

9/2/98

98 00136

## DATA SUBMISSION

**FILE NAME:** /usr/nodc/mitbob/9853003/knip32.txt, knip37.txt, knip38.txt, knip40.txt, knip42.txt, kras1933.txt, knip43.txt, mal1932.txt, pers40.txt, pers42.txt, pers43.txt, pers45.txt, pers46.txt

**PROBE NAME:** OBpolar

**TEMPORARY ACCESSION NUMBER:** 9853003

**NODC ACCESSION NUMBER:**

**SUBMITTING INSTITUTE:**

**SUBMITTING PRINCIPAL INVESTIGATOR:**

**PROJECT:** archeology and rescue

**DATA TYPE:** station data

**PARAMETERS:** sal, temp, oxy, PO4, NO2, pH, SiO4

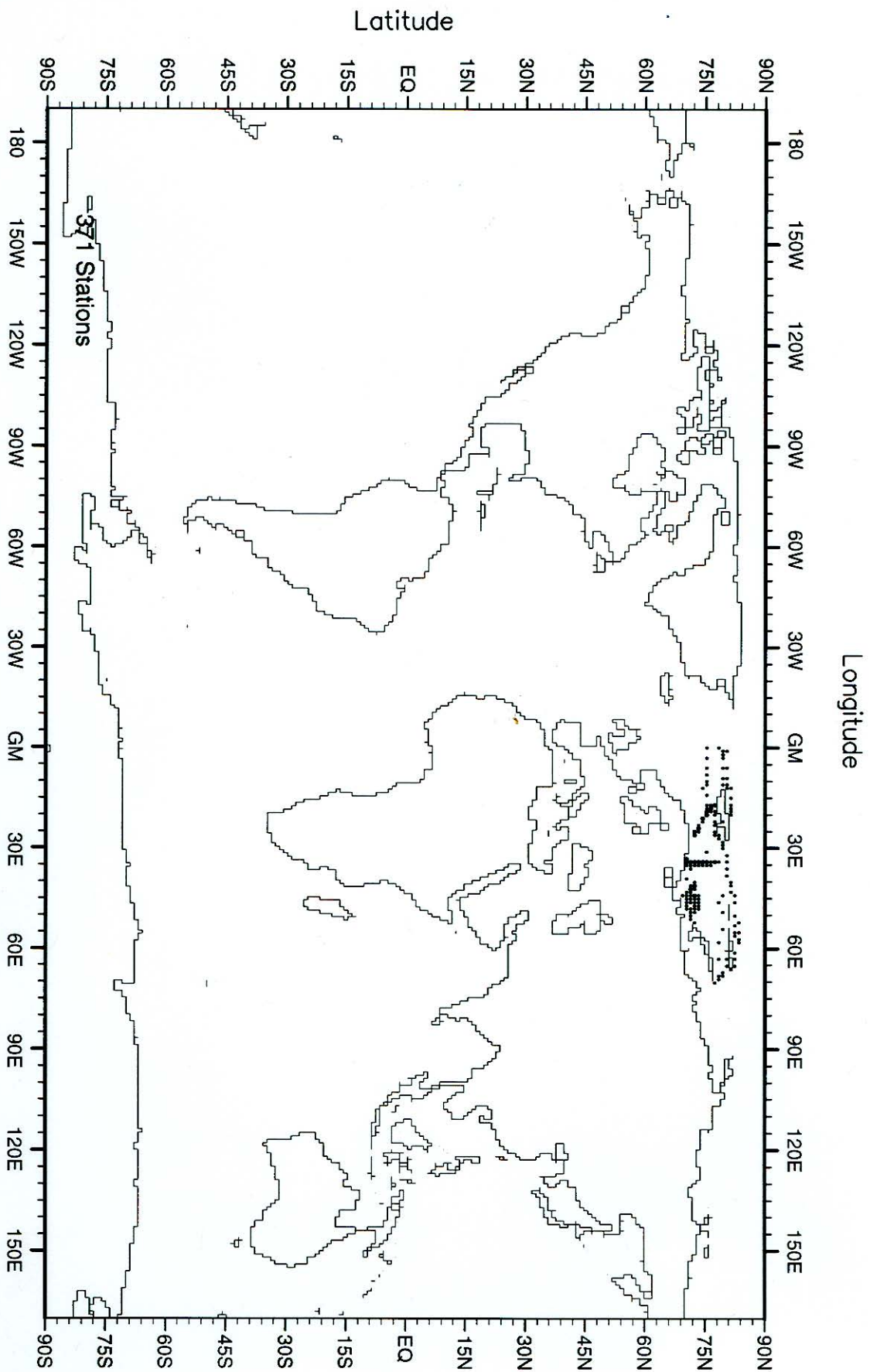
**TOTAL PROFILES:** 371

**SUBMITTING MEDIA:** manuscript

**FORMAT:** ascii text

\* + this doc  
e-m2. v  
230,400 bytes  
acc 98-1

**NOTE:** ALL DATA ARE TO BE PLACED IN /usr/nodc/mitbob UNDER A DIRECTOR NAMED WITH THE TEMPORARY ACCESSION NUMBER. SET PERMISSIONS TO "chmod 777"



Barents Sea expeditions for 1932-1933 yy. - 9853003

13 0 9853003  
/usr/users/olga/dataPC.dir/polar  
knip32.csv  
knip37.csv  
knip38.csv  
knip40.csv  
knip42.csv  
kras1933.csv  
knip43.csv  
mal1932.csv  
pers40.csv  
pers42.csv  
pers43.csv  
pers45.csv  
pers46.csv

## CRUISE INDEX

CC	Cruise	Inst	Plat	#Stations	Acc#	Start Date	End Date	WMO	Orig	Code
----	--------	------	------	-----------	------	------------	----------	-----	------	------

90	2032	975	6473	34	9853003	8/19/1932	9/10/1932	1	32	
90	9040	975	6513	48	9853003	8/30/1932	9/28/1932	1	40	
90	8	847	6449	7	9853003	8/31/1932	9/ 3/1932	1	VAI	
90	3037	975	6473	32	9853003	1/14/1933	2/13/1933	1	37	
90	10042	975	6513	10	9853003	1/31/1933	2/ 4/1933	1	42	
90	4038	975	6473	15	9853003	4/26/1933	4/29/1933	1	38	
90	11043	975	6513	40	9853003	5/13/1933	5/30/1933	1	43	
90	5040	847	6473	79	9853003	5/27/1933	6/21/1933	1	40	
90	6042	847	6473	46	9853003	7/24/1933	8/ 3/1933	1	42	
90	12045	975	6513	38	9853003	9/ 2/1933	9/20/1933	1	45	
90	7043	847	6473	5	9853003	9/ 6/1933	9/ 8/1933	1	43	
90	6006	847	6431	1	9853003	10/ 5/1933	10/ 5/1933	1		
90	13046	847	6513	16	9853003	10/23/1933	10/28/1933	1	46	

TOTAL PROFILES: 371

MEASURED PARAMETERS

Temperature	371
Salinity	366
Oxygen	193
Phosphate	228
Silicate	3
Nitrite	195
pH	221

SECOND HEADER PARAMETERS

Access#	371
Project	371
Platform	371
Institution	371
Station_Number	371
Orig_Stat_Num	371
Bottom_Depth	343
Water_Transpar	140
Sea_State	306
Wind_Force	317
Wind_Direction	309
Barometric_Pres	106
Dry_Bulb_Temp	269
Ref_Type	371
Nut_orig_unit	235

Time Series of OBpolar Temperature Data  
Total Number of Profiles = 371

YEAR	PROFILE	YEAR	PROFILE	YEAR	PROFILE	YEAR	PROFILE
1900	0	1909	0	1918	0	1926	0
1901	0	1910	0	1919	0	1927	0
1902	0	1911	0	1920	0	1928	0
1903	0	1912	0	1921	0	1929	0
1904	0	1913	0	1922	0	1930	0
1905	0	1914	0	1923	0	1931	0
1906	0	1915	0	1924	0	1932	89
1907	0	1916	0	1925	0	1933	282
1908	0	1917	0				

Time Series of OBpolar Salinity Data  
Total Number of Profiles = 366

YEAR	PROFILE	YEAR	PROFILE	YEAR	PROFILE	YEAR	PROFILE
1900	0	1909	0	1918	0	1926	0
1901	0	1910	0	1919	0	1927	0
1902	0	1911	0	1920	0	1928	0
1903	0	1912	0	1921	0	1929	0
1904	0	1913	0	1922	0	1930	0
1905	0	1914	0	1923	0	1931	0
1906	0	1915	0	1924	0	1932	85
1907	0	1916	0	1925	0	1933	281
1908	0	1917	0				



Time Series of OBpolar Oxygen Data  
 Total Number of Profiles = 193

YEAR	PROFILE	YEAR	PROFILE	YEAR	PROFILE	YEAR	PROFILE
1900	0	1909	0	1918	0	1926	0
1901	0	1910	0	1919	0	1927	0
1902	0	1911	0	1920	0	1928	0
1903	0	1912	0	1921	0	1929	0
1904	0	1913	0	1922	0	1930	0
1905	0	1914	0	1923	0	1931	0
1906	0	1915	0	1924	0	1932	53
1907	0	1916	0	1925	0	1933	140
1908	0	1917	0				

Time Series of OBpolar Phosphate Data  
 Total Number of Profiles = 228

YEAR	PROFILE	YEAR	PROFILE	YEAR	PROFILE	YEAR	PROFILE
1900	0	1909	0	1918	0	1926	0
1901	0	1910	0	1919	0	1927	0
1902	0	1911	0	1920	0	1928	0
1903	0	1912	0	1921	0	1929	0
1904	0	1913	0	1922	0	1930	0
1905	0	1914	0	1923	0	1931	0
1906	0	1915	0	1924	0	1932	73
1907	0	1916	0	1925	0	1933	155
1908	0	1917	0				

Time Series of OBpolar Nitrite Data  
 Total Number of Profiles = 195

YEAR	PROFILE	YEAR	PROFILE	YEAR	PROFILE	YEAR	PROFILE
1900	0	1909	0	1918	0	1926	0
1901	0	1910	0	1919	0	1927	0
1902	0	1911	0	1920	0	1928	0
1903	0	1912	0	1921	0	1929	0
1904	0	1913	0	1922	0	1930	0
1905	0	1914	0	1923	0	1931	0
1906	0	1915	0	1924	0	1932	71
1907	0	1916	0	1925	0	1933	124
1908	0	1917	0				

Time Series of OBpolar Silicate Data  
 Total Number of Profiles = 3

YEAR	PROFILE	YEAR	PROFILE	YEAR	PROFILE	YEAR	PROFILE
1900	0	1909	0	1918	0	1926	0
1901	0	1910	0	1919	0	1927	0
1902	0	1911	0	1920	0	1928	0
1903	0	1912	0	1921	0	1929	0
1904	0	1913	0	1922	0	1930	0
1905	0	1914	0	1923	0	1931	0
1906	0	1915	0	1924	0	1932	0
1907	0	1916	0	1925	0	1933	3
1908	0	1917	0				



Time Series of OBpolar pH Data  
Total Number of Profiles = 221

YEAR	PROFILE	YEAR	PROFILE	YEAR	PROFILE	YEAR	PROFILE
1900	0	1909	0	1918	0	1926	0
1901	0	1910	0	1919	0	1927	0
1902	0	1911	0	1920	0	1928	0
1903	0	1912	0	1921	0	1929	0
1904	0	1913	0	1922	0	1930	0
1905	0	1914	0	1923	0	1931	0
1906	0	1915	0	1924	0	1932	63
1907	0	1916	0	1925	0	1933	158
1908	0	1917	0				

```
-----
Final Count:          371 profiles checked
-----
```

```

0 "Pressure Problems"
0 "Depth Precision Problems"
0 ">= 6000 levels" Warnings
0 ">= 9000 meters" Warnings
0 "< 0 meters (negative z)" Warnings
0 "2nd Hdr Errors"
0 "Bio Hdr Errors"
0 bad Country-Code profiles
0 deptherr profiles

```

Totally missing	Exactly zero	Under- valued	Over- valued	ASCII Rounderr	
	0	0	0	0	Temperature
	0	0	0	0	Salinity
	0	0	0	0	Oxygen
	0	0	0	0	Phosphate
	0	0	0	0	TotalPhos
	0	0	0	0	Silicate
	0	0	0	0	Nitrite
	0	0	0	0	Nitrate
	0	0	0	0	pH
	0	0	0	0	Ammonia
	0	0	0	0	Chlorophyll
	0	0	0	0	Phaeophytin
	0	0	0	0	PrimaryProd
	0	0	0	0	Biochem
	0	0	0	0	LightCl4
	0	0	0	0	DarkCl4
	0	0	0	0	Alkalinity
	0	0	0	0	POC
	0	0	0	0	DOC
	0	0	0	0	pCO2
	0	0	0	0	tCO2
	0	0	0	0	XCO2sea
	0	0	0	0	NO2NO3
	0	0	0	0	Transmissiv
	0	0	0	0	Pressure
	0	0	0	0	Conductivit
0	0	0	0	0	SECOND HEADERS
0	371				- Station_Number
371	0				- TS-Probe
	0				- Depth Precision

File Index (in /OCL/data/PROBE/masks/other/\*):

```

AC_sigout.4   = most parameter and header problems
AC_uniqstat.d = missing/zero-val Unique Station hdrs
AC_tsprobe.d  = missing/zero-val TS-probe hdrs
AC_depthprec.d = depth-precision under-valued
AC_badcc.s    = bad Country-Code profiles
AC_deptherr.d = depth errors / inversions
AC_9000z.d    = depth values > 9000 meters
AC_0z.d       = depth values < 0 meters

```

## PROBE AND PARAMETER INFORMATION

- 1 Probe Types
- 26 Measured Parameter Types
- 5 Calculated Parameter Types

PLACE AN 'x' IN THE FIRST COLUMN IN FRONT OF DESIRED PARAMETERS AND PROBES. (EXCEPT FOR PTEMP AND PDENSE: PLEASE CONSULT MANUAL) ALSO PLACE AN 'x' IN FRONT OF EITHER OBSERVED OR STANDARD LEVELS (BUT NOT BOTH)

## Measured Parameter Information

Parameter	# Code	1 Let Code	4 Let Code
xTemperature	1	t	Temp
Salinity	2	s	Sal
xOxygen	3	o	O2
xPhosphate	4	p	PO4
xTotalPhos	5	q	TotP
xSilicate	6	i	SiO4
xNitrite	7	m	NO2
xNitrate	8	n	NO3
xpH	9	h	PH
xAmmonia	10	a	NH3
xChlorophyll111		c	Chl
xPhaeophytin12		e	Pha
xPrimaryProd13		l	PP
xBiochem	14	x	BP
xLightC14	15	b	LC
xDarkC14	16	d	DC
xAlkalinity	17	f	ALK
xPOC	18	g	POC
xDOC	19	h	DOC
xPCO2	20	j	pCO2
xtCO2	21	k	tCO2
xXCO2sea	22	u	xCOs
xNO2NO3	23	r	NTRZ
xTransmissiv24		v	Tran
xPressure	25	w	Pres
xConductivit26		y	Cond

## Probe Information

xObserved Levels

Standard Levels

Type	# Code	#Parms	Parameters
xOBpolar	1	26	1-26

## Calculated Parameter Information

Please see manual for information on potential temperature and potential density calculated parameters.

Parameter	# Code	1 Let Code	4 Let Code	surrogate
pTEMP	1-11	T	PTEM	2
pdensity	12-23	D	PDEN	2
stability	24	S	stab	2
AOU	25	A	AOU	3
%O2	26	O	%O2	3

## Observation Count for OBpolar Temperature

LEVEL	DEPTH	NUMBER OF OBS
----	-----	-----
01	0.	364.
02	10.	367.
03	20.	4.
04	30.	368.
05	50.	365.
06	75.	326.
07	100.	296.
08	125.	18.
09	150.	250.
10	200.	219.
11	250.	162.
12	300.	94.
13	400.	40.
14	500.	25.
15	600.	2.
16	700.	0.
17	800.	13.
18	900.	0.
19	1000.	13.
20	1100.	0.
21	1200.	0.
22	1300.	2.
23	1400.	0.
24	1500.	7.
25	1750.	0.
26	2000.	1.
27	2500.	0.
28	3000.	0.
29	3500.	0.
30	4000.	0.
31	4500.	0.
32	5000.	0.
33	5500.	0.

## Observation Count for OBpolar Salinity

LEVEL	DEPTH	NUMBER OF OBS
----	-----	-----
01	0.	360.
02	10.	360.
03	20.	4.
04	30.	362.
05	50.	357.
06	75.	320.
07	100.	294.
08	125.	18.
09	150.	246.
10	200.	213.
11	250.	157.
12	300.	91.
13	400.	39.
14	500.	25.
15	600.	2.
16	700.	0.
17	800.	13.
18	900.	0.
19	1000.	13.
20	1100.	0.
21	1200.	0.
22	1300.	2.
23	1400.	0.
24	1500.	7.
25	1750.	0.
26	2000.	1.
27	2500.	0.
28	3000.	0.
29	3500.	0.
30	4000.	0.
31	4500.	0.
32	5000.	0.
33	5500.	0.



## Observation Count for OBpolar Oxygen

LEVEL	DEPTH	NUMBER OF OBS
----	----	-----
01	0.	175.
02	10.	163.
03	20.	1.
04	30.	185.
05	50.	185.
06	75.	85.
07	100.	141.
08	125.	7.
09	150.	46.
10	200.	102.
11	250.	50.
12	300.	45.
13	400.	16.
14	500.	10.
15	600.	0.
16	700.	0.
17	800.	2.
18	900.	0.
19	1000.	2.
20	1100.	0.
21	1200.	0.
22	1300.	1.
23	1400.	0.
24	1500.	0.
25	1750.	0.
26	2000.	1.
27	2500.	0.
28	3000.	0.
29	3500.	0.
30	4000.	0.
31	4500.	0.
32	5000.	0.
33	5500.	0.

## Observation Count for OBpolar Phosphate

LEVEL	DEPTH	NUMBER OF OBS
----	-----	-----
01	0.	221.
02	10.	172.
03	20.	1.
04	30.	219.
05	50.	216.
06	75.	109.
07	100.	177.
08	125.	10.
09	150.	48.
10	200.	130.
11	250.	58.
12	300.	56.
13	400.	18.
14	500.	11.
15	600.	0.
16	700.	0.
17	800.	2.
18	900.	0.
19	1000.	2.
20	1100.	0.
21	1200.	0.
22	1300.	0.
23	1400.	0.
24	1500.	0.
25	1750.	0.
26	2000.	1.
27	2500.	0.
28	3000.	0.
29	3500.	0.
30	4000.	0.
31	4500.	0.
32	5000.	0.
33	5500.	0.

## Observation Count for OBpolar Silicate

LEVEL	DEPTH	NUMBER OF OBS
----	-----	-----
01	0.	3.
02	10.	3.
03	20.	0.
04	30.	3.
05	50.	3.
06	75.	0.
07	100.	3.
08	125.	0.
09	150.	1.
10	200.	2.
11	250.	1.
12	300.	1.
13	400.	0.
14	500.	0.
15	600.	0.
16	700.	0.
17	800.	0.
18	900.	0.
19	1000.	0.
20	1100.	0.
21	1200.	0.
22	1300.	0.
23	1400.	0.
24	1500.	0.
25	1750.	0.
26	2000.	0.
27	2500.	0.
28	3000.	0.
29	3500.	0.
30	4000.	0.
31	4500.	0.
32	5000.	0.
33	5500.	0.

## Observation Count for OBpolar Nitrite

LEVEL	DEPTH	NUMBER OF OBS
----	-----	-----
01	0.	181.
02	10.	117.
03	20.	1.
04	30.	190.
05	50.	186.
06	75.	94.
07	100.	146.
08	125.	8.
09	150.	45.
10	200.	108.
11	250.	50.
12	300.	49.
13	400.	17.
14	500.	12.
15	600.	0.
16	700.	0.
17	800.	3.
18	900.	0.
19	1000.	2.
20	1100.	0.
21	1200.	0.
22	1300.	1.
23	1400.	0.
24	1500.	0.
25	1750.	0.
26	2000.	1.
27	2500.	0.
28	3000.	0.
29	3500.	0.
30	4000.	0.
31	4500.	0.
32	5000.	0.
33	5500.	0.

## Observation Count for OBpolar pH

LEVEL	DEPTH	NUMBER OF OBS
----	-----	-----
01	0.	215.
02	10.	213.
03	20.	1.
04	30.	218.
05	50.	213.
06	75.	164.
07	100.	172.
08	125.	9.
09	150.	101.
10	200.	127.
11	250.	77.
12	300.	58.
13	400.	20.
14	500.	12.
15	600.	0.
16	700.	0.
17	800.	3.
18	900.	0.
19	1000.	2.
20	1100.	0.
21	1200.	0.
22	1300.	1.
23	1400.	0.
24	1500.	0.
25	1750.	0.
26	2000.	1.
27	2500.	0.
28	3000.	0.
29	3500.	0.
30	4000.	0.
31	4500.	0.
32	5000.	0.
33	5500.	0.