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# Norsk Oseanografisk Datasenter (NOD)

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Oceanographic Cruise Programmes  
(Planned)

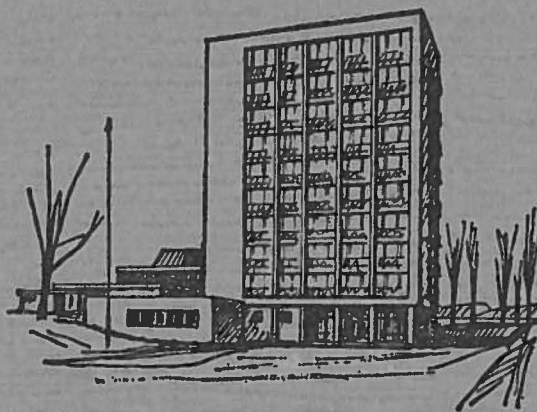
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1978

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*January 1978*



FISKERIDIREKTORATETS HAVFORSKNINGSINSTITUTT  
BERGEN

# NOD

NORSK OSEANOGRAFISK DATASENTER  
FISKERIDIREKTORATETS HAVFORSKNINGSINSTITUTT  
LARS HILLEGATE 26 - BERGEN

Postboks 1870 / 72  
5011 Nordnes  
Norway

TELEFON: (05) 23 03 00  
TELEX: 42 297 OCEAN N  
CABEL ADRESS: METOCEAN

./.. Vedlagt følger en oversikt over planlagte tokter for 1978.

Vi takker for tilsendte toktplaner og derved Deres hjelp til at denne oversikt kan bli ferdig så tidlig på året som mulig.

Vi ønsker fortsatt Deres toktprogram tilsendt som en fast rutine.

Bergen, 9.februar 1978



Kirsten R. Arnesen

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## INTRODUCTION

This report of the Norwegian Research Vessels Cruise Programme is produced annually for the information of the International Council for the Exploration of the Sea and the Intergovernmental Oceanographic Commission, at their request.

It may also be of interest and use to scientists wishing to know the nature of the research being carried out and the areas in which the ships will be operating.

Attempts to include all research vessels have been made. The Cruise Programmes are comprehensive for the Institute of Marine Research, Bergen, less so for other Institutions. This report include also programmes for vessels chartered, amongst them the Ocean Weather Ships.

With the assistance of Governmental Institutions and Universities, this report is compiled by

Norsk Oseanografisk Datasenter  
P.O. Box 1870/72  
5011 - Bergen - Nordnes  
NORWAY.

SCIENTIFIC CLASSIFICATIONS:

- Ab Biological aphotic zone studies (biological studies in waters deeper than several hundred meters).
- Cm Current measurements (by direct method, such as GEK, current meters, drogues, Swallow floats etc.).
- DNP Declared national programme, cruises generating data considered suitable for inclusion in the international marine base of the World Data Center (WDC) system.
- Do Descriptive oceanography (measurements of temperature, salinity and other dissolved substances required for computation of geostrophic currents and description of water properties).
- Fr Fisheries research (exploratory fishing, bionomics, sampling, selectivity, tagging, gear experiments, etc.).
- MS Marsden square.
- Mt Meteorology (upper air observations - surface weather observations included under "Do").
- Ps Planktonic studies (phyto- and zooplankton research including fish eggs and larvae, standing crop and primary production, associated measurements or observations mainly in the biological euphotic zone).
- Gg Geology and geophysics (coring, dredging, seismic studies, heat flow, gravimetric, magnetic measurements, etc.).

ABBREVIATIONS:

FD            Directorate of Fisheries, Bergen.

FHI           Institute of Marine Research, Bergen.

FFIU          Norwegian Defense Research Establishment,  
Division for Underwater Warfare, Horten.

MI            Meteorological Institute, Oslo.

TBSt          Trondheim Biological Station,  
University of Trondheim.

UIB           University of Bergen.

UIT           University of Tromsø.

VHL           River and Harbour Laboratory,  
Norwegian Institute of Technology.

R/V "G.O. SARS"

Tonnage: 1445 BRT                      Length of ship: 230 feet

Owner and operating agency: Institute of Marine Research, FD.

CRUISE DATE	CRUISE AREA	PROGRAMME	COMMENTS	
6/1 - 28/1	Barents Sea 252, 251, 250, 286, 285	Fr, Do	Capelin	DNP
30/1 - 15/3	Barents Sea 252, 251, 250, 286, 285	Fr, Do	Cod, Haddock Capelin	DNP
29/3 - 15/4	Norwegian Sea 252, 253, 217	Fr, Do	Fishery resources Environmental studies	DNP
17/4 - 12/5	Norwegian Coast, W. Barents Sea 250-287	Fr, Do	Redfish Blue Whiting	DNP
12/5 - 9/6	Annual maintenance			
11/6 - 20/7	Barents Sea 252, 251, 250, 286, 285	Fr, Do, Ps	Herring, Blue Whiting Capelin	DNP
23/7 - 11/8	North Sea 252, 216	Fr, Do	Fishery resources	DNP
17/8 - 16/9	Barents Sea 252, 251, 250, 249, 248, 284	Fr, Do	0-group	DNP
16/9 - 14/10	Barents Sea	Fr, Do	Capelin	DNP
16/10 - 14/11	Norwegian Sea Barents Sea 252, 251, 250, 284, 285, 286	Fr, Do	Cod, Haddock, Redfish, Blue Whiting	DNP
14/11 - 12/11	Skagerrak, North 216                      Sea	Fr, Do, Cm	Fishery Resources Coastal current	DNP

R/V "JOHAN HJORT"

Tonnage: 697 BRT

Length of ship: 172 feet

Owner and operating agency: Institute of Marine Research, FD.

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CRUISE DATE	CRUISE AREA	PROGRAMME	COMMENTS
6/1 - 3/2	North Sea 252, 216, 181	Fr, Do	Mackerel, Blue Whiting DNP
6/2 - 15/3	North Sea, Norwegian Coast 252, 216	Fr, Do Cm	International Young Herring Survey Environmental studies DNP
29/3 - 30/4	Norwegian Coast 252, 251, 250, 249	Fr, Do Ps	Herring larvae - Plancton studies DNP
1/5 - 25/5	Annual maintenance		
31/5 - 5/7	North Sea 252, 216	Fr, Ps, Do	International Young Herring survey, Hydrography, 0-group: Norway pout, Sandeel, Mackerel DNP
10/7 - 5/8	North Sea 216, 252	Fr, Do	Fishery Resources DNP
17/8 - 16/9	Barents Sea 252, 251, 250, 249, 284, 285	Fr, Do	International 0-group survey, Herring, Blue Whiting DNP
16/9 - 5/10	Barents Sea 252, 251, 250, 286, 285	Fr, Do	Capelin DNP
16/10 - 27/10	North Sea 216, 252	Fr, Ps Do	International Herring-larvae survey DNP
1/11 - 15/12	North Sea 216, 252	Fr, Do	Blue Whiting, Mackerel DNP



R/V "PEDER RØNNESTAD"

Tonnage: 126 BRT

Length of ship: 86 feet

Owner and operating agency: Institute of Marine Research, FD.

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CRUISE DATE	CRUISE AREA	PROGRAMME	COMMENTS	
Monthly	Norwegian fjord 216, 252	Ps, Fr, Do	Environment, + in the spring Calanus finmarchicus	DNP
9/1 - 14/1	Norwegian fjords 216, 252	Fr, Do	Acoustic (Sprat)	DNP
23/1 - 26/1	Norwegian coast 216, 252	Ps, Fr, Do	Aquaculture	DNP
1/2 - 11/2	Norwegian fjords 252	Fr, Do	Acoustic (Sprat)	DNP
19/2 - 4/3	Lofoten 250	Fr, Do	Arctic Cod	DNP
6/3 - 20/3	Coast of Northern Norway 249	Ps, Fr, Do	Aquaculture	DNP
28/3 - 1/4	Norwegian fjord 252	Fr, Do	Acoustic (Sprat)	DNP
29/5 - 17/6	Western Norwegian fjords 250, 251, 252	Fr	Saithe (tagging)	
21/6 - 12/7	Annual maintenance			
17/7 - 1/9	North Sea - Skagerrak 181 - 216	Fr	Mackerel (tagging)	DNP
6/9 - 30/10	W.coast Finnmark 252, 251, 250, 249	Ps, Fr, Do	0-group Saithe Squid	DNP

R/V "G.M. DANNEVIG"

Tonnage: 55 BRT

Length of ship: 65 feet

Owner and operating agency: Biological Station, Flødevigen, FHI

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CRUISE DATE	CRUISE AREA MS	PROGRAMME	COMMENTS	
Monthly	Skagerrak 216	Do	Hydrography	DNP
Monthly	Oslofjord 216	Ps, Do	Base-line studies	DNP
Monthly	Norwegian coast	Ps, Do	Pollution	DNP
Monthly: in 2. quarter	Norwegian coast 216	Fr, Do	Shrimps	DNP
20/6 - 24/6	Norwegian coast 216	Ps, Do	Larvae - parr	DNP
11/9 - 29/9	Skagerrak 216	Fr, Do	0-group	DNP
9/10 - 27/10	Skagerrak 216	Fr, Do	Fishery research	DNP
20/11 - 24/11 27/11 - 1/12 and 4/12 - 8/12	216	Fr, Do	Fishing experi- ments	DNP

R/V "JOHAN RUUD"

Tonnage: 300 BRT

Length of ship: 100 feet

Owner: University of Tromsø.

CRUISE DATE	CRUISE AREA MS	PROGRAMME	COMMENTS	RESPONSIBLE AGENCY	
Monthly	Norw. fjord Skjomen - 250	Do	Hydrography	UIT	DNP
3/2 - 18/2	Lofoten 250	Fr, Do	Arctic Cod Hydrography	FHI	DNP
1/4 - 26/4	Lofoten 250	Fr,Do,Ps	Egg and larvae of Cod, hydrography	FHI	DNP
18/5 - 27/5	Norw. Coast	Gg (Do?)	Geology	UIT	DNP
11/6 - 24/6	Spitsbergen Bear Island 250, 251, 287, 286	Fr, (Do?)		UIT	DNP
27/6 - 22/7	Norw. Coast 286, 285	Ps	Juveniles	FHI	DNP
2/8 - 15/8	Jan Mayen 287, 286	Ps, (Do?)		UIT	DNP
29/8 - 16/9	Norw. coast 286, 285	Fr, (Do?)	Acoustics	FHI	DNP
3/10 - 11/10 24/10 - 29/10	Norw. fjords } 250	Ps, Do		UIT	DNP
1/12 - 15/12	Norw. Coast 216, 215, 250, 251, 252, 286, 285	Ps, Do	0-group (sprat/herring) Environment	FHI	DNP

In addition the vessel is in use for educational purposes in between the above dates.

R/V "Dr. FRIDTJOF NANSEN"

Tonnage: 600 - 700 BRT

Length of ship: 152 feet

Sub-contractor and operating agency: Institute of Marine Research.

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CRUISE DATE	CRUISE AREA MS	PROGRAMME	COMMENTS	
5/1 - 30/3	Mozambique (Indian Ocean) 403, 404, 367	Fr, Ps, Do	Fishery resources	DNP
April - June	Mozambique (Indian Ocean) 403, 404, 367	Fr, Ps, Do	Fishery resources	DNP

Further schedule for 1978 to be decided later.

Vessels chartered by the Institute of Marine Research, FD, Bergen.

R/V "HAVDRØN"

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CRUISE DATE	CRUISE AREA MS	PROGRAMME	COMMENTS	
30/1 - 4/3	Norwegian coast 252, 251, 250	Fr, Do	Herring (spawning ground)	DNP
6/3 - 25/3	Norwegian coast 252, 251, 250	Fr, Do	Herring (spawning grounds) Mackerel (tagging)	DNP
In April or June	North Sea 216, 181	Fr, (Do?)	Dogfish	
8/5 - 30/5	Atlantic 182	Fr, (Do?)	Mackerel (tagging)	DNP

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R/V "HARRY BORTHEN"

Tonnage: 48 BRT                      Length of ship: 64 feet  
Owner: Trondheim Biological Station.

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CRUISE DATE	CRUISE AREA MS	PROGRAMME	COMMENTS	RESPONSIBLE AGENCY
Various cruises, Norw. coast	251, 252	Fr, Do, Ps		TBSt.

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total estimated: 120 days at sea

R/V "H.U. SVERDRUP"

Tonnage: 295 BRT

Length of ship: 128 feet

Owner: Norwegian Defence Research Establishment,  
Division for Underwater Warfare.

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CRUISE DATE	CRUISE AREA MS	PROGRAMME	COMMENTS	RESPONSIBLE AGENCY	
Monthly	West Coast of Norway 216, 252	Cm	Current	VHL	
6/2 - 12/2	Norwegian coast 216			FFIU	
6/3 - 11/3	Maintenance				
12/3 - 22/3	Norwegian coast 216			FFIU	
4/4 - 7/5	Norwegian coast 251, 250			FFIU	
1/5 - 20/5	Norwegian coast Skagerrak 252, 216	Gg	Marine geology	UIB	DNP
12/6 - 5/7	Norwegian coast 249, 250, 251			FFIU	
24/7 - 13/8	Vaccation				
14/8 - 27/8	To be decided later			FFIU	
28/8 - 30/9	Norwegian Sea 287		Seismic studies	UIB	DNP
1/10 - 5/10	Oslofjord		Seismic studies	"Geoteam"	
3/10 - 31/10	To be decided later			FFIU	

OCEAN WEATHER STATIONS

The letters shown under the column "CRUISE AREA" indicate the ocean stations at the following positions:

Am - 71°30'N, 19°00'E  
 Fa - 57°30'N, 3°00'E  
 M - "Mike" 66°00'N, 2°00'E

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CRUISE DATE	CRUISE AREA	PROGRAMME	COMMENTS
<u>M/V "POLARFRONT"</u>			
Tonnage: 935 BRT		Length of ship: 180 feet	
6/2 - 12/3	M	Do	Data at UIB DNP
		Ps, Ab	Data at FHI
		Mt	Data at Meteorological Institute, Oslo

Alternating with Dutch vessel "Cumulus".  
 Further programmes to be decided later.

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<u>M/V "FAMITA"</u>			
September/December	Fa	Do	Data at FHI DNP
January/April			Also meteorological observations.

<u>M/V "AMI"</u>			
Preliminary until August 1978 (continously)	Am	Do	Data at FHI DNP
		Cm SI	Data at VHL
		Mt	Data at MI

Liste over NOD's publikasjoner

- Nr. 1 "OVERSIKT OVER OSEANOGRAFISKE STASJONER 1972"  
publisert mai 1973.
- Nr. 2 "STRØMMÅLINGSPROGRAMMER FOR UNIVAC 1100-serien"  
publisert mai 1973.
- Nr. 3 "OVERSIKT OVER OSEANOGRAFISKE STASJONER 1973"  
publisert 1974.
- Nr. 4 "PROSJEKTET DEN NORSKE KYSTSTRØM og Plan for et synoptisk  
experiment Mai - juni 1975"  
publisert mars 1975.
- Nr. 5 "LITTERATURLISTE for NORSKE KYSTFARVANN, fysisk, kjemisk  
og biologisk oseanografi samt marin geologi"  
publisert april 1975.
- Nr. 6 "OVERSIKT OVER OSEANOGRAFISKE STASJONER 1974"  
publisert mai 1975.
- Nr. 7 "KYSTSTRØMPROSJEKTET SYNOPTISK EKSPERIMENT 1975,  
OVERSIKT OVER INNSAMLEDE DATA"  
publisert august 1975.
- Nr. 8 "INTERNASJONALT REFERANSESYSTEM, International Referral  
System (IRS)"  
publisert januar 1976.
- Nr. 9 "KYSTSTRØMPROSJEKTET SYNOPTISK EKSPERIMENT 1975,  
HYDROGRAFISKE DATA"  
publisert februar 1976.
- Nr. 10 "OCEANOGRAPHIC CRUISE PROGRAMMES (planned), NORWAY 1976"  
publisert mars 1976.
- Nr. 11 "TO PROGRAMMER FOR PLOTTING AV HYDROGRAFISKE VERTIKALSNITT,  
SECT/KDS og SNITT/HR"  
publisert april 1976.



- Nr. 12 "STATUS-RAPPORT FOR AQUATIC SCIENCE AND FISHERIES  
INFORMATION SYSTEM (ASFIS)  
publisert mai 1976.
- Nr. 13 "SORTERING OG LAGRING AV OSEANOGRAFISKE MÅLEDATA VED NOD,  
SYSTEMDOKUMENTASJON" av Ø. Strand  
publisert mai 1976.
- Nr. 14 "SORTERING OG LAGRING AV OSEANOGRAFISKE MÅLEDATA VED NOD,  
PROGRAMBESKRIVELSE" av Ø. Strand  
publisert mai 1976.
- Nr. 15 "OVERSIKT OVER HYDROGRAFISKE STASJONER 1975"  
publisert september 1976.
- Nr. 16 "NORSK OSEANOGRAFI KATALOG OVER FORSKNINGSAKTIVITETER 1976"  
publisert desember 1976.
- Nr. 17 "OCEANOGRAPHIC CRUISE PROGRAMMES (planned), NORWAY 1977"  
publisert februar 1977.
- Nr. 18 "OVERSIKT OVER OSEANOGRAFISKE STASJONER 1976"  
publisert juli 1977.