

STANDARD FORM A1
Notification for Consent to Conduct Marine Scientific Research

Separate copy for each coastal state

in Areas Under National Jurisdiction of

Name of coastal state NORWAY
Date: January 15 th – February 1 st 2018

Part A: GENERAL

<p>1.1 Cruise name and/or number: IBTS q1 2018 No 1</p>
<p>1.2 Sponsoring institution:</p> <p>Name: Swedish University of Agricultural Sciences (SLU), Department of Aquatic Resources</p> <p>Address: P.O. Box 7070, SE-750 07 Uppsala, SWEDEN</p> <p>Name of Director: Noël Holmgren (Head of Department) Email: noel.holmgren@slu.se</p>
<p>1.3 Scientist in charge of the project (CV recommended to be included):</p> <p>Name: Joakim Hjelm Address: Swedish University of Agricultural Resources, Institute of Marine Research, Turistgatan 5, SE-453 30 Lysekil, Sweden Telephone: +46 10 478 4064 Fax: Email: joakim.hjelm@slu.se</p>
<p>1.4 Scientist(s) from coastal state involved in the planning of the project:</p> <p>Name(s): Barbara Bland Address: Swedish University of Agricultural Sciences, Department of Aquatic Resources, Institute of Marine Research, Turistgatan 5, SE-453 30 Lysekil Telephone: +46 10 478 4013 Fax: Email: barbara.bland@slu.se</p>
<p>1.5 Submitting officer:</p> <p>Name and address: Claus Persson Nationality: Danish Telephone: +45 20 121 394 Dana's telephone: +45 51 32 7533 Email: kaptajn.dana@aquadtu.dk; cper@aquadtu.dk</p>

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Part B: DETAILS

1.	Name of research ship Dana			
2.	Dates of sailing		From: 20180115	To: 20180201
3.	<p>Purpose of research and general operational methods: The IBTS (International Bottom Trawl Survey) is a fish survey providing data for stock assessment for commercial fish species and environmental monitoring in the EU. The assessment and surveys are coordinated by the International Council for the Exploration of the Sea (ICES). The methods for the data collection are standardized bottom trawling, pelagic larvae trawling and hydrographic sampling. The Swedish Meteorological and Hydrological Institute carries out the hydrographical sampling on board.</p>			
4.	<p>Attach chart showing (on an appropriate scale) the geographical area of intended work, positions of intended stations, tracks of survey lines, positions of moored/seabed equipment: Figure 1 Map with planned bottom trawl stations Table 1 List with planned bottom trawl stations Figure 2. Map of cruise area during SWE IBTS quarter 1 2018.</p> <p>Pelagic larvae trawling stations are not fixed beforehand but planned and executed within the cruise area presented in Figure 2 as we go along.</p>			
	<p>Types of samples required, e.g. Geological/Water/Plankton/Fish/Radioactivity/Isotope: Fish Fish larvae Plankton Water</p>			
	<p>and methods by which samples will be obtained (including dredging/coring/drilling): Trawls Pelagic larvae trawl Zoo plankton net Water bottles Scientific fish echo sounder CTD-sonde</p>			
	<p>Details of moored equipment: Not applicable</p>			
	<p>Dates:</p>			
	Laying	Recovery	Description	Latitude
		a)	Type and trade name	
		b)	Chemical content	
		c)	Depth of Trade class and stowage	
		d)	Size	
		e)	Depth of detonation	
		f)	Frequency of detonation	
		g)	Position in latitude and longitude	
		h)	Dates of detonation	
	<p>Detail and reference of:</p>			
	<p>a) Any relevant previous/future cruises Regular internationally coordinated survey in the area within the framework of ICES</p>			
	<p>b) Any previously published research data relating to the proposed cruise. (Attach separate sheet if necessary).</p>			

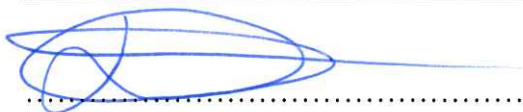
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	<p>Working Group reports published by the ICES http://www.ices.dk/community/groups/Pages/IBTSWG.aspx Cruise reports: http://www.slu.se/sv/institutioner/akvatiska-resurser/sok-publikation/aqua_reports</p>
9.	<p>Names and addresses of scientists of the coastal state in whose waters the proposed cruise takes place and with whom previous contact has been made. Dr. Henning Wehde, Havforskningsinstituttet, P O Box 1870, Nordnes, 5817 Bergen, Norge Email henning.wehde@imr.no</p>
	<p>State:</p>
	<p>a) Port Calls None</p>
	<p>b) Whether visits to the ship in port by scientists of the coastal state concerned will be acceptable. Yes</p>
	<p>c) Whether it will be acceptable to carry on board an observer from the coastal state for any part of the cruise and dates and ports of embarkation/diseembarkation. Yes</p>
	<p>d) When research data from intended cruise is likely to be made to the coastal state and if so by what means: Report is published within approx 2 months at http://www.slu.se/sv/institutioner/akvatiska-resurser/sok-publikation/aqua_reports/ Data are also available from ICES data centre. https://datras.ices.dk/Data_products/Download/Download_Data_public.aspx</p>

Part C: SCIENTIFIC EQUIPMENT

11. Complete the following table –
 (Indicate "Yes" or "No")

List of all major marine scientific equipment it is proposed to use and indicate waters in which it will be deployed.	Fisheries research within fishing limits	Research concerning continental shelf out to coastal state's margin	DISTANCE FROM COAST		
			Within 4 NM	Between 4-12 NM	Between 12-200 NM
Scientific echo sounder	Yes	No	No	Yes	Yes
Trawl	Yes	No	No	Yes	Yes
Water sampling equipment	Yes	No	No	Yes	Yes
CTD sonde	Yes	No	No	Yes	Yes
MIK (Fish larvae trawl)	Yes	No	No	Yes	Yes
Bongo (Egg larvae net)	Yes	No	No	Yes	Yes



25/9.17

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(On behalf of the Principal Scientist)

Dated

N.B. IF ANY DETAILS ARE MATERIALLY CHANGED REGARDING DATES/AREA OF OPERATION
AFTER THIS FORM HAS BEEN SUBMITTED THE COSTAL STATE AUTHORITIES MUST BE
NOTIFIED IMMEDIATELY

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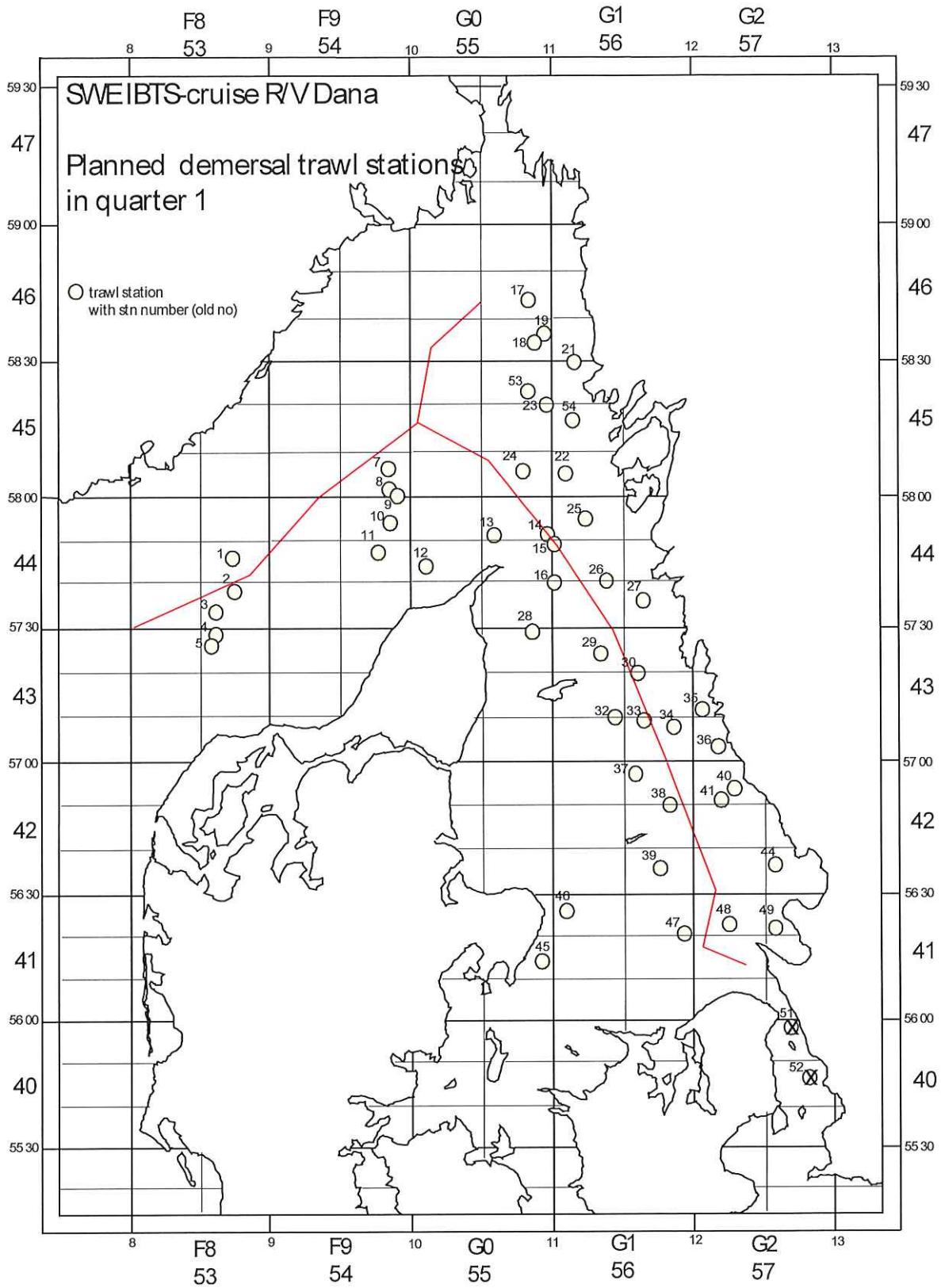


Figure 1. Map with planned bottom trawl stations Swedish IBTS Survey in the Skagerrak/Kattegat 2018 1st quarter.

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Table 1. Positions of planned bottom trawl stations Swedish IBTS Survey in the Skagerrak/Kattegat 2018 1st quarter.

Planerade stationer SWE IBTS-SURVEY Q1									
Stnskod	Old no	Stationsnamn	Bottendjup	Lat. 1	Lon. 1	Lat. 2	Lon. 2	Stat.rekt	SD
46G007	17	PERSGRUND	92-82-80	5840.10	1049.50	5837.10	1050.80	46G0	20
46G006	19	KILEBOJEN	70-76-80	5835.70	1054.40	5833.10	1053.10	46G0	20
46G008	18	5 W VÄDERÖARNA	86-96-99	5832.60	1050.90	5830.05	1050.52	46G0	20
45G103	21	NW SKÄGGA	56	5829.90	1107.30	5827.83	1108.11	45G1	20
45G002	53	12 W HÄLLÖ	131	5821.33	1050.77	5819.48	1050.77	45G0	20
45G001	23	7 W HÄLLÖ	106	5819.17	1059.70	5817.44	1058.11	45G0	20
45G105	54	SÖRGRUND	61	5815.60	1109.91	5812.80	1112.10	45G1	20
45G110	22	9 W MÅSESKÄR	129	5806.05	1103.20	5803.10	1104.90	45G1	20
45G005	24	19 W MÅSESKÄR	223	5805.51	1043.89	5803.72	1044.69	45G0	20
44G106	25	13 W MARSTRAND	62-64	5751.80	1112.81	5753.80	1110.00	44G1	20
44G108	26	7 W VINGA	64-69	5740.00	1122.00	5742.25	1120.70	44G1	20
44G105	27	SW VINGA	41-51	5733.35	1136.77	5732.11	1134.17	44G1	20
44G001	16	HERTAS FLAK	32	5740.31	1057.71	5738.88	1059.91	44G0	20
44G002	14	7,5 NE SKAGENS REV	73	5752.70	1059.99	5750.90	1056.20	44G1	20
44G104	15	6,5 ENE SKAGENS REV	49-50	5749.19	1102.33	5748.49	1059.11	44G1	20
44G009	13	4,5 N SKAGEN	105	5750.04	1033.30	5749.99	1039.00	44G0	20
44G008	12	7,5 N HIRTSHALS	83	5744.65	1008.94	5745.25	1012.21	44G0	20
44F902	11	11 N HIRTSHALS	37	5745.39	947.11	5744.36	944.27	44F9	20
44F906	10	17 N HIRTSHALS	61	5753.80	953.55	5753.01	950.44	44F9	20
44F910	9	24 N HIRTSHALS	104	5758.86	952.66	5757.94	949.68	44F9	20
45F905	8	27 N HIRTSHALS	157	5801.37	951.24	5800.17	948.63	45F9	20
45F907	7	30 N HIRTSHALS	258	5803.97	947.54	5802.99	944.58	45F9	20
43F802	5	16 N HANSTHOLM	38	5725.80	836.10	5724.60	831.60	43F8	20
43F803	4	20 N HANSTHOLM	50-55-58	5727.30	835.50	5727.20	830.70	43F8	20
44F806	3	24 N HANSTHOLM	69-66	5731.61	835.80	5731.59	840.15	44F8	20
44F807	2	31 N HANSTHOLM	88-93-97	5737.10	847.08	5738.36	849.65	44F8	20
44F801	1	36 N HANSTHOLM	216-224	5745.84	844.59	5747.05	847.20	44F8	20
43G001	28	LÄSÖ RÄNNA	40-43	5728.00	1052.50	5726.35	1049.50	43G0	21
43G101	29	4 N BÖCHERS BANK	39	5722.35	1118.95	5724.19	1119.43	43G1	21
43G105	30	10 WNW NIDINGEN	61-68	5720.96	1135.47	5719.23	1134.73	43G1	21
43G104	32	W GROVES FLAK	80-67-74	5710.93	1126.86	5709.15	1127.41	43G1	21
43G106	33	W FLADEN	72-77	5712.60	1139.53	5710.80	1139.51	43G1	21
43G103	34	E FLADEN	52-63	5707.96	1150.95	5706.25	1149.94	43G1	21
43G201	35	INRE VÄRÖTUBEN	28-34-29	5711.41	1203.53	5713.15	1203.03	43G2	21
43G202	36	GALTABÄCK	29-33-35	5702.80	1211.67	5701.03	1212.45	43G2	21
42G201	40	MORUPS BANK	28-28	5652.41	1217.46	5654.00	1215.91	42G2	21
42G202	41	SW MORUPS BANK	38-40-35	5649.08	1212.97	5650.63	1214.79	42G2	21
42G101	39	7 S ANHOLT KNOB	33-35	5635.43	1149.20	5637.25	1149.72	42G1	21
42G102	38	FYRBANKEN	50-40	5647.22	1152.89	5648.03	1149.88	42G1	21
42G103	37	SANDEN	56-72	5656.99	1139.90	5655.49	1141.66	42G1	21
41G001	45	7 N HJELM	21-21	5612.89	1057.78	5615.20	1058.30	41G0	21
41G101	46	6 E GRENÄ	19-18	5626.60	1105.40	5628.95	1105.80	41G1	21
41G102	47	6 NE LYSEGRUND	31-31	5621.05	1154.20	5620.73	1158.50	41G1	21
41G201	48	7 NW KULLEN	32-33	5621.80	1215.95	5624.10	1215.57	41G2	21
41G202	49	SKÄLDERVIKEN	22-24	5620.10	1237.00	5621.60	1233.30	41G2	21
42G203	44	YTTRE LAHOLMSBUKTEN	23	5633.70	1236.46	5633.18	1234.99	42G2	21

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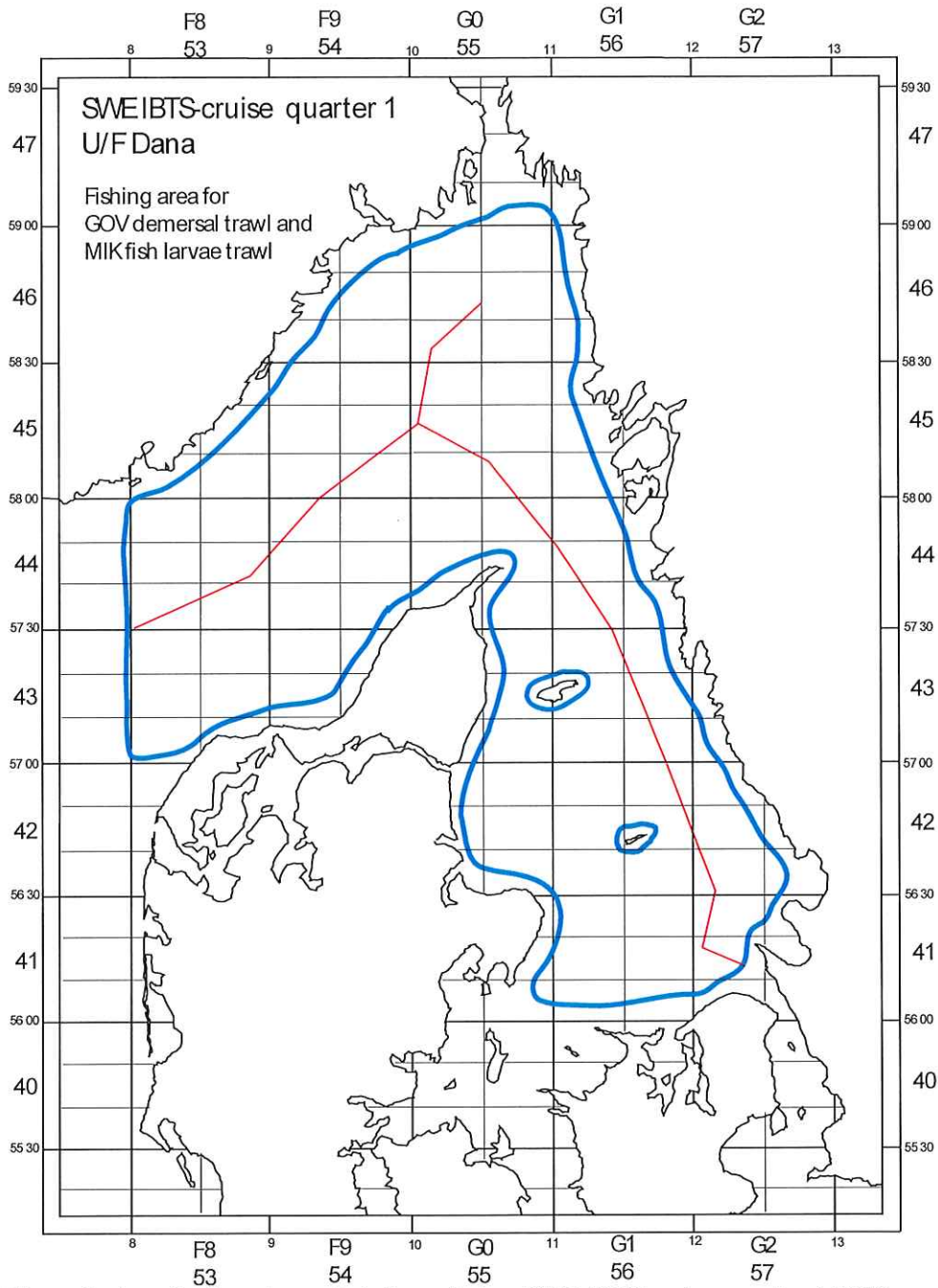


Figure 2. Area for the planned stations during SWE IBTS cruise quarter 1 2018.