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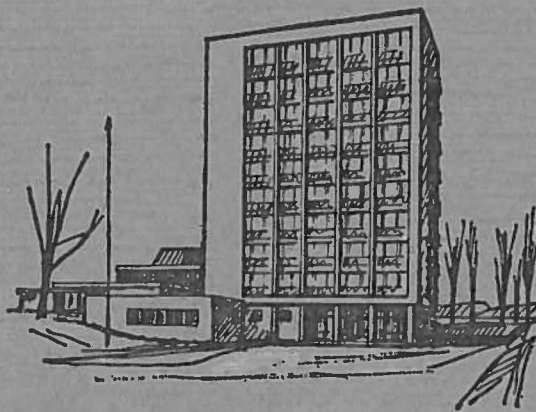
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Oceanographic Cruise Programmes
(Planned)

NORWAY
1977

Nr. 17

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FISKERIDIREKTORATETS HAVFORSKNINGSINSTITUTT
BERGEN

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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.).
- 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 Defence Research Establishment,
 Division for Underwater Warfare, Horten.

UIB University of Bergen.

UIT University of Tromsø.

R/V "G.O. SARS"

Tonnage: 1445 BRT

Length of ship: 230 feet

Owner and operating agency: Institute of Marine Research, F.D.

CRUISE DATE:	CRUISE AREA:	PROGRAMME:	COMMENTS:
6/1 - 4/2	Barents Sea 252, 251, 250, 286, 285	Fr, Do	Cod and Haddock DNP
6/2 - 12/3	Barents Sea 252, 251, 250, 286, 285	Fr, Do	Capelin DNP
14/3 - 1/4	Norwegian Sea 252, 253, 217	Fr, Do	Blue whiting DNP
1/4 - 9/5	Annual maintenance		
9/5 - 27/5	Norwegian Coast W. Barents Sea 250, 287	Fr, Do	Demersal fish (redfish) DNP
30/5 - 1/7	Barents Sea 252, 251, 250, 286, 285	Fr, Do, Ps	Capelin DNP
10/7 - 30/7	North Sea 252, 216	Fr, Do	Various species DNP
7/8 - 14/8	Norwegian Coast 252, 251, 250	Cm, Do	Coastal current DNP
17/8 - 14/9	Barents Sea 252, 251, 250, 249, 248, 284	Fr, Do	0-group, cod DNP
16/9 - 7/10	Barents Sea 252, 251, 250, 284, 285, 286	Fr, Do	Capelin DNP
10/10 - 7/11	Norwegian Sea 287	Fr, Do	Cod, redfish DNP
14/11 - 12/11	Skagerrak, North 216 Sea	Fr, Do, Cm	Blue whiting, Coastal current DNP

R/V "JOHAN HJORT"

Tonnage: 697 BRT Length of ship: 172 feet

Owner and operating agency: Institute of Marine Research, F.D.

CRUISE DATE:	CRUISE AREA:	PROGRAMME:	COMMENTS:
6/1 - 4/2	Barents Sea 252, 251, 250, 286, 285	Fr, do	Cod DNP
9/2 - 5/3	North Sea 252, 216, 181	Fr, Do	Herring, Cod DNP
8/3 - 2/4	North Sea, Norwegian Coast 252, 216	Fr, Do Cm	Spawning grounds, Coastal current DNP
12/4 - 6/5	Norwegian coast 252, 251, 250, 249	Fr, Do Ps	Herring larvae DNP
7/5 - 30/5	Annual maintenance		
31/5 - 5/7	North Sea 252, 216	Fr, Ps, Do	Mackerel, Hydro- graphy 0-group: Cod, Norway pout, Sandeel DNP
10/7 - 30/7	North Sea 216, 252	Fr, Do	Various species DNP
7/8 - 14/8	Norwegian coast 252, 251, 250, 249	Sm, Do	Coastal current DNP
17/8 - 14/9	Barents Sea 252, 251, 250, 249, 284, 285	Fr, Do	0-group, capelin DNP
16/9 - 7/10	Barents Sea 252, 251, 250, 286, 285	Fr, Do	Capelin DNP
12/10 - 26/10	North Sea 216, 252	Fr, Ps Do	Herring larvae DNP
1/11 - 13/12	North Sea 216, 252	Fr, Do	Acoustic survey DNP

R/V "PEDER RØNNESTAD"

Tonnage: 126 BRT Length of ship: 86 feet

Owner and operating agency: Institute of Marine Research, F.D.

CRUISE DATE:	CRUISE AREA: MS	PROGRAMME:	COMMENTS:
10/1 - 15/1	Norwegian coast 216, 252	Fr, Do	Seithe DNP
17/1 - 21/1	Norw. fjords 252,	Fr, Ps, Do	Hydrography, Plankton DNP
27/1 - 24/2	Norwegian coast 252, 251, 250	Fr, Do	Arctic Cod DNP
28/2 - 4/3	Norw. fjords 252	Fr, Ps, Do	Hydrography, Plankton DNP
9/3 - 13/3	Norw. fjords	Fr, Ps, Do	Euphausiids DNP
17/3 - 25/3	Norw. fjords 252	Fr, Ps, Do	Hydrography, Plankton DNP
28/3 - 22/4	Norwegian coast 252, 251, 250	Fr, Ps, Do, Cm	Egg-parr, Current, Hydro- graphy DNP
25/4 - 29/4	Norw. fjords 252	Fr, Ps, Do	Hydrography Plankton DNP
2/5 - 16/5	West Norw. coast 252, 251	Ps, Do	Calanus finmarchicus DNP
18/5 - 25/5	Norw. fjords 252	Fr, Ps, Do	Hydrography Plankton DNP
31/5 - 18/6	Norwegian coast	Fr,	Seithe (tagging)

R/V "PEDER RØNNESTAD" continued

CRUISE DATE:	CRUISE AREA:	PROGRAMME:	COMMENTS:	
	MS			
27/6 - 1/7	Norw. fjords 252	Fr, Ps, Do	Hydrography, Plankton	DNP
2/7 - 25/7	Annual maintenance			
25/7 - 9/9	Skagerrak, North 216 Sea	Fr, Do	Mackerel (tagging)	DNP
12/9 - 10/10	Norwegian coast 252, 251, 250, 249	Fr, Ps, Do	0-group seithe	DNP

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:	PROGRAMME:	COMMENTS:	
	MS			
Monthly	Skagerrak 216	Do	Hydrography	DNP
Monthly	Oslofjord 216	Ps, Do	Base-line studies	DNP
Monthly	Norwegian coast 216	Ps, Do	Pollution	DNP
Monthly: in 1. quarter	Norwegian coast 216	Fr, Do	Shrimps	DNP
20/6 - 24/6	Norwegian coast 216	Ps, Do	Larvae - parr	DNP
10/9 - 29/9	Skagerrak 216	Fr, Do	0-group	DNP
17/10 - 28/10	Skagerrak 216	Fr, Do	Fishery research	DNP
28/11 - 30/11 and 15/12 - 16/12	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
18/1 - 20/1	Norw. fjord Skjomen - 250	Do	Hydrography	UIT DNP
18/2 - 20/2	Norw. fjord Skjomen - 250	Do	Hydrography	UIT DNP
21/2 - 6/3	Lofoten 250	Fr, Do	Arctic cod, Hydrography	FHI DNP
7/3 - 3/4	Lofoten 250	Fr, Do	Spawning area	FHI DNP
11/4 - 12/4	Norw. fjord Skjomen - 250	Do	Hydrography	UIT DNP
24/4 - 25/5	Lofoten 250	Fr, Ps	Larvae	FHI DNP
13/6 - 17/6	Norw. fjord Skjomen - 250	Ps, Do	Hydrography, Biology	UIT DNP
16/7 - 20/8	Norwegian coast 250	Ps, Do	Larvae	FHI DNP
1/11 - 15/11	Norwegian coast 252, 251, 250	Fr, Do	Herring, Sprat	FHI DNP

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	
16/1 - 28/1	Arabian Sea 102, 101, 66, 67, 31, 32	Fr, Do	Fish resources	DNP
30/1 - 11/2	Arabian Sea 102, 101, 66, 67, 31, 32	Fr, Do	" "	DNP
13/2 - 25/2	Arabian Sea 102, 101, 66, 67, 31, 32	Fr, Do	" "	DNP
27/2 - 11/3	Arabian Sea 102, 101, 66, 67, 31, 32	Fr, Do	" "	DNP
13/3 - 25/3	Arabian Sea 102, 101, 66, 67, 31, 32	Fr, Do	" "	DNP
27/3 - 8/4	Arabian Sea 102, 101, 66, 67, 31, 32	Fr, Do	" "	DNP
13/4 - 29/4	Arabian Sea 102, 101, 66, 67, 31, 32	Fr, Do	" "	DNP
1/5 - 16/5	Arabian Sea 102, 101, 66, 67, 31, 32	Fr, Do	" "	DNP
18/5 - 27/5	Arabian Sea, 102, 101, 66, 67, 31, 32	Fr, Do	" "	DNP
29/5 - 10/6	Arabian Sea 67, 31, 32	Fr, Do	" "	DNP
12/6 - 24/6	Arabian Sea 102, 101, 66, 67, 31, 32	Fr, Do	" "	DNP

Second half of 1977 to be decided later, port of call: Karachi.

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

R/V "HAVDRØN"

CRUISE DATE	CRUISE AREA	PROGRAMME	COMMENTS
	MS		
20/2 - 14/3	Norwegian coast 252, 251, 250	Fr, Do	Herring DNP
1/5 - 30/5	Atlantic 182	Fr, Do	Mackerel (tagging) DNP
1/9 - 21/9	North Sea 216, 281	Fr, Do	Sprat

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
5/3 - 15/3	Norwegian coast 252			FFIU
21/3 - 26/3	Maintenance			
12/4 - 30/4	Norwegian coast 250	Ps, Fr, Do	Larvae Hydrography	UIB DNP FHI
1/5 - 20/5	Norwegian coast 250	Gg	Marine geology	UIB DNP
6/6 - 26/6	Skagerrak 216			FFIU
4/7 - 24/7	Vaccation			
25/7 - 21/8	Norwegian coast 250			FFIU
22/8 - 30/9	Norwegian Sea 287	Gg	Seismic studies	UIB DNP
3/10 - 31/10	Norwegian coast 252			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

CRUISE DATE CRUISE AREA PROGRAMME COMMENTS

M/V "POLARFRONT"

Tonnage: 935 BRT

Length of ship: 180 feet

3/1 - 4/2	M	Do	Data at UIB	DNP
22/2 - 24/3	"	Ps, Ab	Data at FHI	
13/4 - 15/5	"	Mt	Data at Meteorological Institute	
4/6 - 6/7	"			
24/7 - 23/8	"			
10/9 - 10/10	"			
28/10 - 27/11	"			
16/12 - 16/1(1978)	"			

M/V "FAMITA"

September/December	Fa	Do	Data at FHI	DNP
January/April			Also meteorological observations.	

M/V "AMI"

Preliminary until October 1977 (continously)	Am	Do	Data at FHI	DNP
		Cm	Data at River and Harbour Laboratory	
		SI		
		Mt	Data at Meteorological Institute	

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 FORSKNINGS-
AKTIVITETER 1976.
publisert desember 1976