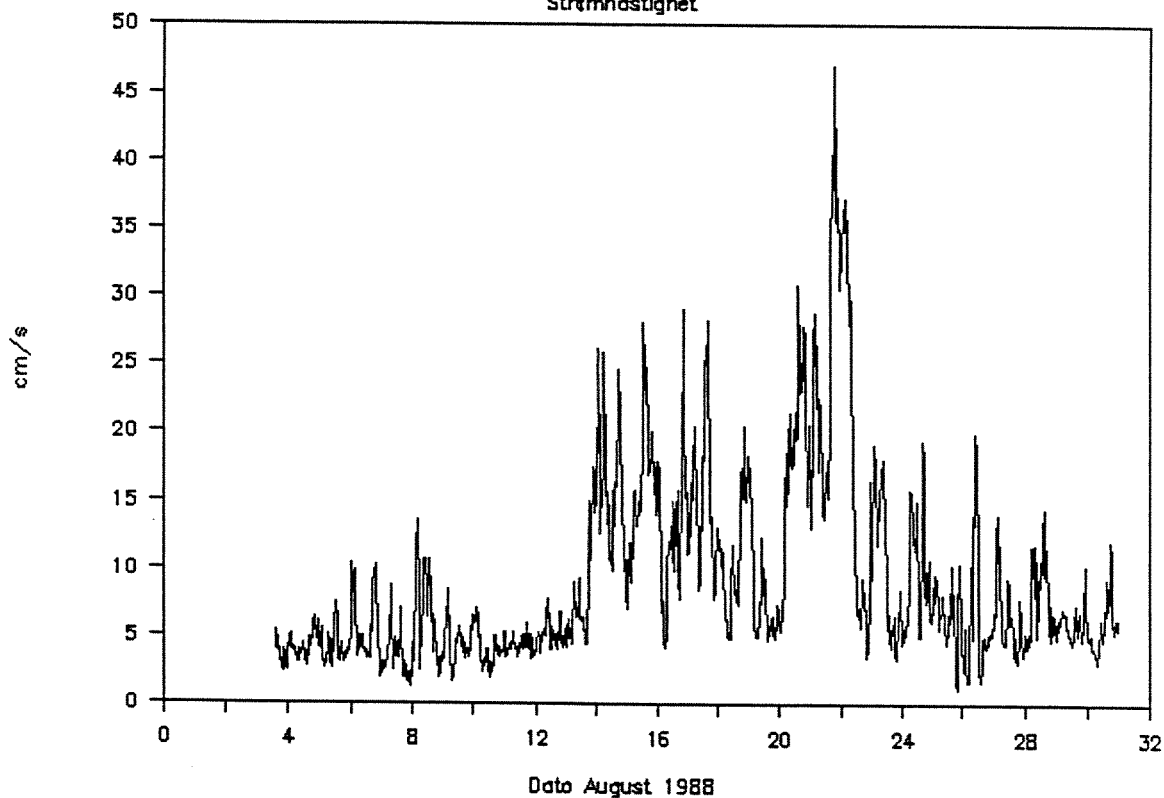


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and Services A/S

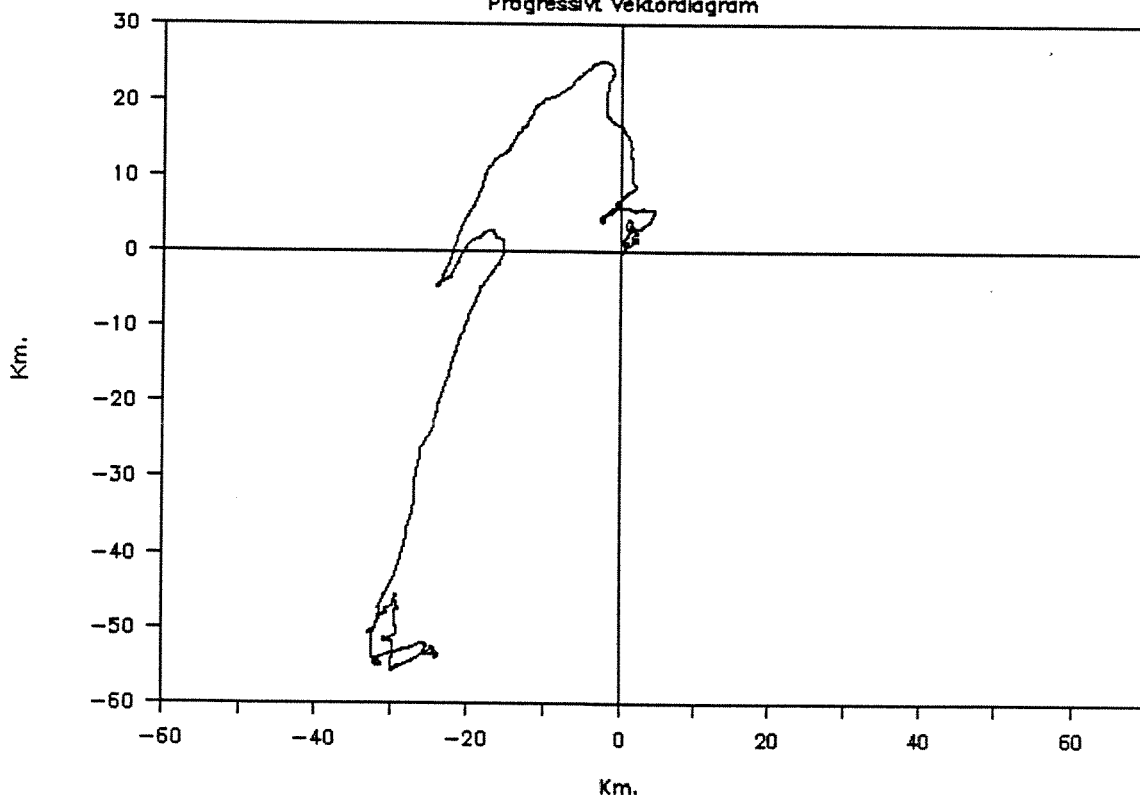
Fuglehuk 5 m

Strømhastighet



Fuglehuk 5 m August 1988

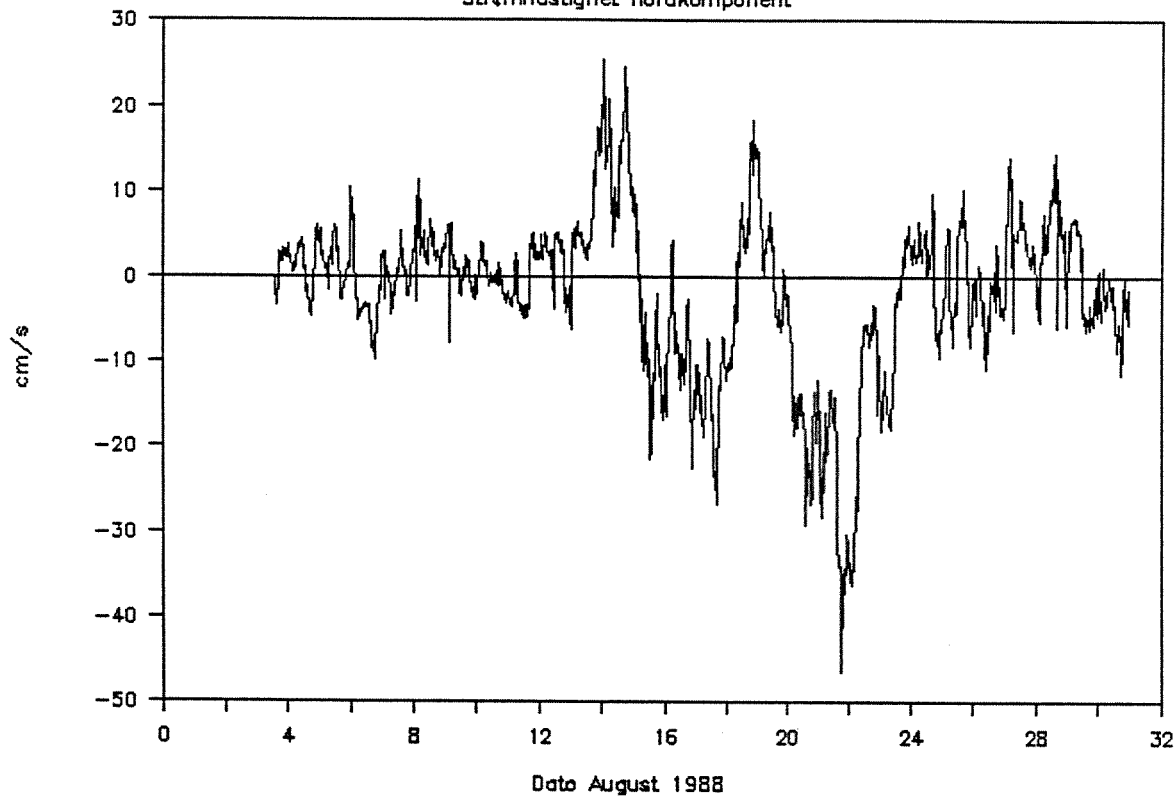
Progressivt Vektordiagram



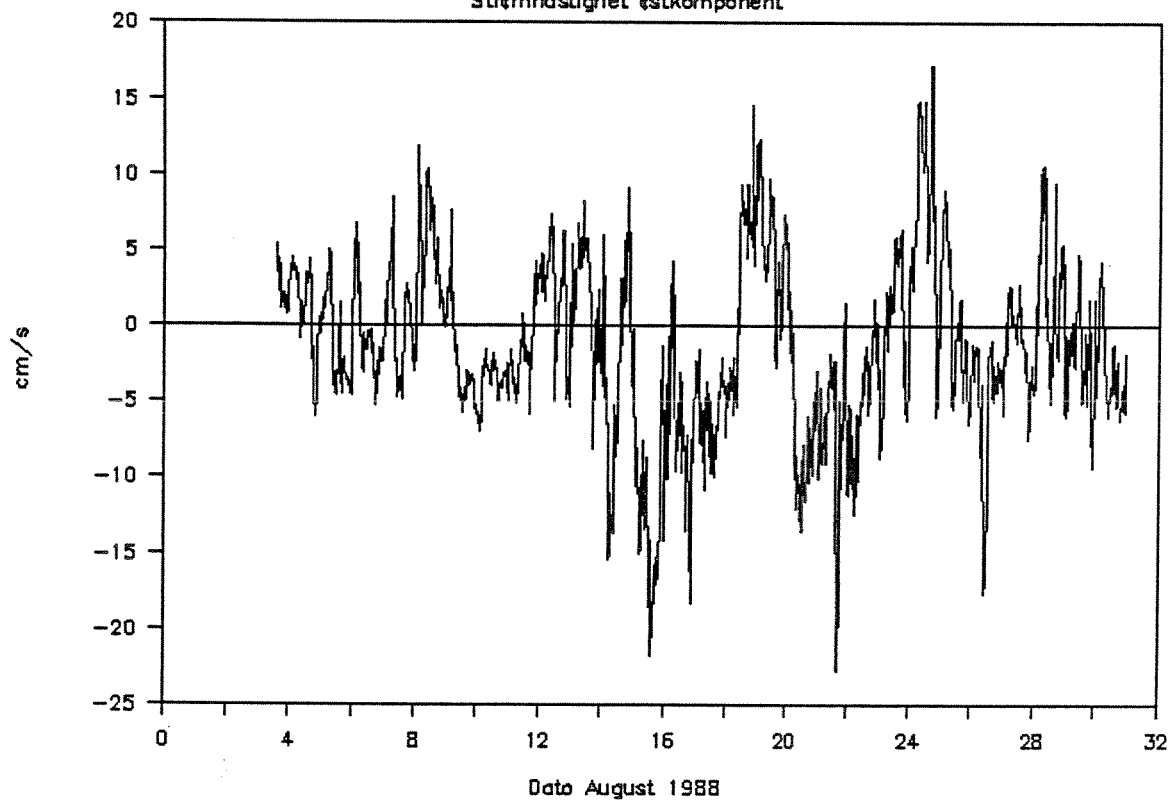
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and Services A/S

Fuglehuk 5 m
Strømhastighet nordkomponent

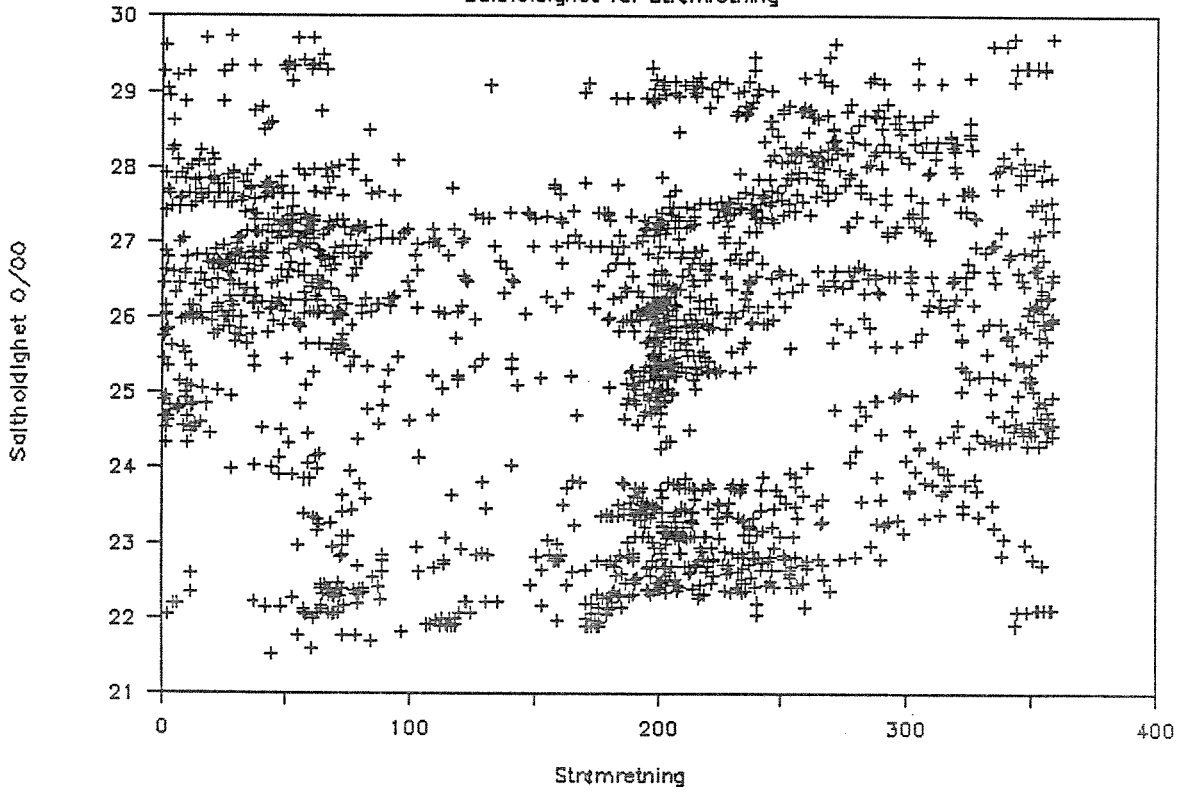


Fuglehuk 5 m
Strømhastighet østkomponent



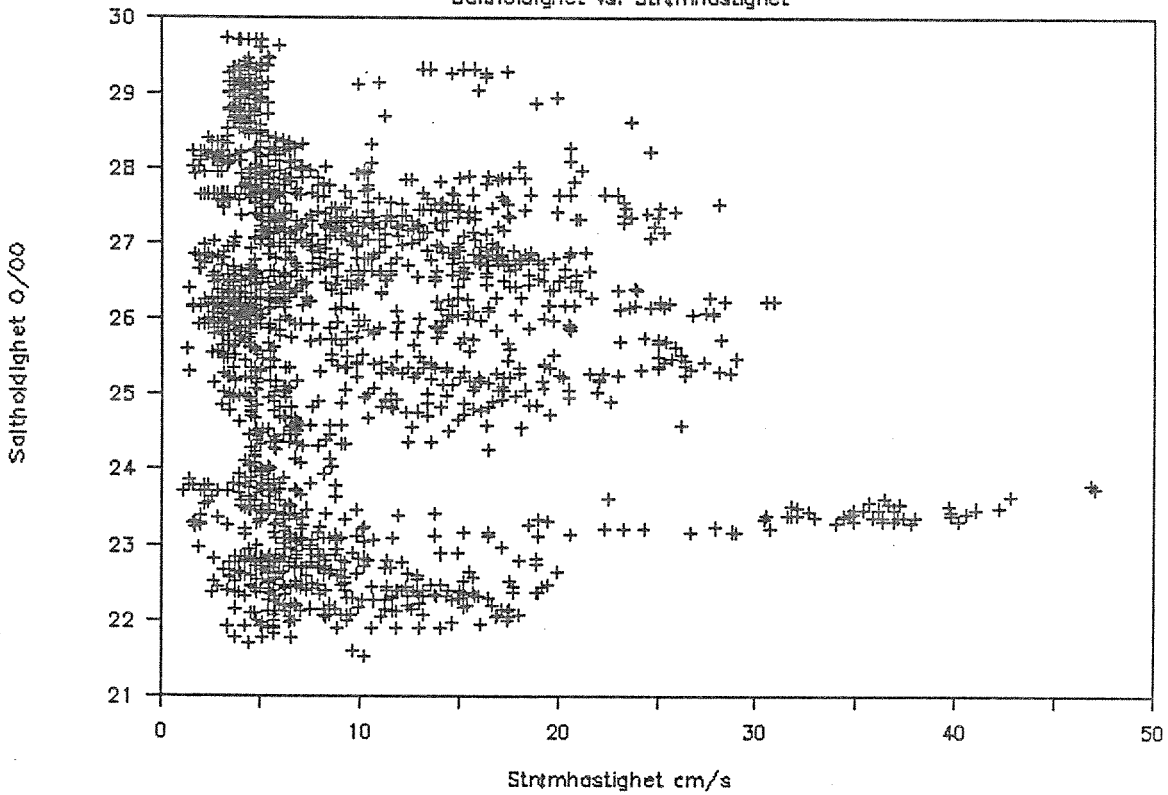
Fuglehuk 5 m August 1988

Saltholdighet vs. Strømretning



Fuglehuk 5 m August 1988

Saltholdighet vs. Strømhastighet

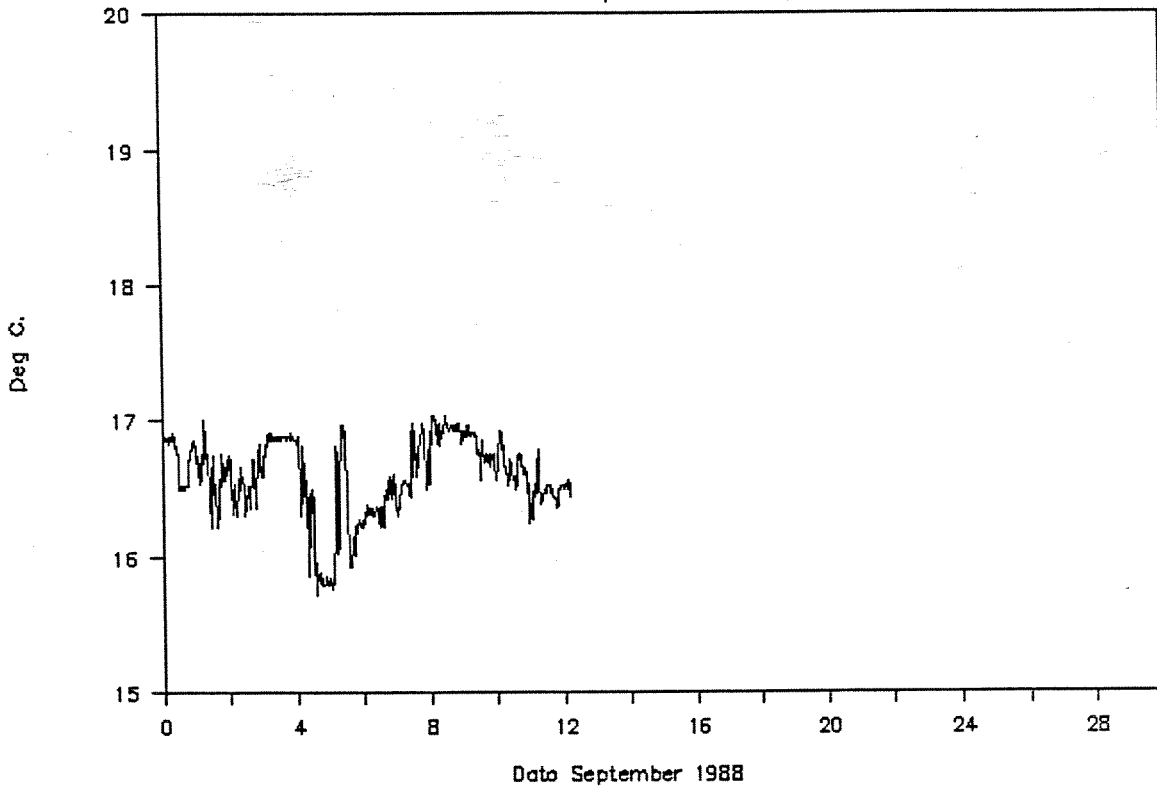


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and Services A/S

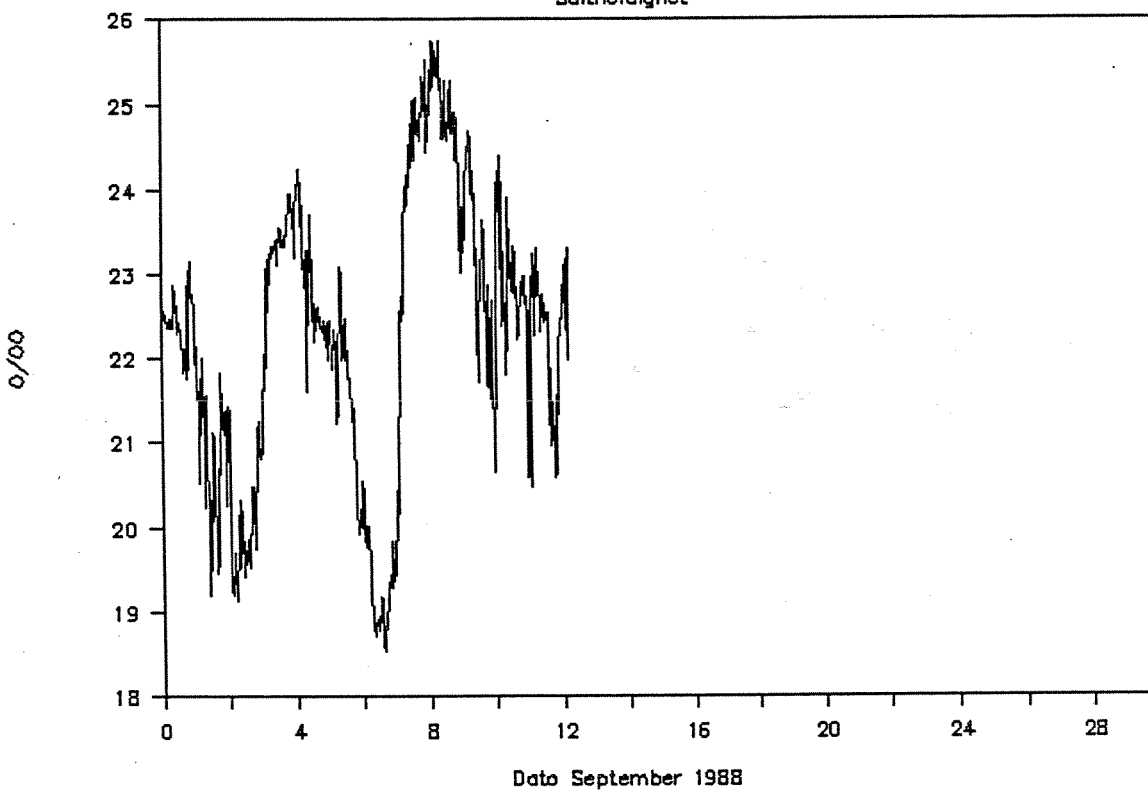
Fuglehuk 5 m

Temperatur



Fuglehuk 5 m

Saltholdighet

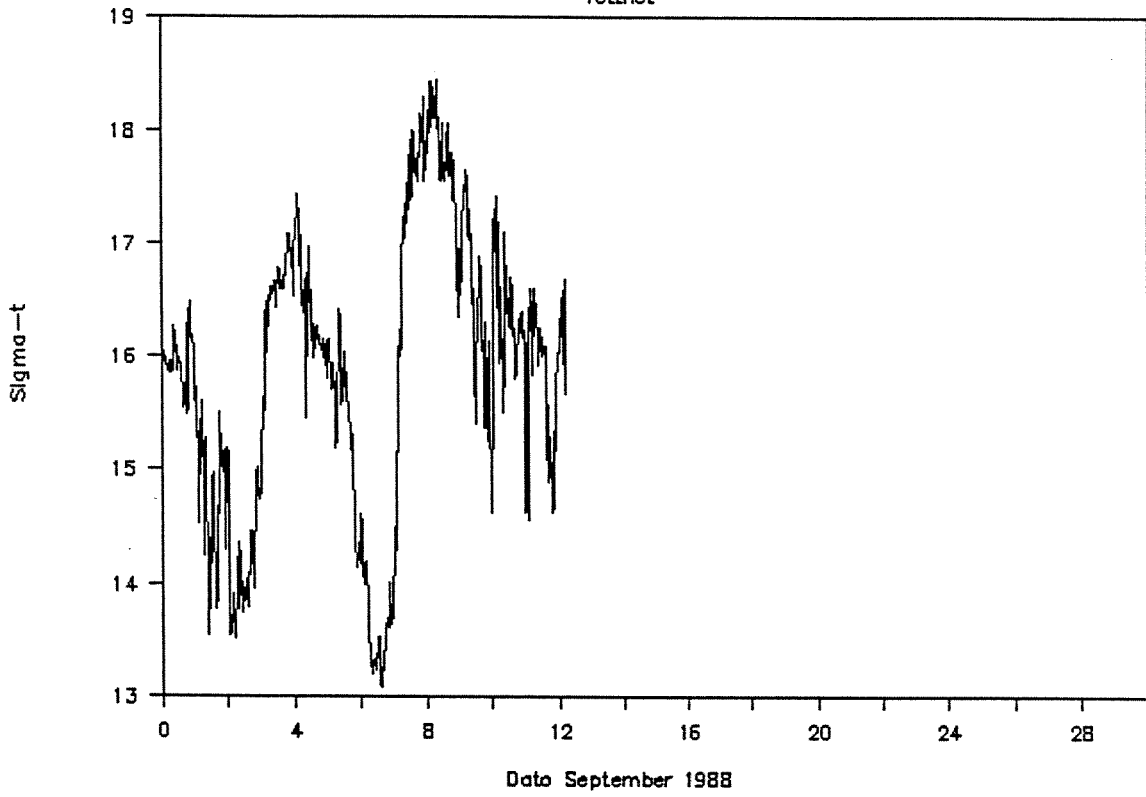


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and Services A/S

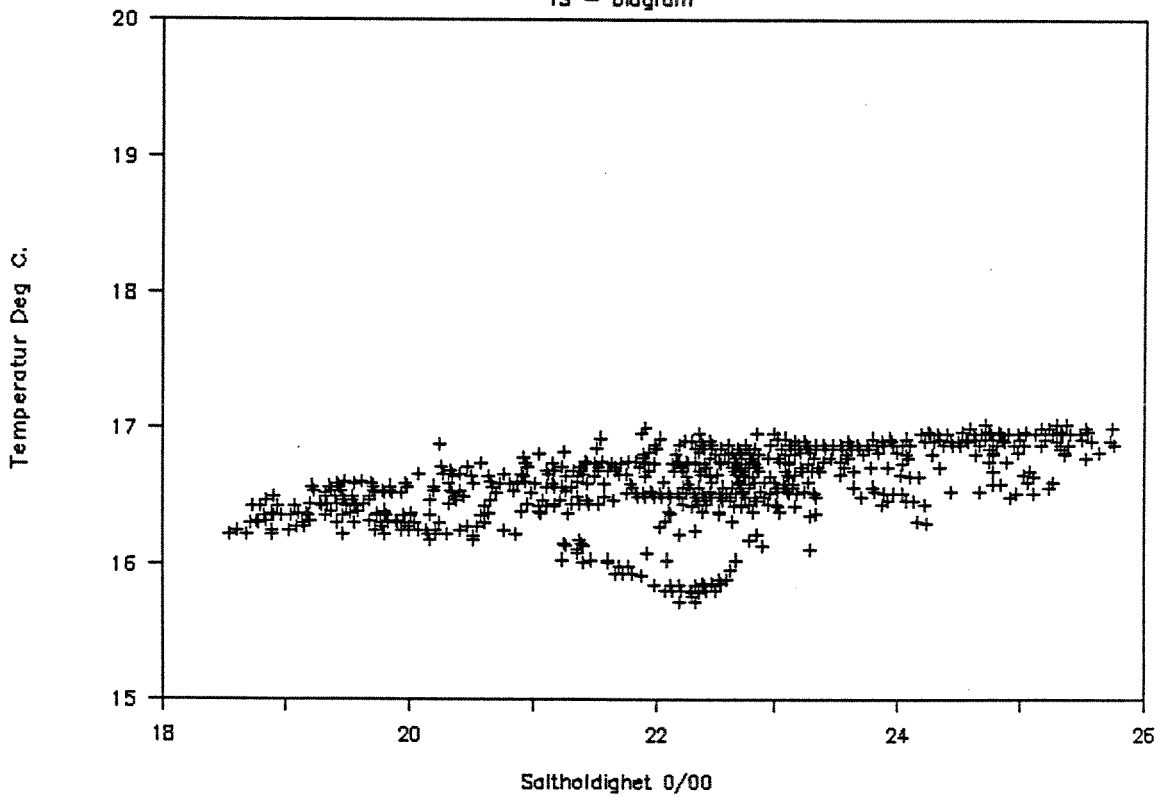
Fuglehuk 5 m

Tetthet



Fuglehuk 5 m September 1988

TS - Diagram

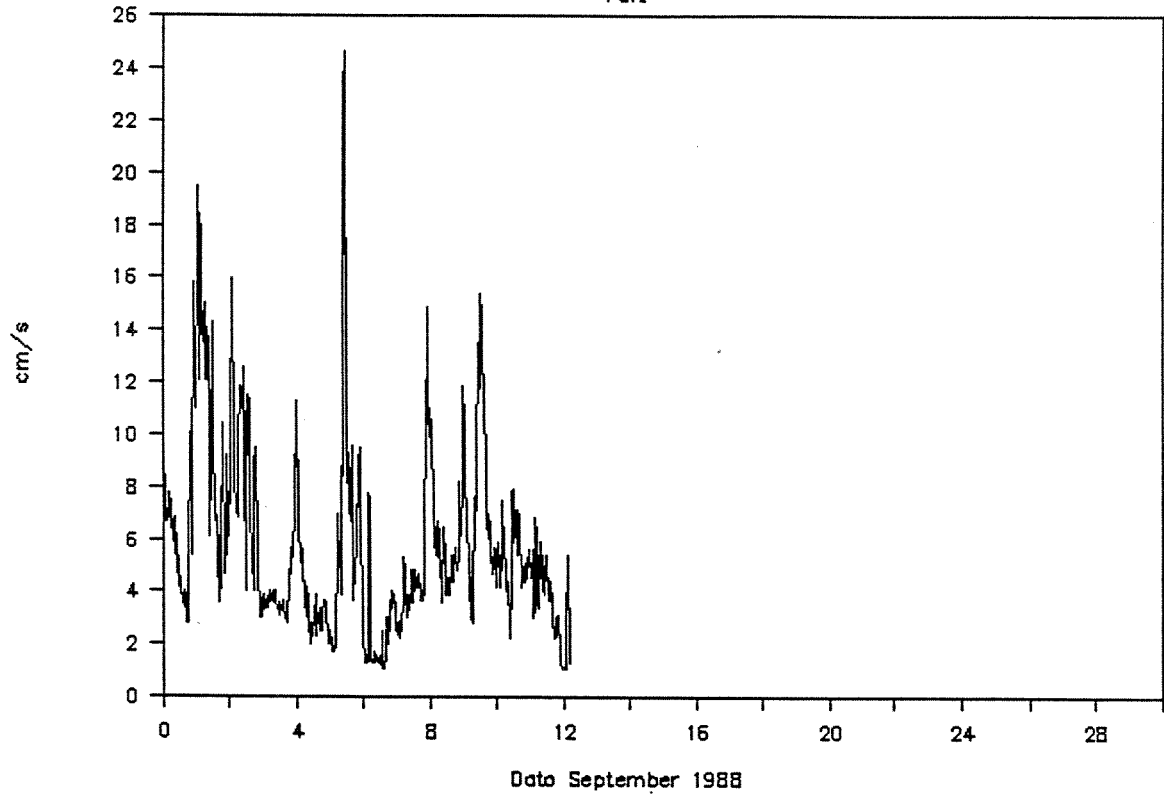


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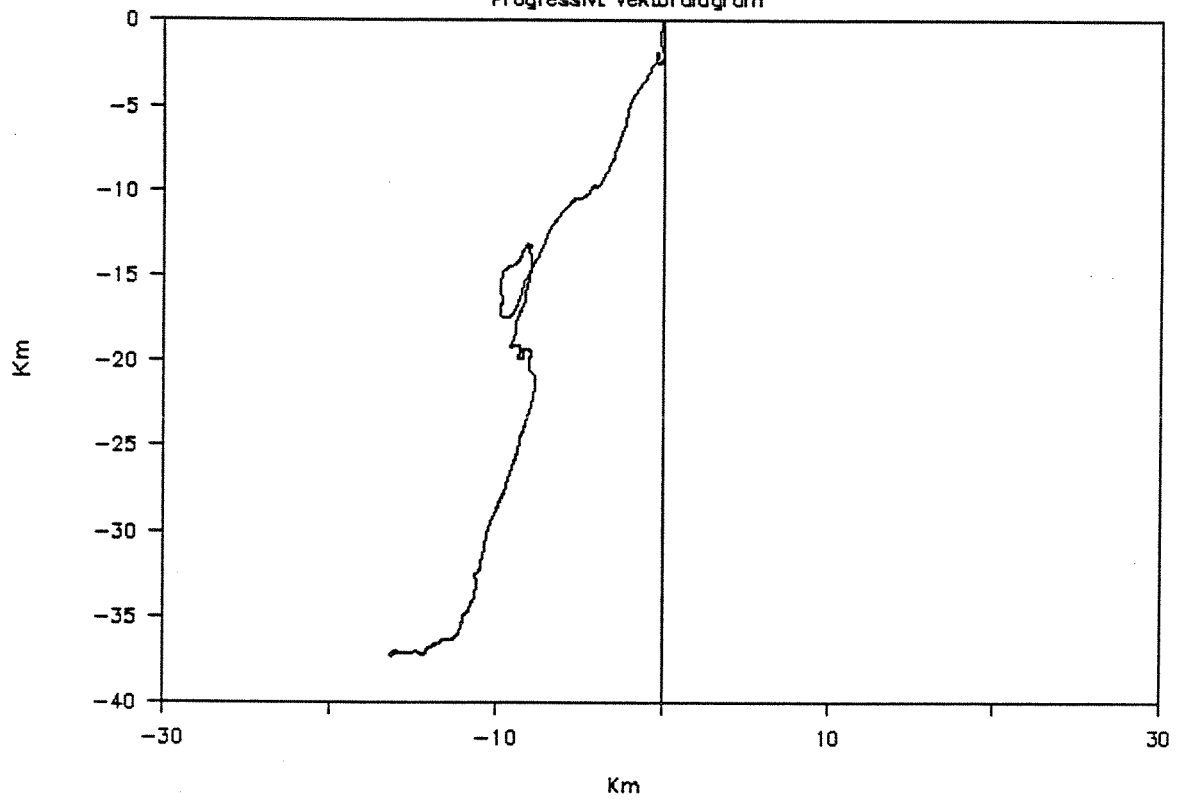
Fuglehuk 5 m

Fart



Fuglehuk 5 m September 1988

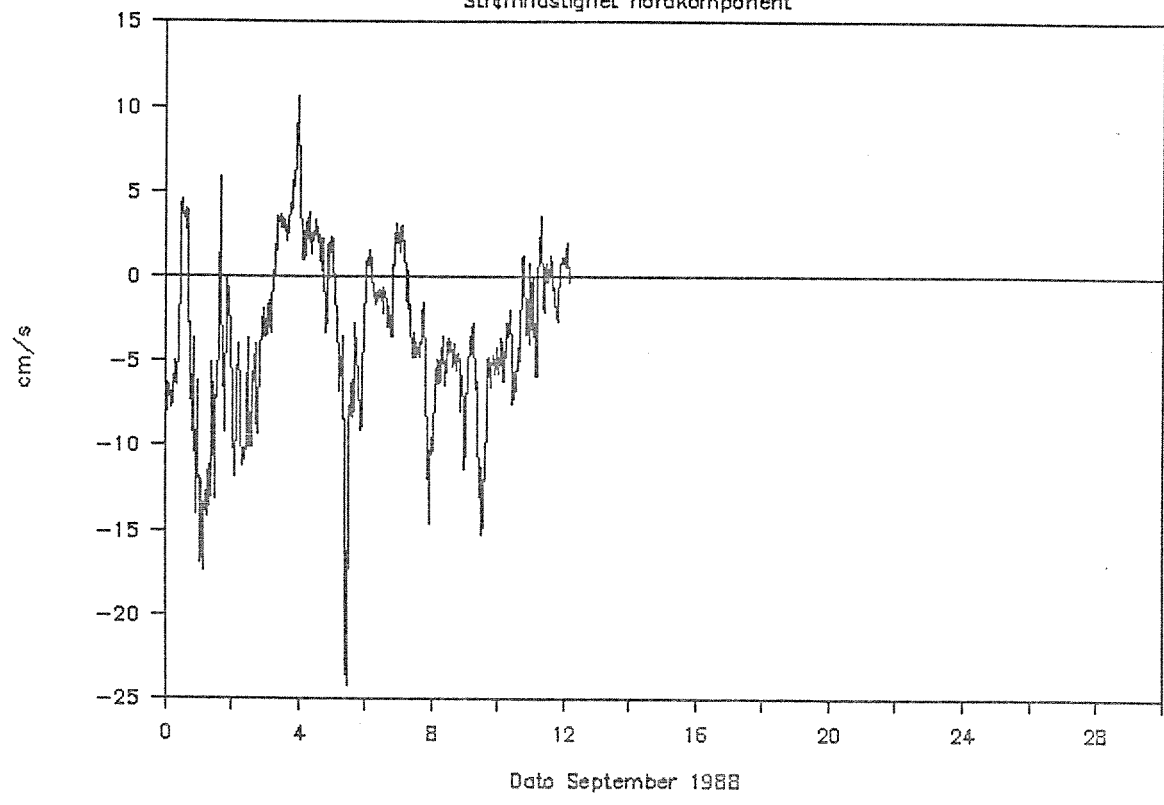
Progressivt vektordiagram



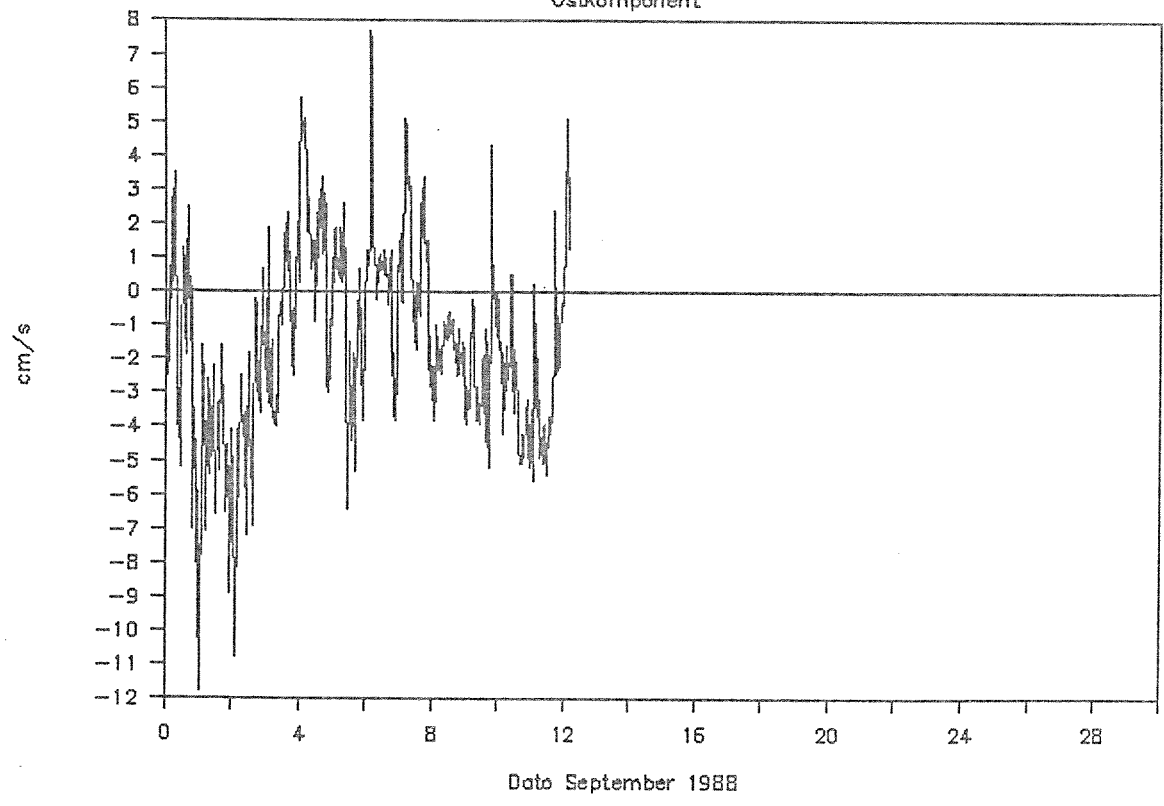
VERITEC

Veritas Offshore Technology and Services A/S

Fuglehuk 5 m Strømhastighet nordkomponent

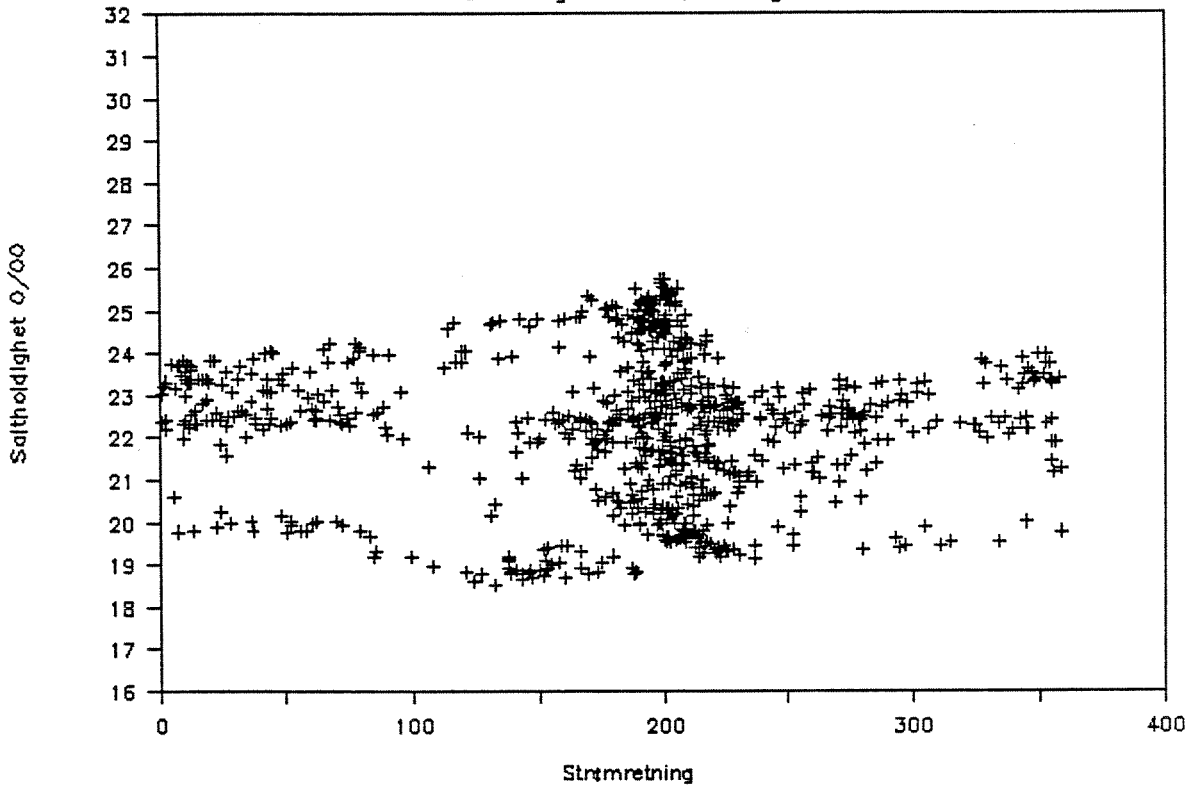


Fuglehuk 5 m Østkomponent



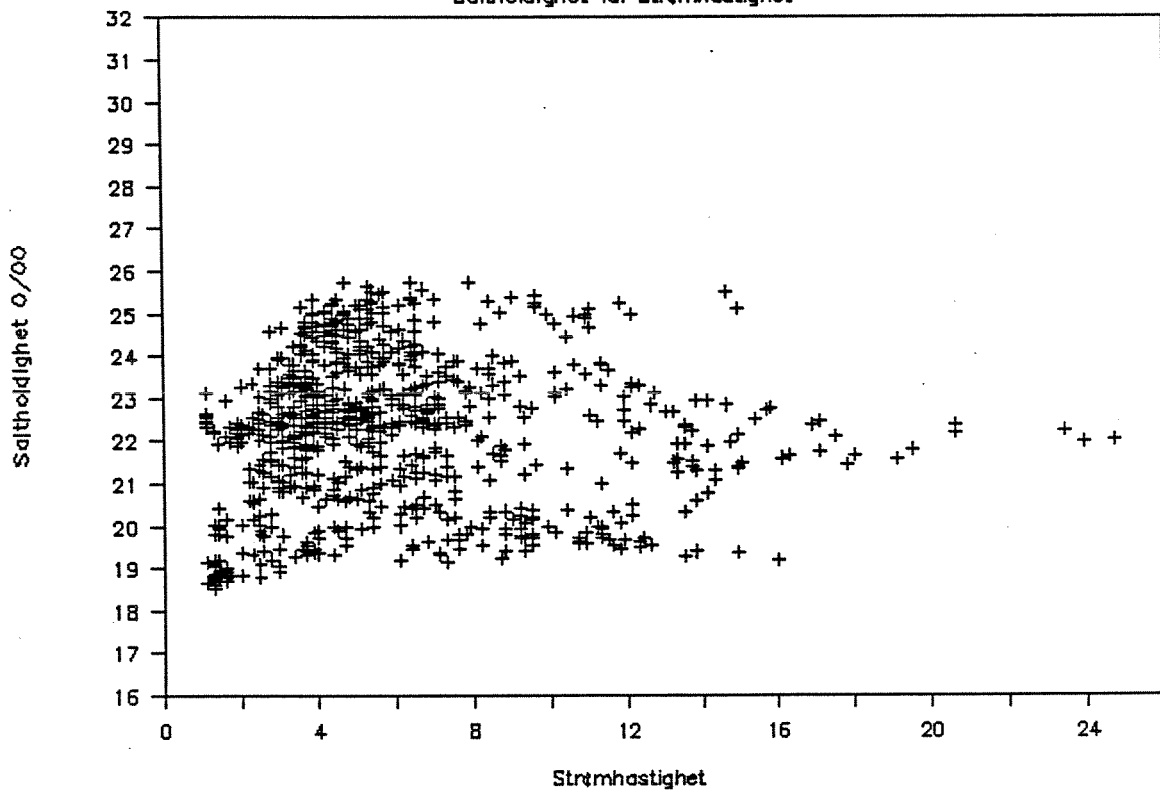
Fuglehuk 5 m September 1988

Saltholdighet vs. Strømretning



Fuglehuk 5 m September 1988

Saltholdighet vs. Strømhastighet

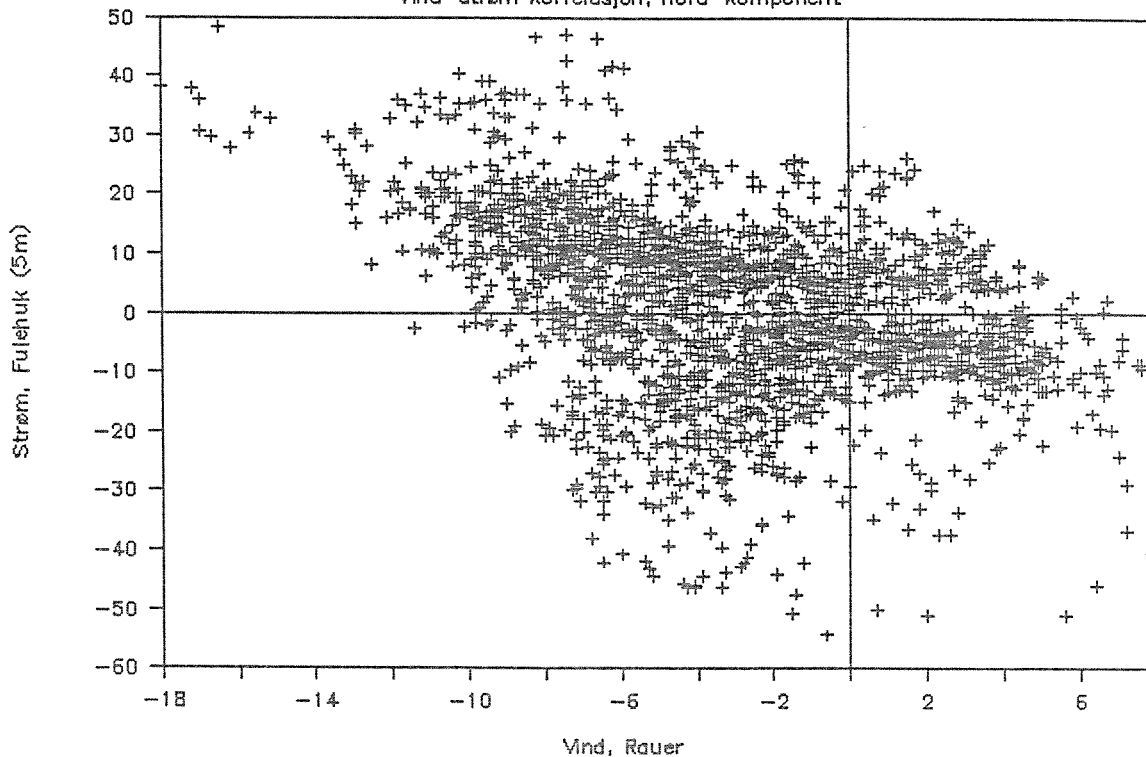


VERITEC

Veritas Offshore Technology
and Services A/S

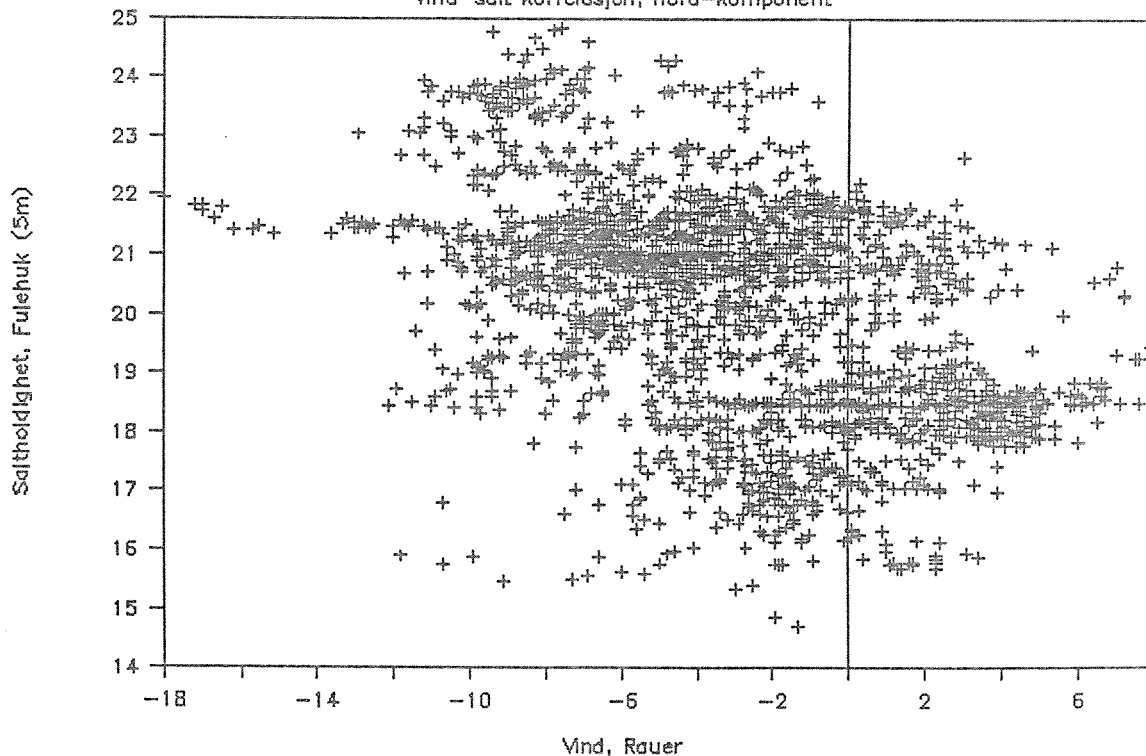
Oslofjord juli 1988

Vind-strøm korrelasjon, nord-komponent



Oslofjord juli 1988

Vind-salt korrelasjon, nord-komponent

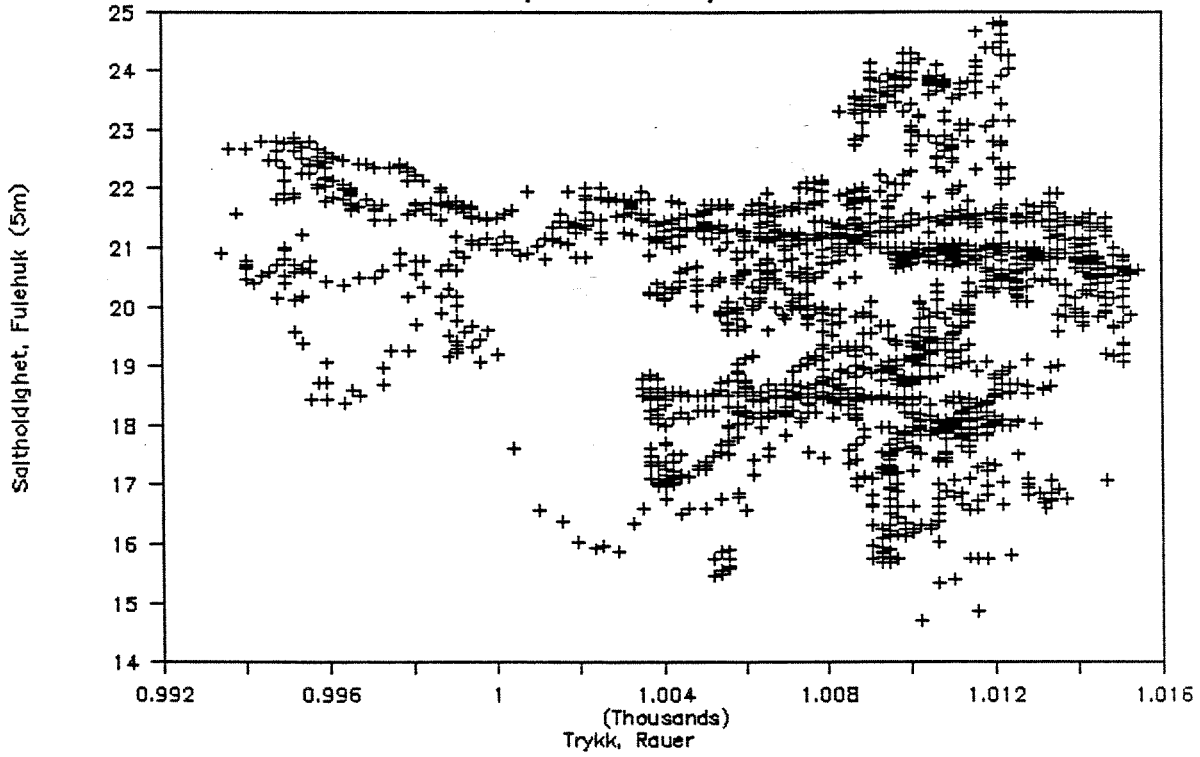


VERITEC

Veritas Offshore Technology
and Services A/S

Oslofjord juli 1988

Trykk-salt korrelasjon



VERITEC

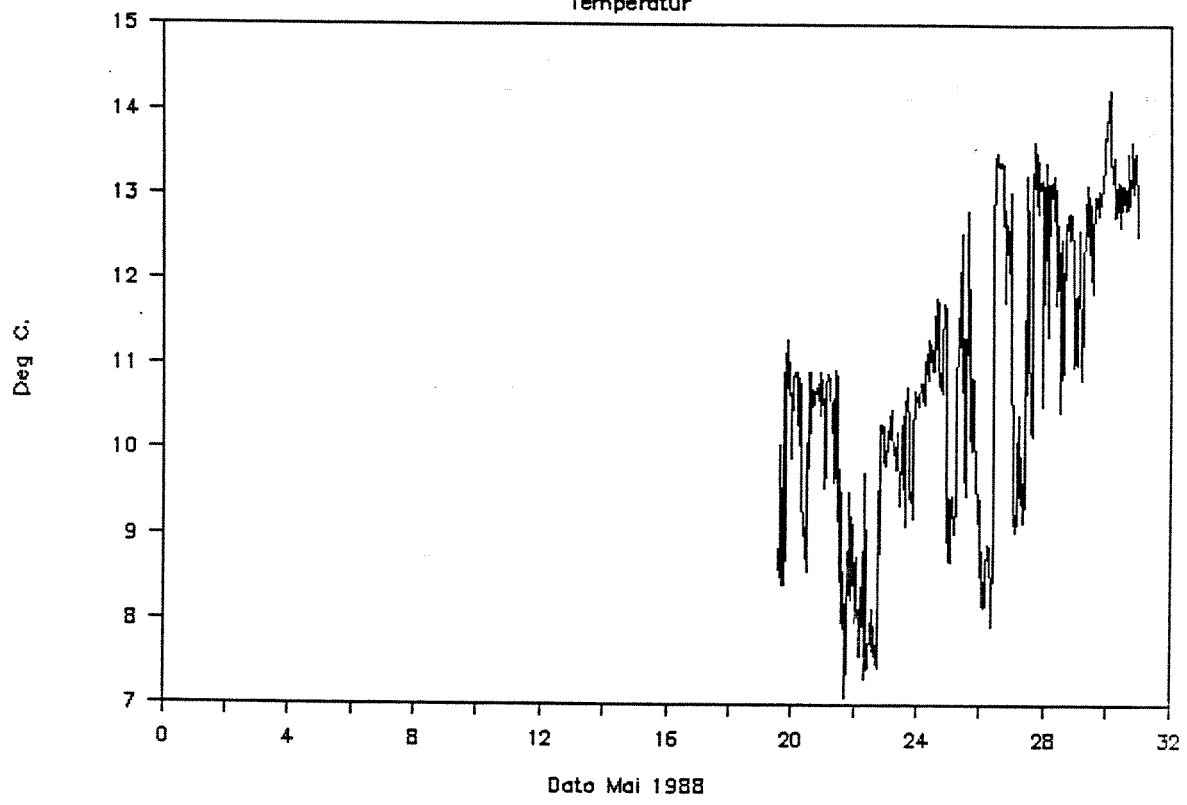
Veritas Offshore Technology
and Services A/S

FINAL ANALYSIS RESULTS IN CURRENT ELLIPSE FORM
 FOR STATION 9999, GRISEBAADENE 10 METERS, AT THE LOCATION 58 54, 10 48
 OVER THE PERIOD OF 14HR 20/ 5/88 TO 13HR 9/ 8/88
 GREENWICH PHASES ARE FOR TIME ZONE GMT

NAME	SPEED	MAJOR	MINOR	INC	G	G+	G-
1 Z0	.00000000	141.157	.000	126.8	360.0	233.2	126.8
2 MM	.00151215	143.358	25.032	115.3	296.4	181.1	51.7
3 MSF	.00282193	88.608	-28.970	107.4	76.5	329.1	184.0
4 ALP1	.03439657	25.323	-2.189	50.8	154.9	104.1	205.7
5 2Q1	.03570635	16.281	-9.674	51.2	268.4	217.1	319.6
6 Q1	.03721850	12.168	5.910	161.3	80.5	279.2	241.8
7 O1	.03873065	8.121	-2.393	42.8	148.1	105.3	190.8
8 NO1	.04026860	18.152	-7.727	118.9	328.1	209.2	87.0
9 K1	.04178075	18.316	13.119	64.9	328.2	263.2	33.1
10 J1	.04329290	16.649	-3.803	63.7	305.9	242.2	9.5
11 O01	.04483084	9.614	.731	104.2	87.5	343.2	191.7
12 UPS1	.04634299	16.526	-1.259	27.5	348.6	321.1	16.0
13 EPS2	.07617731	20.165	-8.527	81.4	14.8	293.4	96.2
14 MU2	.07768947	13.027	5.057	130.2	311.5	181.3	81.7
15 N2	.07899925	19.574	-6.703	89.7	102.8	13.1	192.5
16 M2	.08051140	28.147	5.226	78.4	92.1	13.7	170.5
17 L2	.08202355	40.743	-27.219	130.6	53.4	282.8	183.9
18 S2	.08333334	6.329	-1.174	2.7	207.4	204.7	210.1
19 ETA2	.08507364	12.080	-2.826	67.4	234.2	166.8	301.7
20 MO3	.11924210	5.891	.635	99.2	117.9	18.7	217.2
21 M3	.12076710	10.155	-2.401	95.0	333.1	238.1	68.1
22 MK3	.12229210	7.381	2.114	140.6	254.4	113.8	35.0
23 SK3	.12511410	13.769	-.993	73.3	311.8	238.5	25.1
24 MN4	.15951060	6.691	-3.656	124.2	340.6	216.4	104.8
25 M4	.16102280	9.768	.793	102.5	344.4	241.9	86.8
26 SN4	.16233260	5.203	-1.840	58.6	80.2	21.6	138.8
27 MS4	.16384470	9.737	-3.421	178.8	334.7	155.9	153.6
28 S4	.16666670	11.809	-7.727	158.1	23.3	225.2	181.3
29 2MK5	.20280360	6.419	-.520	86.4	264.2	177.9	350.6
30 2SK5	.20844740	6.008	-1.768	23.3	315.0	291.7	338.3
31 2MN6	.24002200	4.485	3.894	28.7	309.9	281.2	338.7
32 M6	.24153420	3.331	-.218	13.0	136.6	123.5	149.6
33 2MS6	.24435610	1.993	-1.613	45.8	312.2	266.5	358.0
34 2SM6	.24717810	4.113	.740	163.2	156.9	353.7	320.2
35 3MK7	.28331490	5.222	-1.552	100.1	50.4	310.4	150.5
36 M8	.32204560	3.228	-.990	55.5	22.1	326.6	77.7

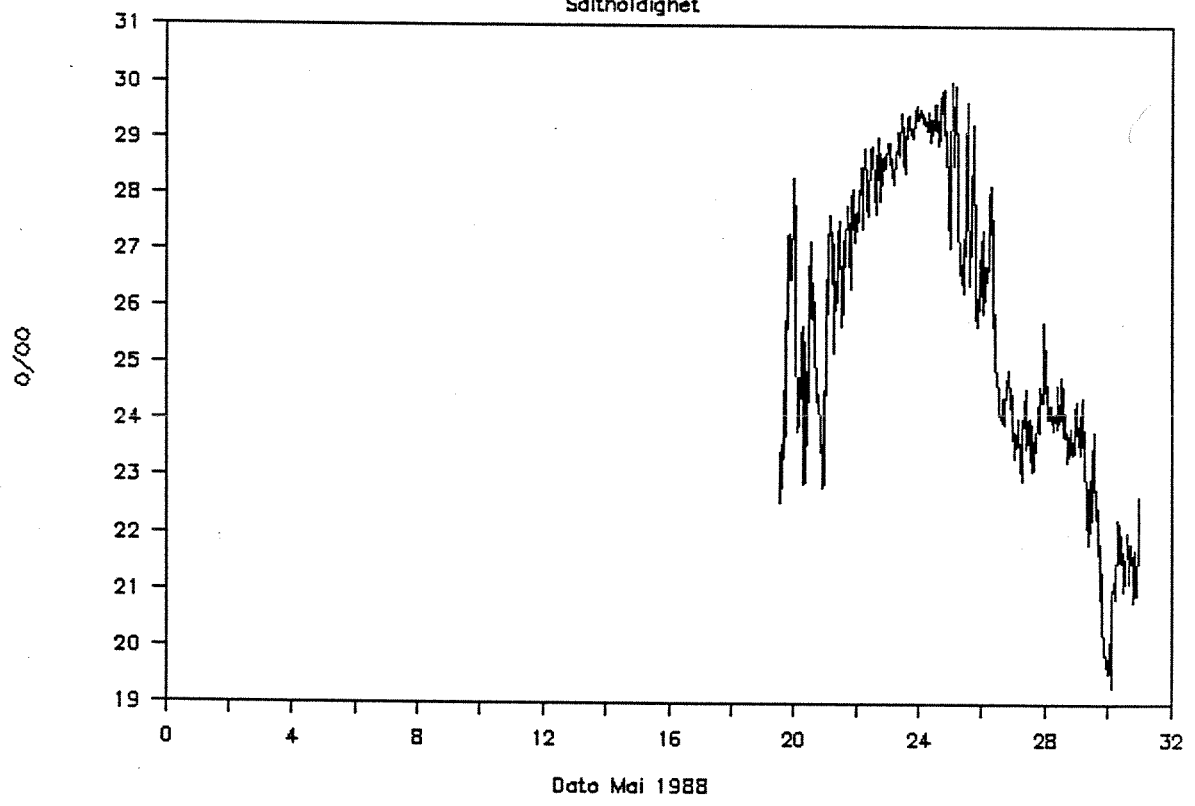
Grisebådarna 10 m.

Temperatur



Grisebådarna 10 m.

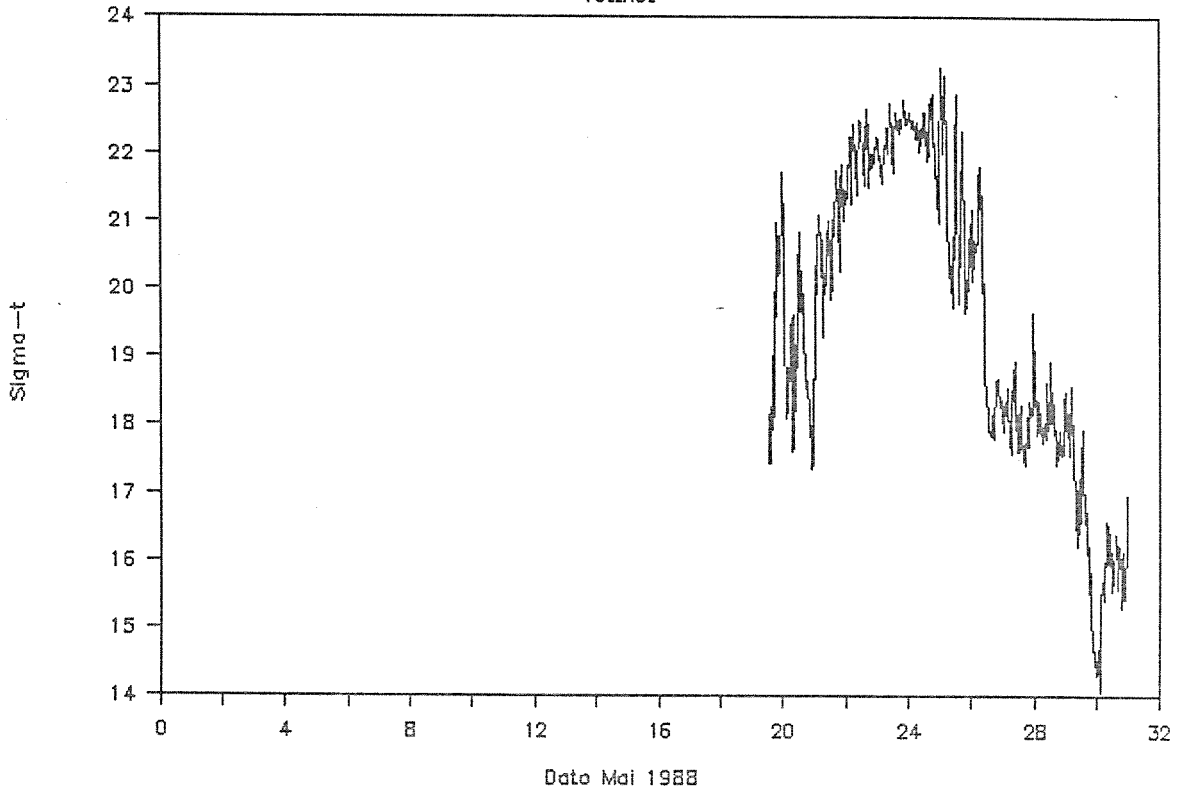
Saltholdighet



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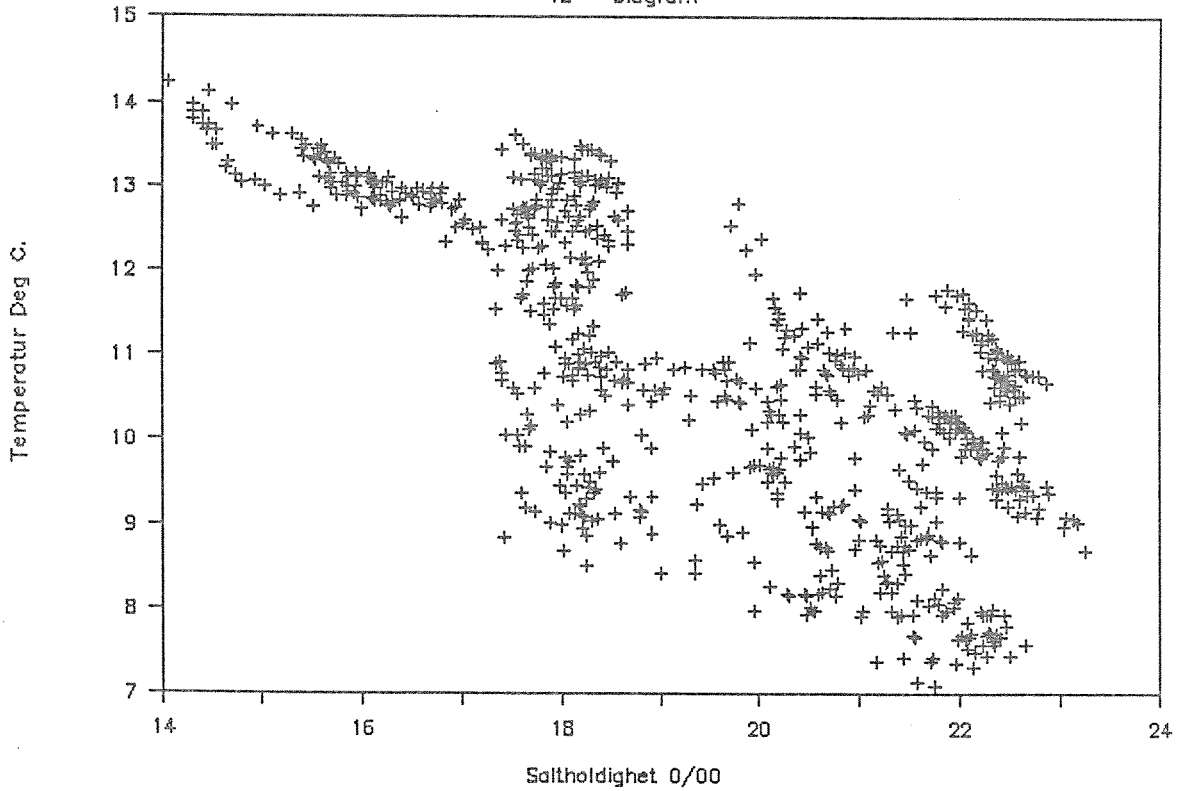
Grisebådarna 10 m.

Tetthet



Grisebådarna 10 m. Mai 1988

TS - Diagram

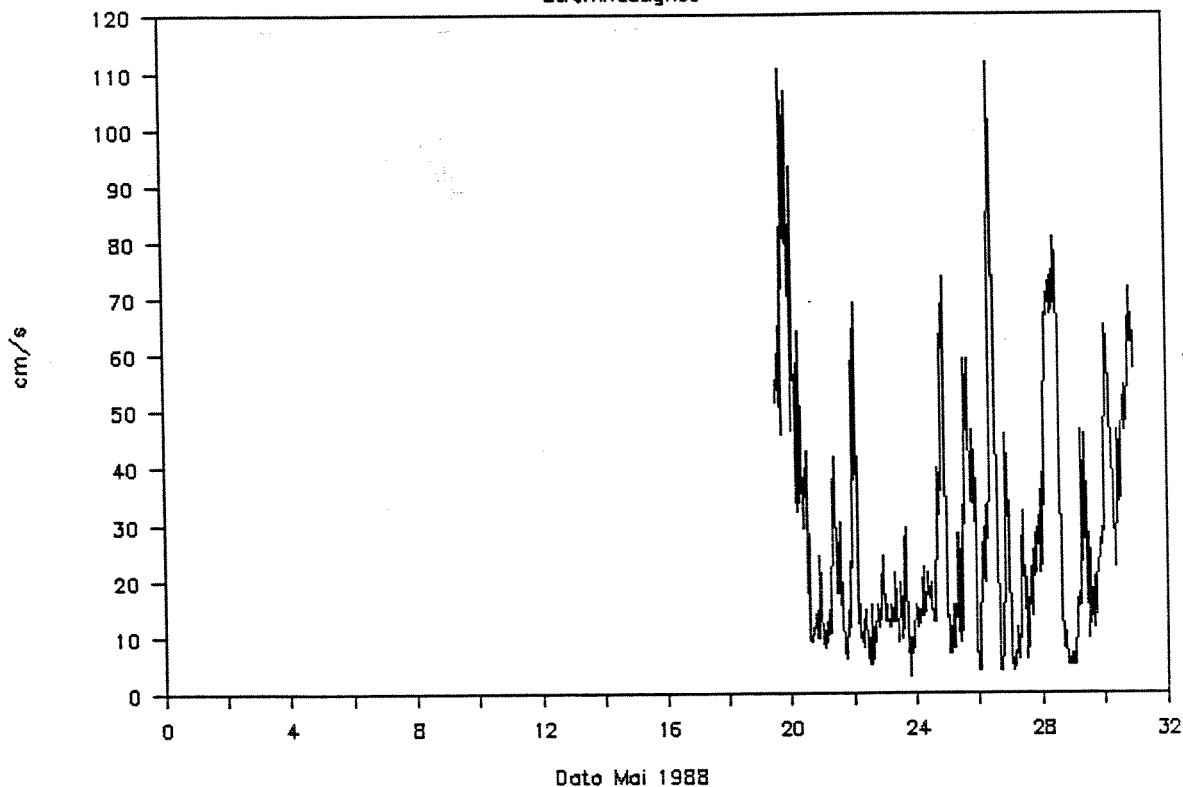


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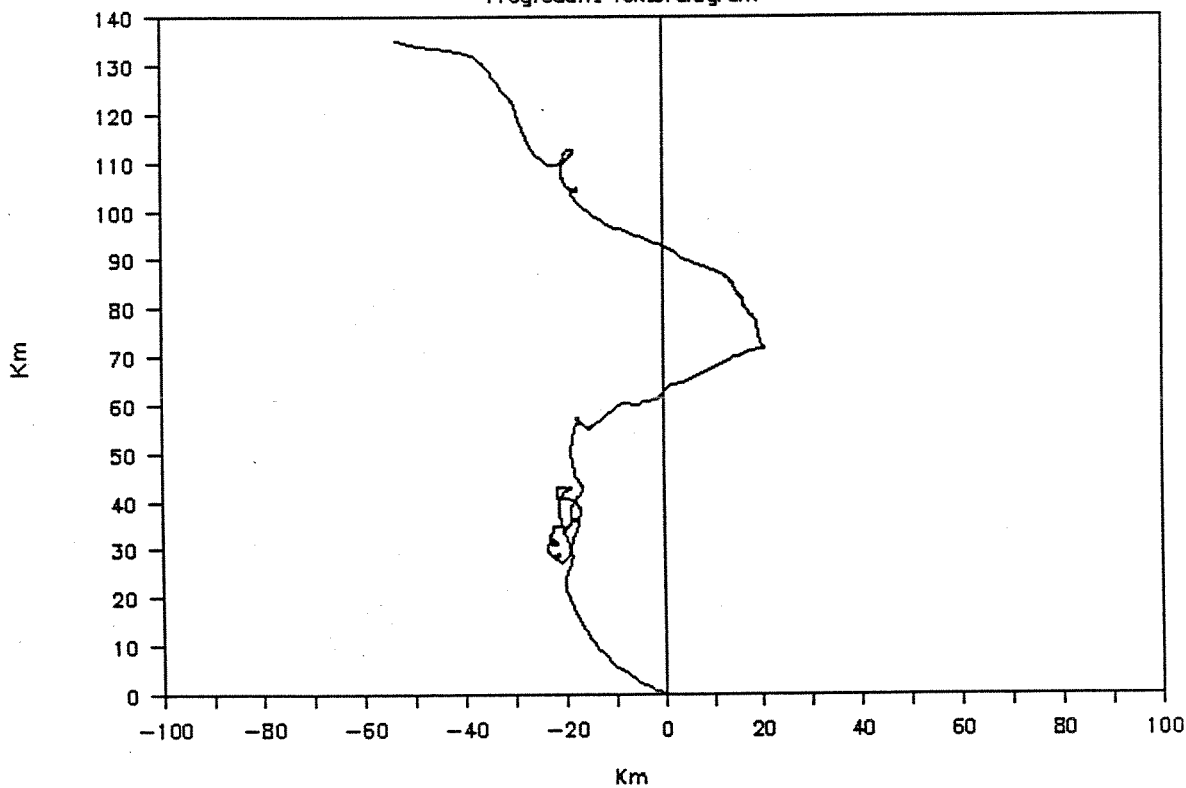
Grisebådarna 10 m.

Strømhastighet



Grisebådarna 10 m.

Progressivt vektordiagram

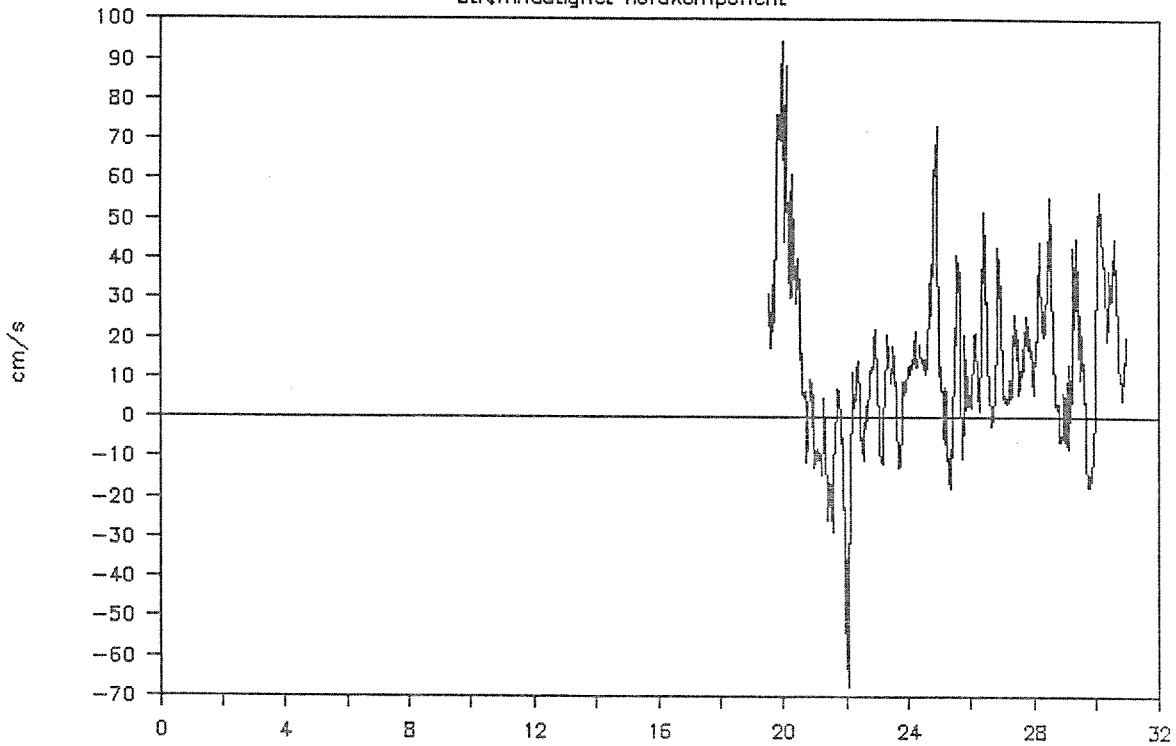


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Grisebådarna 10 m.

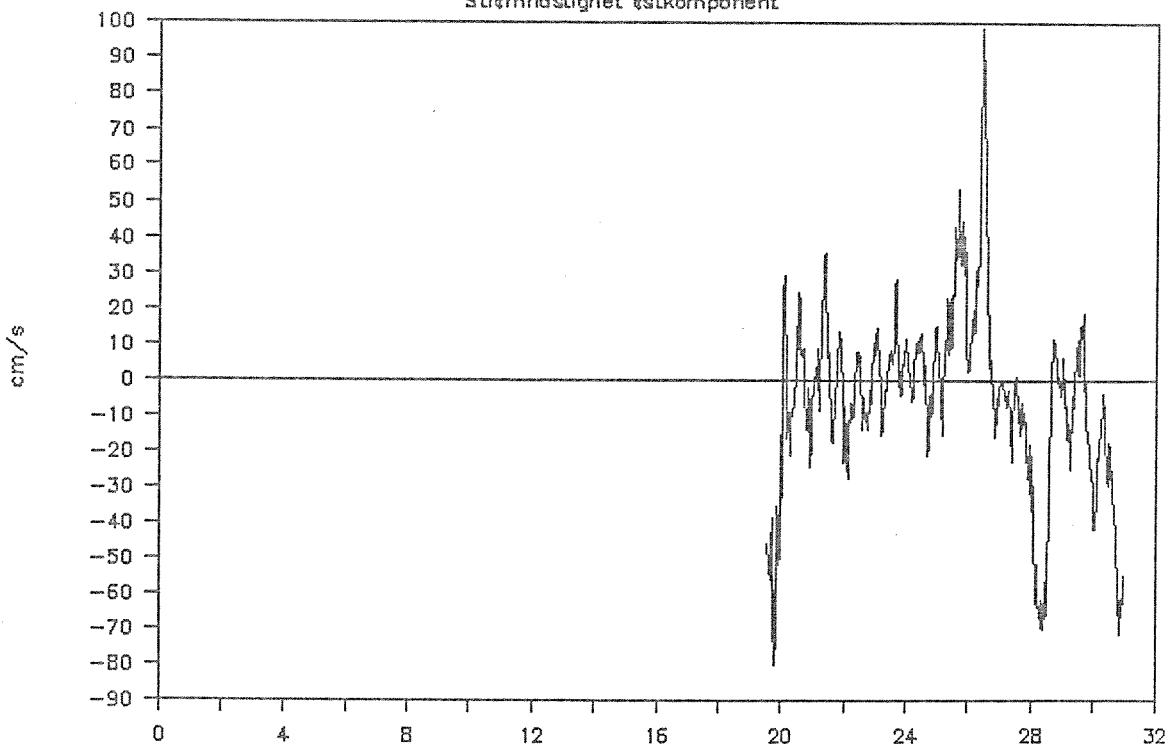
Strømhastighet nordkomponent



Date Mai 1988

Grisebådarna 10 m.

Strømhastighet østkomponent



Date Mai 1988

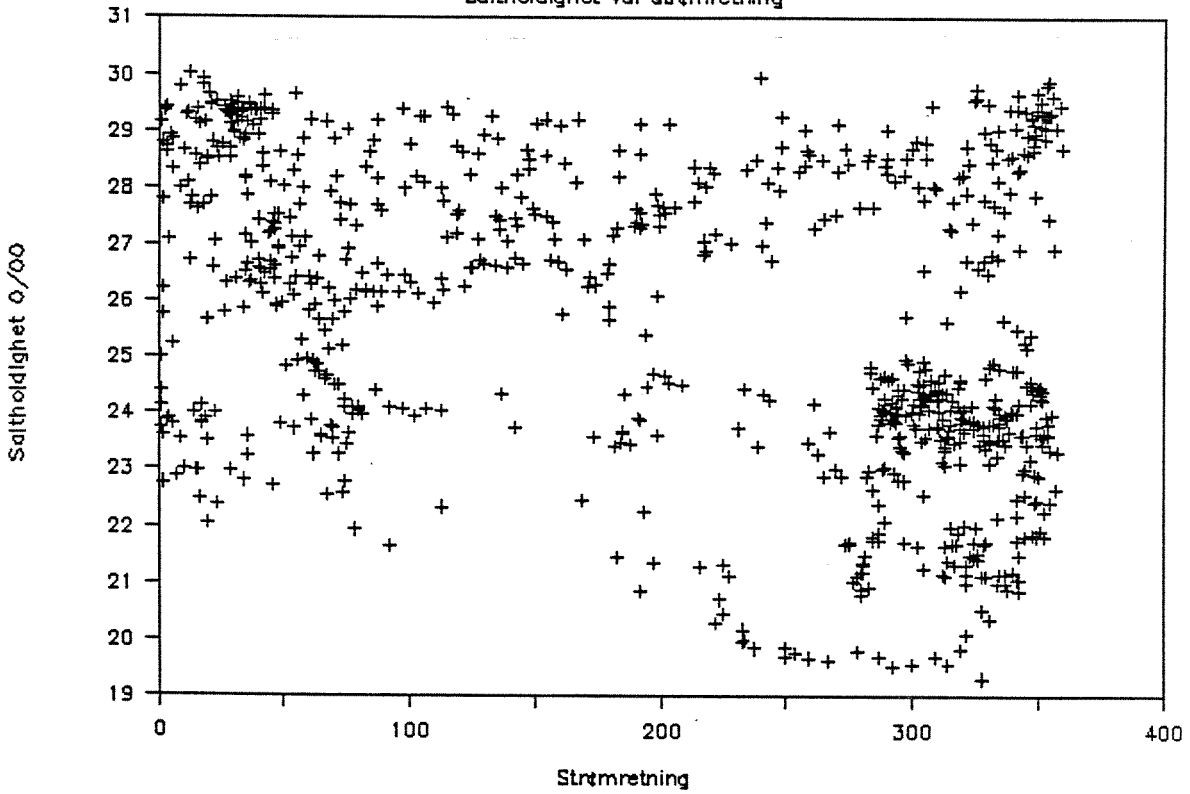


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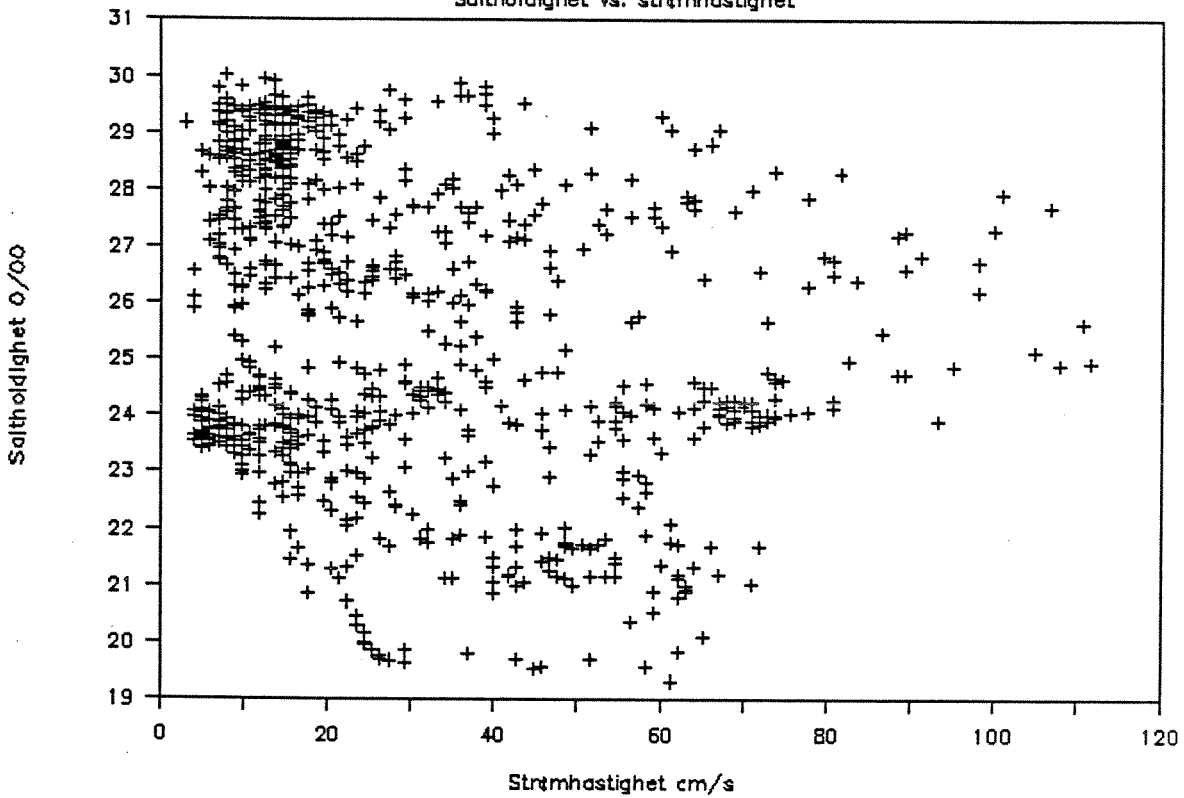
Grisebådarna 10 m Mai 1988

Saltholdighet vs. strømretning



Grisebådarna 10 m Mai 1988

Saltholdighet vs. strømhastighet

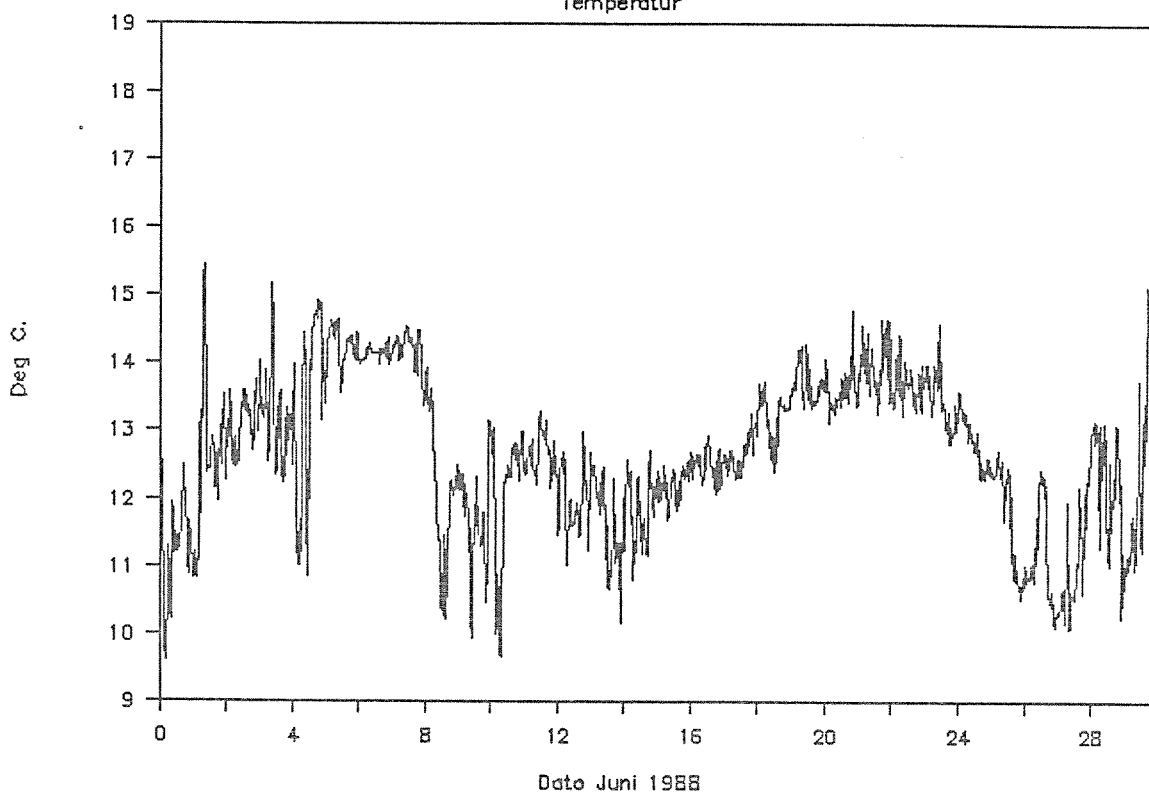


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and Services A/S

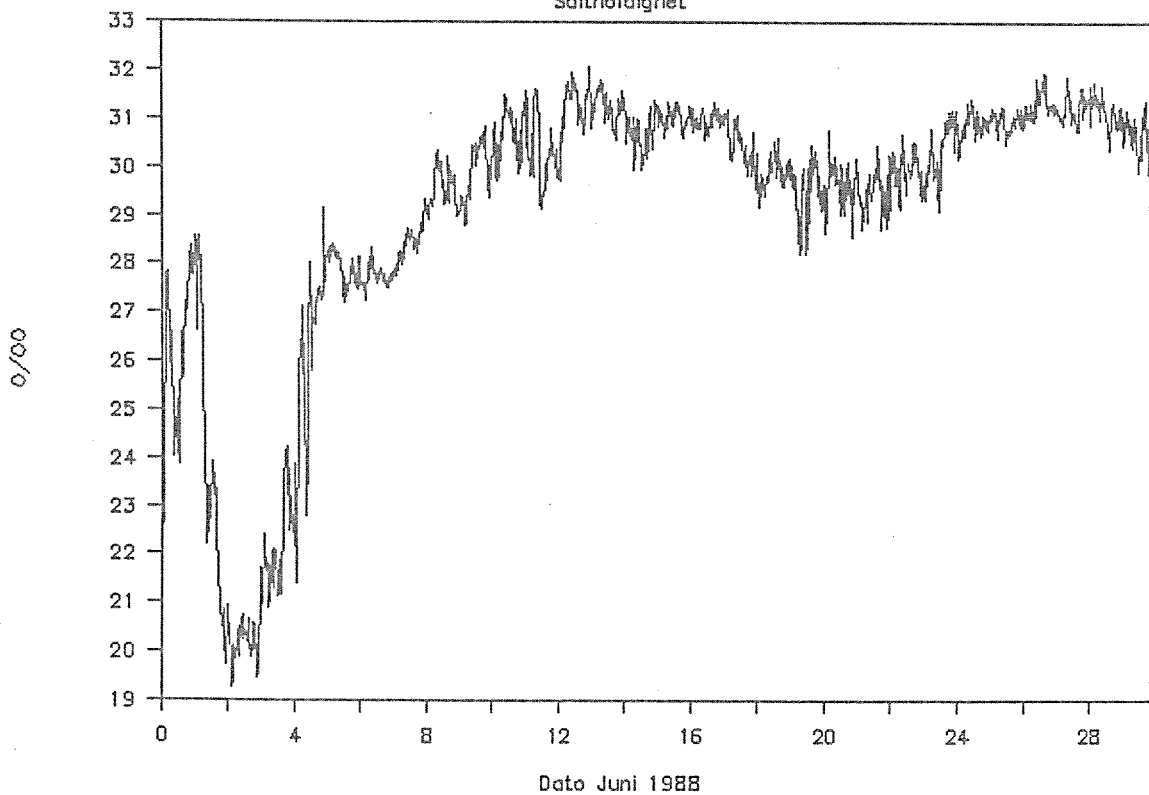
Grisebådarna 10m

Temperatur



Grisebådarna 10m

Saltholdighet

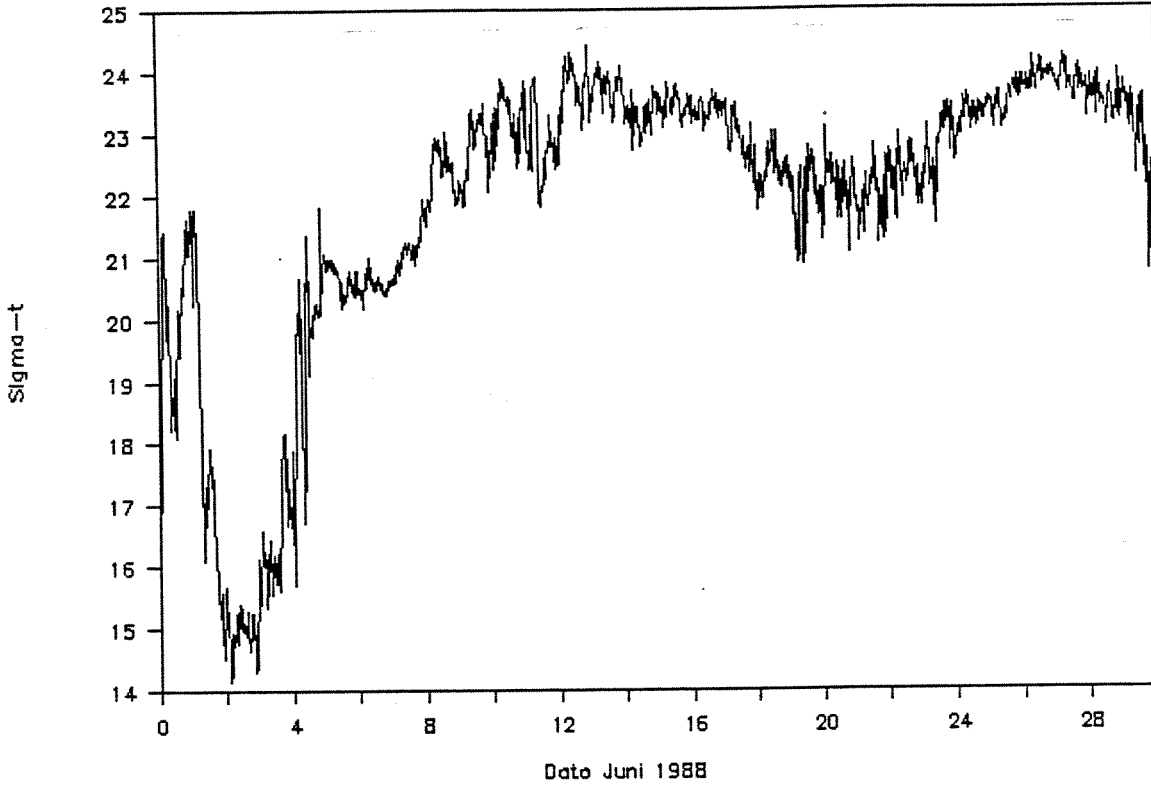


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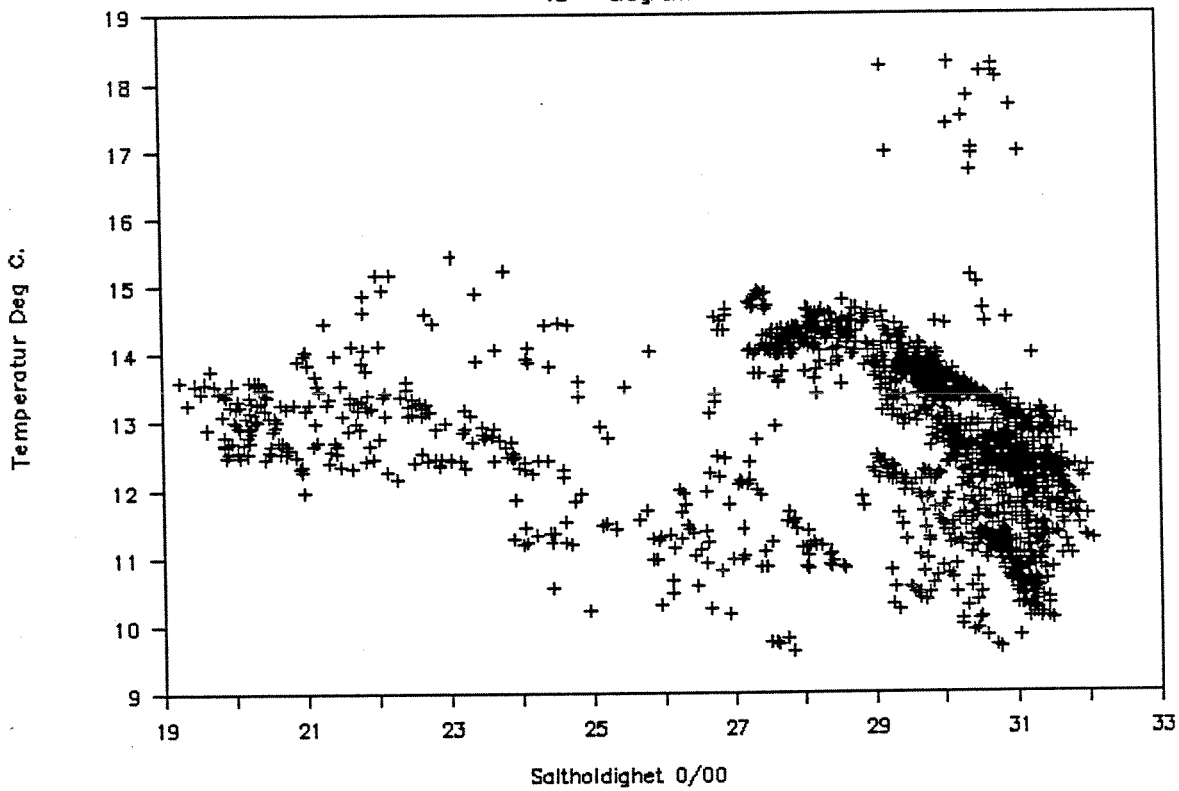
Grisebådarna 10m

Tetthet



Grisebådarna 10m Juni 1988

TS - diagram

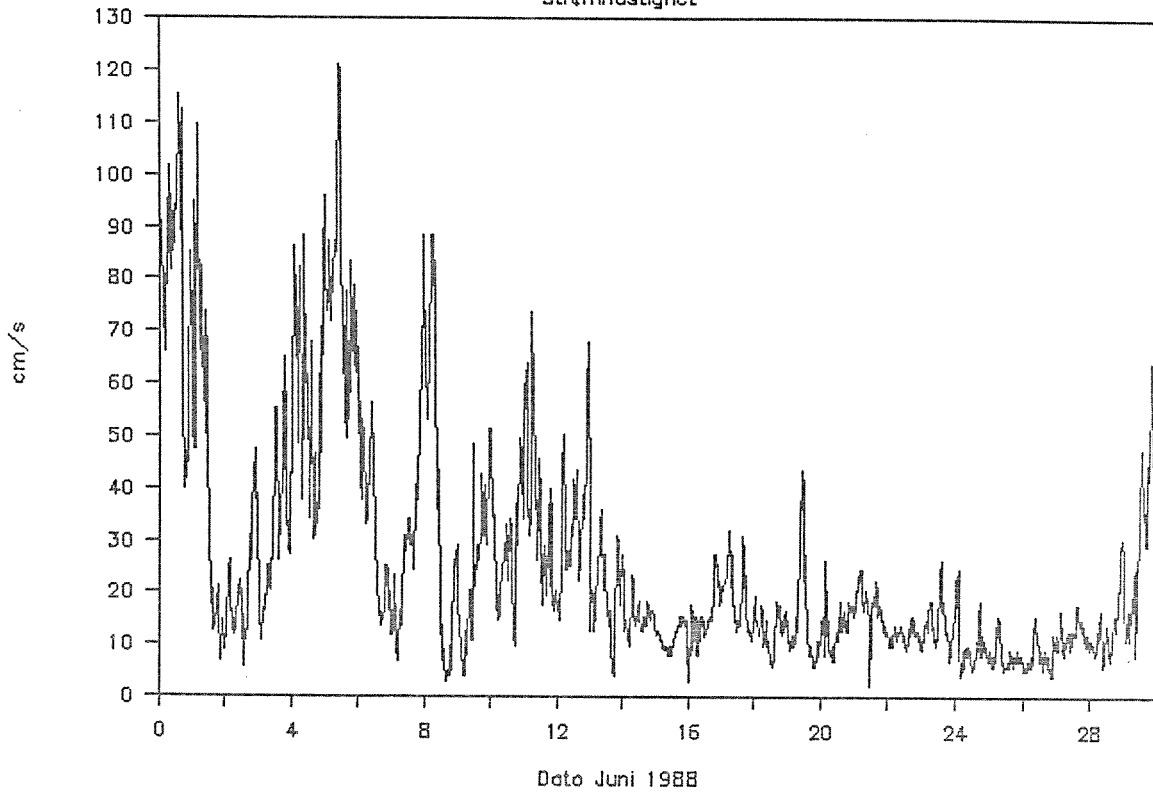


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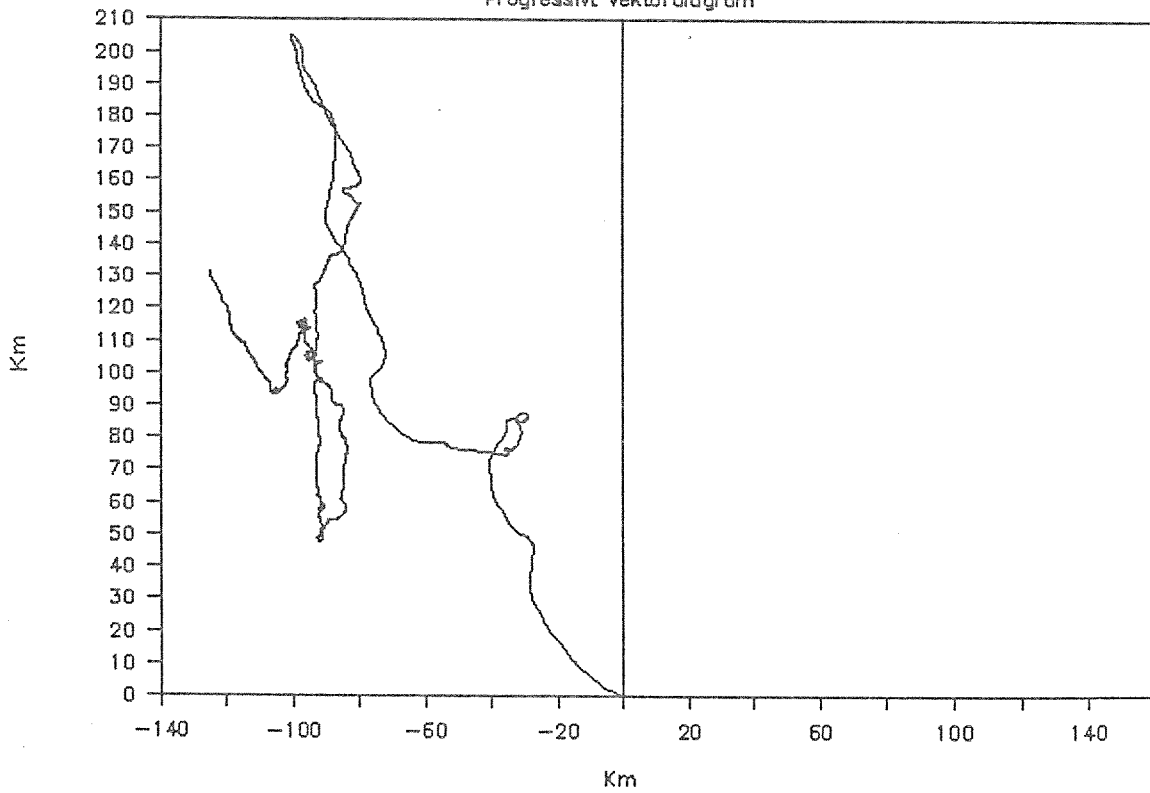
Grisebådarna 10m

Strømhastighet



Grisebådarna 10m Juni 1988

Progressivt vektordiagram

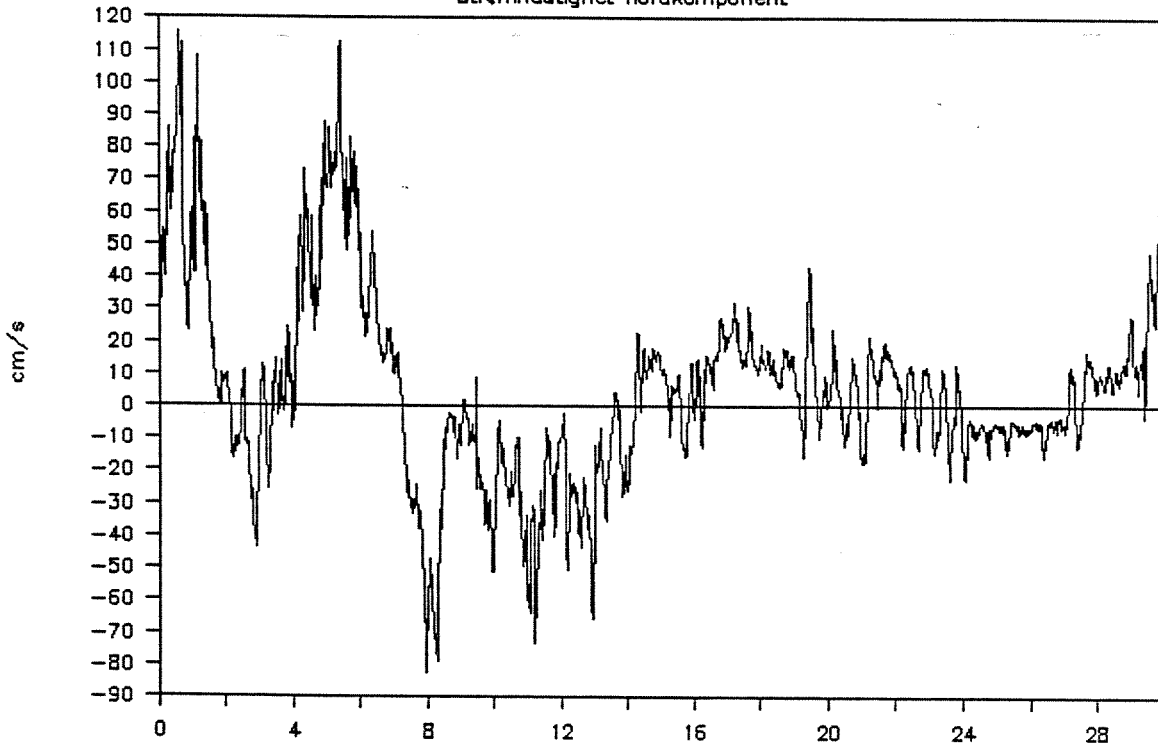


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Grisebådarna 10m

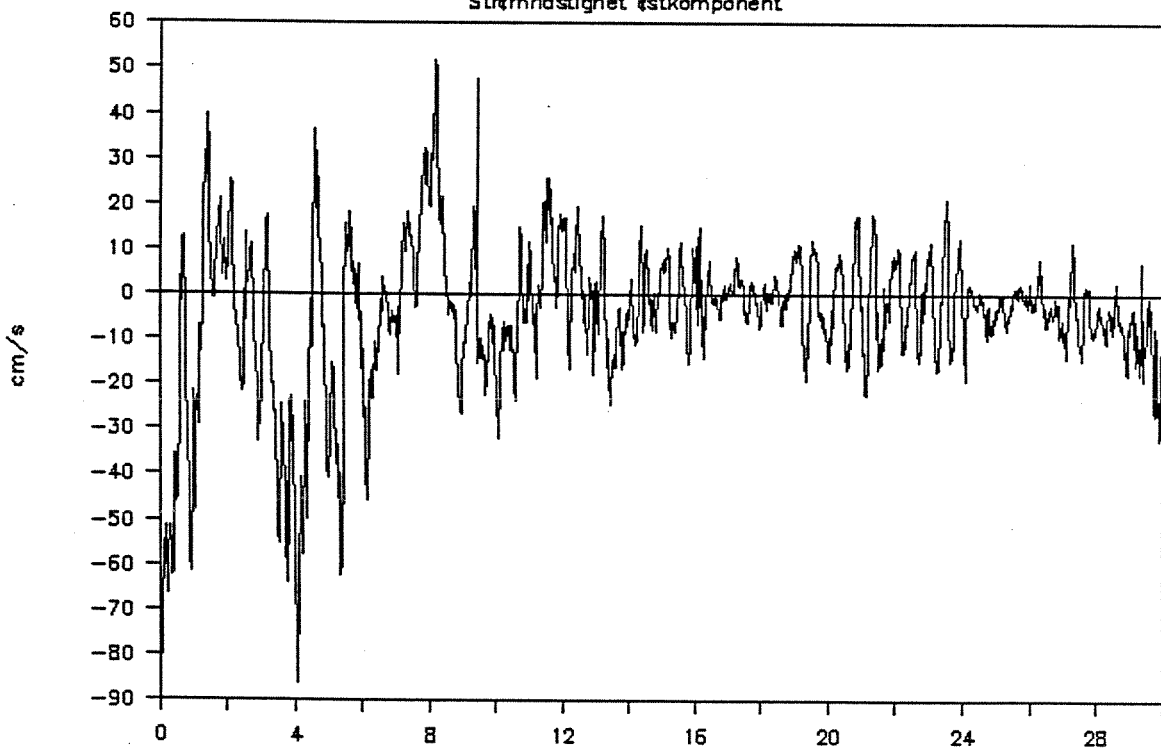
Strømhastighet nordkomponent



Dato Juni 1988

Grisebådarna 10m

Strømhastighet østkomponent



Dato Juni 1988

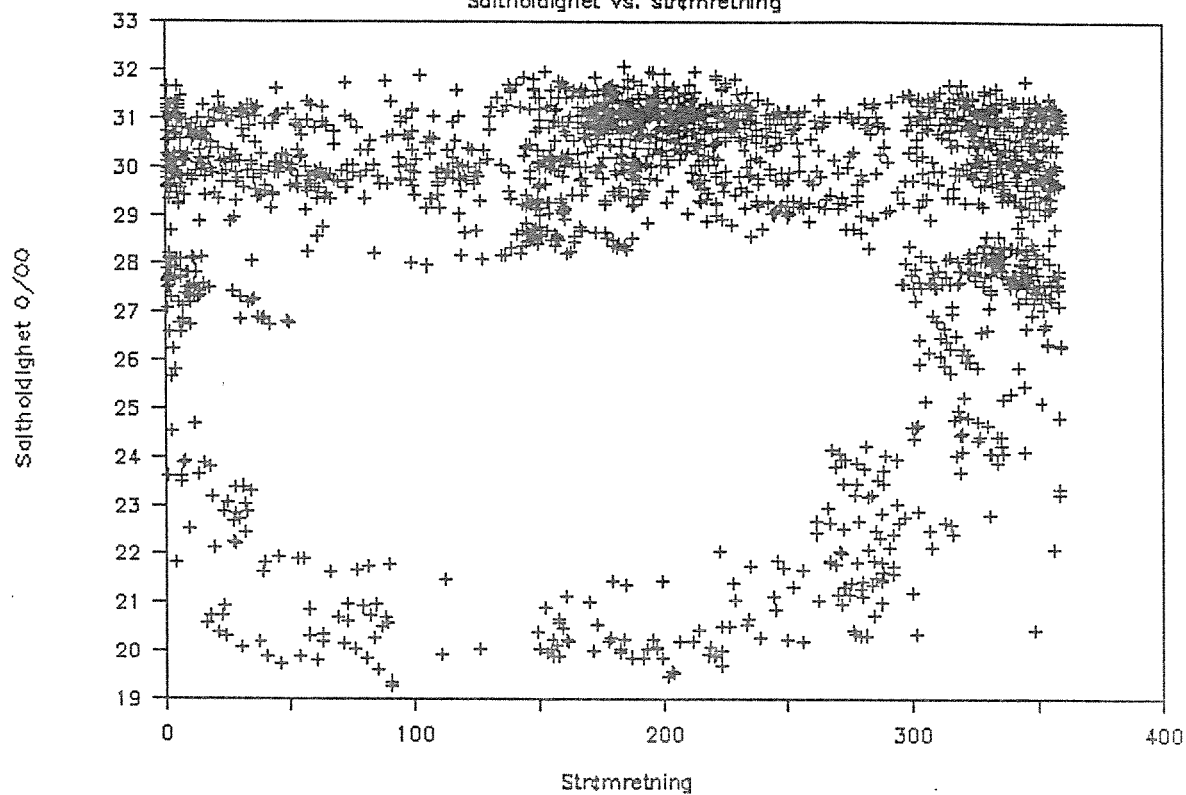


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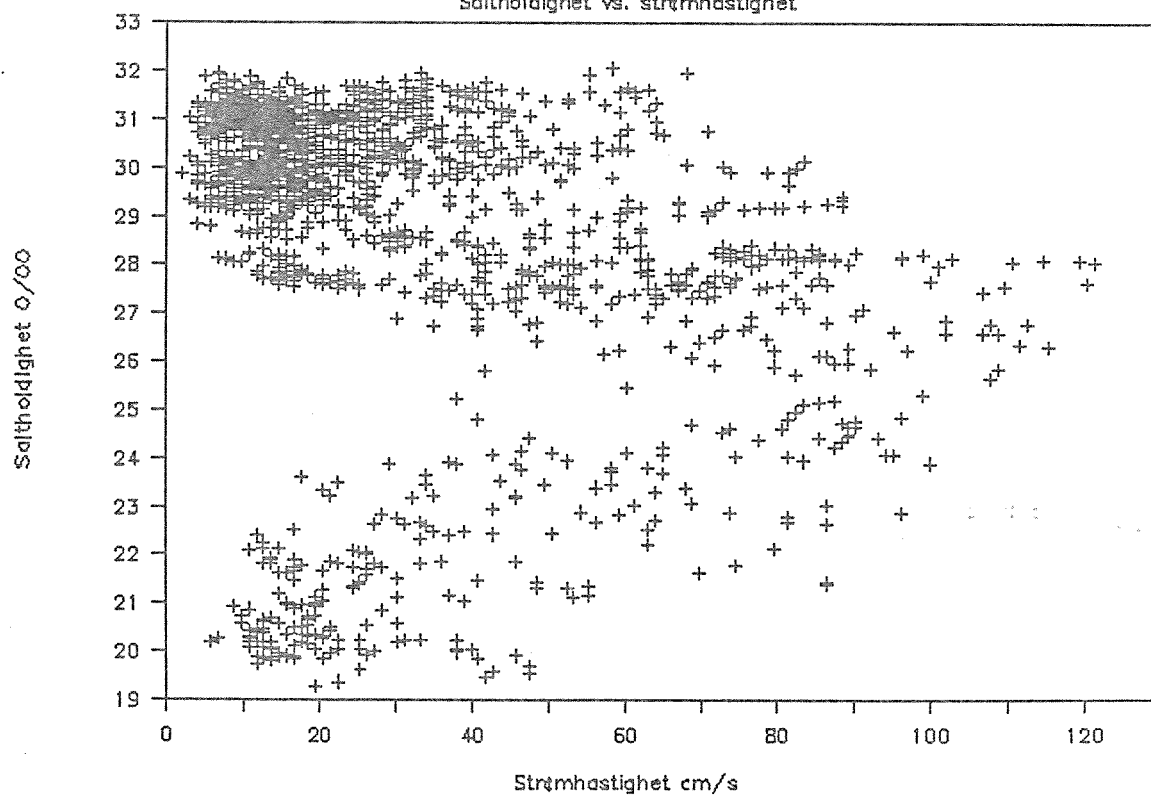
Grisebådarna 10m Juni 1988

Saltholdighet vs. strømretning



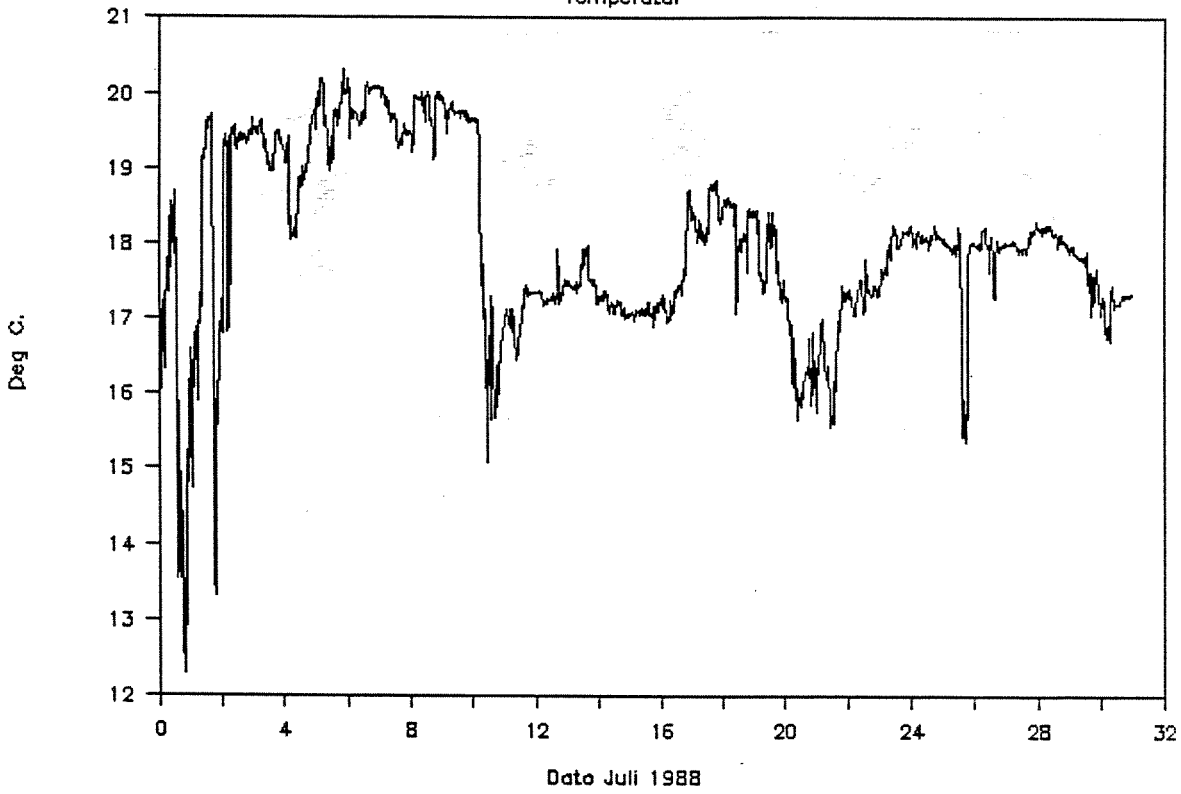
Grisebådarna 10m Juni 1988

Saltholdighet vs. strømhastighet

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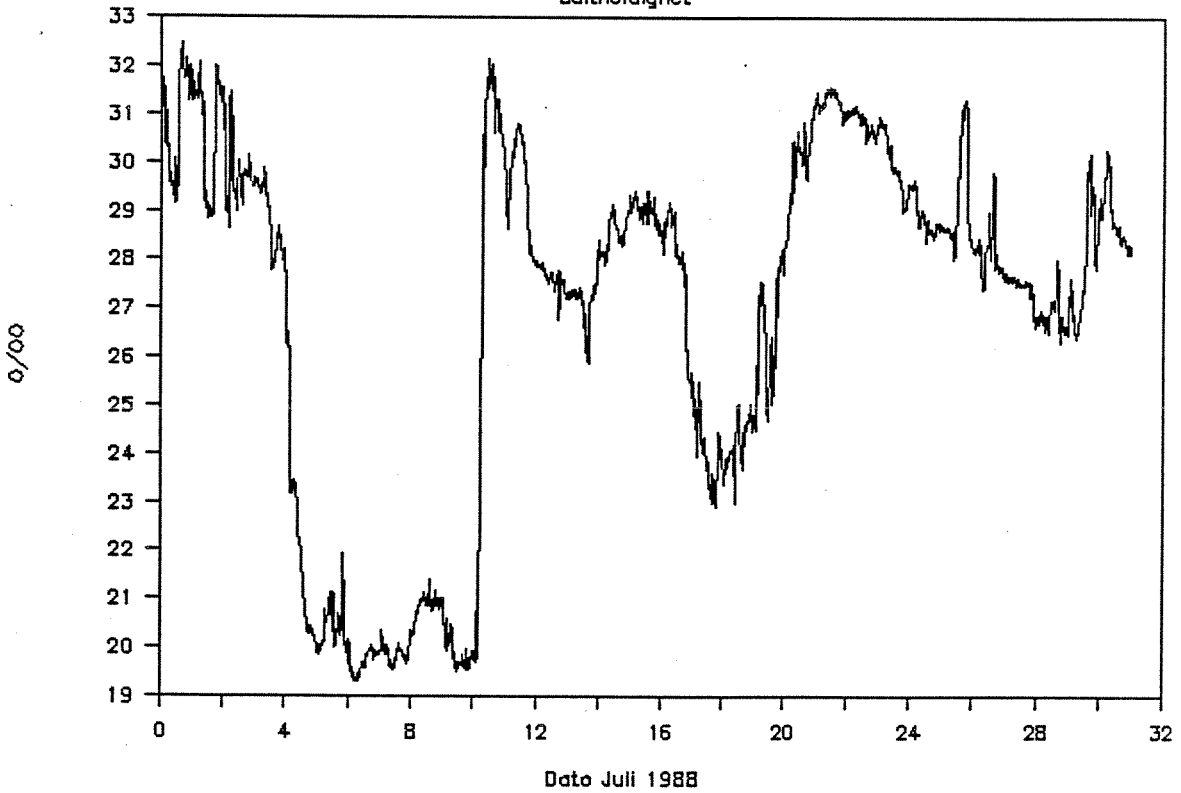
Grisebådarna 10 m.

Temperatur



Grisebådarna 10 m.

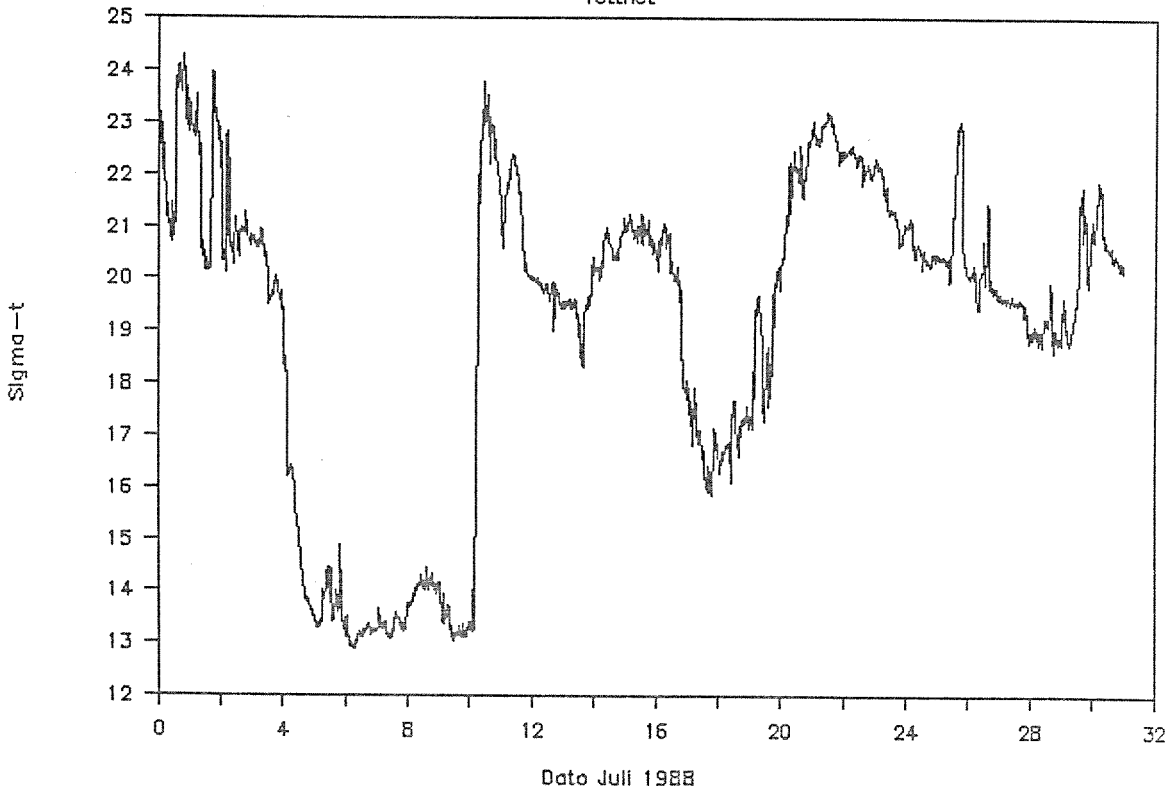
Saltholdighet



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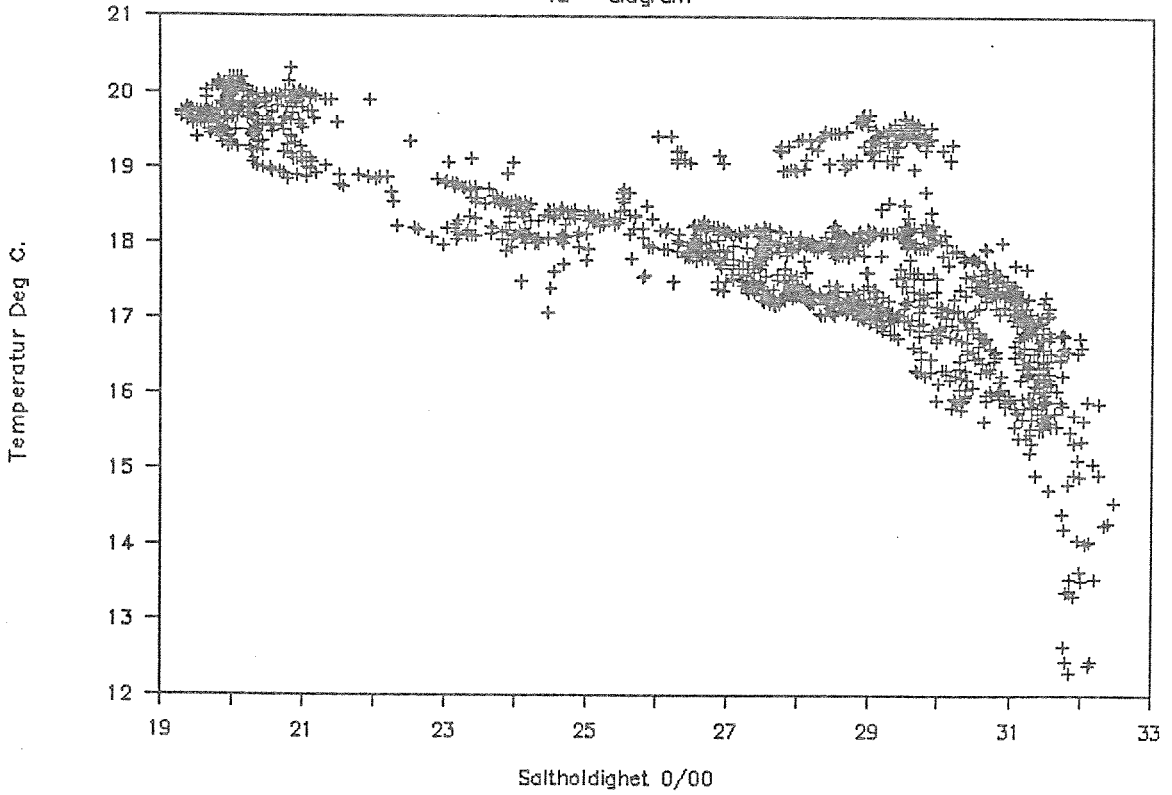
Grisebådarna 10 m.

Tetthet



Grisebådarna 10 m. Juli 1988

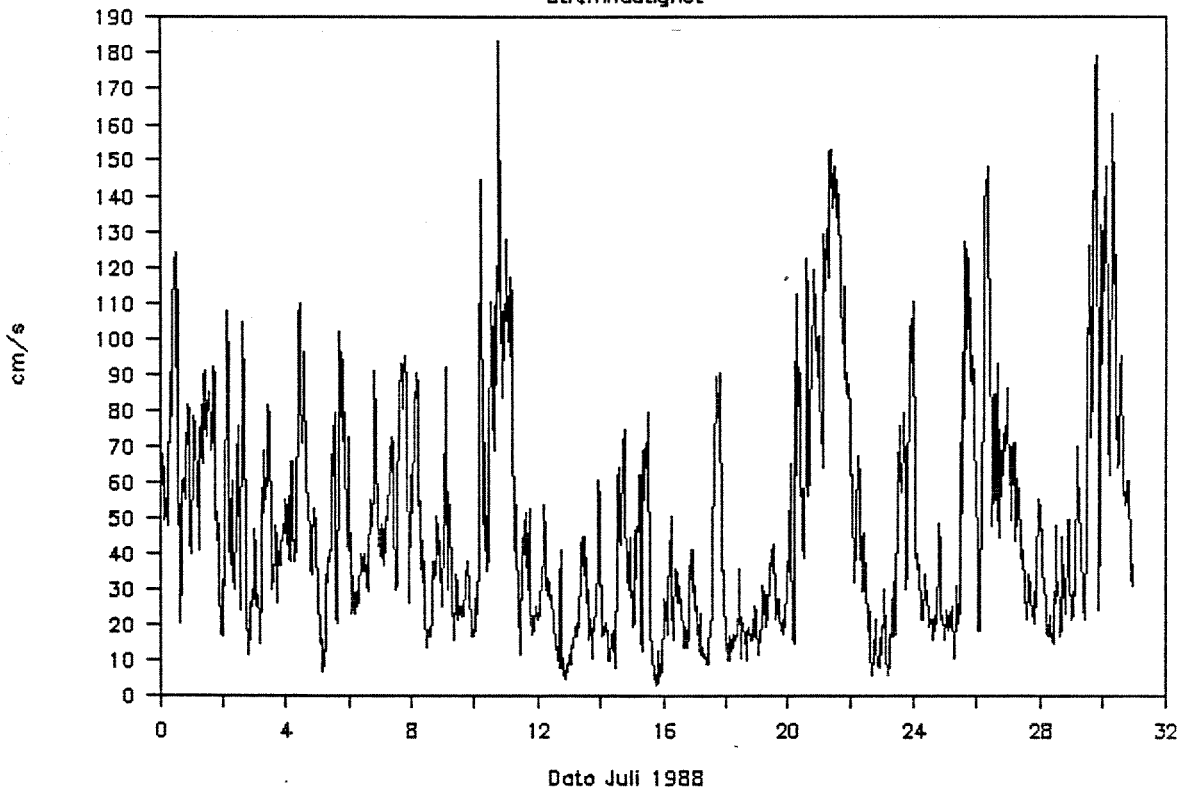
TS - diagram



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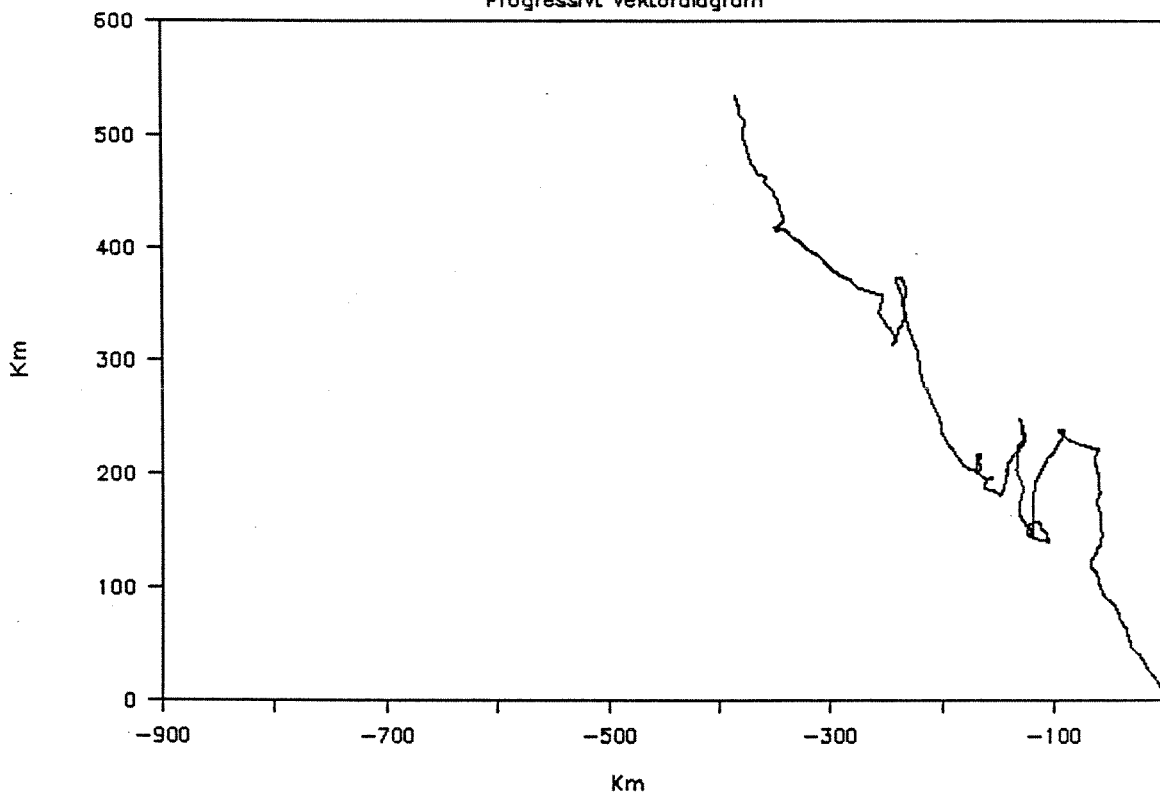
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Strømhastighet



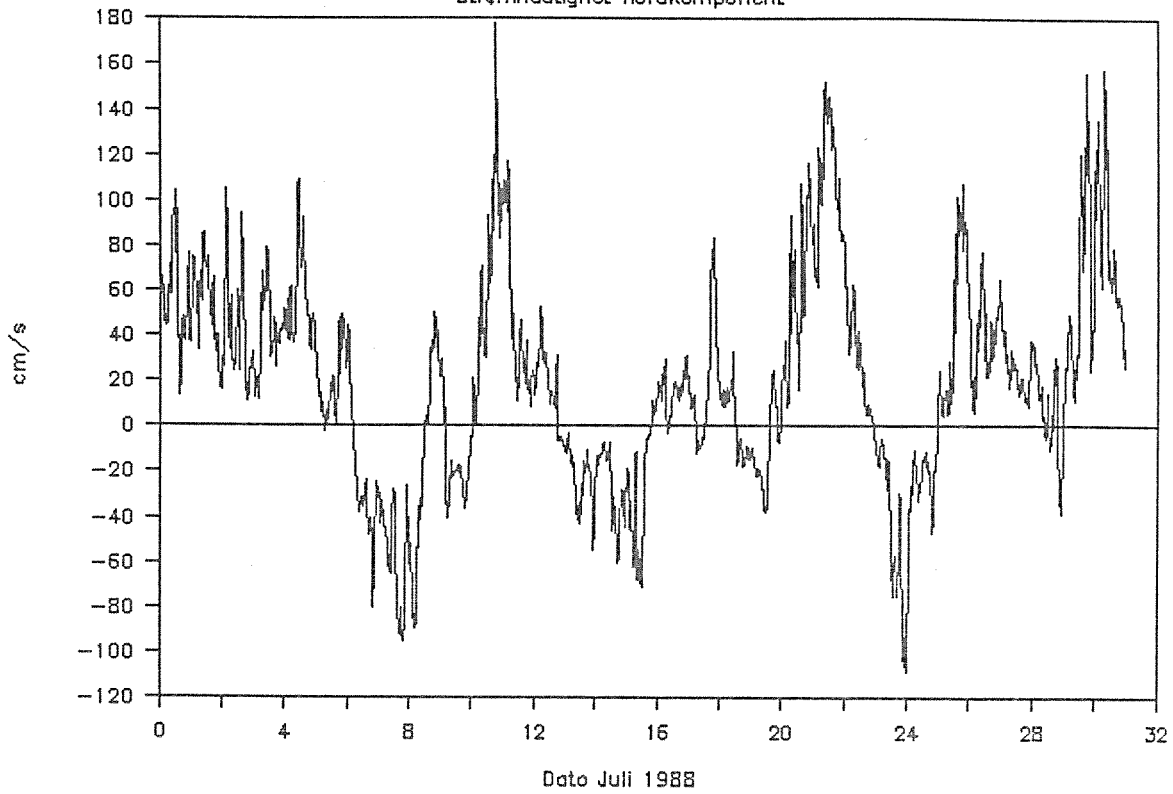
Grisebådarna 10 m Juli 1988

Progressivt Vektordiagram



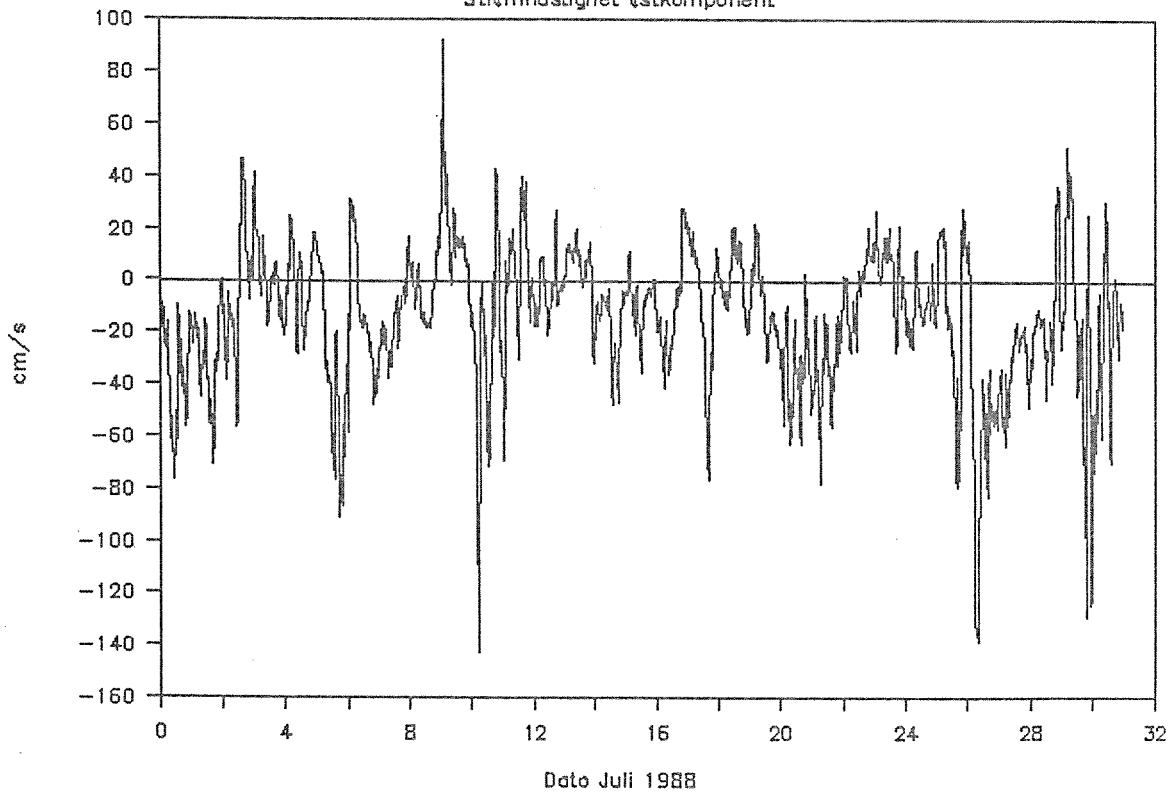
Grisebådarna 10 m.

Strømhastighet nordkomponent



Grisebådarna 10 m.

Strømhastighet østkomponent

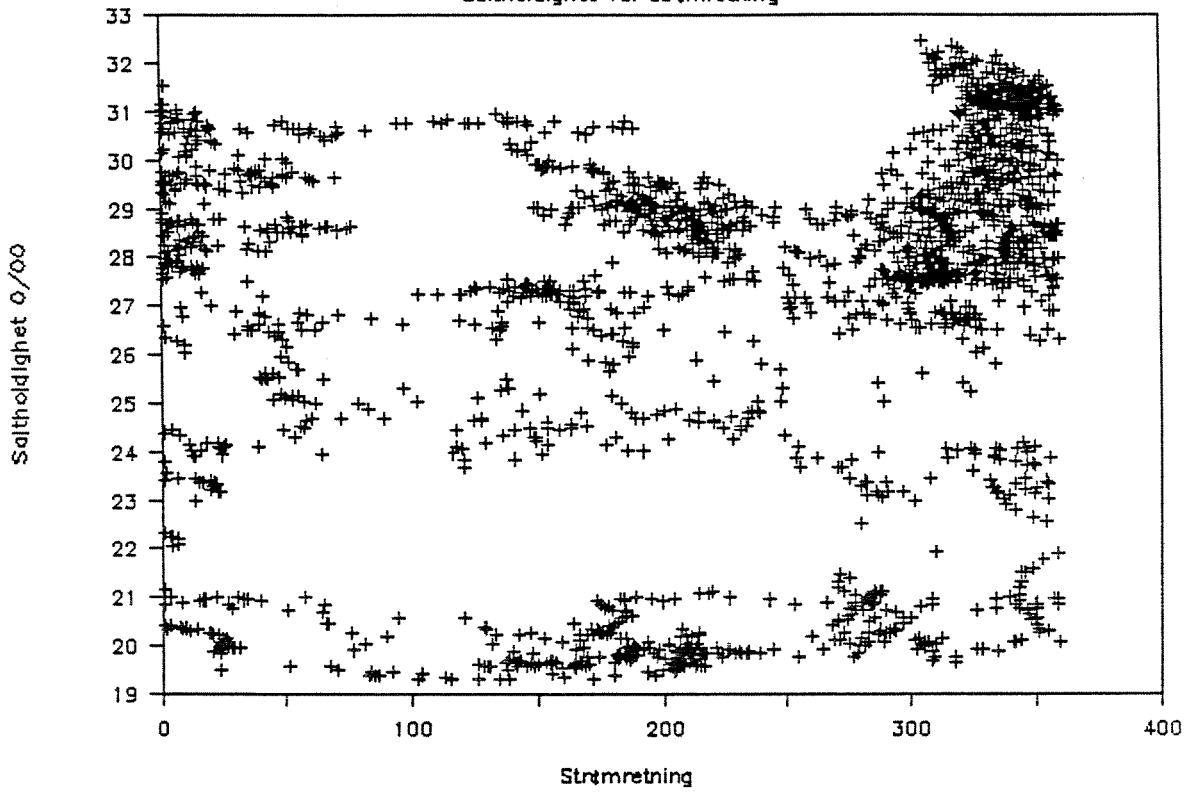


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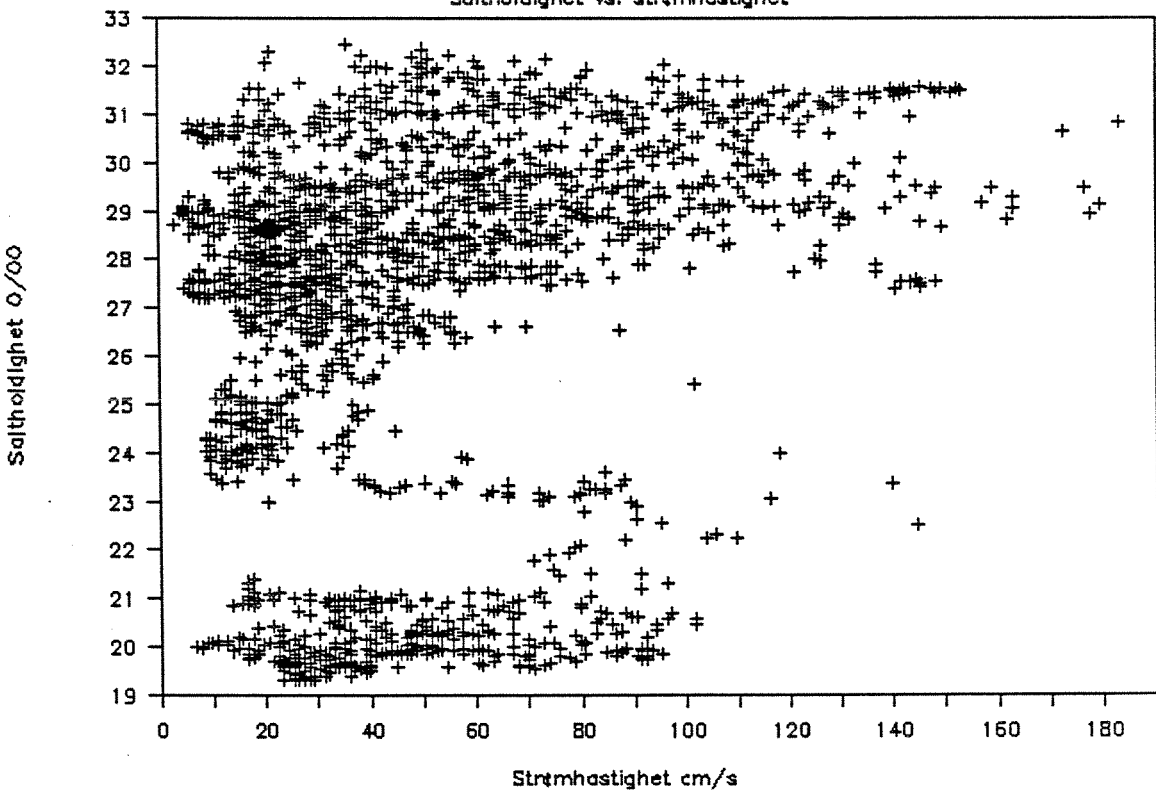
Grisebådarna 10 m. Juli 1988

Saltholdighet vs. strømretning



Grisebådarna 10 m. Juli 1988

Saltholdighet vs. strømhastighet

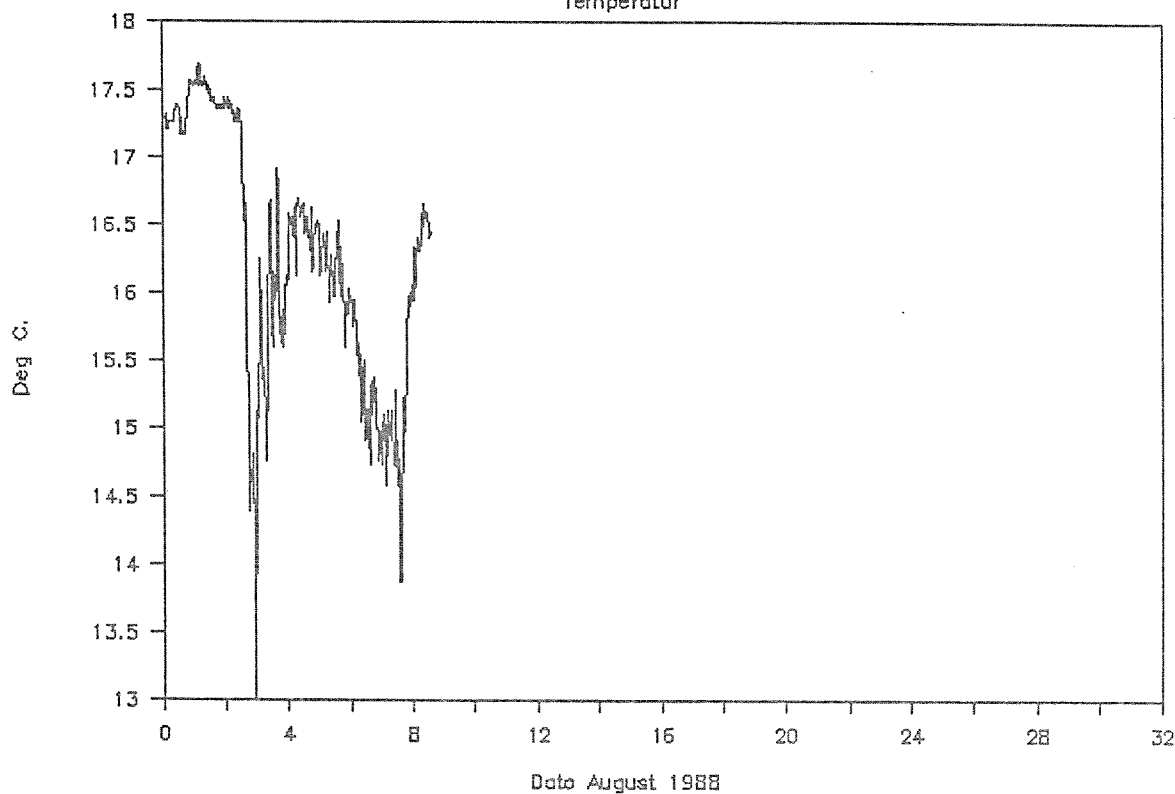


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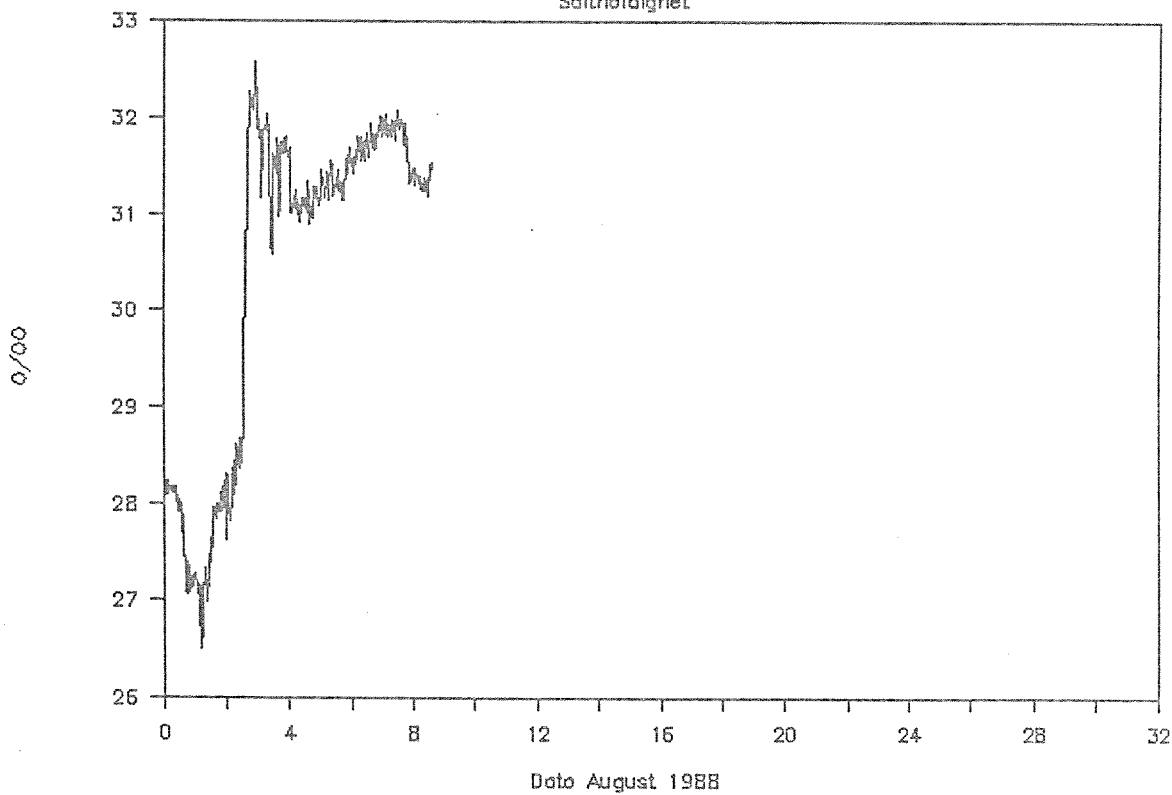
Grisebådarna 10 m.

Temperatur



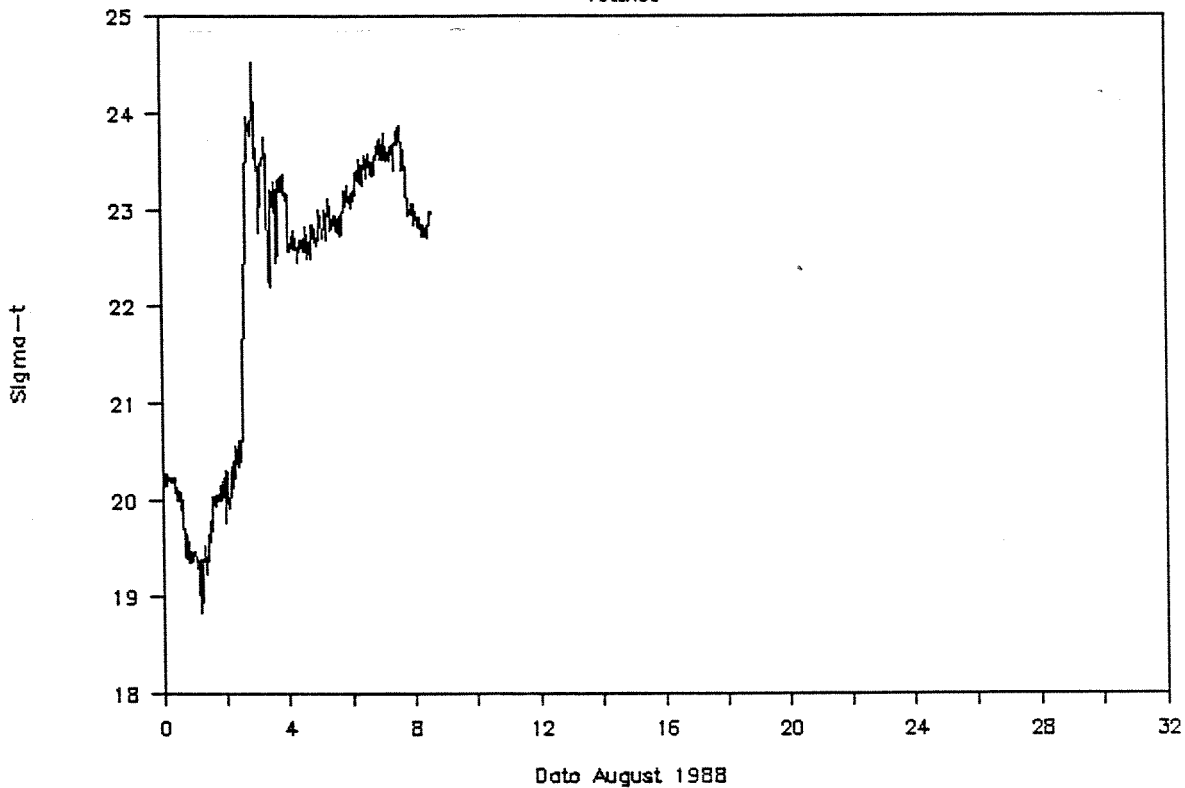
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Saltholdighet



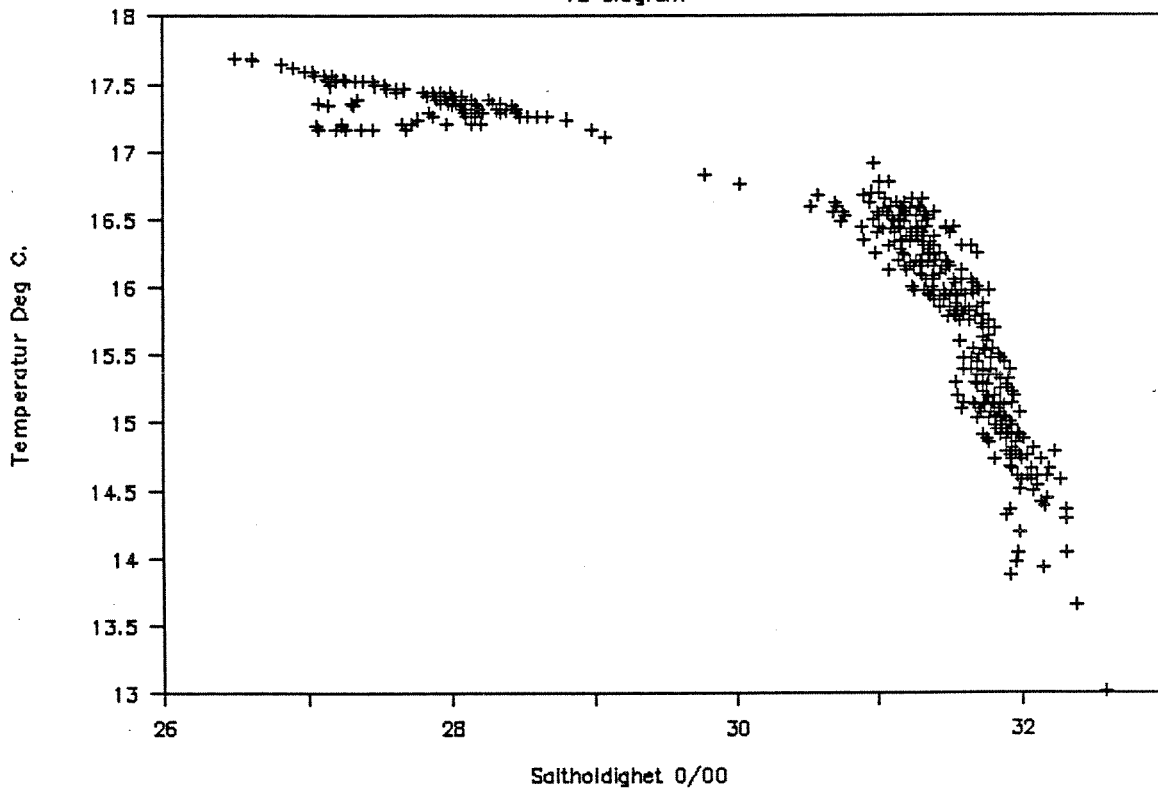
Grisebådarna 10 m.

Tetthet



Grisebådarna 10 m August 1988

TS Diagram

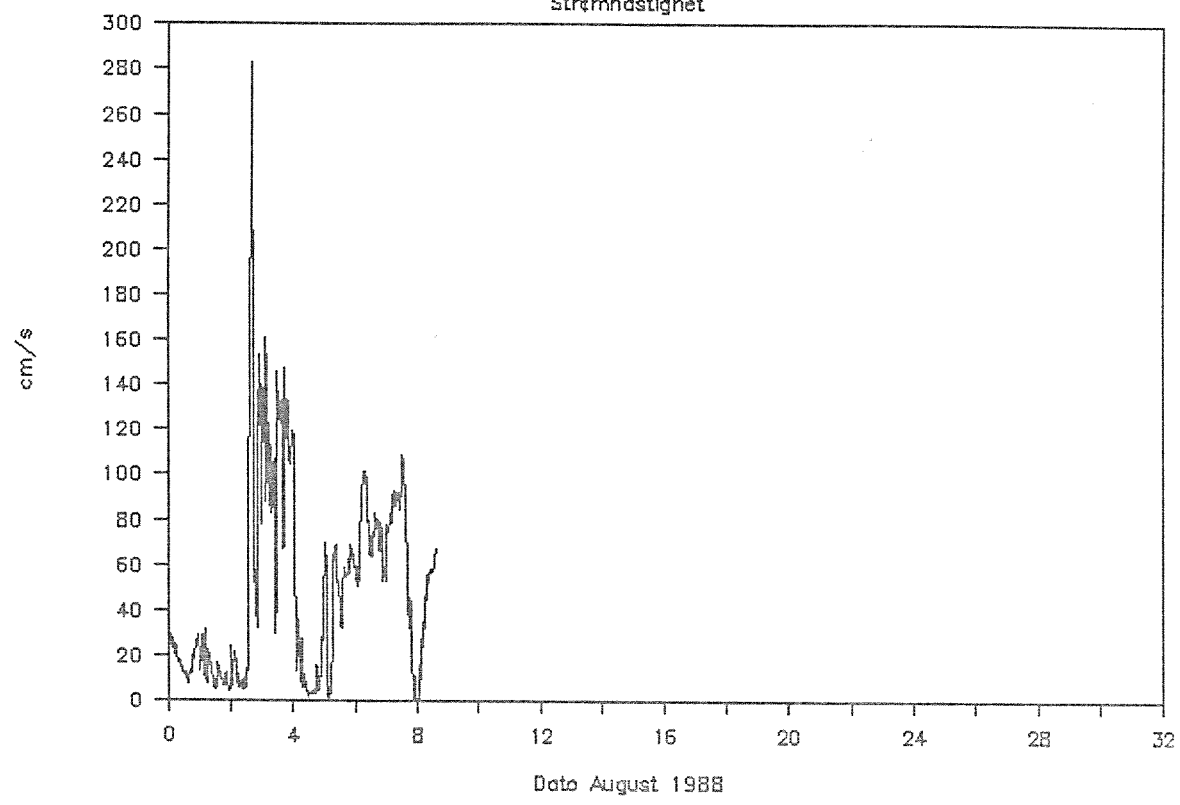


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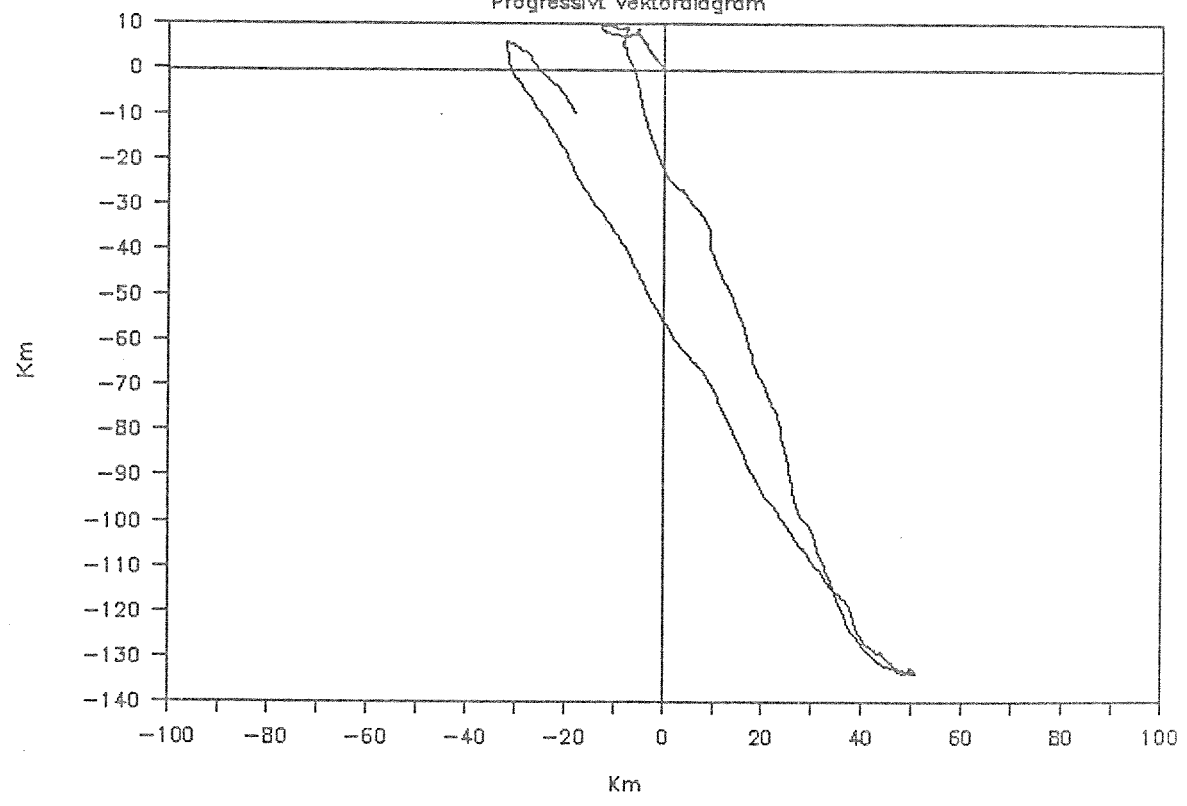
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Strømhastighet



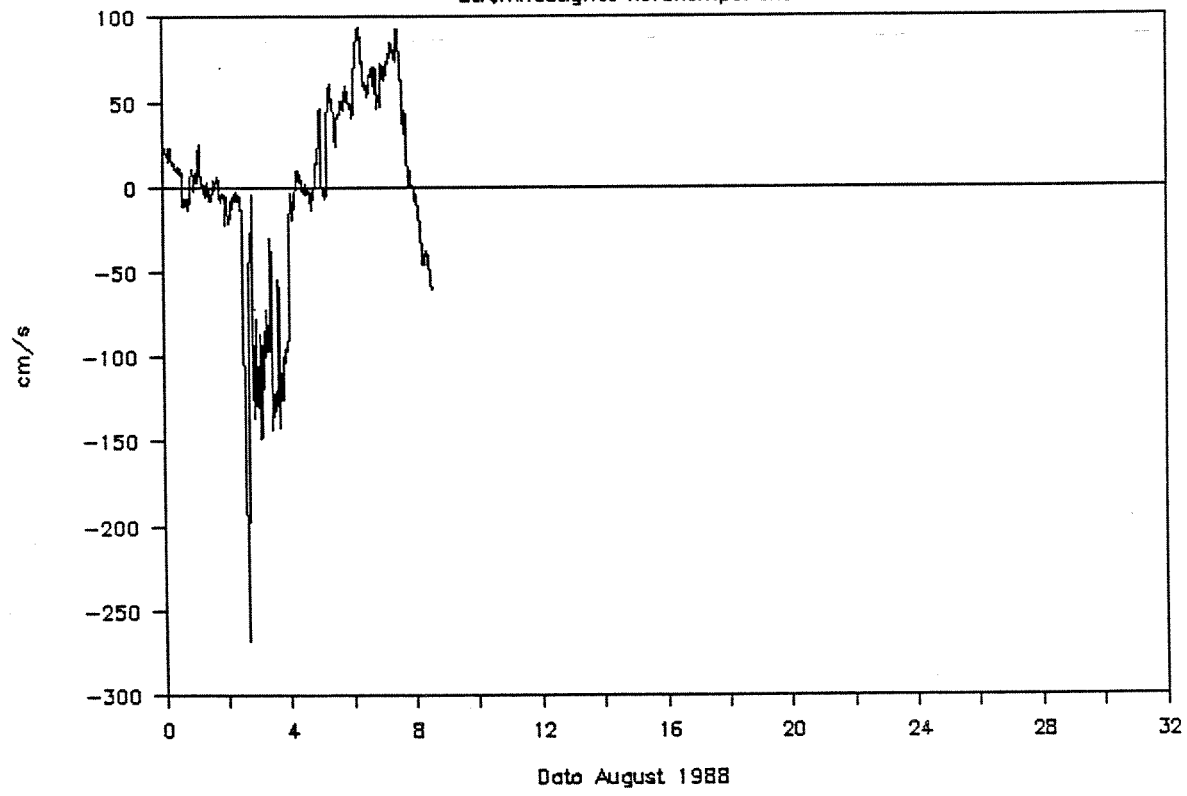
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Progressivt Vektordiagram



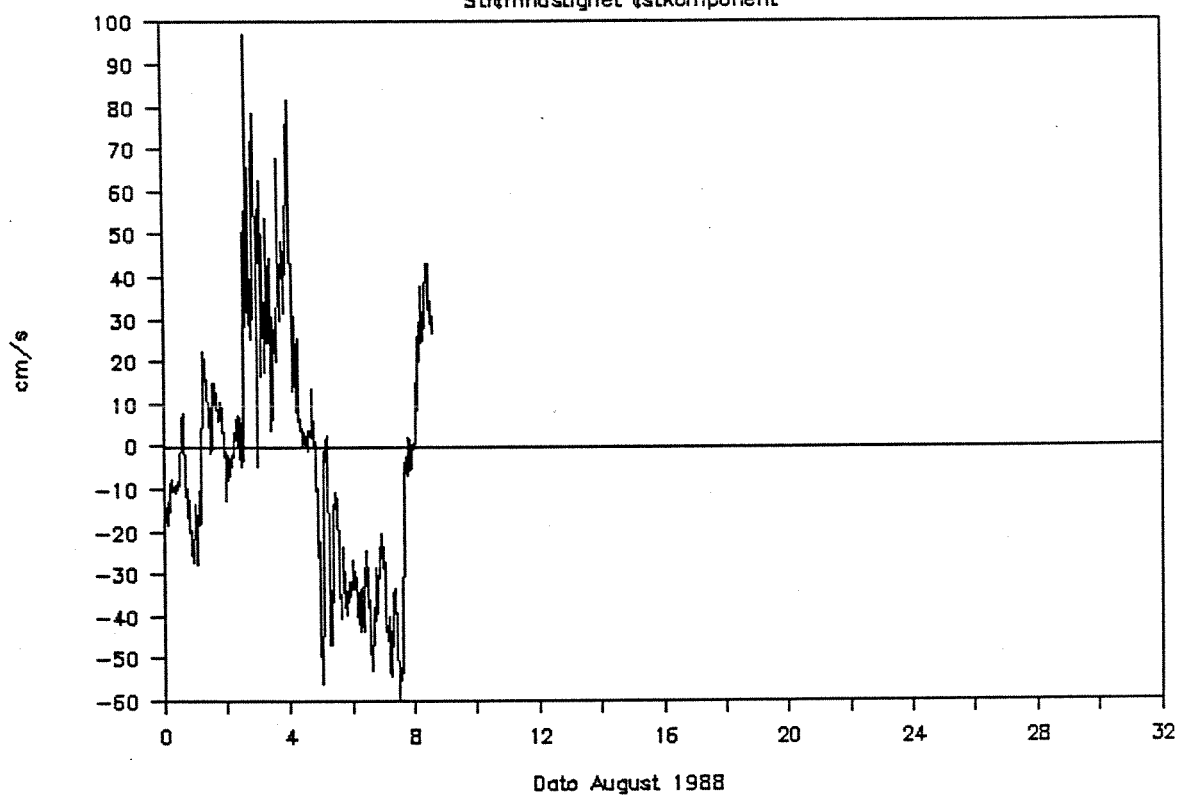
Grisebådarna 10 m.

Strømhastighet nordkomponent



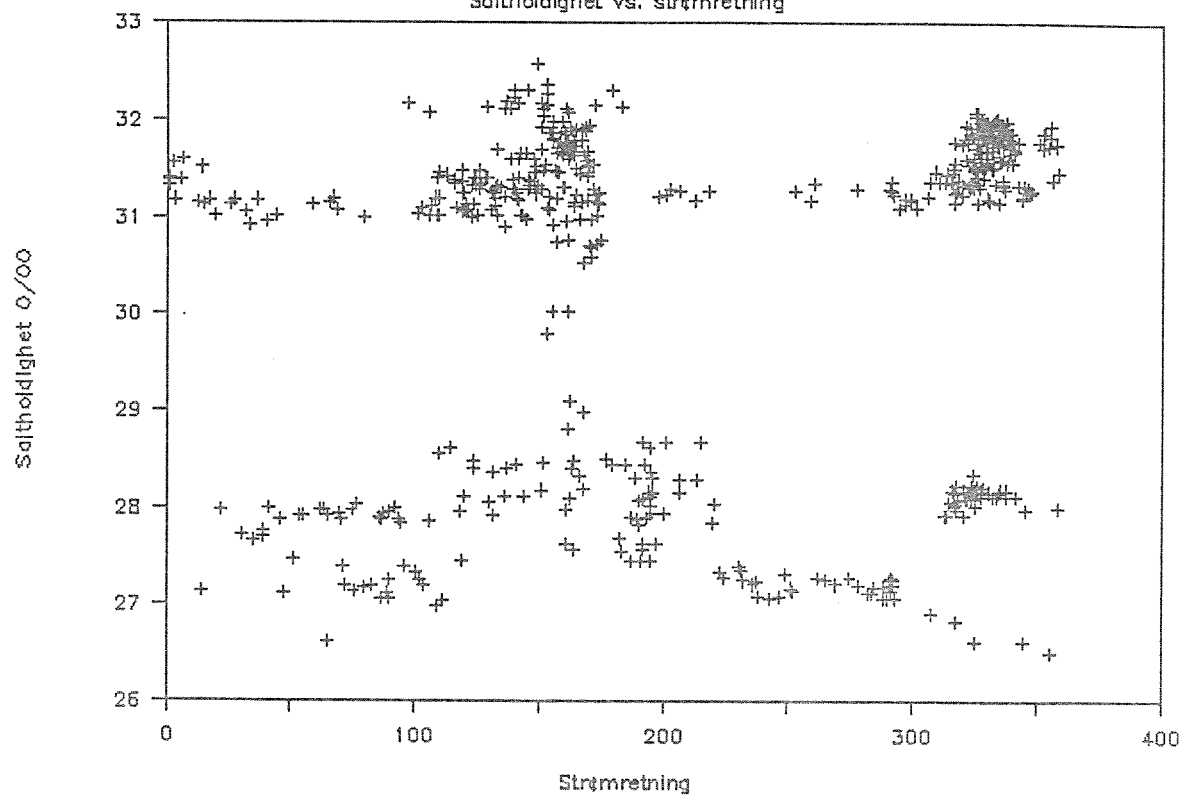
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Strømhastighet østkomponent



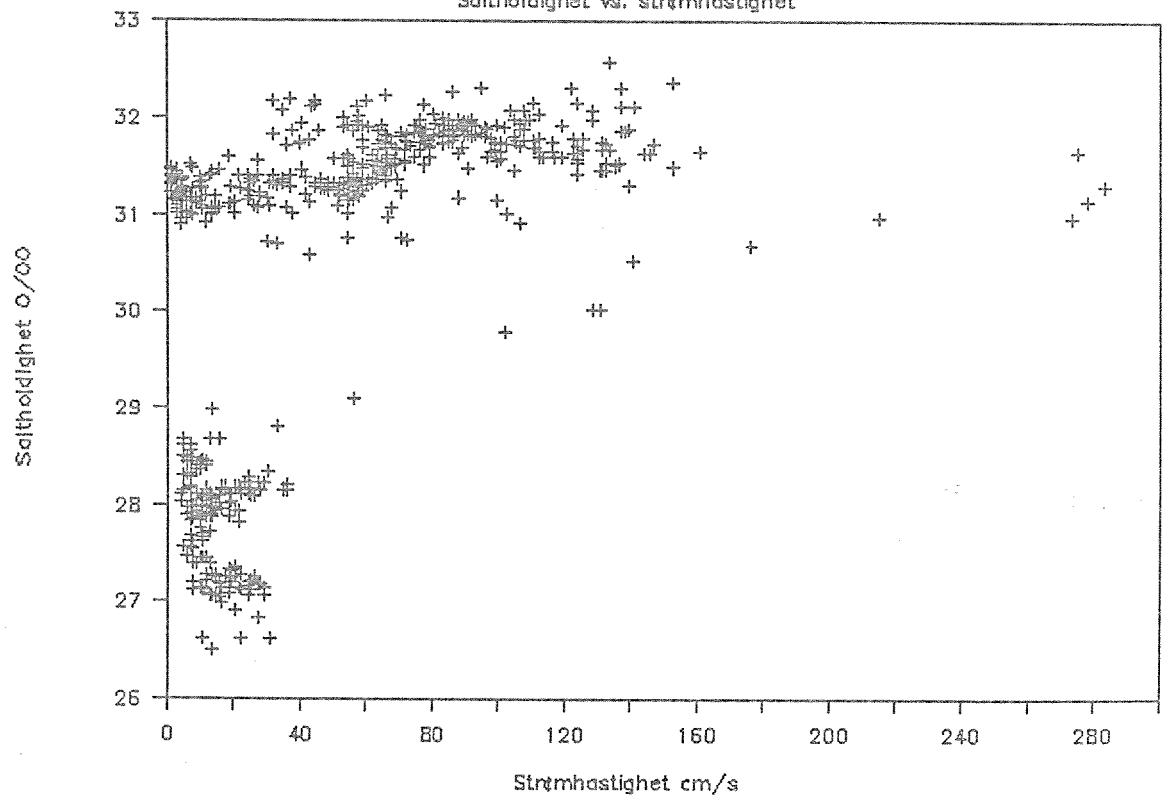
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Saltholdighet vs. strømretning



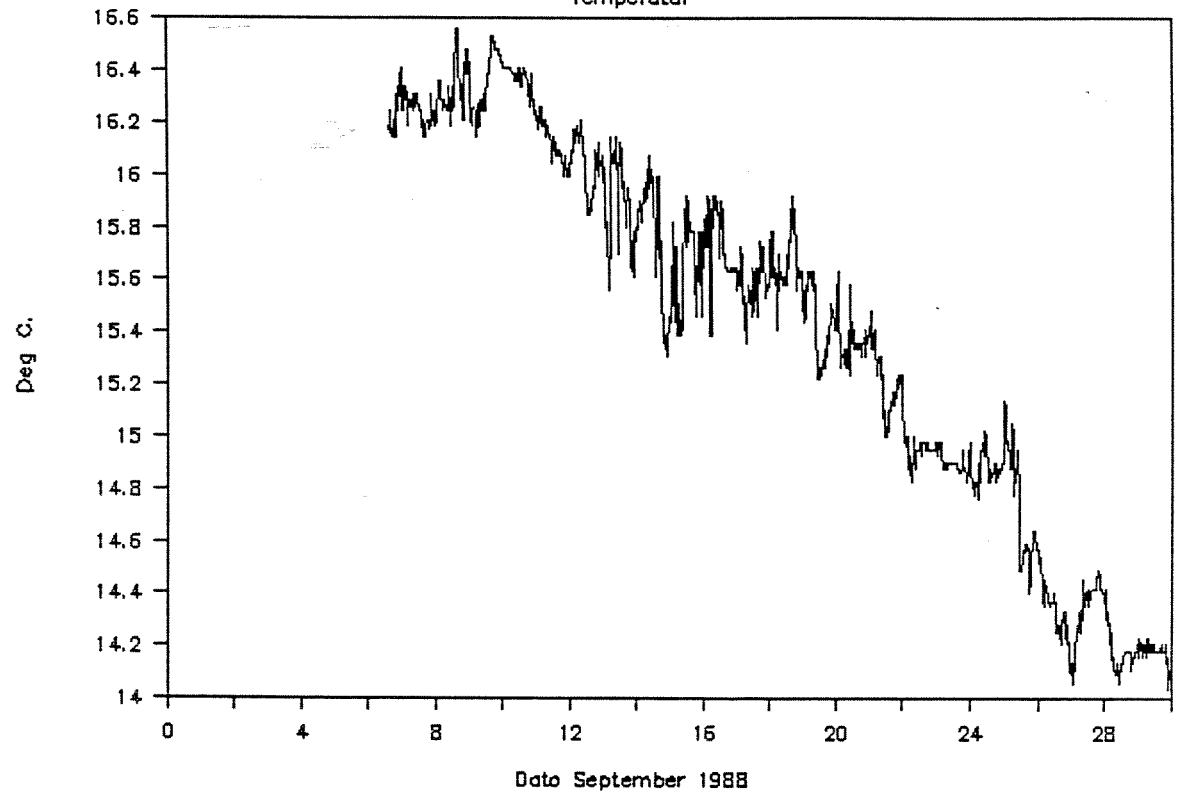
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Saltholdighet vs. strømhastighet



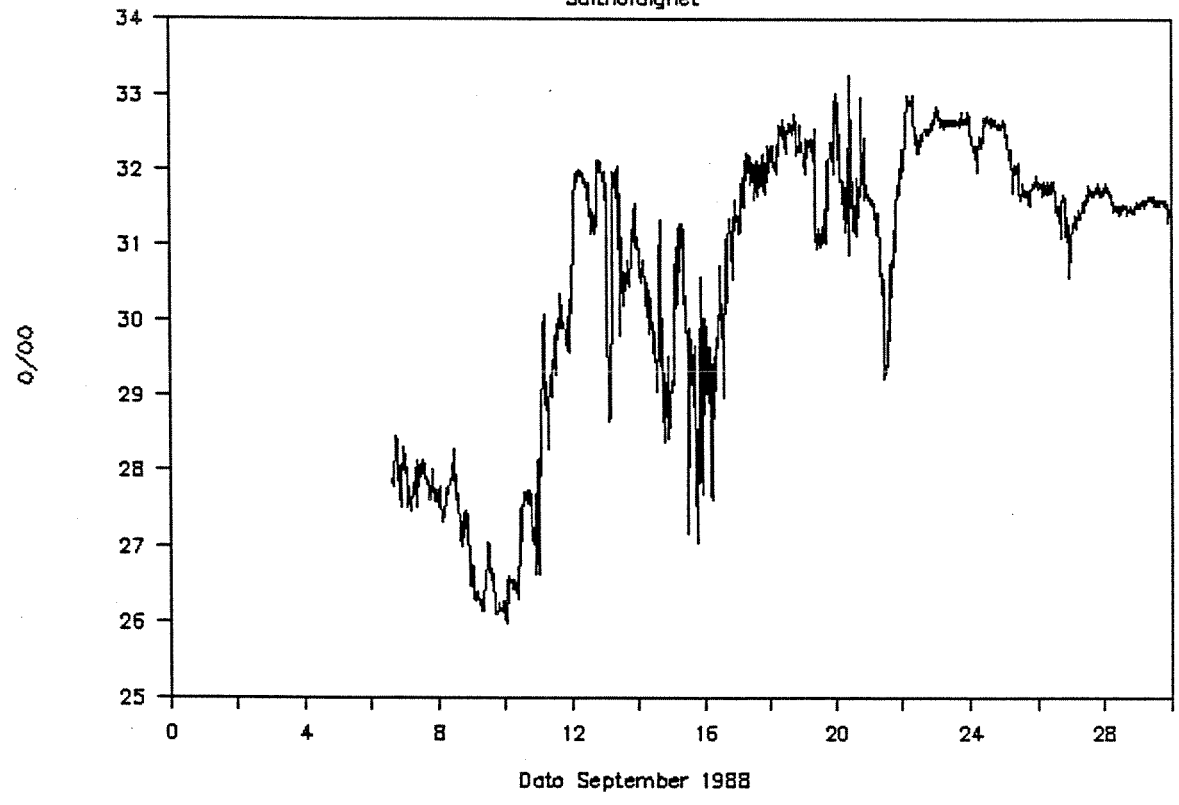
Grisebådarna 10 m.

Temperatur



Grisebådarna 10 m.

Saltholdighet

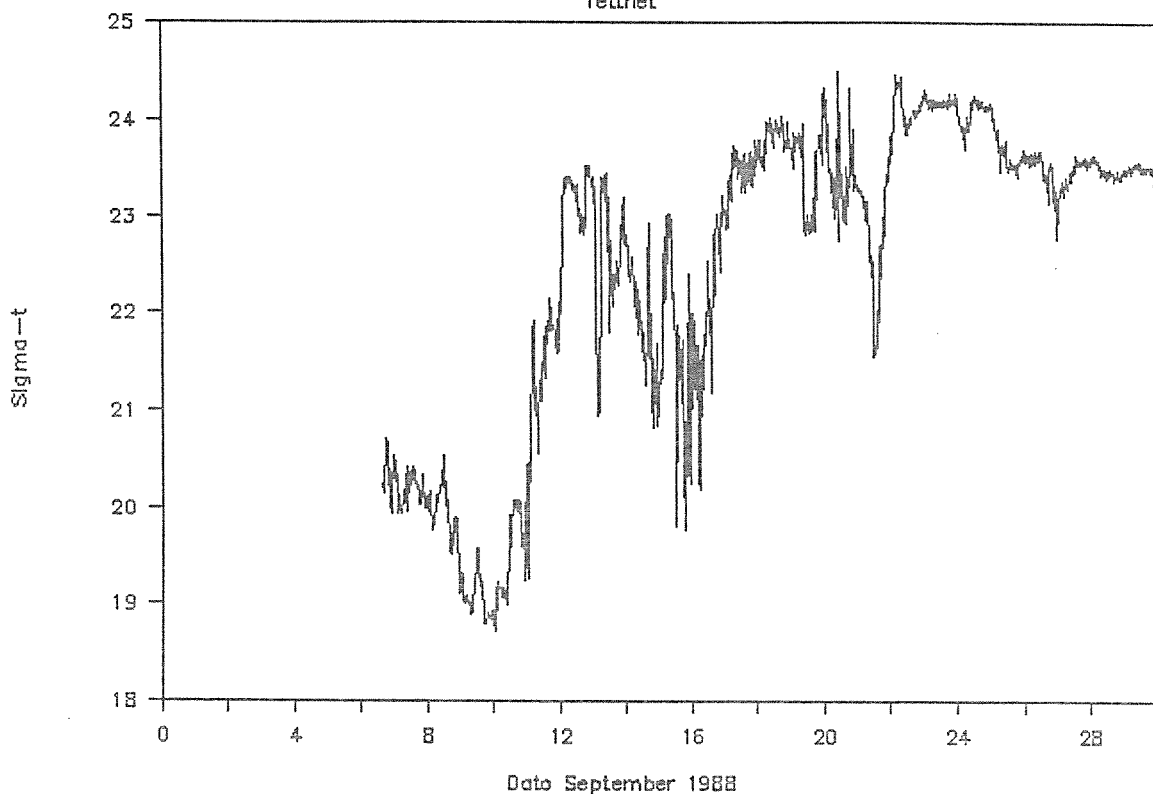


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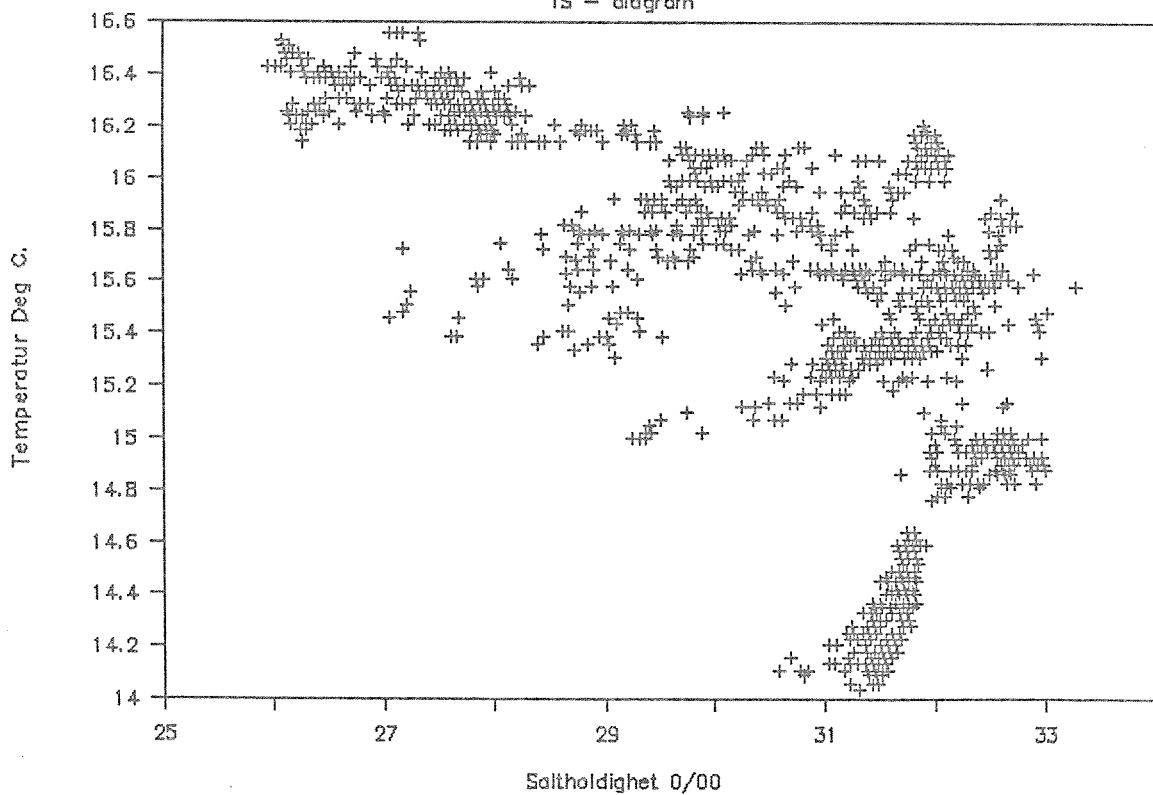
Grisebådarna 10 m.

Tetthet



Grisebådarna 10 m. September 1988

TS - diagram

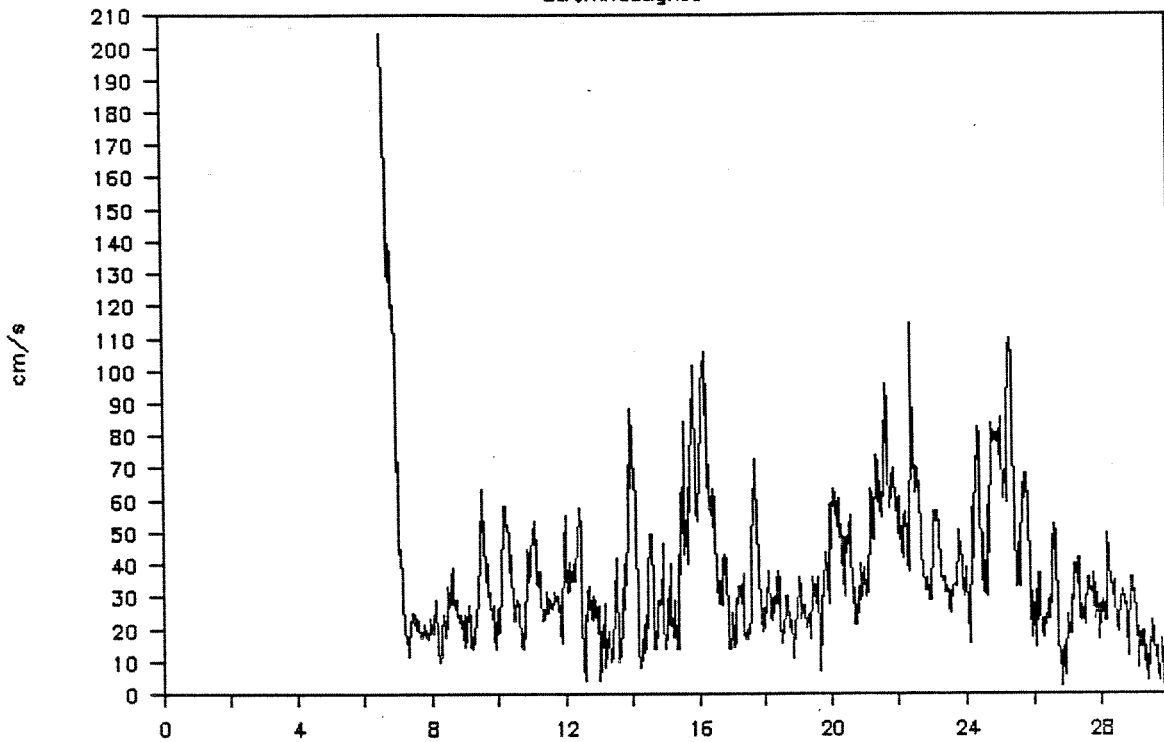


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Grisebådarna 10 m.

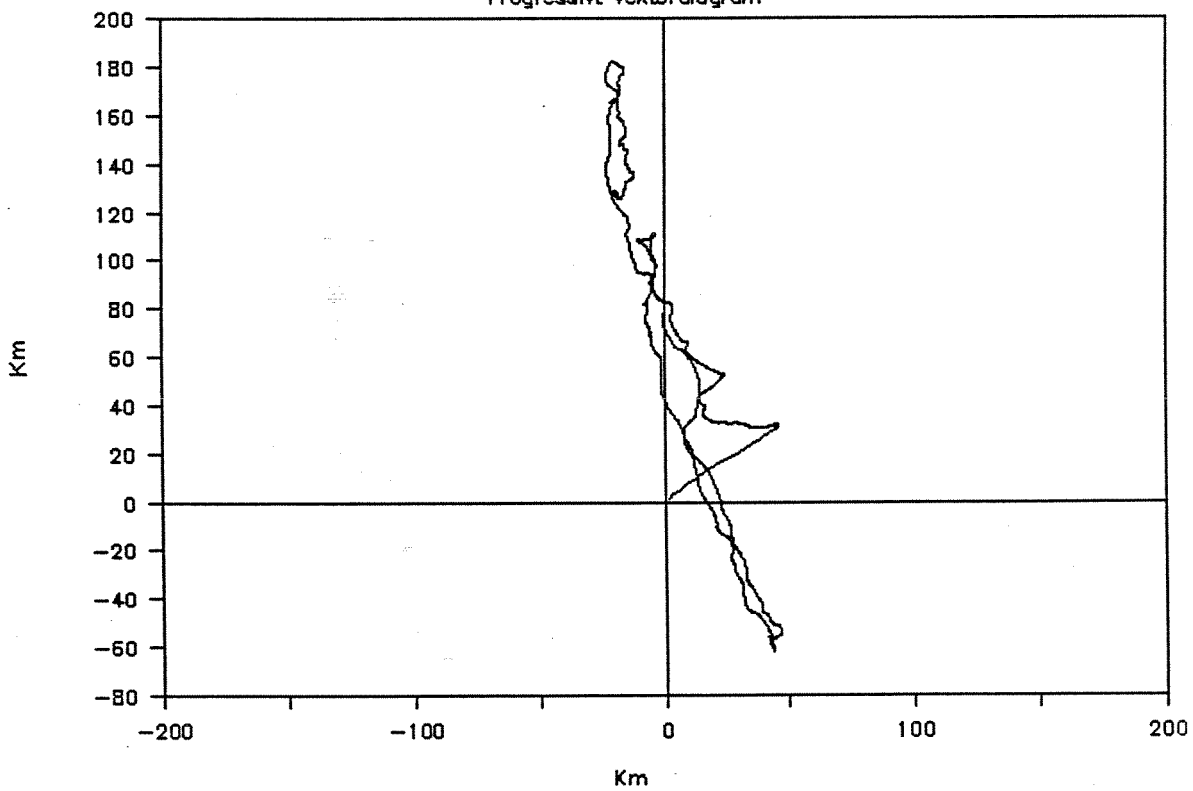
Strømhastighet



Date September 1988

Grisebådarna 10 m. September 1988

Progressivt vektordiagram

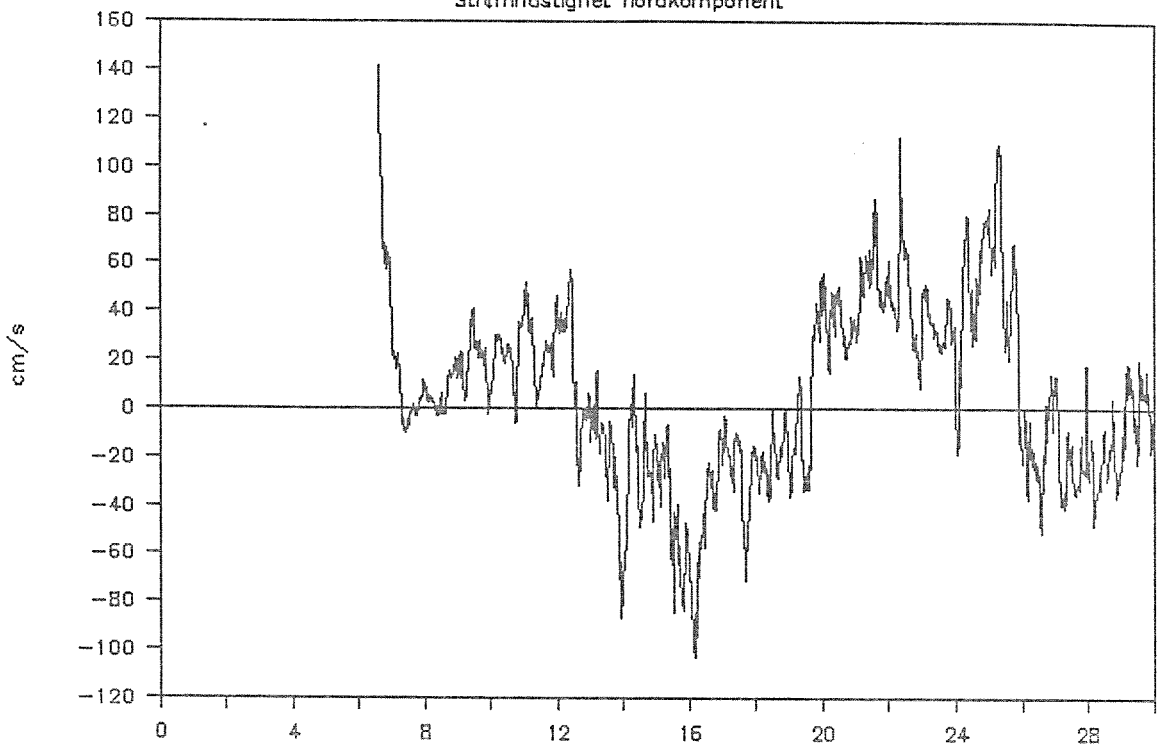


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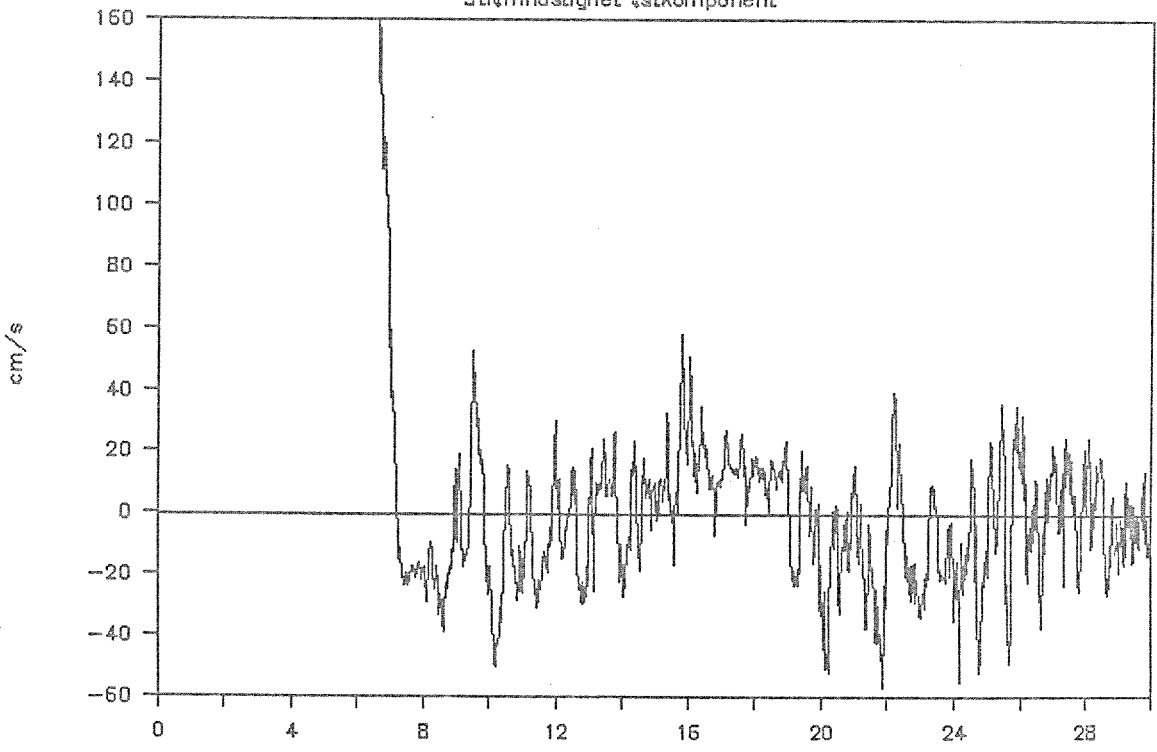
Grisebådarna 10 m.

Strømhastighet nordkomponent



Grisebådarna 10 m.

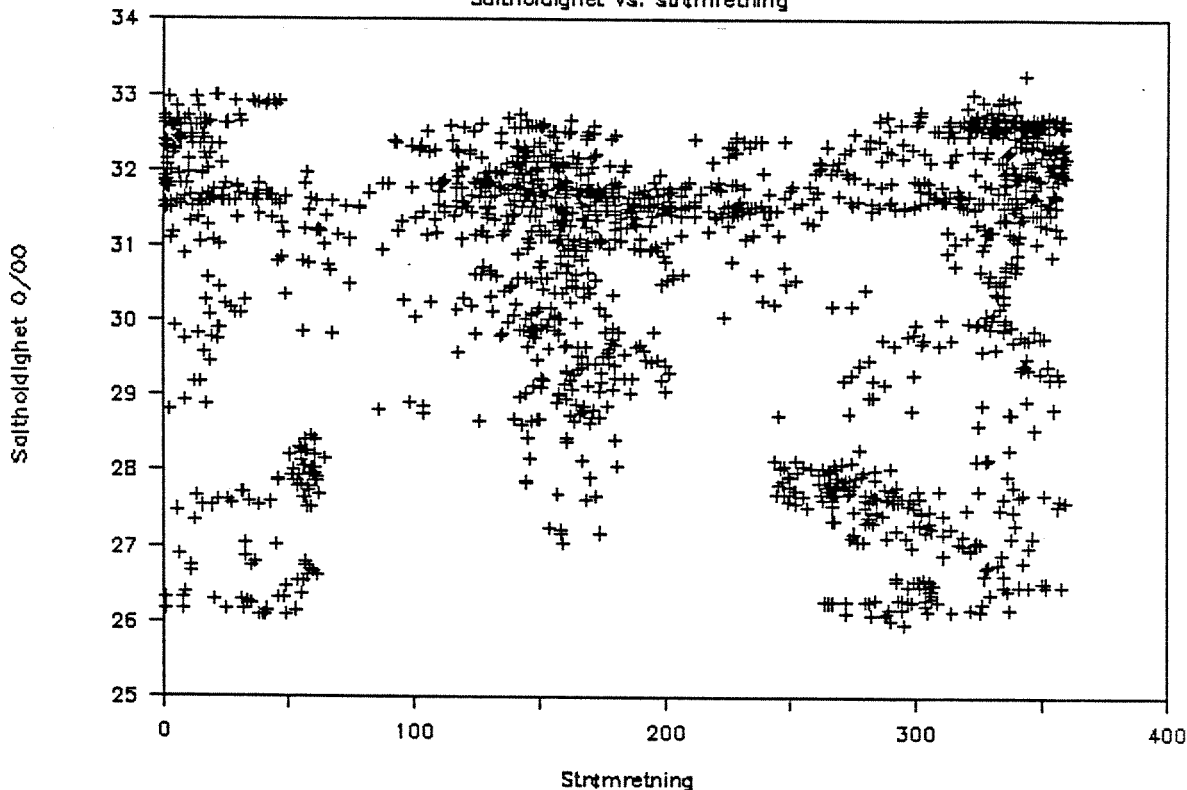
Strømhastighet østkomponent



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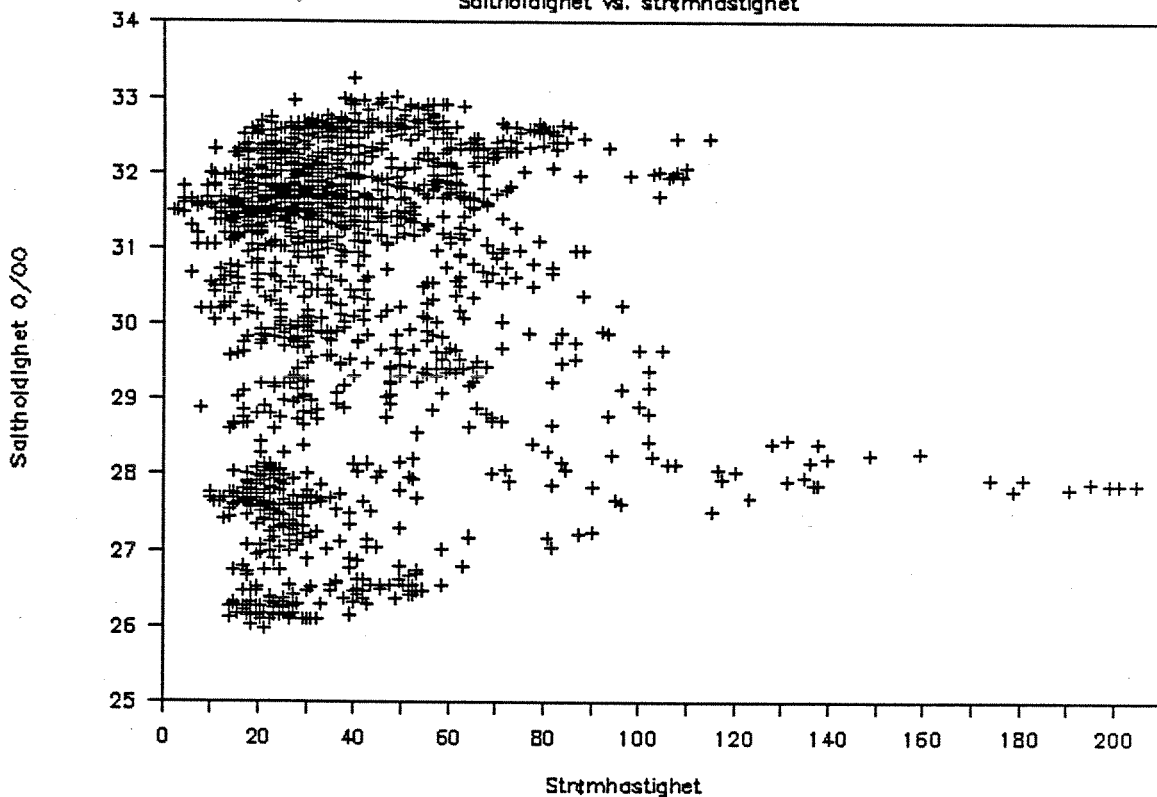
Grisebådarna 10 m. September 1988

Saltholdighet vs. strömretning



Grisebådarna 10 m. September 1988

Saltholdighet vs. strømhastighet

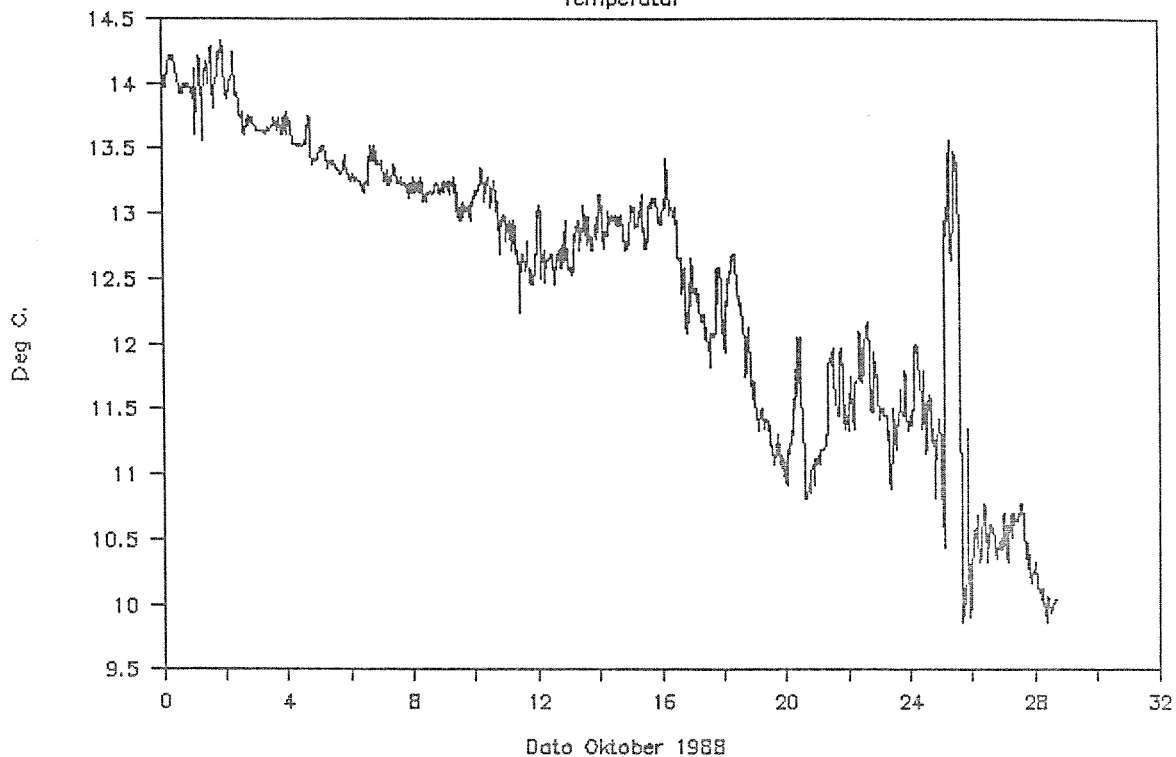


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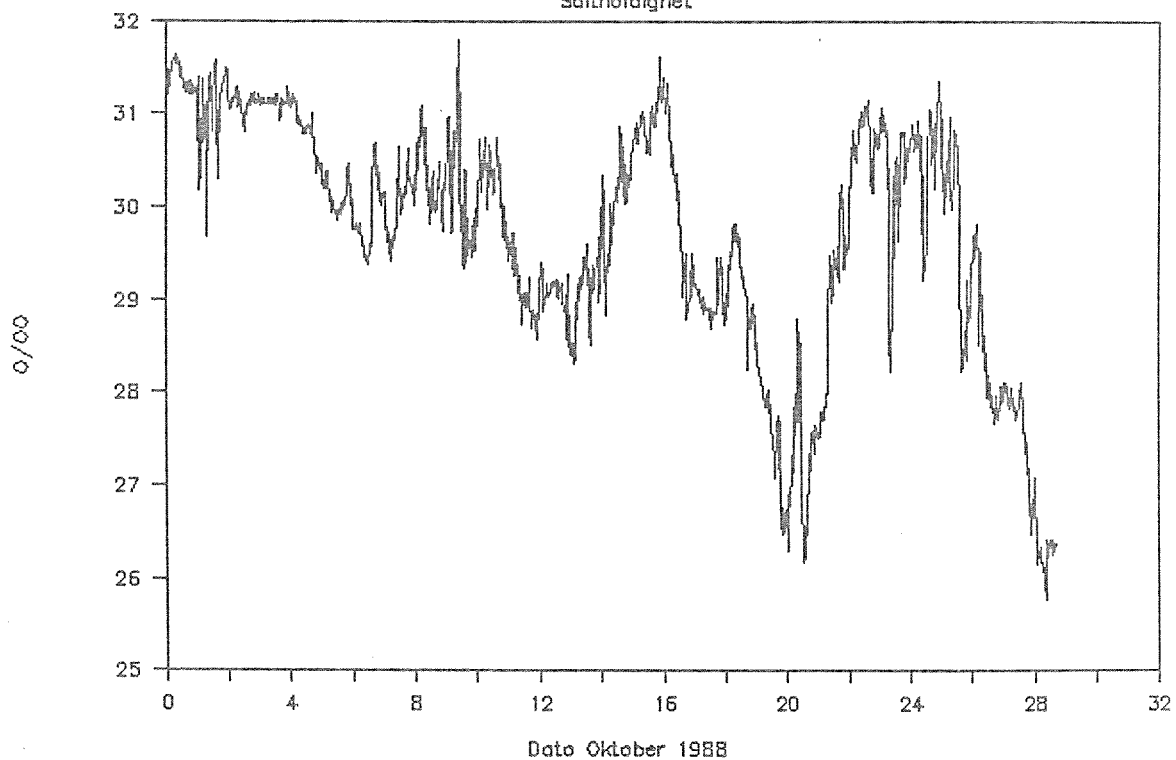
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Temperatur



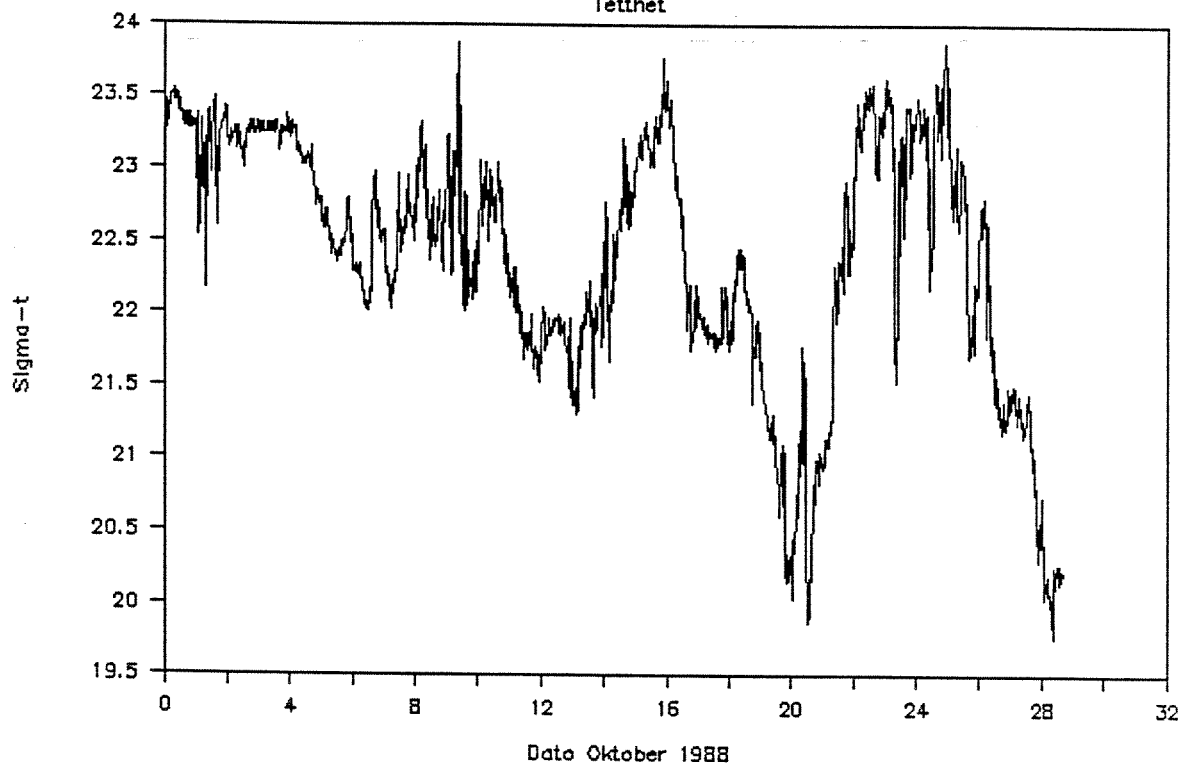
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Salttholdighet

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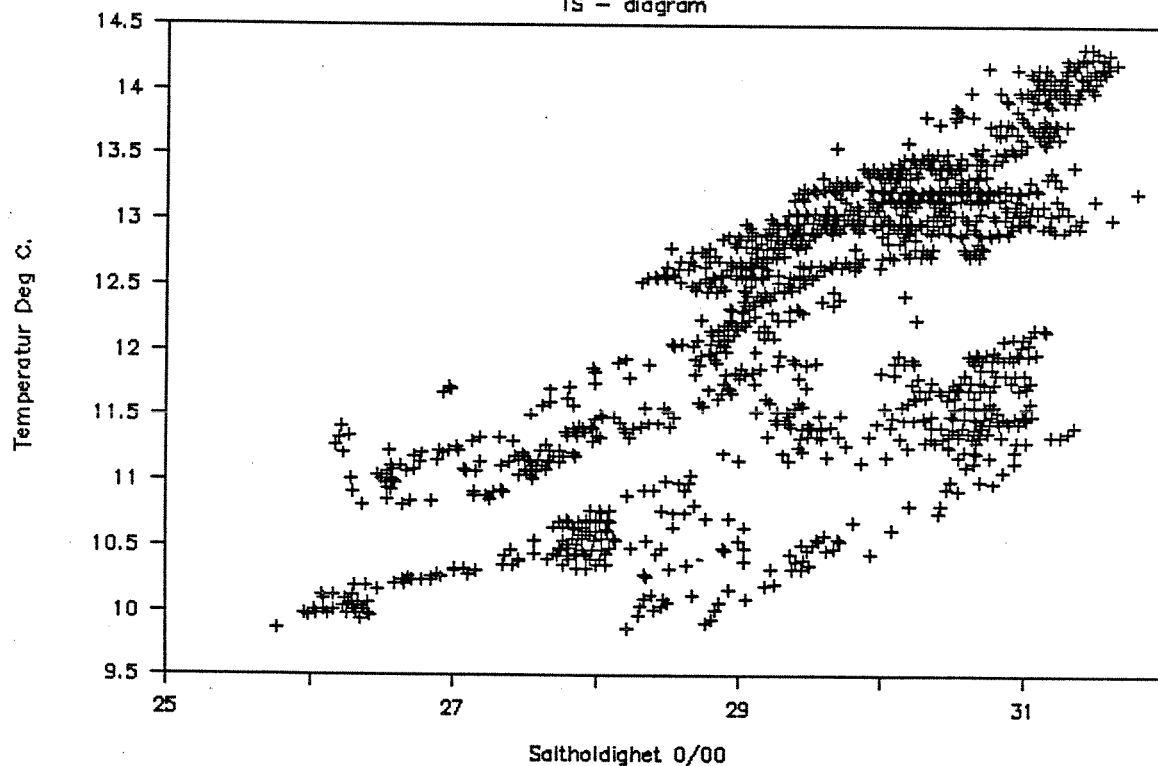
Grisebådarna 10 m.

Tetthet



Grisebådarna 10 m. Oktober 1988

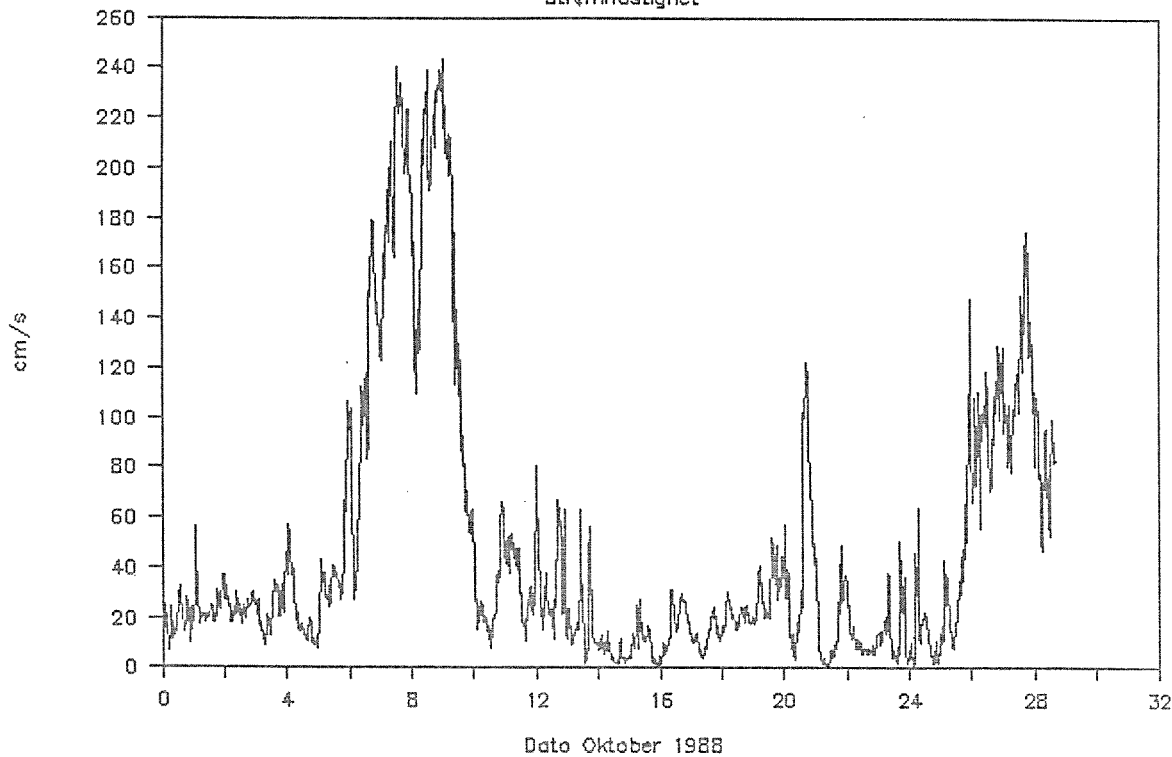
TS - diagram


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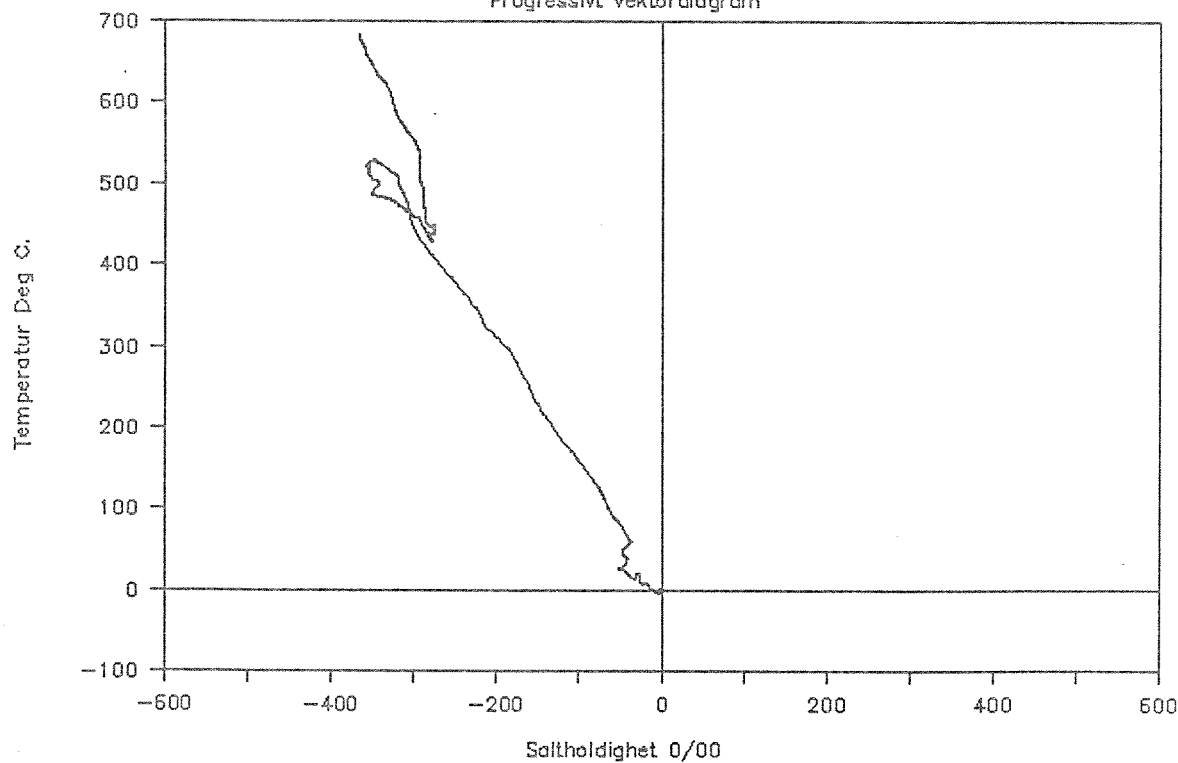
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Strømhastighet



Grisebådarna 10 m. Oktober 1988

Progressivt vektordiagram

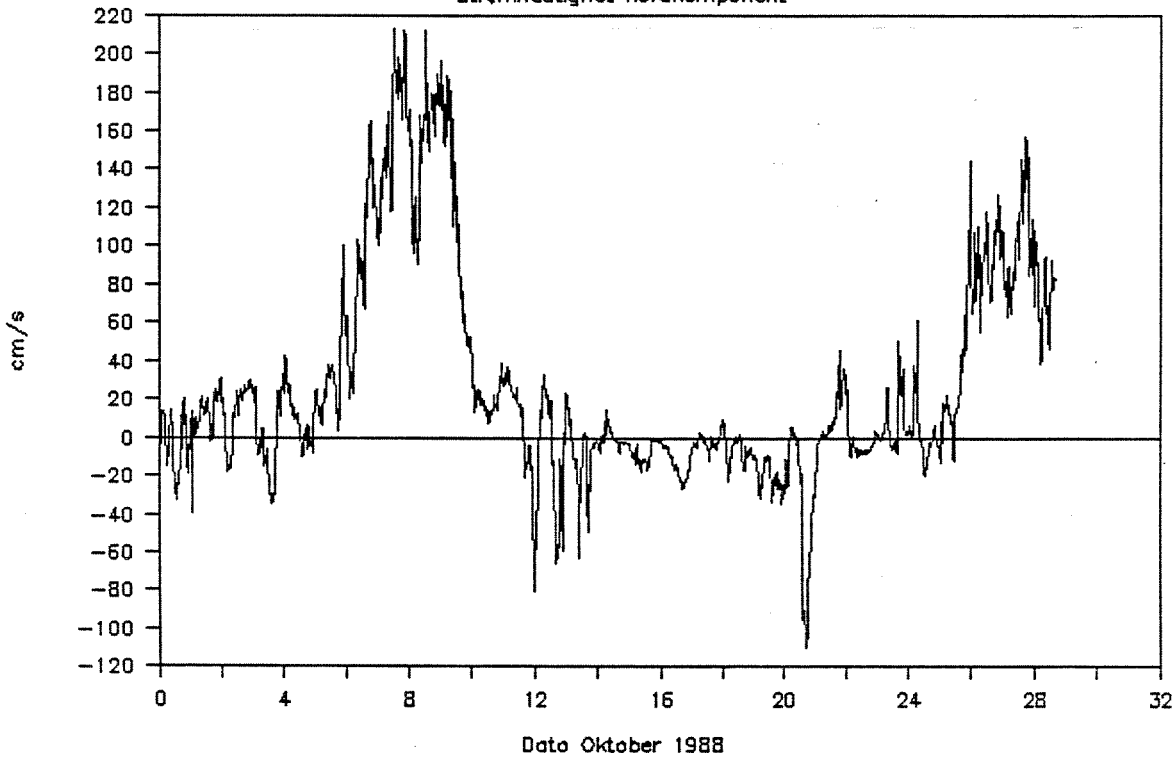


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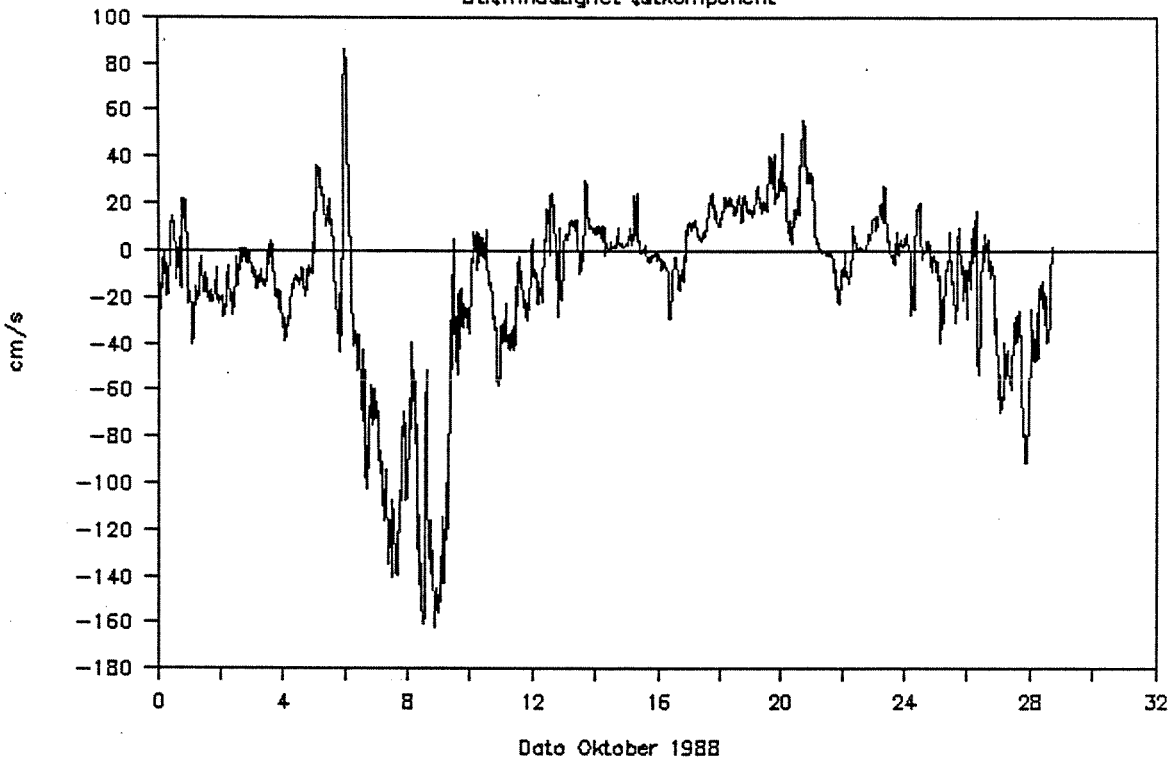
Grisebådarna 10 m.

Strømhastighet nordkomponent



Grisebådarna 10 m.

Strømhastighet østkomponent

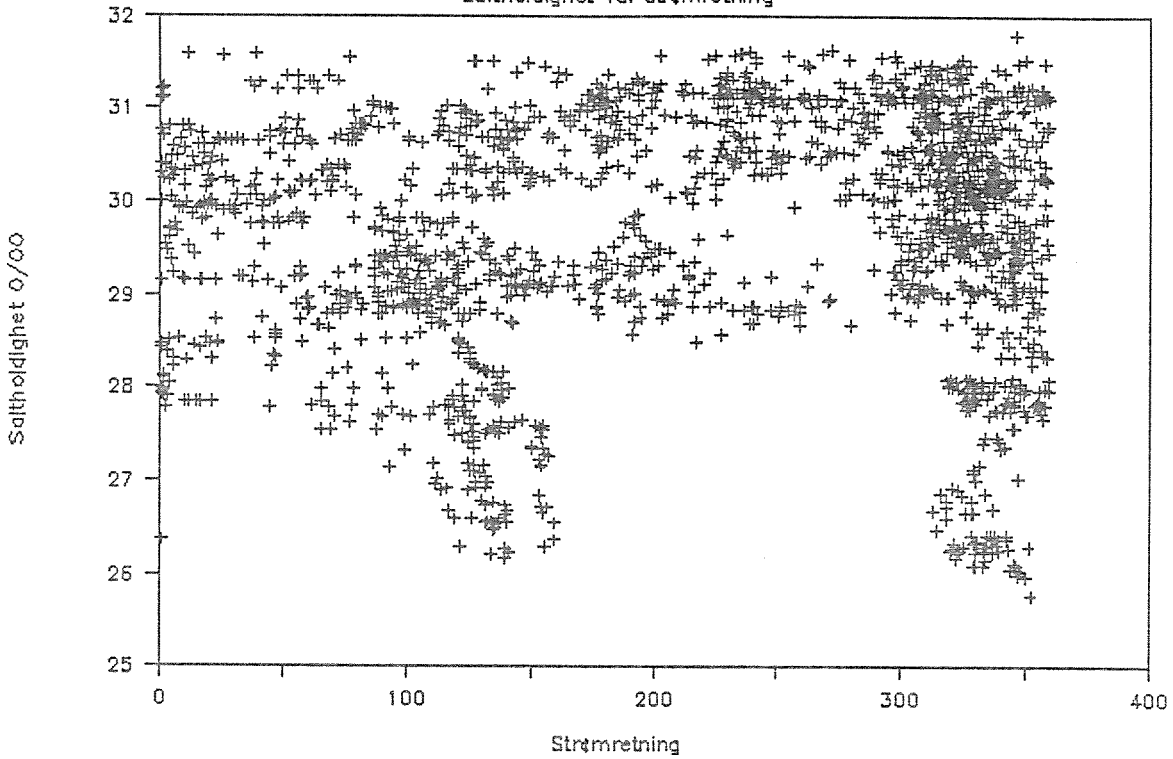


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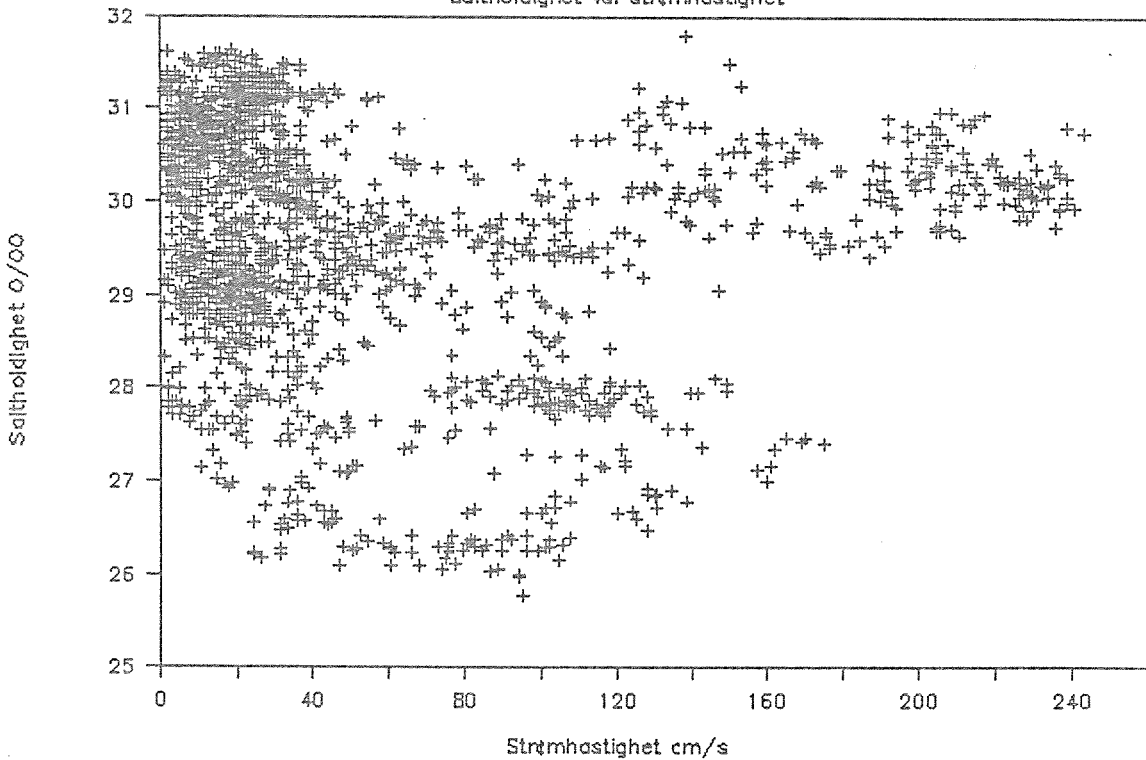
Grisebådarna 10 m. Oktober 1988

Saltholdighet vs. strømretning



Grisebådarna 10 m. Oktober 1988

Saltholdighet vs. strømhastighet



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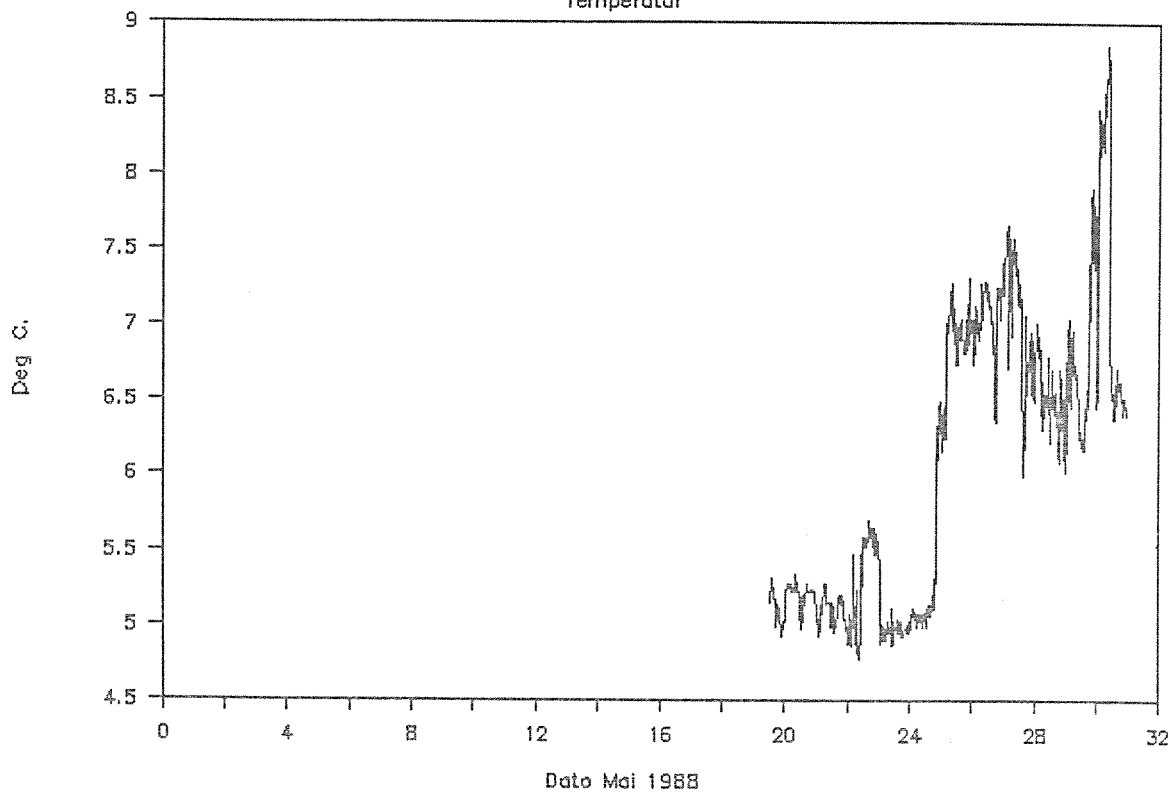
Veritas Offshore Technology
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FINAL ANALYSIS RESULTS IN CURRENT ELLIPSE FORM
 FOR STATION 9999, GRISEBAADENE 20 METERS, AT THE LOCATION 58 54, 10 48
 OVER THE PERIOD OF 14HR 20/ 5/88 TO 10HR 10/ 8/88
 GREENWICH PHASES ARE FOR TIME ZONE GMT

NAME	SPEED	MAJOR	MINOR	INC	G	G+	G-
1 Z0	.00000000	17.187	.000	162.8	.0	197.2	162.8
2 MM	.00151215	31.194	7.487	120.0	304.6	184.6	64.5
3 MSF	.00282193	14.929	4.335	85.1	213.0	127.9	298.0
4 ALP1	.03439657	8.399	-2.213	64.1	189.1	125.0	253.1
5 2Q1	.03570635	3.062	.293	177.8	302.7	124.9	120.4
6 Q1	.03721850	9.251	-.371	115.9	278.7	162.9	34.6
7 O1	.03873065	4.610	-1.403	79.7	36.8	317.1	116.6
8 NO1	.04026860	4.294	-.136	124.0	161.6	37.6	285.7
9 K1	.04178075	5.565	-1.295	148.4	108.8	320.4	257.2
10 J1	.04329290	1.656	-.269	127.5	325.2	197.7	92.7
11 O01	.04483084	2.281	.257	111.4	285.3	173.8	36.7
12 UPS1	.04634299	2.843	.425	90.8	323.3	232.5	54.0
13 EPS2	.07617731	3.203	-.036	53.1	264.0	211.0	317.1
14 MU2	.07768947	9.414	-4.097	101.6	222.9	121.2	324.5
15 N2	.07899925	3.945	-1.616	13.4	123.3	110.0	136.7
16 M2	.08051140	7.670	3.513	72.8	101.5	28.7	174.2
17 L2	.08202355	6.656	4.047	20.6	315.2	294.5	335.8
18 S2	.08333334	3.547	1.221	31.3	9.6	338.4	40.9
19 ETA2	.08507364	1.927	.026	72.3	204.4	132.2	276.7
20 M03	.11924210	1.382	.330	158.1	299.9	141.8	98.1
21 M3	.12076710	2.050	.964	81.4	4.7	283.3	86.0
22 MK3	.12229210	3.141	-1.742	63.9	200.5	136.7	264.4
23 SK3	.12511410	3.014	-.845	51.0	276.9	225.9	327.9
24 MN4	.15951060	1.391	.554	78.1	67.4	349.3	145.6
25 M4	.16102280	1.513	-.663	121.3	86.2	324.9	207.5
26 SN4	.16233260	3.608	-.889	86.1	248.1	162.0	334.2
27 MS4	.16384470	1.661	.507	168.6	296.9	128.3	105.5
28 S4	.16666670	1.641	-.447	127.1	57.3	290.2	184.5
29 2MK5	.20280360	1.973	-.142	65.7	63.0	357.3	128.7
30 2SK5	.20844740	1.353	-.500	14.2	276.0	261.8	290.2
31 2MN6	.24002200	1.742	-.817	76.7	31.0	314.3	107.6
32 M6	.24153420	1.948	-.276	123.4	68.0	304.6	191.4
33 2MS6	.24435610	1.057	.591	127.7	271.3	143.6	39.0
34 2SM6	.24717810	1.382	.148	85.4	60.9	335.5	146.3
35 3MK7	.28331490	1.091	-.470	111.3	263.9	152.5	15.2
36 M8	.32204560	1.075	-.347	142.4	110.2	327.8	252.6

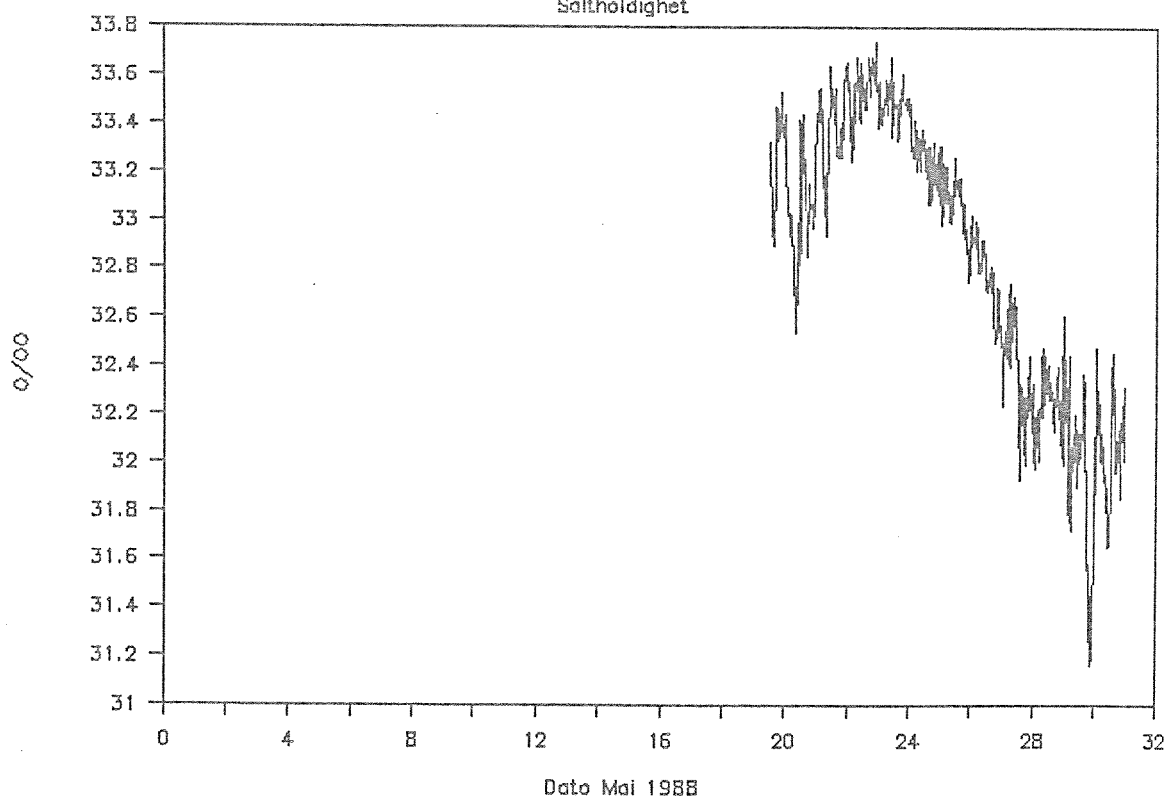
Grisebådarna 20 m. Mai 1988

Temperatur



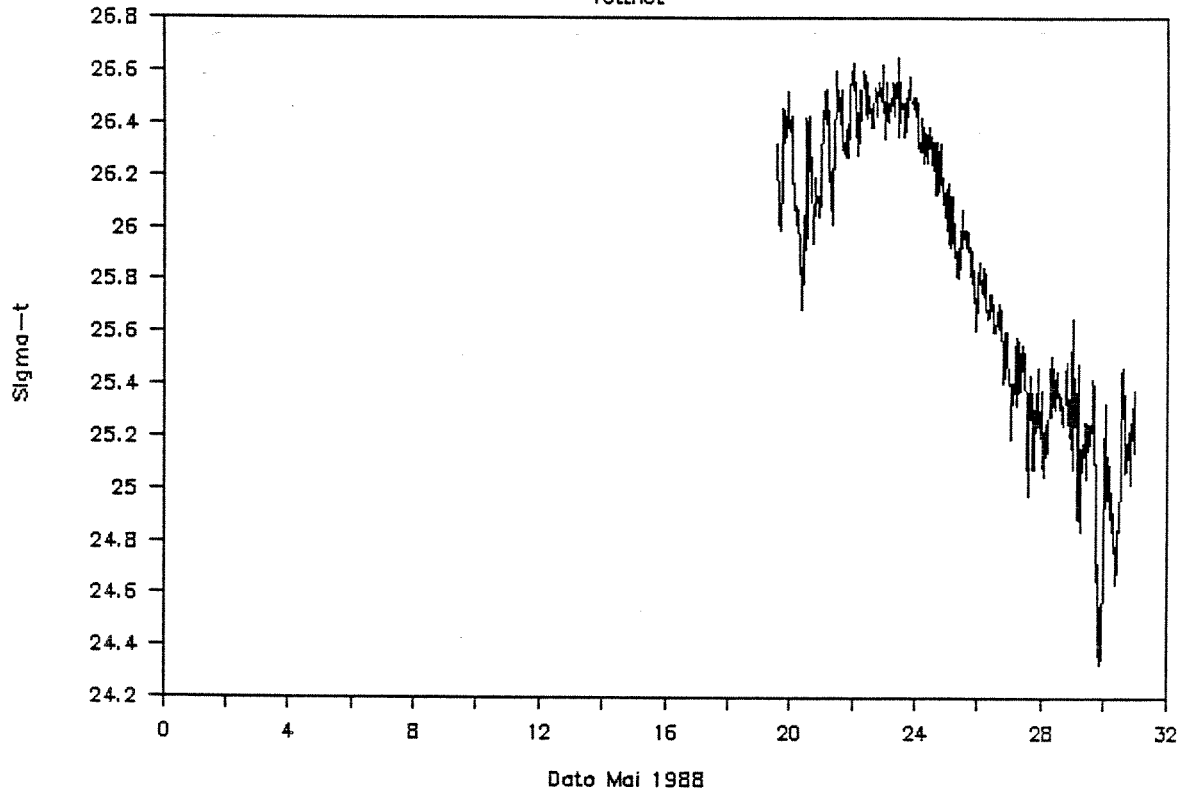
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Salttholdighet

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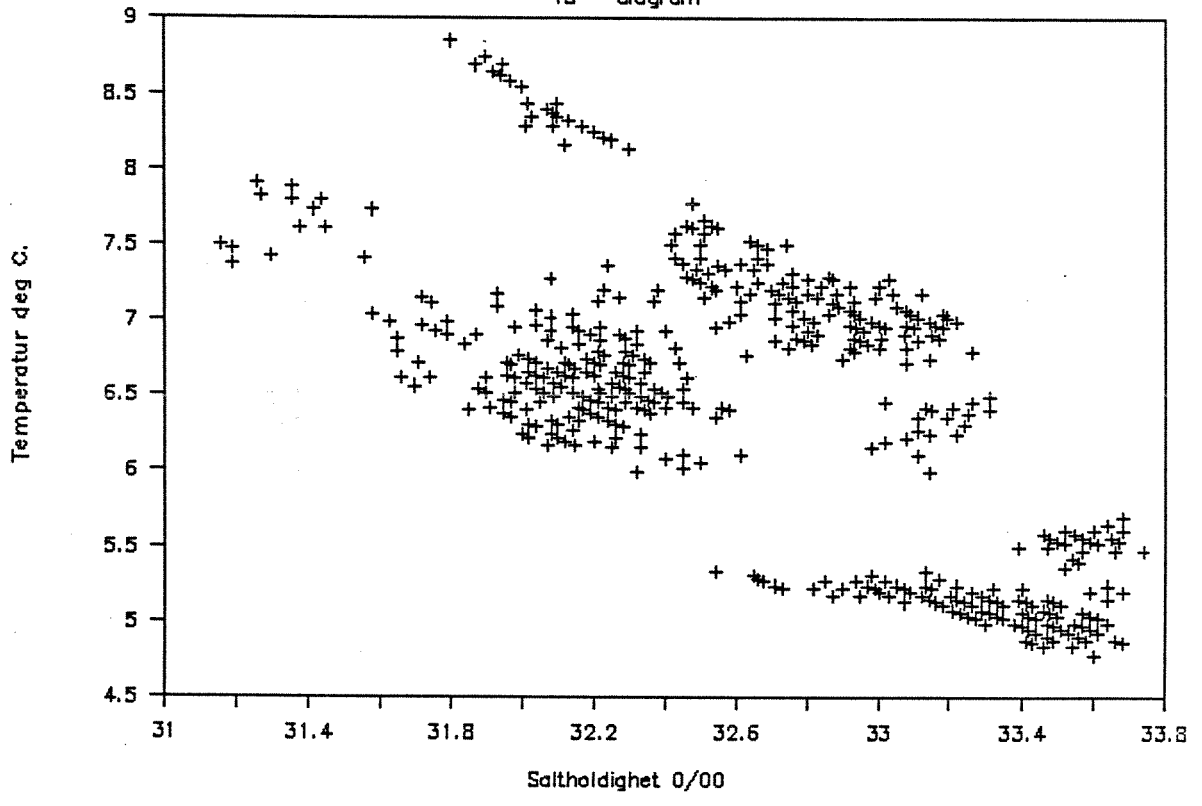
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Tetthet



Grisebådarna 20 m. Mai 1988

TS - diagram

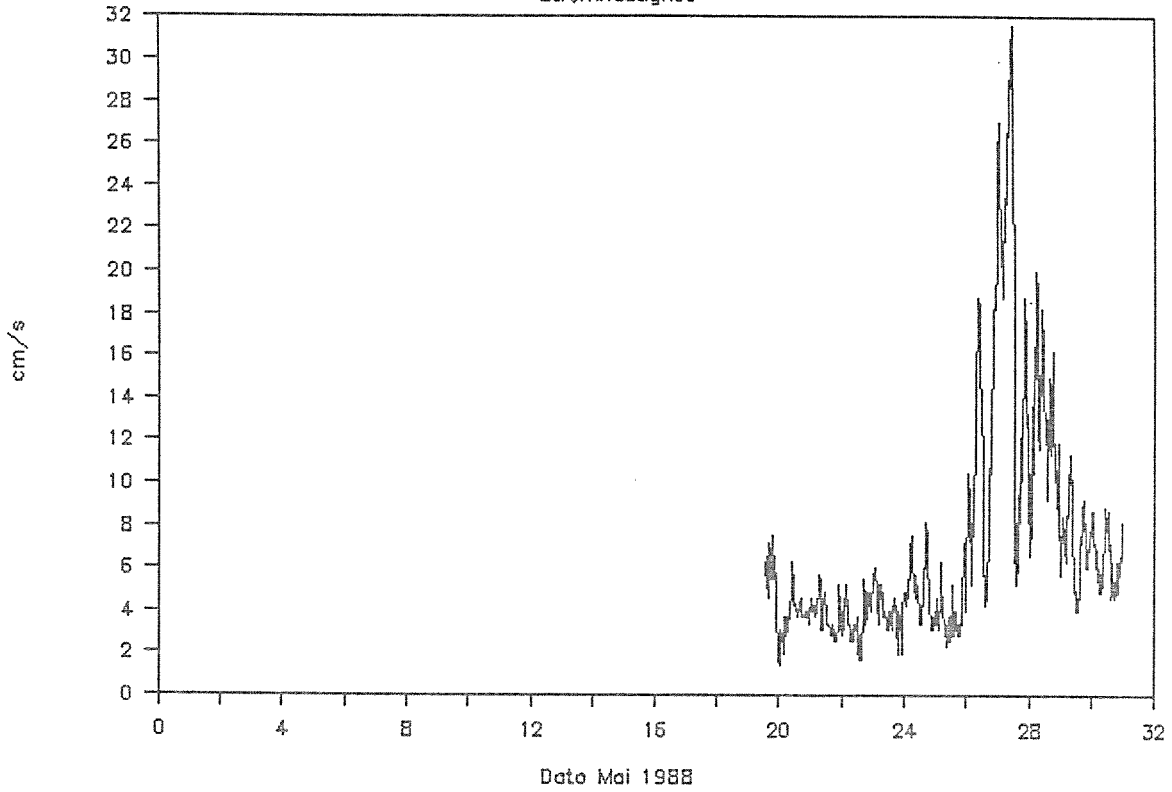


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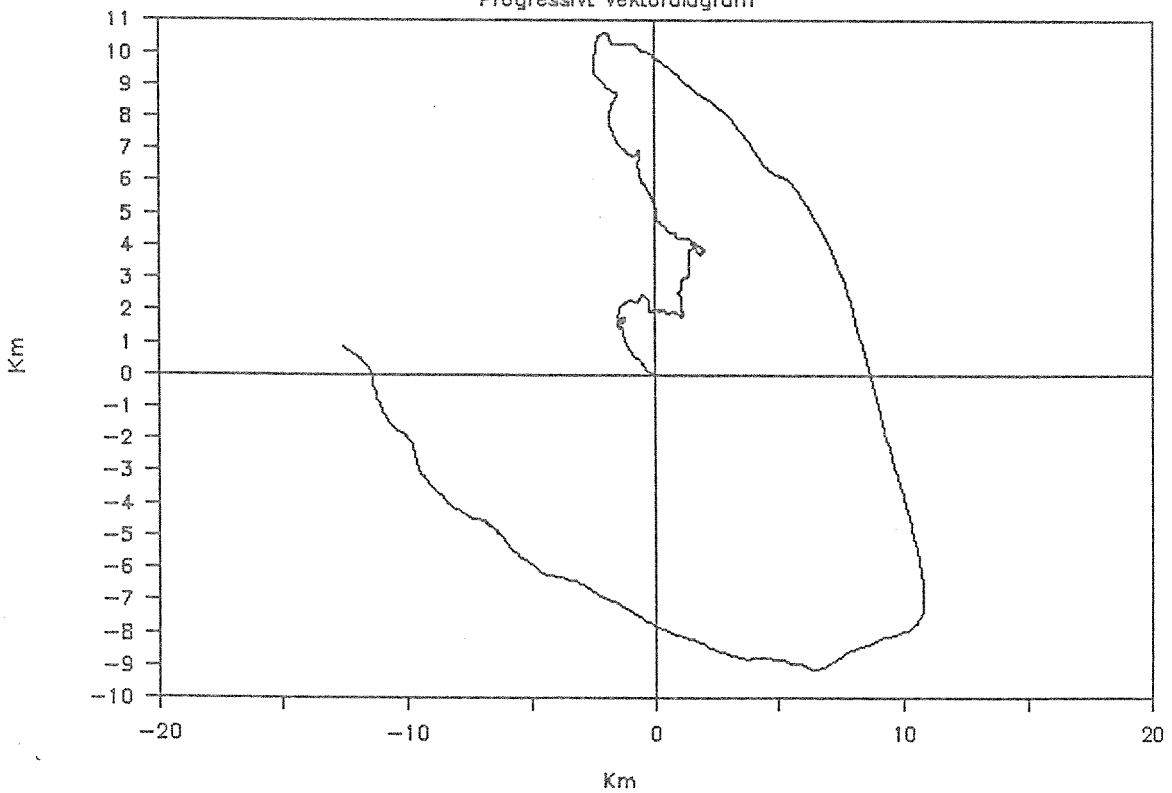
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Strømhastighet



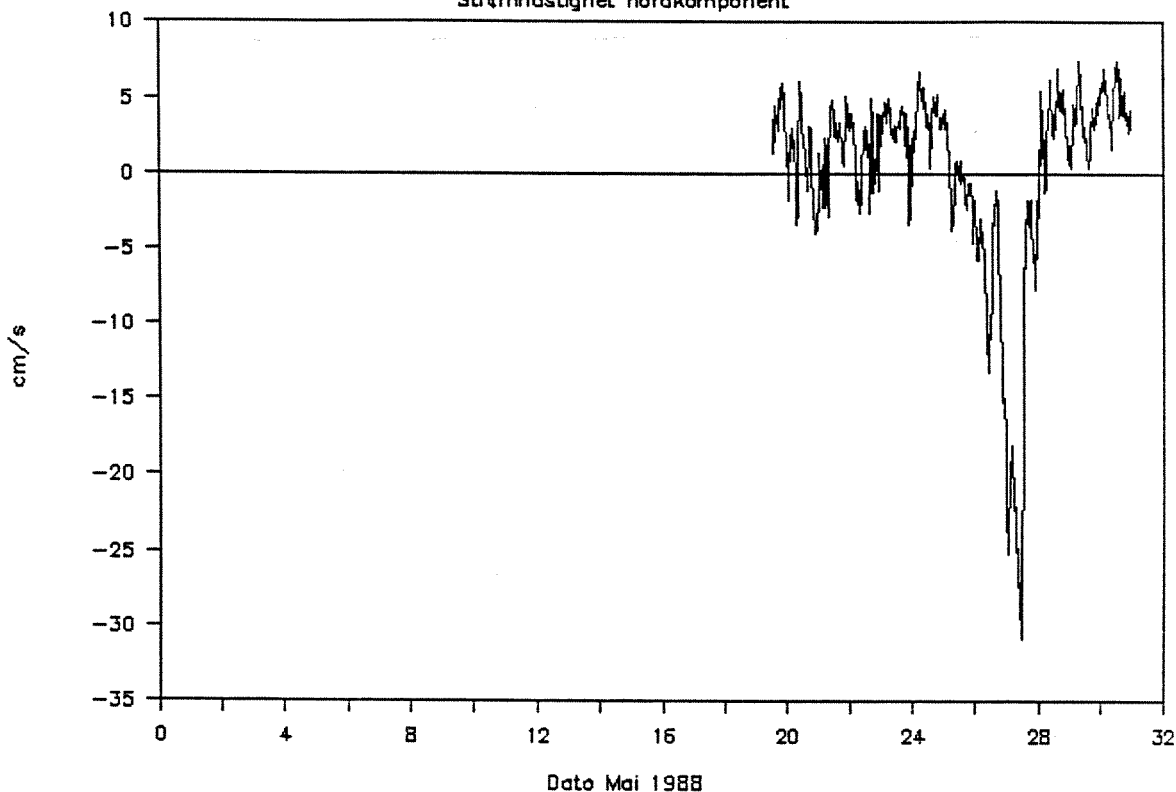
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Progressivt Vektordiagram



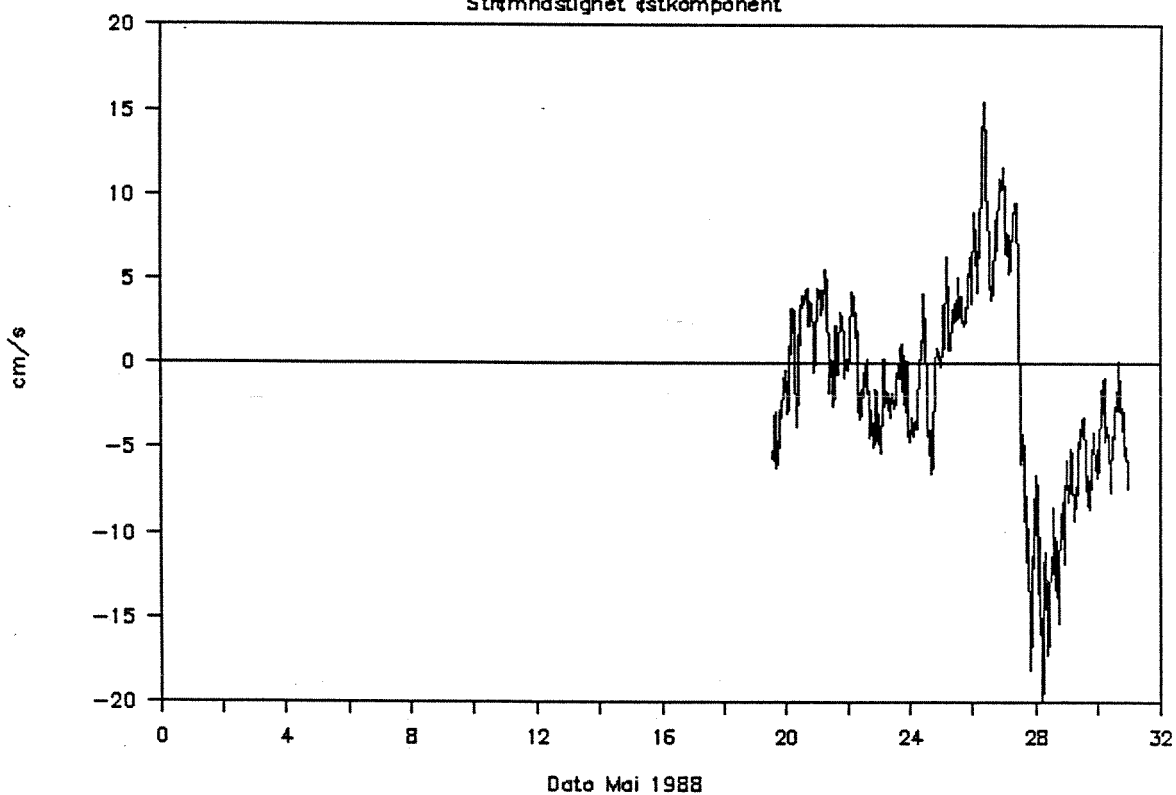
Grisebådarna 20 m. Mai 1988

Strømhastighet nordkomponent



Grisebådarna 20 m. Mai 1988

Strømhastighet østkomponent

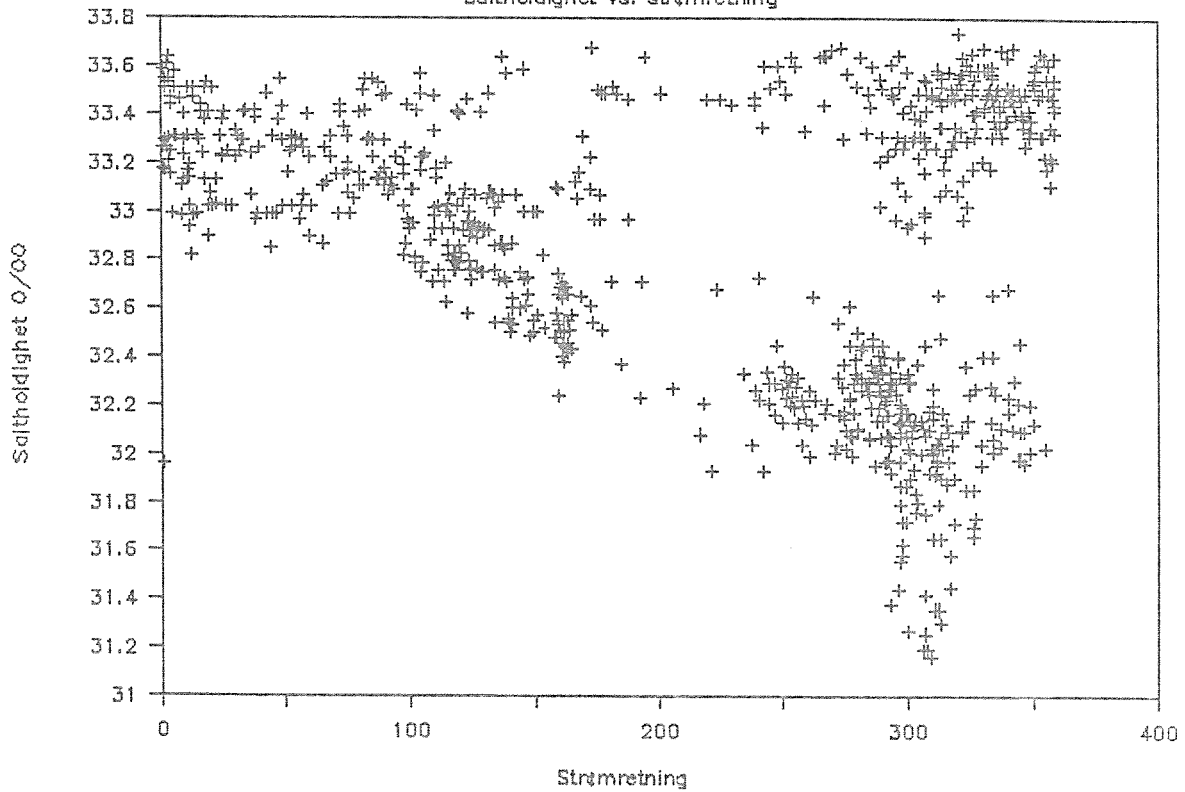


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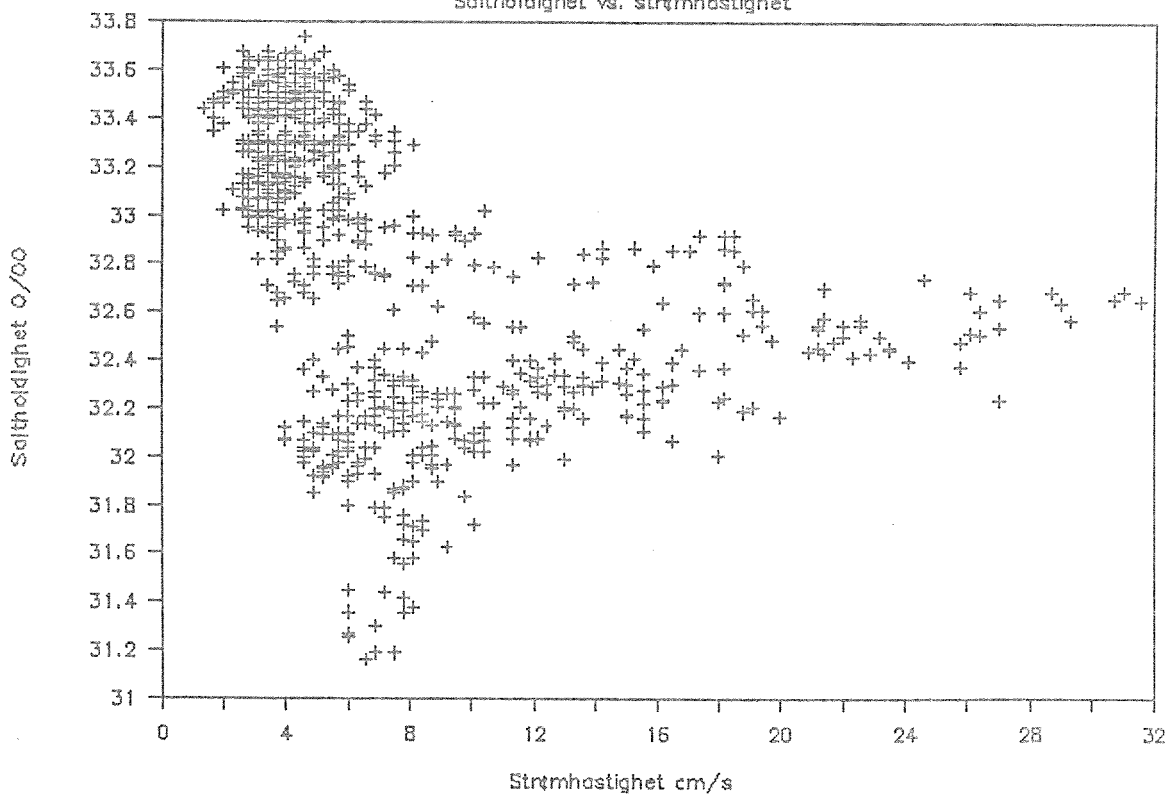
Grisebådarna 20 m. Mai 1988

Saltholdighet vs. strømretning



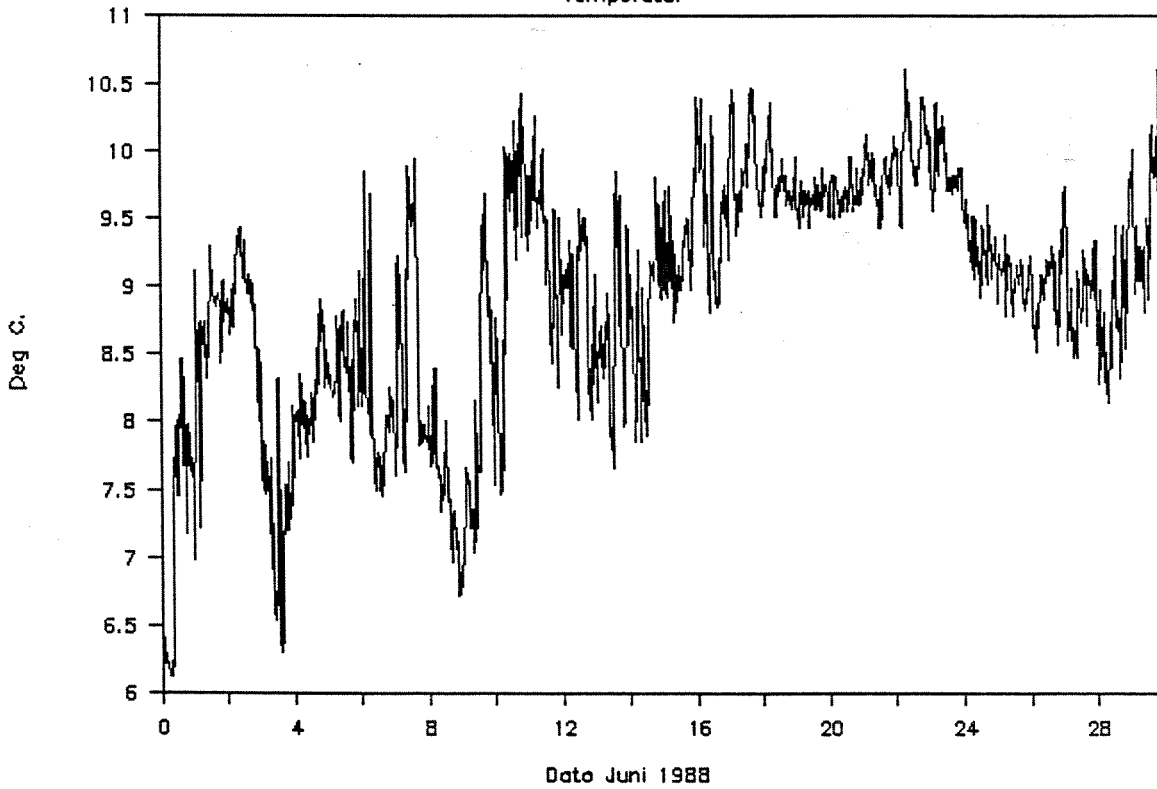
Grisebådarna 20 m. Mai 1988

Saltholdighet vs. strømhastighet

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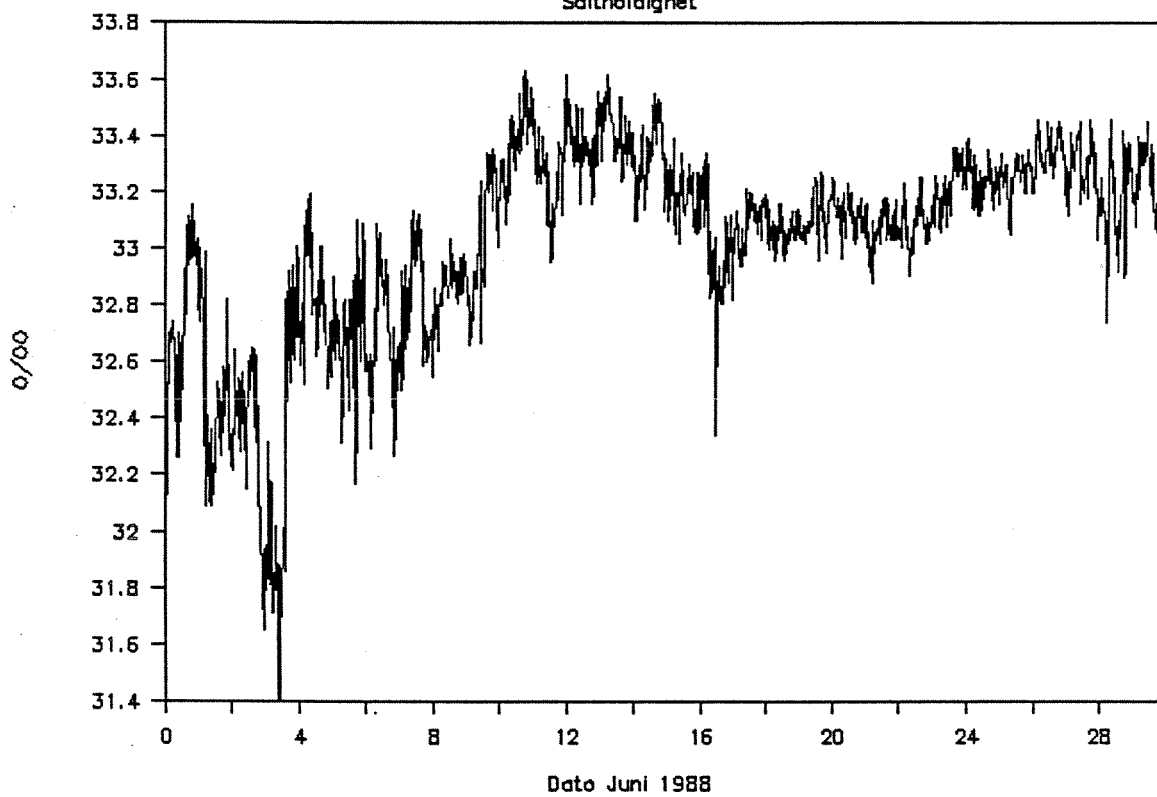
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Temperatur



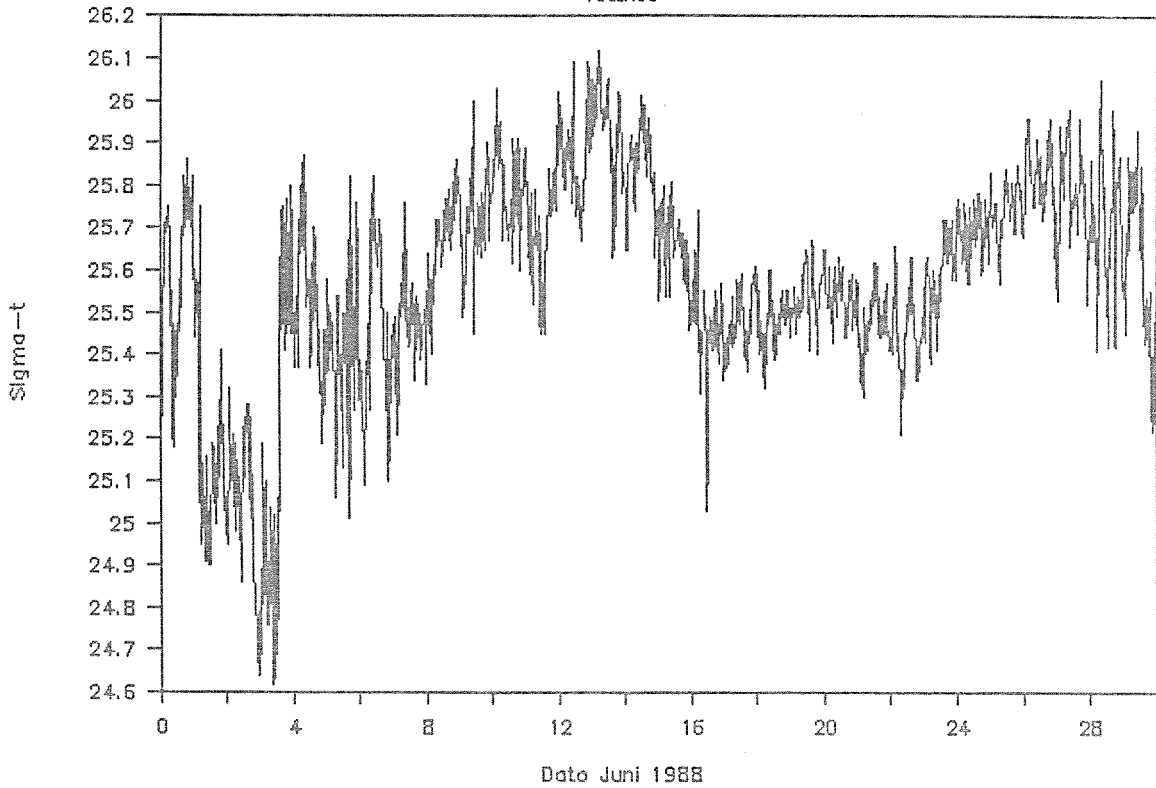
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Saltholdighet

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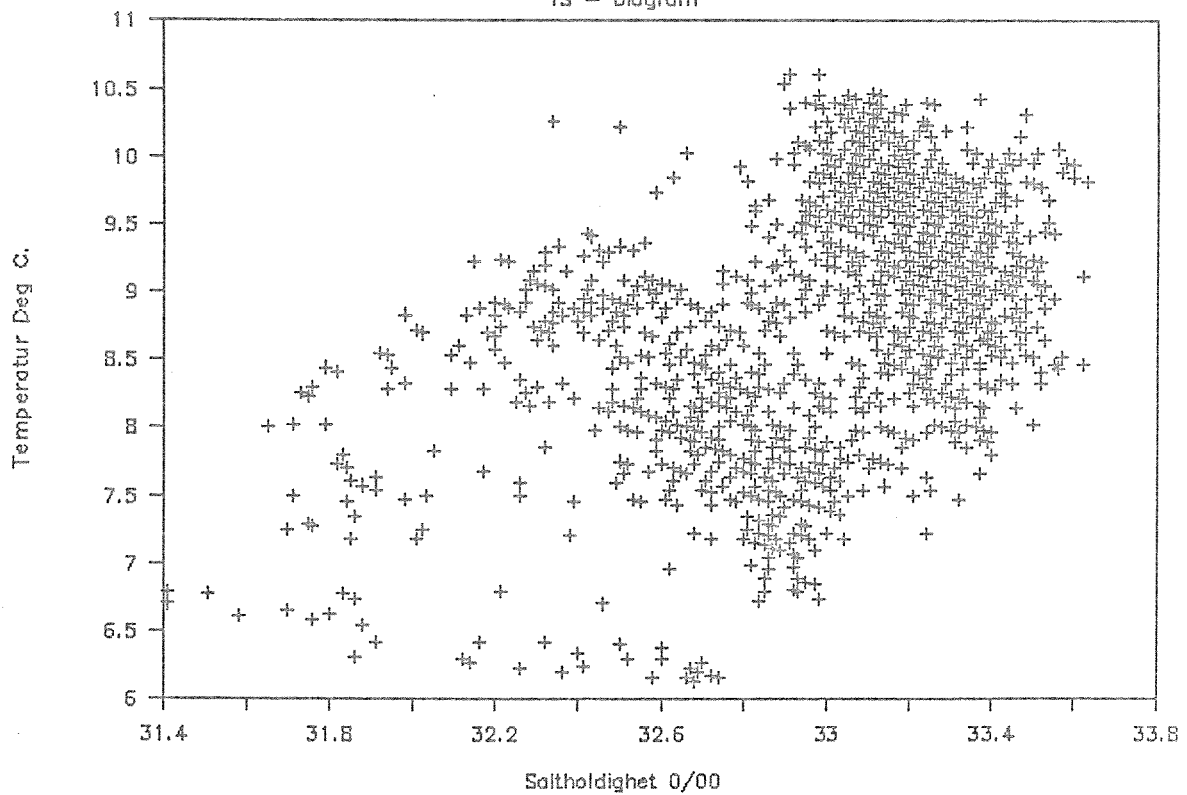
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Tetthet



Grisebådarna 20 m. Juni 1988

TS - Diagram

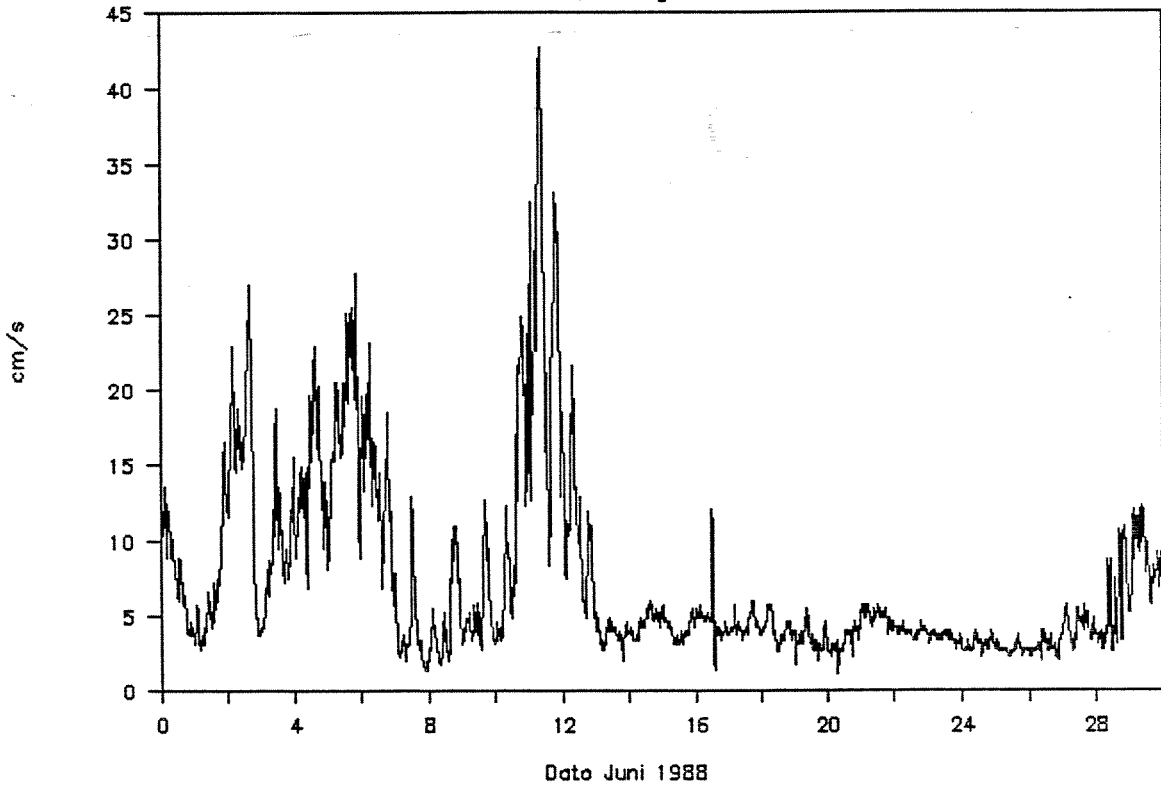


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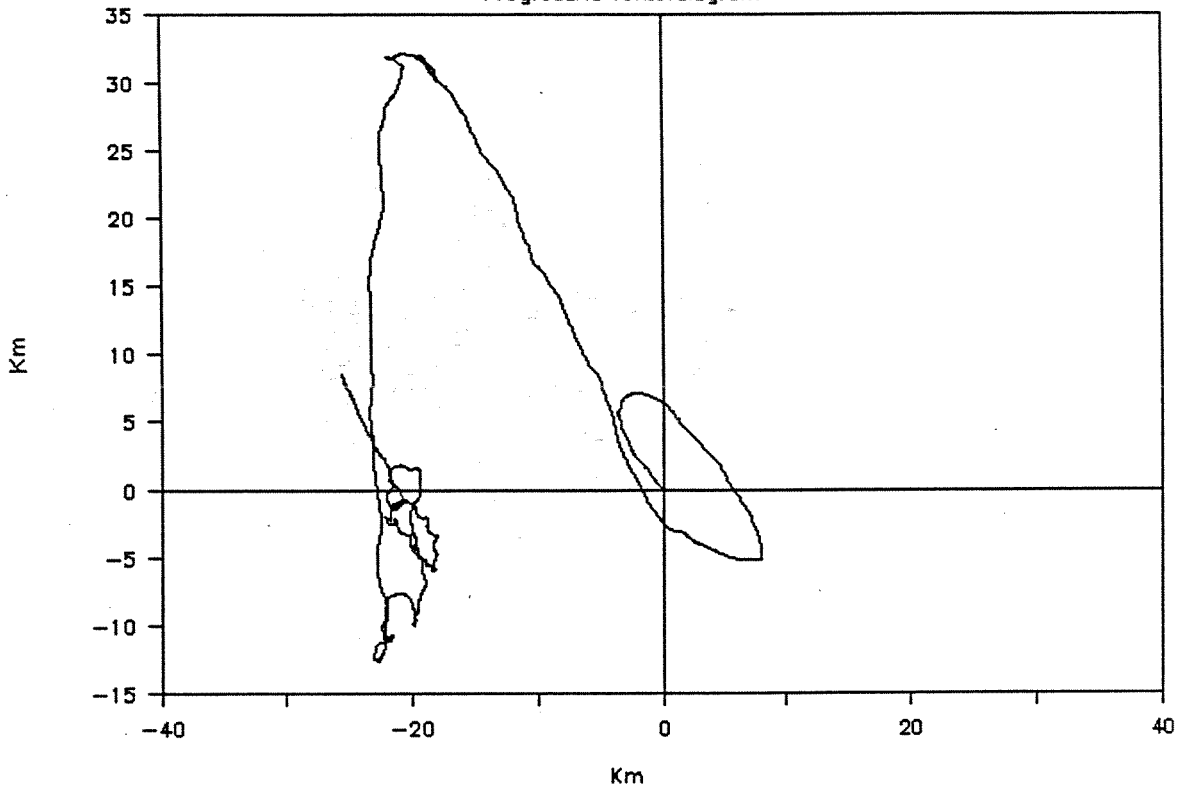
Grisebådarna 20 m.

Strømhastighet



Grisebådarna 20 m. Juni 1988

Progressivt Vektordiagram

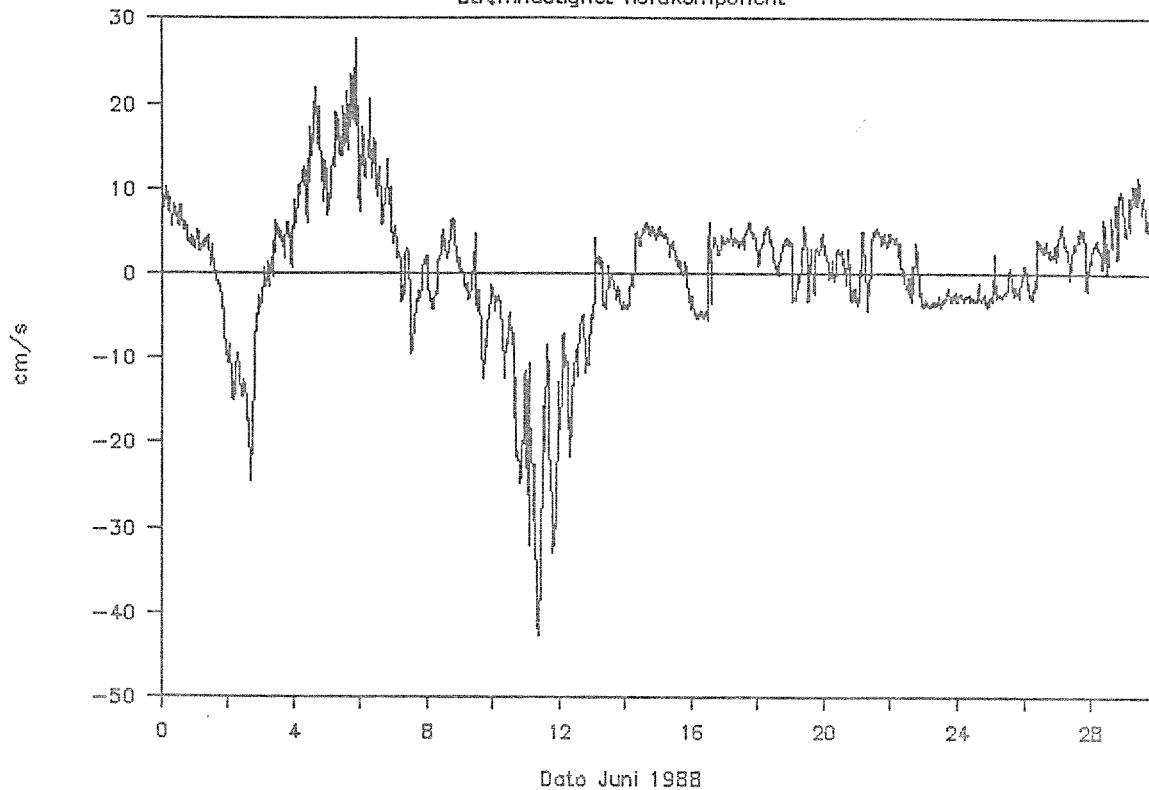


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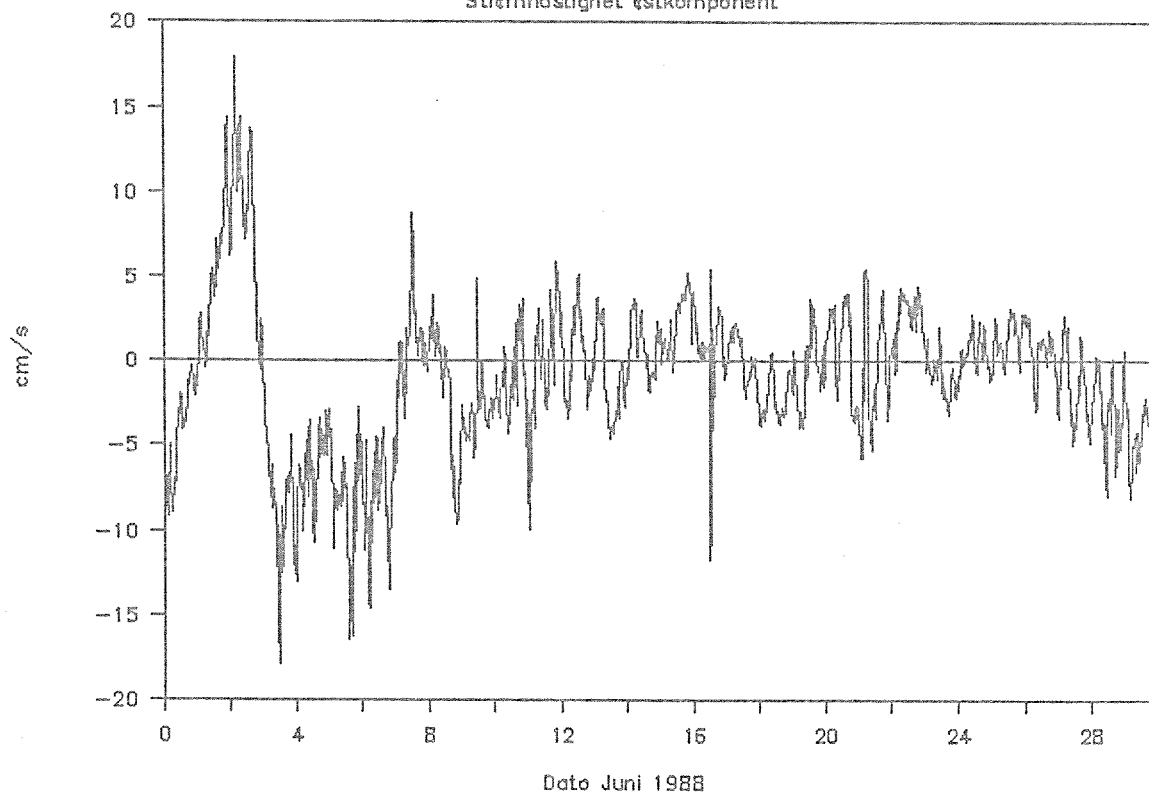
Grisebådarna 20 m.

Strømhastighet nordkomponent



Grisebådarna 20 m.

Strømhastighet østkomponent

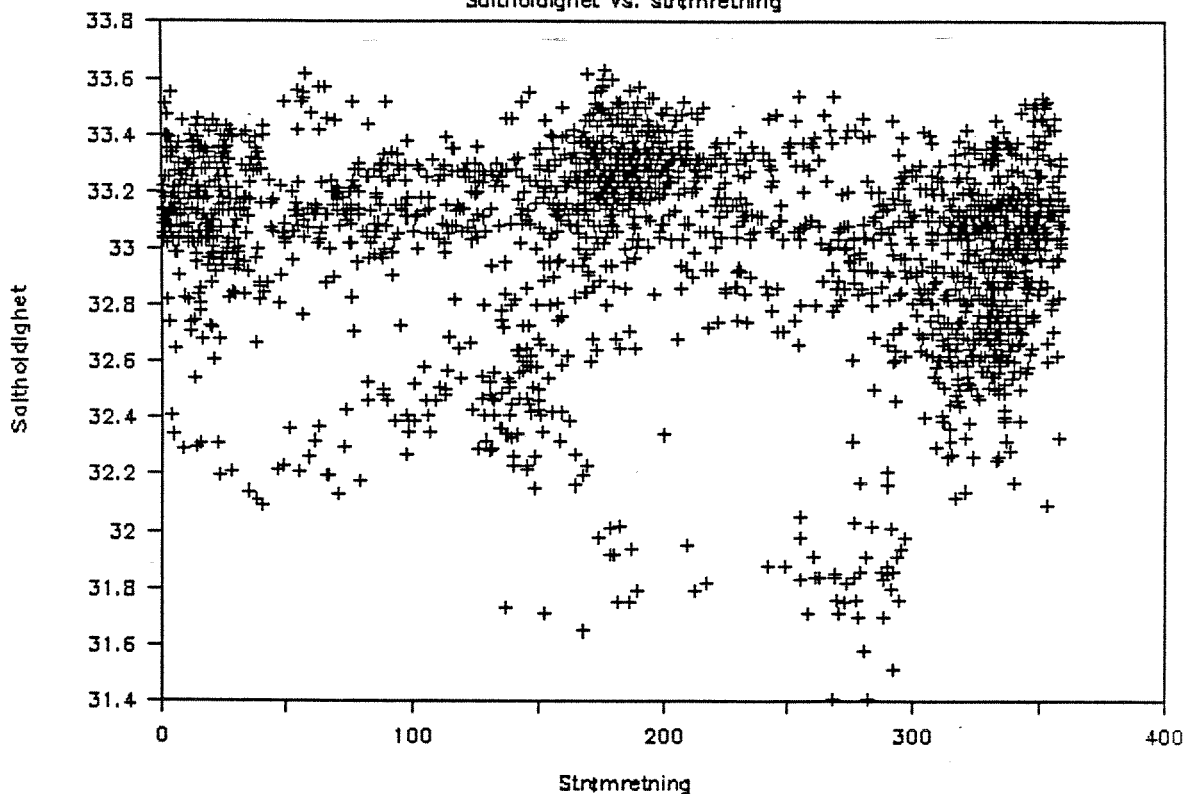


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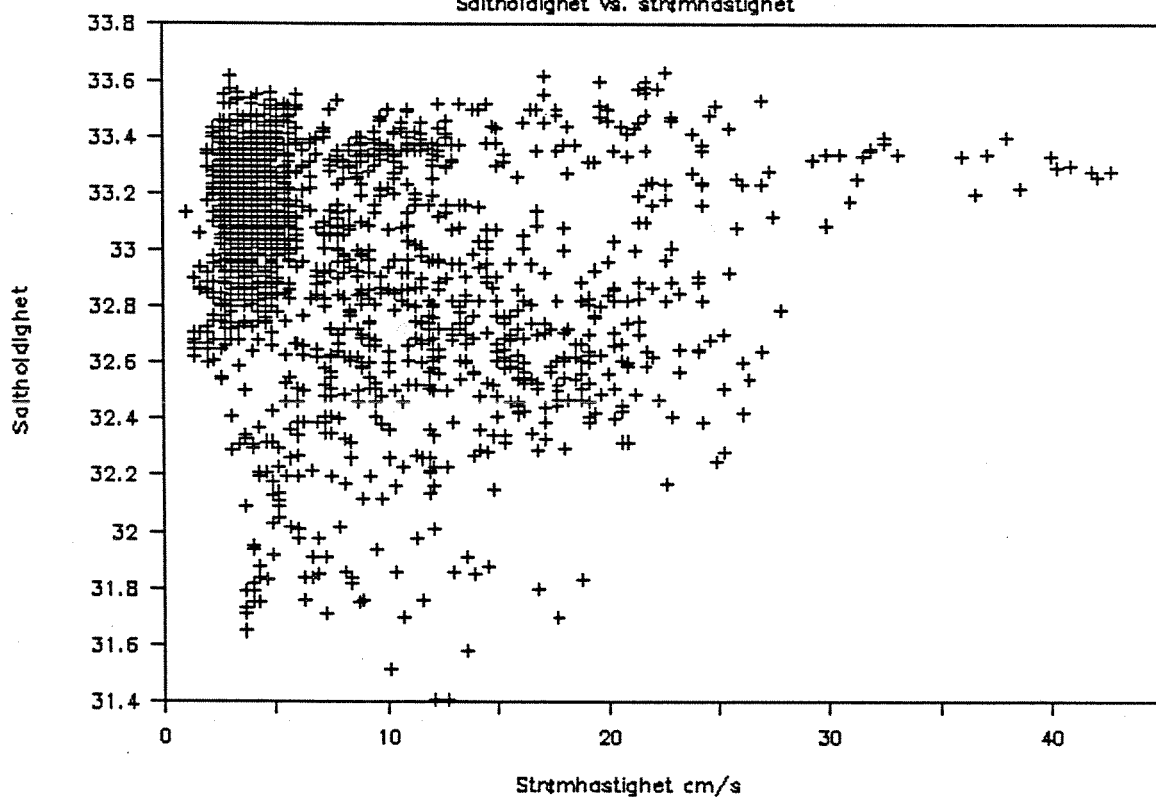
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Saltholdighet vs. strömretning



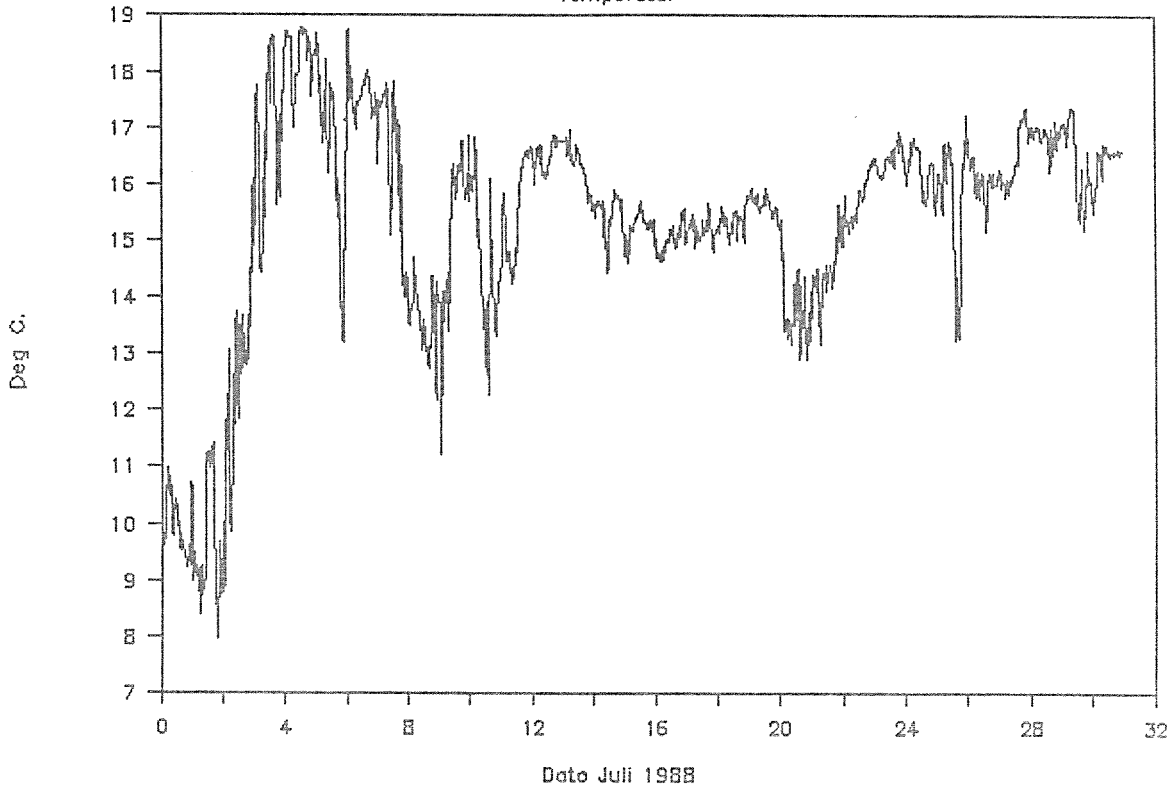
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Saltholdighet vs. strømhastighet

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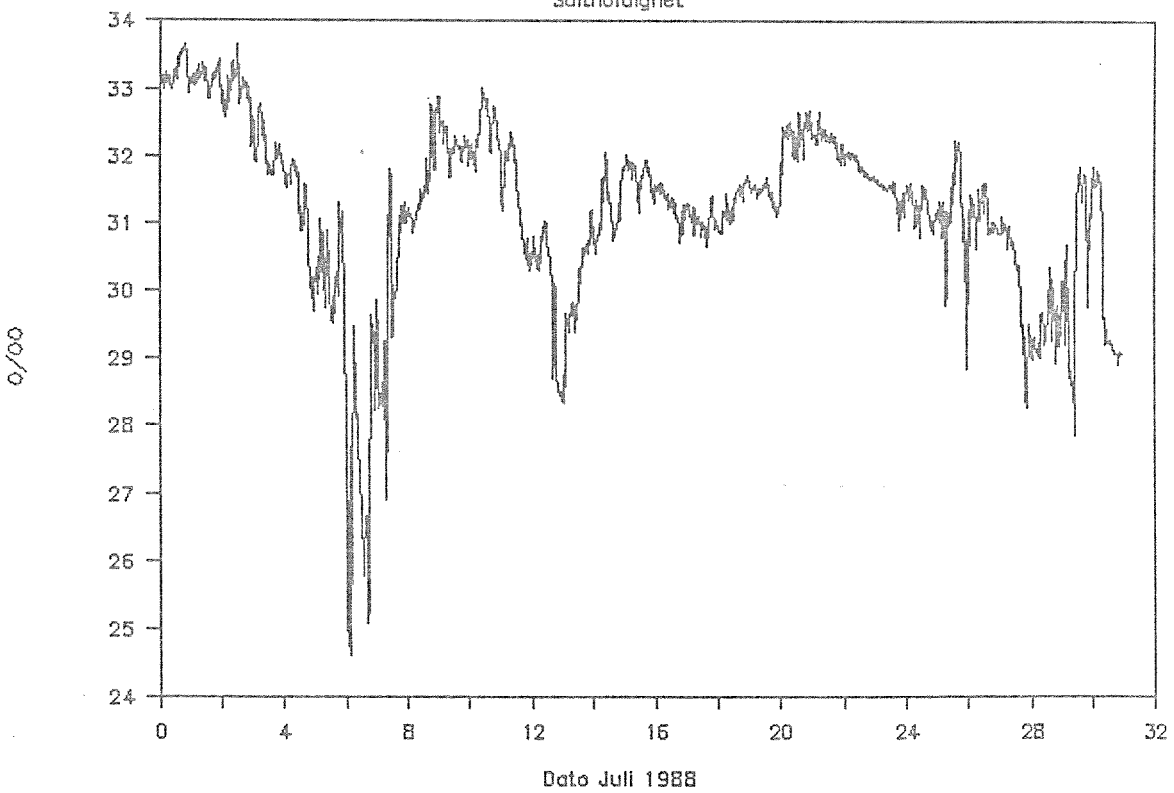
Grisebådarna 20 m.

Temperatur



Grisebådarna 20 m.

Saltholdighet

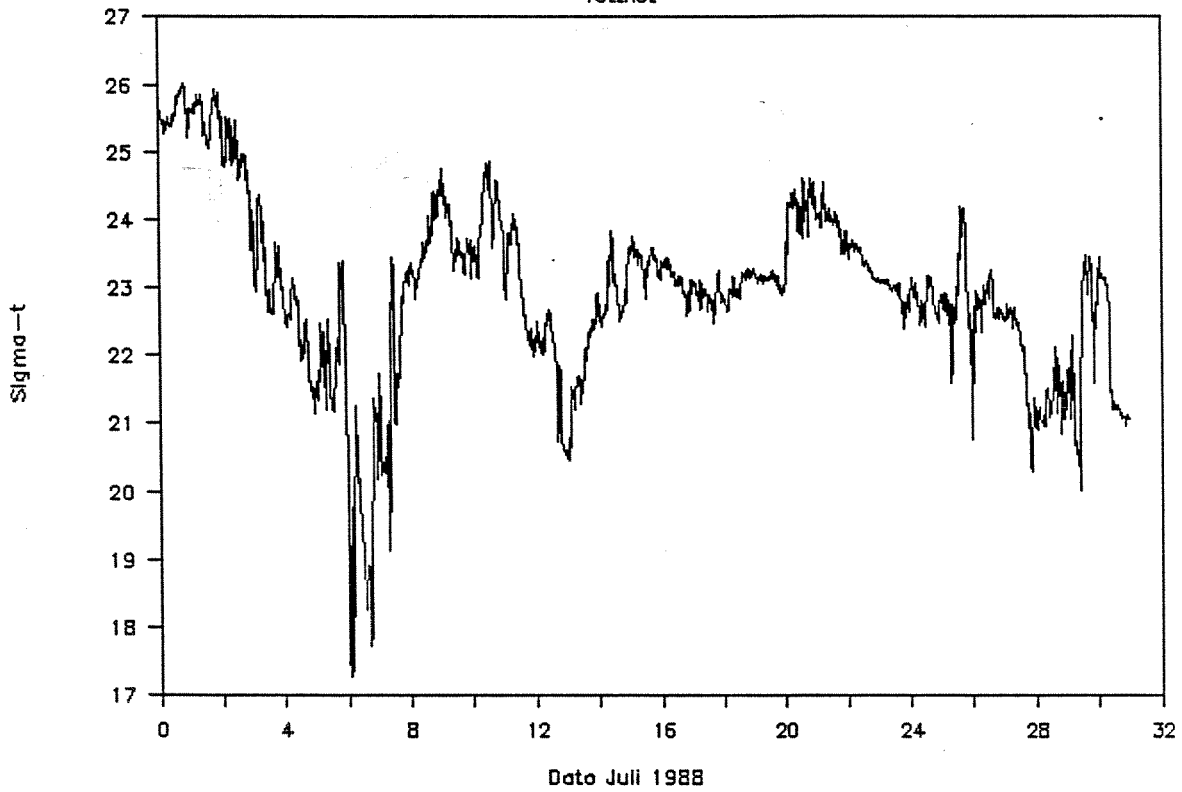


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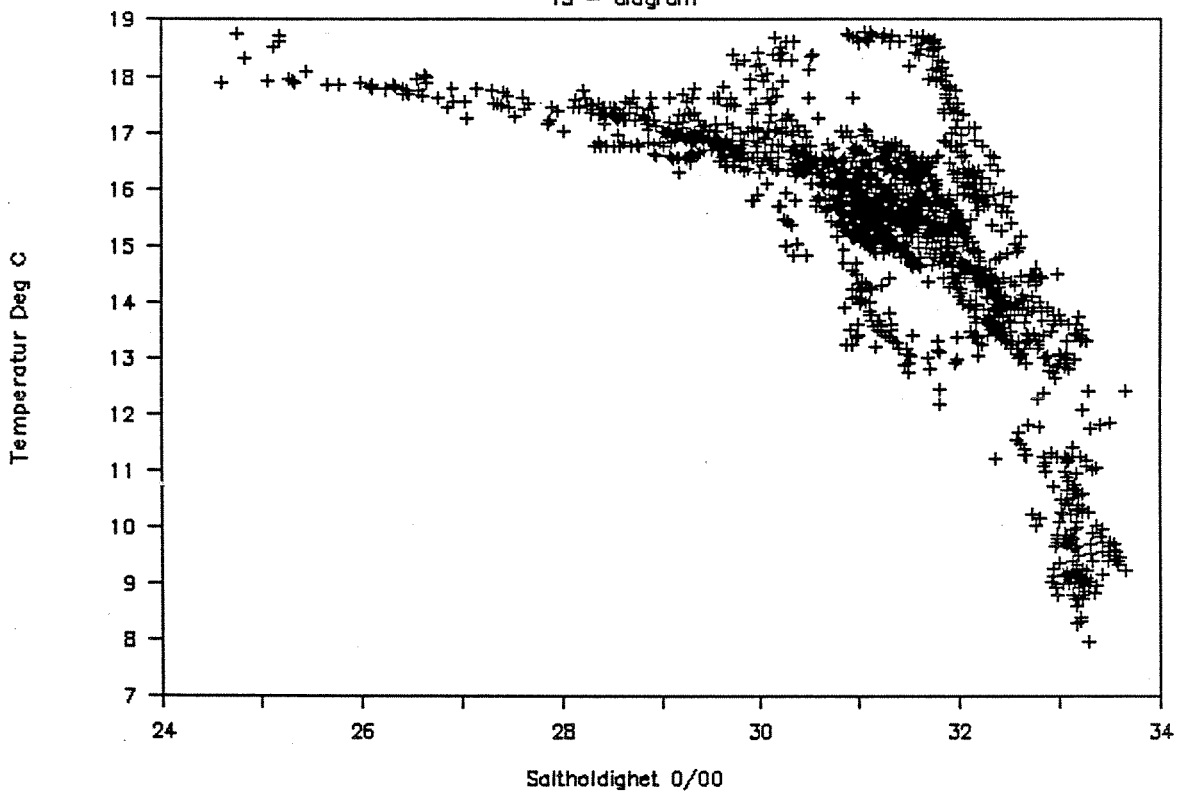
Grisebådarna 20 m.

Tetthet



Grisebådarna 20 m. Juli 1988

TS - diagram

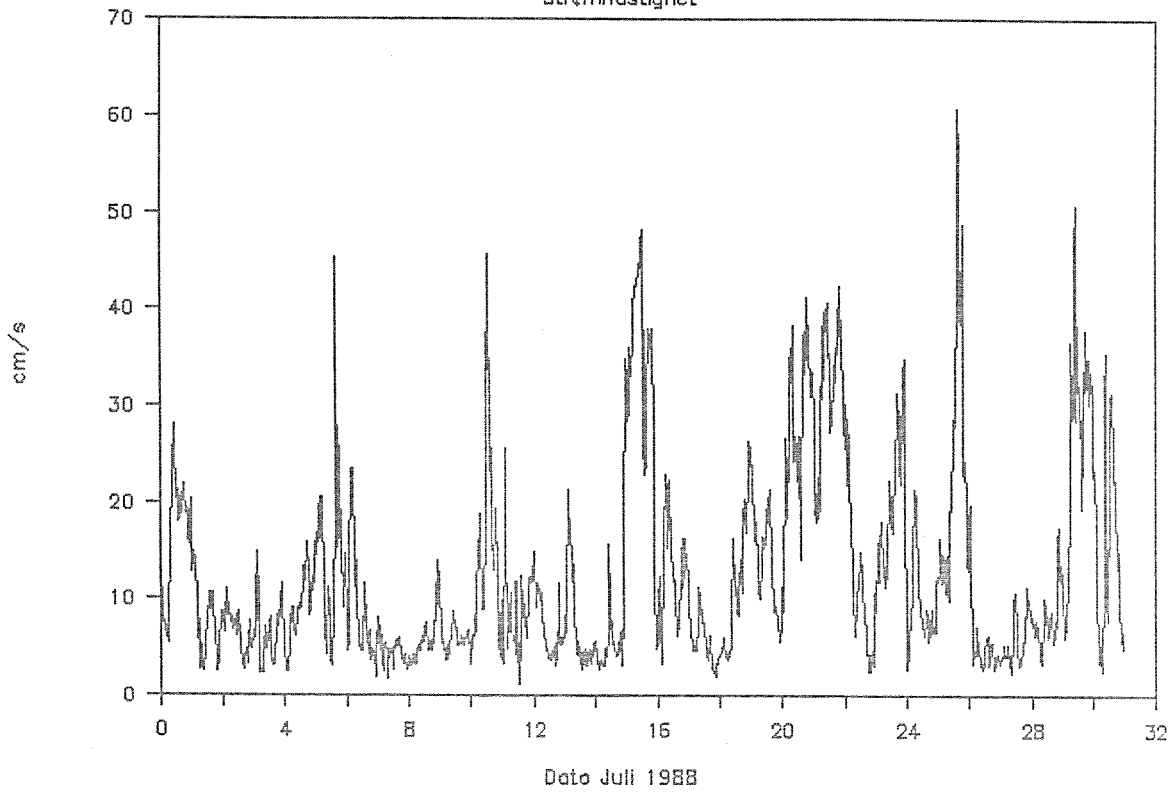


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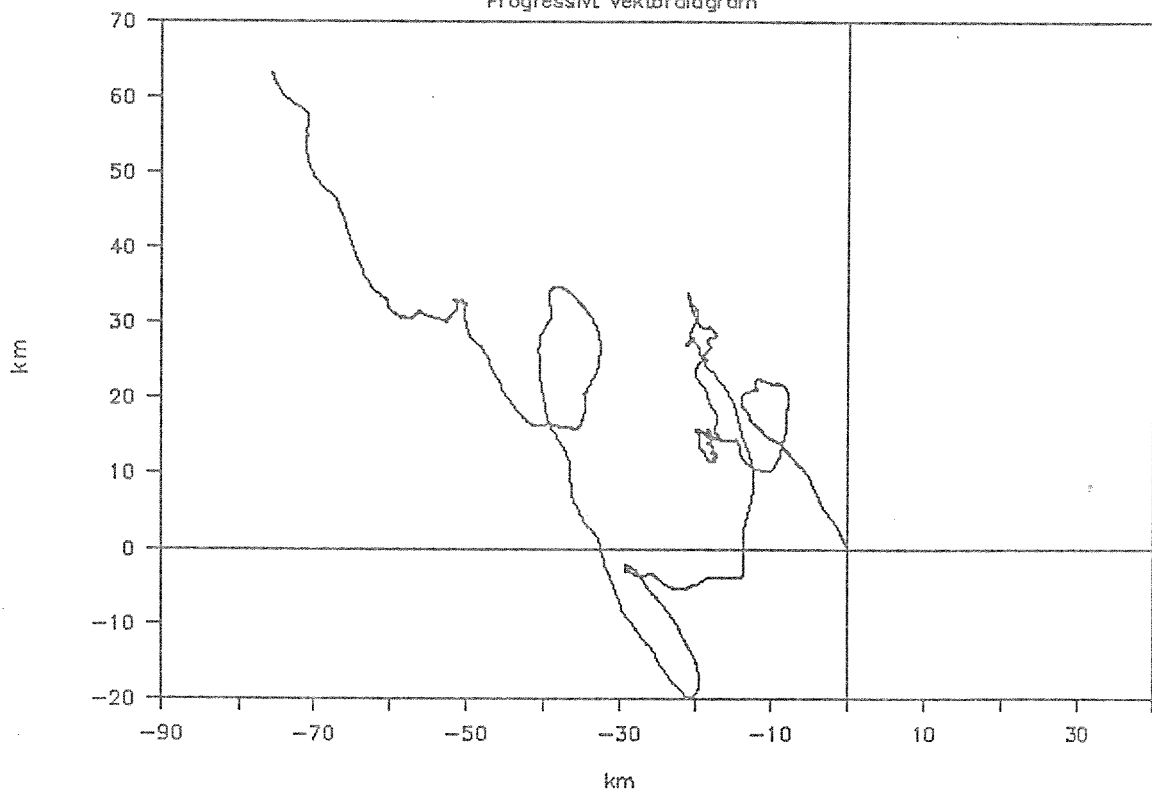
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Strømhastighet



Grisebådarna 20 m. Juli 1988

Progressivt vektordiagram

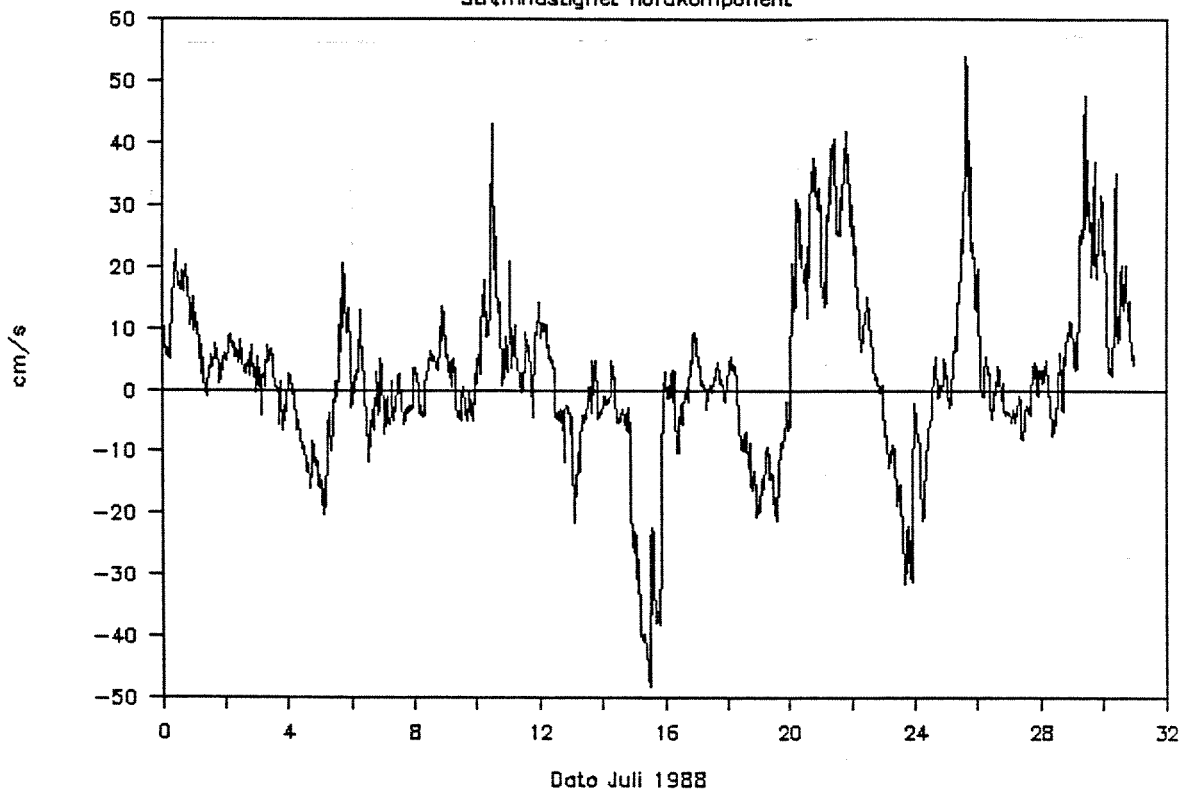


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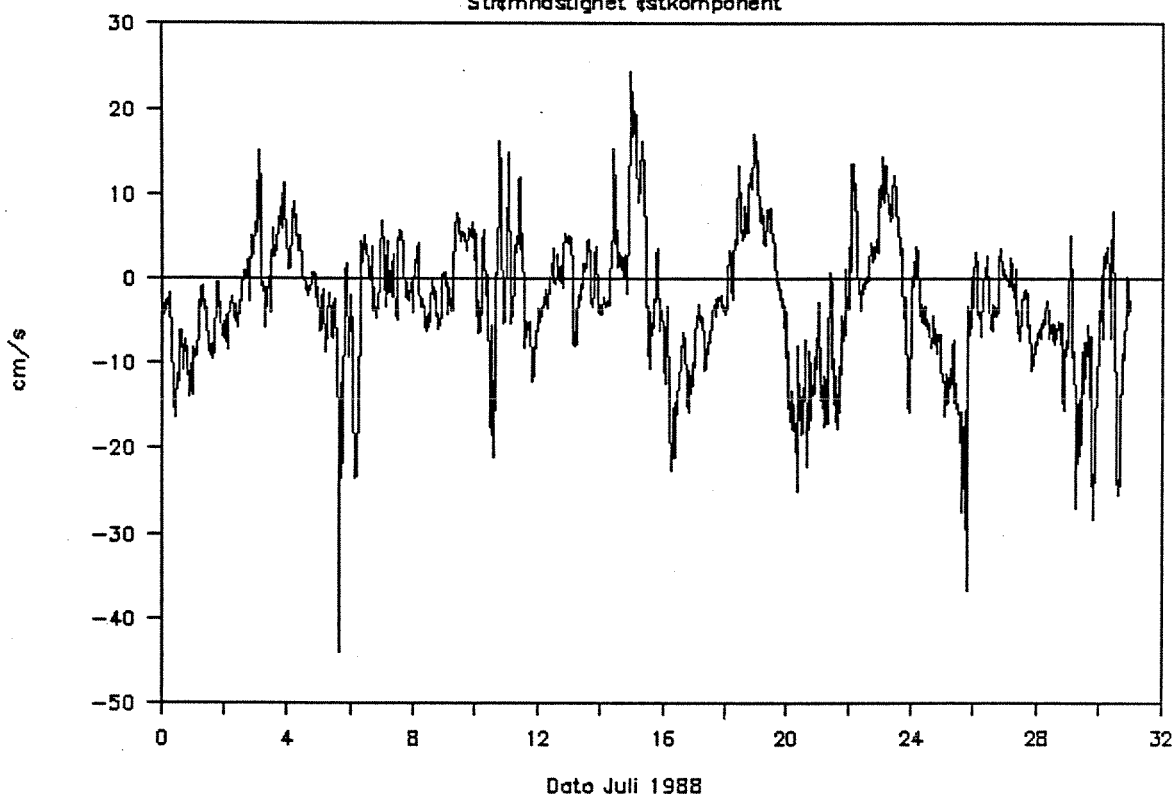
Grisebådarna 20 m.

Strømhastighet nordkomponent



Grisebådarna 20 m.

Strømhastighet østkomponent

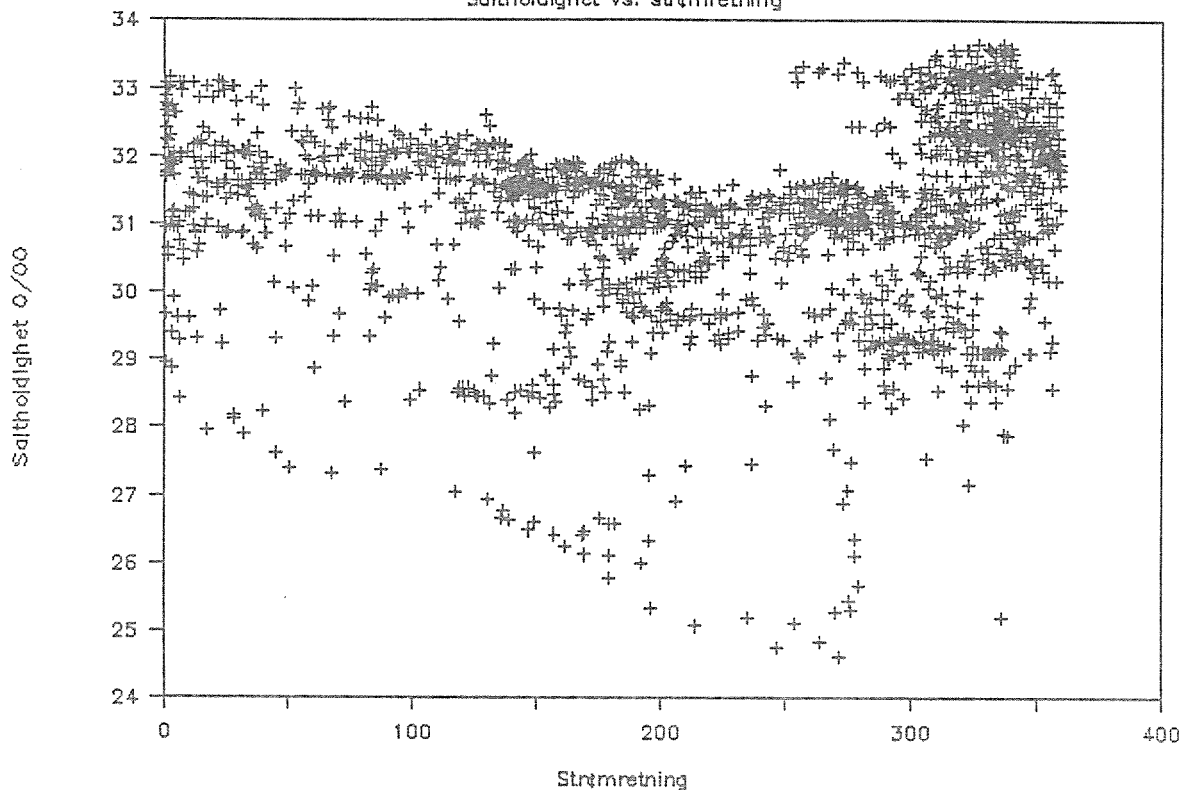


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and Services A/S

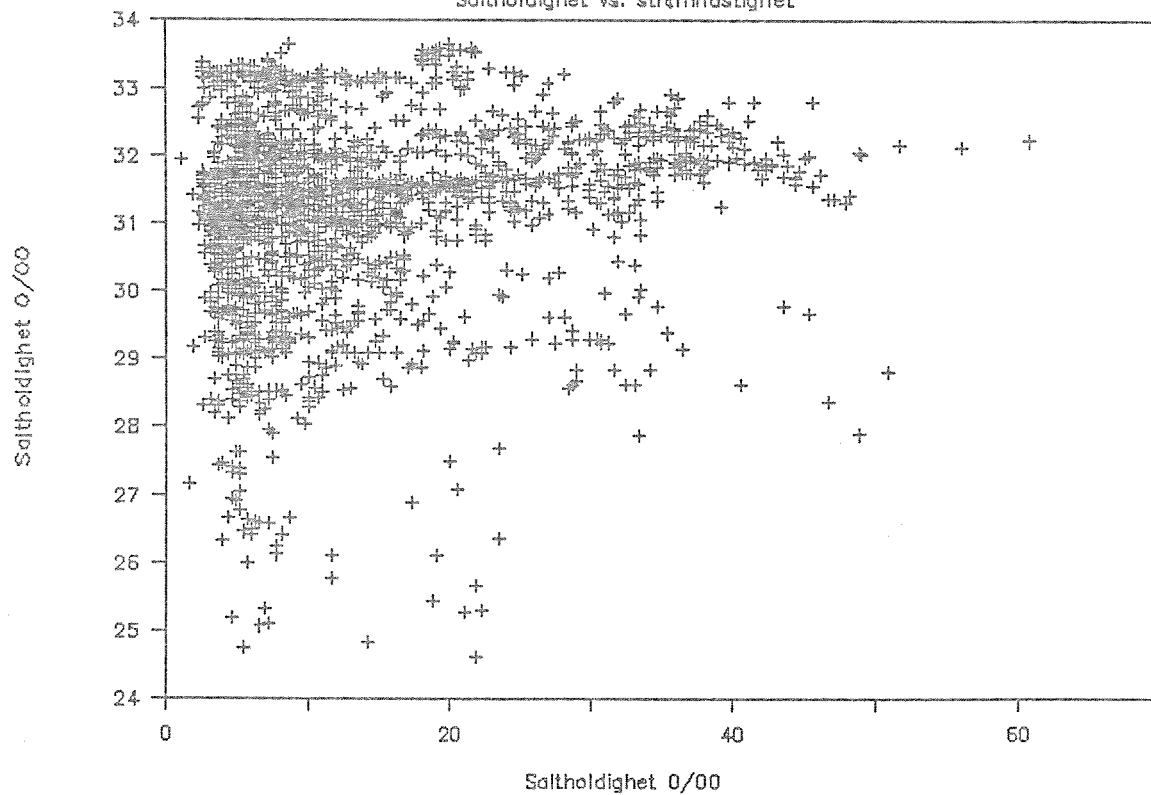
Grisebådarna 20 m. Juli 1988

Saltholdighet vs. strømretning



Grisebådarna 20 m. Juli 1988

Saltholdighet vs. strømshastighet

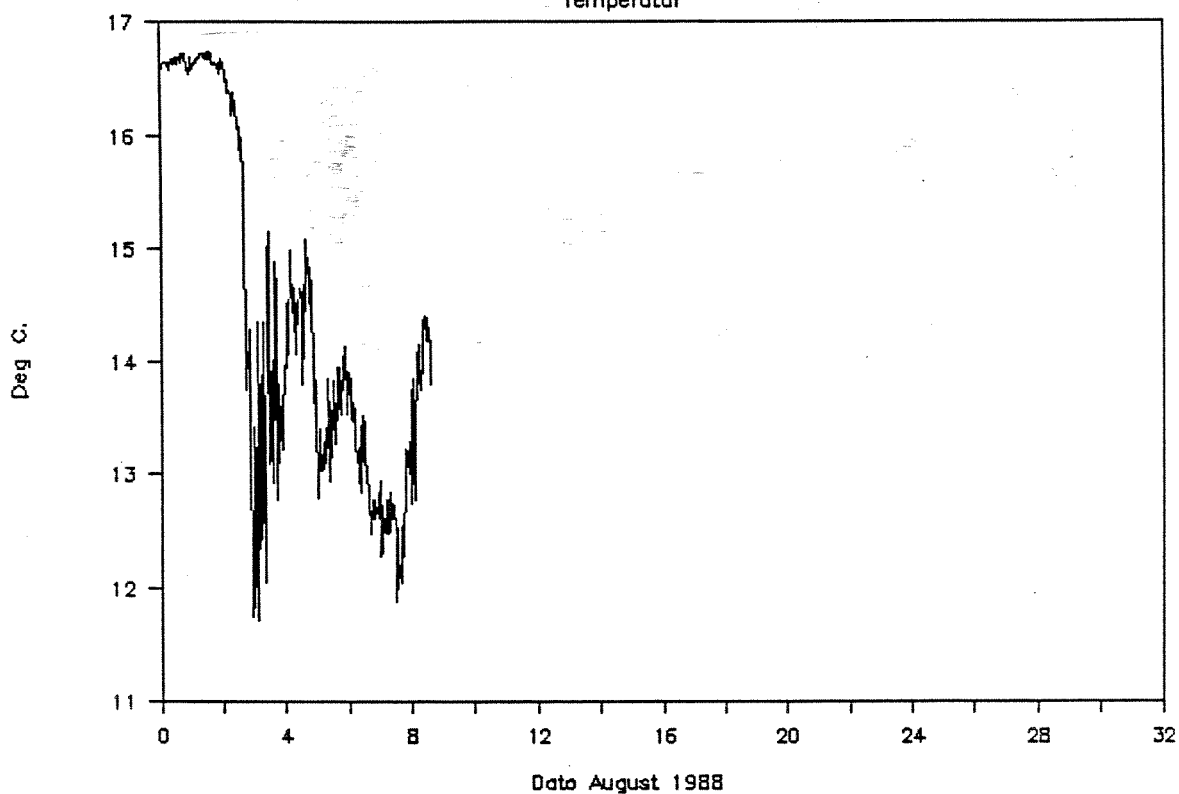


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and Services A/S

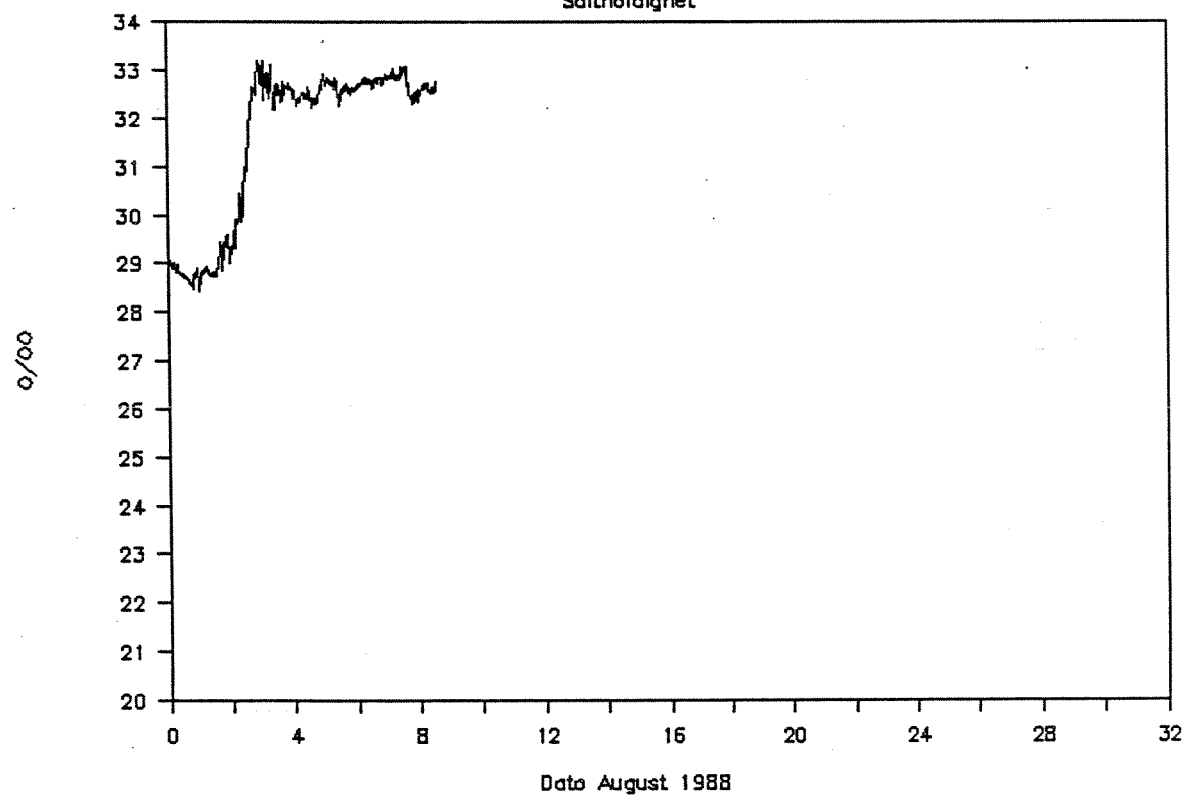
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Temperatur



Grisebådarna 20 m.

Saltholdighet

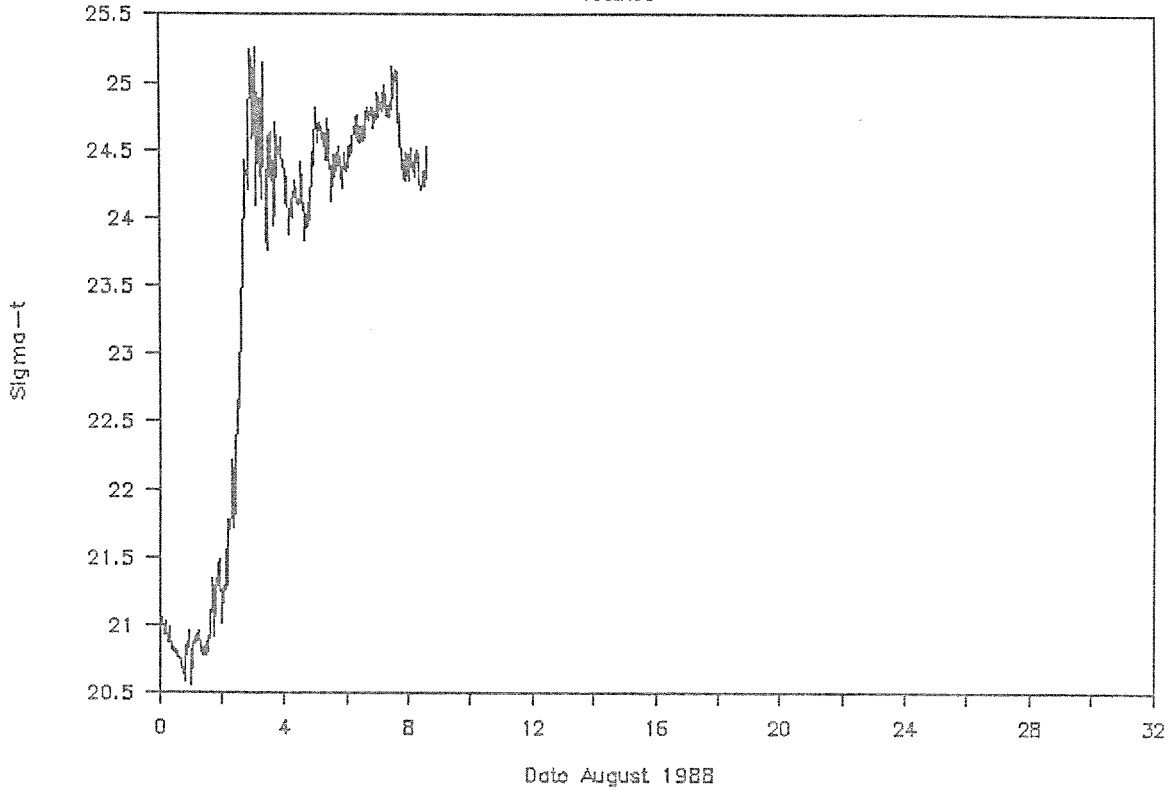


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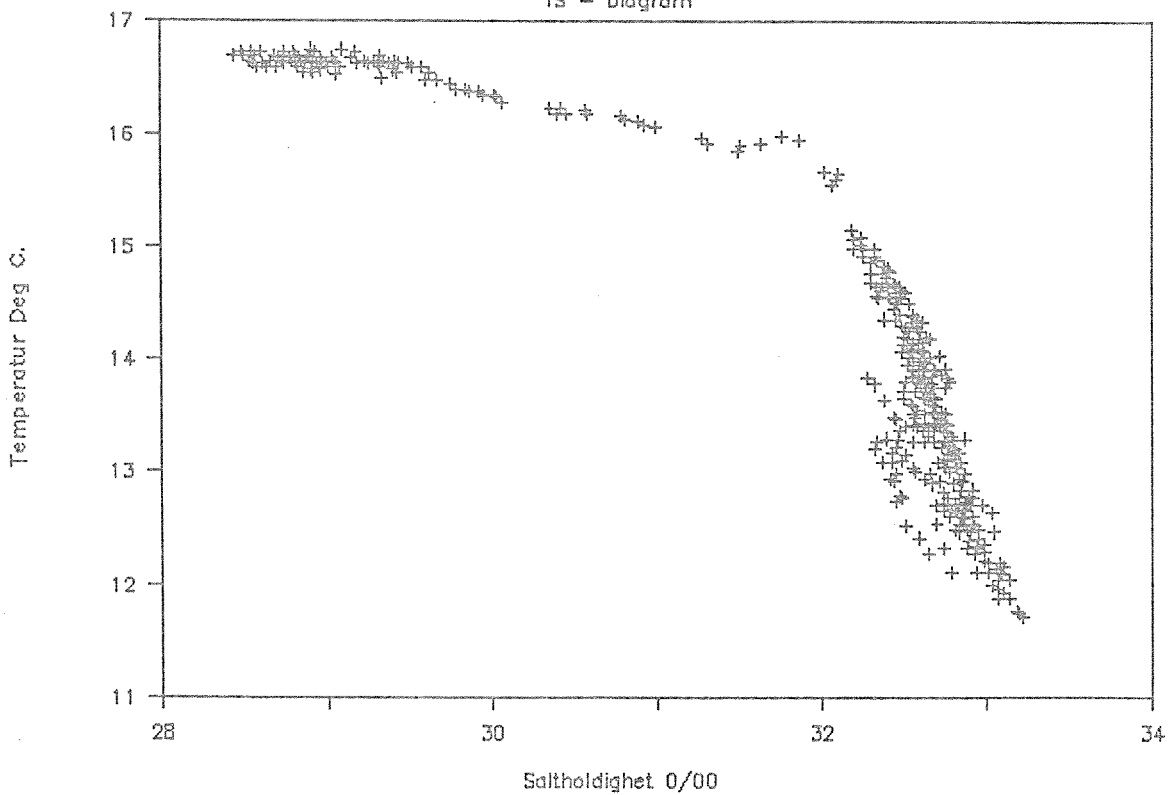
Grisebådarna 20 m.

Tetthet



Grisebådarna 20 m. August 1988

TS - Diagram

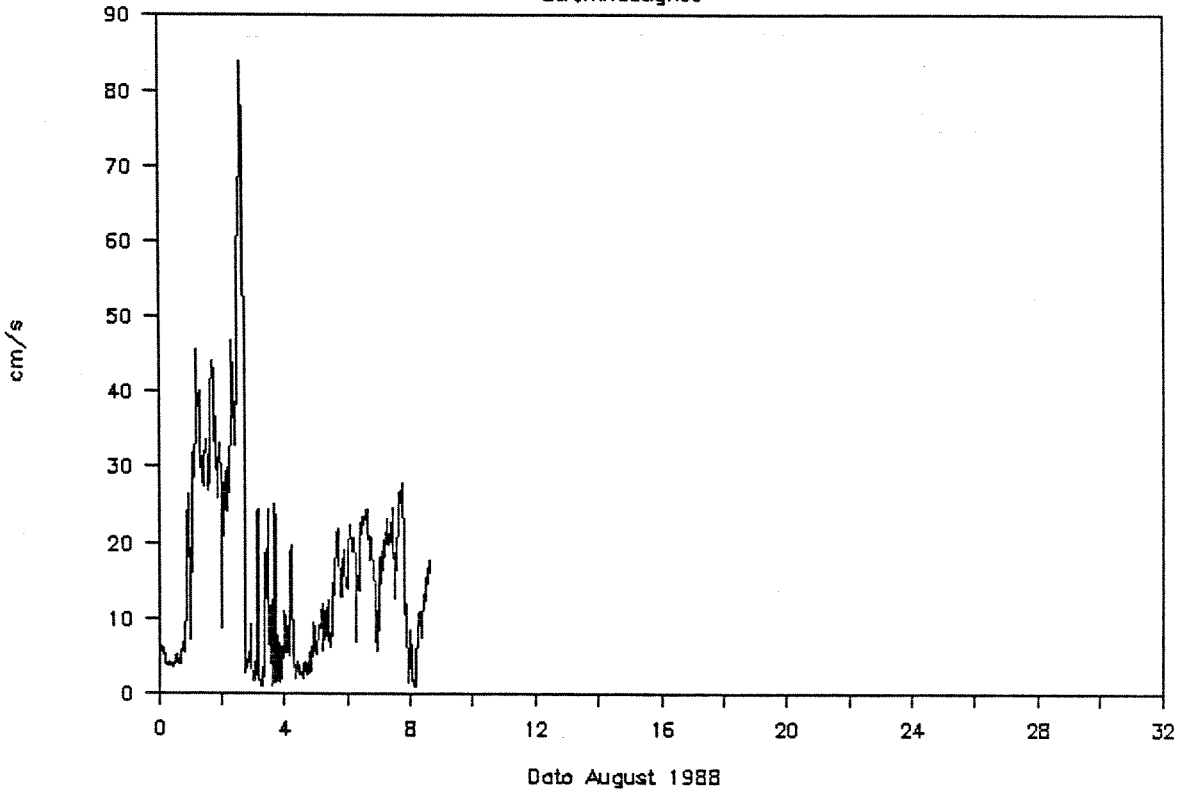


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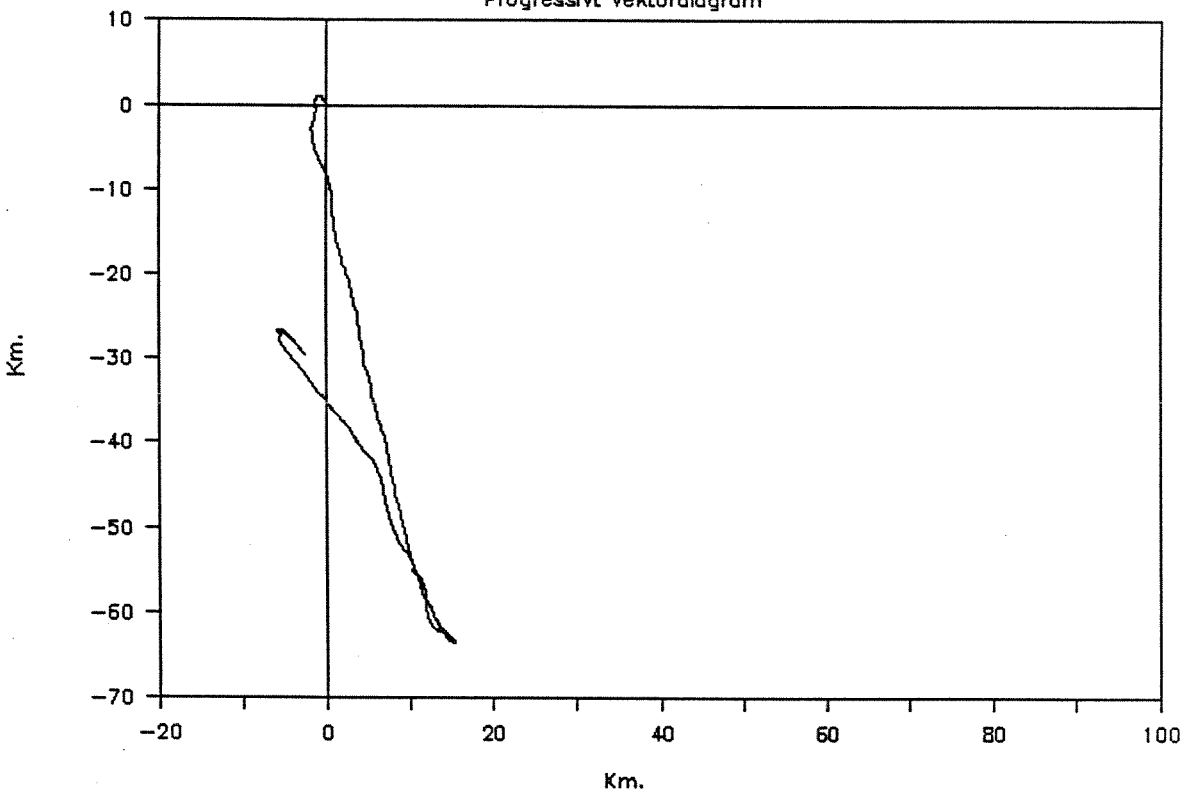
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Strømhastighet



Grisebådarna 20 m. August 1988

Progressivt Vektordiagram

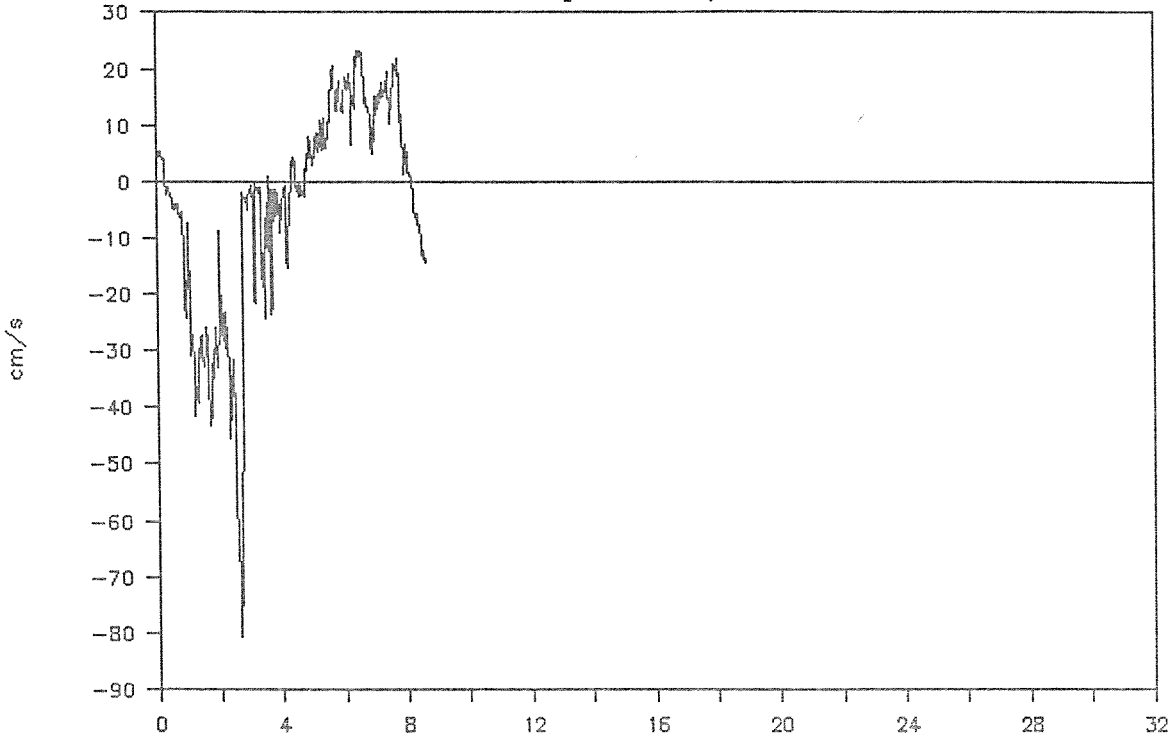


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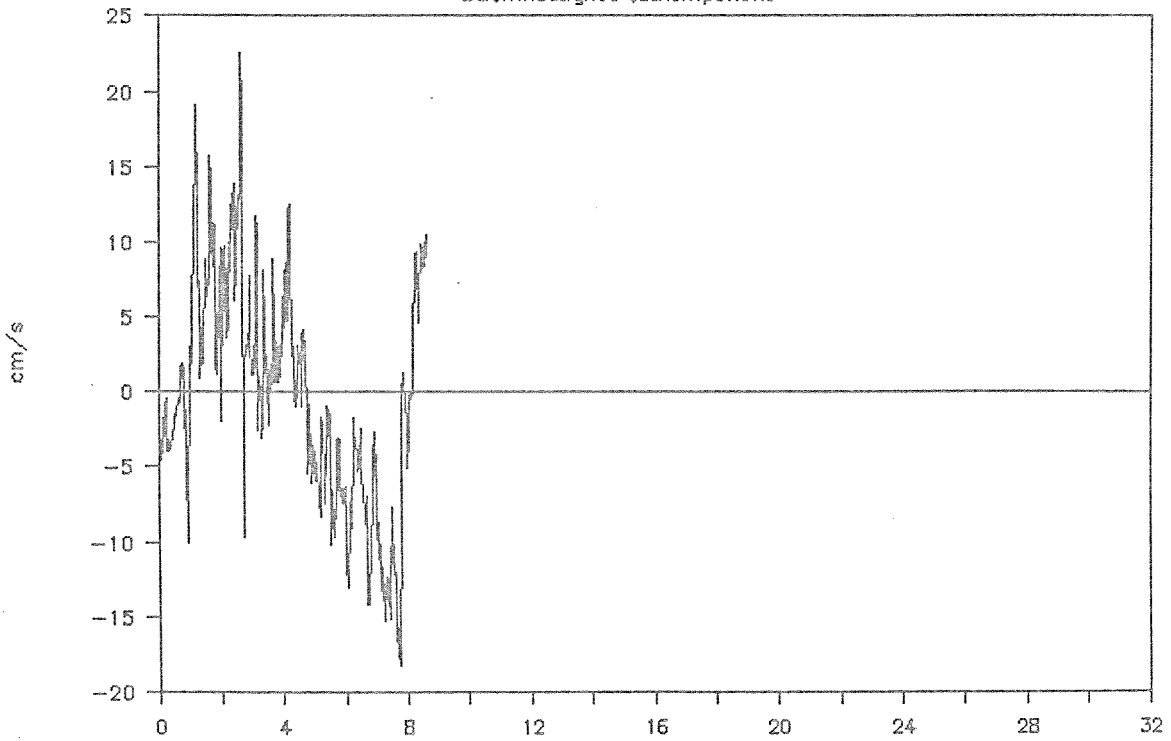
Grisebådarna 20 m.

Strømhastighet nordkomponent



Grisebådarna 20 m.

Strømhastighet østkomponent

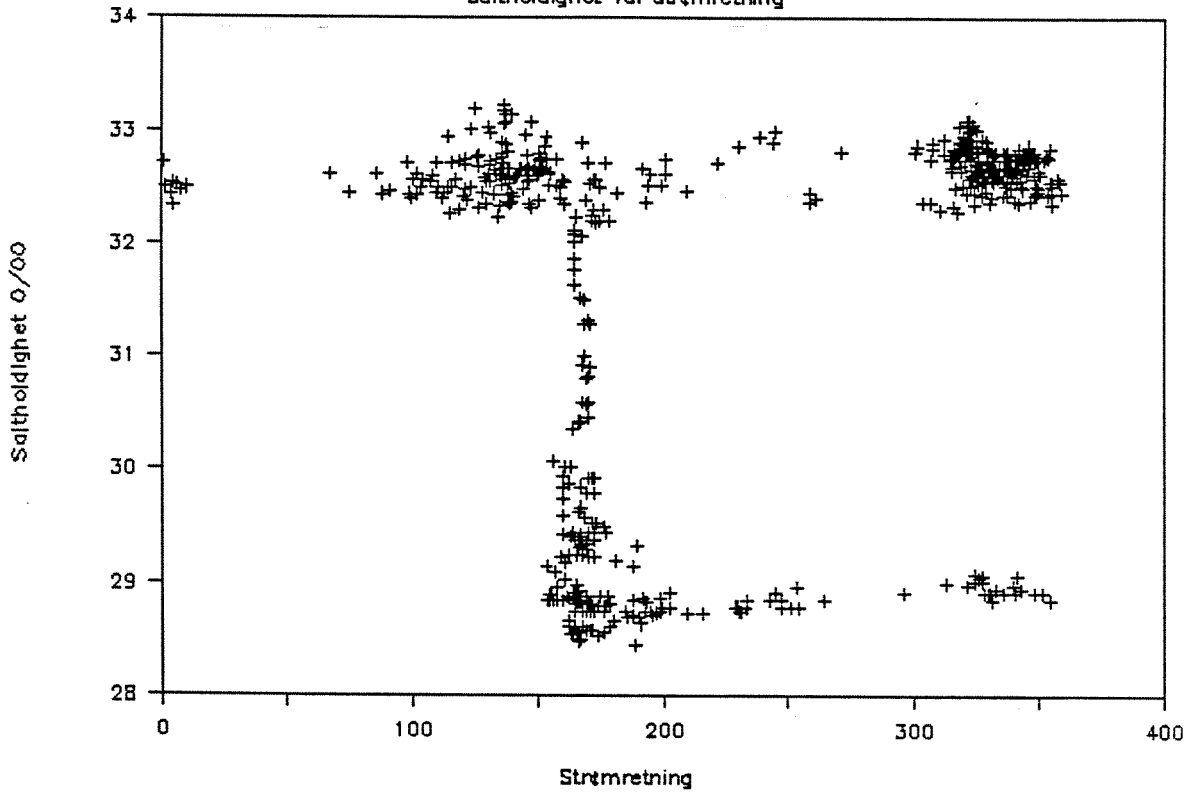


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and Services A/S

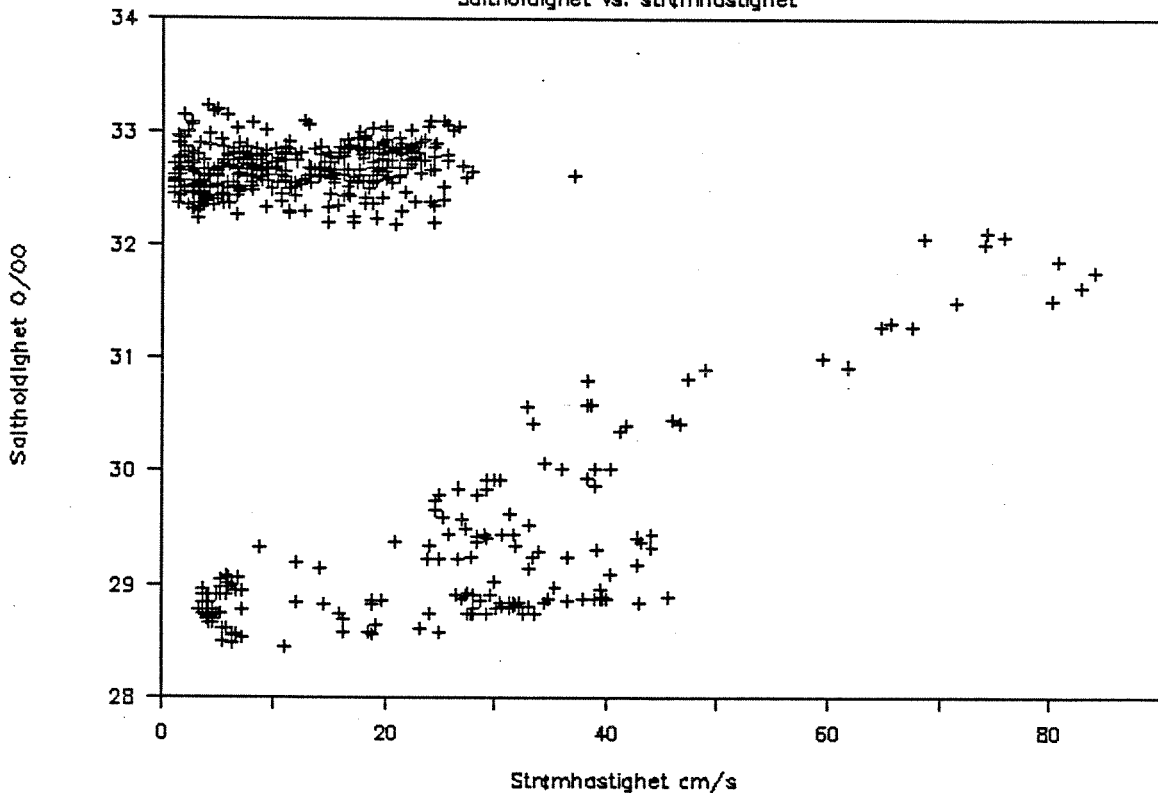
Grisebådarna 20 m. August 1988

Saltholdighet vs. strömretning



Grisebådarna 20 m. August 1988

Saltholdighet vs. strømhastighet

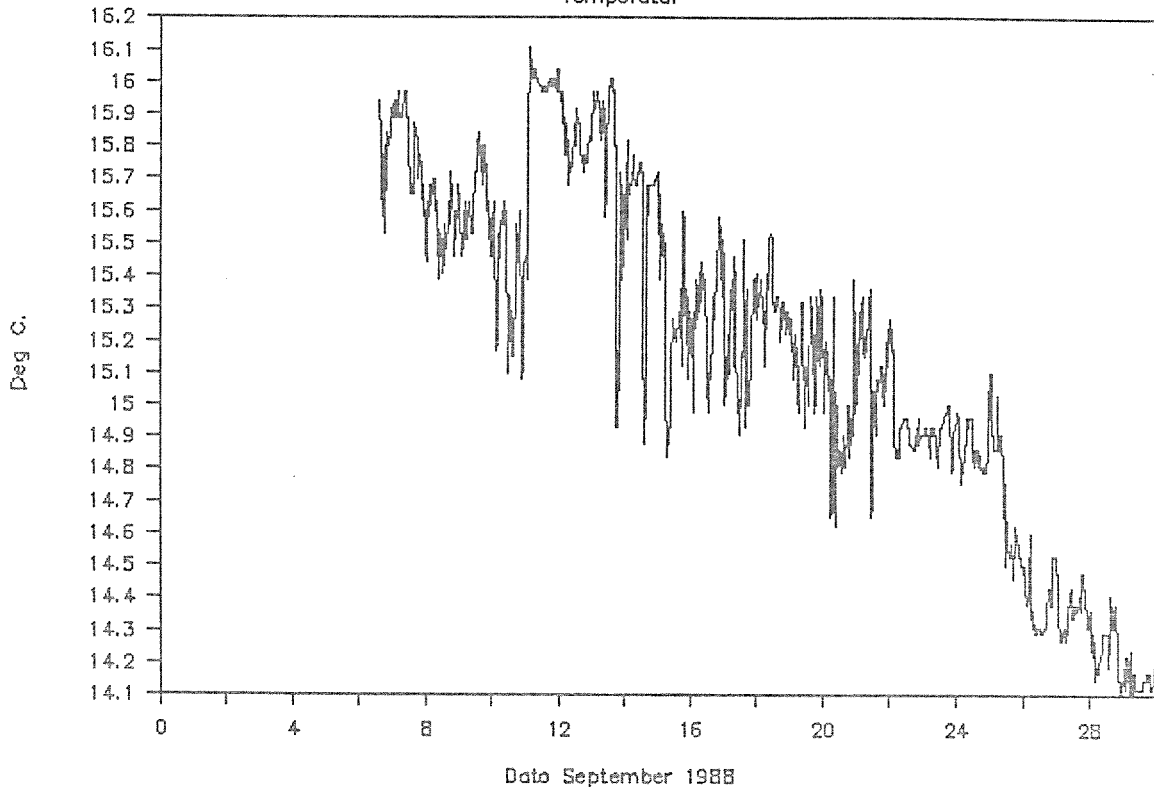


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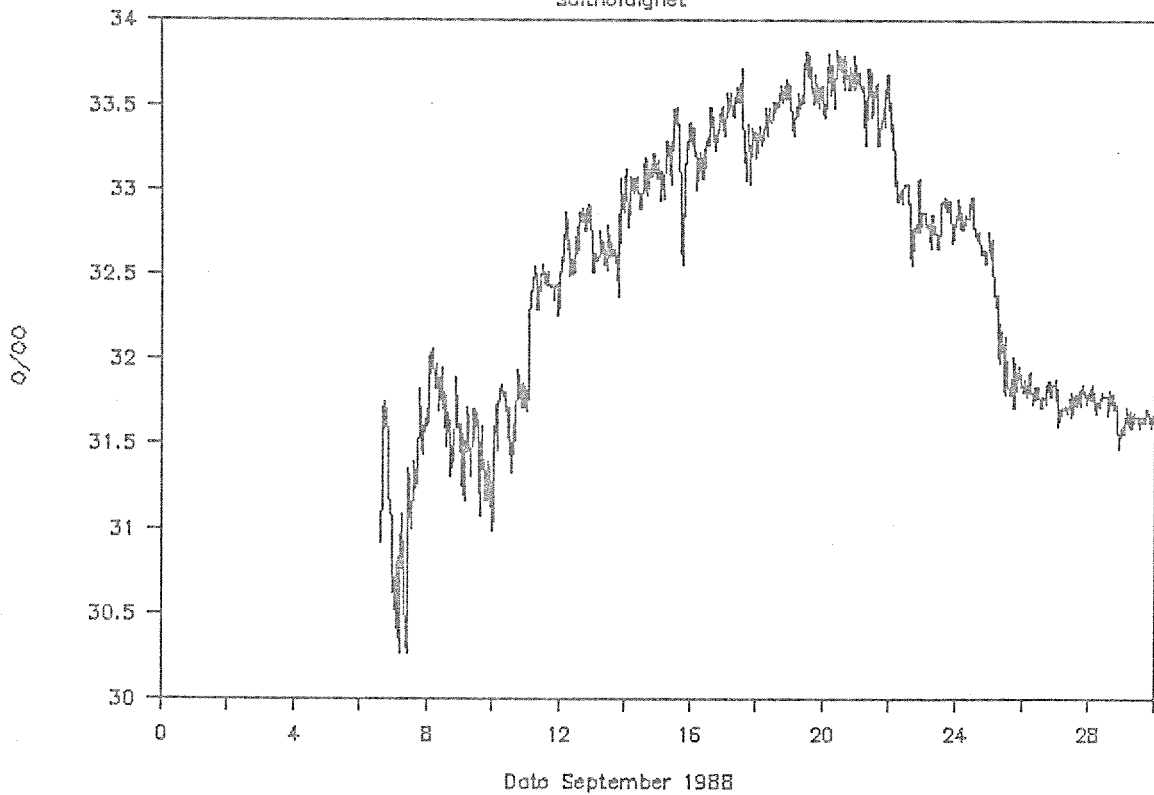
Grisebådarna 20 m.

Temperatur



Grisebådarna 20 m.

Saltholdighet

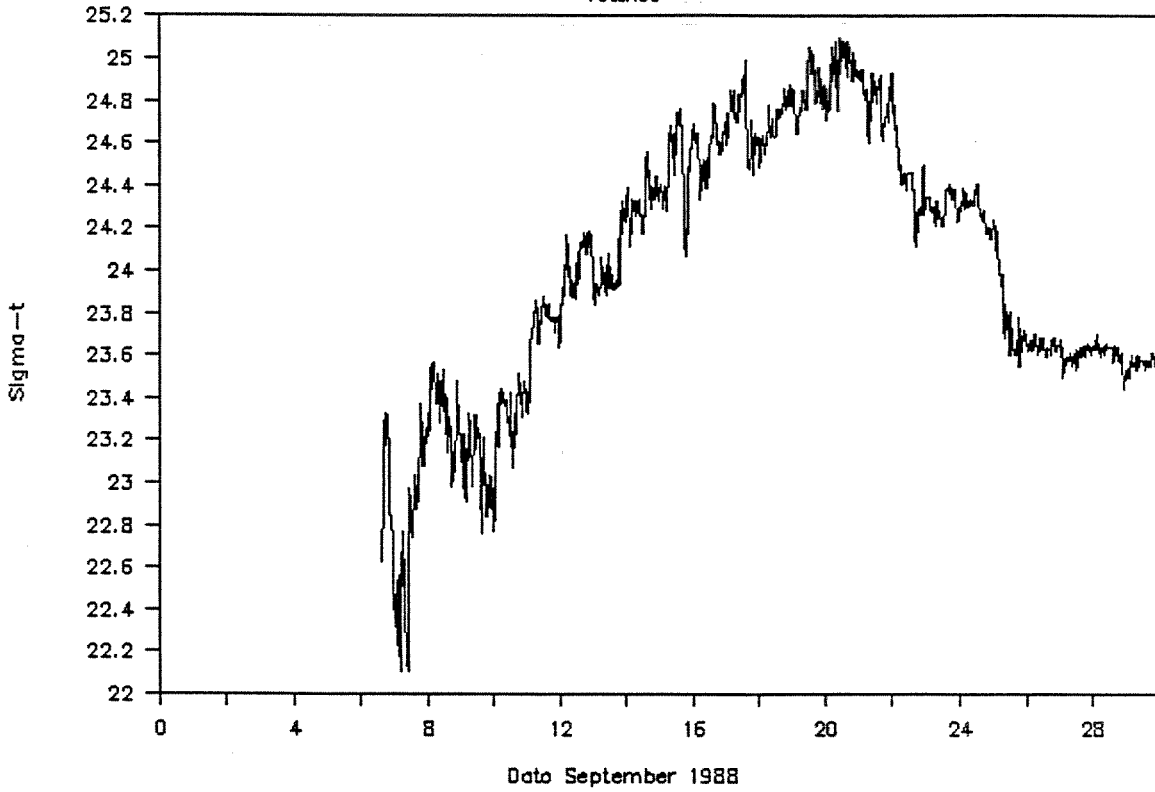


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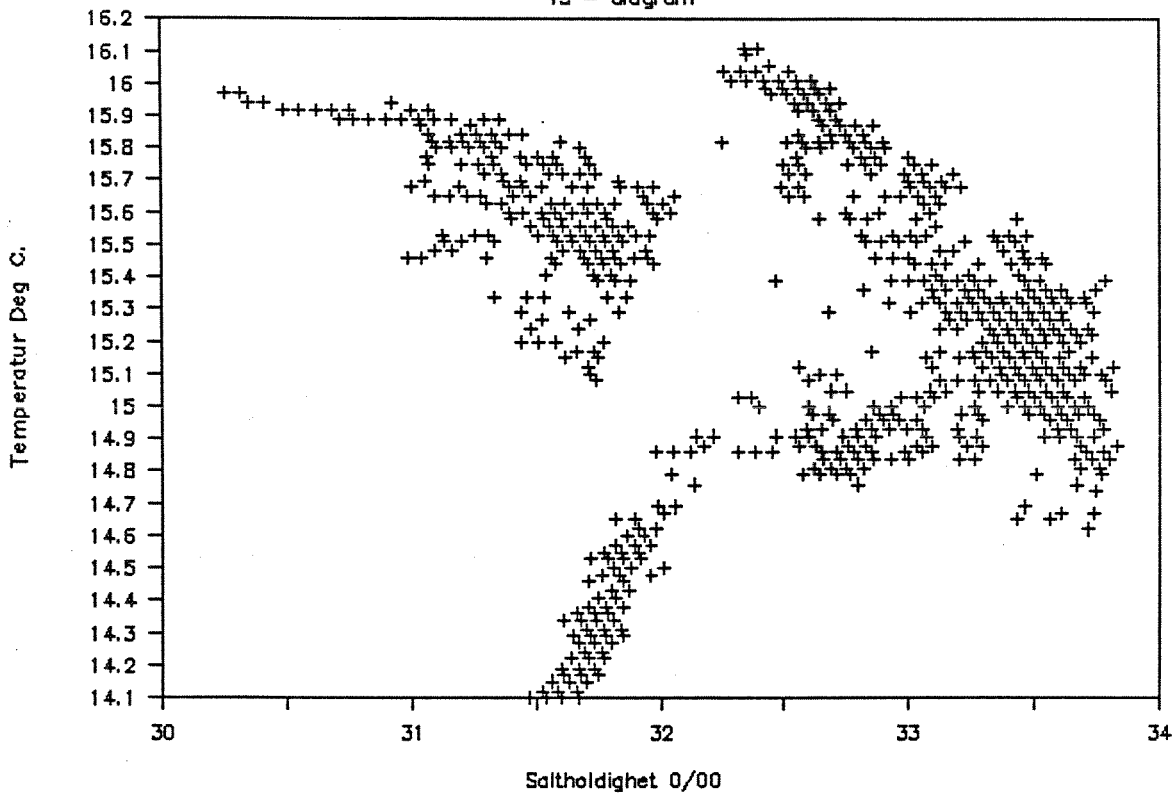
Grisebådarna 20 m.

Tetthet



Grisebådarna 20 m. September 1988

TS - diagram

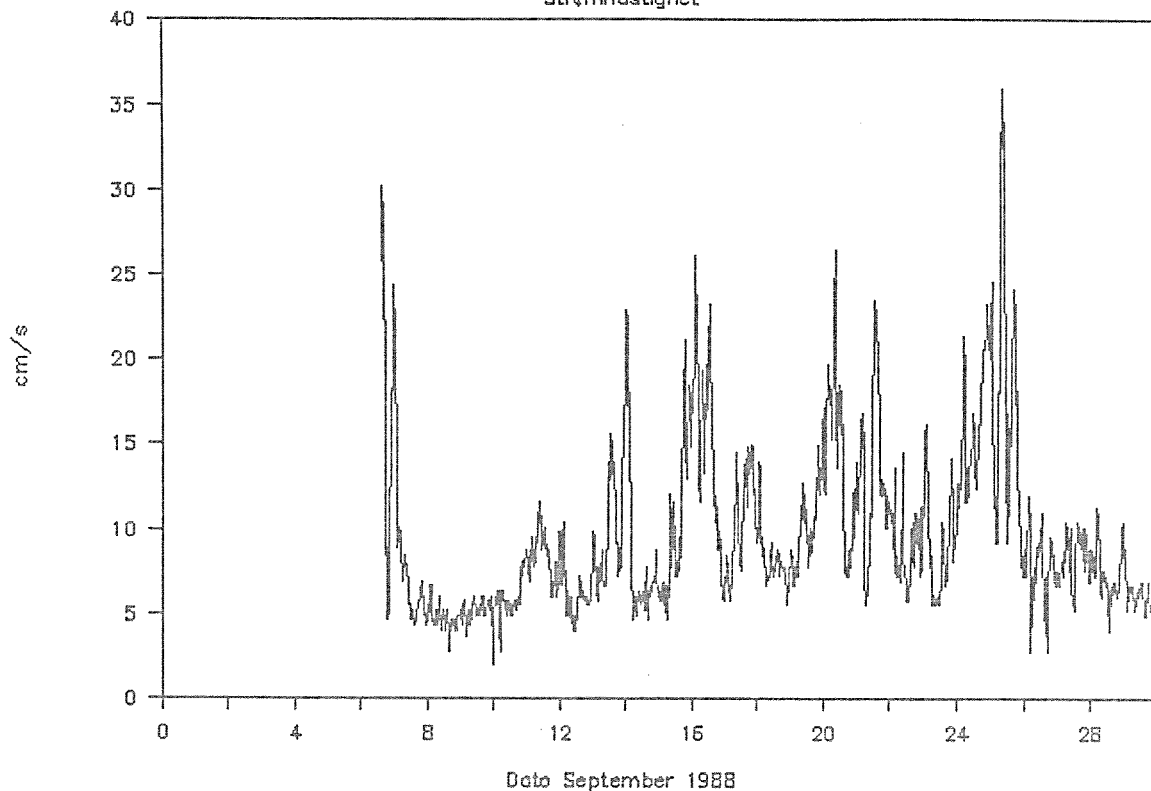


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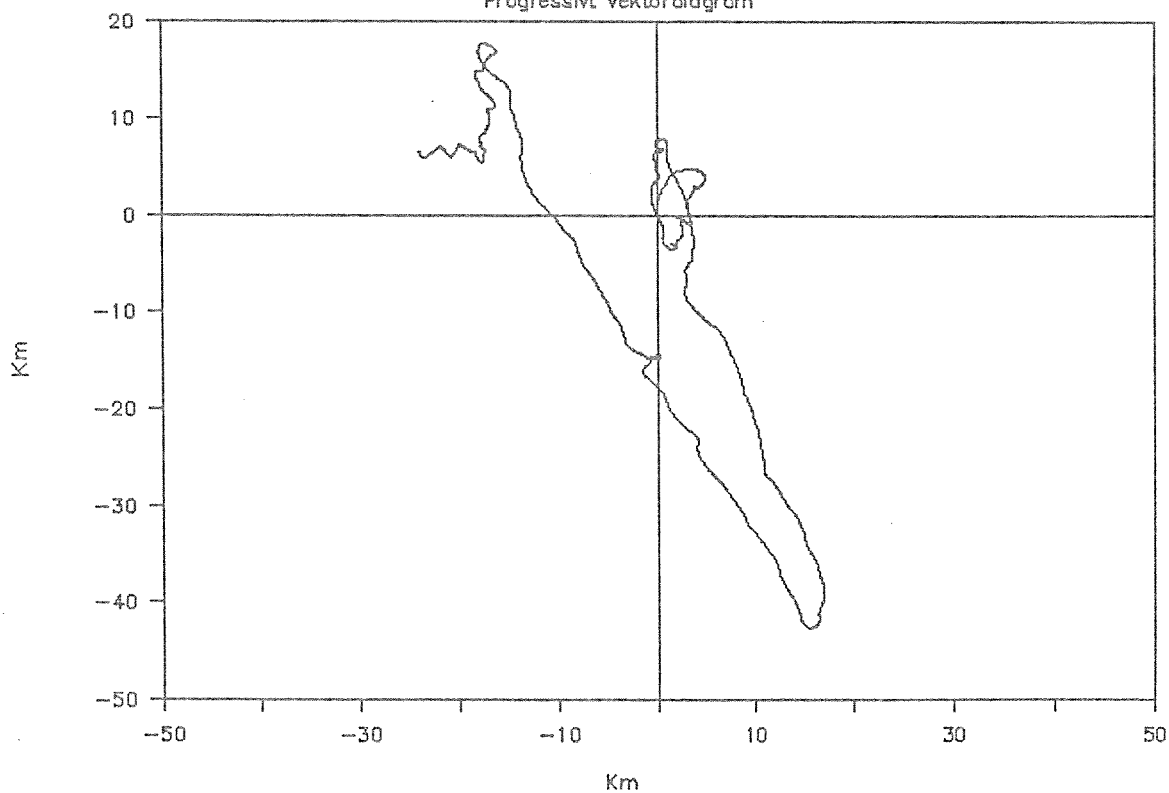
Grisebådarna 20 m.

Strømhastighet



Grisebådarna 20 m. September 1988

Progressivt vektordiagram

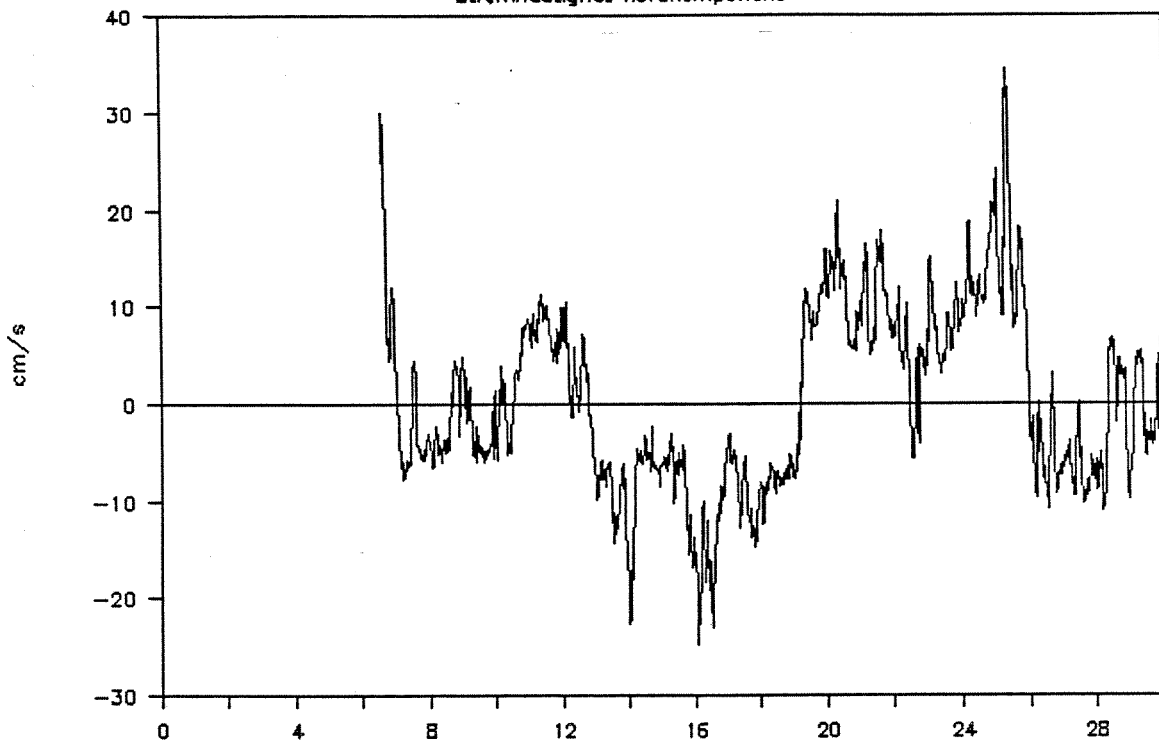


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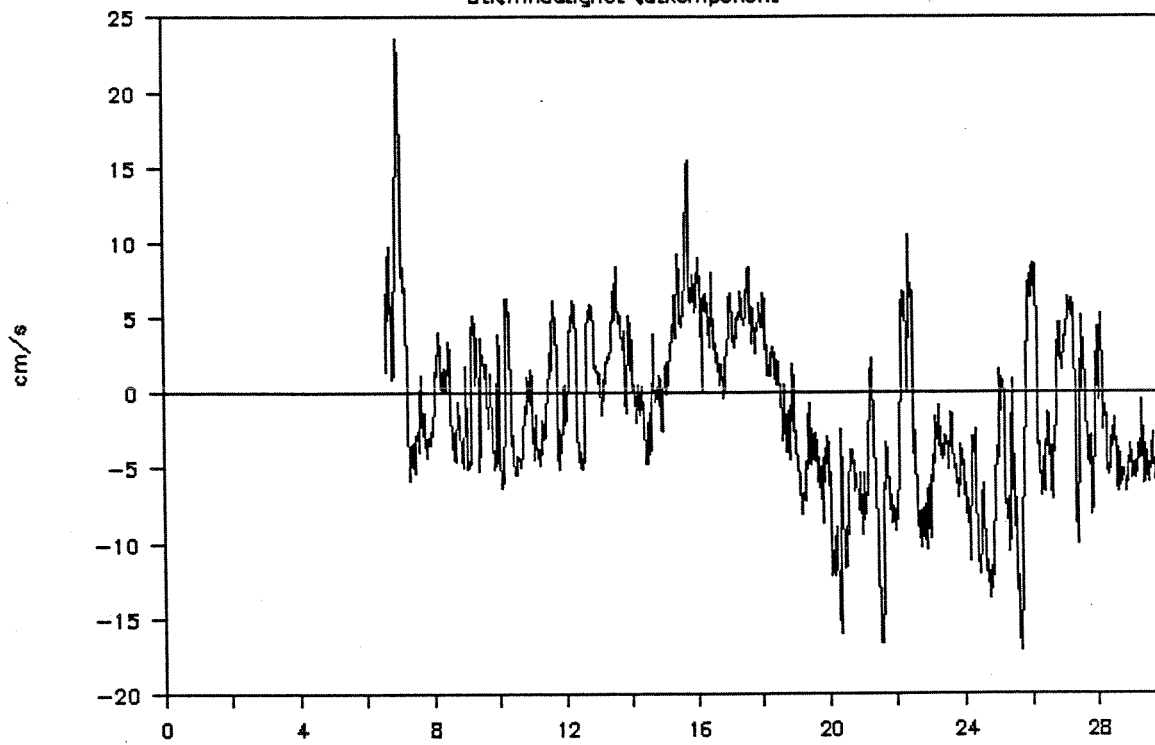
Grisebådarna 20 m.

Strømhastighet nordkomponent



Grisebådarna 20 m.

Strømhastighet østkomponent

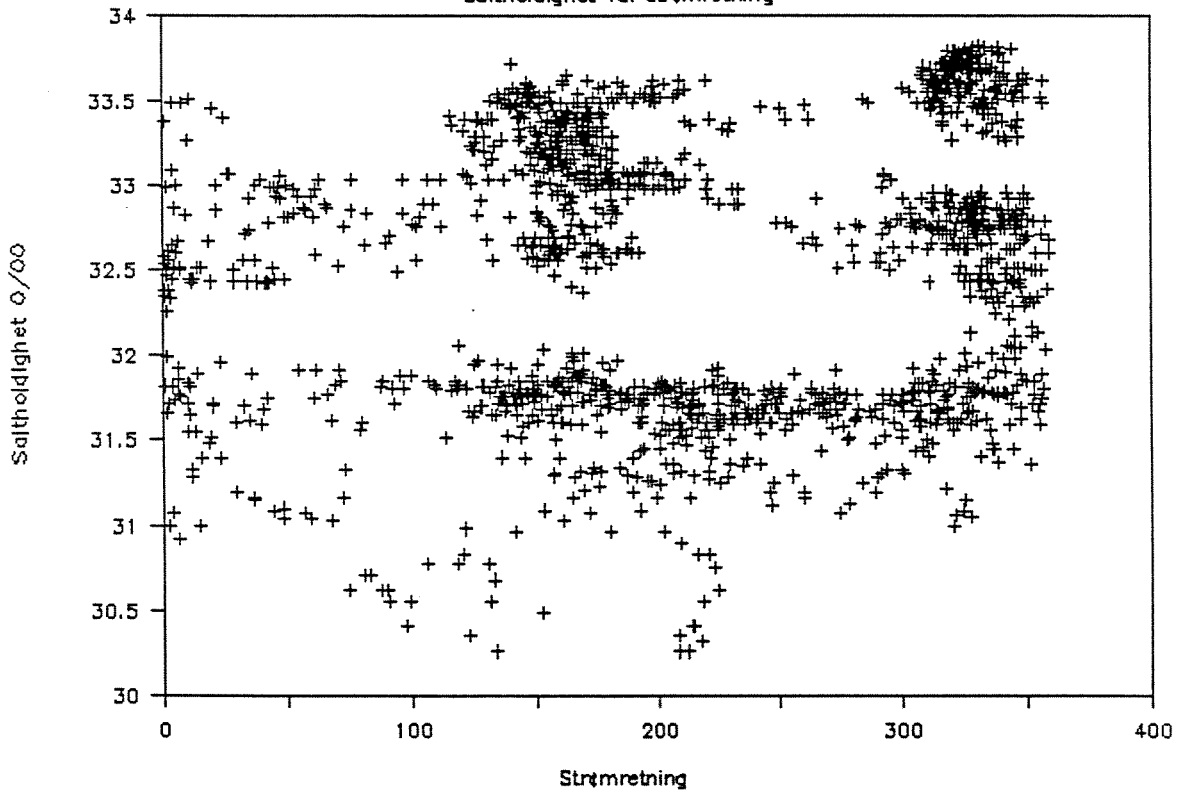


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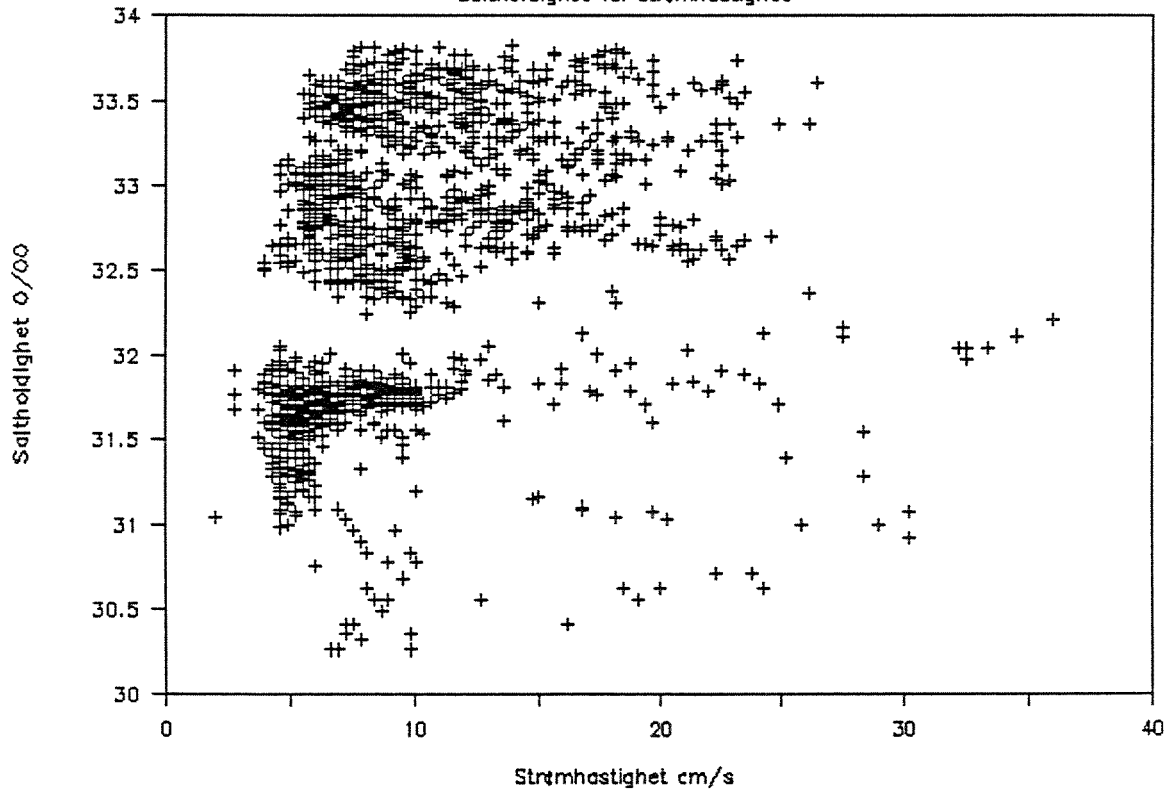
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Saltholdighet vs. strømretning



Grisebådarna 20 m. September 1988

Saltholdighet vs. strømhastighet

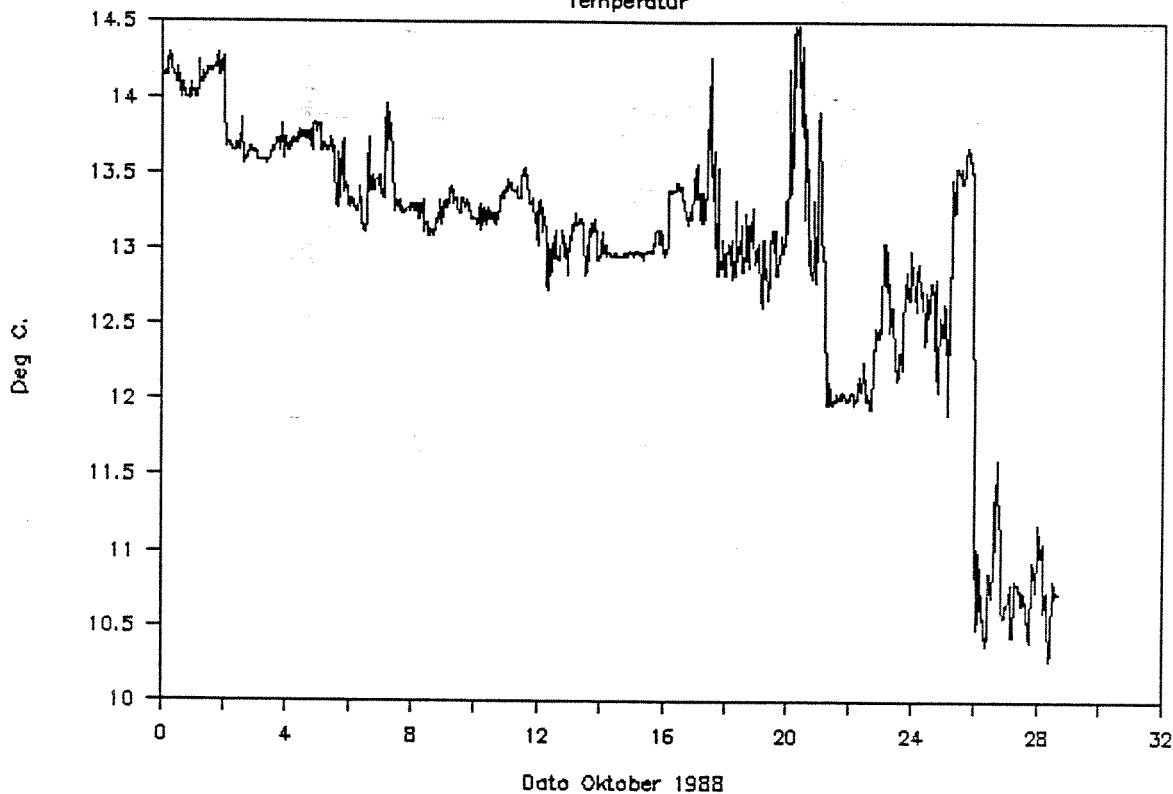


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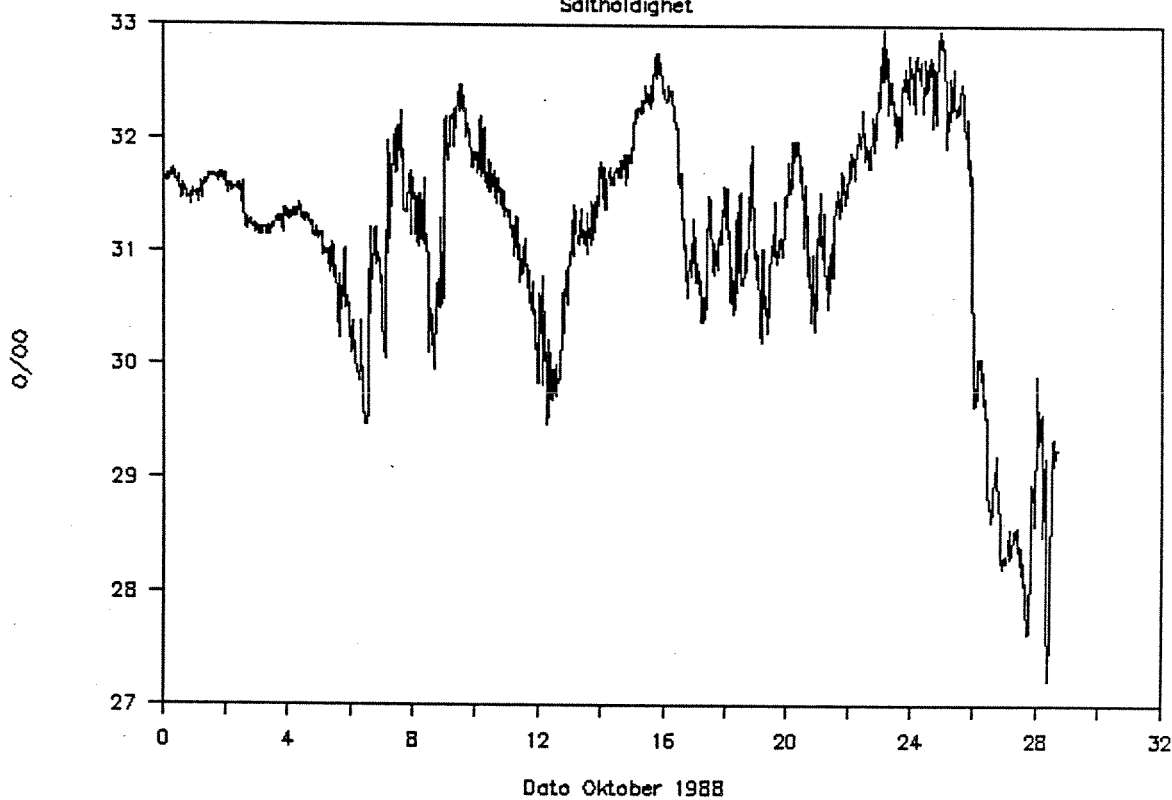
Grisebådarna 20 m.

Temperatur



Grisebådarna 20 m.

Saltholdighet

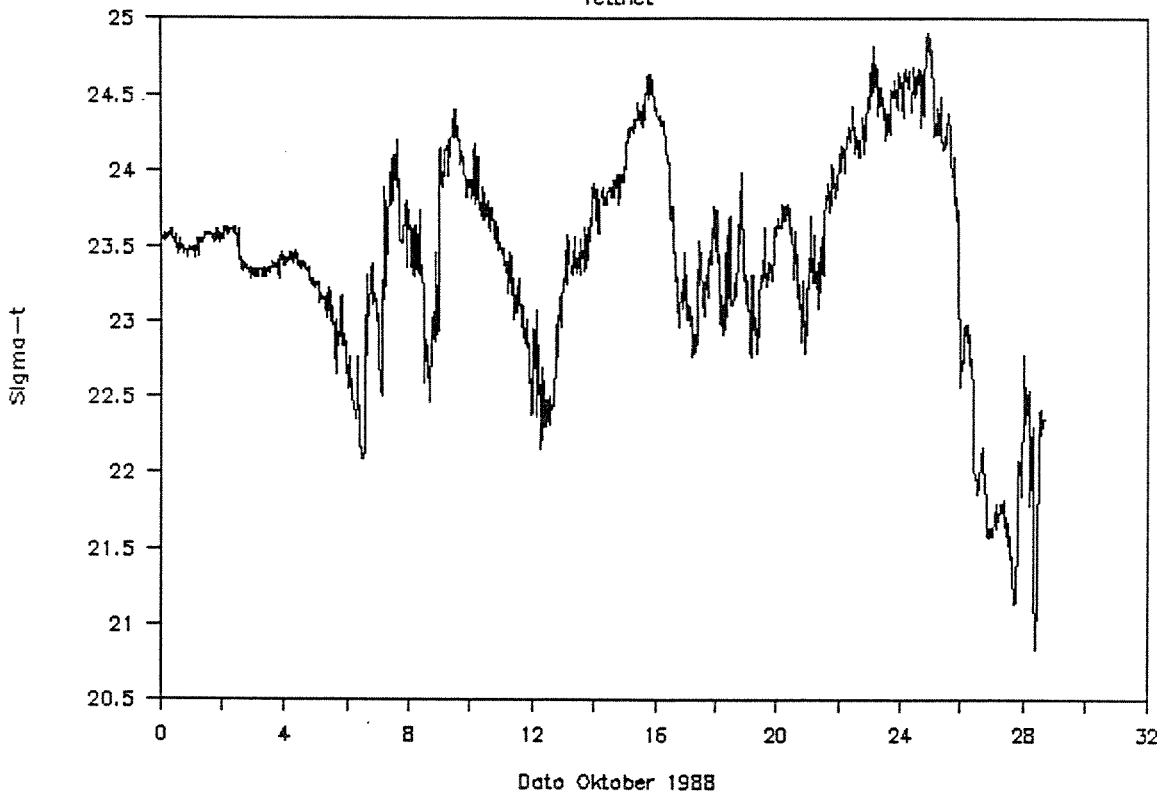


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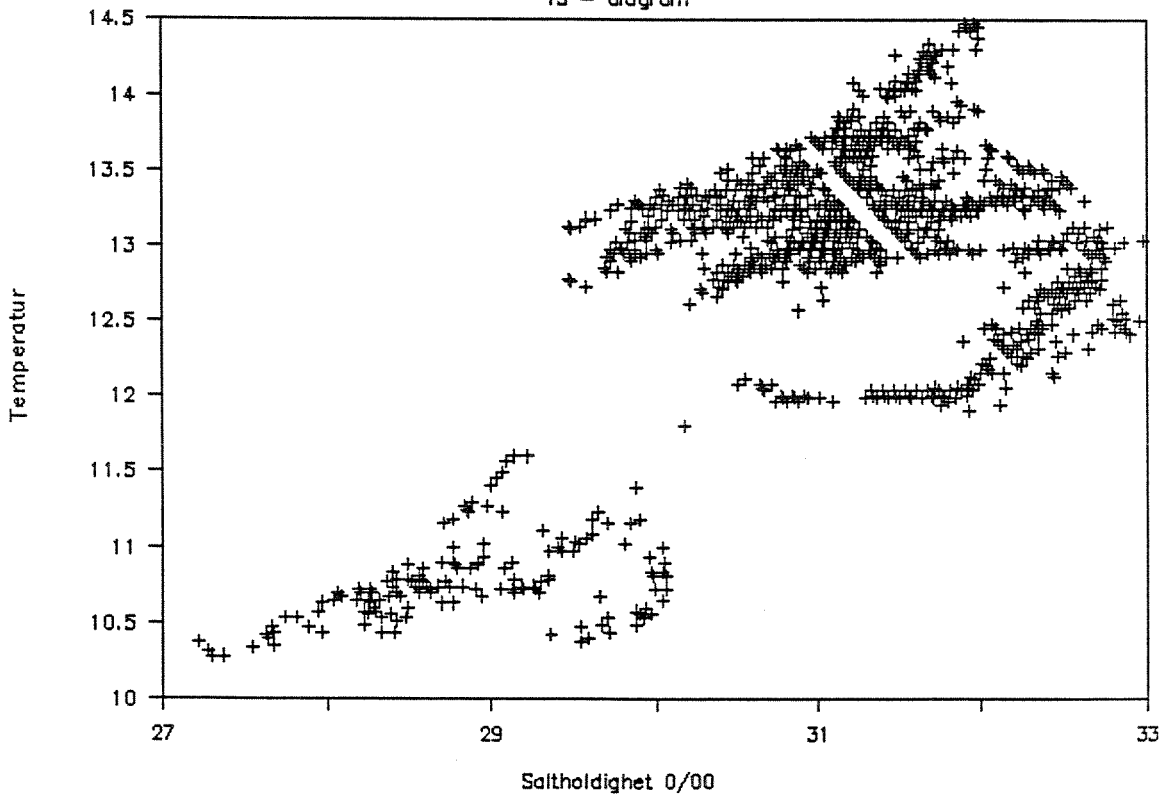
Grisebådarna 20 m.

Tetthet



Grisebådarna 20 m. Oktober 1988

TS - diagram

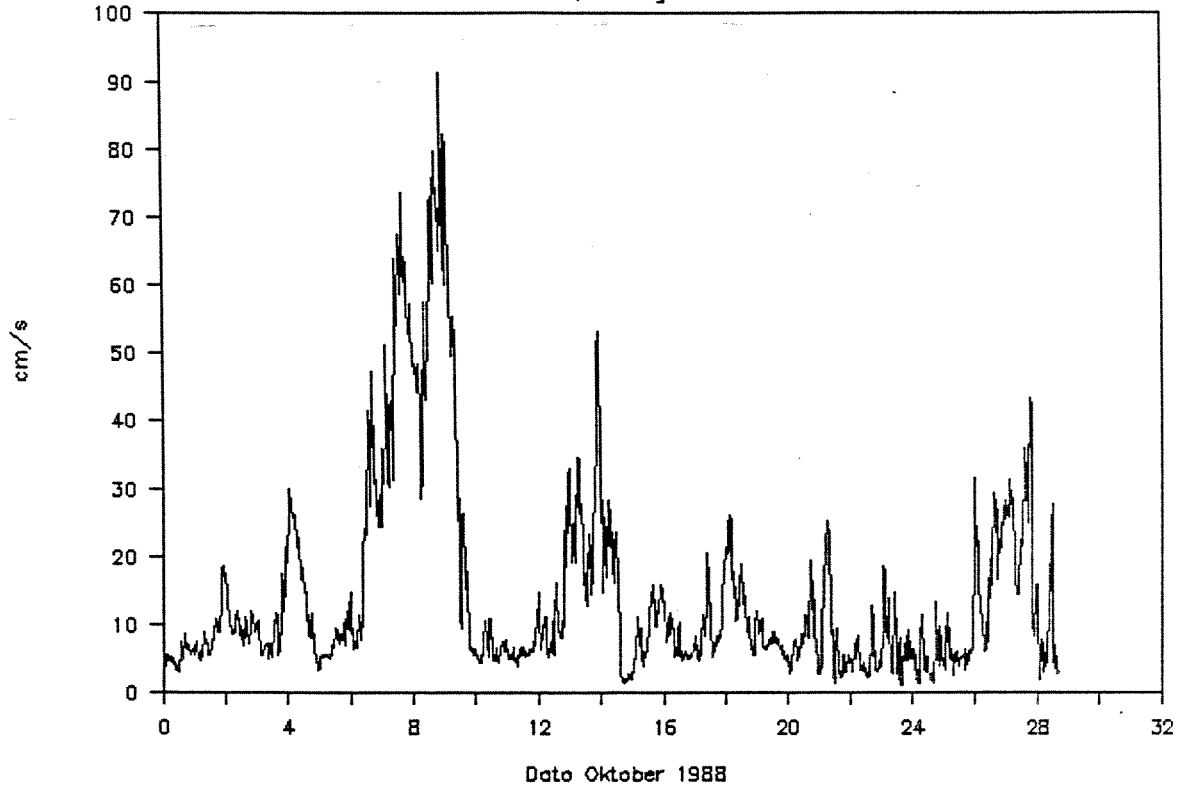


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Veritas Offshore Technology
and Services A/S

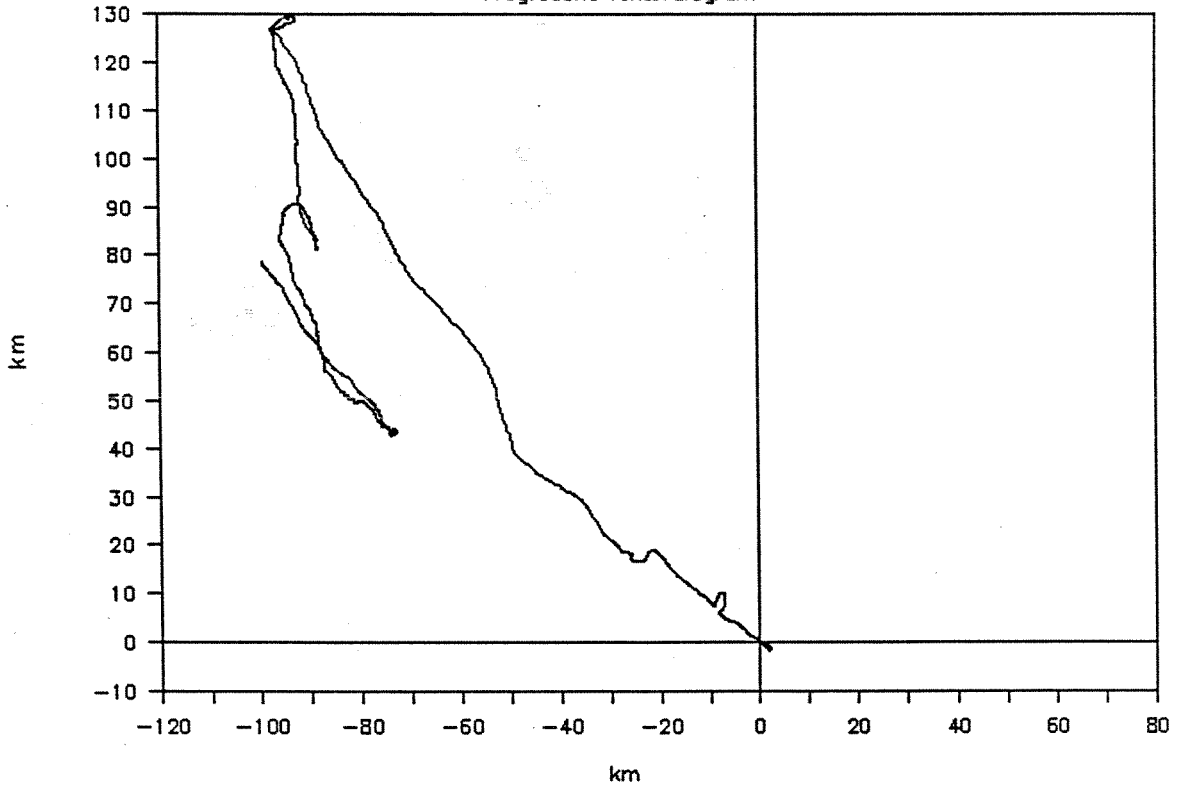
Grisebådarna 20 m.

Strømhastighet



Grisebådarna 20 m. Oktober 1988

Progressivt vektordiagram

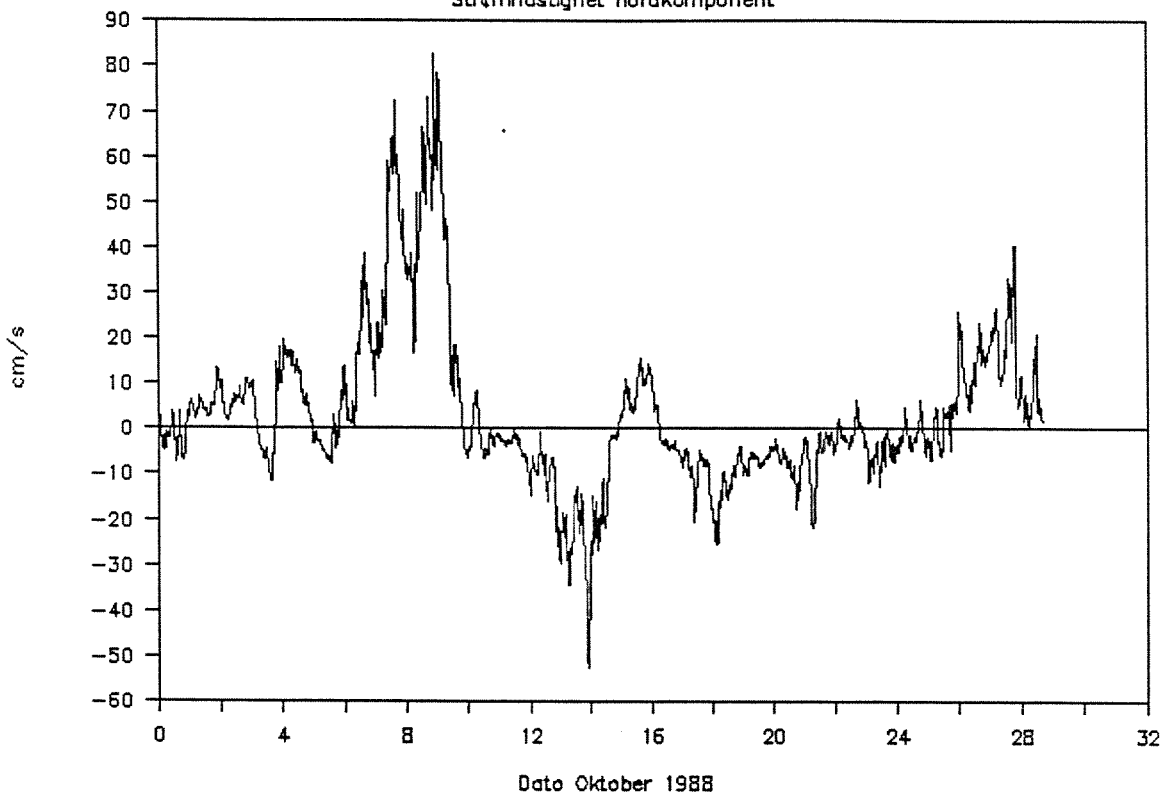


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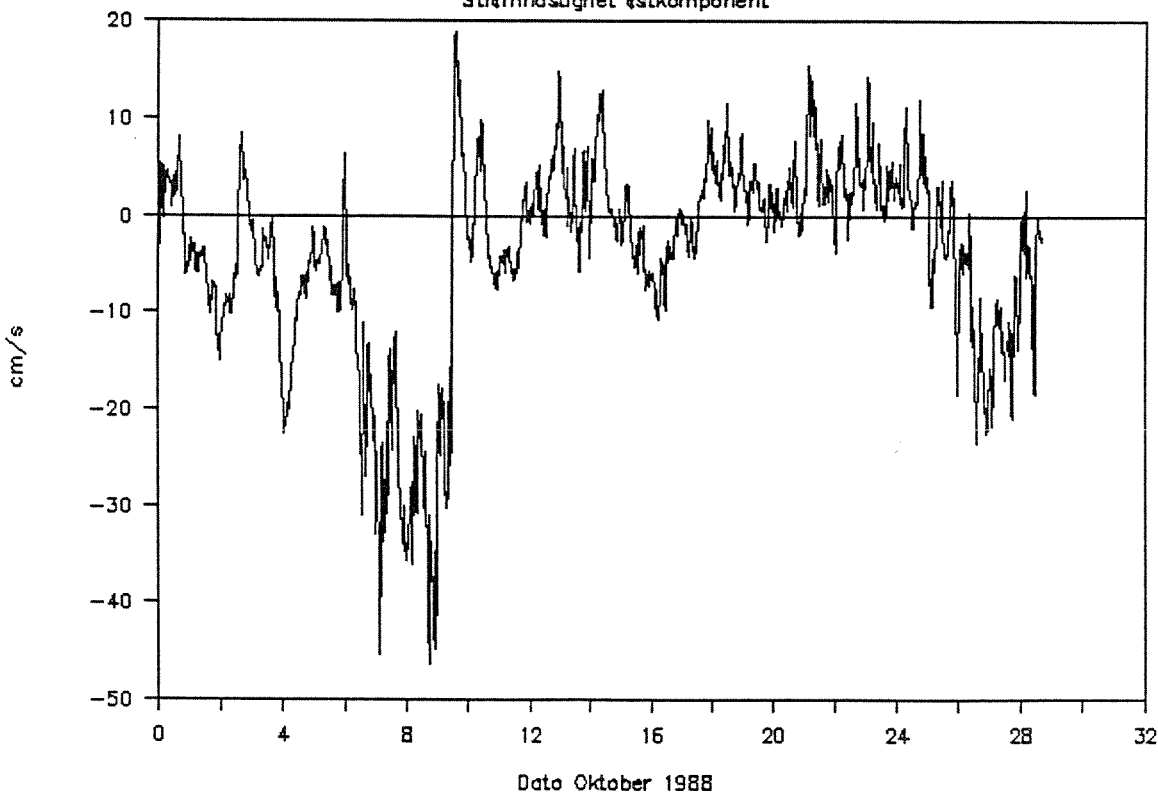
Grisebådarna 20 m.

Strømhastighet nordkomponent



Grisebådarna 20 m.

Strømhastighet østkomponent

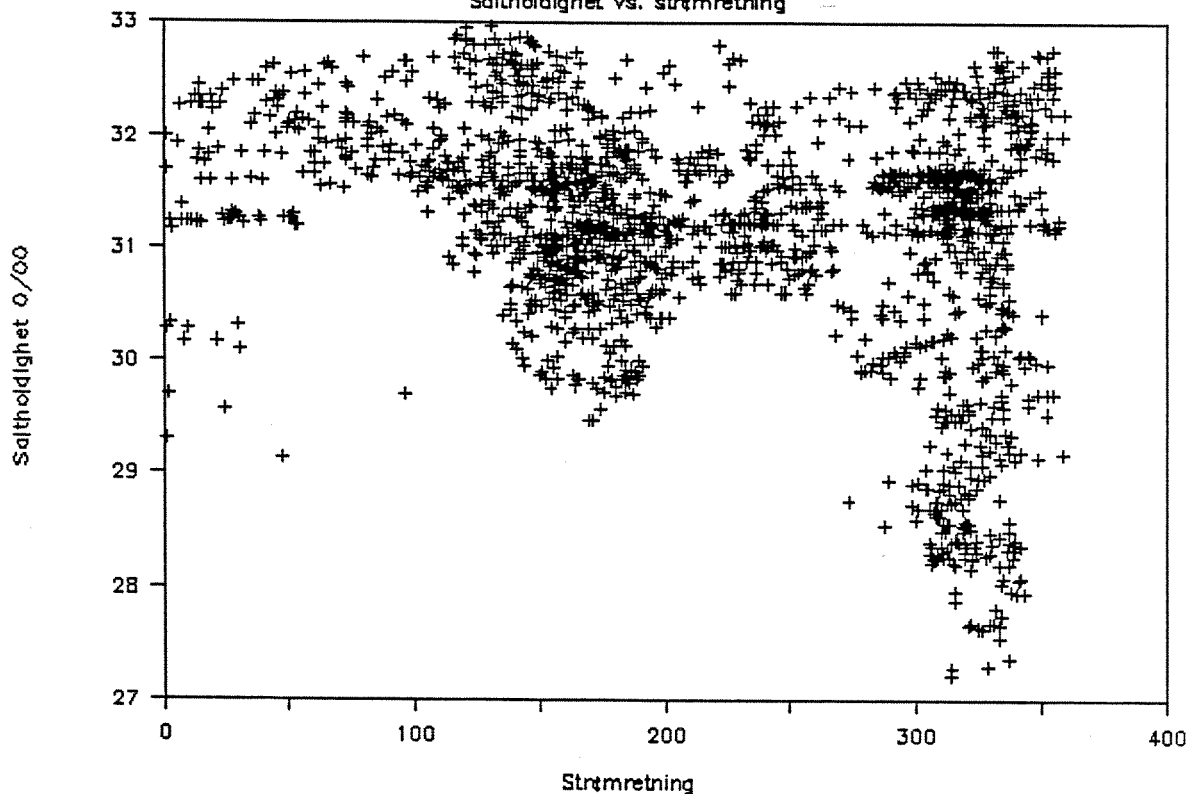


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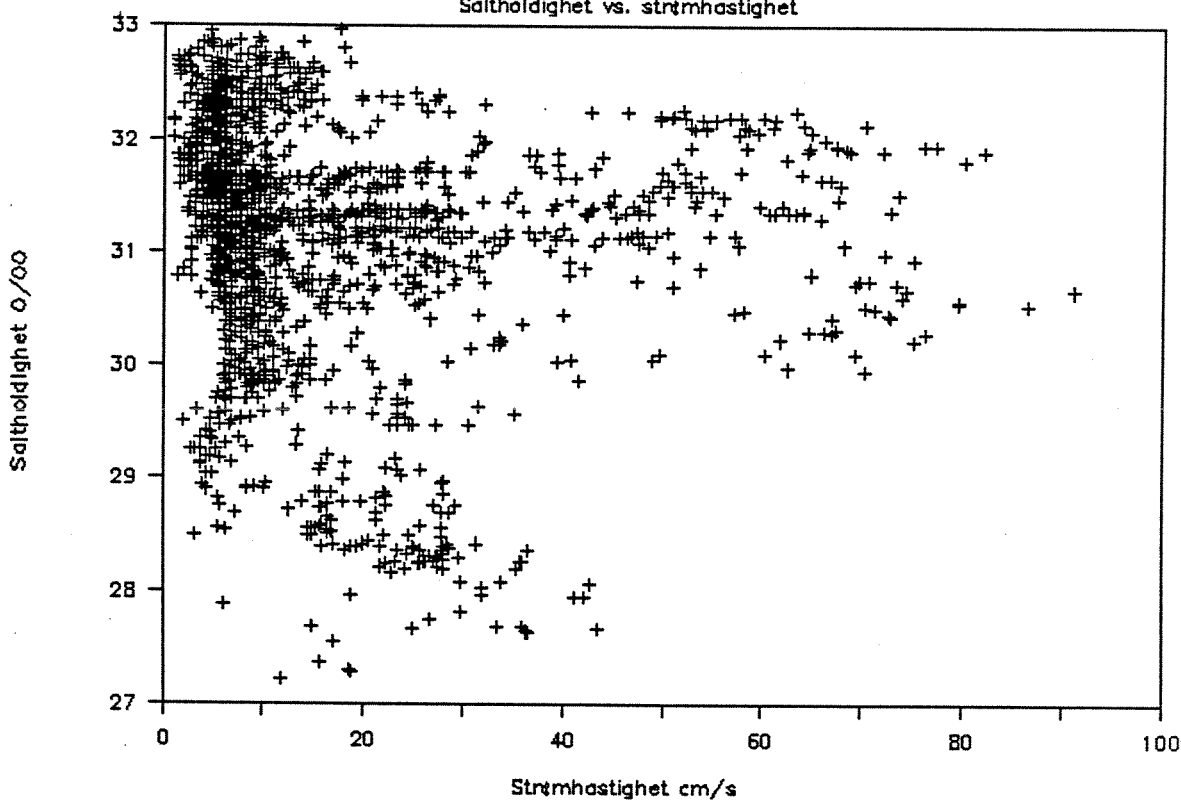
Grisebådarna 20 m. Oktober 1988

Saltholdighet vs. strømretning



Grisebådarna 20 m. Oktober 1988

Saltholdighet vs. strømhastighet

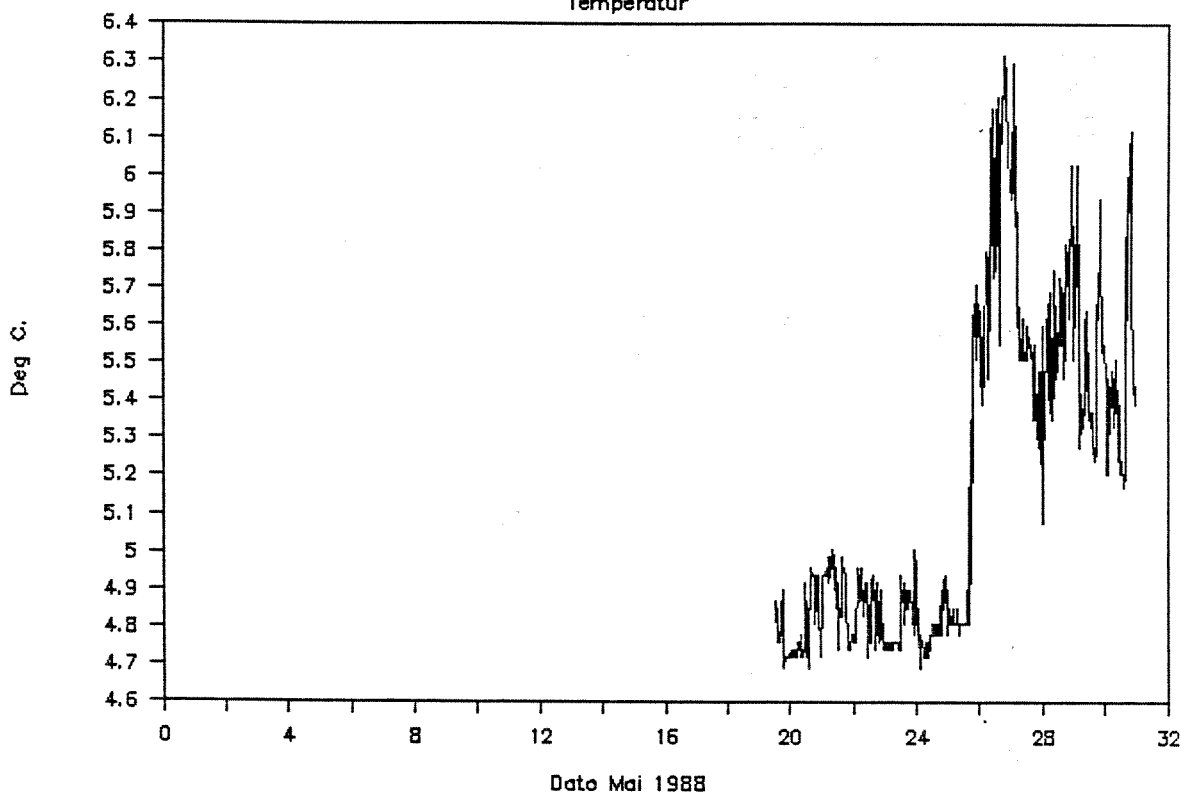
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FINAL ANALYSIS RESULTS IN CURRENT ELLIPSE FORM
 FOR STATION 9999, GRISEBAADENE 30 METERS, AT THE LOCATION 58 54, 10 48
 OVER THE PERIOD OF 14HR 20/ 5/88 TO 12HR 11/ 8/88
 GREENWICH PHASES ARE FOR TIME ZONE GMT

NAME	SPEED	MAJOR	MINOR	INC	G	G+	G-
1 ZO	.00000000	7.218	.000	2.4	180.0	177.6	182.4
2 MM	.00151215	36.276	12.515	119.0	283.4	164.4	42.4
3 MSF	.00282193	28.058	-1.746	113.1	248.7	135.6	1.7
4 ALP1	.03439657	9.011	-2.300	107.7	123.2	15.5	230.9
5 2Q1	.03570635	5.965	1.133	108.8	269.3	160.4	18.1
6 Q1	.03721850	6.444	-.944	104.5	270.5	166.0	14.9
7 O1	.03873065	6.401	.722	137.3	22.3	245.0	159.5
8 NO1	.04026860	4.015	.679	110.9	130.2	19.4	241.1
9 K1	.04178075	4.166	-1.734	142.5	98.7	316.2	241.2
10 J1	.04329290	4.048	1.122	136.0	131.5	355.5	267.6
11 OO1	.04483084	3.022	.152	69.8	221.7	152.0	291.5
12 UPS1	.04634299	2.844	-.420	124.6	263.8	139.2	28.4
13 EPS2	.07617731	1.113	.669	78.2	46.1	327.9	124.3
14 MU2	.07768947	3.758	-1.139	136.0	166.9	30.9	303.0
15 N2	.07899925	2.572	-.126	79.8	350.4	270.6	70.2
16 M2	.08051140	7.831	.928	76.4	76.6	.2	153.1
17 L2	.08202355	5.446	2.347	50.9	299.0	248.2	349.9
18 S2	.08333334	2.290	1.187	31.9	344.2	312.3	16.1
19 ETA2	.08507364	2.085	-.526	143.6	109.3	325.7	252.9
20 MO3	.11924210	.959	-.347	25.6	286.9	261.3	312.6
21 M3	.12076710	.901	-.380	49.6	101.1	51.5	150.7
22 MK3	.12229210	.973	-.846	57.2	167.6	110.4	224.8
23 SK3	.12511410	1.933	.184	154.9	352.5	197.6	147.4
24 MN4	.15951060	1.791	-1.168	49.3	337.4	288.1	26.7
25 M4	.16102280	2.058	-.917	30.1	34.8	4.8	64.9
26 SN4	.16233260	2.484	.597	75.1	42.3	327.2	117.4
27 MS4	.16384470	1.262	.570	154.3	143.2	348.9	297.5
28 S4	.16666670	1.414	.109	81.3	156.1	74.8	237.4
29 2MK5	.20280360	1.168	.315	61.6	283.5	221.9	345.1
30 2SK5	.20844740	1.069	-.275	61.8	59.5	357.7	121.3
31 2MN6	.24002200	1.581	.392	86.4	327.6	241.1	54.0
32 M6	.24153420	1.210	-.396	46.1	22.0	335.9	68.1
33 2MS6	.24435610	1.385	-.164	74.0	67.5	353.5	141.5
34 2SM6	.24717810	1.202	-.185	50.4	222.7	172.3	273.2
35 3MK7	.28331490	.635	-.109	108.2	352.9	244.8	101.1
36 M8	.32204560	.452	.088	101.6	28.3	286.8	129.9

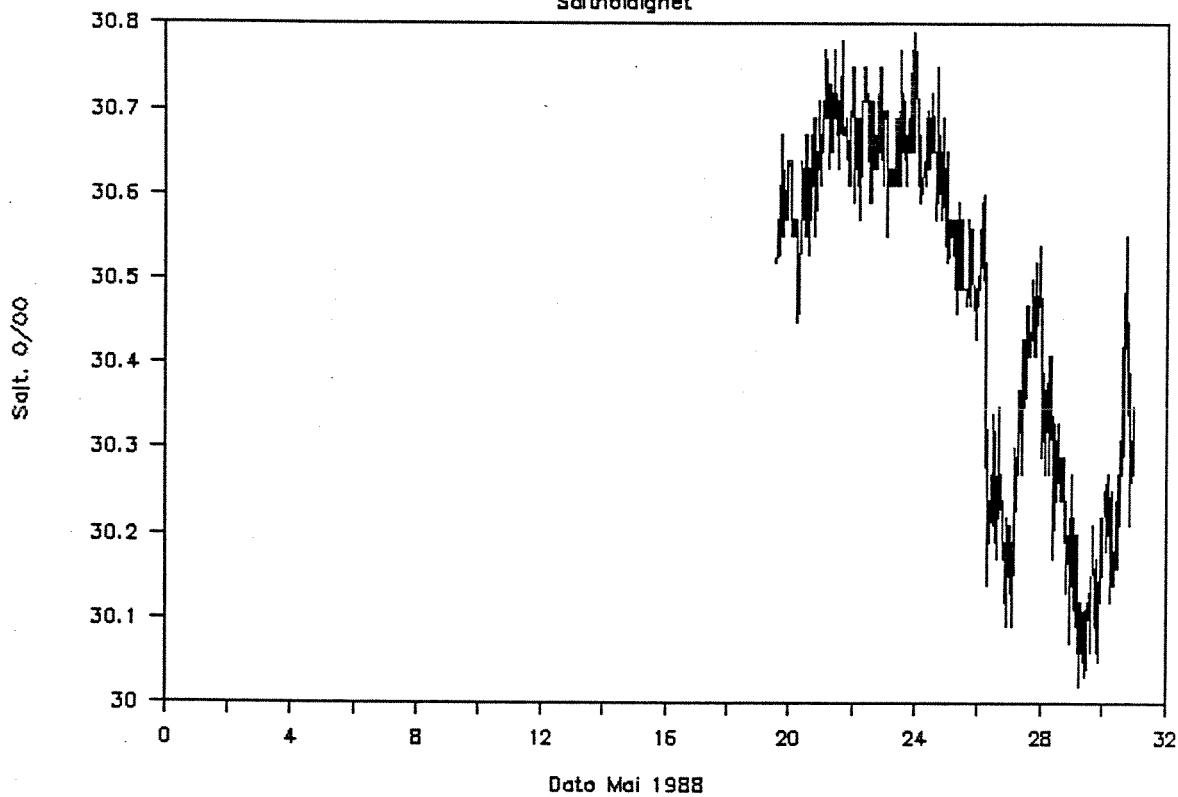
Grisebådarna 30 m.

Temperatur



Grisebådarna 30 m.

Saltholdighet

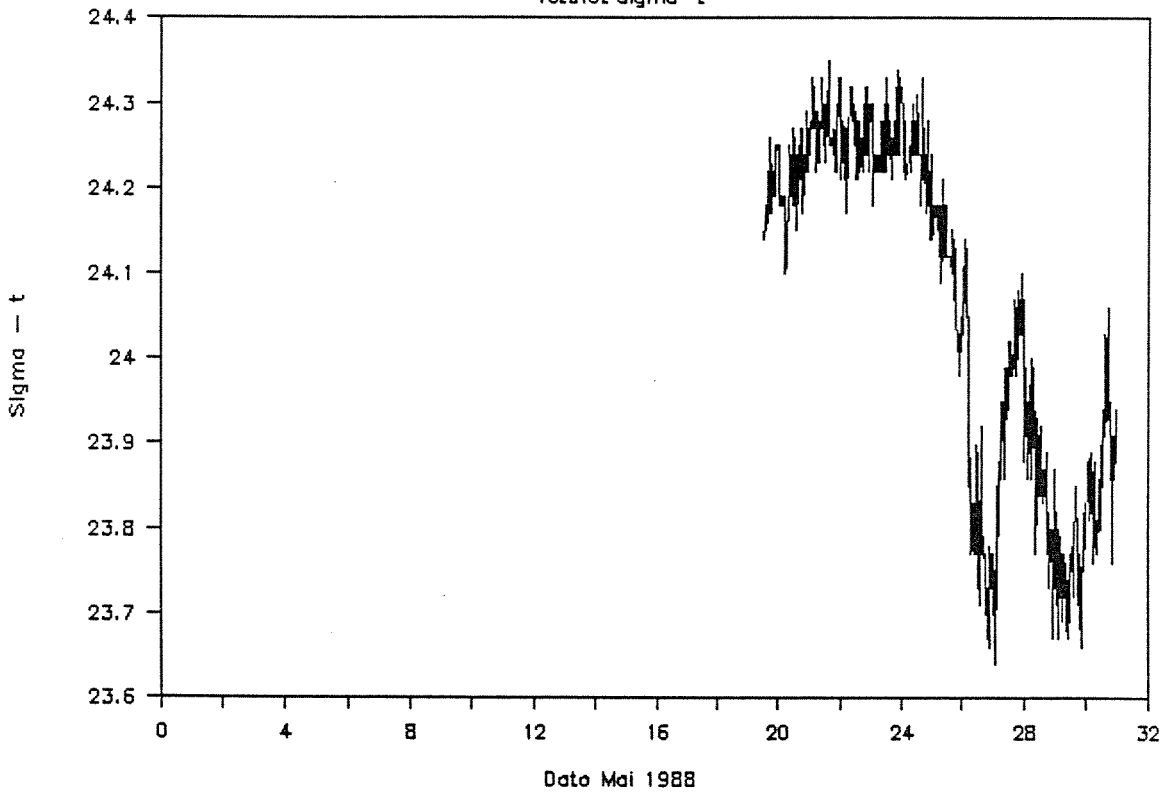


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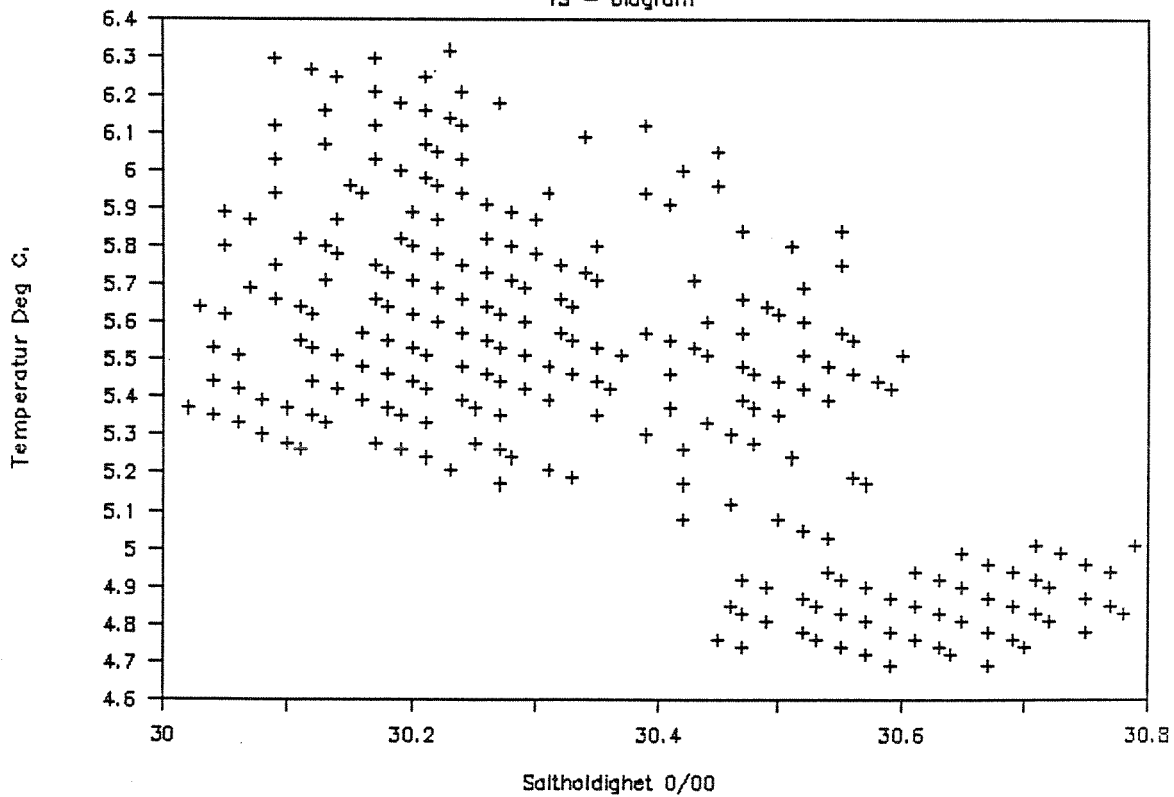
Grisebådarna 30 m.

Tetthet sigma-t



Grisebådarna 30 m. Mai 1988

TS - Diagram

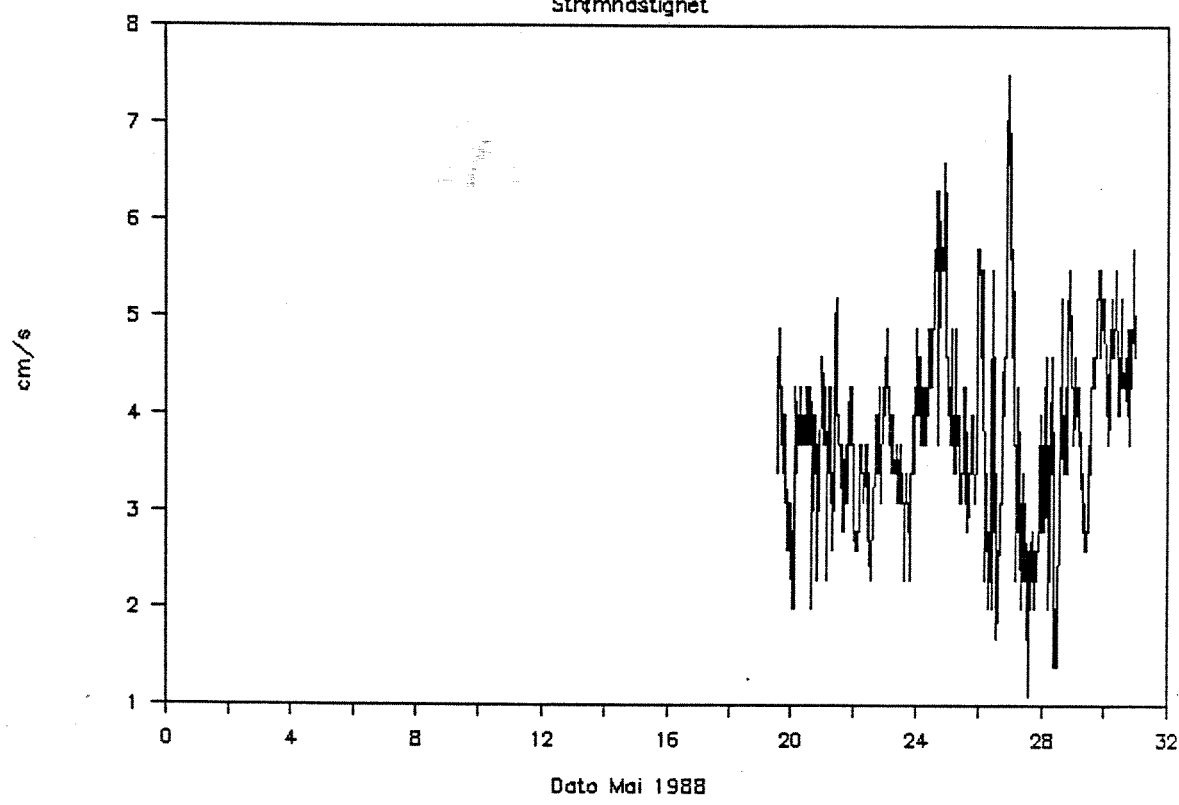


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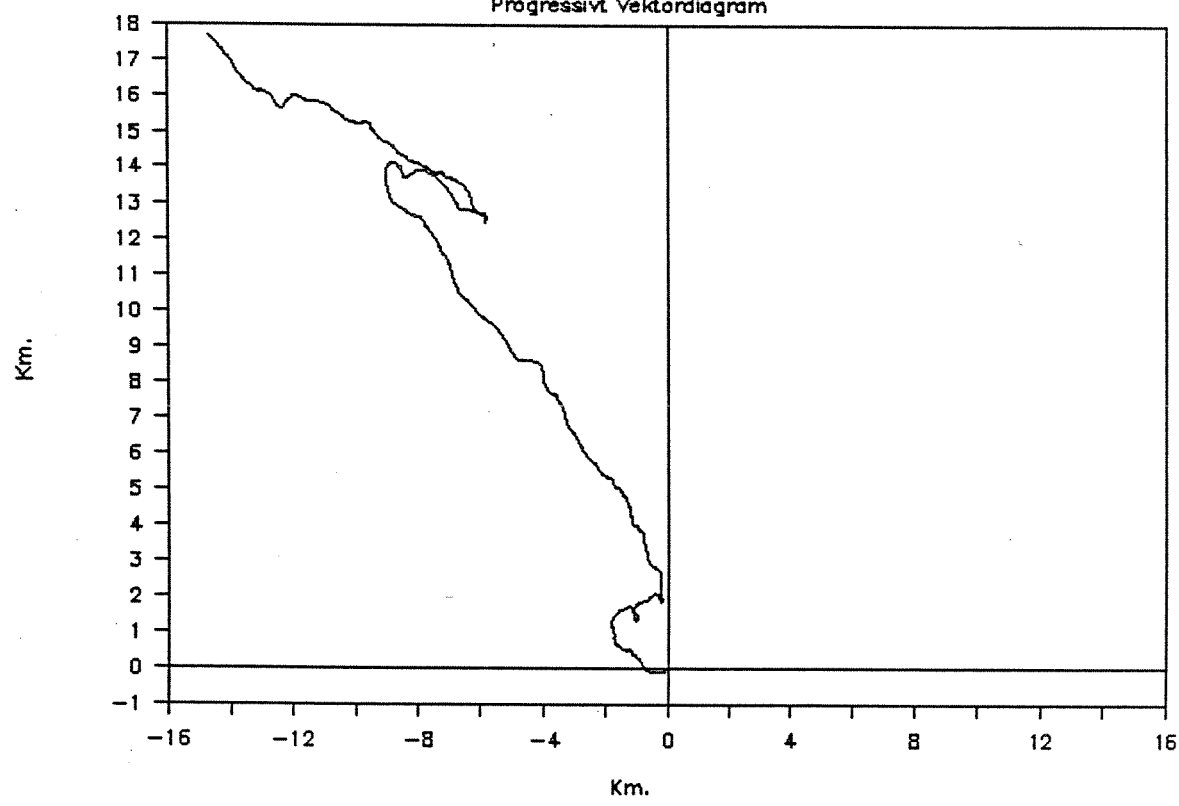
Grisebådarna 30 m.

Strømhastighet



Grisebådarna 30 m. Mai 1988

Progressivt Vektordiagram

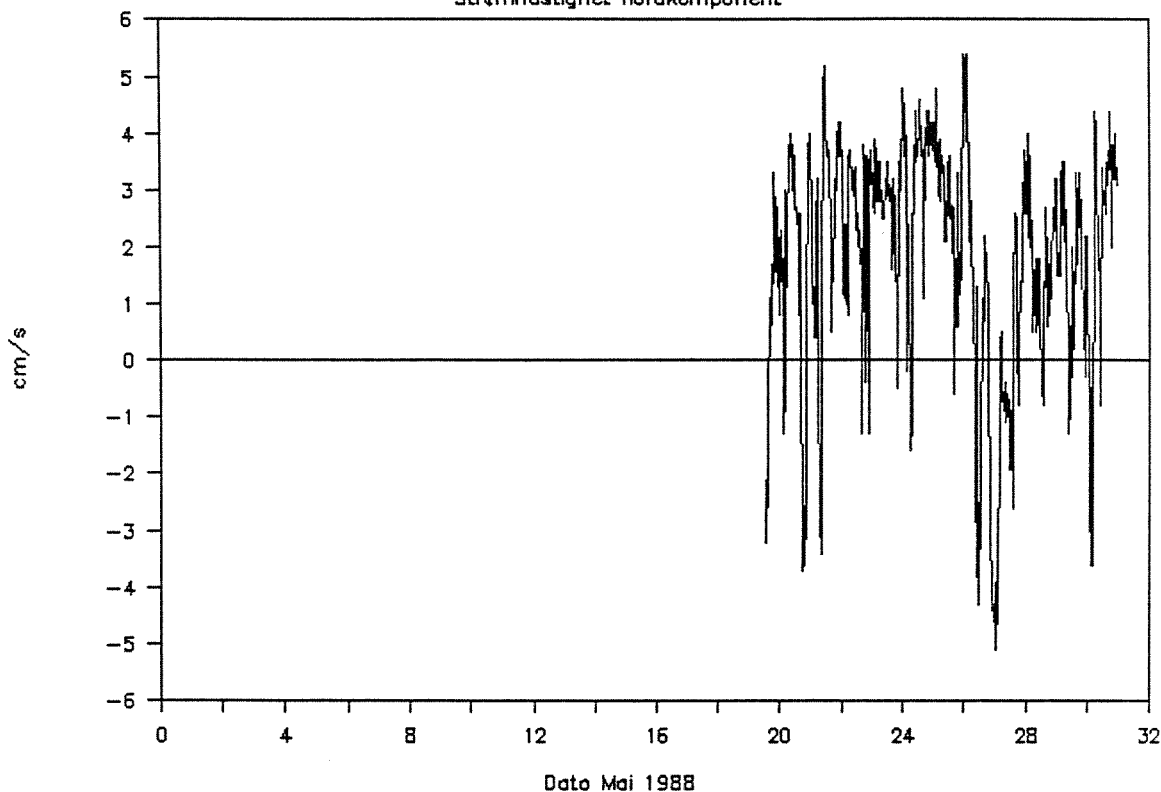


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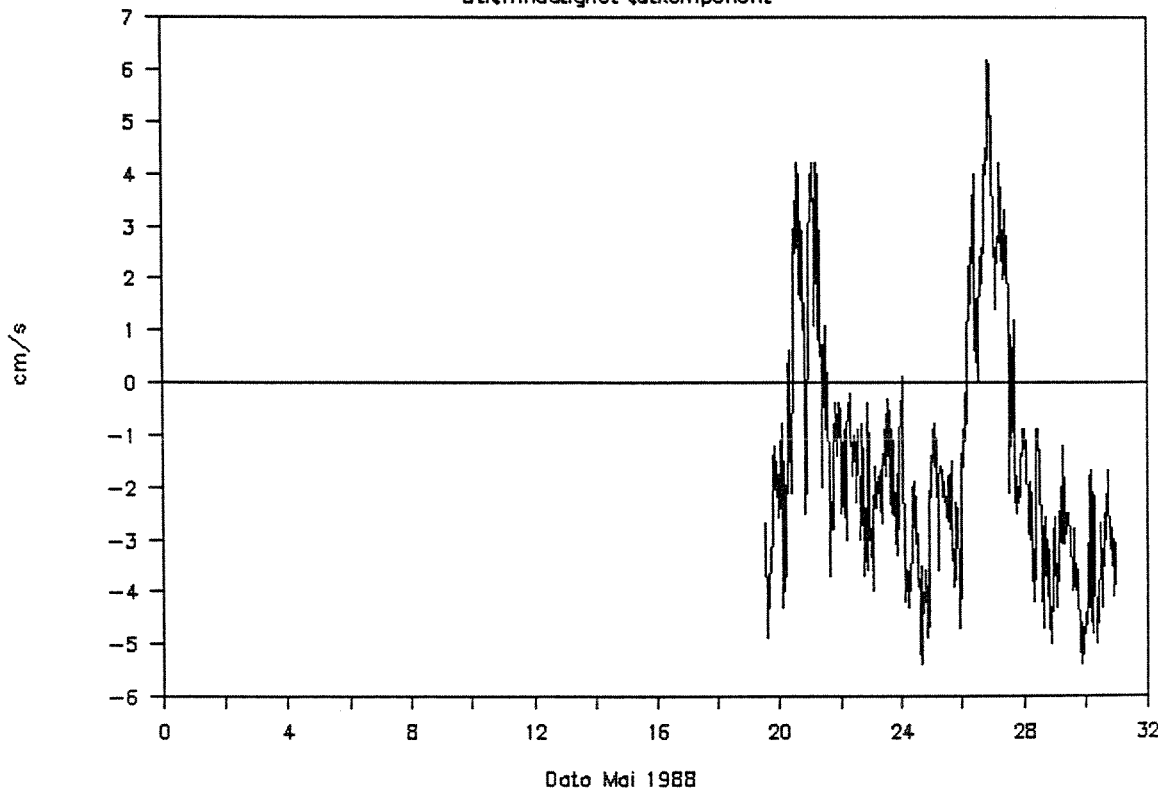
Grisebådarna 30 m.

Strømhastighet nordkomponent



Grisebådarna 30 m.

Strømhastighet østkomponent

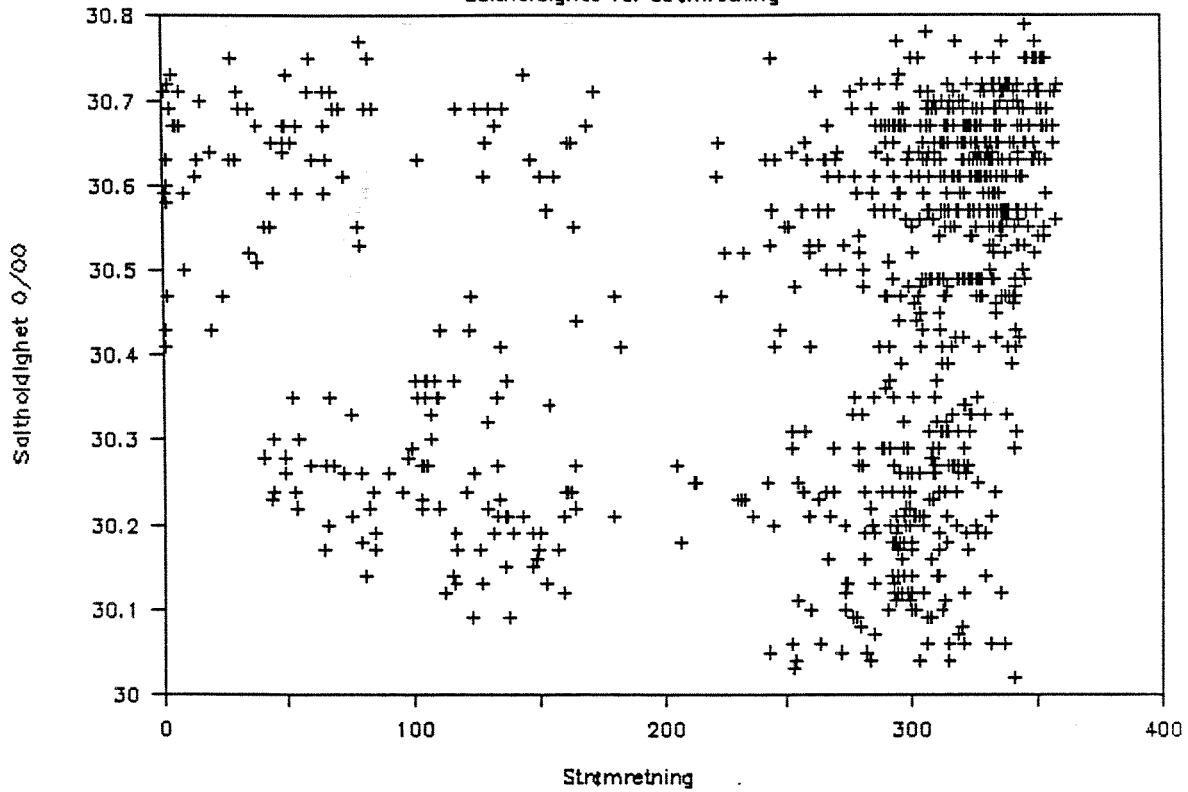


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and Services A/S

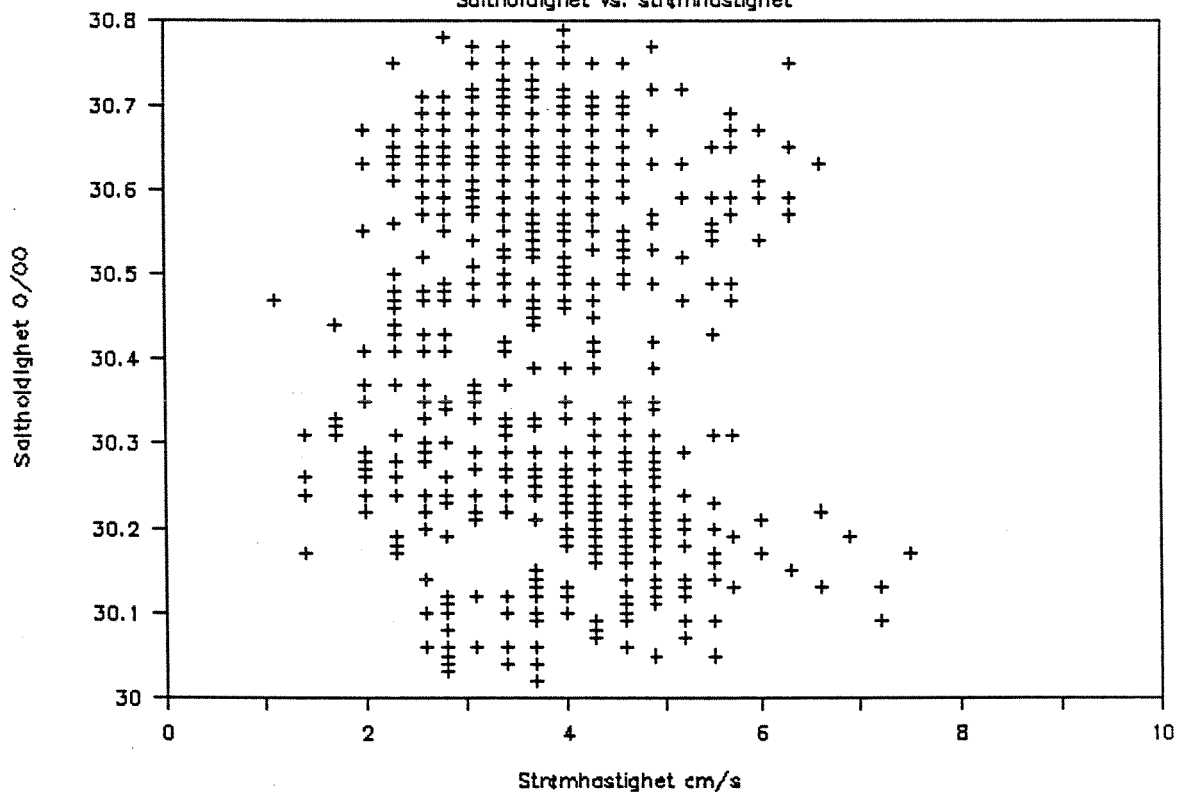
Grisebådarna 30 m. Mai 1988

Saltholdighet vs. strømretning



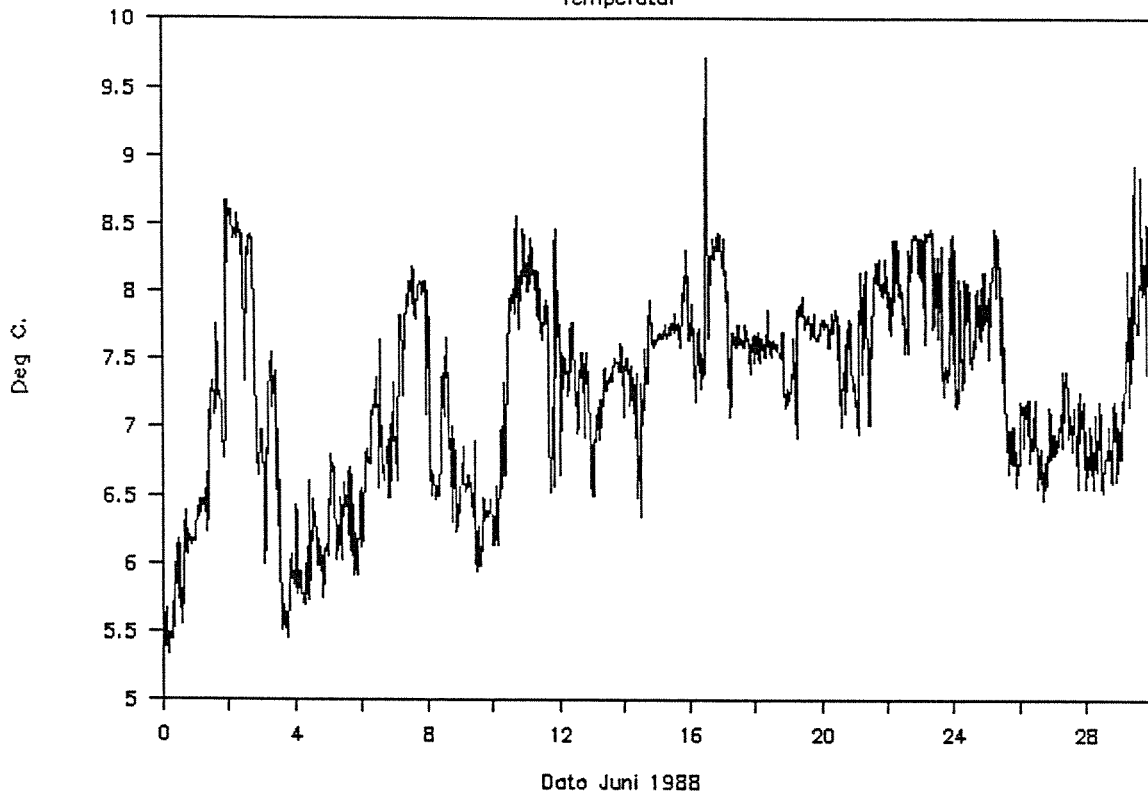
Grisebådarna 30 m. Mai 1988

Saltholdighet vs. strømhastighet

**VERITEC**Veritas Offshore Technology
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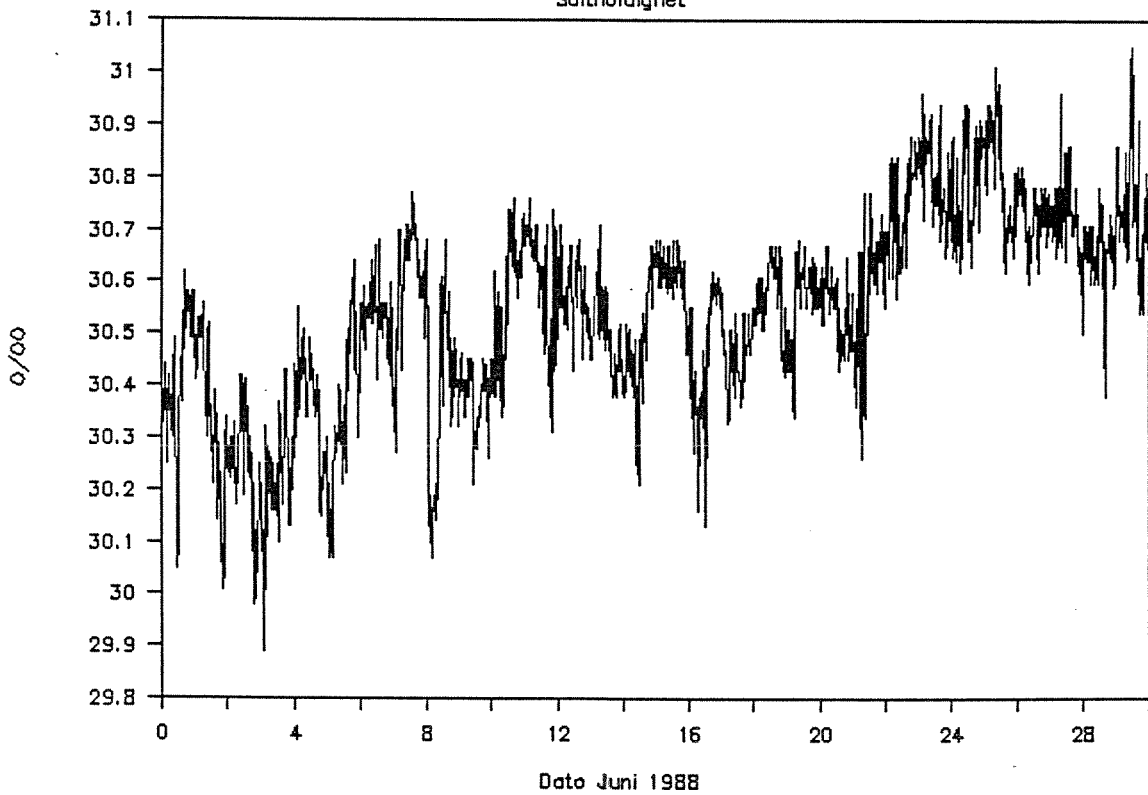
Grisebådarna 30 m.

Temperatur



Grisebådarna 30 m.

Saltholdighet

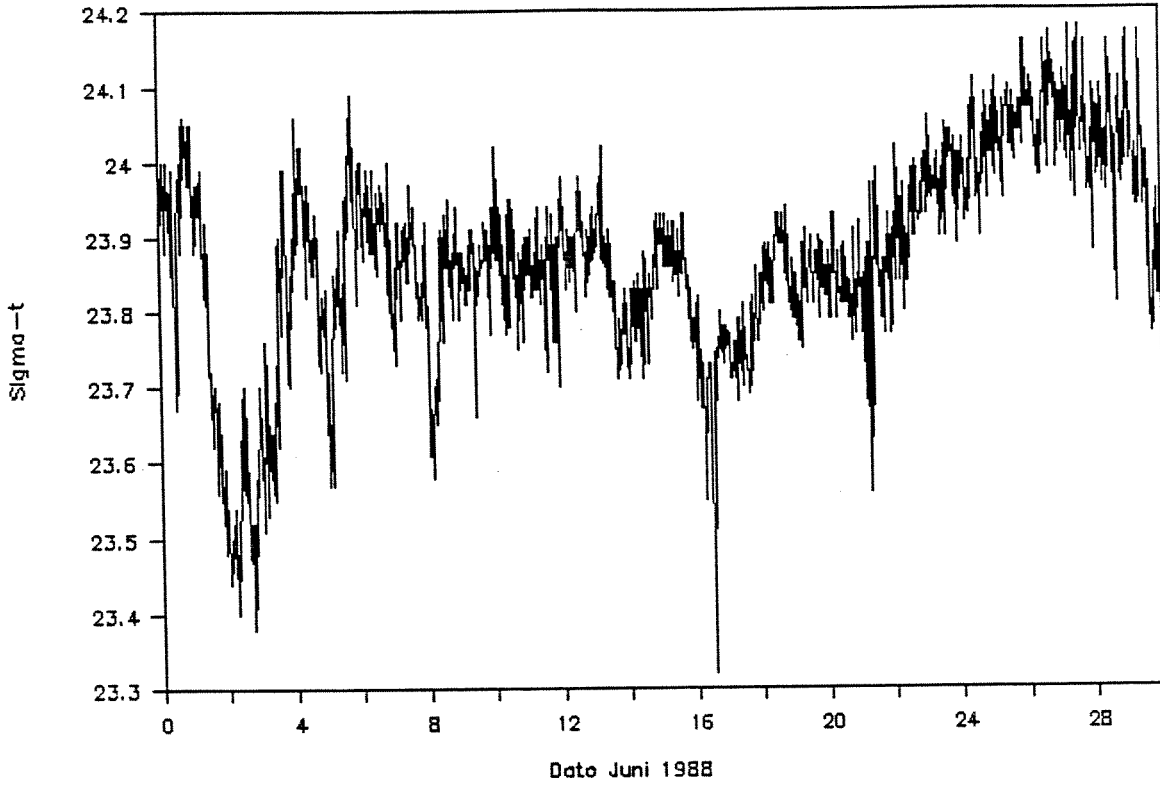


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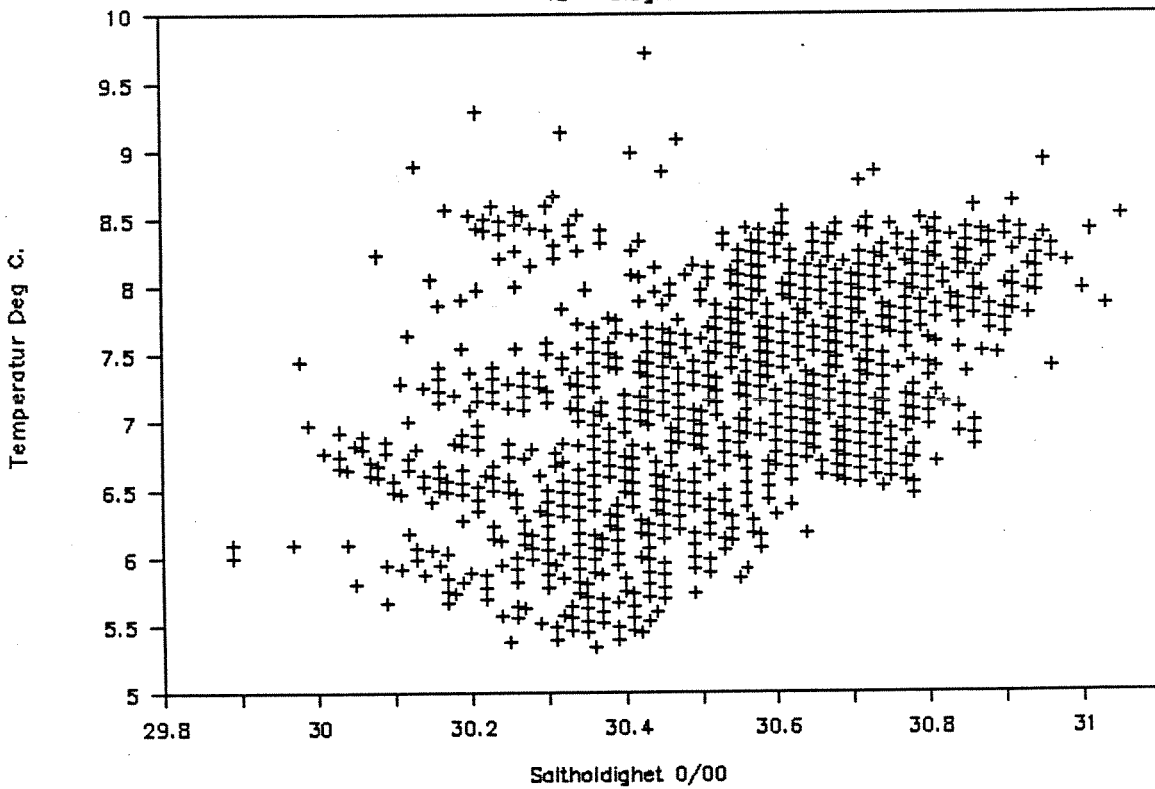
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Tetthet



Grisebådarna 30 m. Juni 1988

TS - Diagram

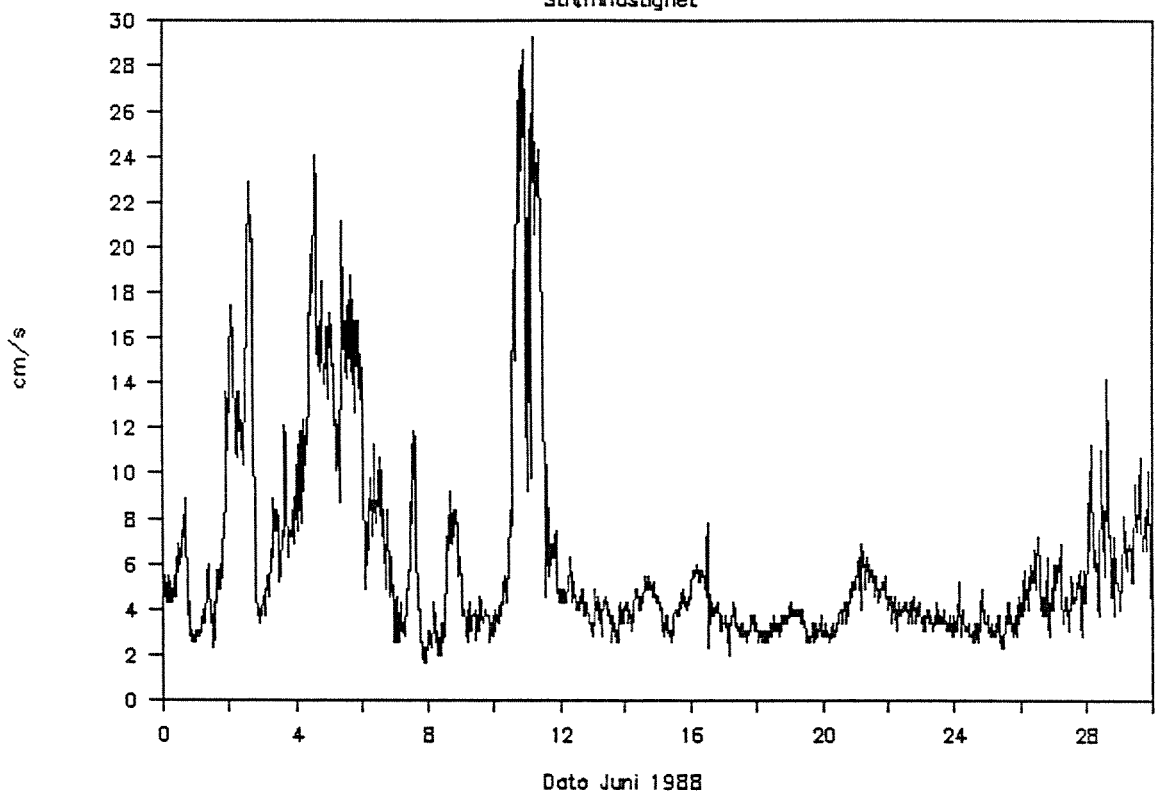


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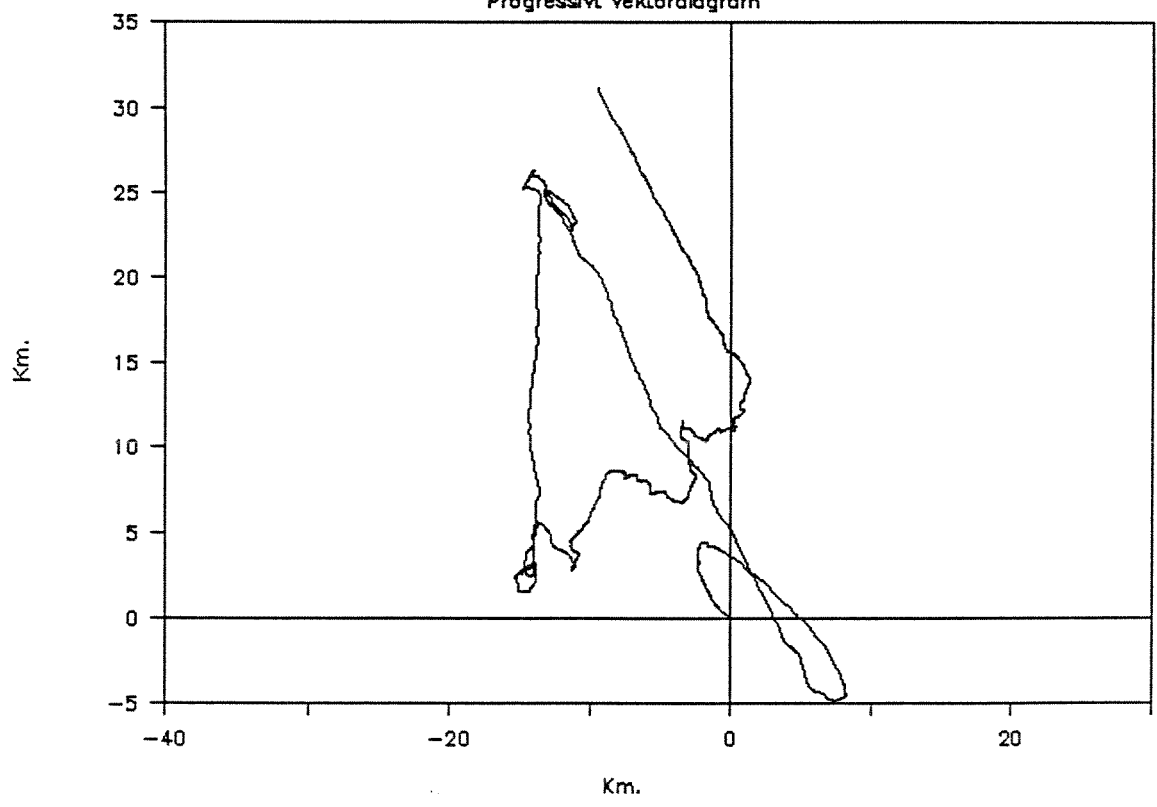
Grisebådarna 30 m.

Strømhastighet



Grisebådarna 30 m. Juni 1988

Progressivt Vektordiagram

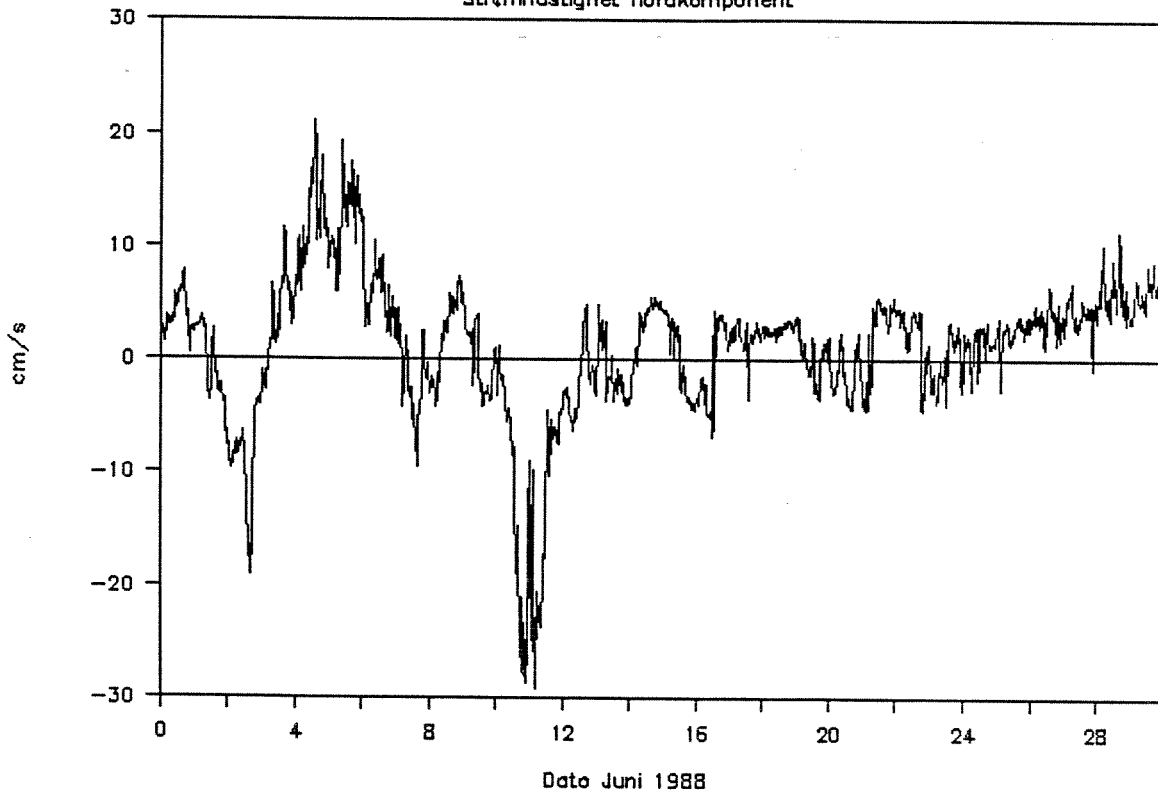


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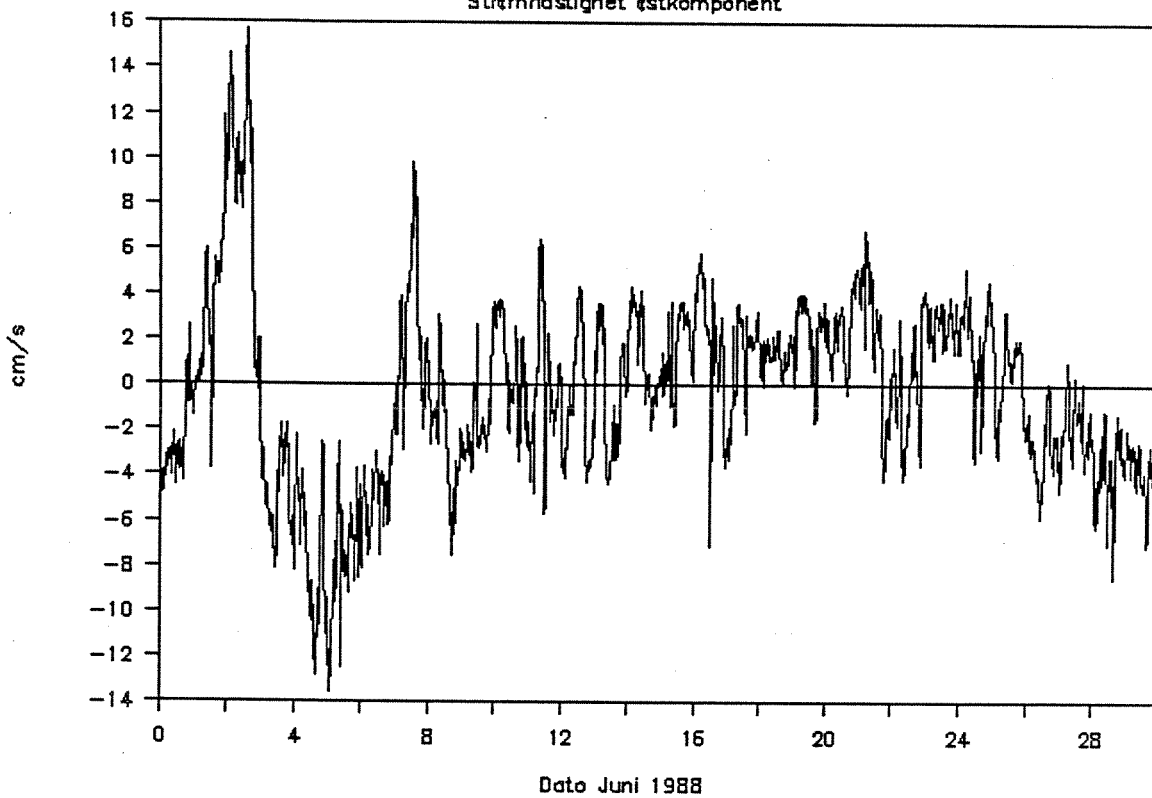
Grisebådarna 30 m.

Strømhastighet nordkomponent



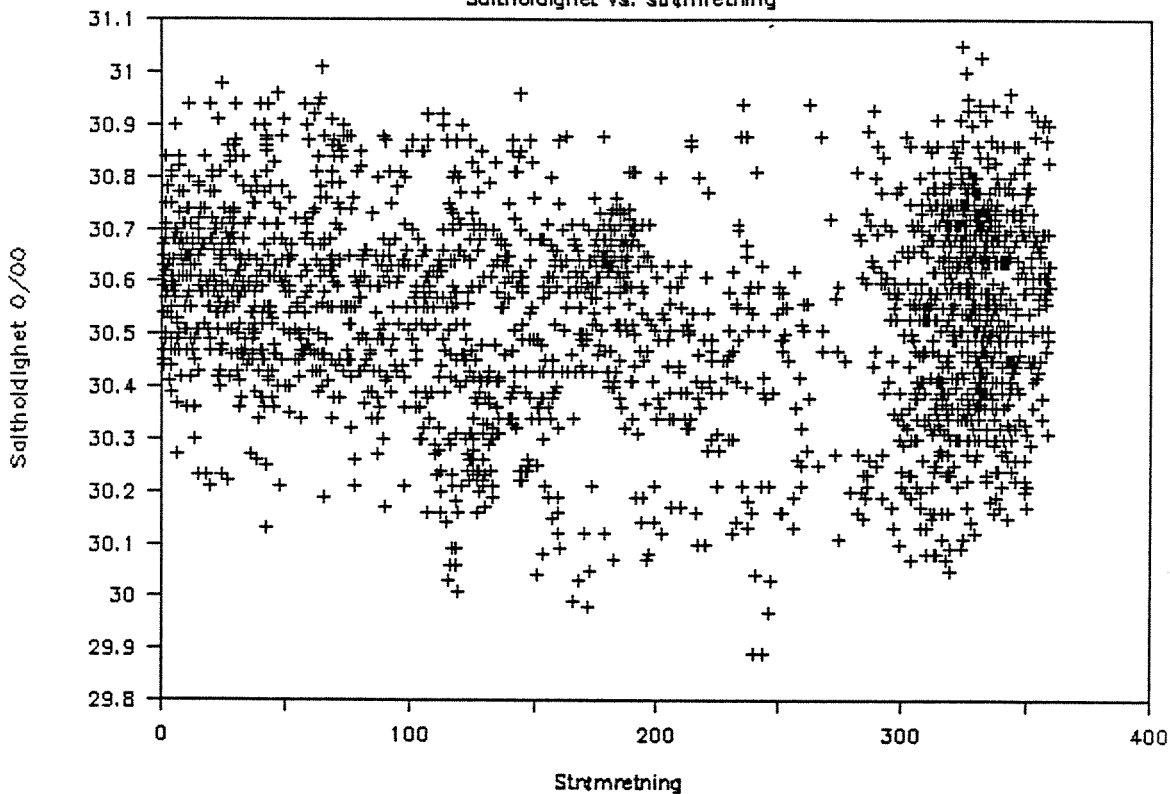
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Strømhastighet østkomponent

**VERITEC**Veritas Offshore Technology
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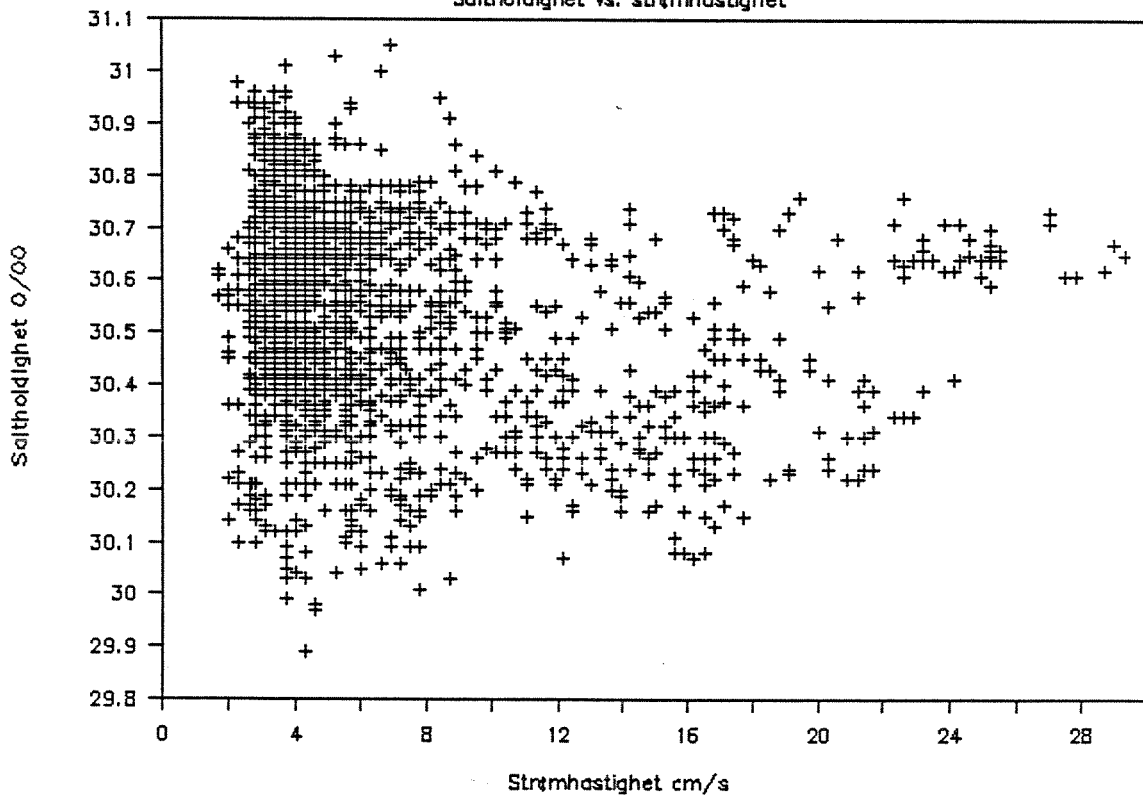
Grisebådarna 30 m. Juni 1988

Saltholdighet vs. strömretning



Grisebådarna 30 m. Juni 1988

Saltholdighet vs. strømhastighet

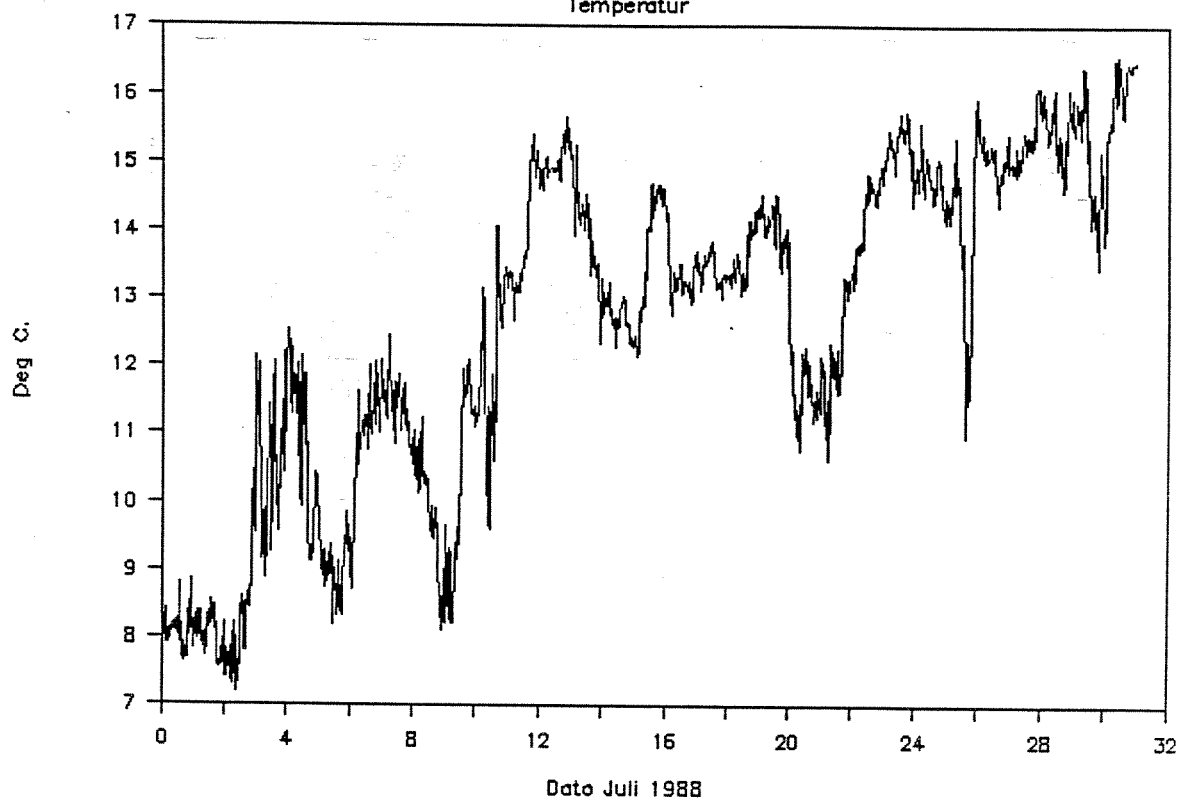


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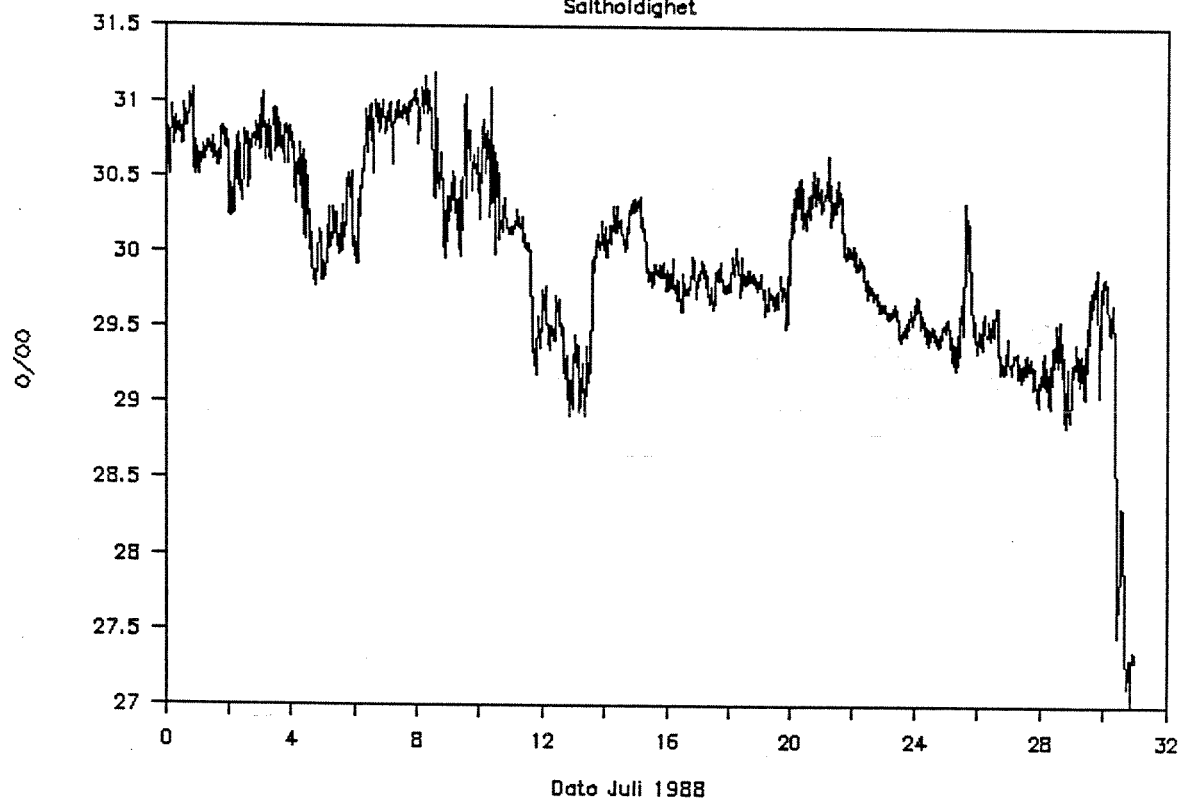
Grisebådarna 30 m.

Temperatur



Grisebådarna 30 m.

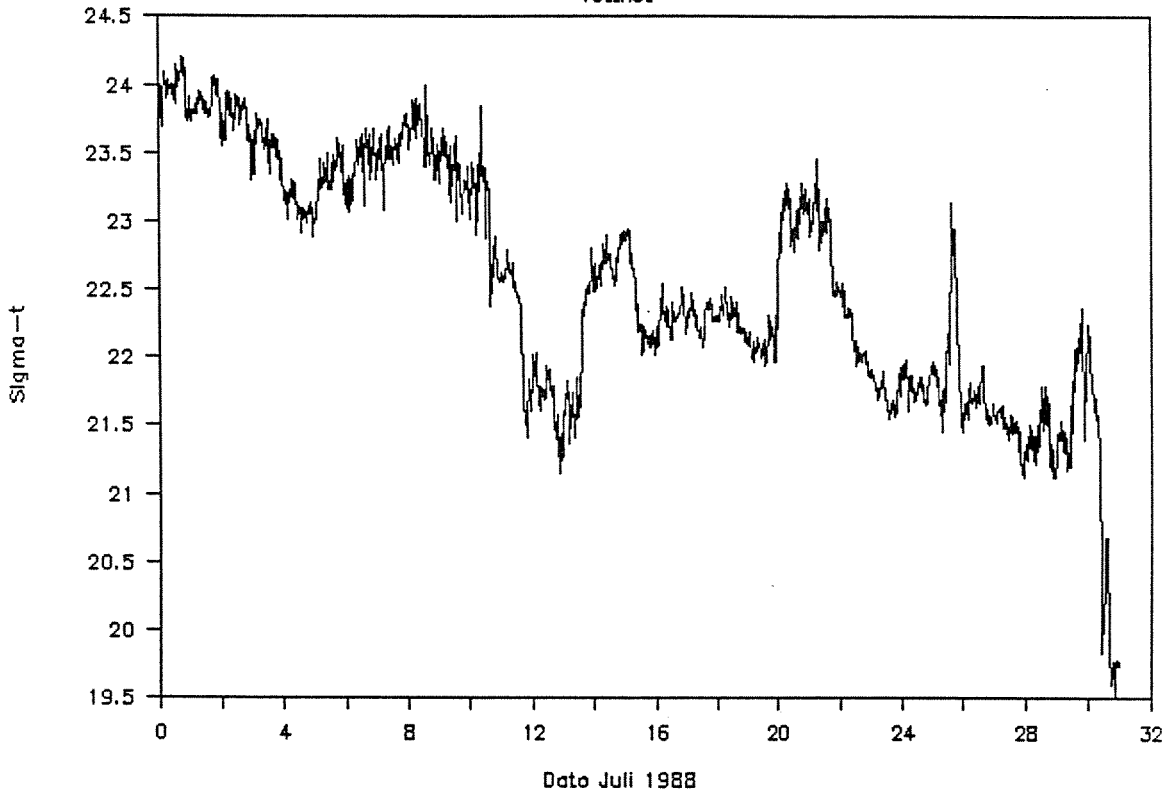
Saltoldighet



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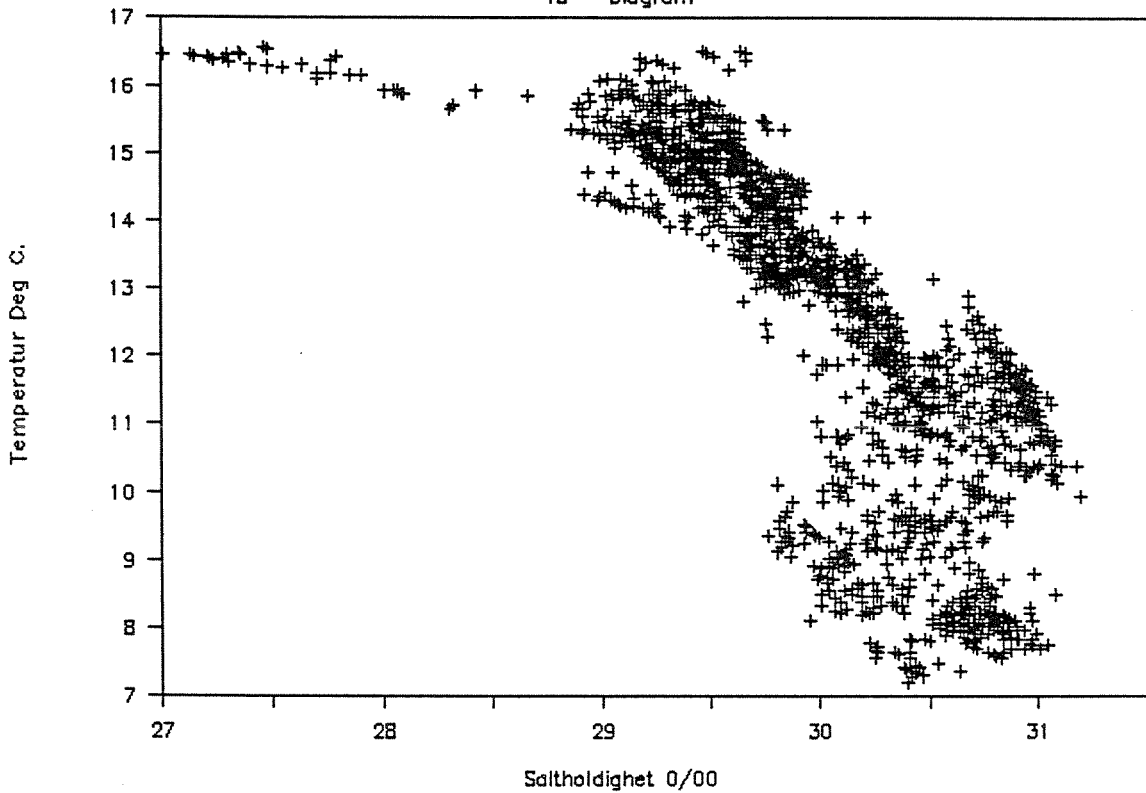
Grisebådarna 30 m.

Tetthet



Grisebådarna 30 m. Juli 1988

TS - Diagram

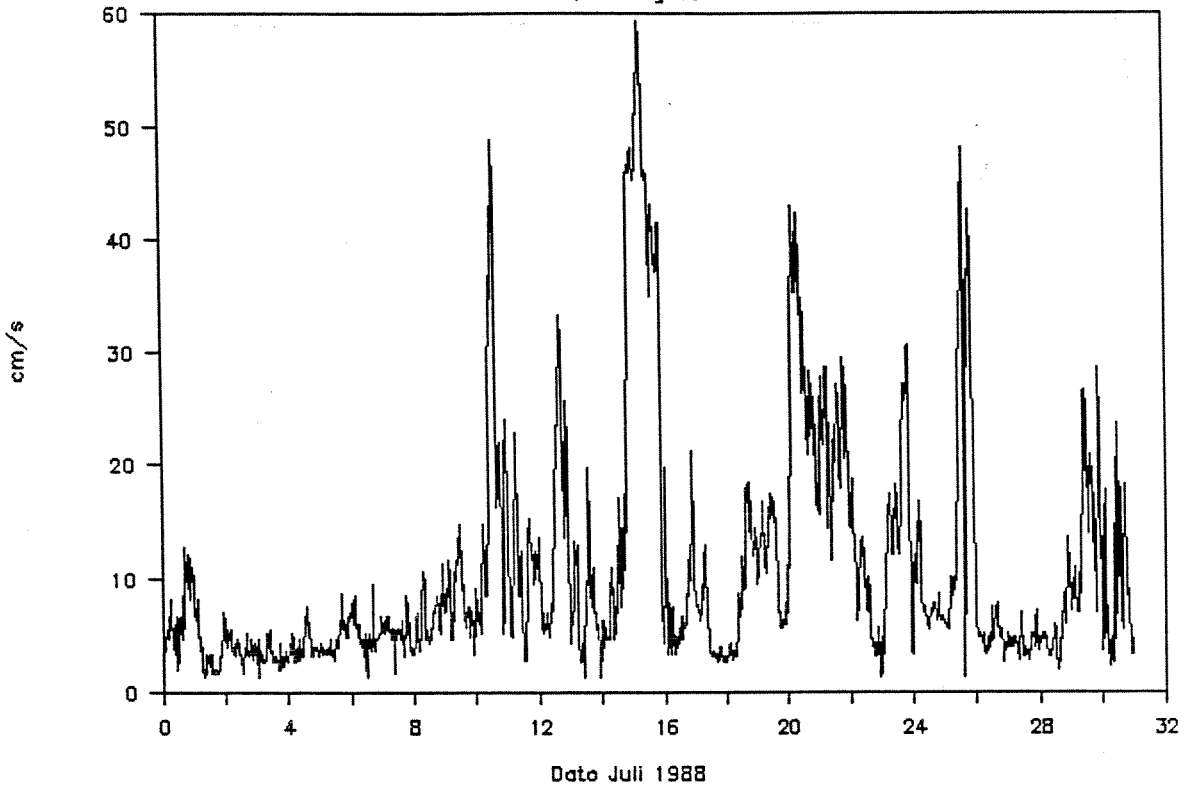


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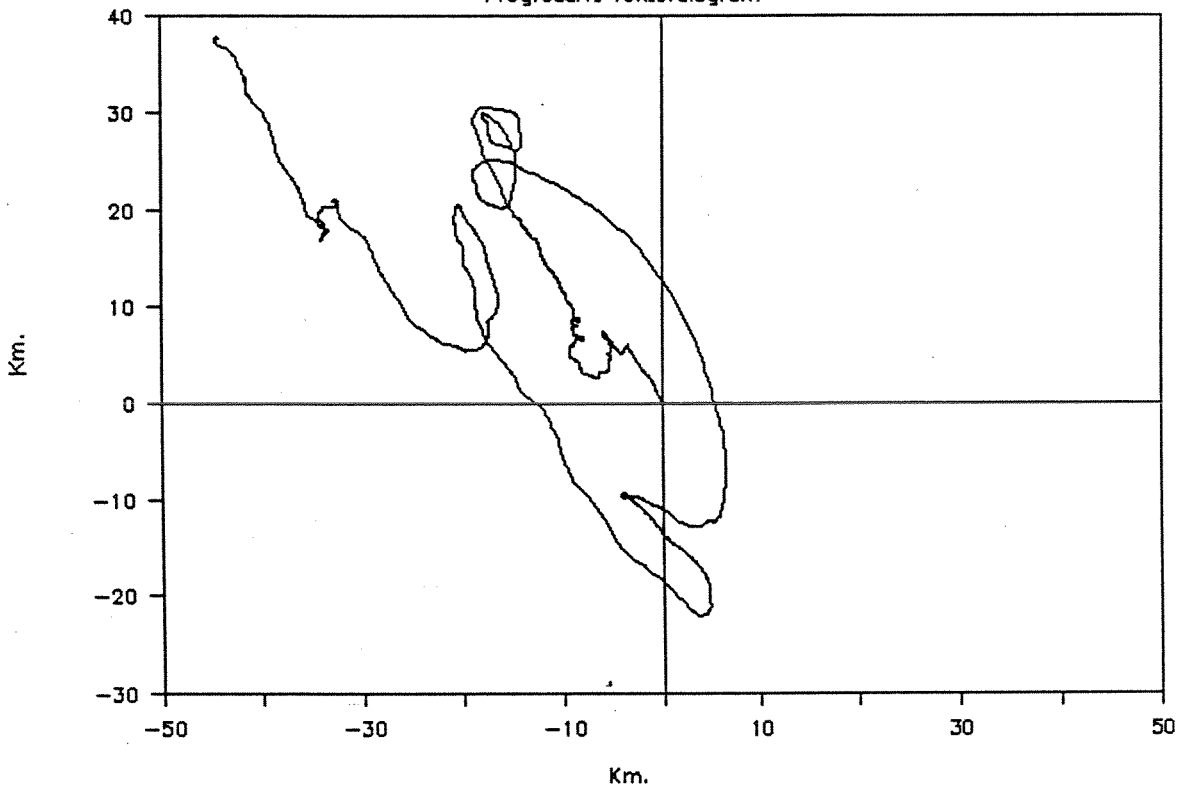
Grisebådarna 30 m.

Strømhastighet



Grisebådarna 30 m. Juli 1988

Progressivt Vektordiagram

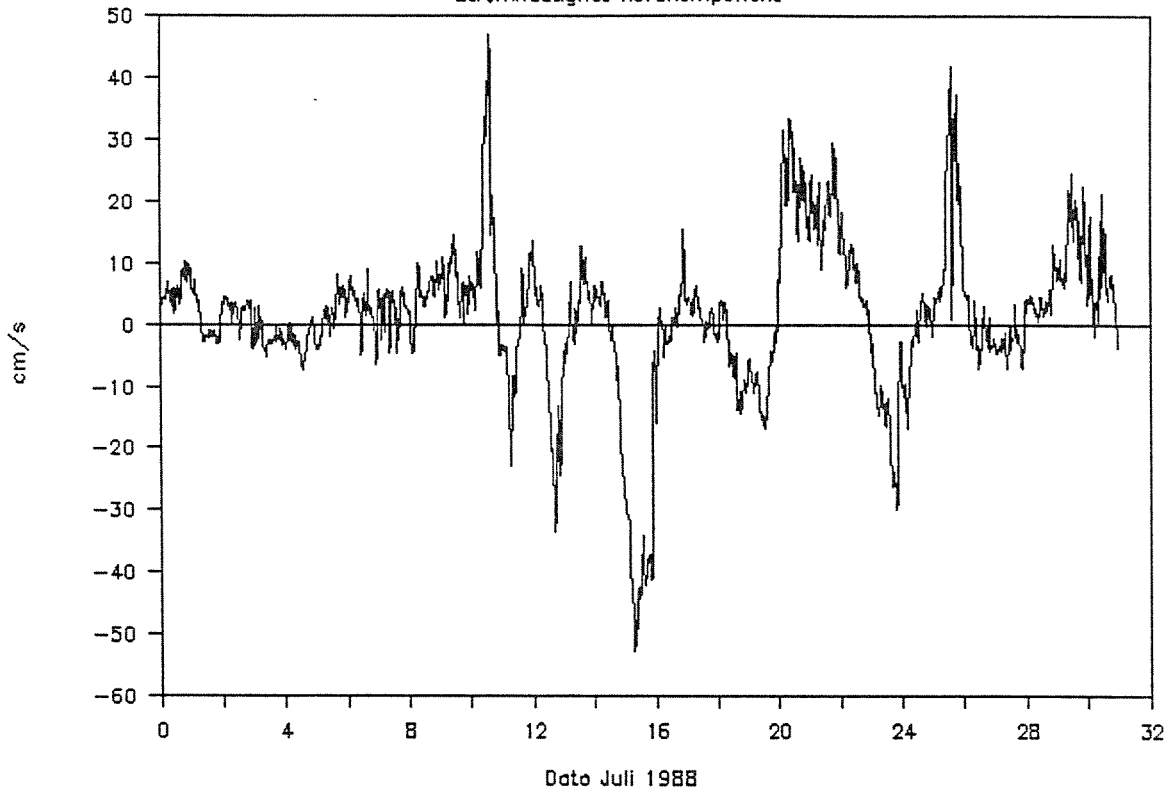


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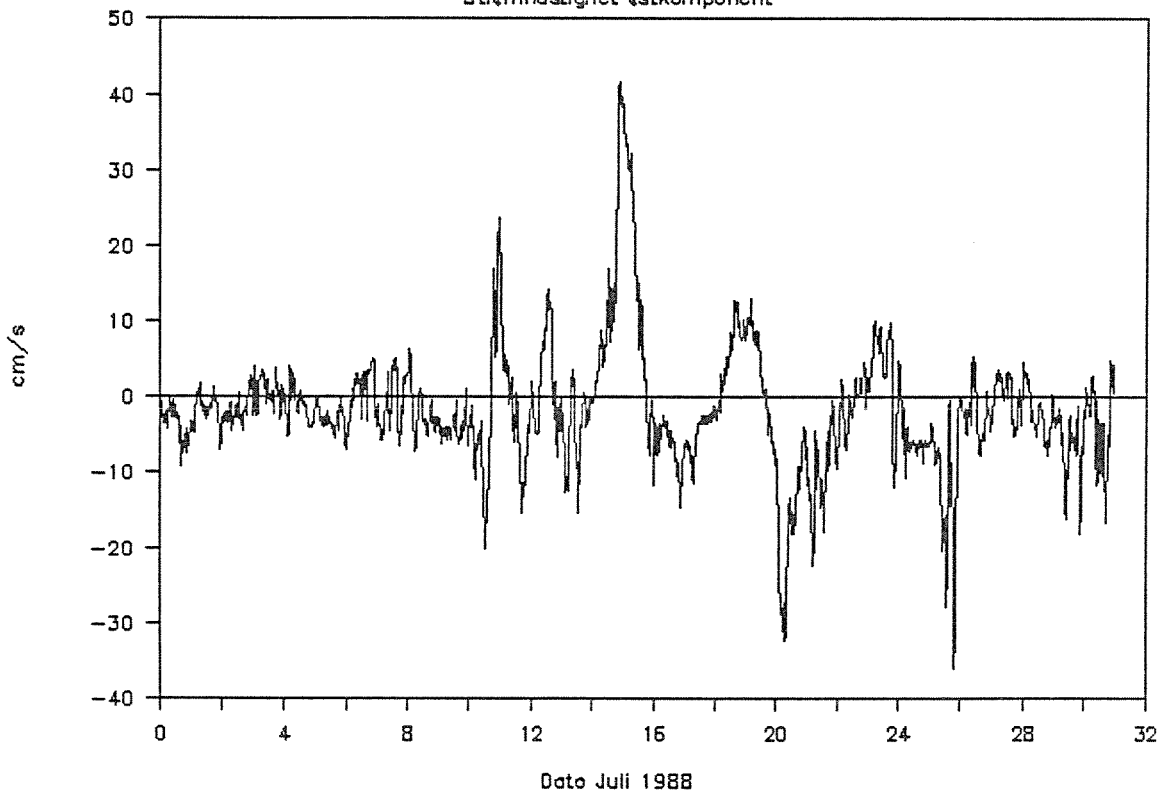
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Strømhastighet nordkomponent



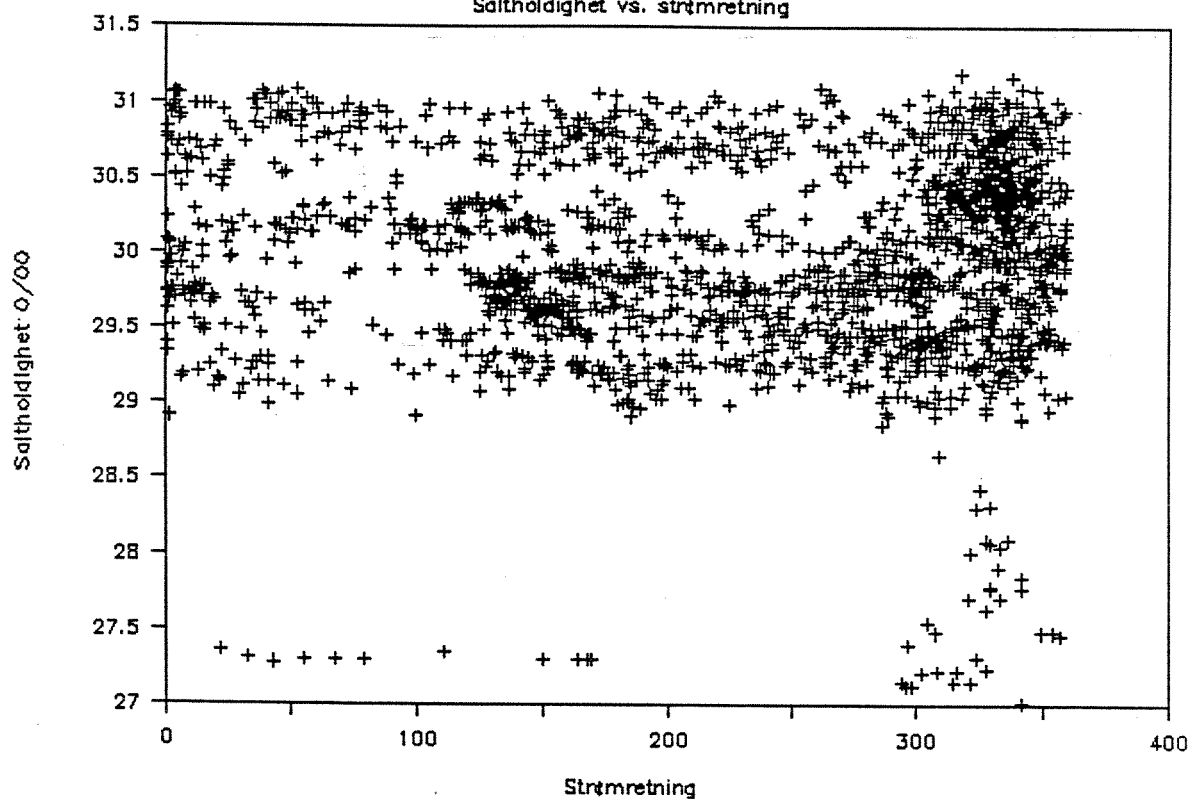
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Strømhastighet østkomponent

**VERITEC**Veritas Offshore Technology
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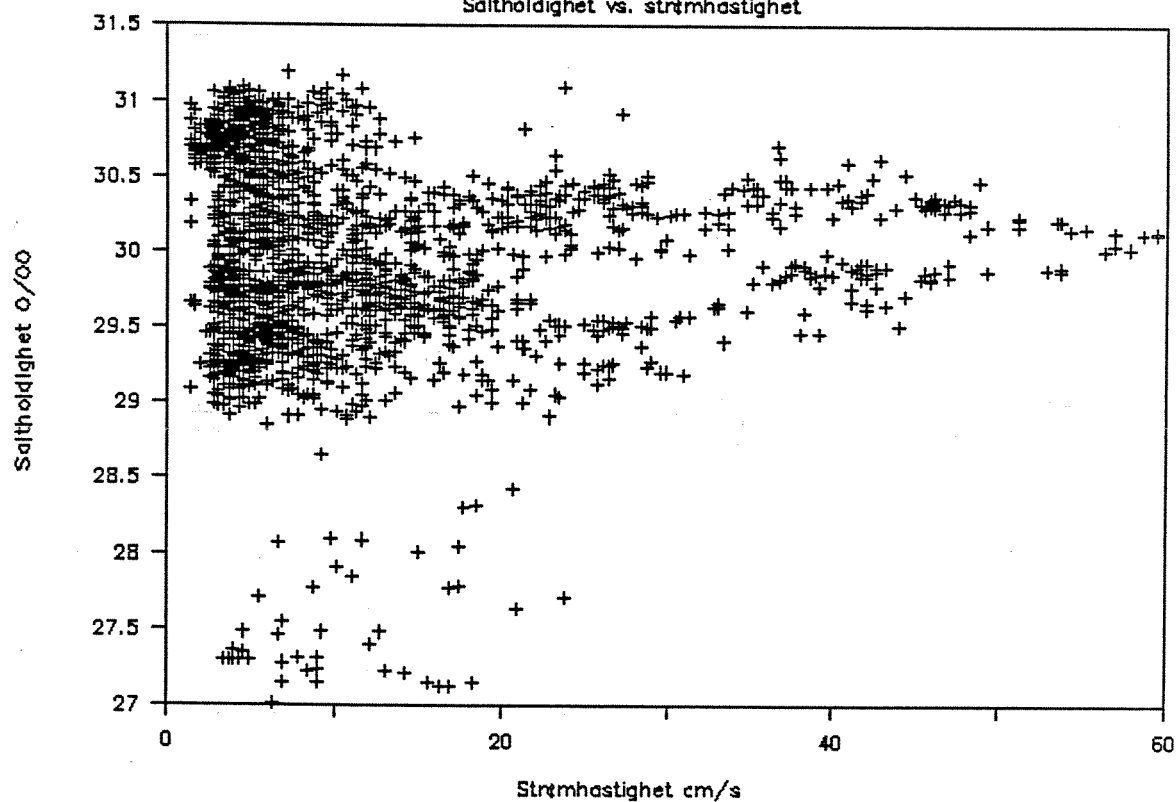
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Saltholdighet vs. strømrøtning



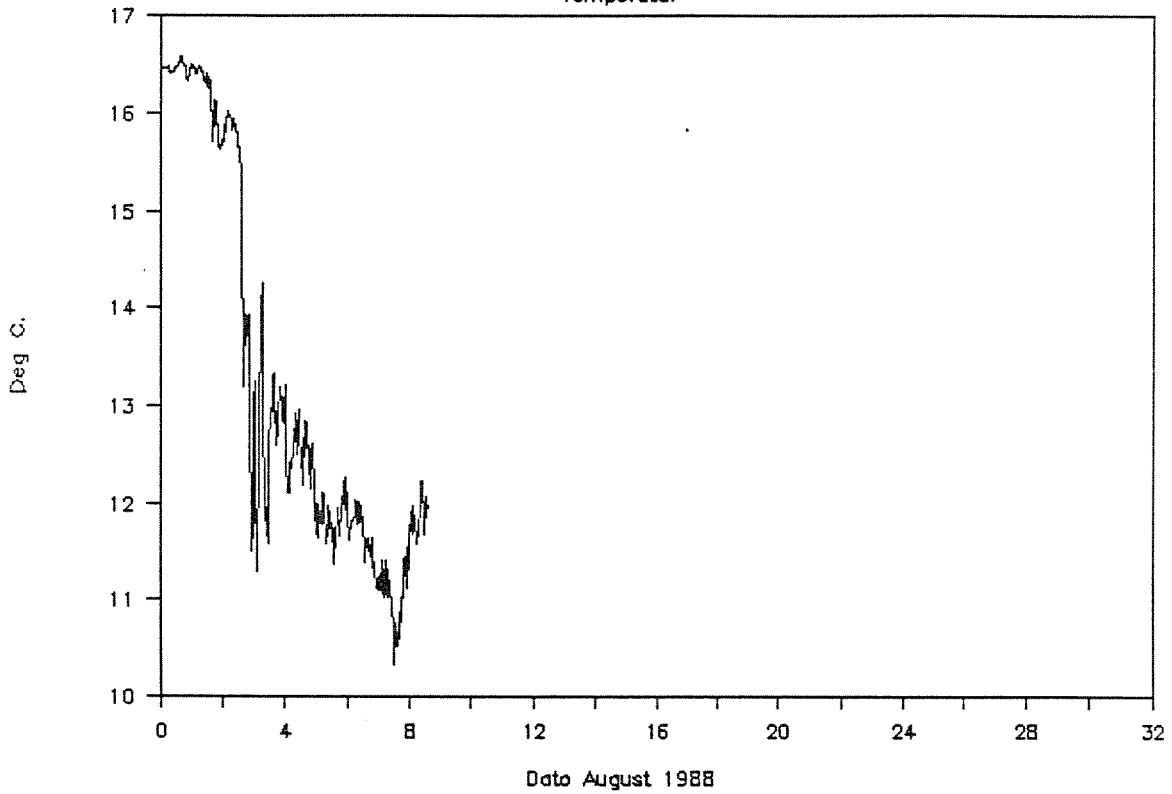
Grisebådarna 30 m. Juli 1988

Saltholdighet vs. strømhastighet

**VERITEC**Veritas Offshore Technology
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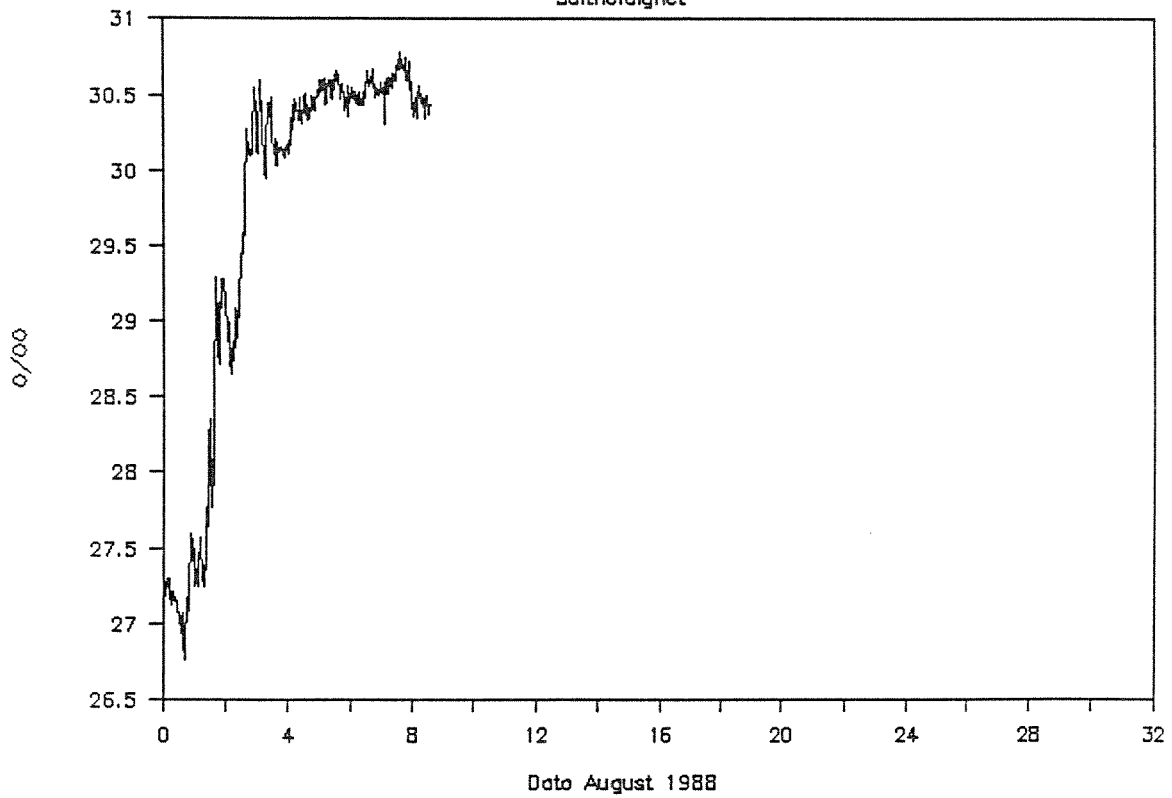
Grisebådarna 30 m.

Temperatur



Grisebådarna 30 m.

Saltholdighet

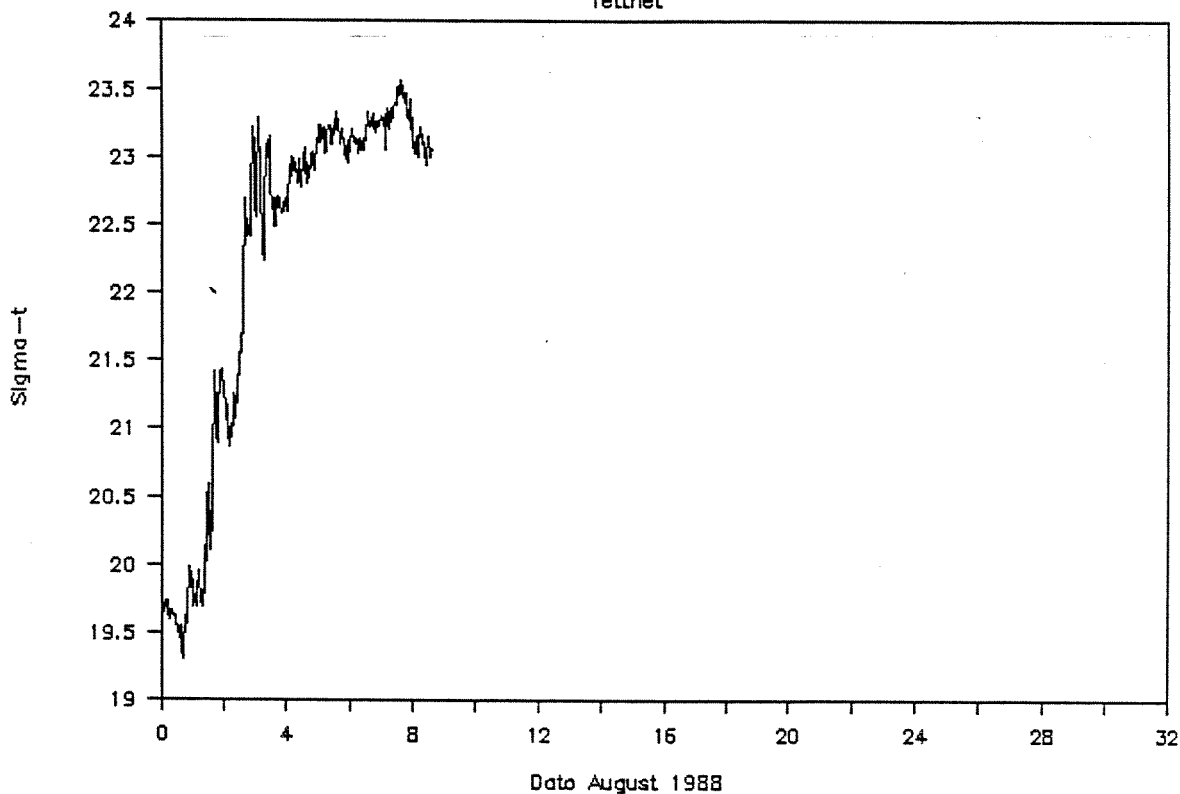


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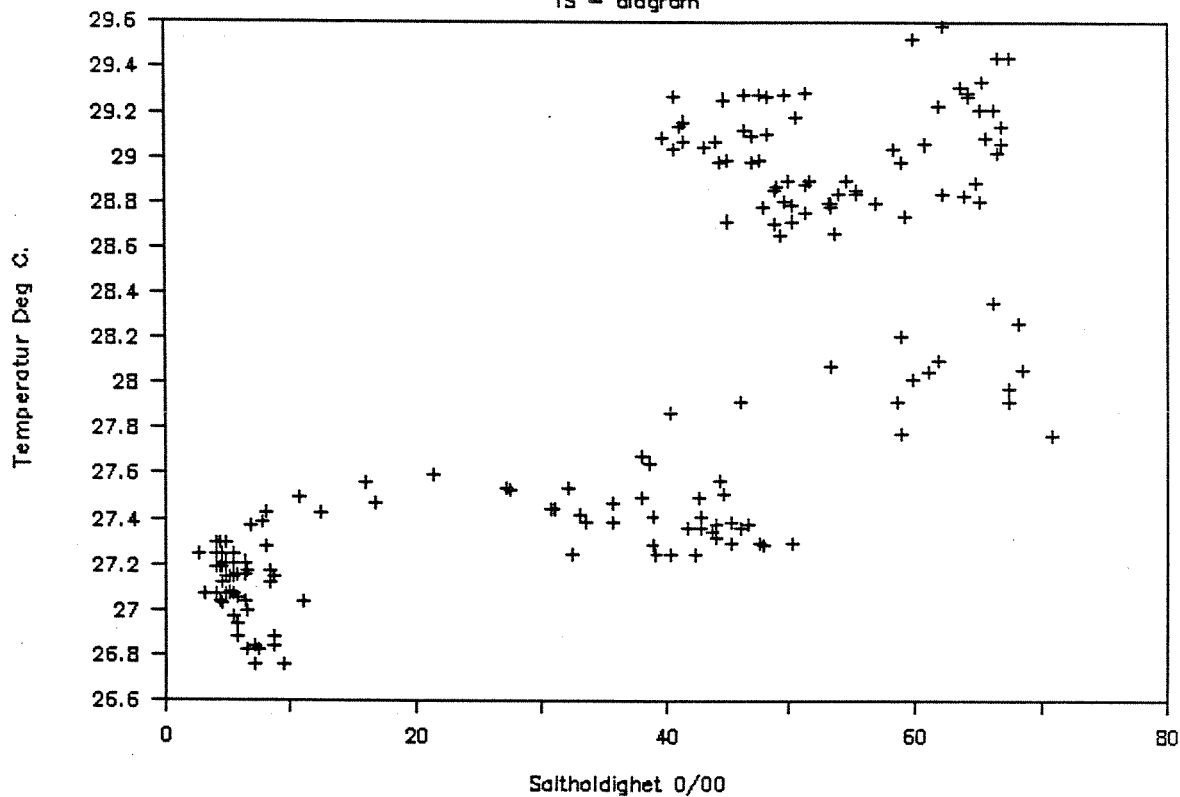
Grisebådarna 30 m.

Tetthet



Grisebådarna 30 m. August 1988

TS - diagram

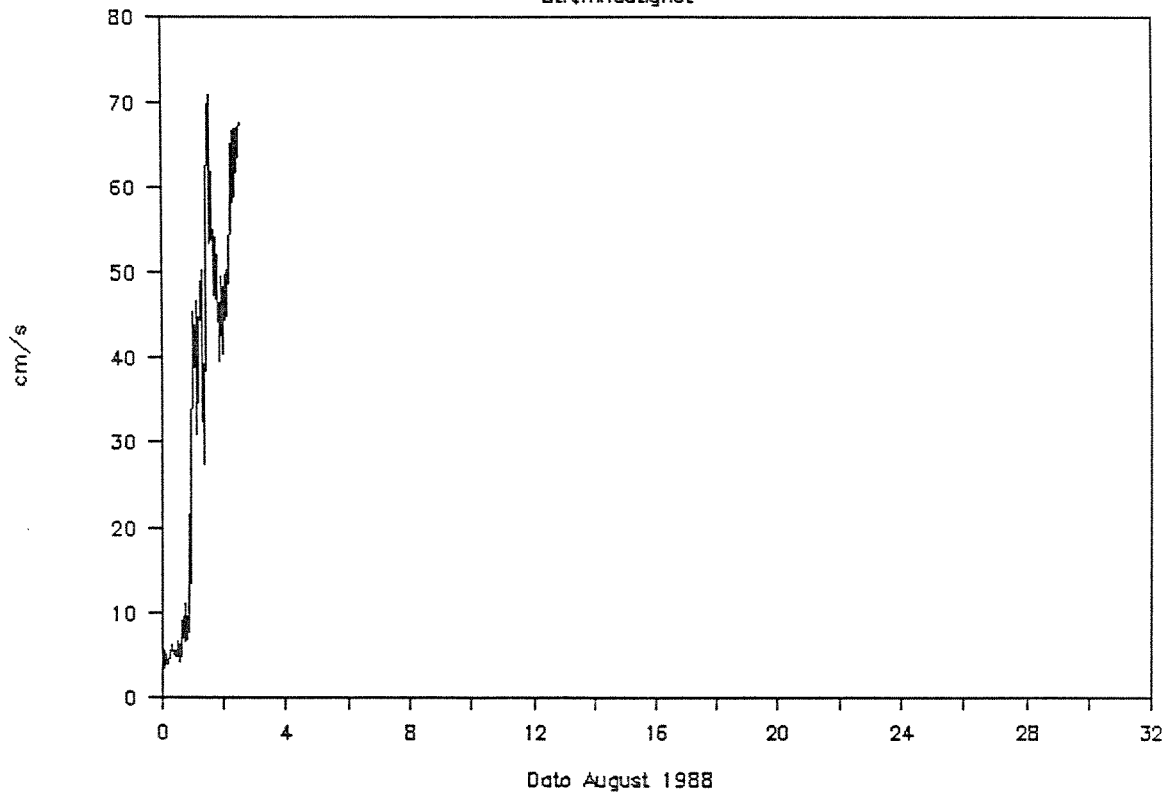


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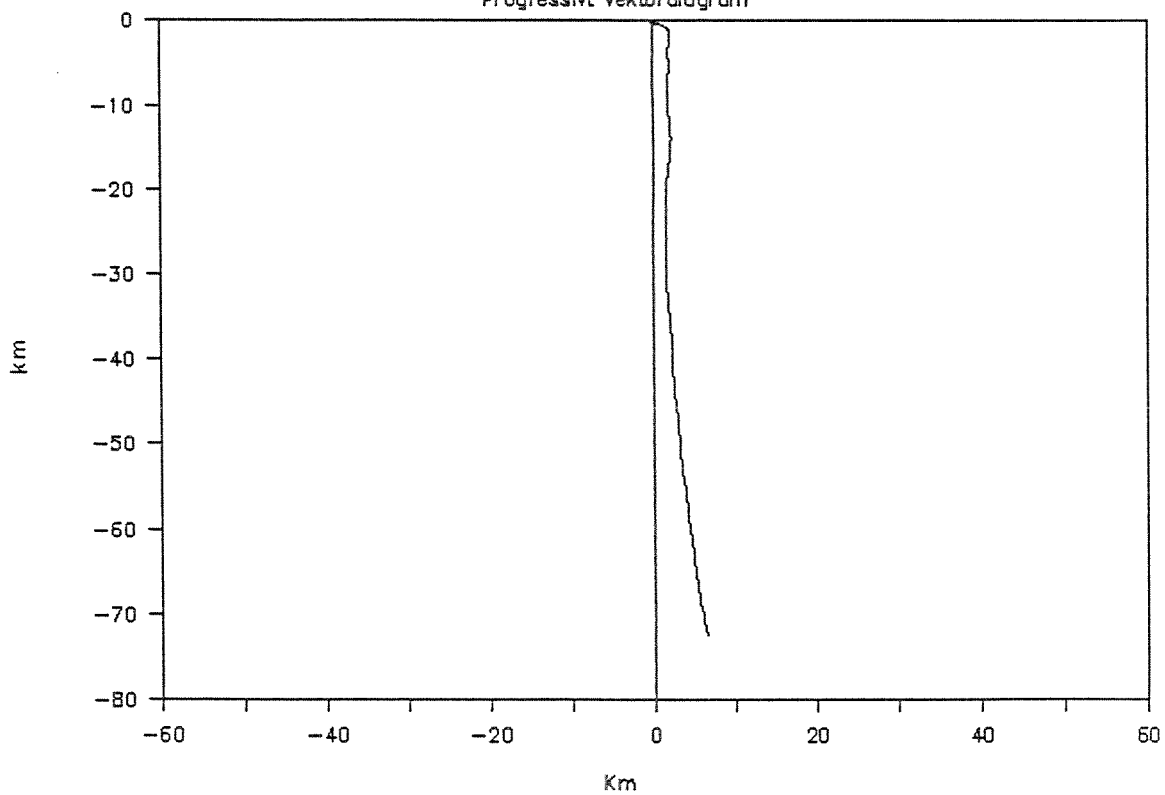
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Strømhastighet



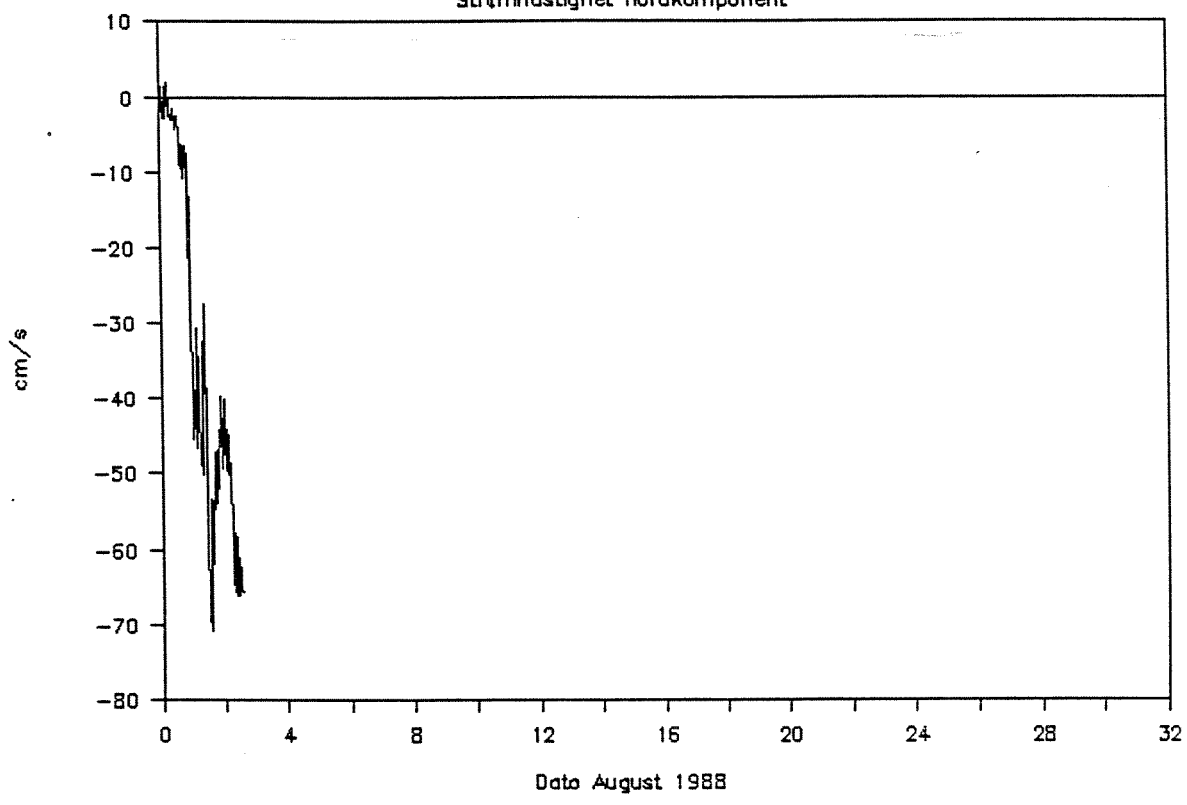
Grisebådarna 30 m. August 1988

Progressivt vektordiagram

**VERITEC**Veritas Offshore Technology
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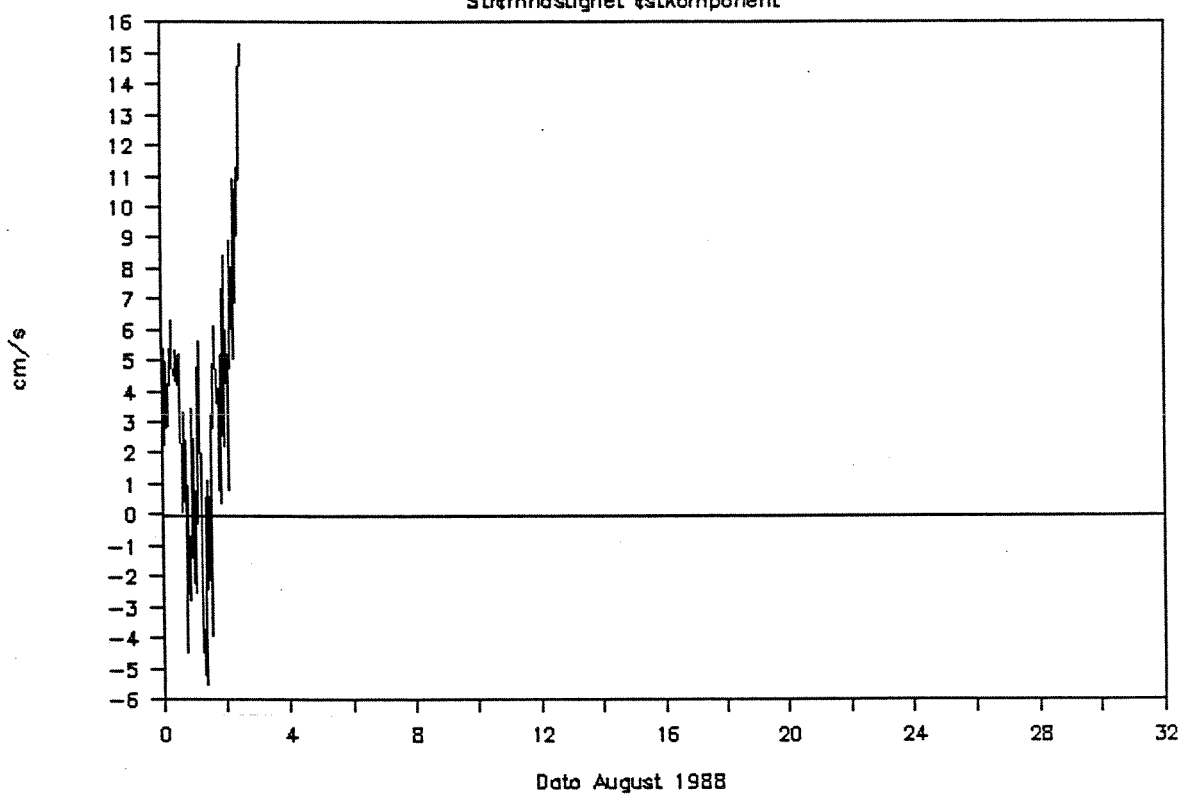
Grisebådarna 30 m.

Strømhastighet nordkomponent



Grisebådarna 30 m.

Strømhastighet østkomponent

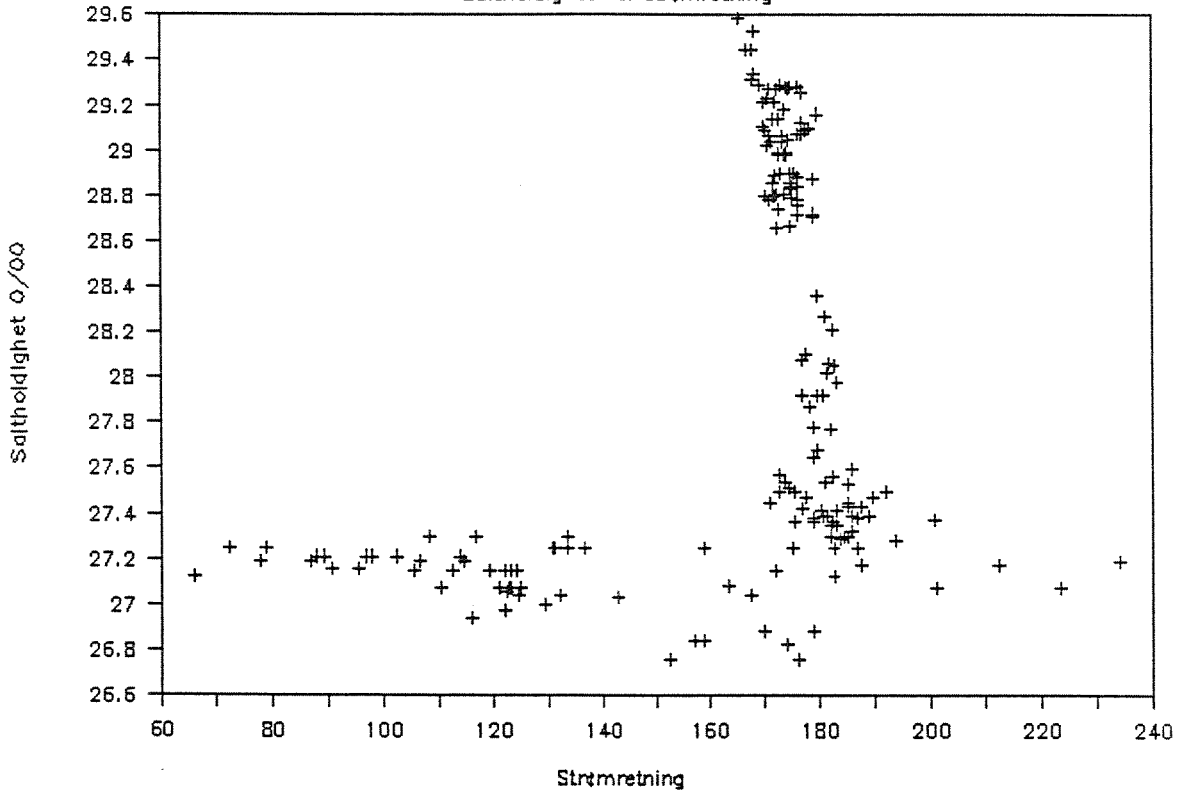


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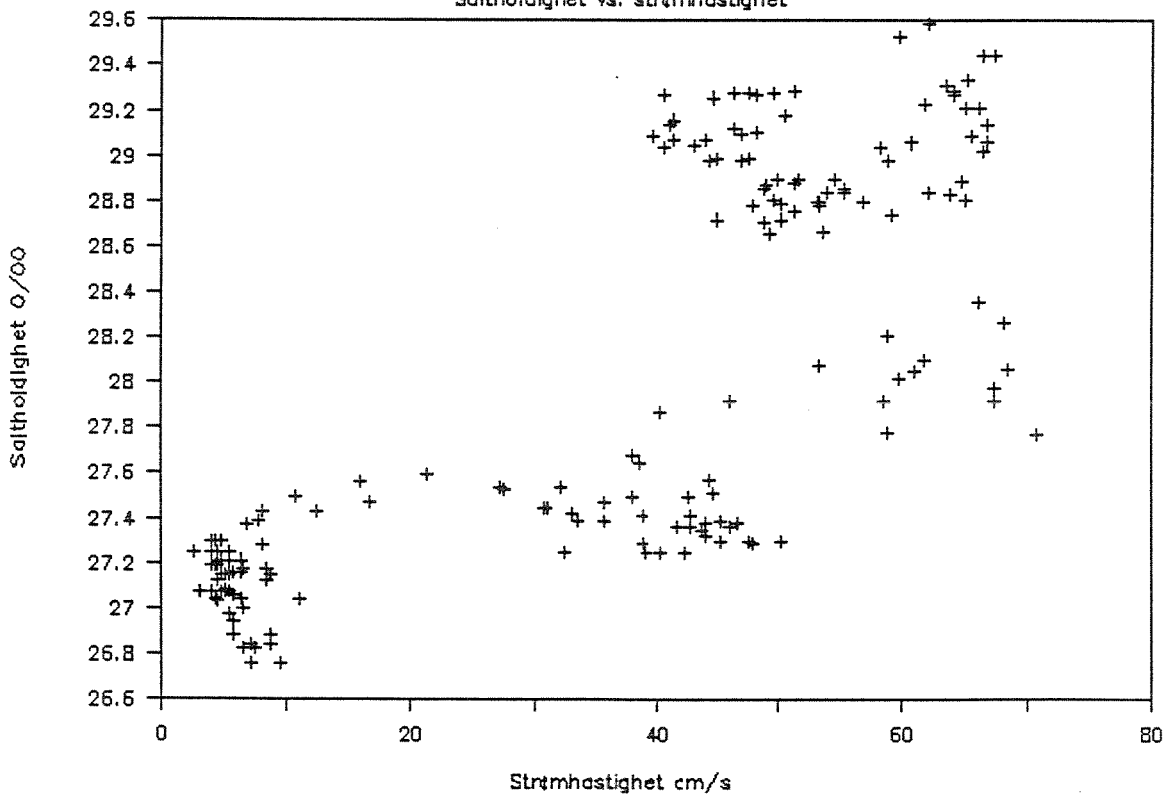
Grisebådarna 30 m. August 1988

Saltholdighet vs. strømrøtning



Grisebådarna 30 m. August 1988

Saltholdighet vs. strømhastighet

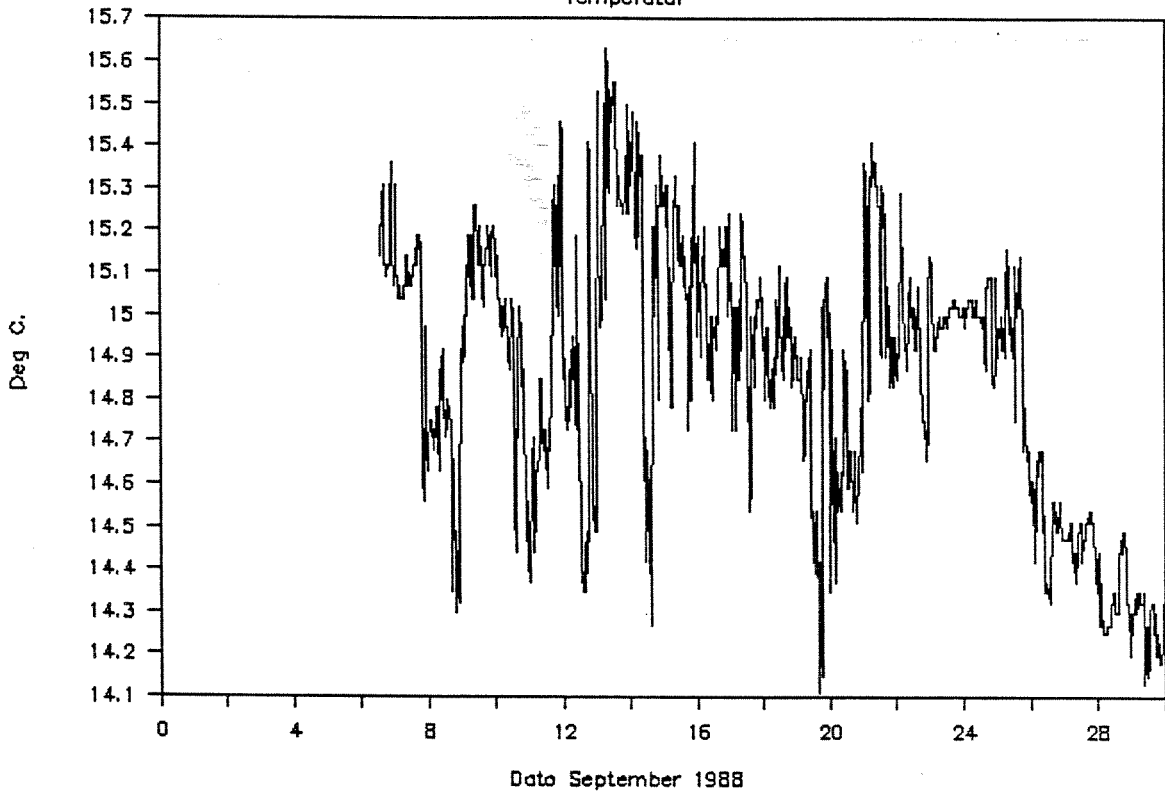


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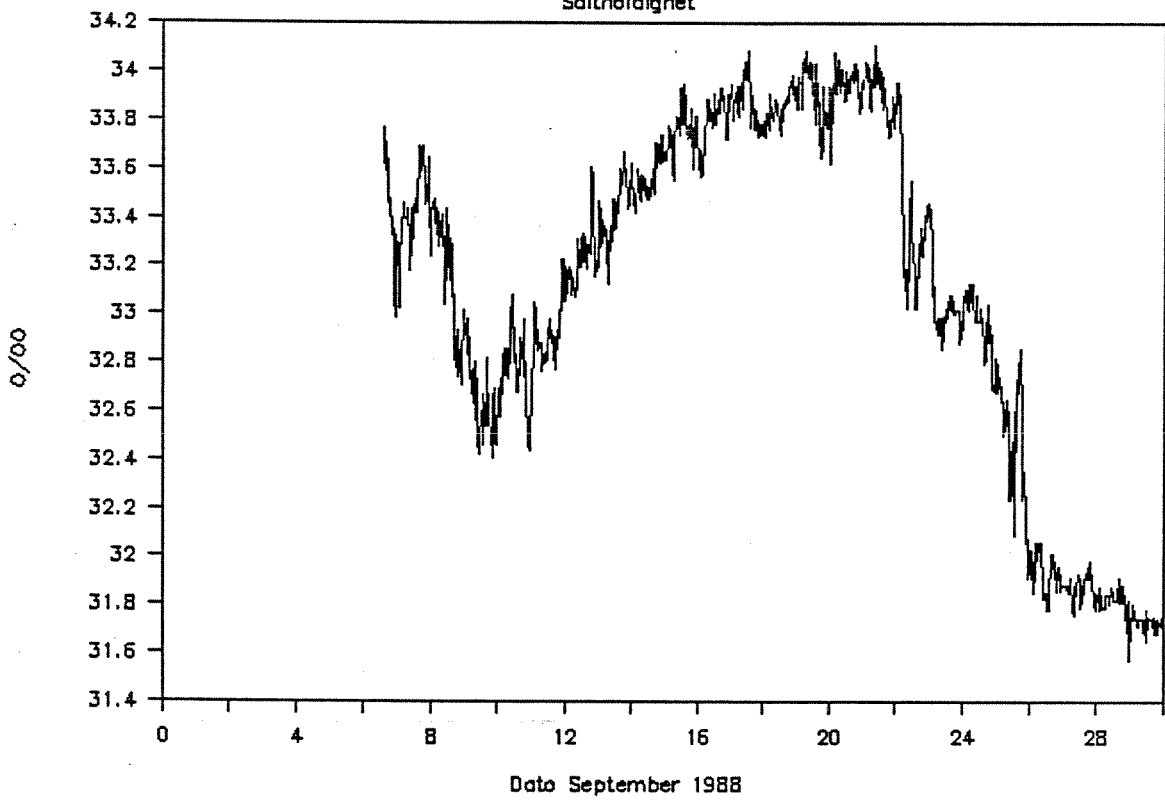
Grisebådarna 30 m.

Temperatur



Grisebådarna 30 m.

Saltholdighet

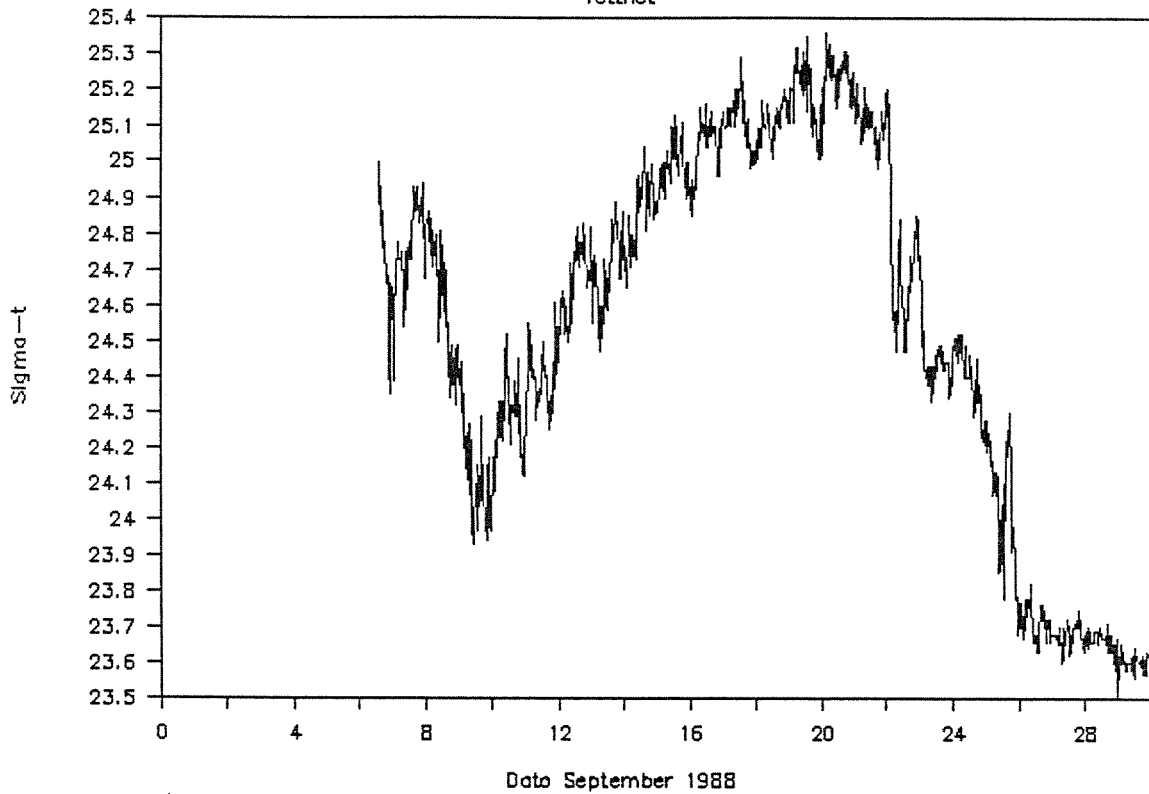


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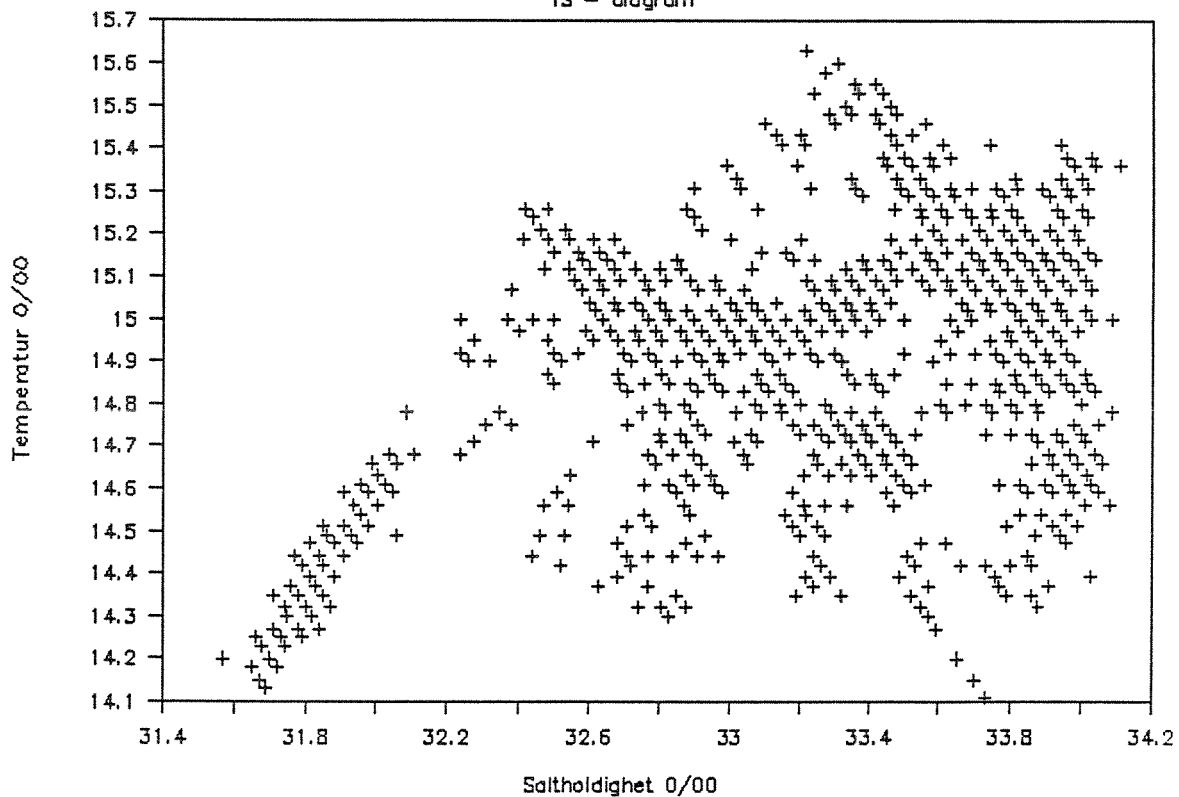
Grisebådarna 30 m.

Tetthet



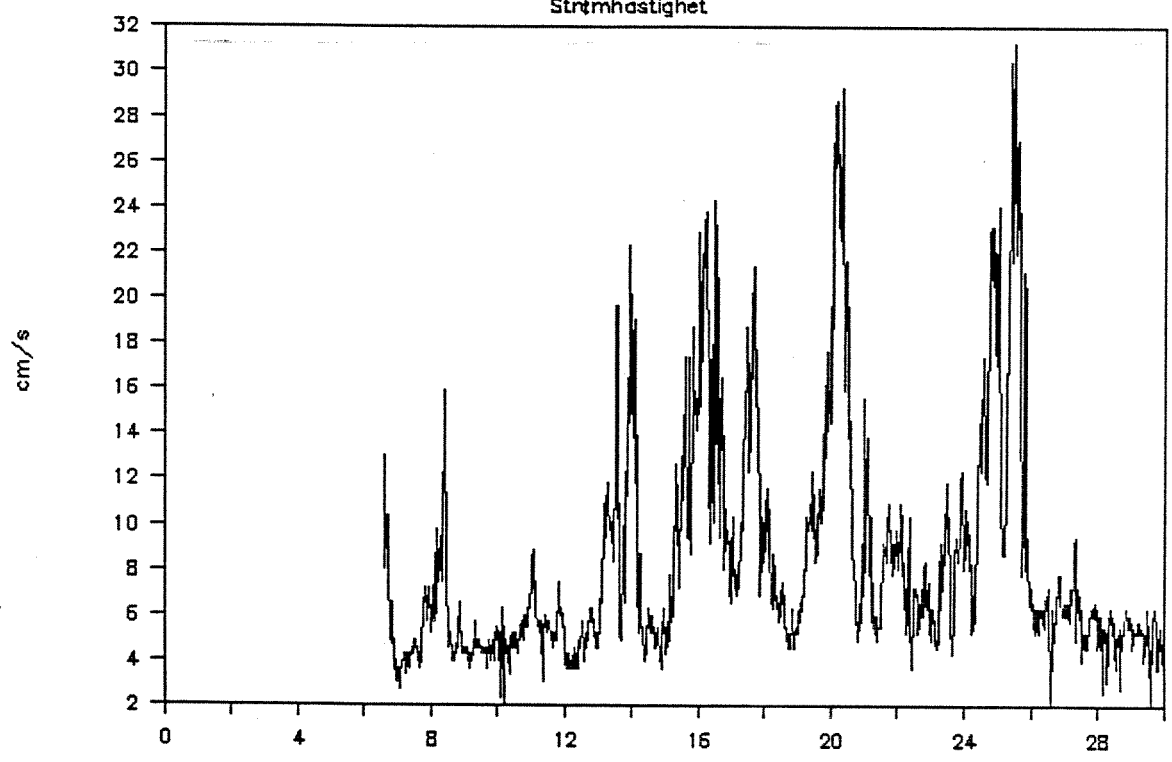
Grisebådarna 30 m. September 1988

TS - diagram

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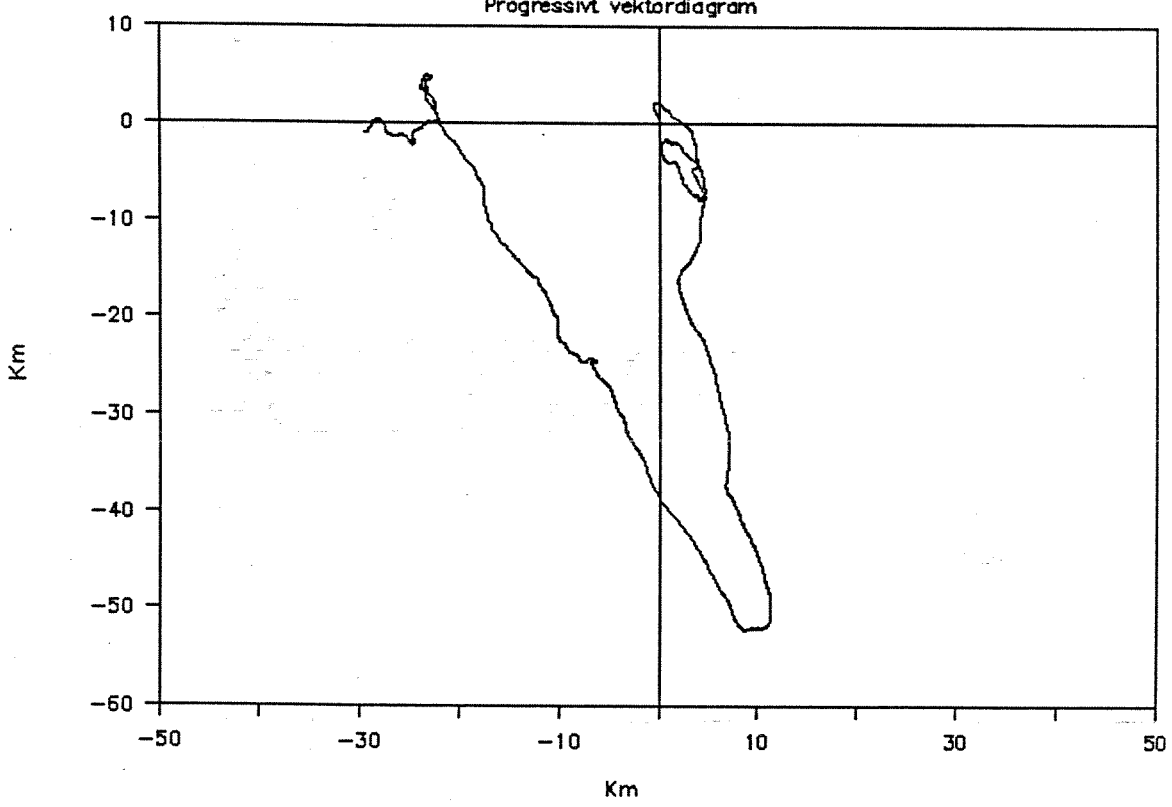
Grisebådarna 30 m.

Strømhastighet



Grisebådarna 30 m. September 1988

Progressivt vektordiagram

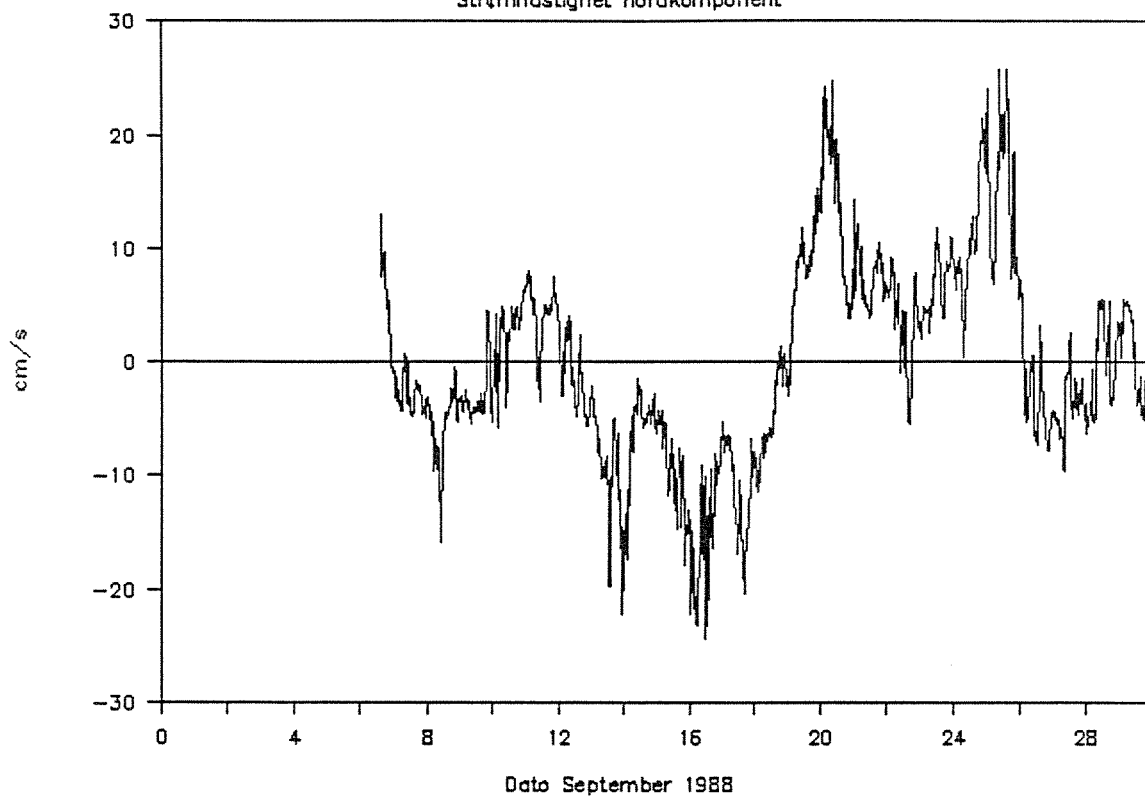


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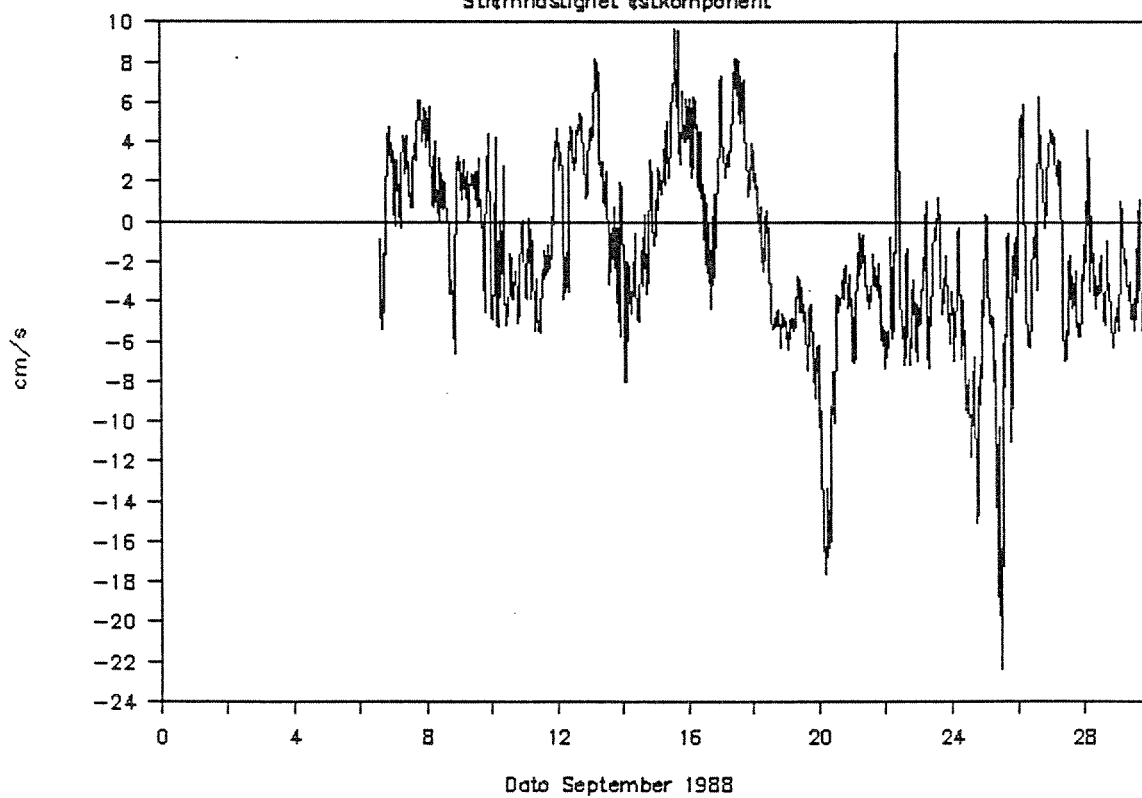
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Strømhastighet nordkomponent



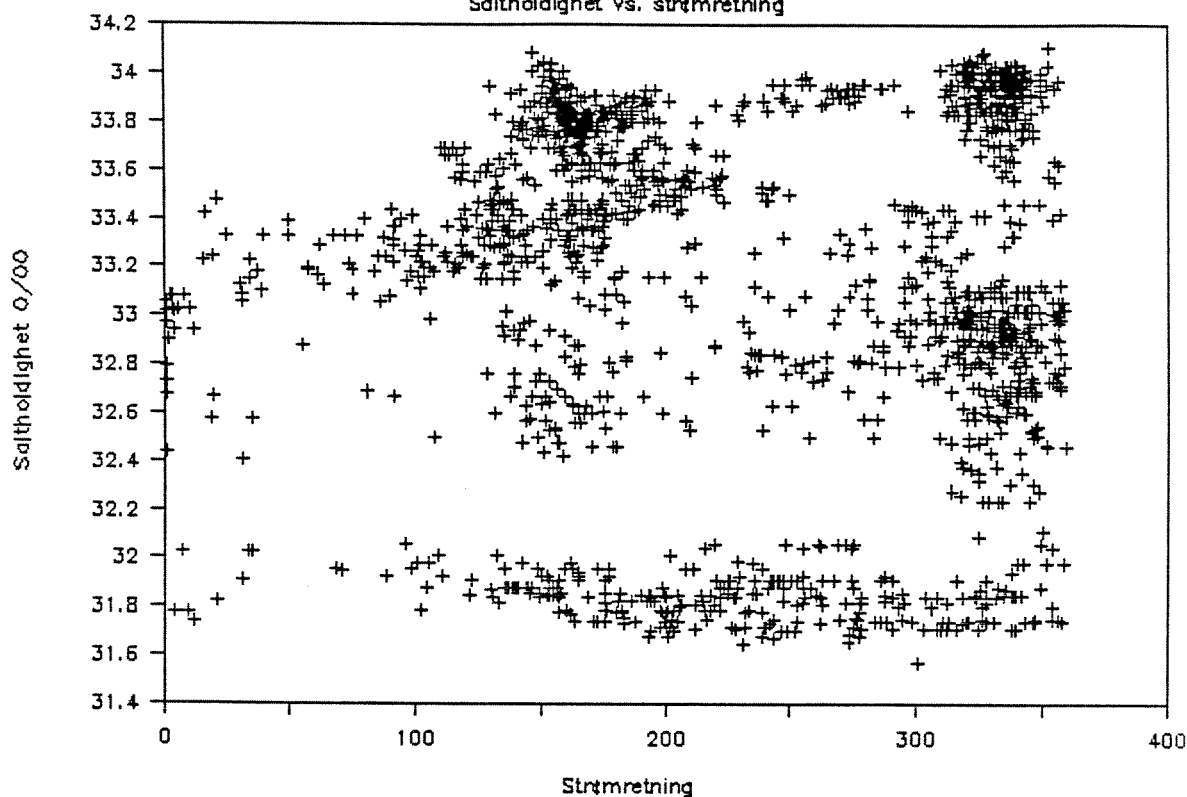
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Strømhastighet østkomponent

**VERITEC**Veritas Offshore Technology
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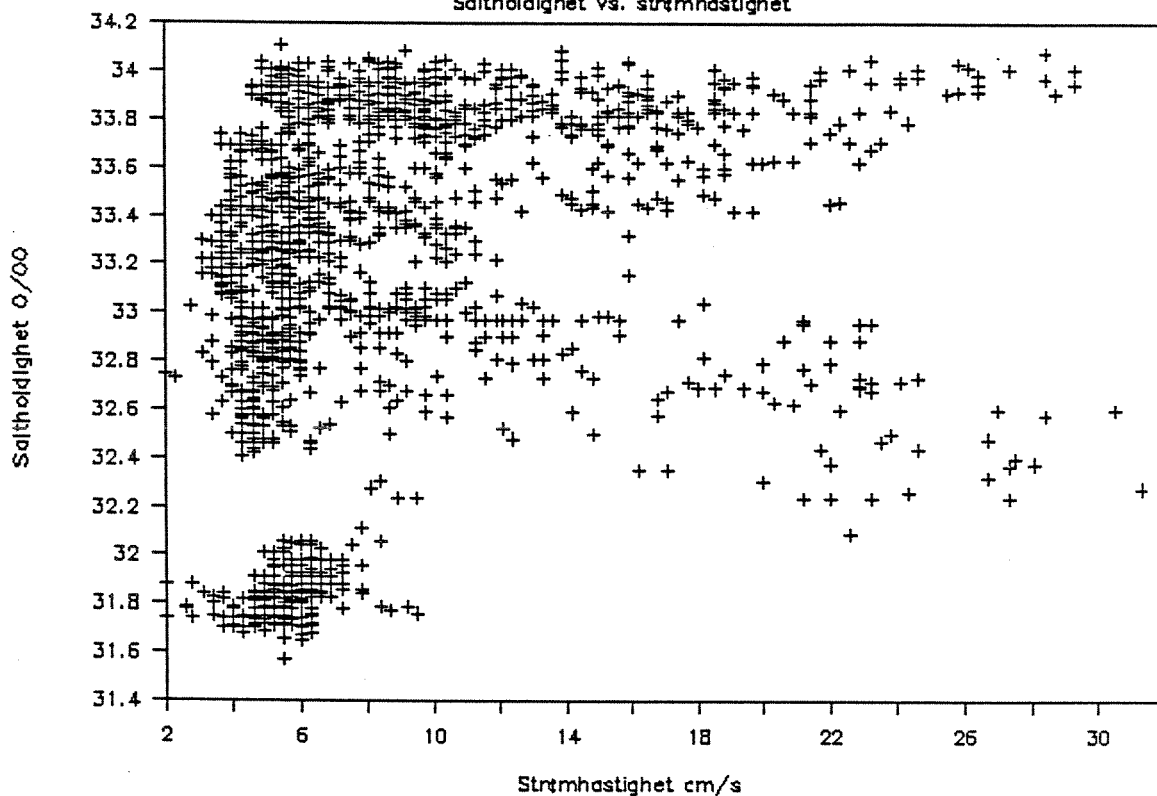
Grisebådarna 30 m. September 1988

Saltholdighet vs. strømretning



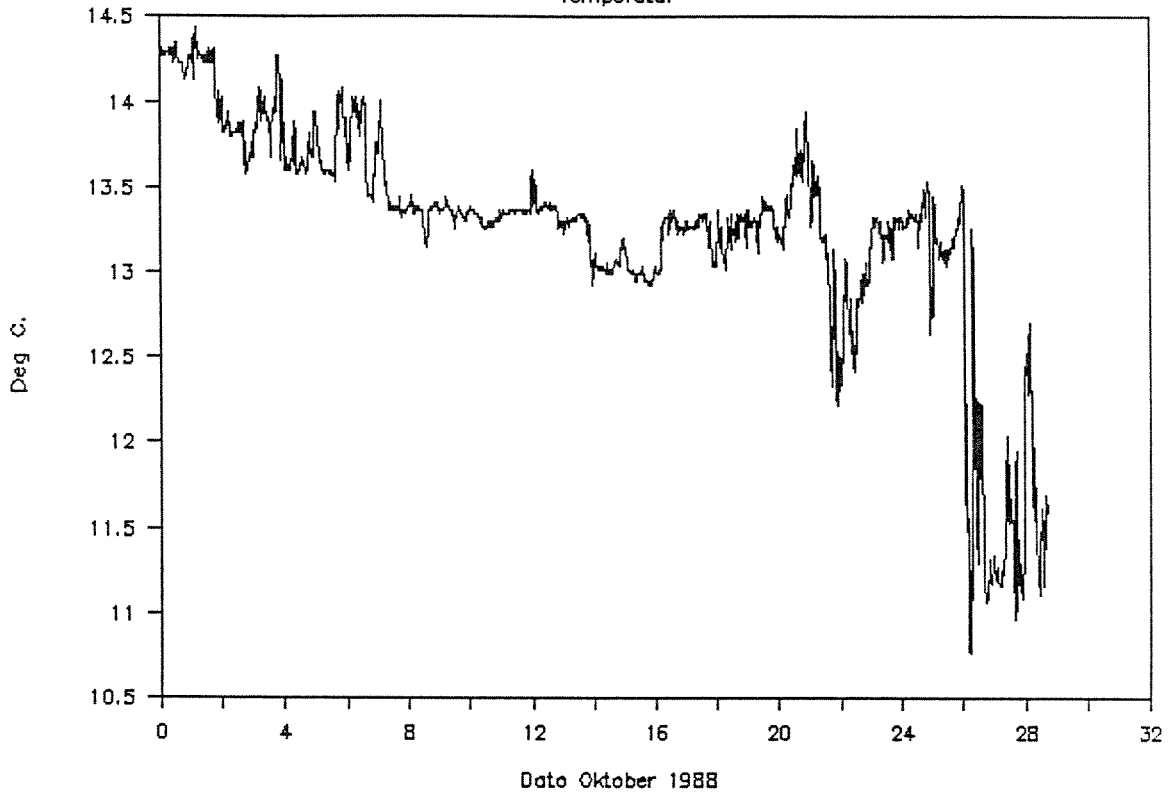
Grisebådarna 30 m. September 1988

Saltholdighet vs. strømhastighet

**VERITEC**Veritas Offshore Technology
and Services A/S

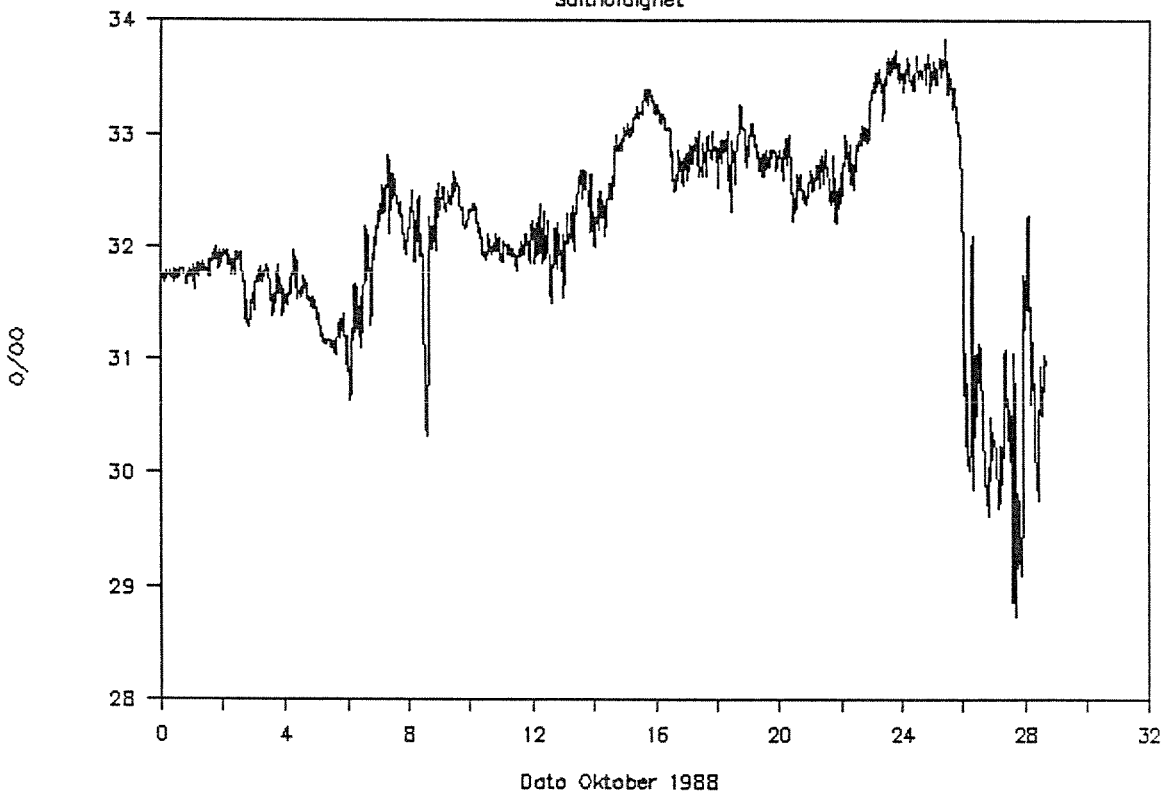
Grisebådarna 30 m.

Temperatur



Grisebådarna 30 m.

Saltholdighet

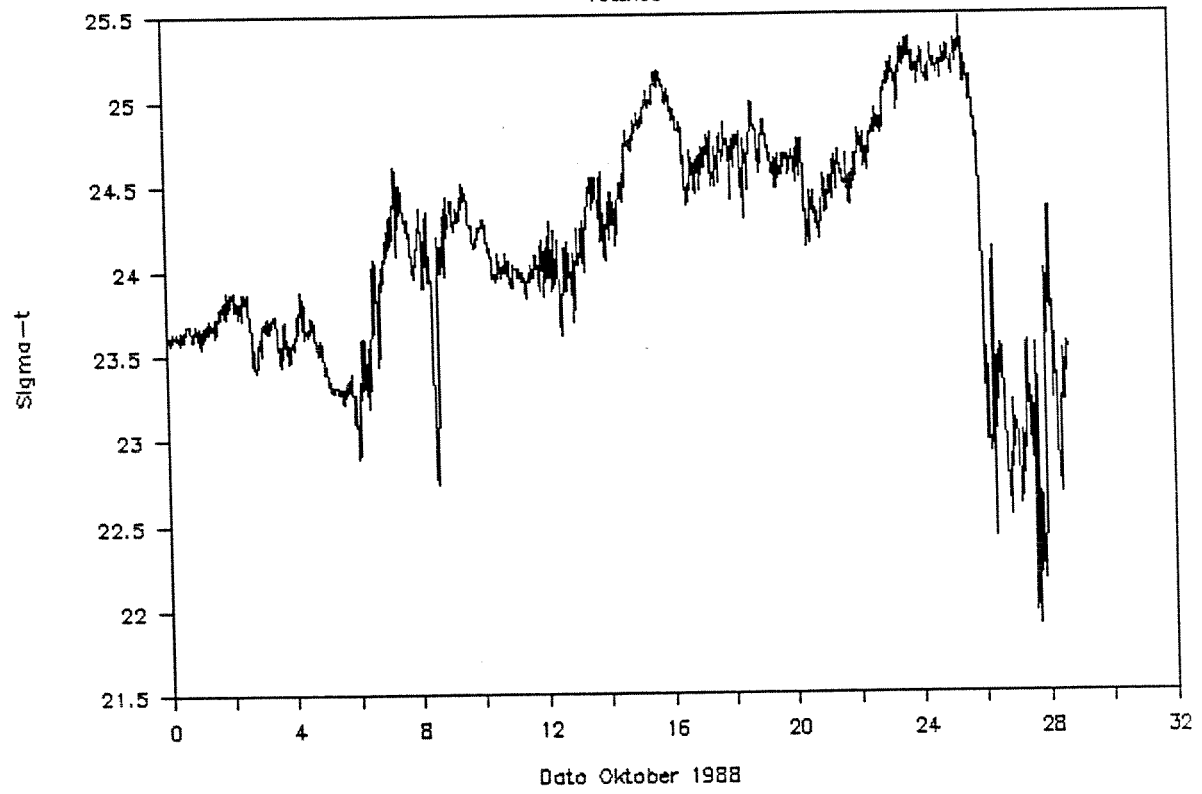


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and Services A/S

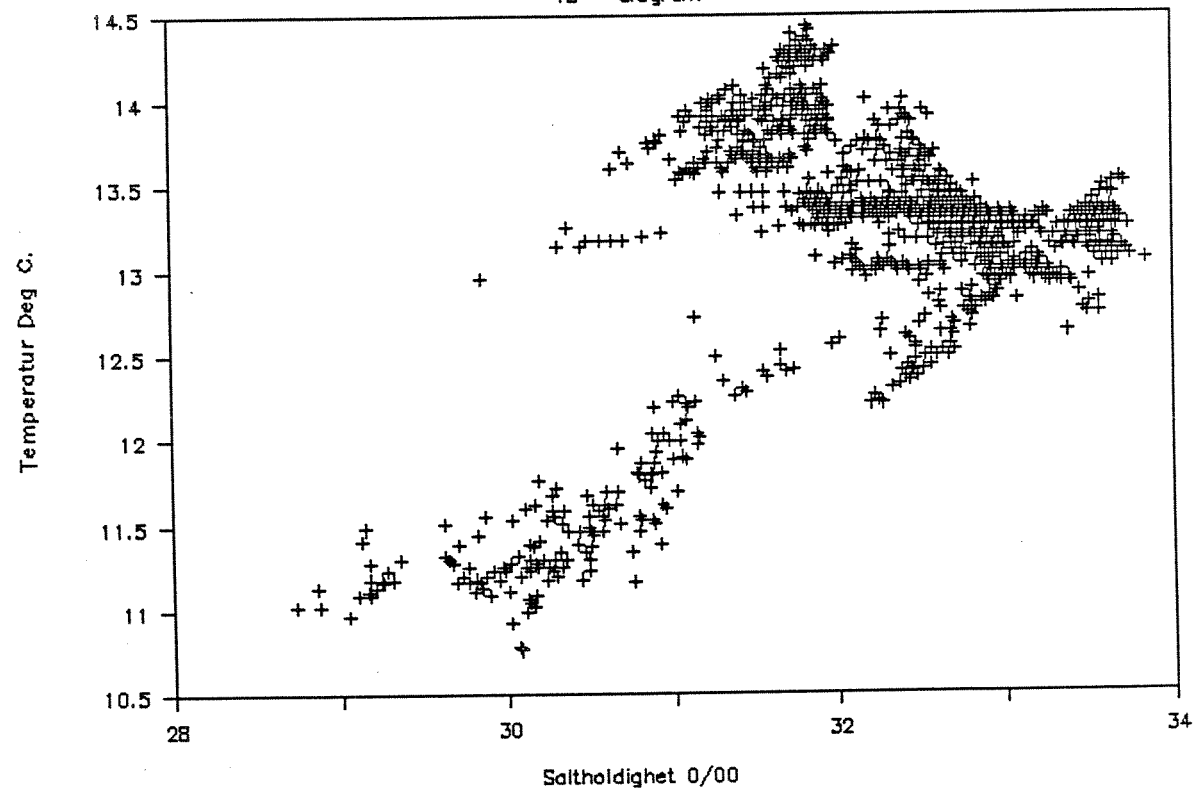
Grisebådarna 30 m.

Tetthet



Grisebådarna 30 m. Oktober 1988

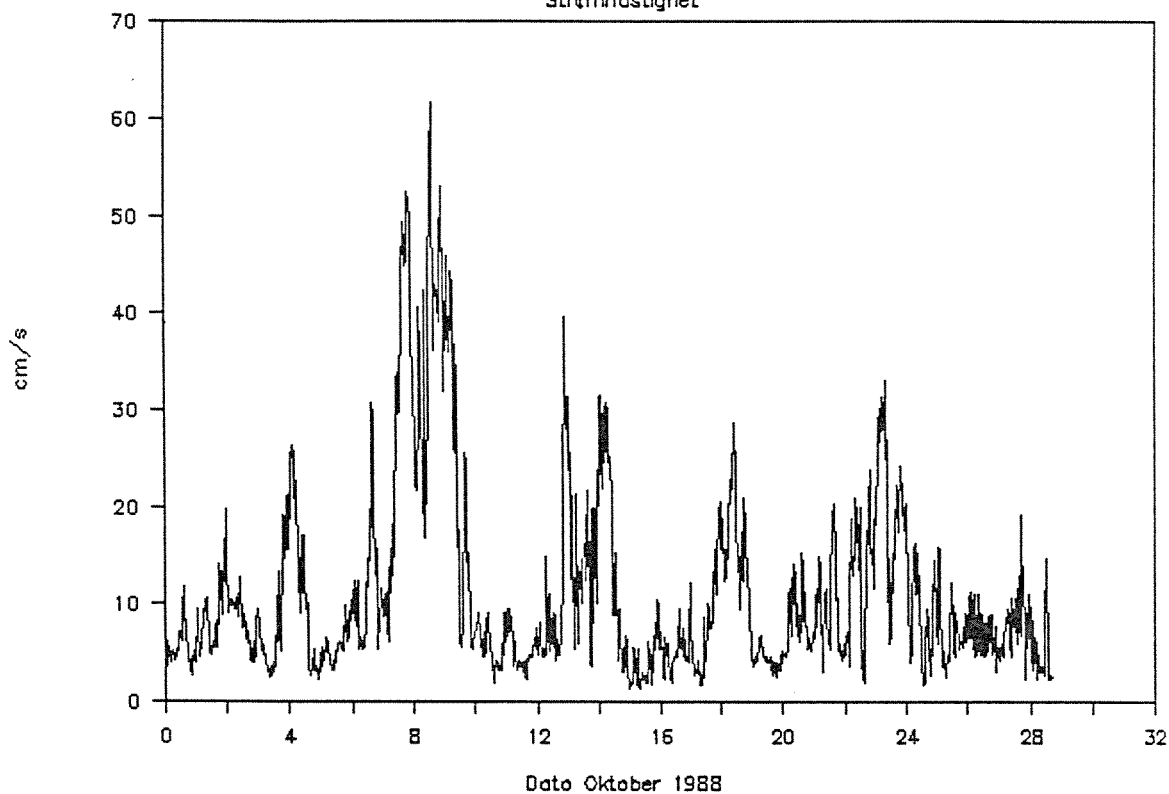
TS - diagram



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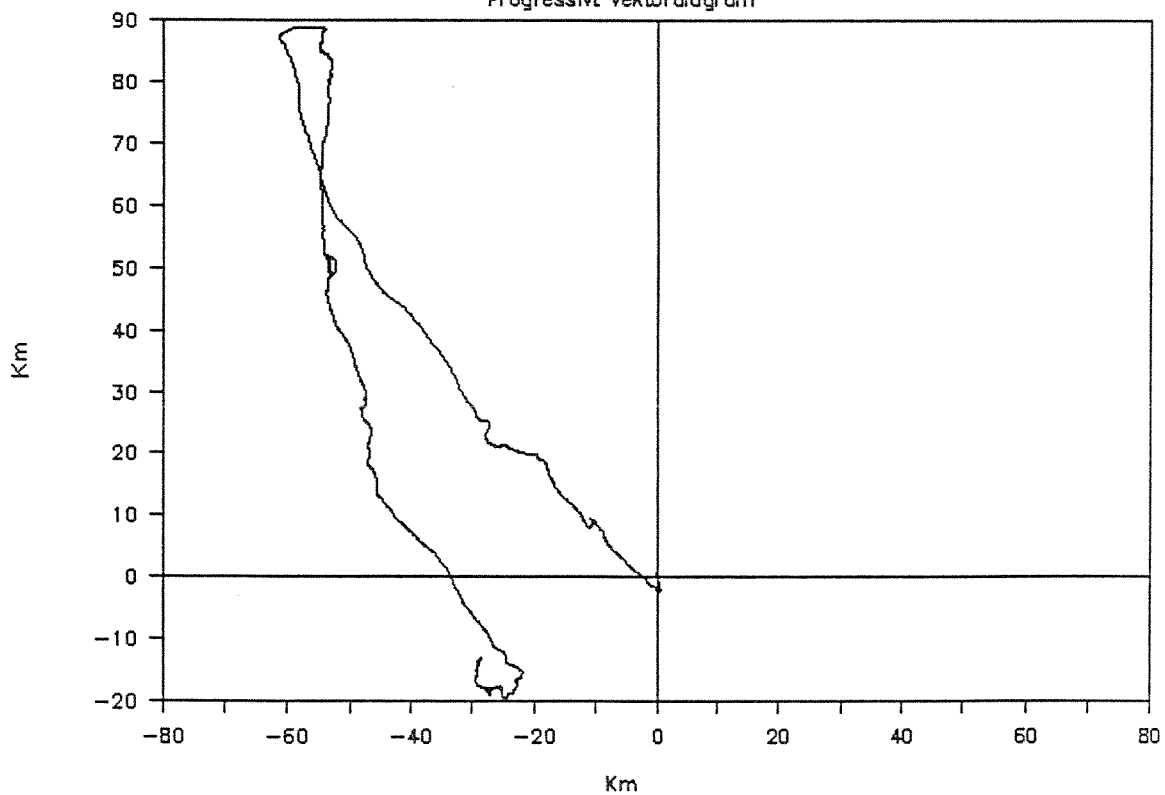
Grisebådarna 30 m.

Strømhastighet



Grisebådarna 30 m. Oktober 1988

Progressivt vektordiagram

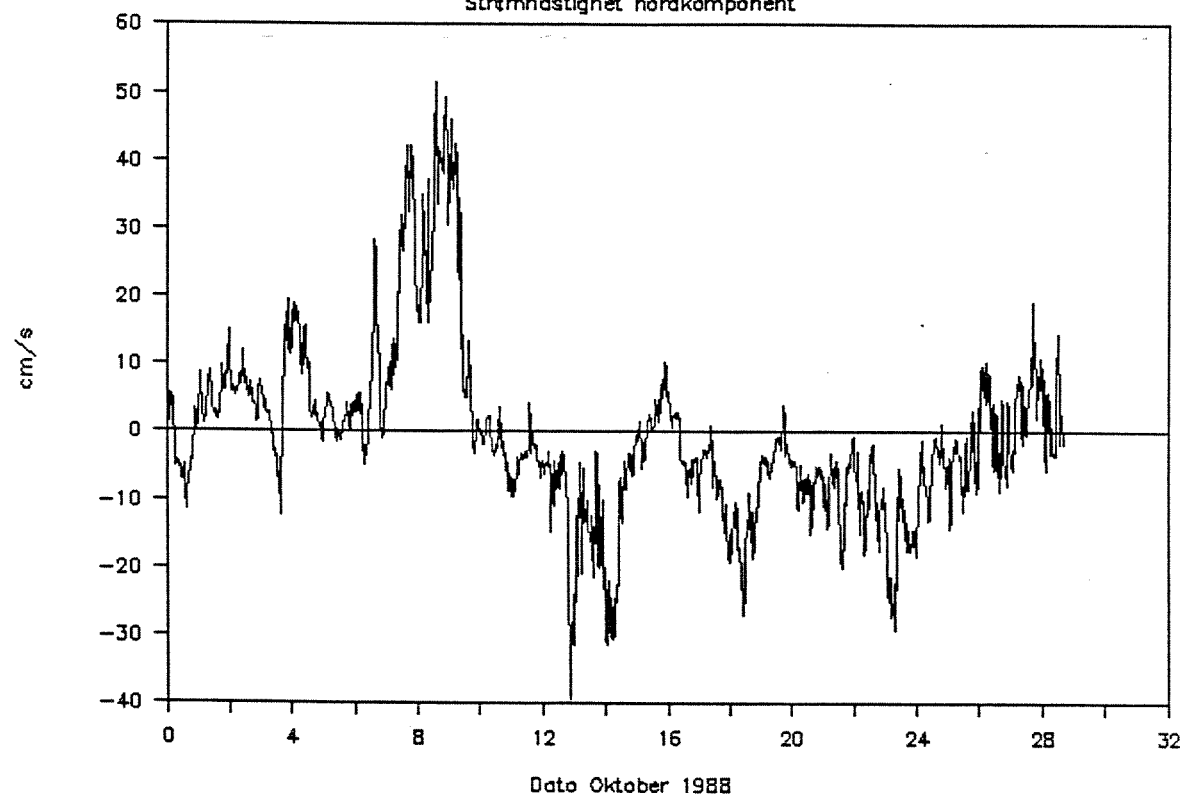


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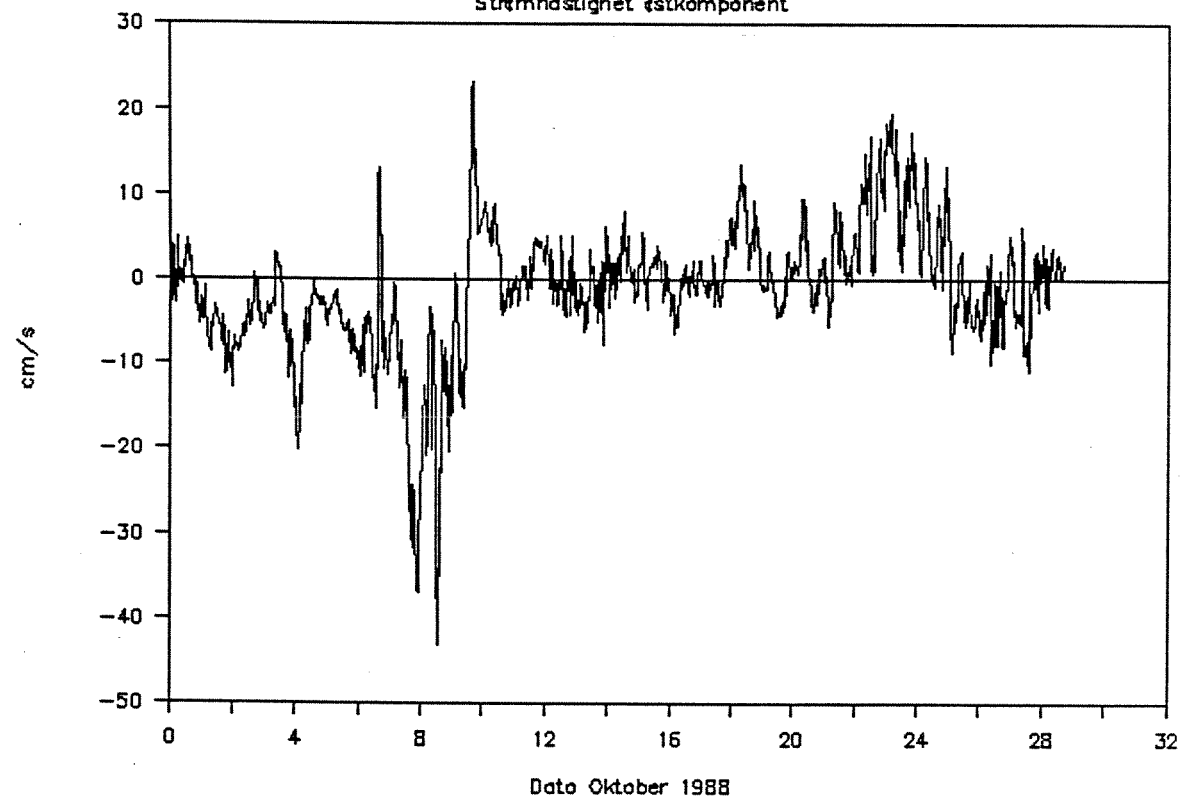
Grisebådarna 30 m.

Strømhastighet nordkomponent



Grisebådarna 30 m.

Strømhastighet østkomponent

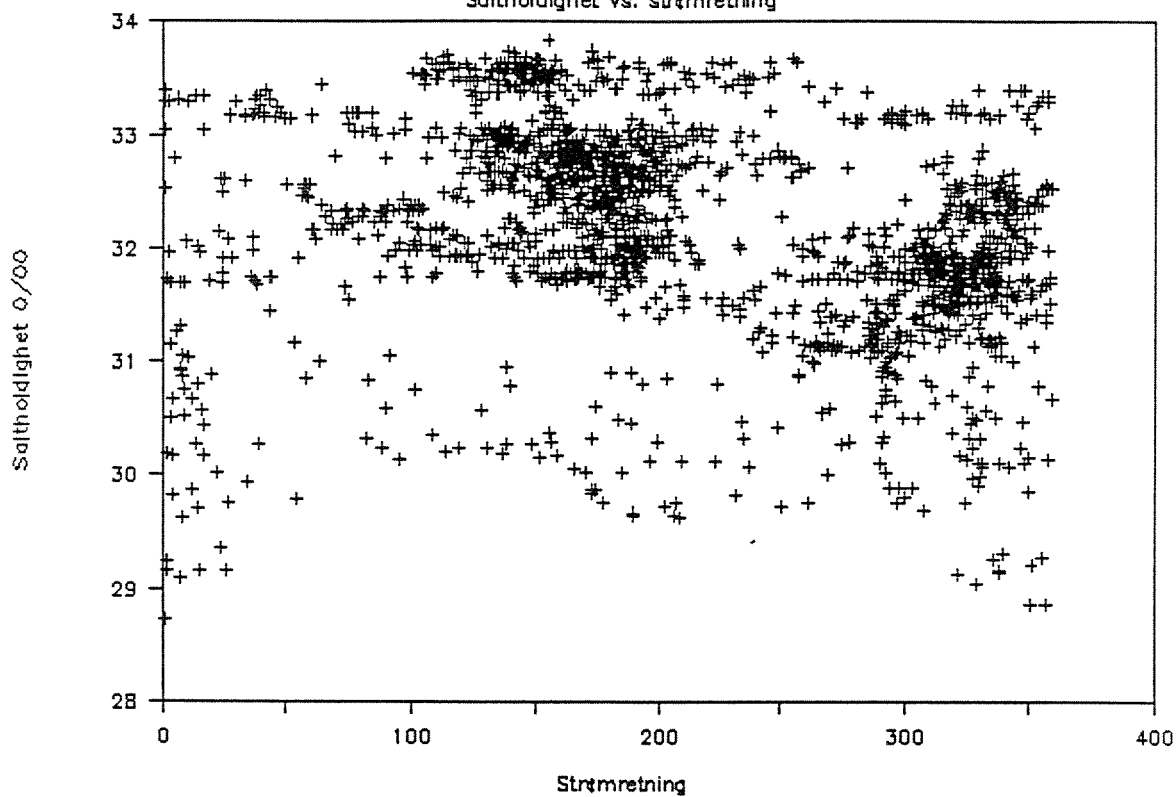


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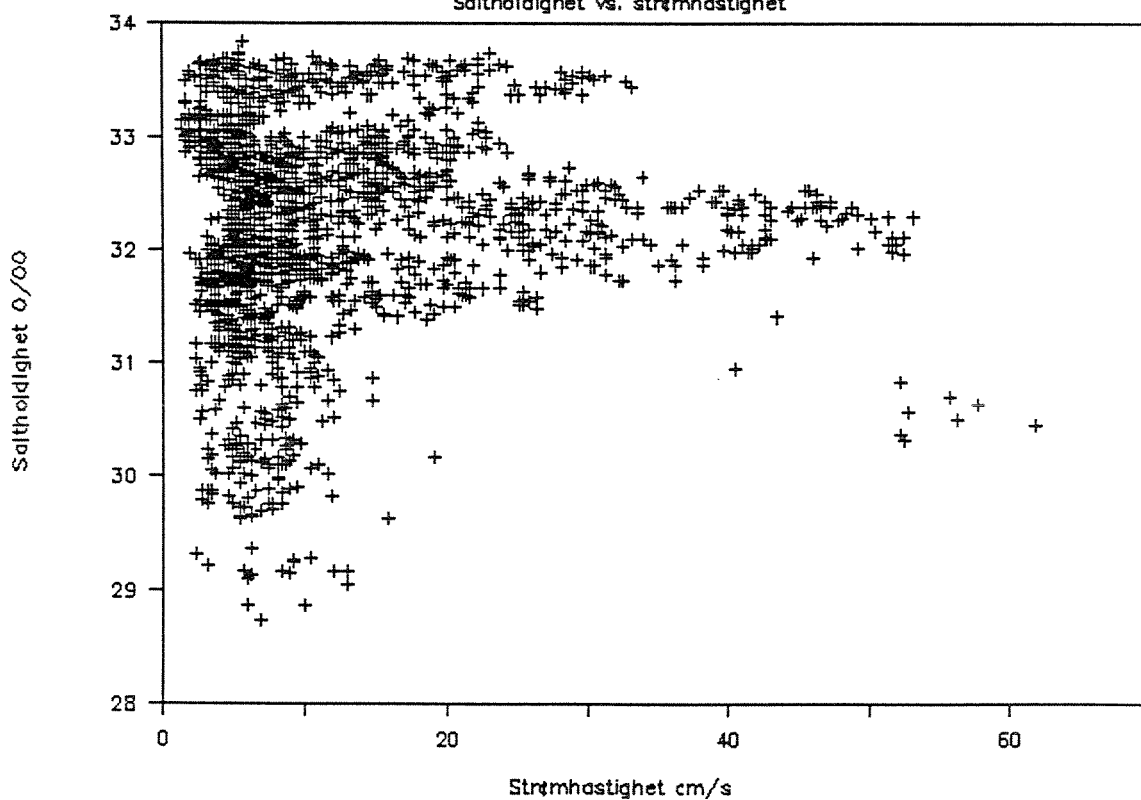
Grisebådarna 30 m. Oktober 1988

Saltholdighet vs. strømretning



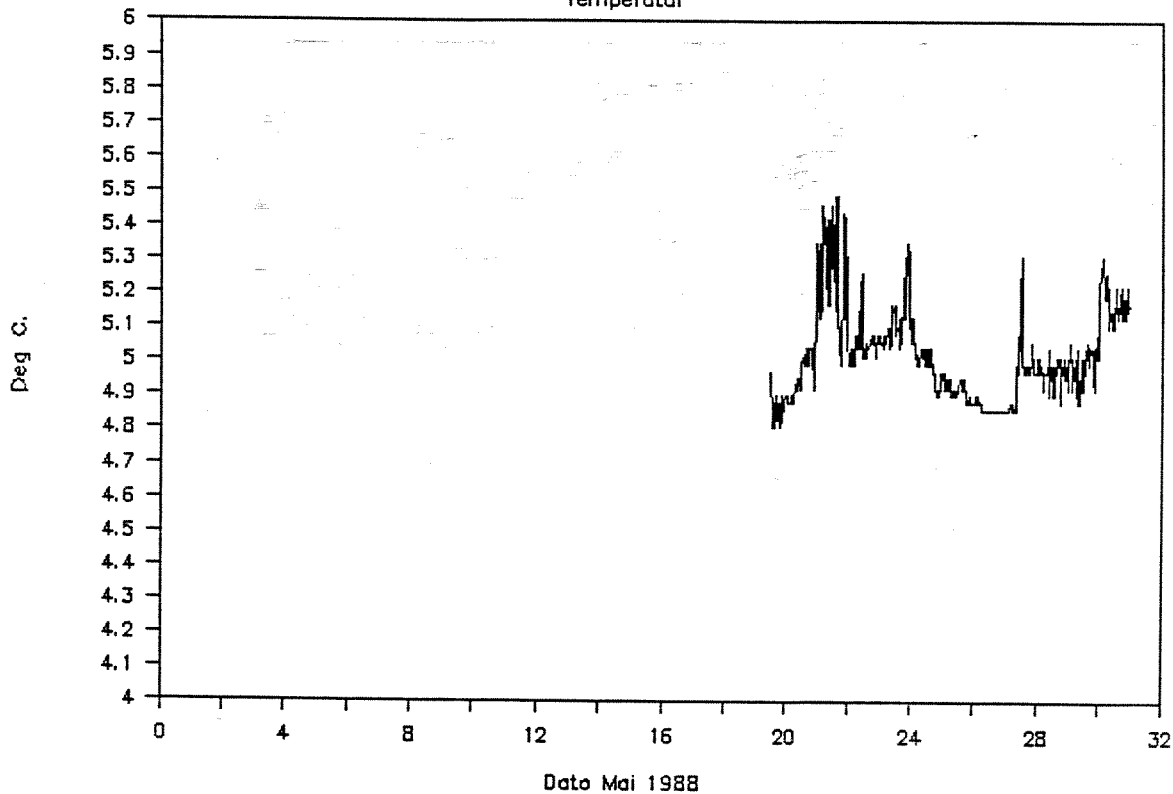
Grisebådarna 30 m. Oktober 1988

Saltholdighet vs. strømhastighet

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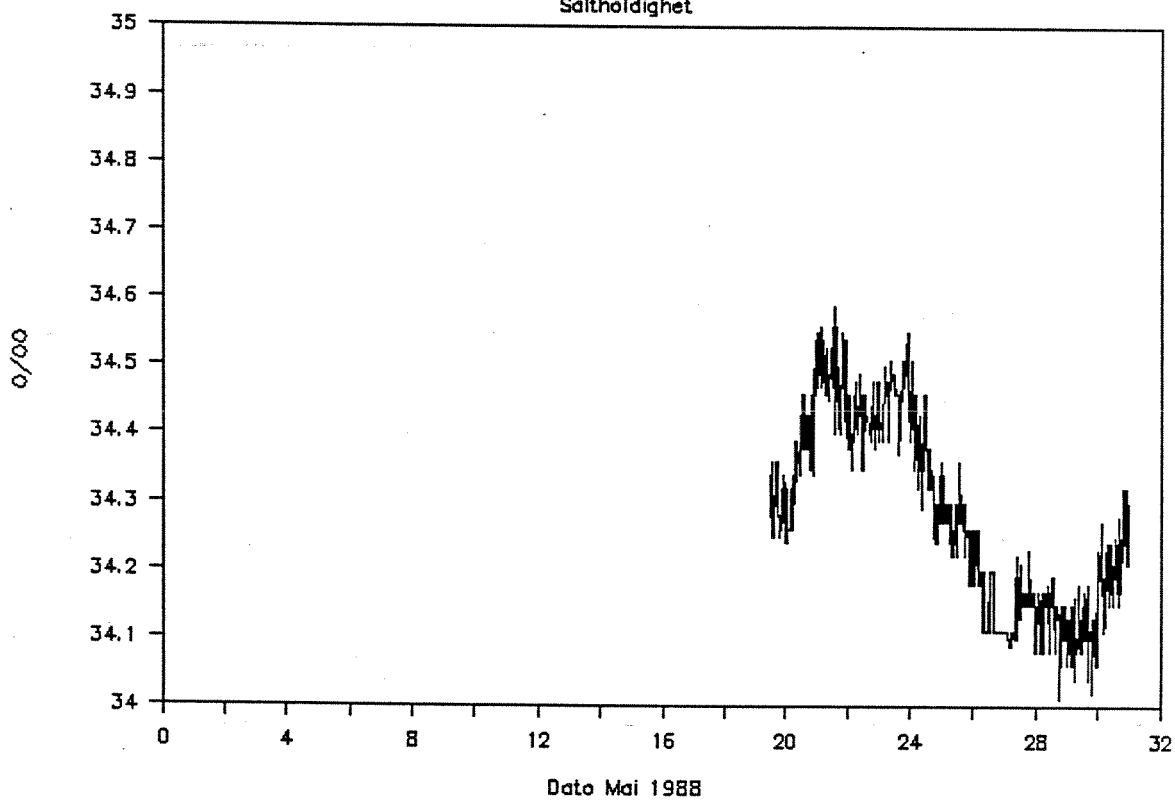
Grisebådarna 50 m.

Temperatur



Grisebådarna 50 m.

Saltholdighet

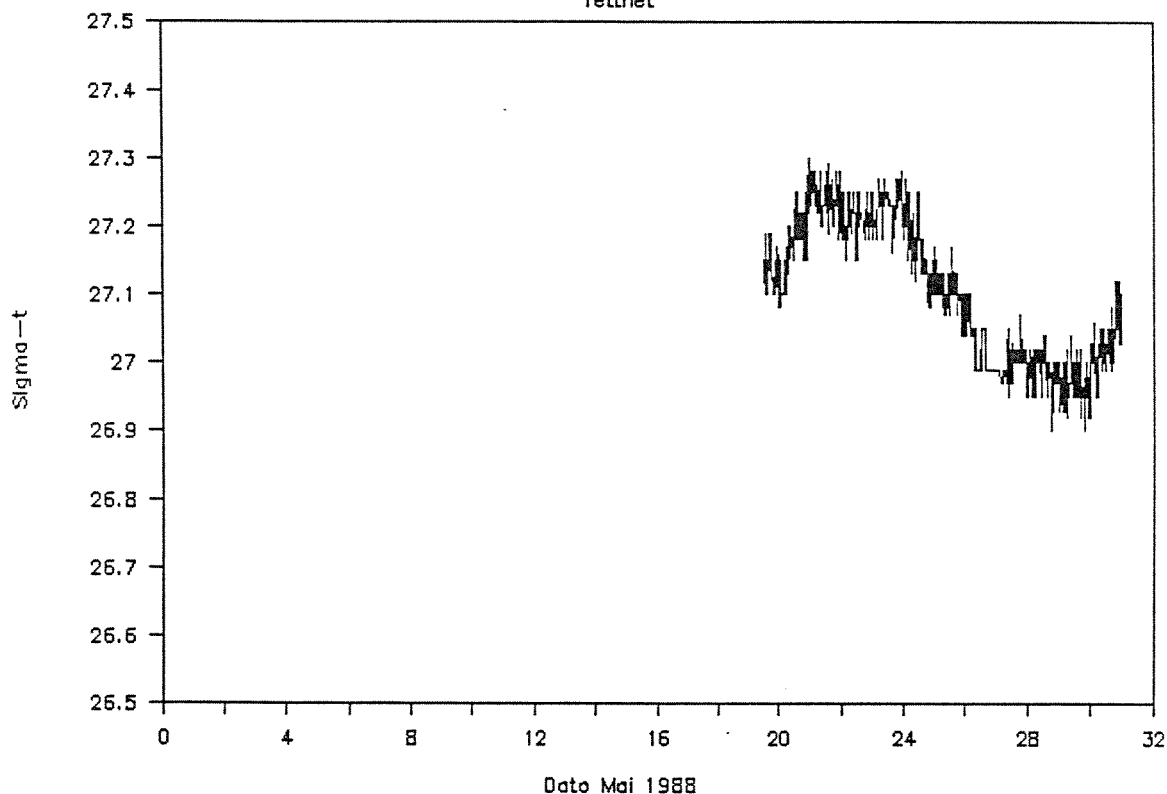


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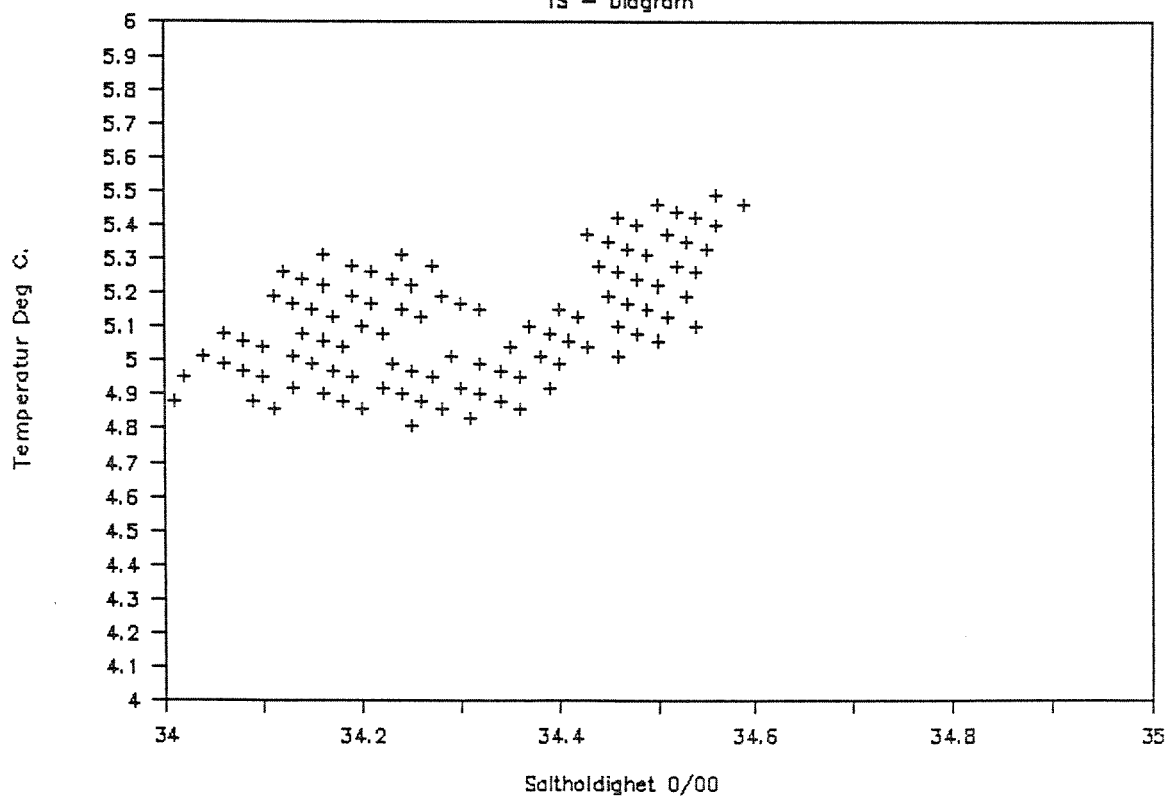
Grisebådarna 50 m.

Tetthet



Grisebådarna 50 m. Mai 1988

TS - Diagram

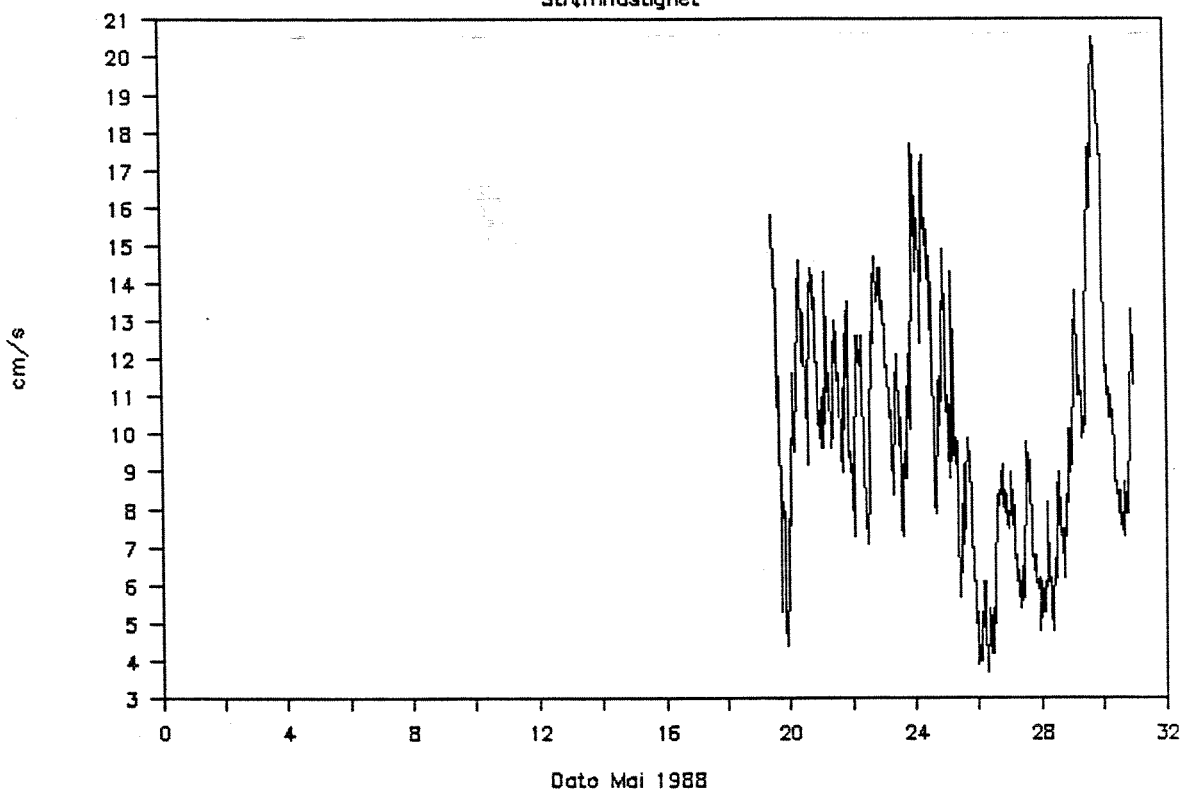


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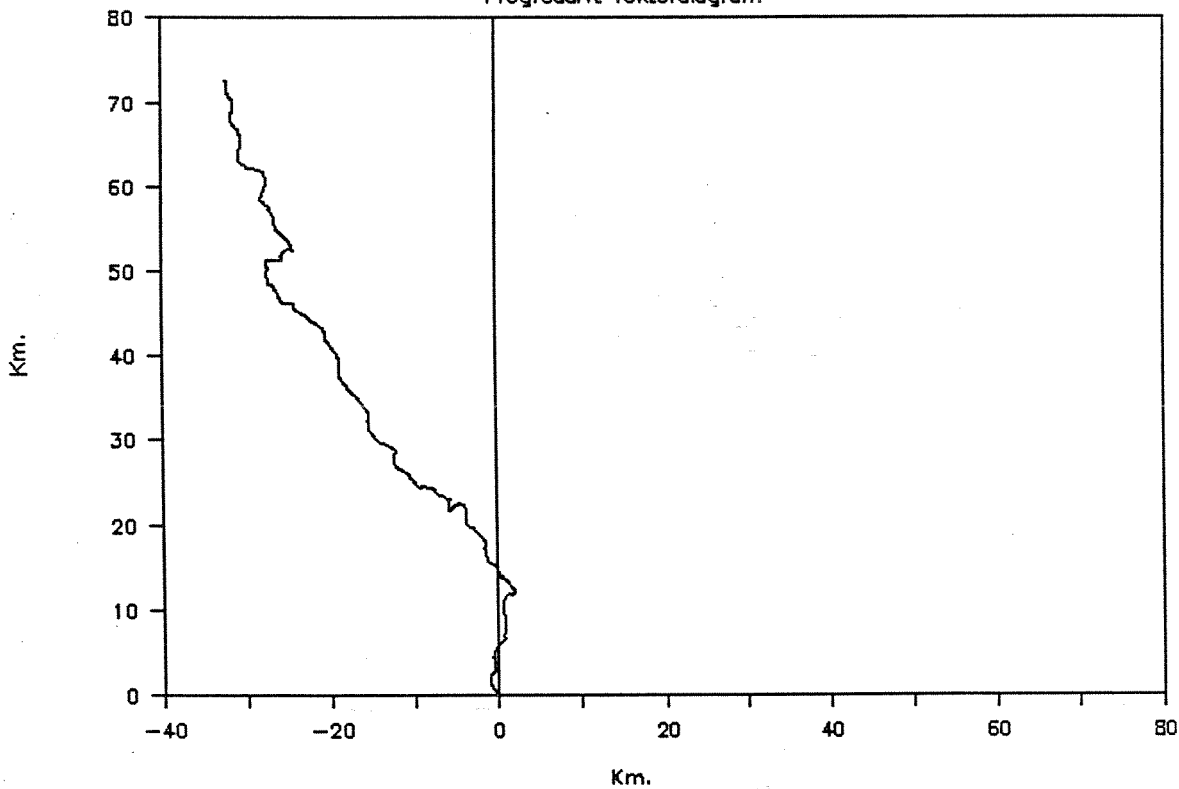
Grisebådarna 50 m.

Strømhastighet



Grisebådarna 50 m. Mai 1988

Progressivt Vektordiagram

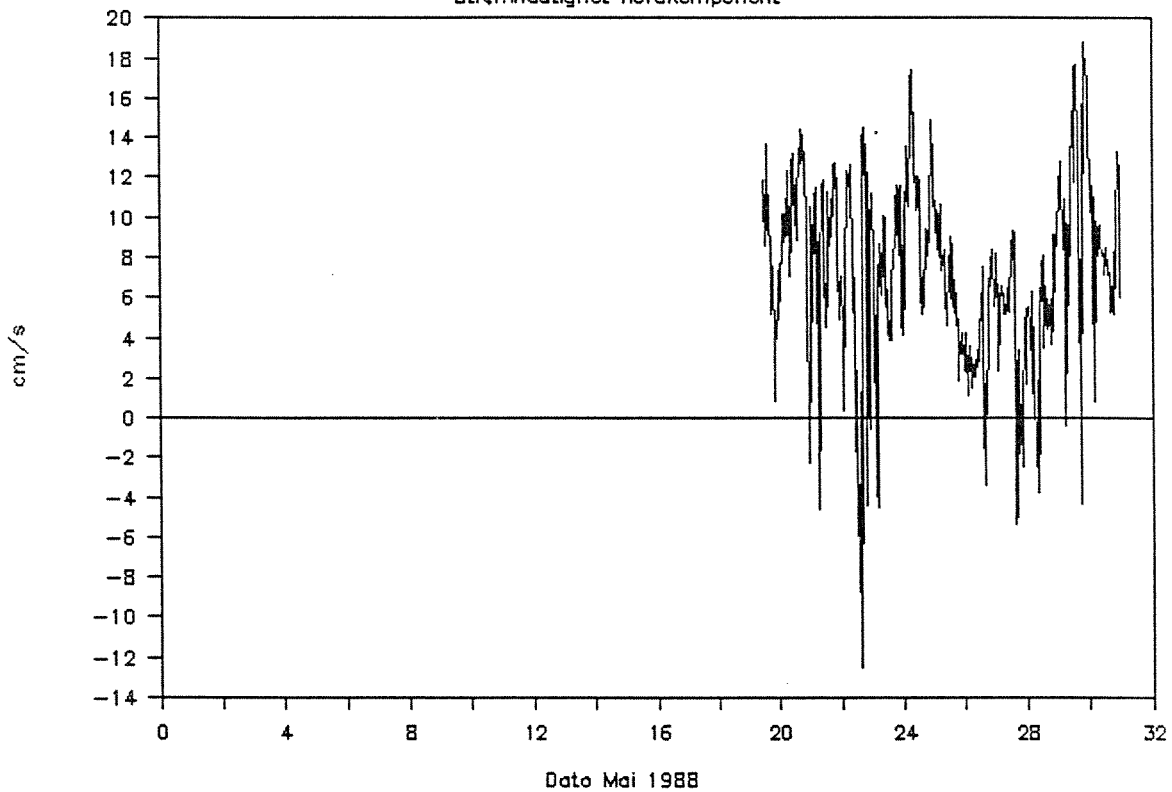


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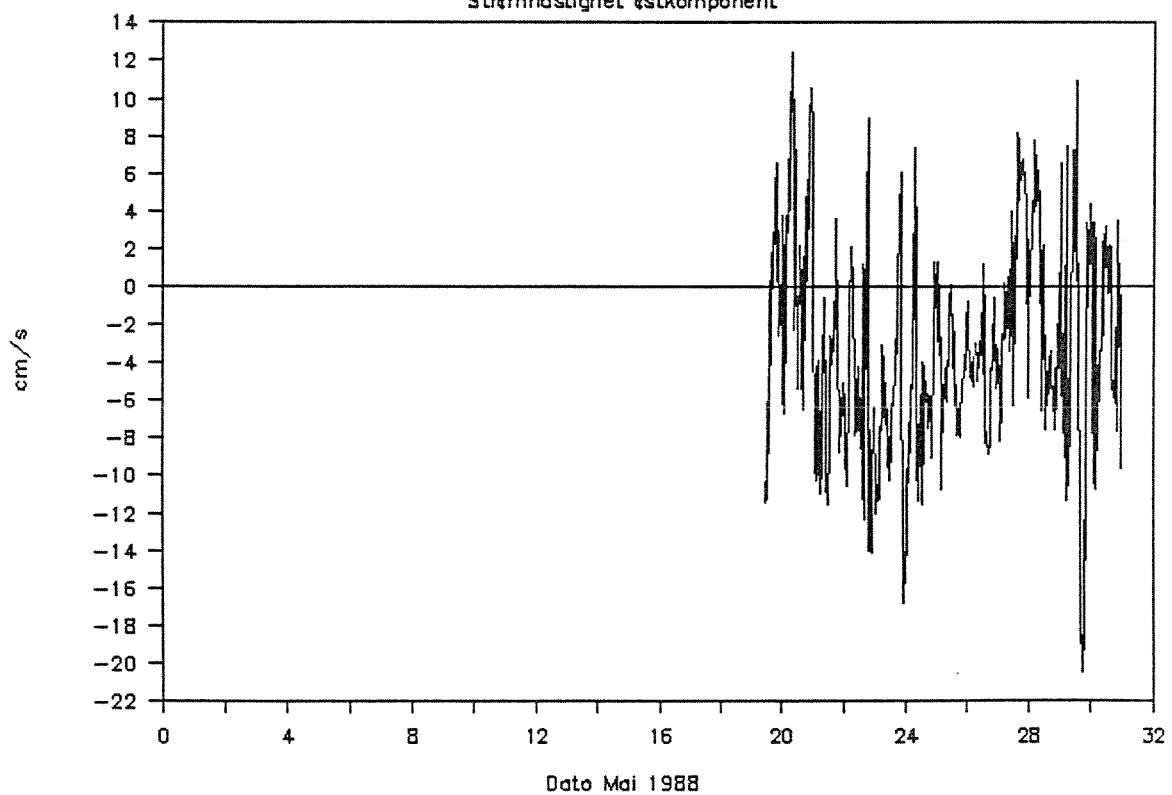
Grisebådarna 50 m.

Strømhastighet nordkomponent



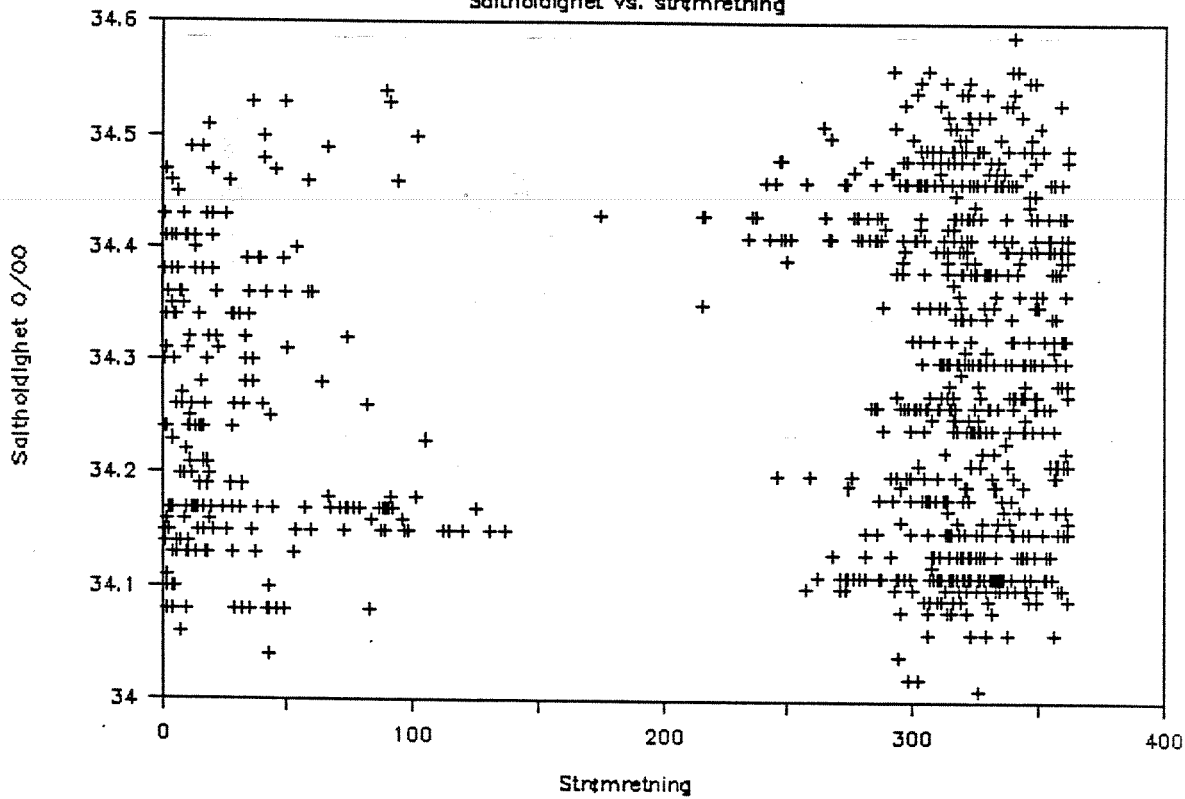
Grisebådarna 50 m.

Strømhastighet østkomponent

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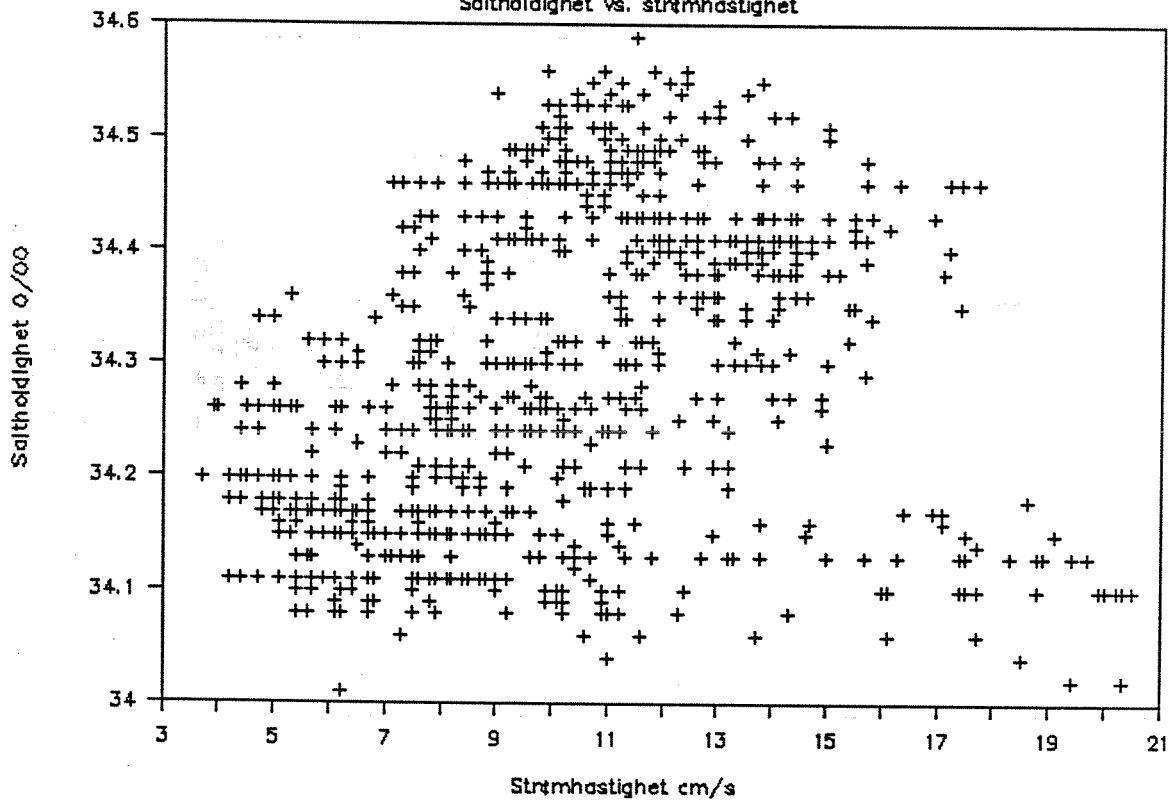
Grisebådarna 50 m. Mai 1988

Saltholdighet vs. strømrøtning



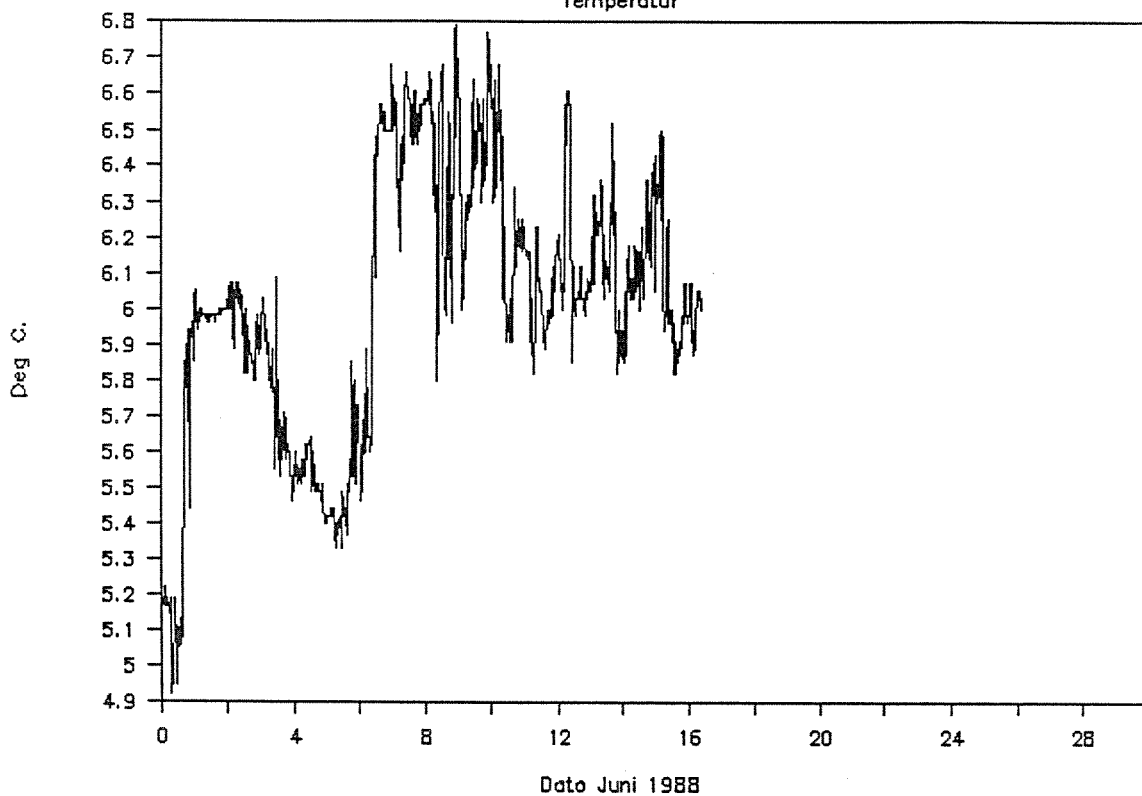
Grisebådarna 50 m. Mai 1988

Saltholdighet vs. strømhastighet

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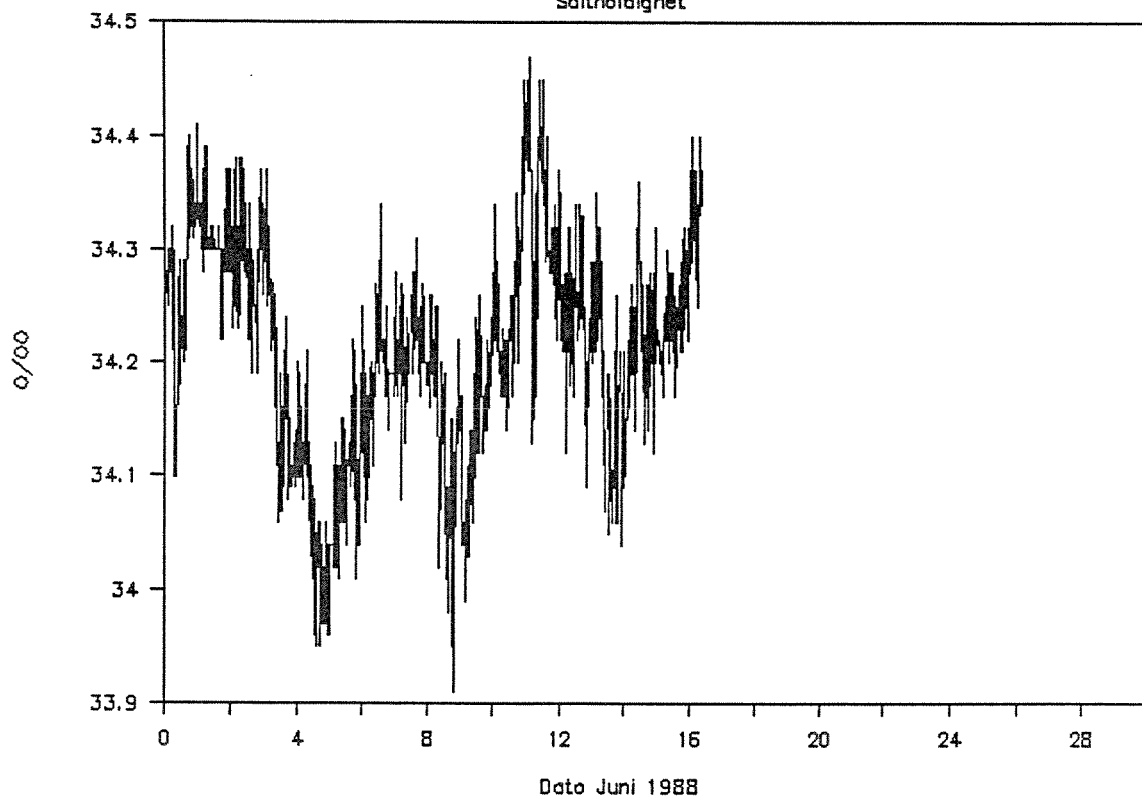
Grisebådarna 50 m

Temperatur



Grisebådarna 50 m

Saltholdighet

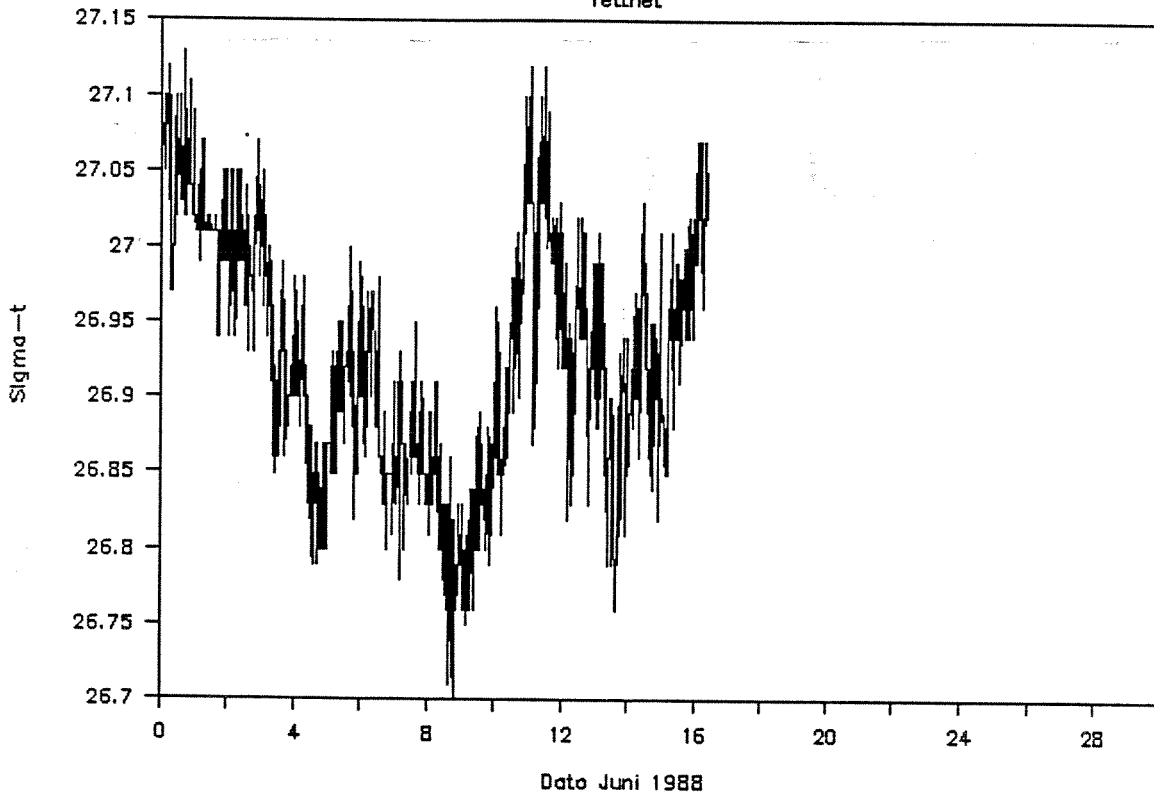


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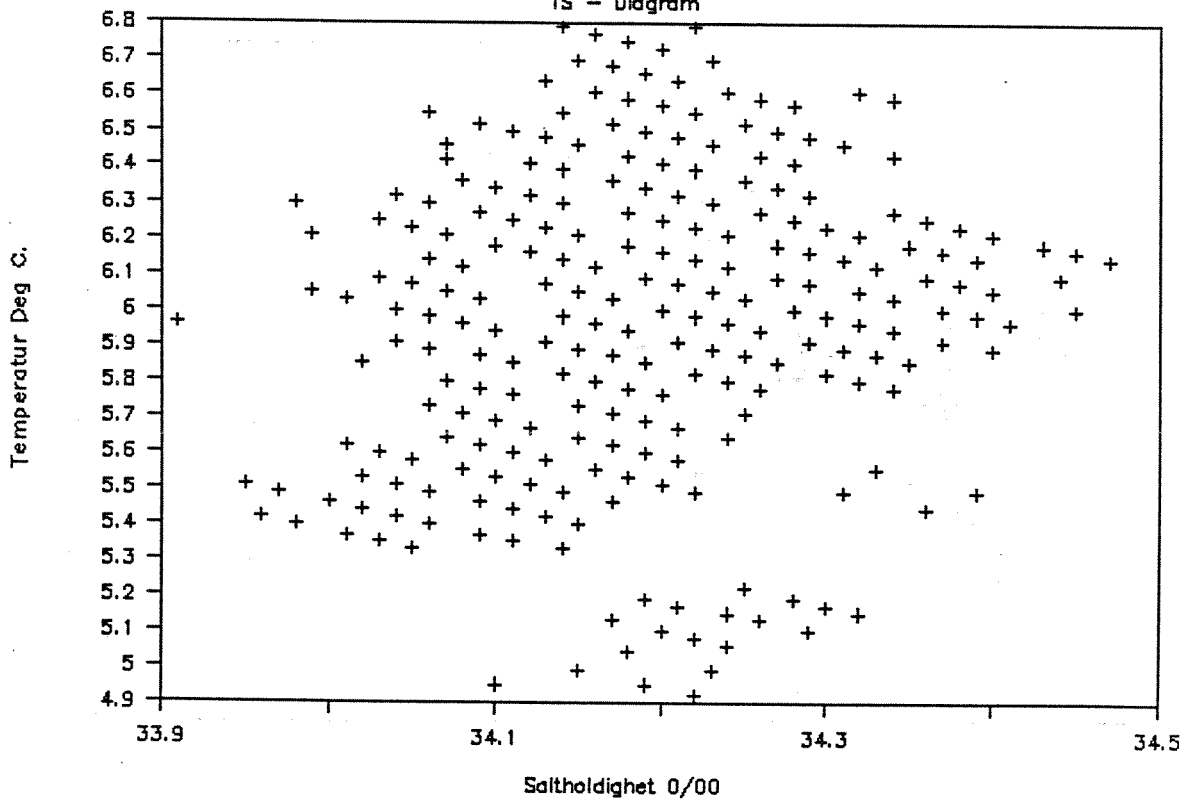
Grisebådarna 50 m

Tetthet



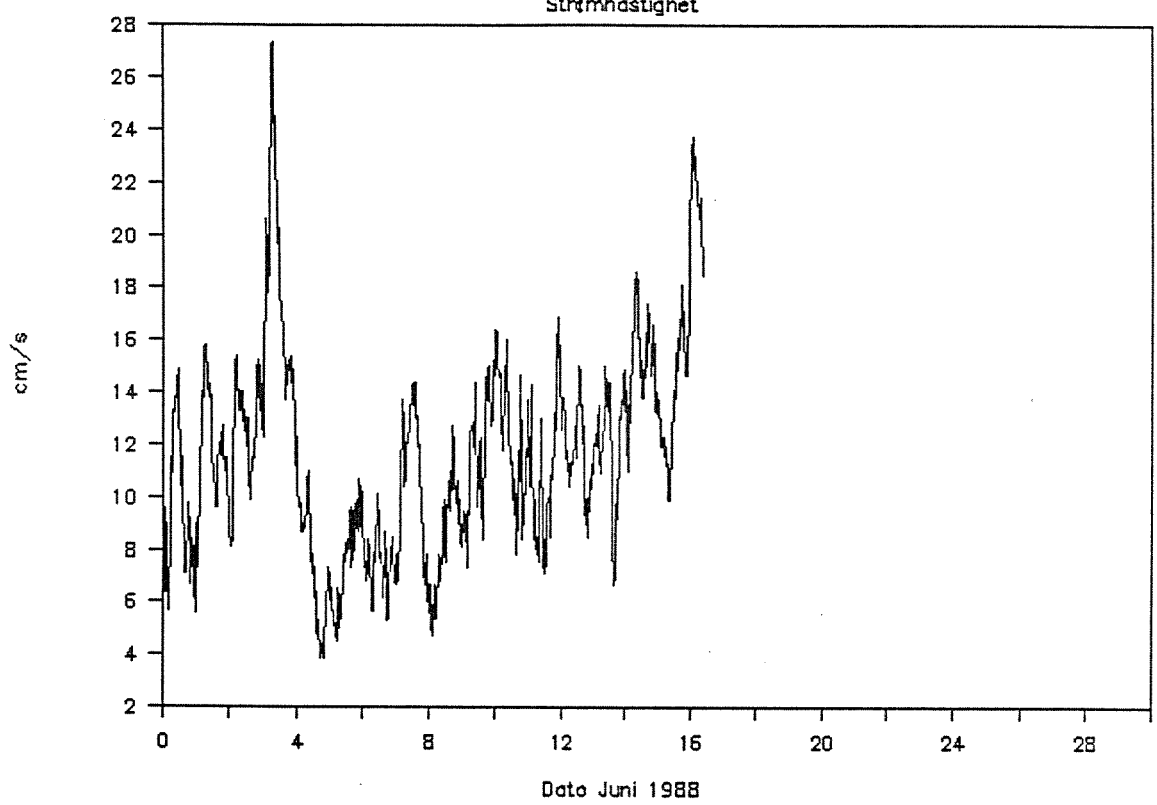
Grisebådarna 50 m Juni 1988

TS - Diagram



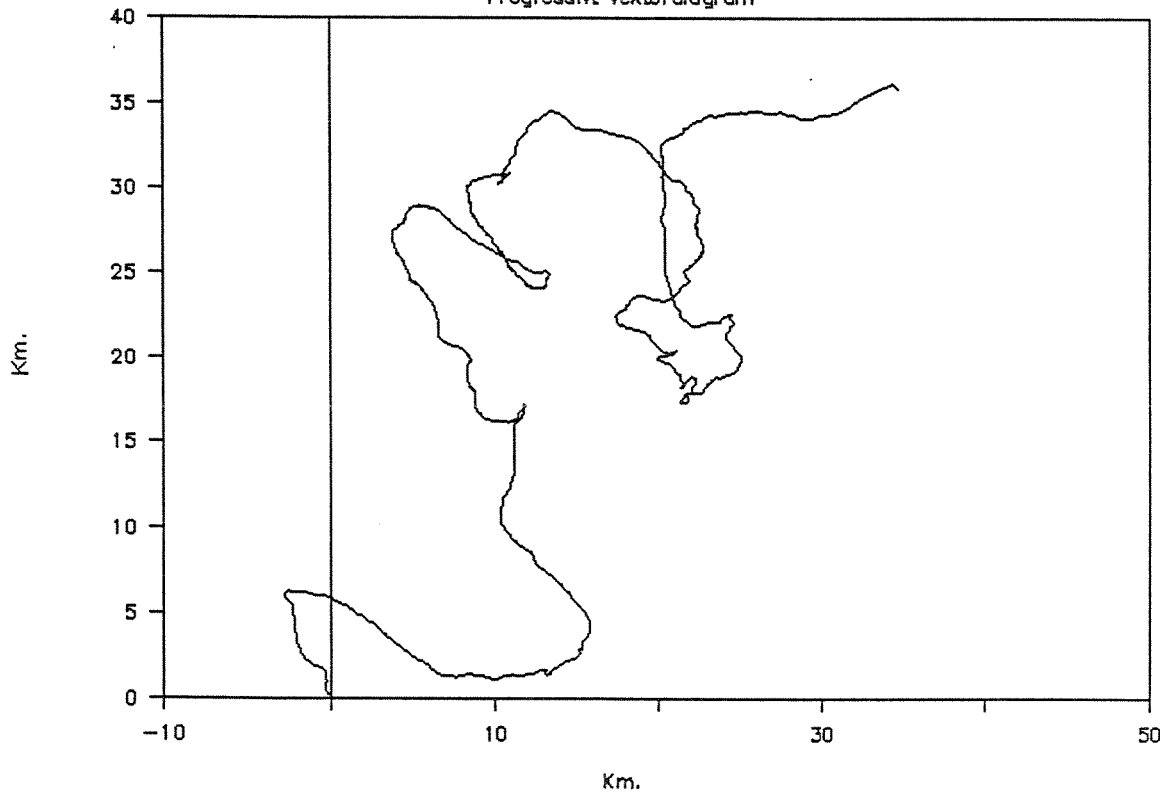
Grisebådarna 50 m

Strømhastighet



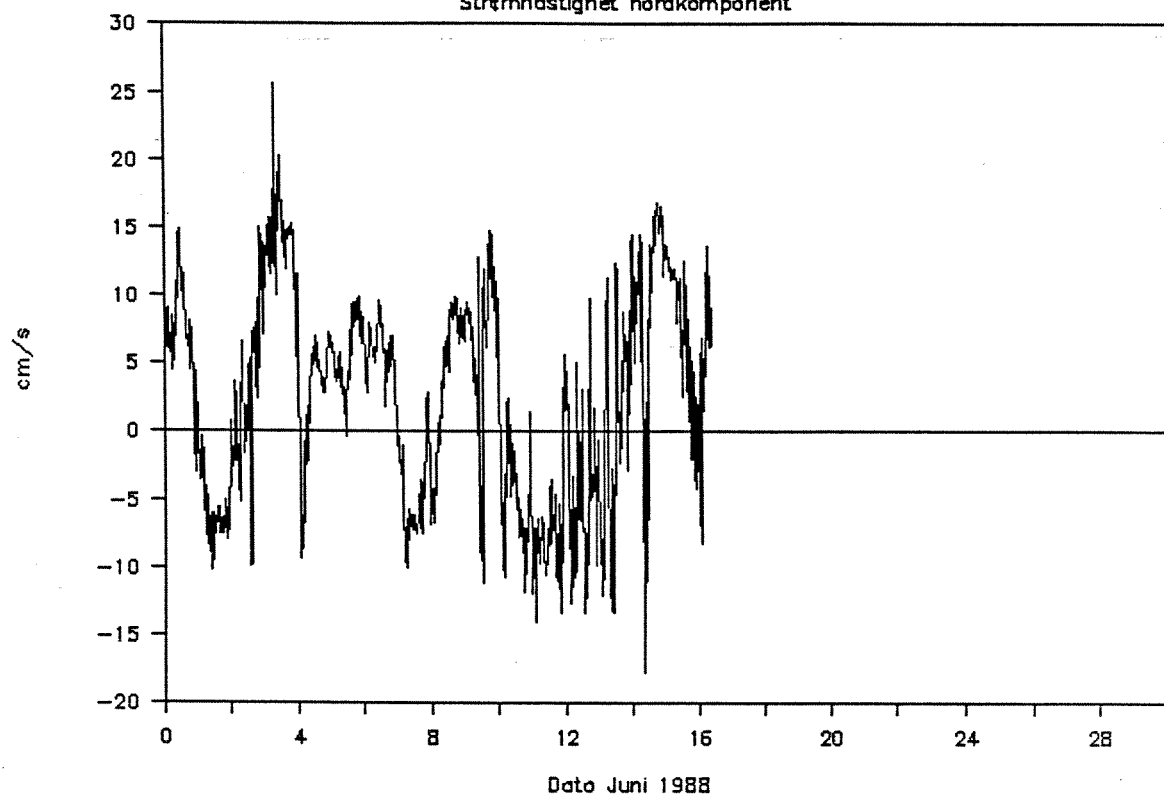
Grisebådarna 50 m Juni 1988

Progressivt vektordiagram

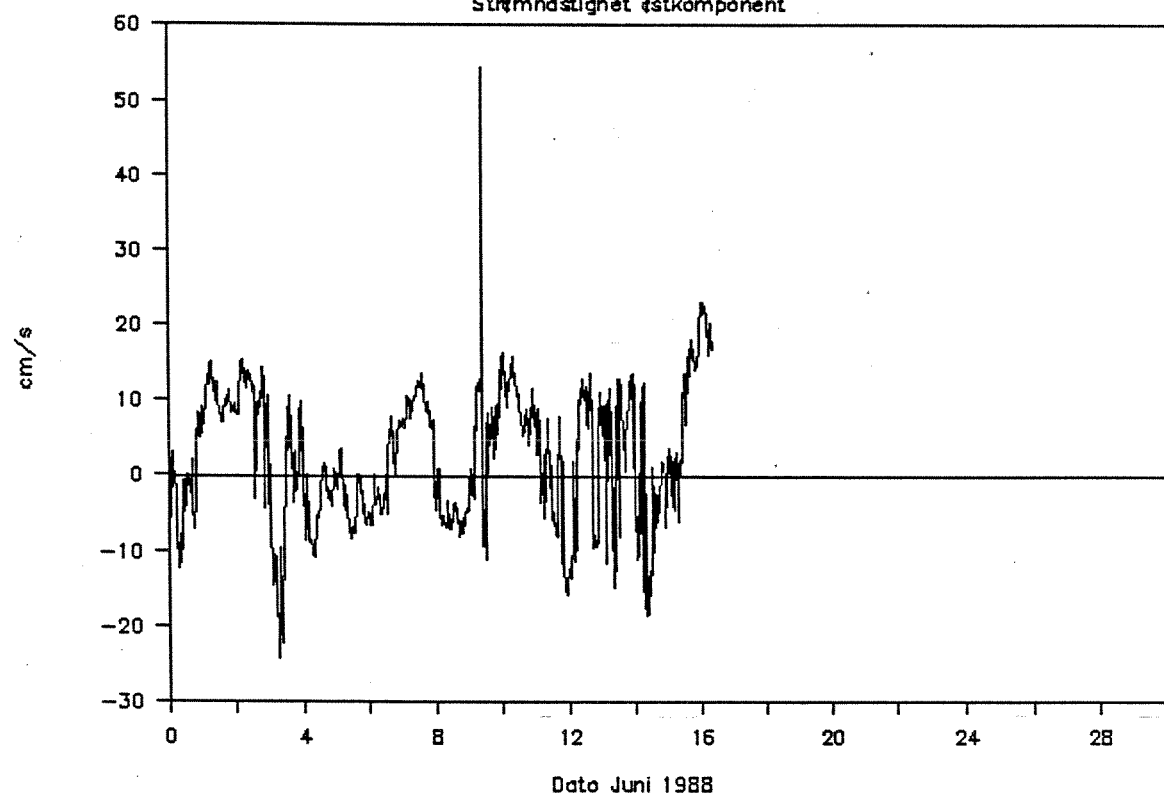


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Grisebådarna 50 m Strømhastighet nordkomponent



Grisebådarna 50 m Strømhastighet østkomponent

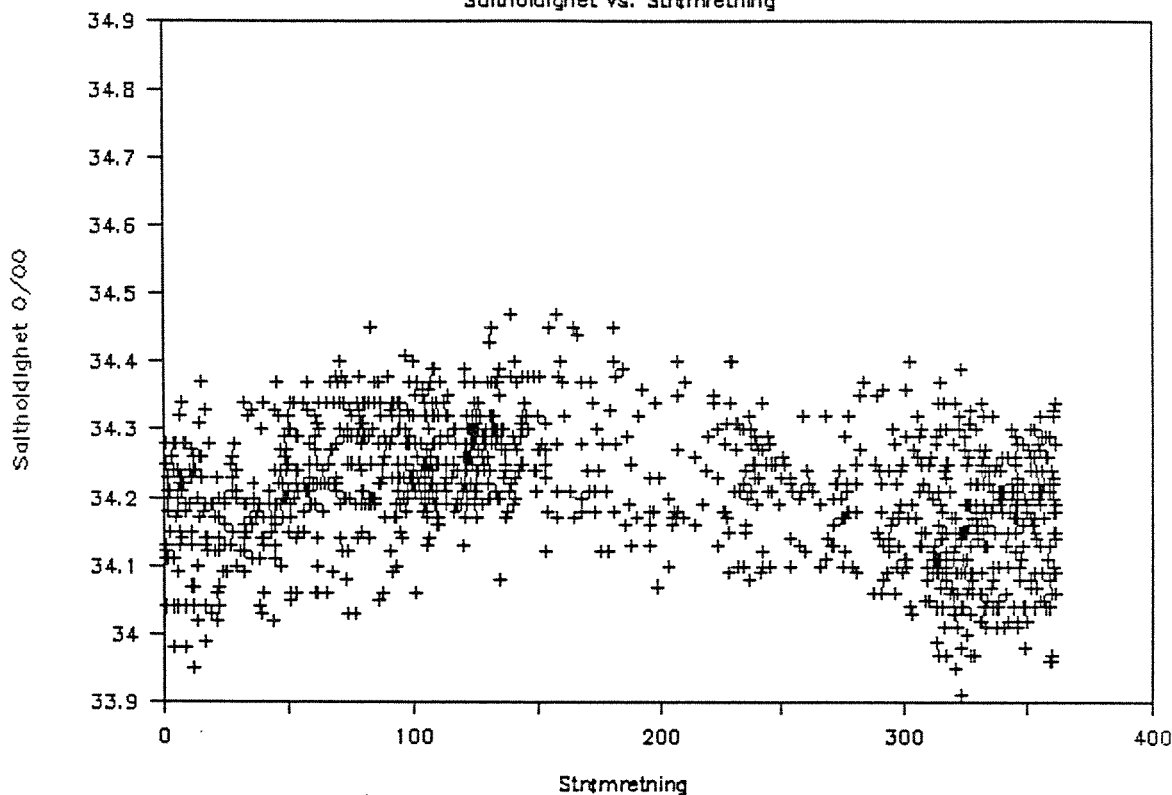


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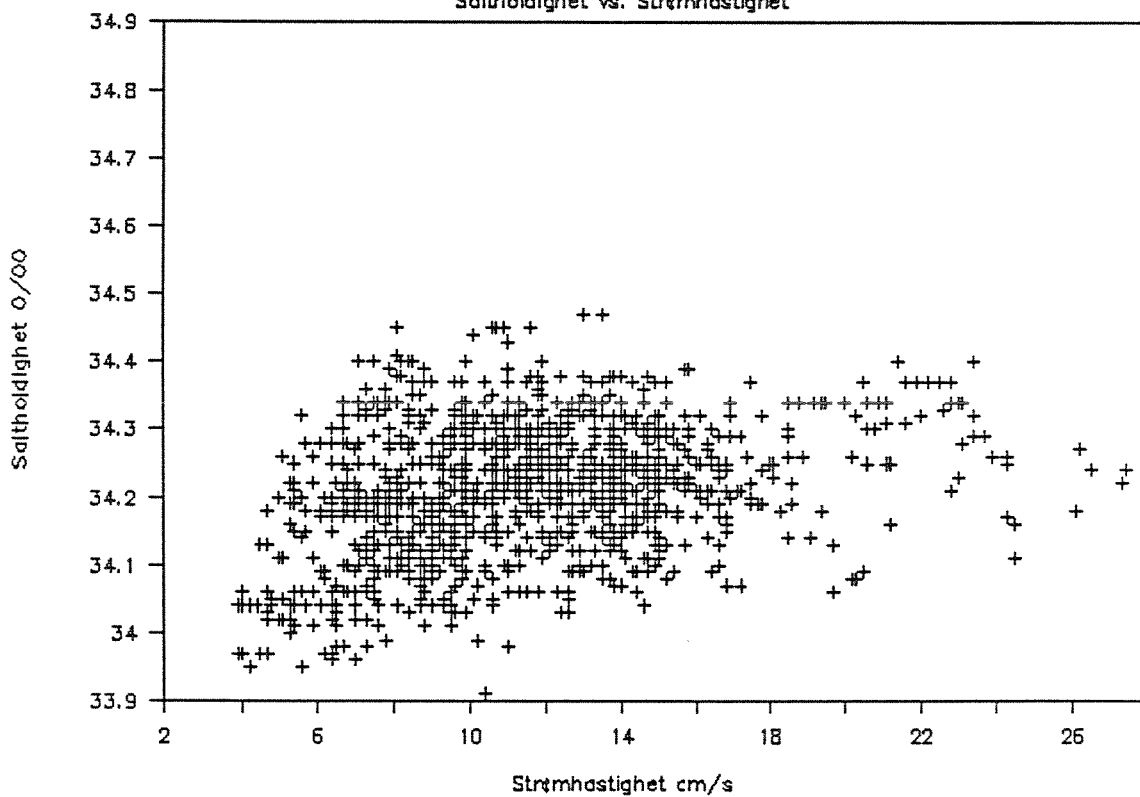
Grisebådarna 50 m Juni 1988

Saltholdighet vs. Strømrøtning



Grisebådarna 50 m Juni 1988

Saltholdighet vs. Strømhastighet

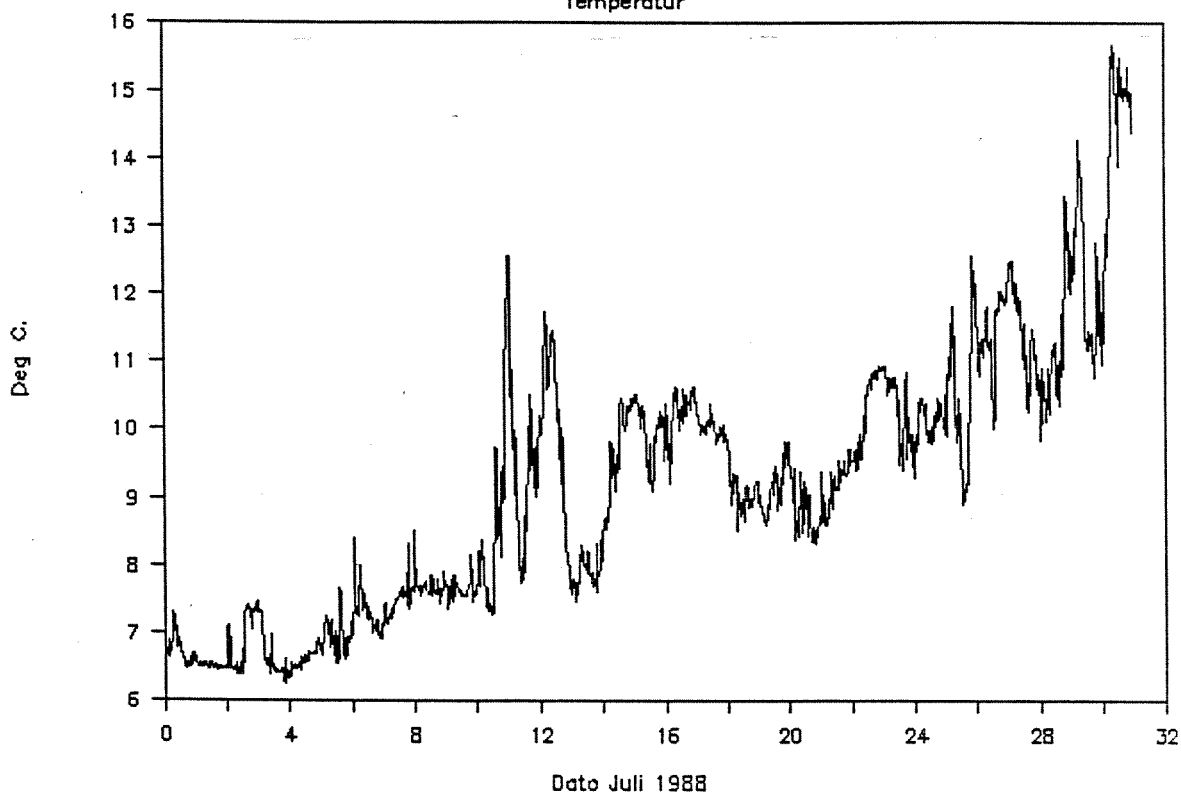


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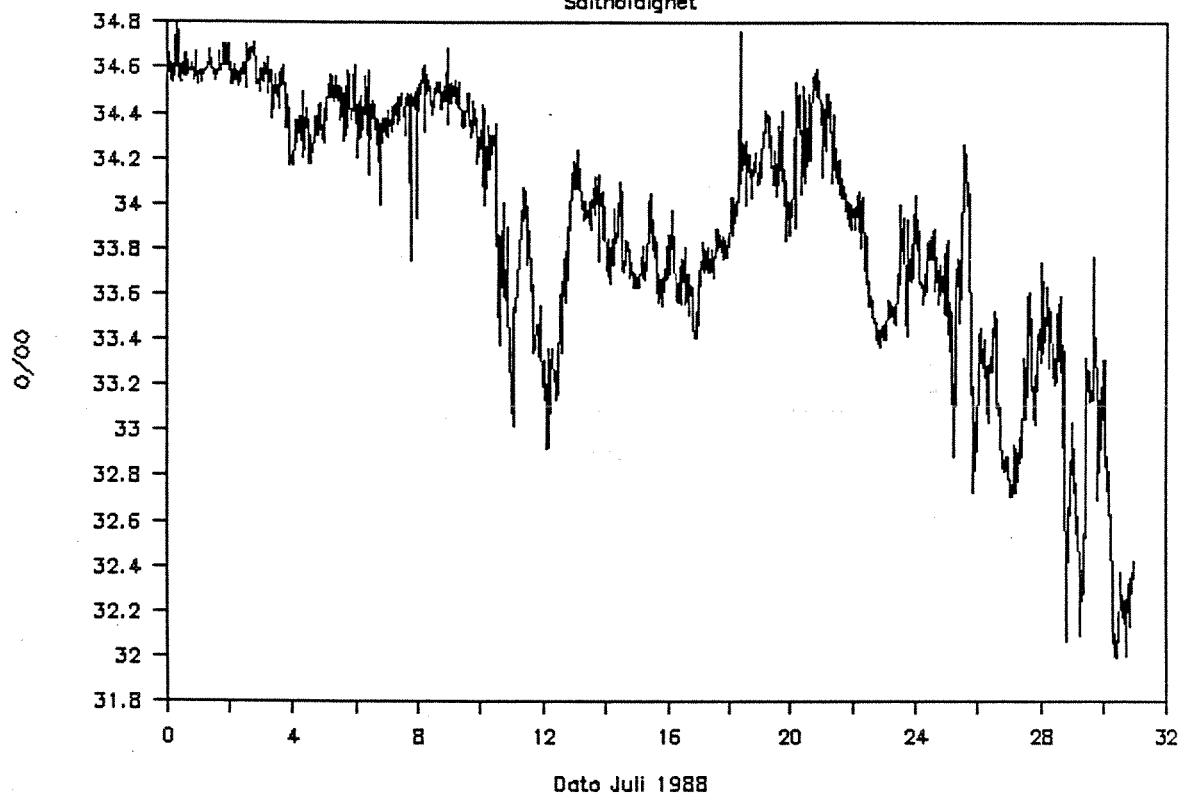
Grisebådarna 50 m.

Temperatur



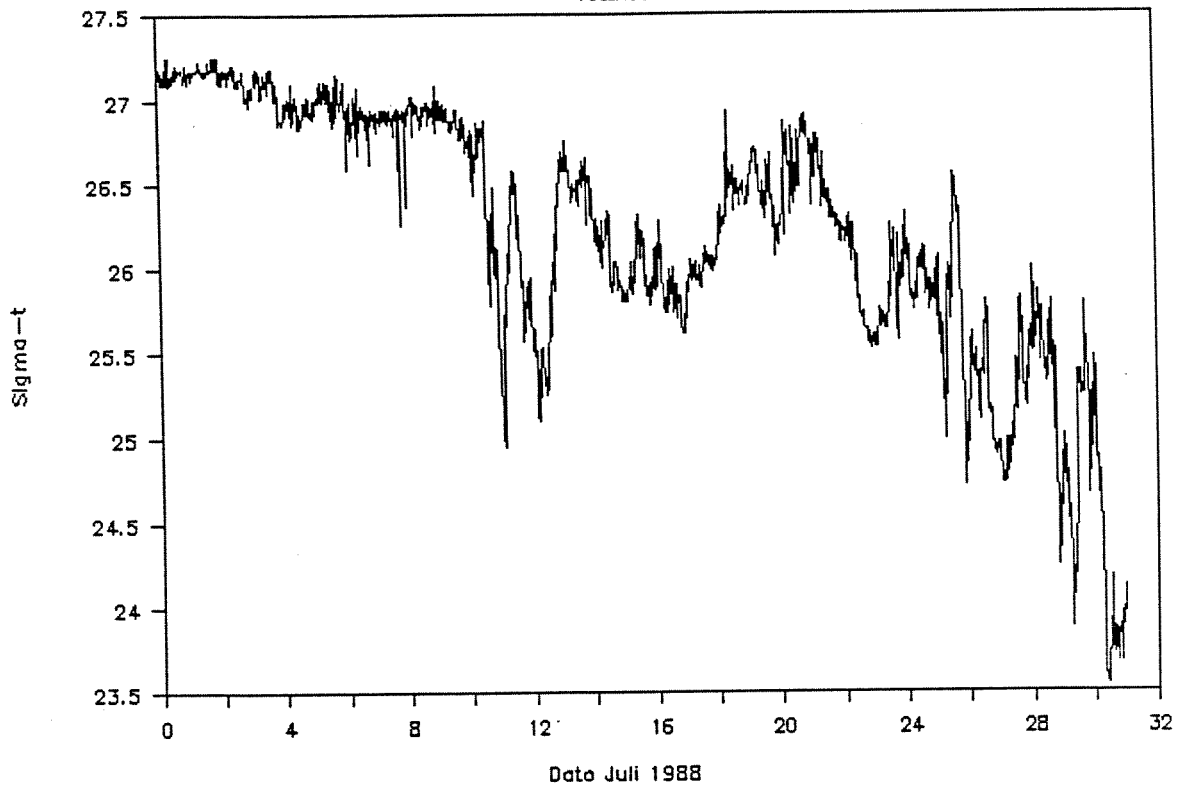
Grisebådarna 50 m.

Saltholdighet

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Grisebådarna 50 m.

Tetthet

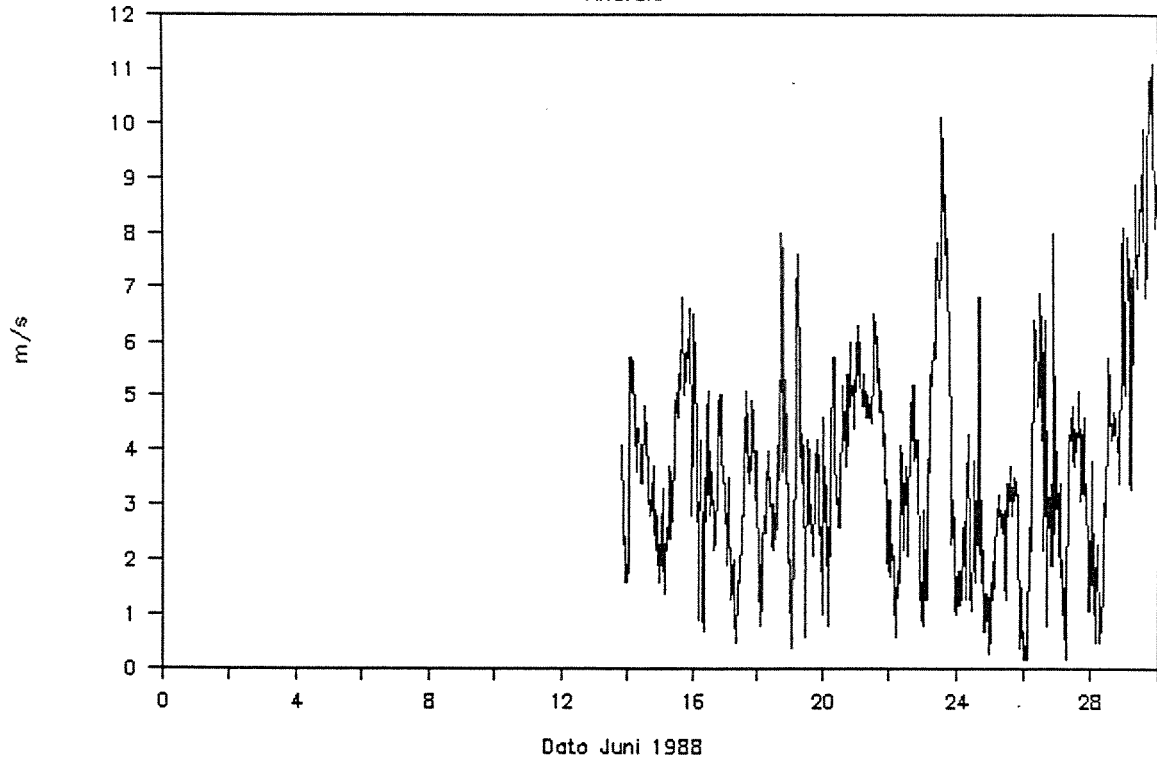


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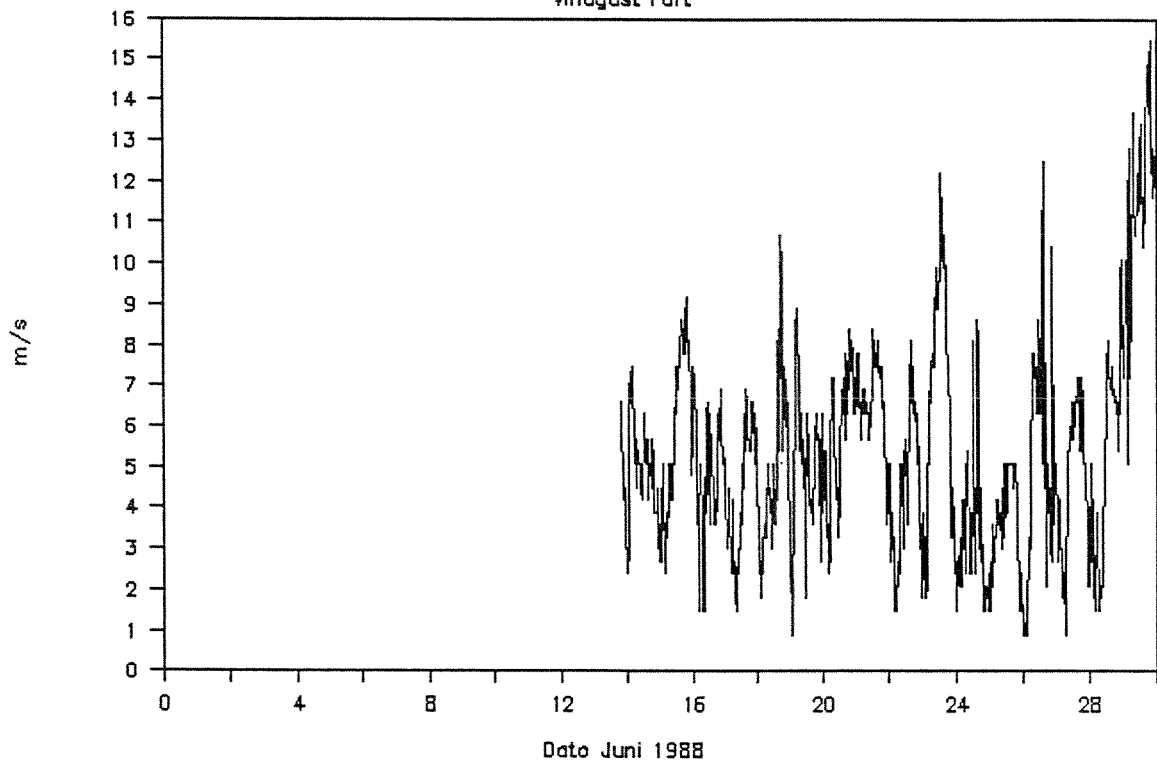
Vaerstasjon Rauer

Vindfart



Vaerstasjon Rauer

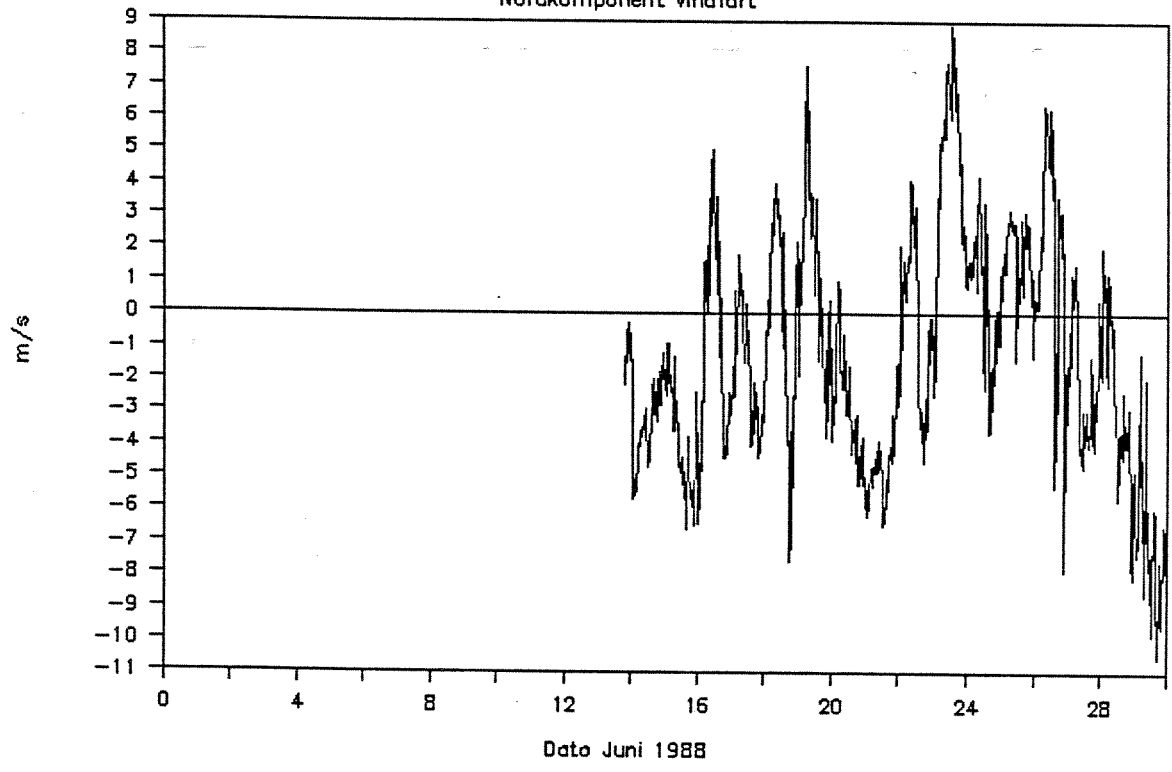
Vindgust Fart



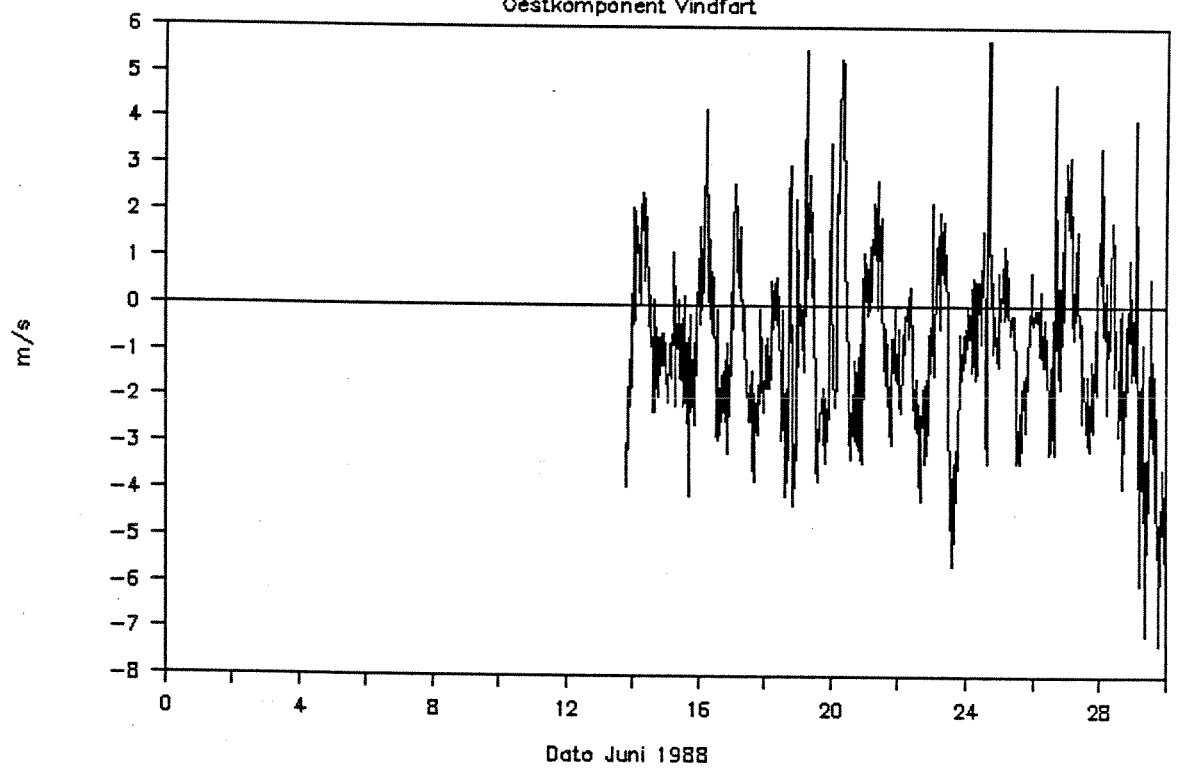
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Vaerstasjon Rauer Nordkomponent Vindfart

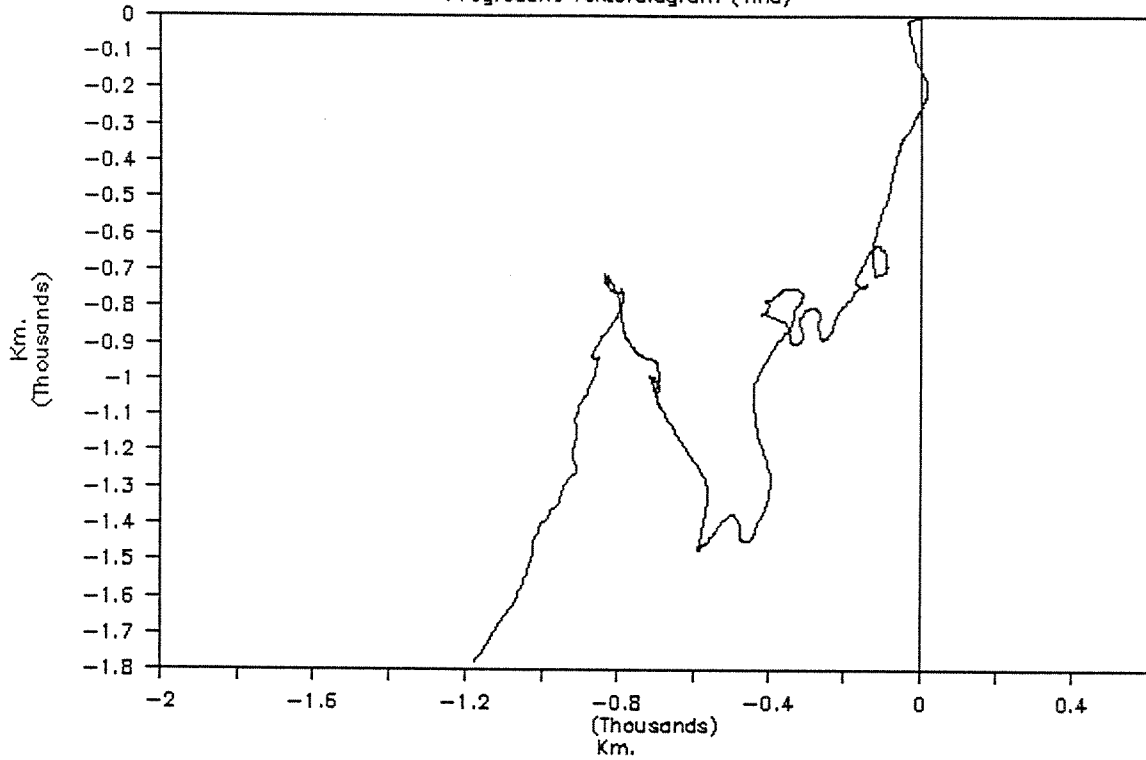


Vaerstasjon Rauer Oestkomponent Vindfart



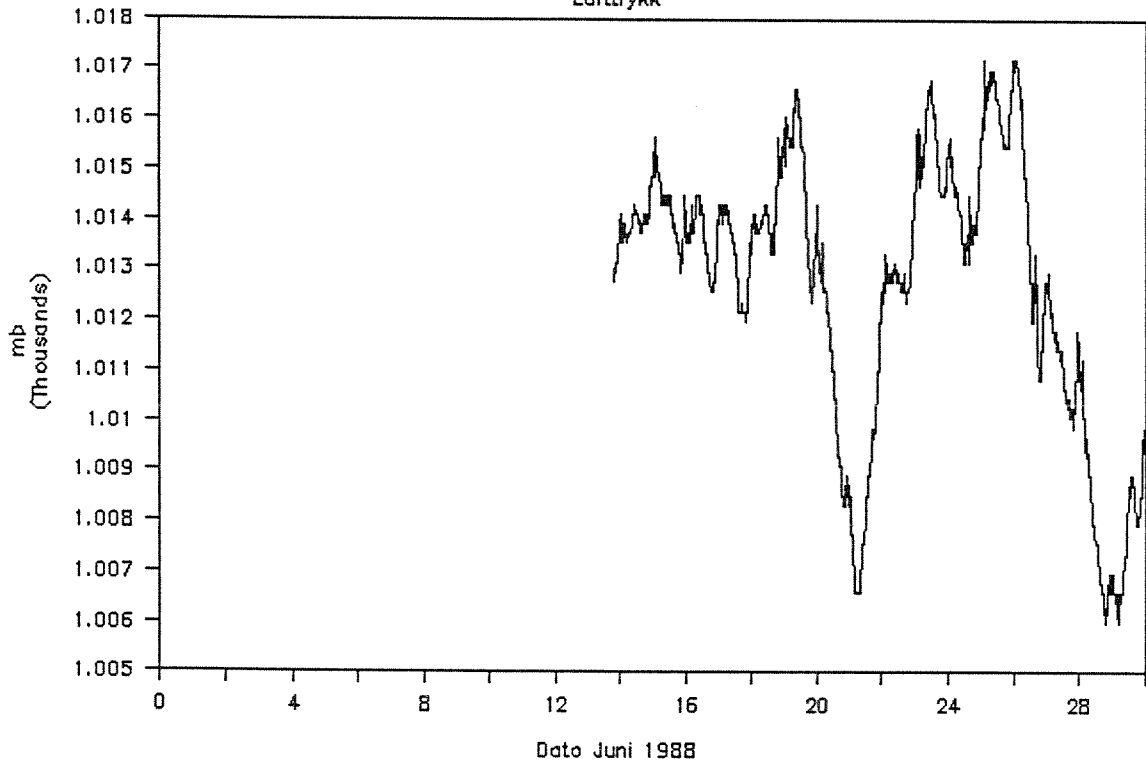
Vaerstasjon Rauer Juni 1988

Progressivt Vektordiagram (Vind)



Vaerstasjon Rauer

Lufttrykk

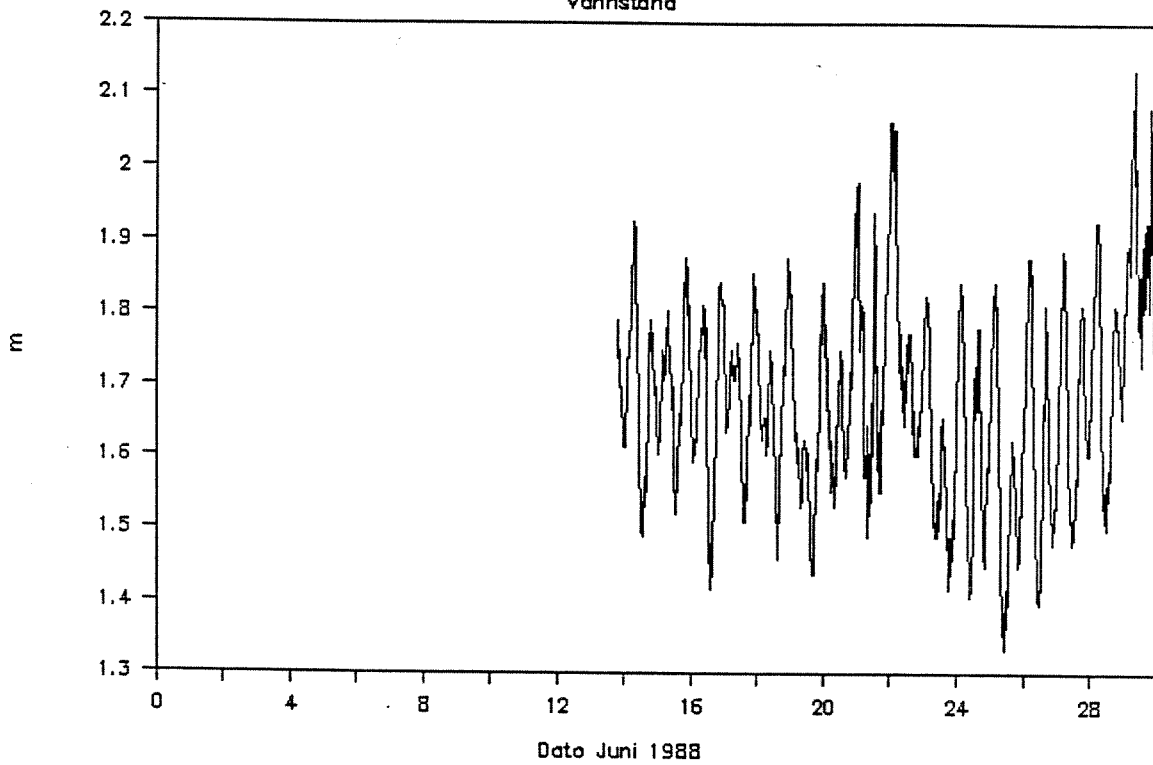


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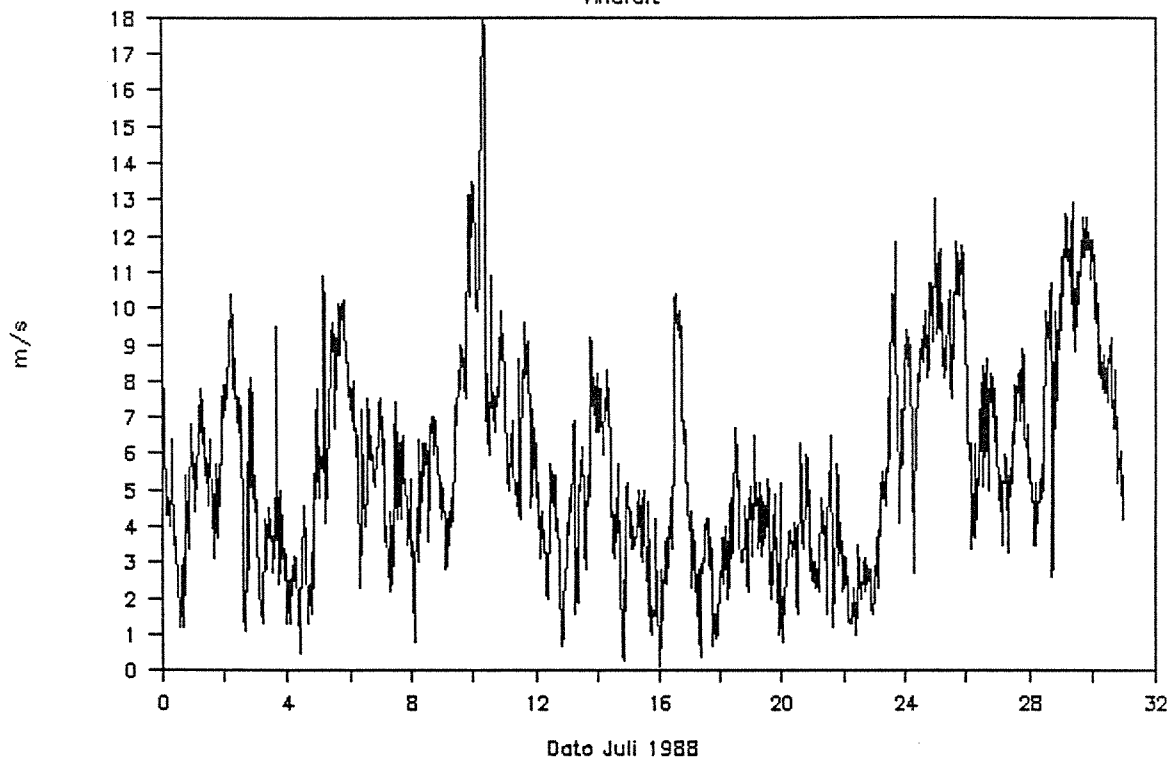
Vaerstasjon Rauer

Vannstand

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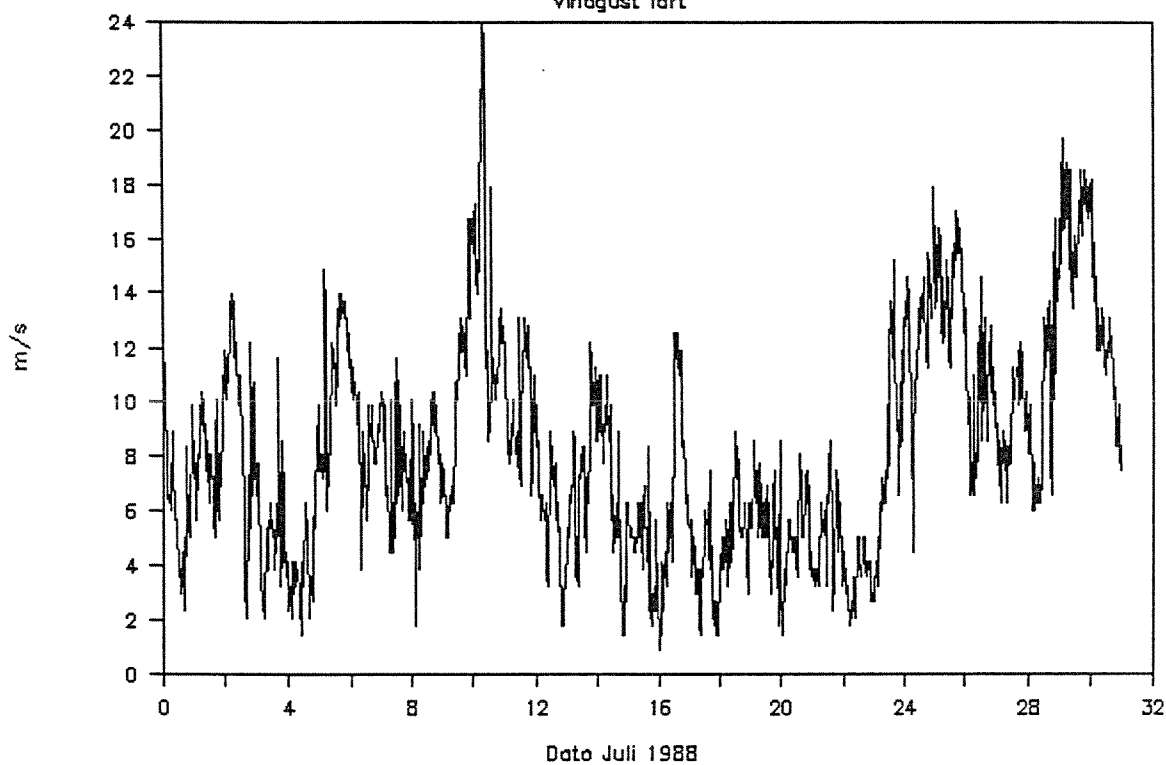
Vaerstasjon Rauer

Vindfart



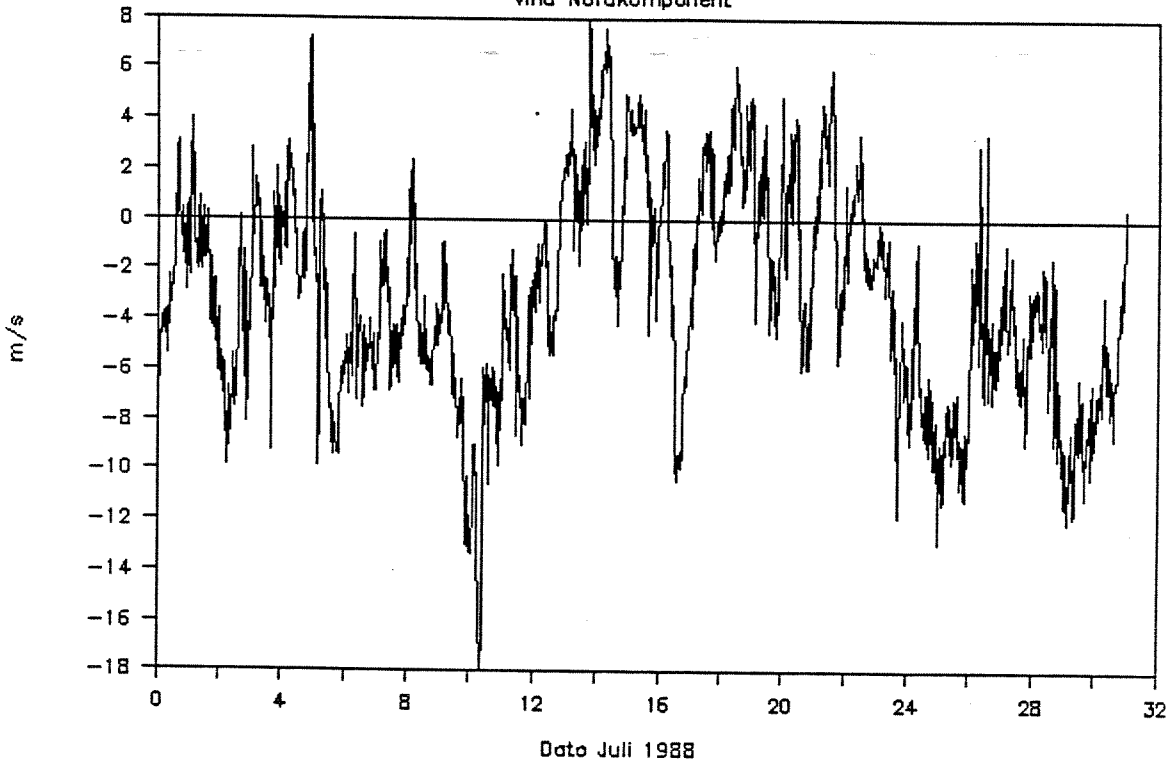
Vaerstasjon Rauer

Vindgust fart

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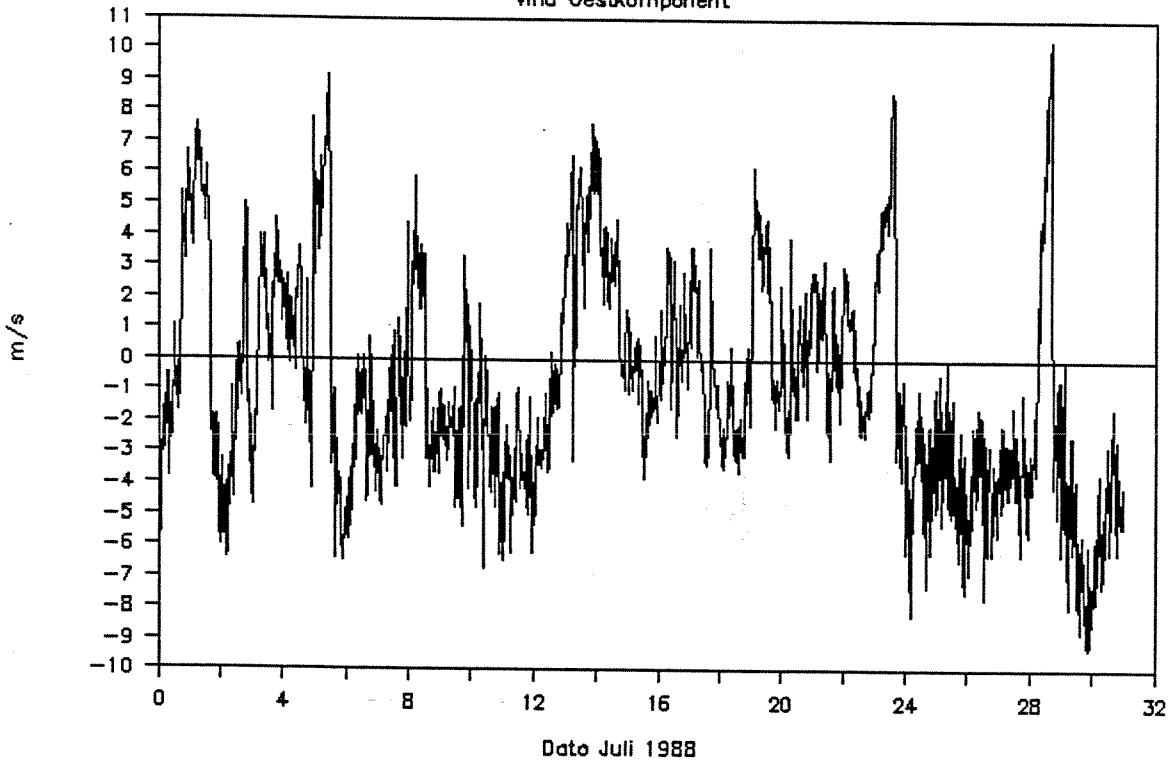
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Vind Nordkomponent



Vaerstasjon Rauer

Vind Oestkomponent

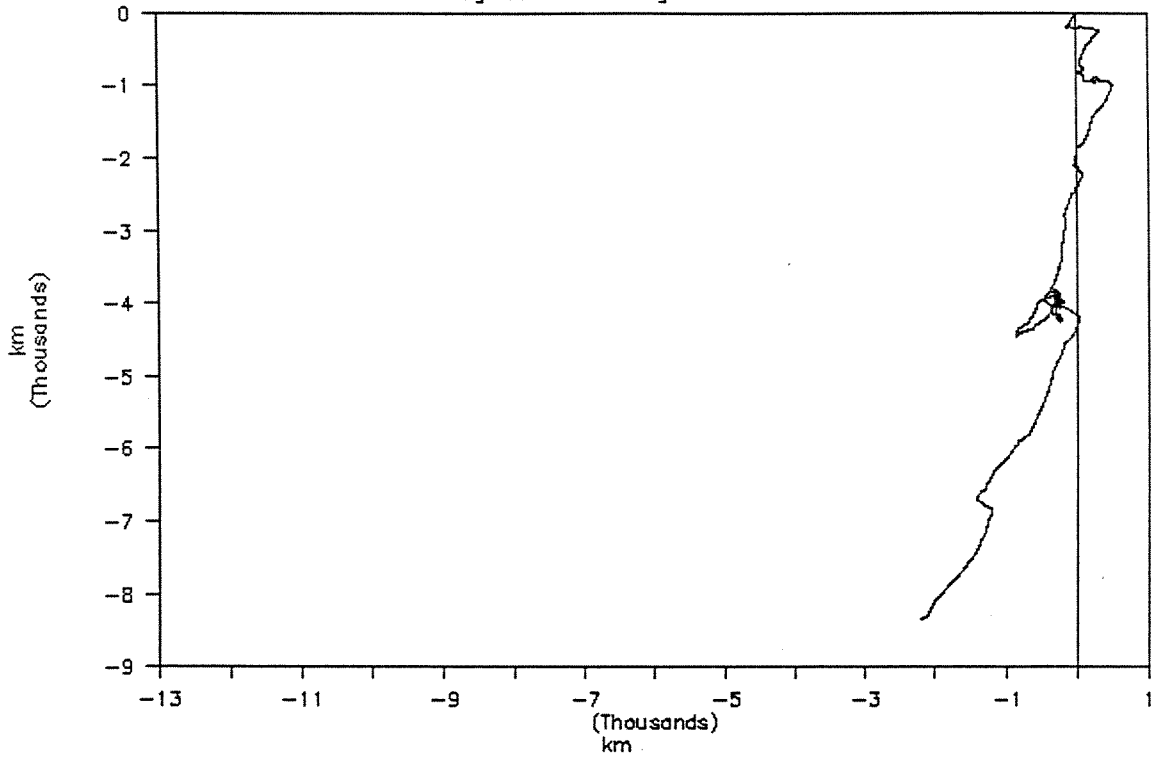


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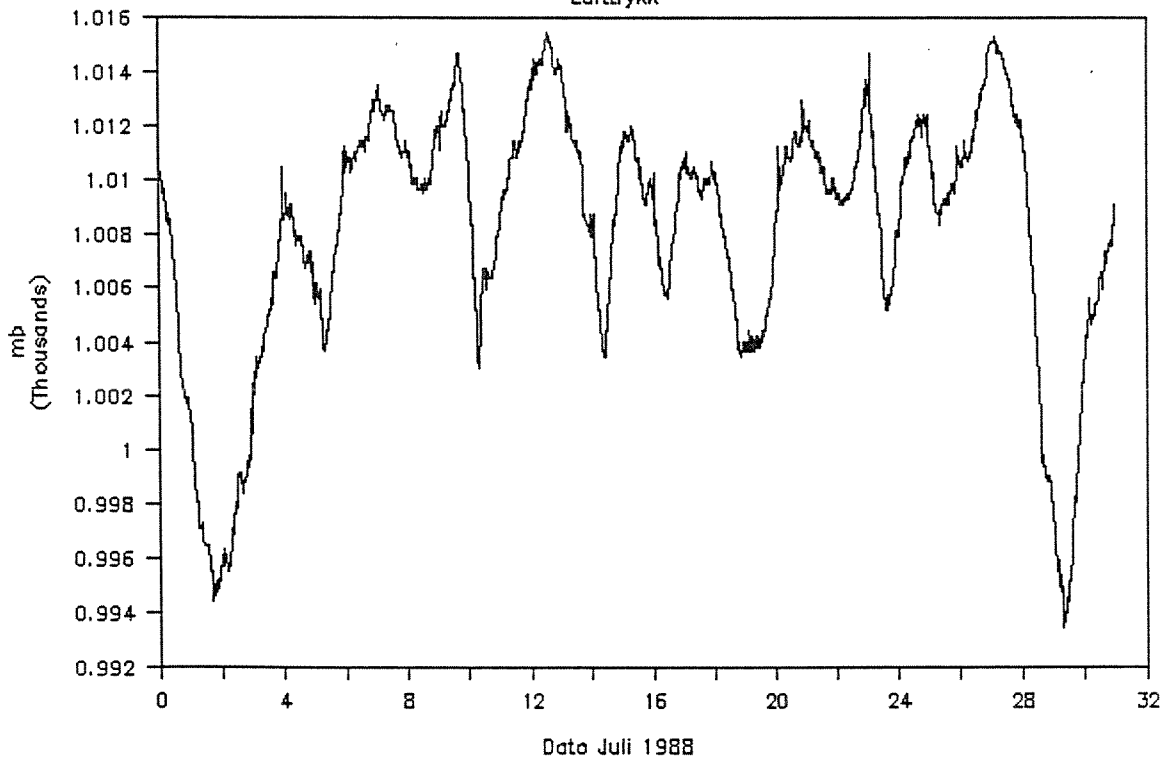
Vaerstasjon Rauer Juli 1988

Progressivt vektordiagram - Vind



Vaerstasjon Rauer

Luftrykk

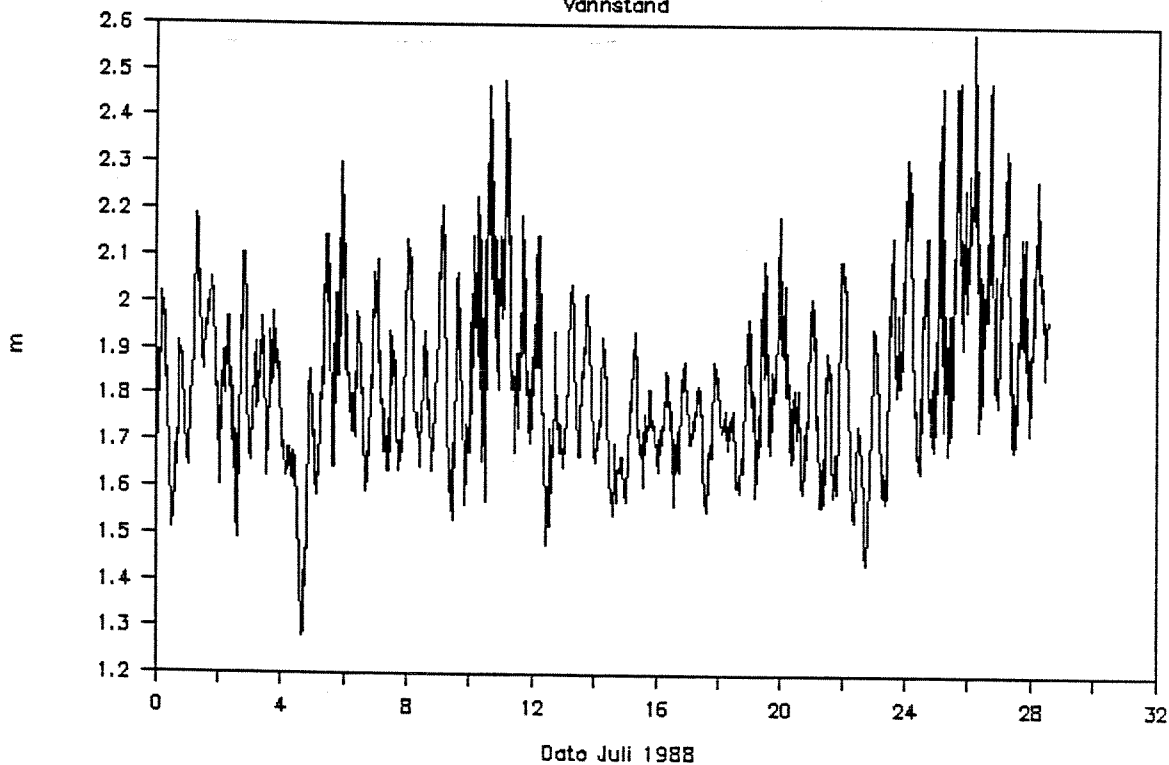


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Vaerstasjon Rauer

Vannstand

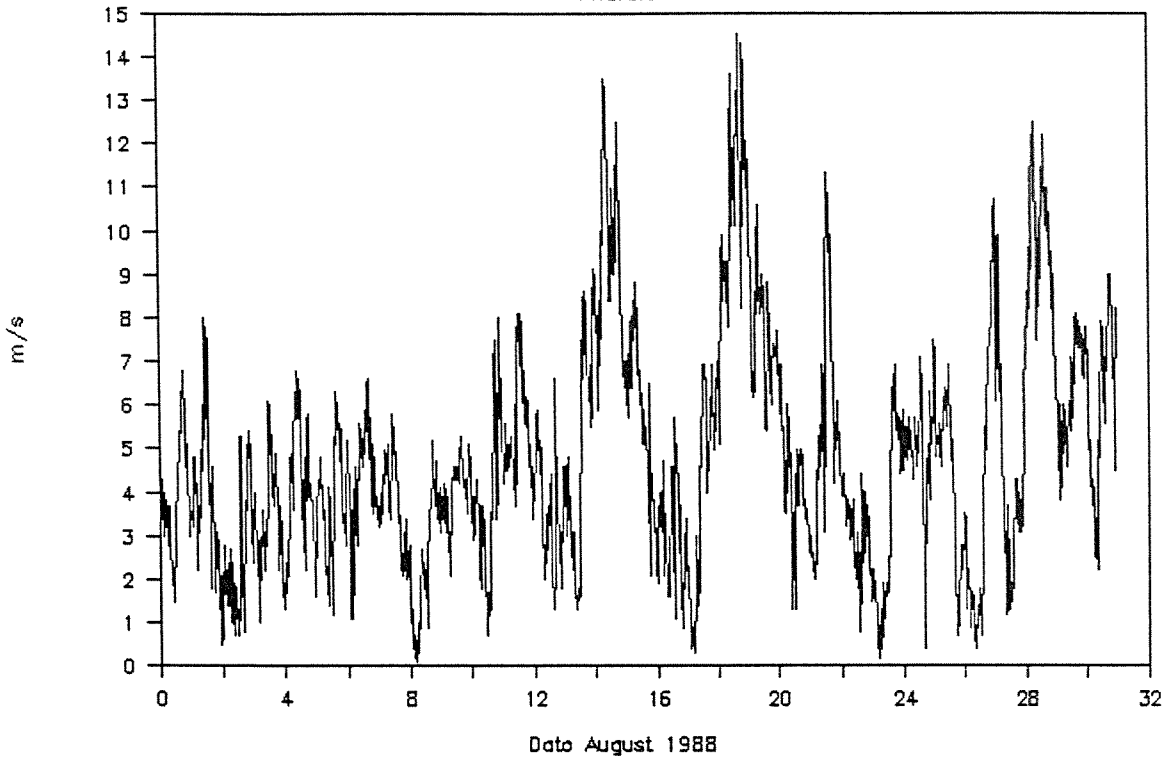


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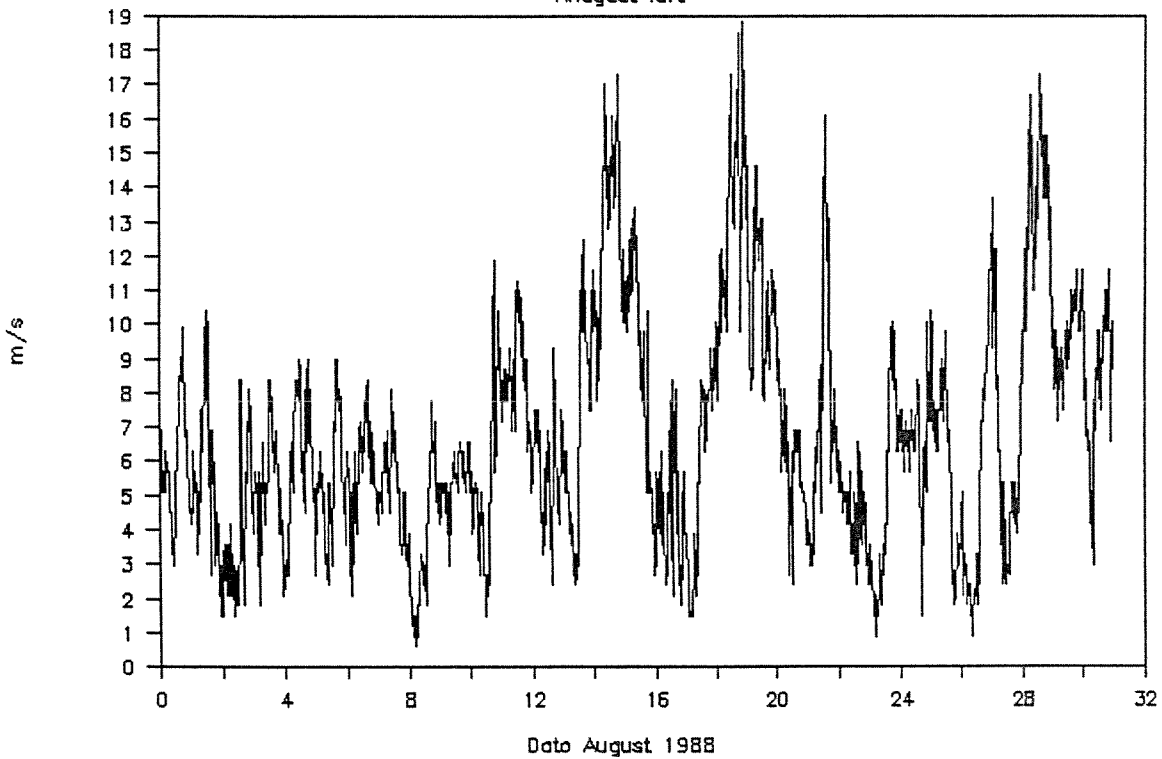
Vaerstasjon Rauer

Vindfart



Vaerstasjon Rauer

Vindgust fart

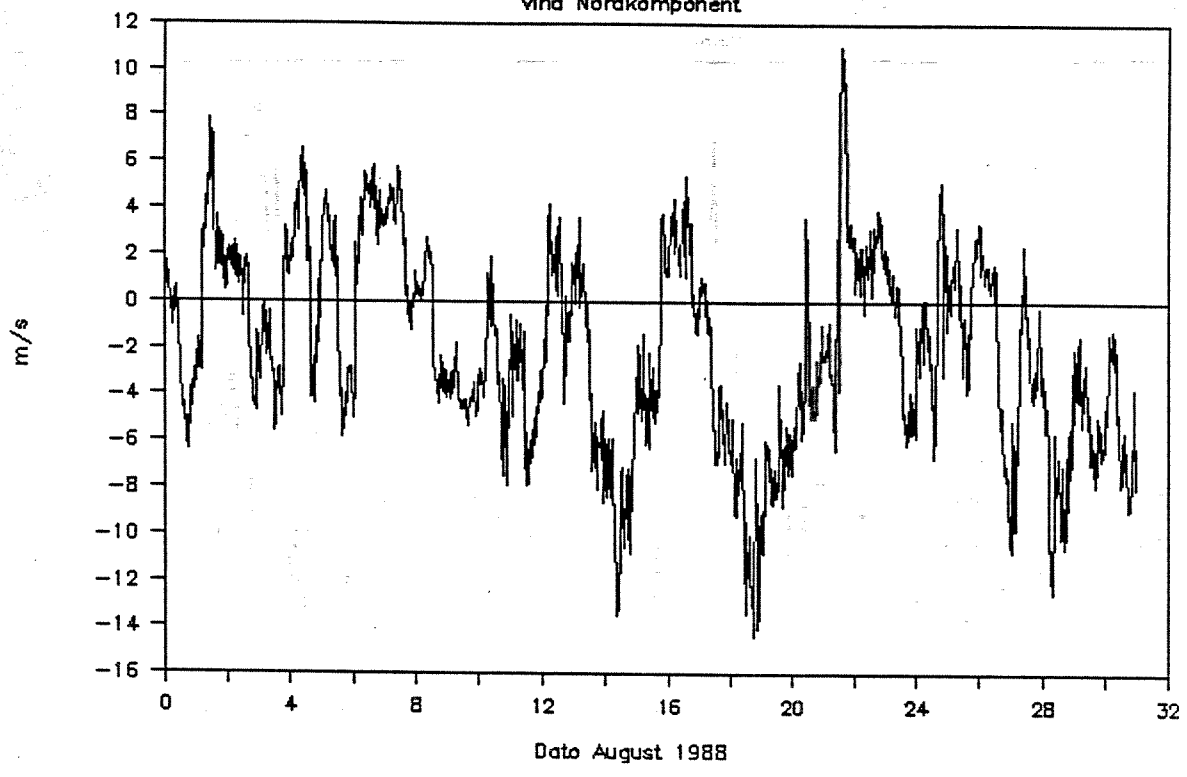


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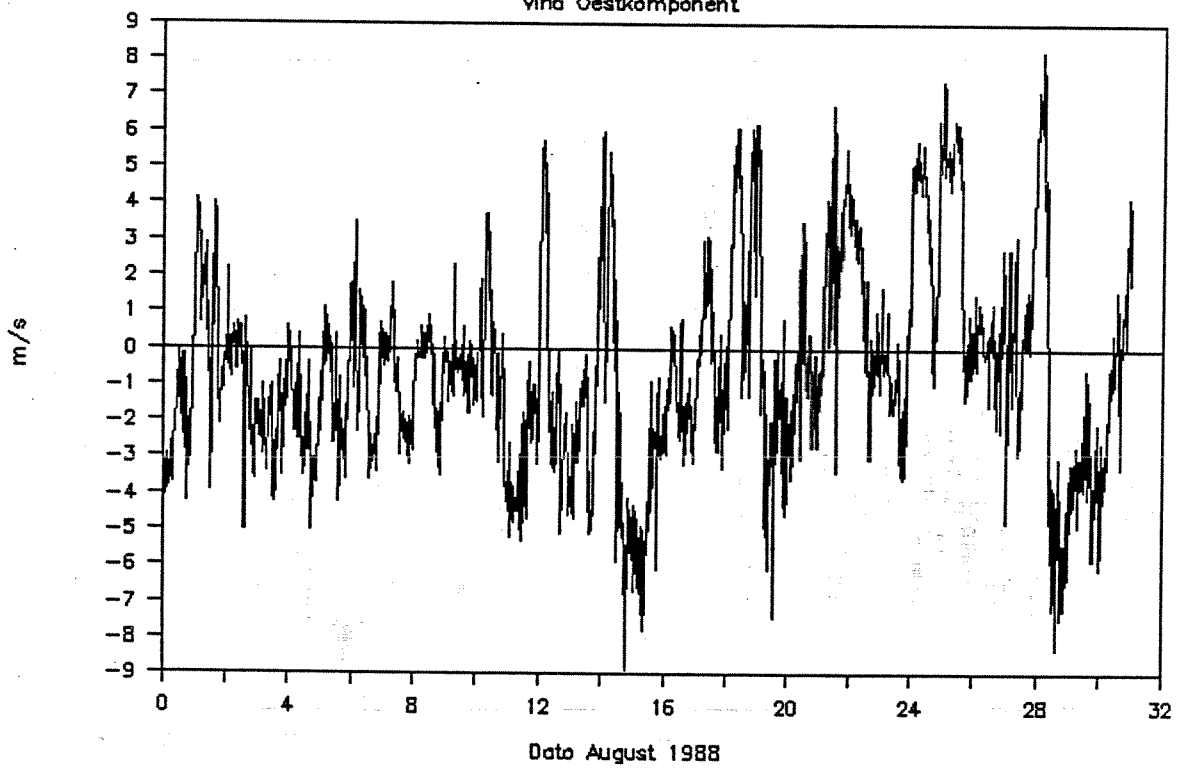
Vaerstasjon Rauer

Vind Nordkomponent



Vaerstasjon Rauer

Vind Oestkomponent

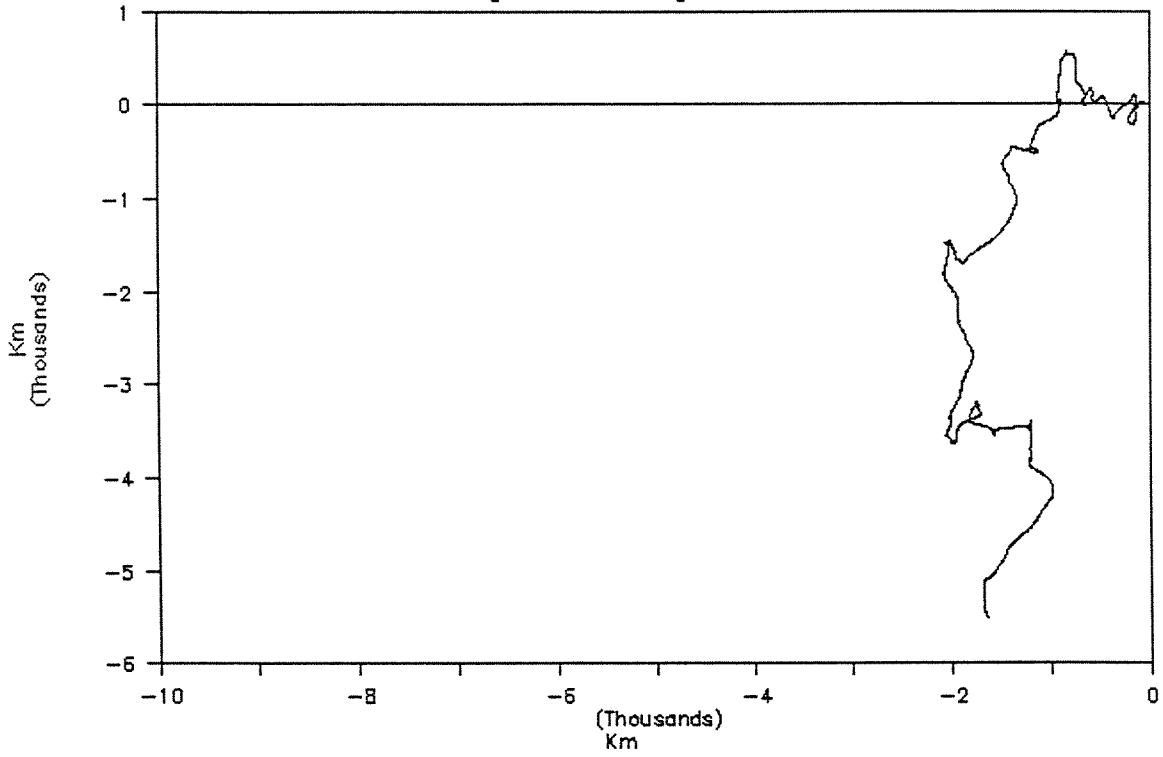


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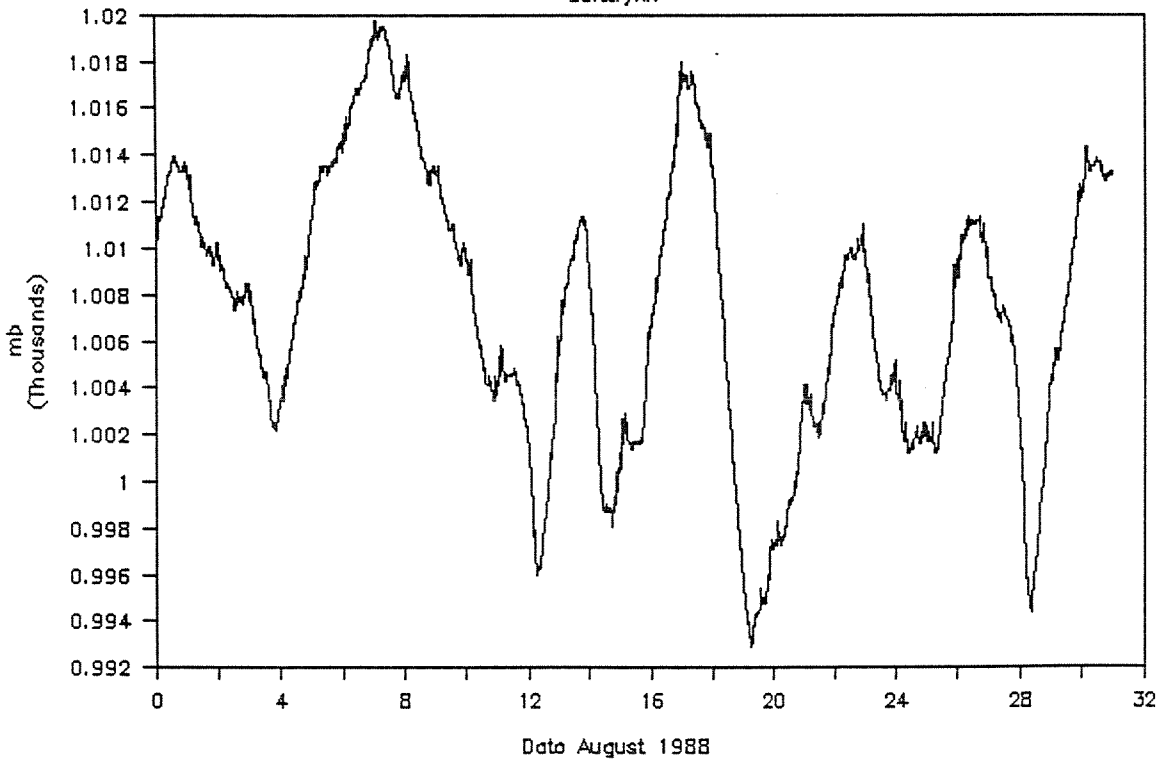
Vaerstasjon Rauer August 1988

Progressivt Vektordiagram Vind



Vaerstasjon Rauer

Lufttrykk

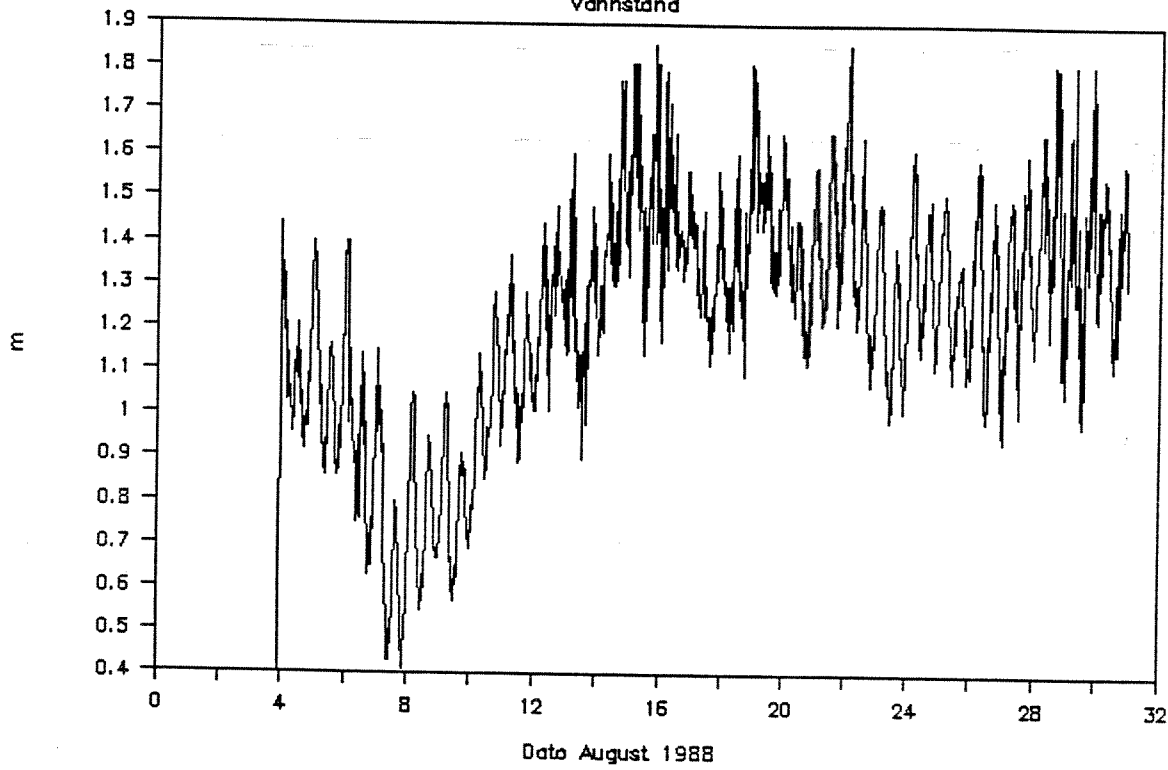


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Vannstand



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