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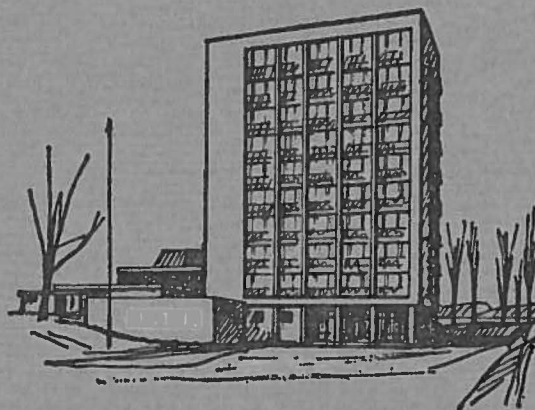
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Oceanographic Cruise Programmes
(Planned)

NORWAY
1979

Nr. 21

February 1979



FISKERIDIREKTORATETS HAVFORSKNINGSINSTITUTT
BERGEN

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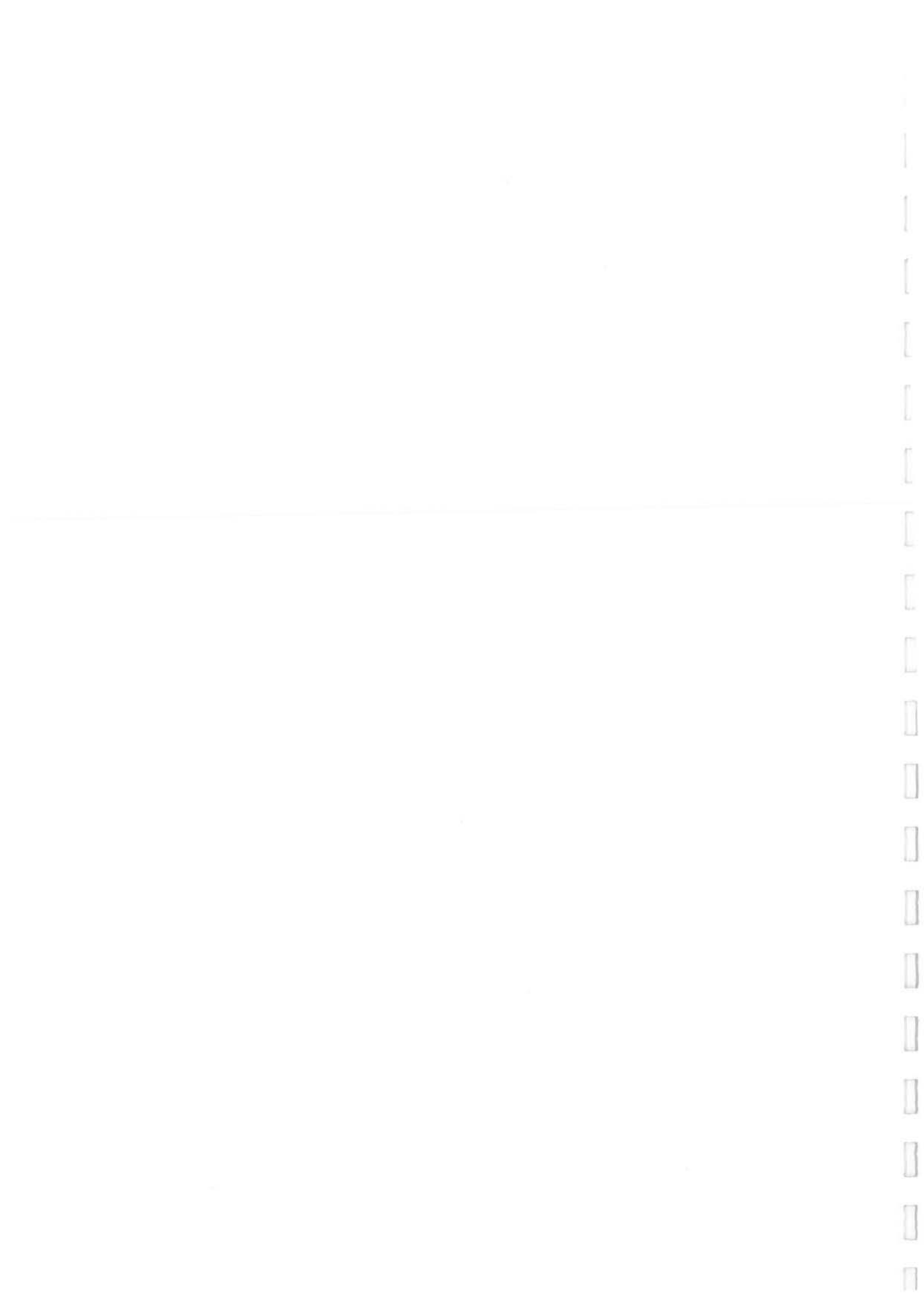
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INTRODUCTION

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

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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.).
- 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:

DNP	Declared National Programme
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.
NOP	National Oceanographic Programme
NORSEX	Norwegian Remote Sensing Experiment
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
5/1 - 31/1	Barents Sea 252, 251, 250, 286, 285	Fr, Do	Capelin DNP/NOP
2/2 - 26/3	Barents Sea 252, 251, 250, 286, 285	Fr, Do	Cod, haddock, other demersal species DNP/NOP
28/3 - 11/4	Norwegian coast 251, 252	Fr, Do	Fishery resources DNP/NOP Environmental studies
18/4 - 11/5	Norwegian Coast, W. Barents Sea 250-287	Fr, Do	Redfish, Environmental studies DNP/NOP
14/5 - 12/6	Annual maintenance		
13/6 - 24/7	Barents Sea 252, 251, 250, 286, 285	Fr, Do, Ps	Capelin DNP/NOP Capelin
30/7 - 28/8	Norwegian Sea 286, 287, 288, 253, 254	Fr, Do	Capelin resources DNP/NOP International 0-group
31/8 - 30/9	Barents Sea 252, 251, 250, 249, 248, 284	Fr, Do	Capelin DNP/NOP International 0-group
3/10 - 2/11	Norwegian Sea Barents Sea 252, 251, 250 284, 285, 286	Fr, Do	Cod, haddock, redfish, blue whiting DNP/NOP
8/11 - 15/12	North Sea 216, 252	Fr, Do, Cm	0-group blue DNP/NOP whiting Envirommental studies Coastal current

R/V "JOHAN HJORT"

Tonnage: 697 BRT

Length of ship: 172 feet

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

CRUISE DATE	CRUISE AREA	PROGRAMME	COMMENTS
5/1 - 27/1	North Sea, Skagerrak 252, 216	Fr, Do	Mackerel, 0-group sprat DNP/NOP
29/1 - 1/3	North Sea, Norwegian Coast 252, 216	Fr, Do Cm	International Young Herring/Fish Survey DNP/NOP
6/3 - 8/4	Norwegian Coast, North Sea 252, 251, 250, 249	Fr, Do Ps	Environmental studies Hydrography (NORSEX) Sprat DNP/NOP
17/4 - 13/5	Norwegian Coast	Fr, Do	Herring larvae Plancton studies Environmental studies Hydrography DNP/NOP
14/5 - 9/6	Annual maintenance		
11/6 - 20/7	North Sea 252, 216	Fr, Ps, Do	Mackerel 0-group Hydrography DNP/NOP
23/7 - 1/8	North Sea 216, 252	Cm, Do	Pollution DNP/NOP
6/8 - 22/8	North Sea 216, 252	Fr, Do	0-group mackerel DNP/NOP
24/8 - 30/9	Barents Sea 252, 251, 250, 249, 284, 285	Fr, Do	Capelin International 0-group survey DNP/NOP
8/10 - 25/10	North Sea 216, 252	Fr, Ps Do	International Herring-larvae survey DNP/NOP
31/10 - 15/12	North Sea, Skagerrak 216, 252, 215	Fr, Do	International 0-group sprat, mackerel, haddock, Norway pout DNP/NOP

New vessel: R/V "MICHAEL SARS"

Tonnage: 492 BRT Length of ship: 150 feet

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

CRUISE DATE	CRUISE AREA	PROGRAMME	COMMENTS	
- 25/3	Barents Sea 252, 251, 286, 285	Fr, Do	Capelin	DNP/NOP
27/3 - 11/4	Norwegian Sea Jan Mayen area 252, 253, 254, 217, 288	Fr	Spawning grounds capelin (FD)	NOP
18/4 - 2/6	Norwegian Sea 252, 217, 218	Fr	Blue whiting Gear experiment	DNP/NOP
4/6 - 30/6	Norwegian Sea 252, 217, 253, 288	Fr	Blue whiting	
1/7 - 24/7	Annual maintenance			
25/7 - 15/8	Norwegian coast 252, 251	Fr, Do	0-group	
17/8 - 3/9	Barents Sea 287, 286, 285, 284	Fr, Do	Capelin (FD)	NOP
7/9 - 15/10	Norwegian Sea Jan Mayen area 287, 288, 253, 217, 252	Fr, Do	Capelin. Shrimps Trawling experiment	DNP/NOP
20/10 - 15/12	North Sea 252, 216	Fr, Do	Mackerel. Sprat.	DNP/NOP

R/V "G.M. DANNEVIG"

Tonnage: 55 BRT

Length of ship: 65 feet

Owner and operating agency: Biological Station, Flødevigen, FHI

CRUISE DATE	CRUISE AREA MS	PROGRAMME	COMMENTS	
Monthly	Skagerrak 216	Do	Hydrography	DNP/NOP
Every other month	Norwegian coast	Ps, Do	Pollution	DNP/NOP
Monthly: in first half	Norwegian coast	Fr, Do	Shrimps	DNP/NOP
17/9 - 5/10	Skagerrak 216	Fr, Do	0-group	DNP/NOP

R/V "Dr. FRIDTJOF NANSEN"

Tonnage: 600 - 700 BRT

Length of ship: 152 feet

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

CRUISE DATE	CRUISE AREA MS	PROGRAMME	COMMENTS
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Schedule for 1979 to be decided later.

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	Do	Hydrography	UIT	NOP
29/1 - 10/2	Hardanger Norw. fjord 216, 252	Fr	Sprat Acoustic	FHI	NOP
19/2 - 25/2	Norw. fjord 250	Fr	SCOR W6-52 Euphausiids	UIT	NOP
1/3 - 8/3	Norw. coast 250, 286	Fr, Do	Herring/capelin Acoustic	FHI	DNP/NOP
10/3 - 23/3	Norw. coast 251, 286	Gg	Dredging	UIT	DNP/NOP
24/4 - 29/4	Norw. coast	Fr	Cod/herring/ capelin	UIT	DNP/NOP
1/5 - 31/5	Lofoten 250	Fr, Do, Cm, Ps	Egg/larvae Hydrography	FHI	DNP/NOP
1/6 - 15/6	Annual maintenance				
18/6 - 13/7	Norw. coast 251, 286, 285	Fr, Do	Juveniles Hydrography	FHI	DNP/NOP
23/7 - 8/8	Norw. sea 286, 287	Ps, Do	Plancton Hydrography	UIT	DNP/NOP
16/8 - 22/8	Norw. sea 251, 287	Ps	Benthos	UIT	DNP/NOP
27/8 - 8/9	Barents Sea 286, 287	Fr		UIT	DNP/NOP
17/9 - 28/9	Norw. coast 251, 287	Fr	Acoustic	FHI	DNP/NOP
15/10 - 26/10	Norw. coast 287, 286	Fr	Capelin	UIT	DNP/NOP
1/11 - 14/12	Norw. coast 216, 252, 251	Fr, Do	0-group sprat, herring	FHI	DNP/NOP

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

M/S "HYDROGRAF"

Tonnage: 302 BRT

Length of ship: 132 feet

Owner: The Hydrographic Office of Norway, Stavanger.

CRUISE DATE	CRUISE AREA	PROGRAMME	COMMENTS
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May/June/July	Northern Norway	Mapping/hydrography	
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"M/S OLJEVERN 02"

Tonnage: 155 BRT

Length of ship: 90 feet

Owner: The Hydrographic Office of Norway, Stavanger.

March/April	North Sea 252	Hydrography (NORSEX)	Responsible agency: UIB
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"H.H. GRAN"

Length of ship: 47 feet

Owner: Norwegian Institute for Water Research.

The vessel is mostly used for the institute's special investigations.

"GUNNAR KNUDSEN"

Length of ship: 42 feet

Owner: Institute of Marine Biology and Limnology, University of Oslo.

The vessel is mostly used for educational purposes, the Oslofjord area being of particular interest.

CHARTERED VESSELS

Several vessels have been chartered by the Institute of Marine Research, FD, Bergen. Approximately 25 cruises are planned for 1979, and will cover the North Sea, Norwegian Sea, Barents Sea as well as the Norwegian coastal area.

The Institute has also observers on board vessels conducting investigations in the Barents Sea, the Jan Mayen area, West- as well as East-Greenland areas.

M/S "POLARSIRKEL"

Tonnage: 495 BRT Length of ship: 148 feet

Responsible agency for the following cruise:

Norwegian Polar Institute/University of Bergen

CRUISE DATE	CRUISE AREA	PROGRAMME	COMMENTS	
20/1 - 1/3	Antarctic	Cm, Do	Norwegian Antarctic Expedition 1979	DNP

R/V "H.U. SVERDRUP"

Tonnage: 295 BRT

Length of ship: 128 feet

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

CRUISE DATE	CRUISE AREA MS	PROGRAMME	COMMENTS	RESPONSIBLE AGENCY	
10/3 - 8/4	West coast of Norway 216, 252	Do	Hydrography	UIB	DNP/NOP
14/5 - 14/7	Norwegian Sea, 287, 288, 252			FFIU	NOP
16/7 - 12/8	Vacation				
13/8 - 30/9	Skagerrak 216	Studies - instruments		Simrad, Norway	NOP

R/V "HARRY BORTHEN"

Tonnage: 48 BRT

Length of ship: 64 feet

Owner: Trondheim Biological Station.

CRUISE DATE	CRUISE AREA MS	PROGRAMME	COMMENTS	RESPONSIBLE AGENCY	
Various cruises,	Norw. fjords 251, 252	Fr,Do,Ps		TBSt.	
Total estimated:	120 days at sea				DNP/NOP

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
M - "Mike" 66°00'N, 2°00'E

M/V "POLARFRONT"

Tonnage: 935 BRT

Length of ship: 180 feet

CRUISE DATE	CRUISE AREA	PROGRAMME	COMMENTS	
Alternating monthly with Dutch vessel "Cumulus"	<u>M</u>	Do	Data at UIB	DNP
		Ps, Ab	Data at FHI	
		Mt	Data at Meteorological Institute, Oslo	

M/V "AMI"

Tonnage: 300

Length of ship: 140 feet

Operating agency: Oljedirektoratet, Stavanger.

Am	Do	Data at FHI	DNP
	Cm	Data at VHL	
	SI		
	Mt	Data at MI	

Publications from NOD

- 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.
- Nr. 19 "OCEANOGRAPHIC CRUISE PROGRAMMES (planned), Norway 1978"
publisert januar 1978.
- Nr. 20 "NORSK OSEANOGRAFI. Miljøforskning og samarbeid."
Katalog over forskningsaktiviteter,
publisert oktober 1978.