CRUISE SUMMARY REPORT

FOR COLLATING CENTRE USE

Centre: Ref. no:

Is data exchange restricted? ☐ Yes ■ In part ☐ No

SHIP

Name: TRIDENS 2 Call Sign: PBVO

Type of ship: FISHERIES RESEARCH VESSEL

CRUISE NO./NAME: IBTS 2008-Q1 (INTERNATIONAL BOTTOM TRAWL SURVEY)

CRUISE PERIOD start 28 Jan 2008 to 29 Feb 2008

PORT OF DEPARTURE: SCHEVENINGEN, THE NETHERLANDS

PORT OF RETURN: SCHEVENINGEN, THE NETHERLANDS

RESPONSIBLE LABORATORY:

Name: INSTITUTE FOR MARINE RESOURCES AND ECOSYSTEM STUDIES (IMARES)

Address: P.O. BOX 68
1970 AB IJMUIDEN
HARINGKADE 1

Country: THE NETHERLANDS

CHIEF SCIENTIST(S)

Remment ter Hofstede

OBJECTIVES AND BRIEF NARRATIVE OF CRUISE

The IBTS is designed to acquire recruitment indices and tuning data for several finfish species. The recruitmen indices are used in ICES assessment working groups (herring, North Sea demersal fish, mackerel) and ACFM. Data on spatial and temporal distribution of fish species are used for ecosystem studies.

PROJECT:

Project name: ICES IBTS Working Group

Coordinating body: ICES International Council for Exploration of the Sea

PRINCIPAL INVESTIGATORS:

A. Remment ter Hofstede
B.
C.
D.
E.
F.

MOORINGS, BOTTOM MOUNTED GEAR AND DRIFTING SYSTEMS					
PI	APPROXIMATE POSITION				DESCRIPTION
	haulno	ICES-rectangl	latitude	longitude	their depths, whether deployed and/or recovered, dates of deployment and/or recovery, and any identifiers given to the site.
A	1	'33F4	52.327	4.170	GOV-haul + CTD-station
A	2	'34F4	52.680	4.042	GOV-haul + CTD-station
A	3	'37F6	54.234	6.474	GOV-haul + CTD-station
A	4	'37F7	54.273	7.220	GOV-haul + CTD-station
A	5	'37F8	54.283	8.033	GOV-haul + CTD-station
A	6	'36F7	53.954	7.446	GOV-haul + CTD-station
A	7	'36F3	53.893	6.072	GOV-haul + CTD-station
A	8	'36F5	53.964	5.563	GOV-haul + CTD-station
A	9	'37F5	54.139	5.232	GOV-haul + CTD-station
A	10	'37F4	54.120	4.909	GOV-haul + CTD-station
A	11	'35F4	53.138	4.134	GOV-haul + CTD-station
A	12	'39F2	55.434	2.656	GOV-haul + CTD-station
A	13	'40F2	55.667	2.800	GOV-haul + CTD-station
A	14	'40F3	55.834	3.351	GOV-haul + CTD-station
A	15	'40F4	55.950	4.101	GOV-haul + CTD-station
A	16	'41F4	56.275	4.459	GOV-haul + CTD-station
A	17	'41F3	56.252	3.680	GOV-haul + CTD-station
A	18	'41F2	56.310	2.973	GOV-haul + CTD-station
A	19	'41F2	56.235	2.451	GOV-haul + CTD-station
A	20	'41E9	56.451	-0.295	GOV-haul + CTD-station
A	21	'42E9	56.761	-0.496	GOV-haul + CTD-station
A	22	'43E9	57.133	-0.540	GOV-haul + CTD-station
A	23	'43E8	57.304	-1.274	GOV-haul + CTD-station
A	24	'42E8	56.667	-1.612	GOV-haul + CTD-station
A	25	'41E8	56.397	-1.440	GOV-haul + CTD-station
A	26	'41E7	56.368	-2.084	GOV-haul + CTD-station
A	27	'42E7	56.706	-2.250	GOV-haul + CTD-station
A	28	'41F0	56.162	0.808	GOV-haul + CTD-station
A	29	'41F1	56.093	1.200	GOV-haul + CTD-station
A	30	'40F1	55.736	1.450	GOV-haul + CTD-station
A	31	'39F1	55.476	1.214	GOV-haul + CTD-station
A	32	'40F0	55.555	0.930	GOV-haul + CTD-station
A	33	'36F2	53.926	2.376	GOV-haul + CTD-station
A	34	'36F1	53.652	1.541	GOV-haul + CTD-station
A	35	'35F1	53.445	1.575	GOV-haul + CTD-station
A	36	'35F0	53.449	0.667	GOV-haul + CTD-station
A	37	'36F4	53.828	4.215	GOV-haul + CTD-station
A	38	'36F3	53.654	3.724	GOV-haul + CTD-station
A	39	'35F3	53.246	3.740	GOV-haul + CTD-station
A	40	'34F3	52.982	3.800	GOV-haul + CTD-station
A	41	'34F3	52.585	3.983	GOV-haul + CTD-station
A	42	'35F3	53.059	3.343	GOV-haul + CTD-station
A	43	'33F1	52.263	1.892	GOV-haul + CTD-station
A	44	'32F1	51.934	1.817	GOV-haul + CTD-station
A	45	'31F1	51.488	1.783	GOV-haul + CTD-station
A	46	'30F1	50.977	1.182	GOV-haul + CTD-station
A	47	'28F0	49.875	0.415	GOV-haul + CTD-station
A	48	'29F0	50.161	0.986	GOV-haul + CTD-station
A	49	'29F0	50.230	1.205	GOV-haul + CTD-station

A	50	'30F0	50.516	0.593	GOV-haul + CTD-station
A	51	'31F2	51.465	2.330	GOV-haul + CTD-station
A	52	'32F0	51.580	2.780	GOV-haul + CTD-station
A	53	'32F3	51.832	3.432	GOV-haul + CTD-station
A	54	'33F5	52.206	3.722	GOV-haul + CTD-station
A	55	'33F2	52.338	2.731	GOV-haul + CTD-station
A	56	'34F2	52.605	2.476	GOV-haul + CTD-station
A	57	'33F4	52.323	4.409	GOV-haul + CTD-station
A	58	'34F4	52.752	4.303	GOV-haul + CTD-station
A	59	'35F4	53.007	4.230	GOV-haul + CTD-station
A	60	'35F2	53.090	2.726	GOV-haul + CTD-station
A	61	'35F3	53.288	3.445	GOV-haul + CTD-station
A	62	'36F4	53.906	4.280	GOV-haul + CTD-station
A	63	'36F5	53.750	5.224	GOV-haul + CTD-station
A	64	'36F6	53.872	6.095	GOV-haul + CTD-station
A	65	'37F6	54.256	6.360	GOV-haul + CTD-station
A	66	'37F5	54.133	5.237	GOV-haul + CTD-station
A	67	'37F4	54.141	4.736	GOV-haul + CTD-station
A	1	'35F4	53.139	-4.450	MIK-haul
A	2	'35F4	53.285	4.289	MIK-haul
A	3	'35F3	53.444	3.981	MIK-haul
A	4	'36F4	53.637	4.207	MIK-haul
A	5	'36F4	53.788	4.487	MIK-haul
A	6	'37F4	54.068	4.402	MIK-haul
A	7	'37F4	54.189	4.544	MIK-haul
A	8	'36F7	53.901	7.235	MIK-haul
A	9	'37F7	53.950	7.524	MIK-haul
A	10	'37F8	54.067	8.041	MIK-haul
A	11	'37F7	54.206	7.647	MIK-haul
A	12	'37F7	54.230	7.223	MIK-haul
A	13	'37F6	54.230	6.782	MIK-haul
A	14	'36F5	53.693	5.073	MIK-haul
A	15	'36F5	53.897	5.108	MIK-haul
A	16	'37F5	54.131	5.155	MIK-haul
A	17	'37F5	54.342	5.057	MIK-haul
A	18	'40F4	55.925	4.155	MIK-haul
A	19	'40F4	55.890	3.763	MIK-haul
A	20	'40F3	55.892	3.447	MIK-haul
A	21	'41F3	56.082	3.530	MIK-haul
A	22	'41F3	56.180	3.818	MIK-haul
A	23	'41f4	56.220	4.114	MIK-haul
A	24	'41F2	56.254	2.365	MIK-haul
A	25	'41F2	56.064	2.314	MIK-haul
A	26	'40F2	55.900	2.217	MIK-haul
A	27	'40F1	55.917	1.983	MIK-haul
A	28	'41F1	56.083	1.867	MIK-haul
A	29	'43E8	57.234	-1.351	MIK-haul
A	30	'43E8	57.118	-1.161	MIK-haul
A	31	'43E9	57.111	-0.827	MIK-haul
A	32	'43E9	57.019	-0.573	MIK-haul
A	33	'42E9	56.863	-0.698	MIK-haul
A	34	'42E9	56.751	-0.918	MIK-haul
A	35	'42E8	56.728	1.236	MIK-haul
A	36	'40F0	55.567	0.633	MIK-haul
A	37	'40F0	55.500	0.933	MIK-haul
A	38	'39F1	55.400	1.200	MIK-haul

A	39	'39F1	55.300	1.600	MIK-haul
A	40	'39F2	55.217	2.017	MIK-haul
A	41	'39F2	55.050	2.200	MIK-haul
A	42	'35F0	53.448	0.948	MIK-haul
A	43	'35F1	53.485	1.202	MIK-haul
A	44	'36F1	53.626	1.360	MIK-haul
A	45	'36F1	53.684	1.754	MIK-haul
A	46	'36F2	53.732	2.089	MIK-haul
A	47	'36F2	53.650	2.367	MIK-haul
A	48	'35F2	53.468	2.384	MIK-haul
A	49	'34F3	52.751	3.634	MIK-haul
A	50	'34F3	52.734	3.966	MIK-haul
A	51	'34F4	52.702	4.250	MIK-haul
A	52	'34F4	52.565	4.087	MIK-haul
A	53	'33F4	52.420	4.272	MIK-haul
A	54	'33F4	52.318	4.061	MIK-haul
A	55	'33F3	52.321	3.773	MIK-haul
A	56	'33F3	52.152	3.818	MIK-haul
A	57	'35F3	53.093	3.141	MIK-haul
A	58	'35F2	53.057	2.856	MIK-haul
A	59	'34F2	52.929	2.649	MIK-haul
A	60	'34F2	52.774	2.477	MIK-haul
A	61	'34F2	52.717	2.487	MIK-haul
A	62	'30F1	50.966	1.199	MIK-haul
A	63	'30F1	50.799	1.165	MIK-haul
A	64	'30F0	50.674	0.907	MIK-haul
A	65	'30F0	50.555	0.614	MIK-haul
A	66	'29F0	50.461	0.321	MIK-haul
A	67	'29F0	50.152	0.613	MIK-haul
A	68	'28F0	49.976	0.656	MIK-haul
A	69	'28F0	49.986	0.954	MIK-haul
A	70	'29F1	50.104	1.169	MIK-haul
A	71	'29F1	50.298	1.252	MIK-haul
A	72	'33F3	52.122	3.658	MIK-haul
A	73	'32F3	51.870	3.500	MIK-haul
A	74	'32F3	51.838	3.211	MIK-haul
A	75	'32F2	51.783	2.953	MIK-haul
A	76	'34F1	52.553	1.955	MIK-haul
A	77	'33F1	52.386	1.929	MIK-haul
A	78	'33F1	52.194	1.950	MIK-haul
A	79	'33F2	52.206	2.172	MIK-haul
A	80	'33F4	52.439	4.310	MIK-haul
A	81	'33F4	52.429	4.062	MIK-haul
A	82	'33F3	52.418	3.802	MIK-haul
A	83	'33F3	52.436	3.502	MIK-haul
A	84	'37F5	54.022	5.430	MIK-haul
A	85	'37F5	54.024	5.748	MIK-haul
A	86	'37F6	54.030	6.107	MIK-haul
A	87	'36F6	53.969	6.375	MIK-haul
A	88	'37F3	54.095	3.922	MIK-haul
A	89	'35F3	53.964	3.697	MIK-haul
A	90	'36F3	53.779	3.690	MIK-haul
A	91	'35F3	53.468	3.644	MIK-haul

SUMMARY OF MEASURED AND SAMPLES TAKEN				
PI	NO	UNITS	DATA TYPE	DESCRIPTION

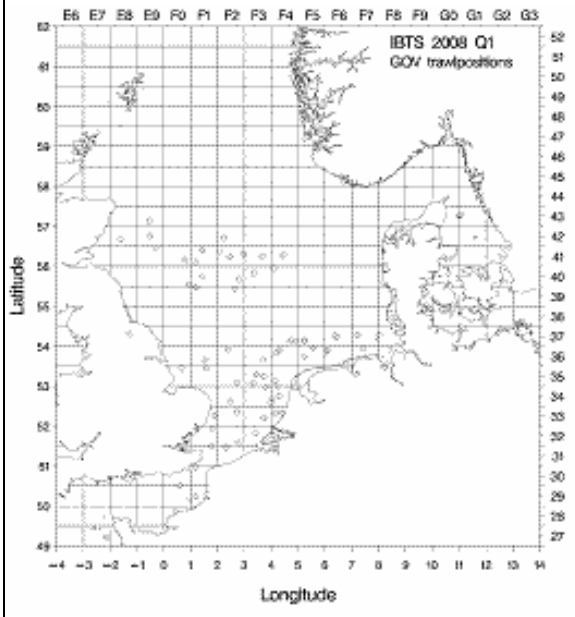
A	67	hauls	GOV	GOV- Bottom trawl (Grand Ouverture Verticale); Numbers and length-frequencies of all fish; numbe or weight of all benthos
A	67	stations	CTD	Temperatures and salinities at vertical gradient
A	91	hauls	MIK	MIK net (Method Isaac Kitt); Numbers and length-frequencies of clupeid larvae

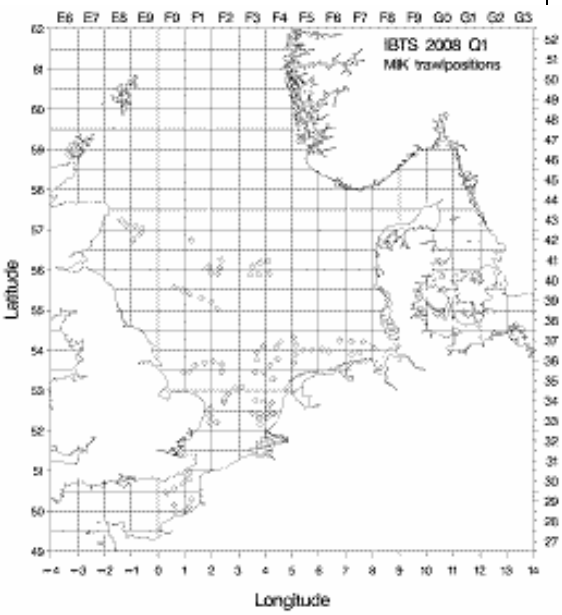
TRACK CHART: You are strongly encouraged to submit with the completed report, an annotated track chart illustrating the route followed and the points where measurements were taken.	√ Insert a tick (√) in this box if a track chart is supplied.

GENERAL OCEAN AREA(S):
NORTH SEA, EASTERN CHANNEL

SPECIFIC AREAS: -

GEOGRAPHIC COVERAGE - INSERT 'X' IN EACH SQUARE IN WHICH DATA WERE COLLECTED





THANK YOU FOR YOUR COOPERATION

Please send your completed report without delay to the collating centre indicated on the cover page.