

**COMPILATION ON**

**SHIP ACCIDENTS**

**IN THE BALTIC SEA AREA**

**1989 - 1999**

**FINAL REPORT**

**PREPARED BY THE MINISTRY OF ENVIRONMENT PROTECTION  
AND REGIONAL DEVELOPMENT OF THE REPUBLIC OF LATVIA**

**MARINE ENVIRONMENT BOARD**

for HELCOM SEA 2/2001

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## **INTRODUCTION**

Pollution of the Baltic Sea Area due to ship transport has been recognized as an actual problem since the Baltic Sea States adopted the Helsinki Convention.

Ships could cause marine environment pollution not only by violating pollution prevention regulations, but also getting into an accident that makes spillages of oil or other harmful substances. Discussion on safety of tankers carrying high-density fuel oils has been going on in frames of the Helsinki Commission (HELCOM) for several years. At present a Swedish proposal to ban certain single hull tankers from operation in the Baltic Sea Area has been brought forward for discussion in the Sea based pollution group (HELCOM SEA).

On the basis of this proposal submitted by Sweden to HELCOM MC 25/99 and reproduced in the document HELCOM SEA 1/2000, 2.3/1 "*Oil transportation in the Baltic Sea Area and the risk for accidental oil pollution from large single hull oil tankers*" Latvia proposed to carry out data compilation on all ship accidents occurred during the last 10 years in the Baltic Sea Area in order to get information on dynamics of ship accidents depending on type of a ship.

The intention of this compilation was to obtain an overview of all ship accidents from 1989 to 1999 in the Baltic Sea Area, not only on accidents involving single or double hull oil tankers. Representation of these accidents in a map would allow to identify the main locations of ship accidents, types of ships involved into accidents and consequences for the marine environment.

As it was stated in the HELCOM SEA 1/2000 meeting, on the basis of this compilation it should be considered whether there is a need for further actions to be proposed, as well as this information could be used in an updated assessment of the risk of oil spills in the Baltic Sea Area which should serve as a background material for possible reassessment of the HELCOM combatting plan.

## **SHORT DESCRIPTION OF THE PROJECT**

### **Collecting of information**

In order to obtain information on ship accidents during the last 10 years in the Baltic Sea Area there was elaborated a data collection table that Contracting Parties filled-in.

All data submitted by the Contracting Parties were compiled in a common table and some necessary specifications were made afterwards.

### **Data processing and map making**

As a basis for representation of ship accident data in a map was used the map of the Baltic Sea Area kindly provided by Ms. Sunhild Wilhelms from BSH (*Bundesamt fuer Seeschifffahrt und Hydrographie*), Germany.

There were created several data tables in Map Info 4.5 format concerning time, location and consequences of accidents, type of a ship, tonnage etc.

Considering that the compilation concerns only accidents in the Baltic Sea Area, data on lakes and rivers, which some countries submitted, were not taken into account.

Data were classified and the following graphs:

- Ship accidents and types of ships involved in the accidents from 1989 to 1999;
- Single hull and double hull oil tanker accidents with and without oil pollution;

and maps were made:

- All ship accidents causing oil pollution;
- Single hull and double hull oil tanker accidents;
- Single hull oil tanker accidents with and without oil pollution;
- Double hull oil tanker accidents with and without oil pollution;
- Single hull oil tanker accidents with oil pollution depending on amount of pollution;
- Ship collisions;
- Ship groundings.

A map on double hull oil tanker accidents depending on amount of pollution was not made because data only on two cases, where amount of pollution is known, were submitted, in both – it was  $< 10 \text{ m}^3$ .

## **Project results**

The draft of the project final report was sent to the HELCOM Secretariat and to all Contracting Parties for possible additions or corrections. There were received a few comments from Lithuania and Russia and some changes made accordingly.

The compilation was presented at the HELCOM SEA 2/2001 meeting, where also some comments and proposals were received from the Contracting Parties. During the finalization of the compilation were got also data from Germany, so that the compilation now contains data of all HELCOM Contracting Parties.

### **The following conclusions were drawn:**

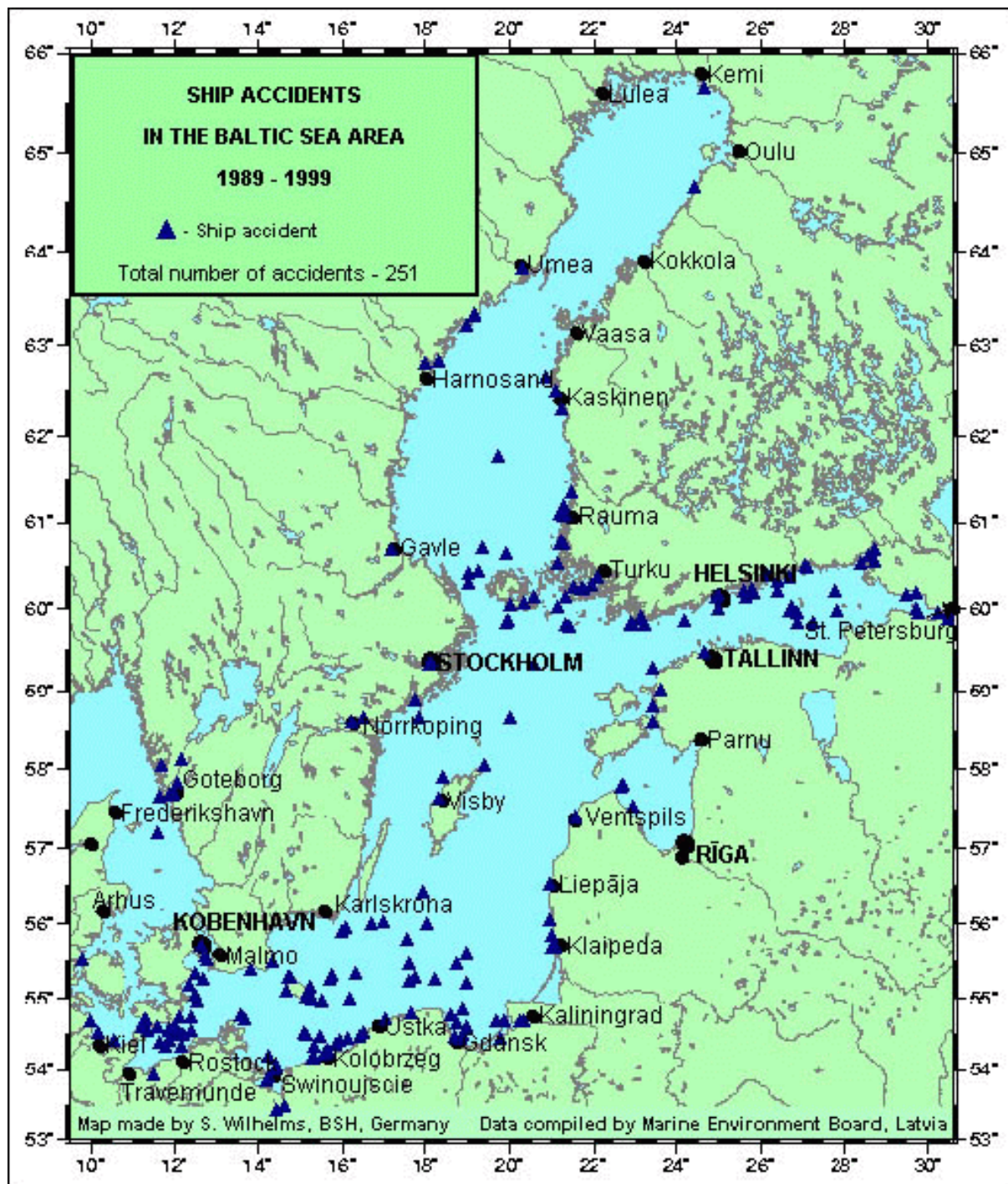
- The total number of ship accidents occurred in the Baltic Sea Area from 1989 to 1999 is **251**, cf. Map “Ship accidents in the Baltic Sea Area, 1989 - 1999”.

Using this map, there should be noted that information provided by some Contracting Parties included also accidents of small fishing vessels and very small ships, like yachts with DW of 4-15 BRT, while some Contracting Parties ship tonnage did not report at all or reported only on tankers. Thus, considering a dense picture of ship accidents in the Southern part of the Baltic Sea there should be kept in mind that there are also a lot of small vessels among them.

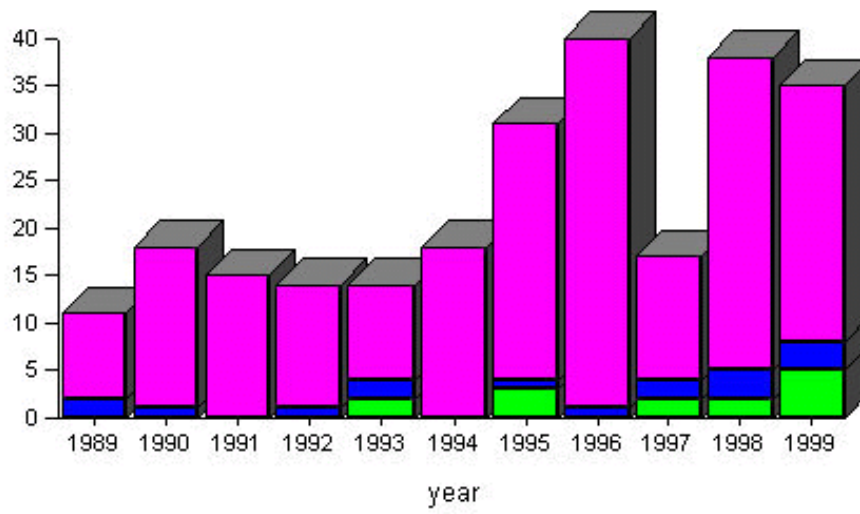
To get a more equitable outlook on ship accidents in the Baltic Sea Area, in the future there could be included only data on so called - conventional ships, i.e., oil tankers of 150 GT and above as well as other ships of 400 GT and above.




- Accidents mostly have occurred near the straits and port areas;
- Marine environment pollution caused by the accidents of single hull tankers is more frequent than that of double hull tankers (12 and 2, respectively).

According with the decision of the HELCOM SEA 2/2001 (paragraph 2.112 of the Minutes from HELCOM SEA 2/2001) there will be elaborated such maps on annual basis also in the future and Latvia will continue as Lead Country.

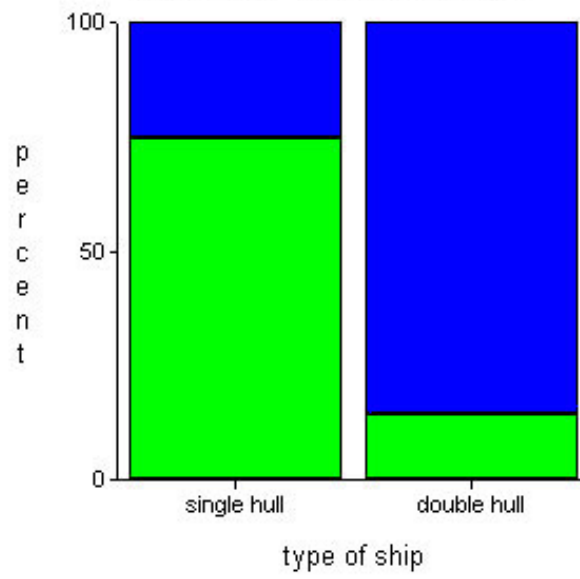



## Ship accidents




-  - double hull tankers
-  - single hull tankers
-  - others

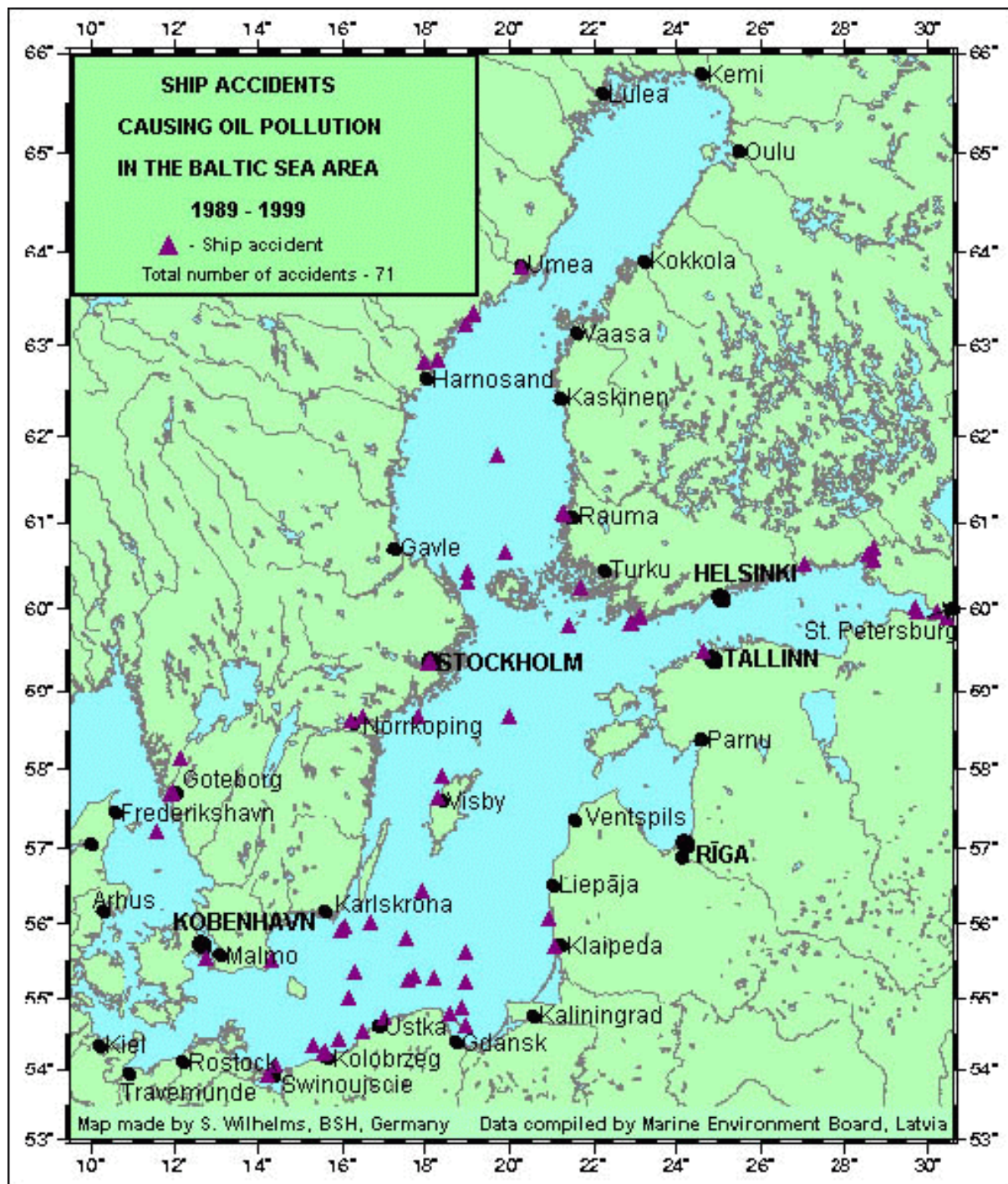
## Tanker accidents

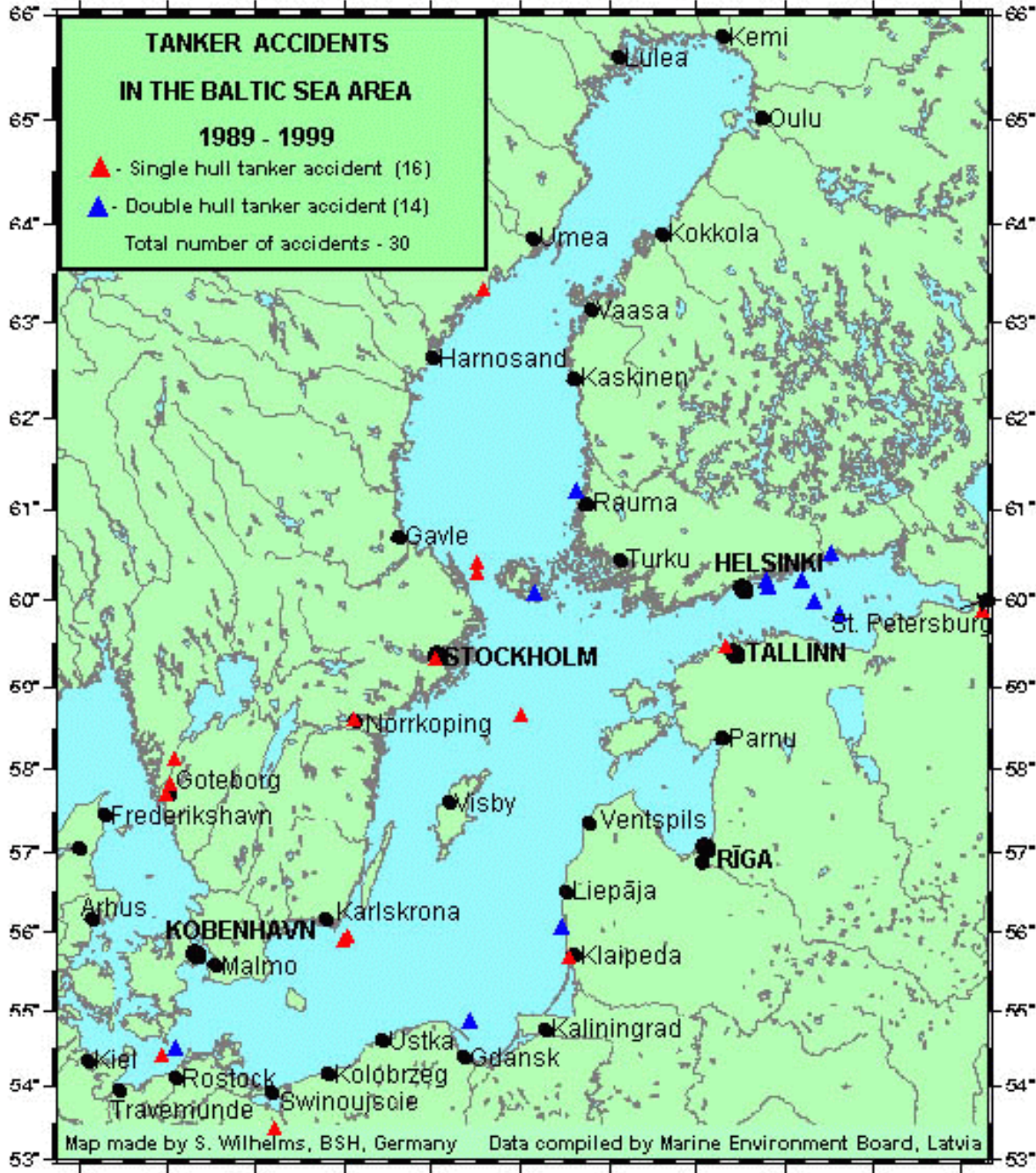
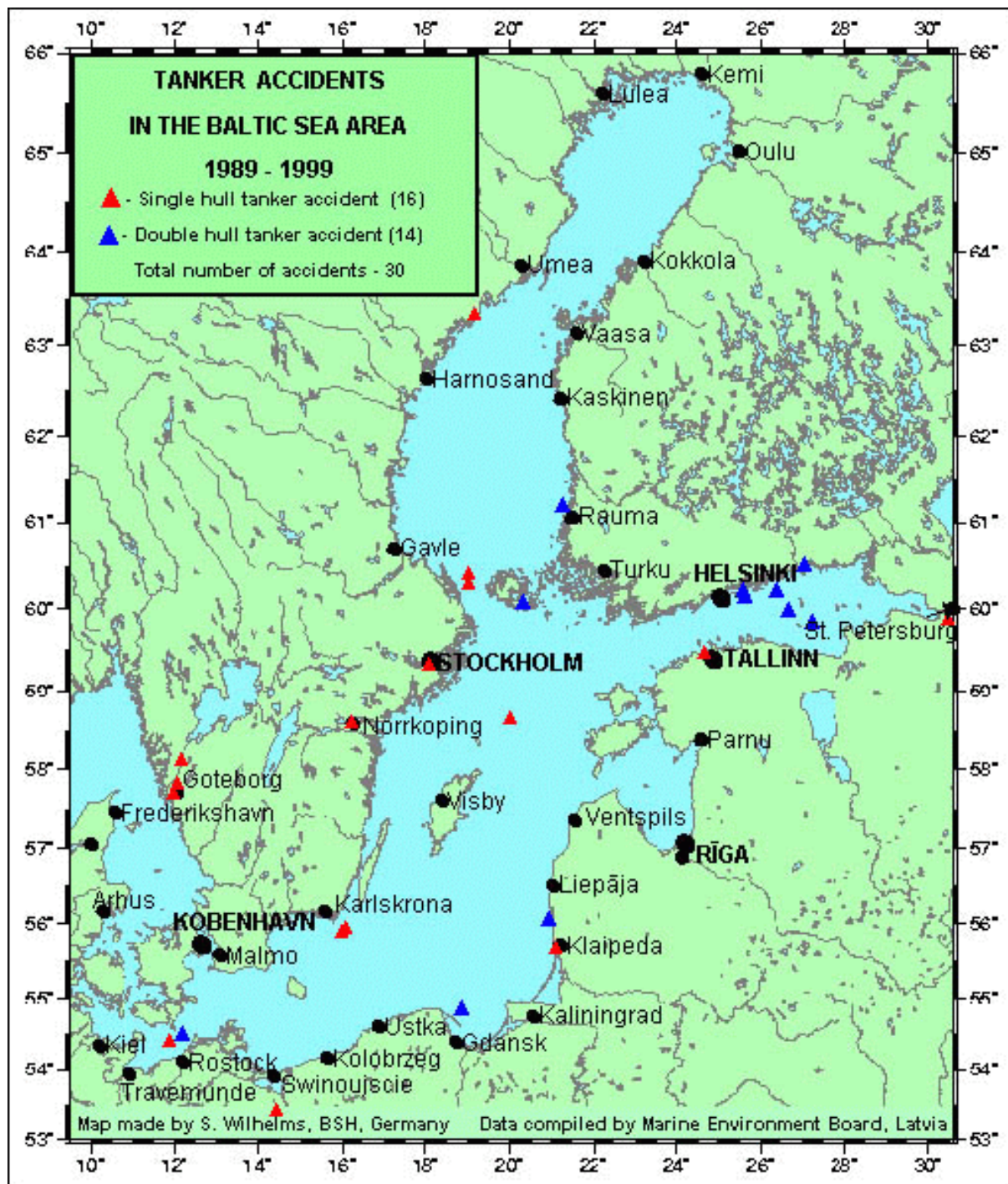


 - accidents with oil pollution

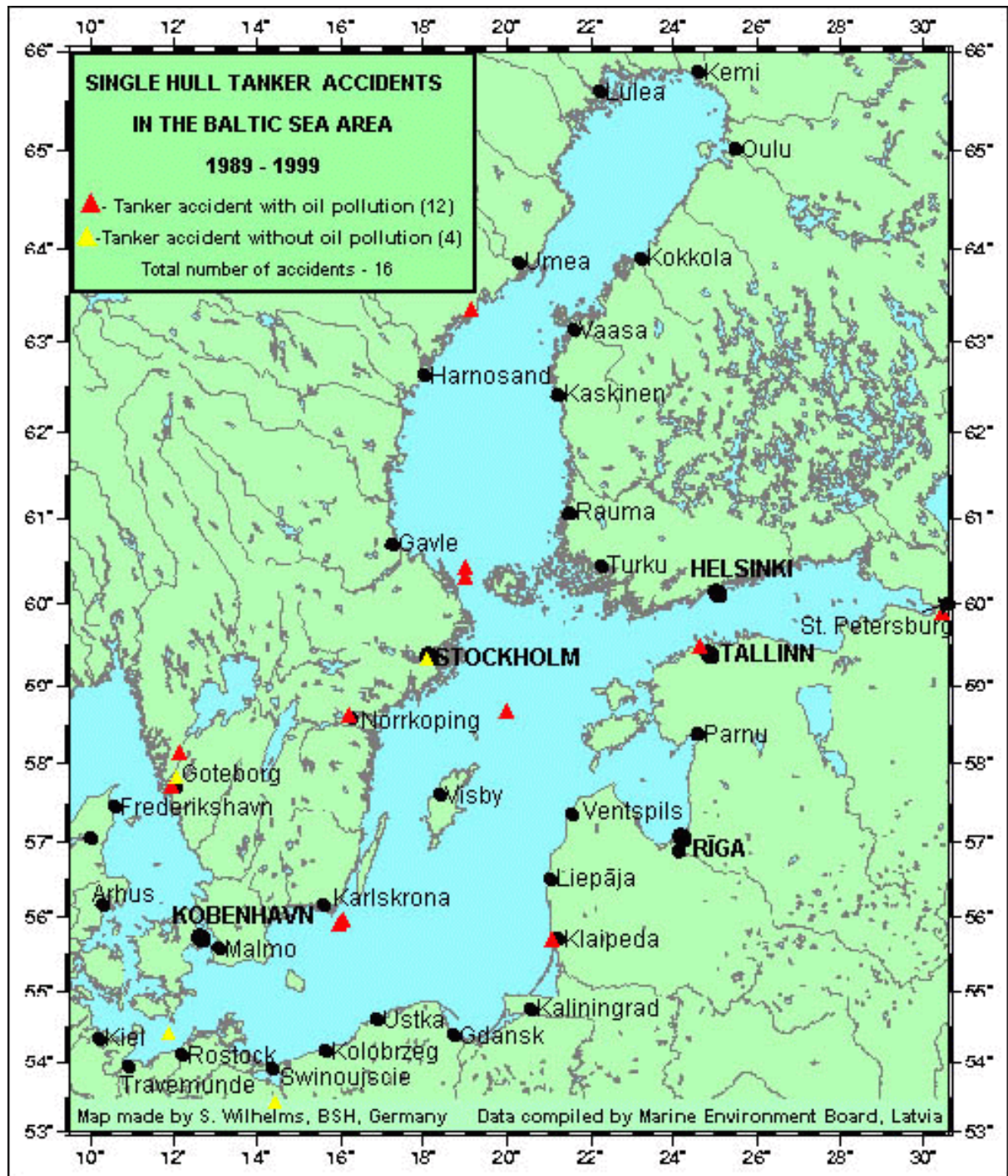
 - accidents without oil pollution

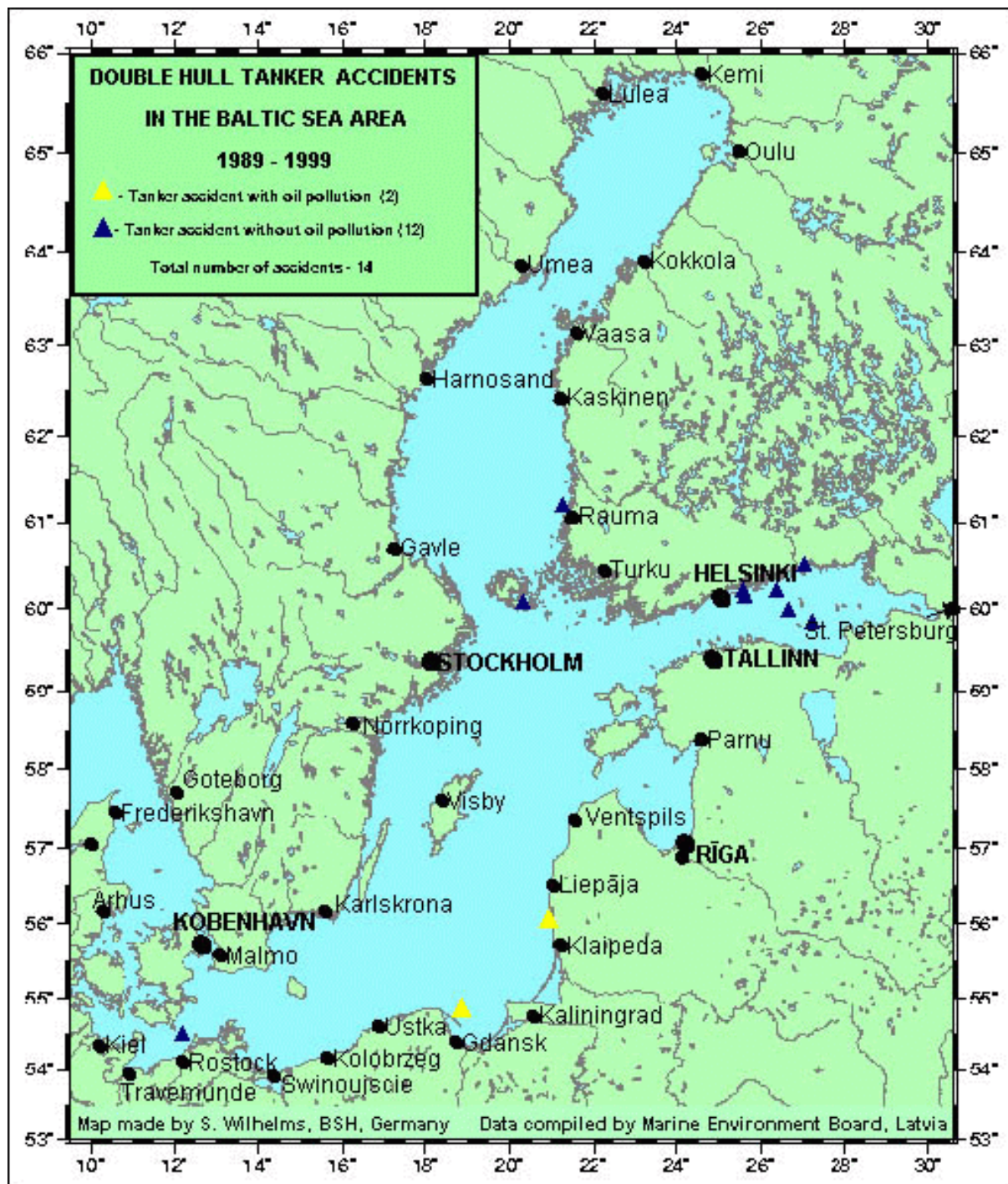




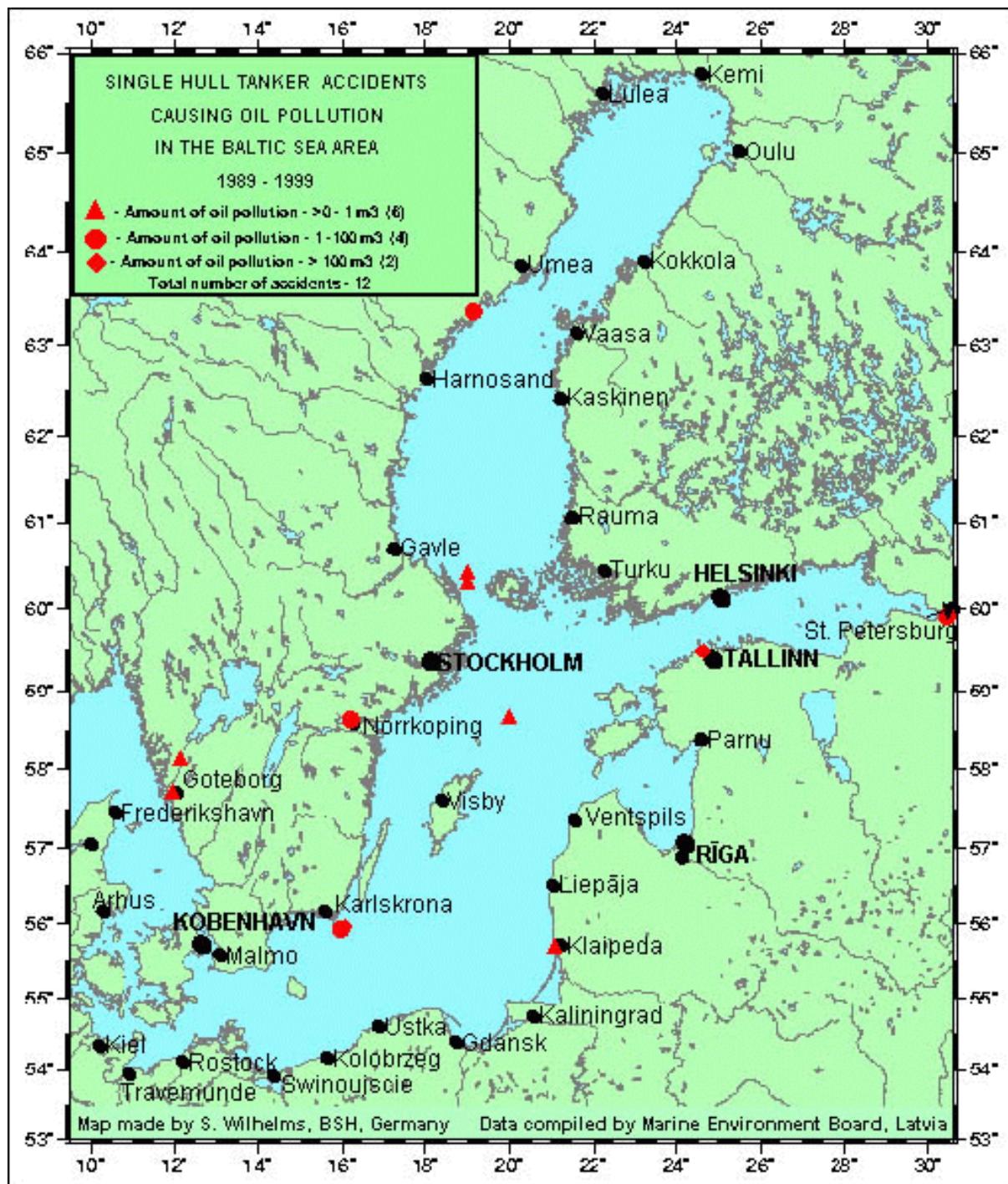


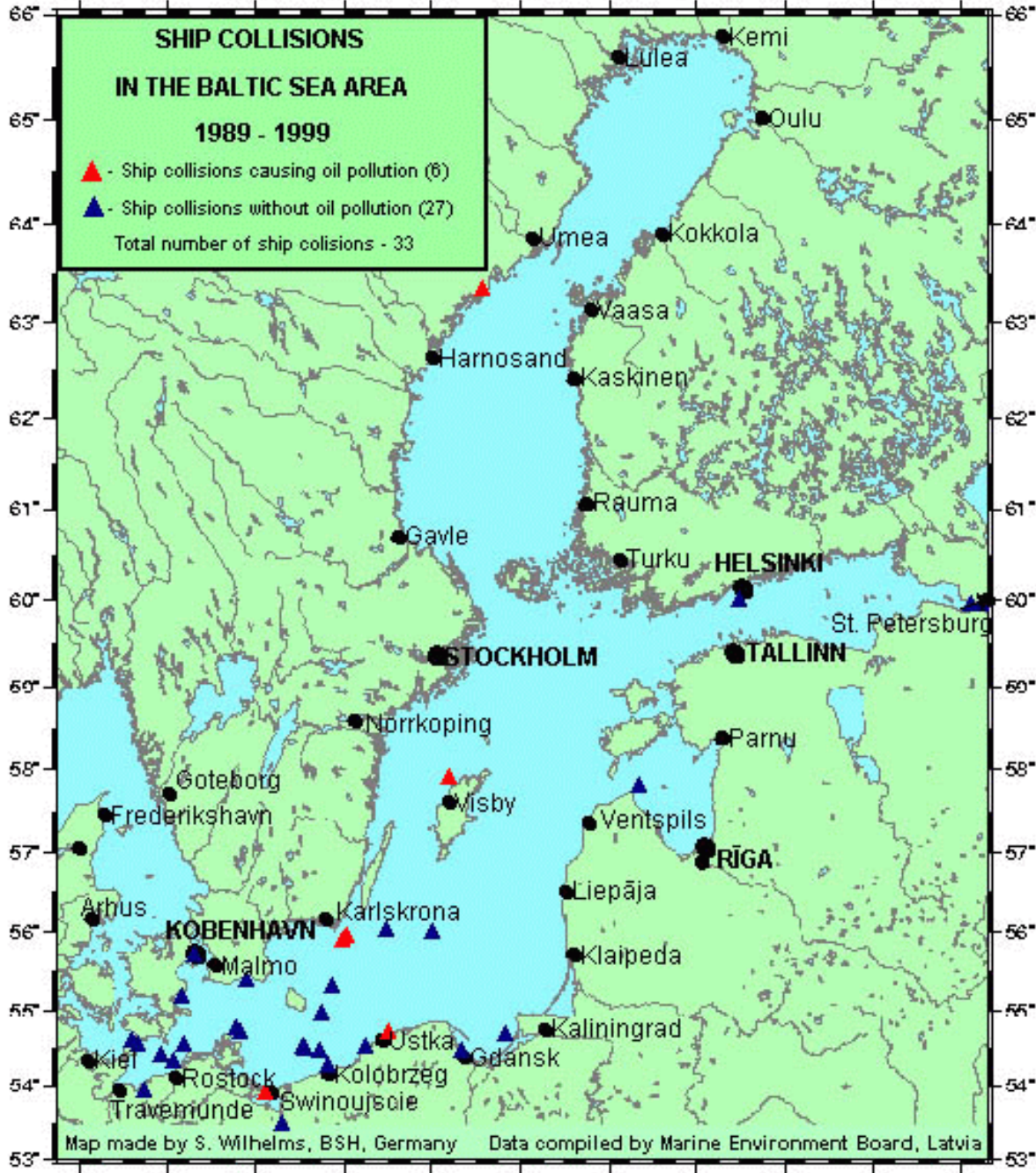
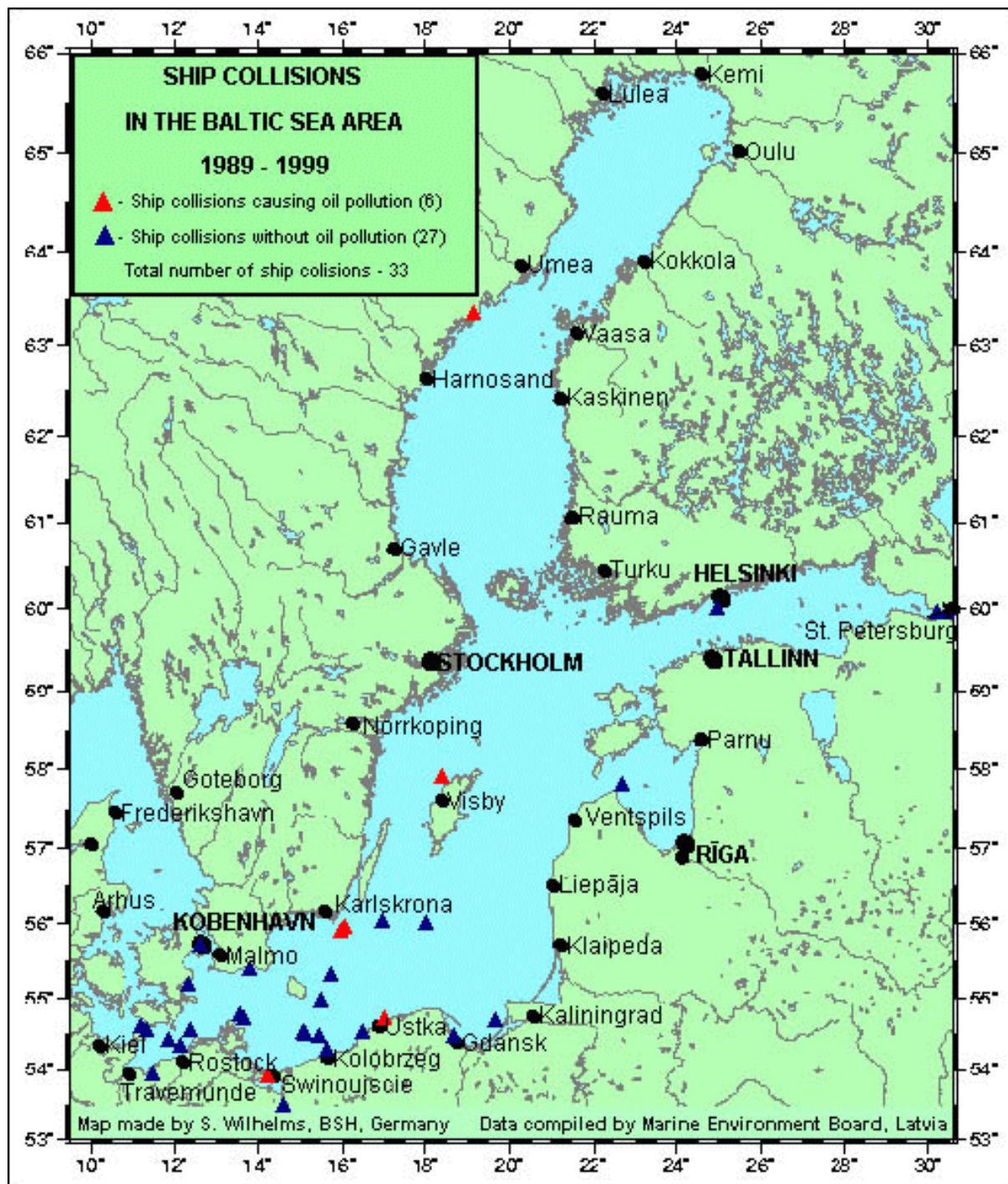




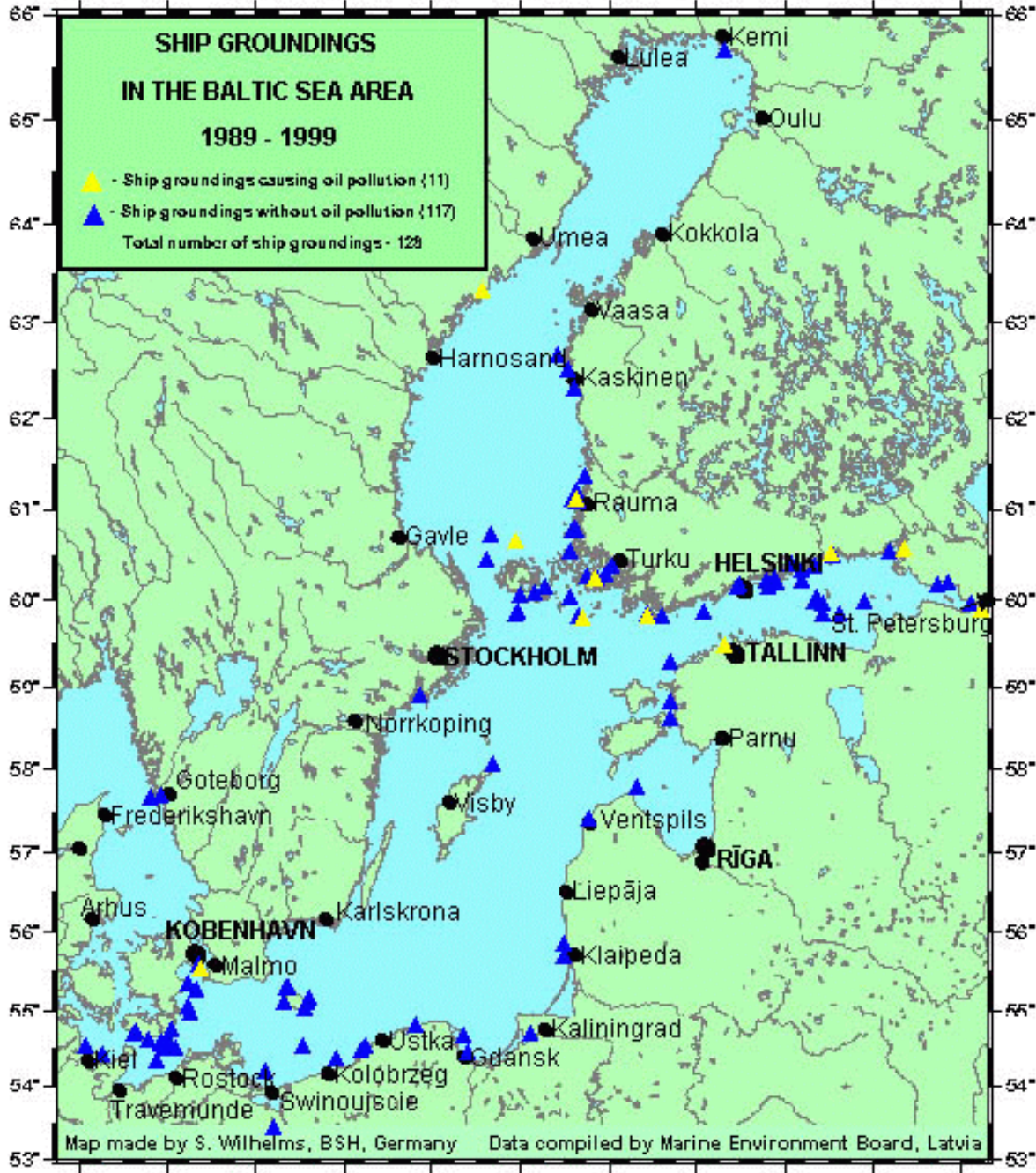
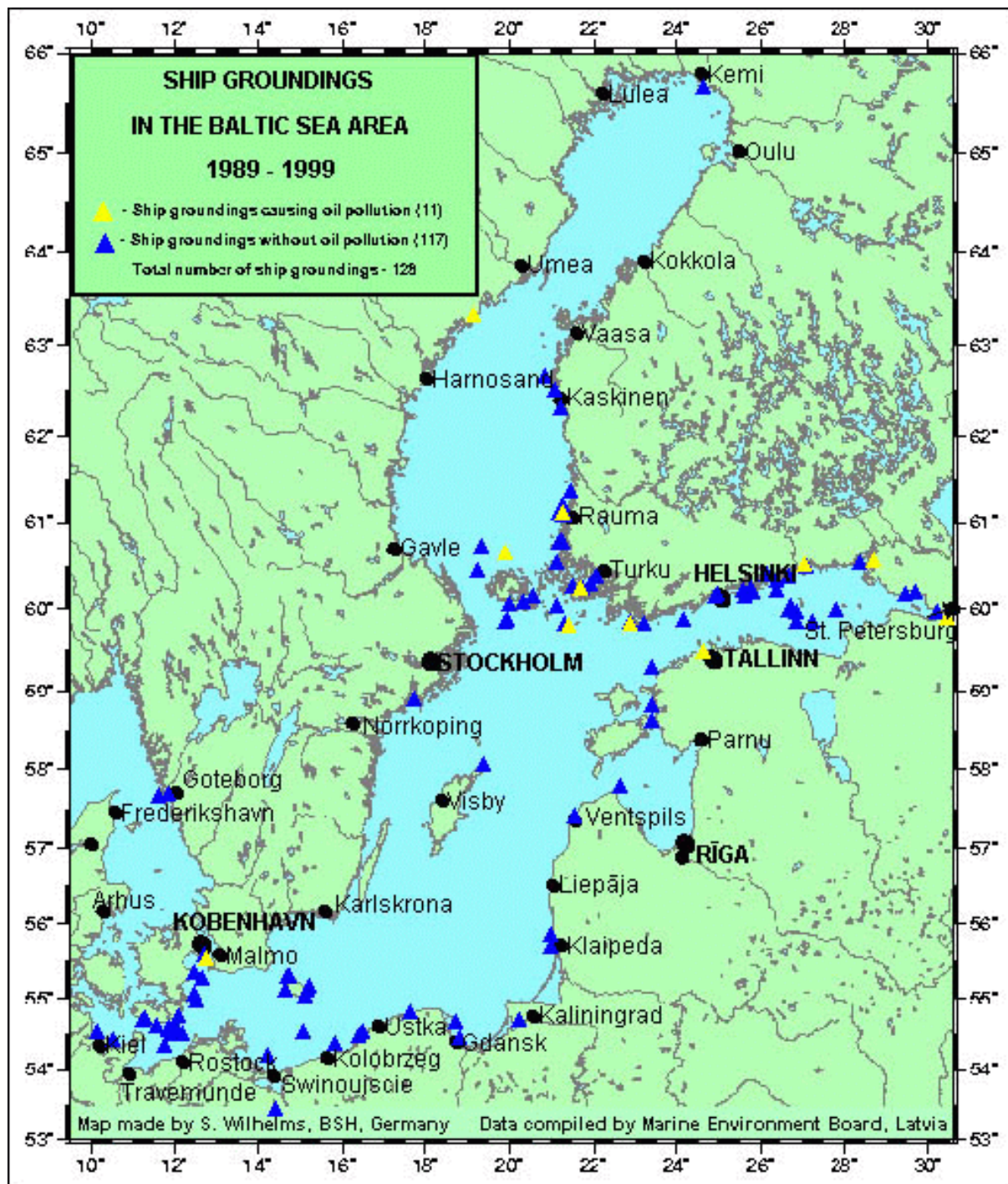












## **ANNEX**

### **DATA TABLE OF SHIP ACCIDENTS IN THE BALTIC SEA AREA, 1989 - 1999**



Nr	Id_Nr	Year	Date	Ship	Type	Tonn_dwt	Lat_N	Long_E	Type_of_accident	Type_of_pollution	Pollution_cubm
001	190	1 989	07/01/1989	Argus, Swinoujscie, Poland	Tug	336.4	53,900	14,200	collision	oil	0,00
002	241	1 989	04/1989	Frizis Rosin, USSR	Other	2000	58,800	23,400	grounding	no	0,00
003	191	1 989	18/05/1989	Kol-36, Poland	Other	42	54,500	15,067	collision	no	0,00
004	1	1 989	29/05/1989	Stena Nordica, Sweden, SMOF	Pass. ro-ro	1200	57,683	11,917	refueling	oil	0,10
005	240	1 989	05/1989	Turinsk, USSR	Other	3500	58,600	23,400	grounding	no	0,00
006	90	1 989	13/06/1989	Ms Saronikos II, GRE	Other	16160	60,362	26,692	grounding	no	0,00
007	136	1 989	27/08/1989	Seebong	Coaster		54,717	12,067	grounding	unknown	0,00
008	69	1 989	10/1989	Sprante, FRG	Other	2000	- 60,525	28,383	grounding	no	0,00
009	137	1 989	25/12/1989	Povl Anker, Denmark, OYRA	Ferry	2361	55,367	13,800	collision	unknown	0,00
010	2	1 989	29/12/1989	Forsvik, Sweden, SJPV	Single hull tanker	3898	57,702	11,950	loading	oil	0,30
011	253	1 989	1989		Single hull tanker	>150 GRT	54,400	11,863	collision	no	0,00
012	138	1 990	08/02/1990	Trawemunde Link	Ferry		54,550	11,967	grounding	unknown	0,00
013	91	1 990	14/02/1990	Ms Blue Stone, GRE	Other	7848	59,832	22,872	grounding	no	0,00
014	139	1 990	14/03/1990	Tareomoro	Barge		55,450	18,733	wrecked	unknown	0,00
015	140	1 990	29/03/1990	Lady Sky	Dry cargo	83713	55,067	14,650	grounding	unknown	0,00
016	92	1 990	09/05/1990	Push-pram, FIN/Board, FIN	Other	14447	59,828	19,923	grounding	no	0,00
017	3	1 990	14/05/1990	Volganef 263, Russia, EOXN	Single hull tanker	Br. 3481	55,950	16,067	collision	oil	125,00
018	93	1 990	20/05/1990	Isaksson, FIN	Tug		60,760	21,302	grounding	no	0,00
019	4	1 990	14/06/1990	Monika Ehler, Germany, DFMC	General cargo	3070	57,900	18,400	collision	oil	5,00
020	192	1 990	25/06/1990	Dar-126, Poland	Other	12	54,433	16,367	grounding	unknown	0,00
021	70	1 990	07/1990	Fc-59, USSR	Other	250	59,967	27,817	grounding	no	0,00
022	193	1 990	21/09/1990	Jurand, Poland	Other	20	54,650	18,700	grounding	no	0,00
023	5	1 990	11/10/1990	Heidarstundur, The Faroes, OW2175	Fishing	Br. 182	55,476	14,326	leakage	oil	0,10
024	94	1 990	17/11/1990	Sanna, FIN	Other	1319	59,789	22,882	grounding	no	0,00
025	71	1 990	11/1990	Reinworld Crizemark, FRG	Other	2000	60,150	29,500	grounding	no	0,00
026	6	1 990	12/12/1990	Sterno, Sweden, SLCU	General cargo	Br. 499	58,648	16,510	propeller damage	oil	15,00
027	95	1 990	27/12/1990	Finn-Baltic, FIN	Other		59,808	22,958	overturn	oil	37,50
028	96	1 990	27/12/1990	Ro-Ro Trans-Germania, GER	Other	5233	59,790	21,333	grounding	no	0,00
029	255	1 990	1990		Other	>150 GRT	53,908	11,442	collision	no	0,00
030	97	1 991	11/01/1991	Antares, FIN	Other	9113	61,108	21,269	grounding	oil	15,00
031	175	1 991	06/02/1991	RO-RO Finnmaid, SV	Other		60,033	20,000	grounding	no	0,00
032	98	1 991	27/03/1991	Albany, FIN	Other		61,767	19,733	fire	oil	0,25
033	99	1 991	07/04/1991	Trade Wind, CYP	Other	3089	62,301	21,217	grounding	no	0,00
034	141	1 991	17/04/1991	Canopus, Finland, 9HFN4	Bulker	8815	54,567	11,833	grounding	unknown	0,00
035	142	1 991	29/04/1991	Baltika PM 1001, Russia	Trawler		54,983	15,133	grounding	unknown	0,00
036	72	1 991	04/1991	Tb-0051, USSR	Other	110	59,933	26,883	grounding	no	0,00
037	249	1 991	29/05/1991	Redwud, GRE	Other		59,880	23,150	propeller failure	oil	1,25
038	100	1 991	21/10/1991	Ms Apikaran, IND	Other		60,717	19,333	grounding	no	0,00

Nr	Id_Nr	Year	Date	Ship	Type	Tonn_dwt	Lat_N	Long_E	Type_of_accident	Type_of_pollution	Pollution_cubm
039	101	1991	11/11/1991	See Rose	Other		61,367	21,467	grounding	no	0,00
040	242	1991	14/11/1991	Docebrisa, Brazil, ELPB4	Bulker	75594	54,500	12,000	grounding	unknown	0,00
041	243	1991	17/11/1991	Belchatow, Poland, SQHE	Bulker	71277	54,530	11,870	grounding	unknown	0,00
042	73	1991	12/1991	Stb-0670	Other	170	59,275	23,417	grounding	no	0,00
043	256	1991	1991		Other	>150 GRT	54,704	13,649	colision	no	0,00
044	257	1991	1991		Other	>150 GRT	54,483	15,100	colision	no	0,00
045	143	1992	01/02/1992	Parocean, Myanmar, XYLA	Bulker	38870	54,483	11,983	grounding	unknown	0,00
046	102	1992	27/02/1992	Fram, FIN	Tug		60,272	21,940	grounding	no	0,00
047	194	1992	29/02/1992	SM-PRC-112, Poland	Barge	579,64	54,500	16,500	colision	no	0,00
048	195	1992	30/06/1992	Dar-33	Other	15	54,417	16,133	other	no	0,00
049	103	1992	22/07/1992	Pamisos, GRE	Other		60,638	19,910	grounding	oil	12,50
050	74	1992	08/1992	Yacht Sjuyd, USSR	Other	4	60,191	29,700	grounding	no	0,00
051	144	1992	11/09/1992	STK-1004, Russia, UBEM	River	1669	54,950	12,517	grounding	unknown	0,00
052	67	1992	22/10/1992	Valur, Iceland, TTF1341	Dry cargo	945	60,560	28,740	grounding	oil	1,00
053	196	1992	12/11/1992	Pan Fortune, South Korea	Bunker	19,118	54,192	18,720	grounding	no	0,00
054	197	1992	26/11/1992	Miz-21, Poland	Other	50	54,133	15,267	other	unknown	0,00
055	176	1992	28/11/1992	Tiksi, SU	Other		61,083	21,333	propeller failure	oil	1,25
056	75	1992	11/1992	Valvr, Norway	Other	2000	60,625	28,567	capsize	oil	15,00
057	7	1992	01/12/1992	Konstantin Tsiolkovski, Russia, UWZB	Single hull tanker	Br. 10814	63,333	19,167	colision	oil	12,50
058	258	1992	1992		Other	>150 GRT	54,389	10,500	grounding	no	0,00
059	37	1993	16/01/1993	Kihnu, Estonia	Single hull tanker	1621	59,472	24,636	grounding	oil	102,50
060	145	1993	17/03/1993	Madeira, Hong Kong, ZEKJ	Fishing vessel		54,967	15,233	wrecked	unknown	0,00
061	105	1993	26/03/1993	Kari/Vesikko, FIN	Other	168	60,756	21,180	grounding	unknown	0,00
062	104	1993	30/04/1993	Jenny V, PAN	Other	1860	60,020	26,733	grounding	no	0,00
063	177	1993	05/07/1993	Flip, FIN	Other		60,250	21,500	grounding	unknown	0,00
064	8	1993	10/08/1993	Vaalaam, Latvia, YLMH	Single hull tanker	Br. 3463	55,891	15,943	colision	oil	6,25
065	250	1993	13/08/1993	West, FIN	Tug		60,210	25,760	grounding	no	0,00
066	106	1993	24/09/1993	Mt Crystal Rubino, ITA	Double hull tanker	8002	60,212	26,410	grounding	no	0,00
067	9	1993	10/10/1993	Frank Michael, Germany, DLED	General cargo	1880	58,062	19,363	grounding	amonnium phosphate	1 703,00
068	107	1993	16/11/1993	Mt Ambiorix, GRE	Double hull tanker	Br. 1772	61,203	21,288	grounding	no	0,00
069	108	1993	17/11/1993	Feeder Team, GER	Other	1028	60,760	21,209	grounding	unknown	0,00
070	146	1993	30/11/1993	Jesper Hansen, Denmark	Fishing vessel		54,367	11,583	wrecked	unknown	0,00
071	109	1993	10/12/1993	Anna A, OTH	Other	27370	60,012	21,120	grounding	unknown	0,00
072	259	1993	1993		Other	>150 GRT	54,516	11,313	colision	no	0,00
073	198	1994	11/02/1994	Miz-9, Poland	Other	8	54,150	15,300	other	unknown	0,00
074	251	1994	02/03/1994	Ladoga 12, SU	Other		59,880	23,150	ice damage	oil	7,50
075	110	1994	04/03/1994	Sally Albatross, Fin	Other	1630	59,855	24,176	grounding	unknown	0,00
076	111	1994	15/04/1994	Astrea, FIN	Other	6672	60,183	25,828	grounding	unknown	0,00

Nr	Id_Nr	Year	Date	Ship	Type	Tonn_dwt	Lat_N	Long_E	Type_of_accident	Type_of_pollution	Pollution_cubm
077	178	1994	18/04/1994	Phoenix, GER	Other		60,237	25,790	grounding	no	0,00
078	199	1994	22/04/1994	UST-4, Ustka, Poland	Other		55,217	17,567	oil spill	oil	0,00
079	68	1994	28/07/1994	Captain Lus	Dry cargo	4618	60,700	28,740	bunkering	oil	0,63
080	112	1994	27/08/1994	Park Victory, USA	Wreck		59,772	21,405	grounding	oil	0,00
081	179	1994	01/09/1994	Ruoppaaja	Dredger	3345	62,500	21,083	sinking	unknown	0,00
082	113	1994	28/09/1994	Estonia, EST	Other		59,321	20,567	sunk	unknown	0,00
083	185	1994	01/10/1994	Kehnwiederill, FIN	Other		61,083	21,333	grounding	unknown	0,00
084	147	1994	13/10/1994	Yellow Amber, Cyprus	Bulker	63789	54,500	11,933	grounding	unknown	0,00
085	38	1994	03/11/1994	Marija, Lithuania, LYIA	Other	1652	55,467	17,567	hull damage	no	0,00
086	51	1994	05/11/1994	Baltiyskiy-62, UALF	Dry cargo		54,667	9,933	run into touch	no	0,00
087	114	1994	17/11/1994	Friedrich Engels, RUS	Other	12652	61,100	21,183	grounding	unknown	0,00
088	200	1994	15/12/1994	Red Hunter, Panama			54,467	18,867		unknown	0,00
089	260	1994	1994		Other	>150 GRT	54,445	18,647	collision	no	0,00
090	261	1994	1994		Other	>150 GRT	54,489	10,137	grounding	no	0,00
091	201	1995	03/01/1995	UST-102, Poland	Fishing vessel	102 BR	54,700	17,000	collision	oil	8,00
092	244	1995	27/01/1995	Heike Lehmann, Germany, DKUB	Dry cargo	3051	55,260	14,680	grounding	unknown	0,00
093	115	1995	30/01/1995	Fjardvagen, FIN	Other	775	60,218	21,737	grounding	unknown	0,00
094	39	1995	08/02/1995	Jurbarkas, Lithuania	Other	2116	54,717	12,383	hull damage	no	0,00
095	116	1995	28/02/1995	Mt Lieselotte Essberger, GER	Double hull tanker	3752	60,058	20,323	grounding	unknown	0,00
096	180	1995	08/03/1995	RO-RO Oihonna, FIN	Other	6061	60,517	27,083	grounding	oil	81,25
097	202	1995	12/03/1995	Huta Sendzimira, Poland	Bulker	35,642	54,183	14,201	grounding	no	0,00
098	10	1995	13/03/1995	Kreva, Lithuania, LTDA	General cargo	4471	63,311	19,155	grounding	oil	27,50
099	117	1995	13/03/1995	Westwind, FIN	Other	1530	59,845	19,934	grounding	unknown	0,00
100	118	1995	19/03/1995	Transbaltica, CYP	Other	Br. 1224	60,215	21,705	grounding	oil	1,25
101	245	1995	27/03/1995	Vasily Kovar, Ukraine	Bulk carrier		54,500	12,000	grounding	unknown	0,00
102	119	1995	22/04/1995	Tallink, FIN	Other	948	60,138	24,950	grounding	unknown	0,00
103	203	1995	25/04/1995	WLA-67, Wladyslawo, Poland	Fishing vessel		55,235	18,184	oil spill	oil	0,06
104	204	1995	10/05/1995	R-218, Denmark	Fishing vessel		55,317	16,278	oil spill	oil	0,05
105	120	1995	28/05/1995	Oris, GER	Other	Br. 6876	60,402	26,287	grounding	unknown	0,00
106	11	1995	04/08/1995	Oden, Sweden, SMLQ	Ice breaker	13000	59,333	18,083	techn. failure	oil	12,50
107	121	1995	17/08/1995	Wiebtek, ANT	Other	7800	59,803	22,883	grounding	oil	1,25
108	186	1995	21/08/1995	Ruoppaaja	Dredger		62,500	21,083	grounding	unknown	0,00
109	122	1995	24/08/1995	Mt Volgoneft 245, RUS	Double hull tanker	4768	60,206	25,620	grounding	no	0,00
110	205	1995	25/08/1995	HEL-135, Hel, Poland	Fishing vessel		55,585	18,975	oil spill	oil	0,10
111	52	1995	29/08/1995	Polesye-9	Dry cargo		54,333	19,750	run into touch	no	0,00
112	53	1995	18/09/1995	Amur 2524	Dry cargo		54,667	19,667	collision	no	0,00
113	12	1995	12/10/1995	Hual Trooper, Bahamas, C6NA3	Vehicle carrier	21414	55,512	12,755	grounding	oil	250,00
114	76	1995	10/1995	Volgo-neft-130	Double hull tanker	5000	59,967	26,700	grounding	no	0,00

Nr	Id_Nr	Year	Date	Ship	Type	Tonn_dwt	Lat_N	Long_E	Type_of_accident	Type_of_pollution	Pollution_cubm
115	40	1995	11/11/1995	Zeimena, Lithuania, LYAM	Other	69	54,667	21,100	grounding	no	0,00
116	123	1995	13/11/1995	Finnmaster, FIN	Other	6800	60,476	27,134	grounding	unknown	0,00
117	13	1995	13/12/1995	Tritoa Av Goteborg, Sweden, SGMW	Single hull tanker	600	58,125	12,125	leakage	oil	0,20
118	45	1995	1995	Orchik, Estonia, YLIW	Fishing vessel	627	57,783	22,650	grounding	no	0,00
119	46	1995	1995	Drava, Latvia, UL2039	Fishing vessel	44	57,400	21,550	grounding	no	0,00
120	262	1995	1995		Other	>150 GRT	54,583	11,167	collision	no	0,00
121	263	1995	1995		Other	>150 GRT	54,313	11,753	grounding	no	0,00
122	206	1996	02/01/1996	Andronikap, Valetta, Greece	Other		54,575	18,942	oil spill	oil	3,00
123	54	1996	15/01/1996	Volgo-Balt-32, Russia, UAFD	Dry cargo	Gt. 2426	55,700	12,600	collision	no	0,00
124	124	1996	18/01/1996	Draco, DEN	Other	2600	60,224	21,709	grounding	unknown	0,00
125	14	1996	30/01/1996	Holmon, Sweden, SKTP	General cargo	8200	58,877	17,720	grounding	no	0,00
126	148	1996	01/02/1996	Kol-9, Poland	Fishing vessel		54,983	15,133	grounding	unknown	0,00
127	55	1996	02/02/1996	Chelekenskiy	Refrigerator		60,000	25,000	collision	no	0,00
128	15	1996	13/02/1996	Tom Lis, Portugal, CSEG	Single hull tanker	2541	57,833	12,017	leakage	orthoxylen	0,50
129	246	1996	13/02/1996	Gitte, Germany, DFCU	Fishing vessel		54,500	12,000	grounding	unknown	0,00
130	149	1996	18/02/1996	Rostok Link	Ferry		54,567	11,983	grounding	unknown	0,00
131	16	1996	23/02/1996	Nora, Sweden, SMQV	Ferry	Br. 241	62,800	17,950	techn. failure	oil	0,10
132	150	1996	29/02/1996	Favorita, Malta	Bulker	44537	54,500	12,050	grounding	unknown	0,00
133	151	1996	29/02/1996	Kristian	Bulker		54,567	11,983	wrecked	unknown	0,00
134	41	1996	14/03/1996	Mindaugas, Lithuania, LYOB	Other	4200	62,650	20,833	grounding	no	0,00
135	17	1996	14/03/1996	West Sky, Sweden, SBXC	General cargo	3800	57,687	11,825	grounding	no	0,00
136	57	1996	15/03/1996	Lezhevo, UAVZ	Dry cargo	3002	55,250	12,667	grounding	no	0,00
137	56	1996	10/04/1996	Krovus, UJNM	Dry cargo		55,167	12,333	collision	no	0,00
138	59	1996	05/05/1996	Stera, Netherlands	Dry cargo		56,000	18,000	collision	no	0,00
139	207	1996	18/05/1996	Felix, Antigua	Barge	2,610	53,450	14,560	collision	no	0,00
140	125	1996	21/05/1996	Pamela, FIN	Other	1056	61,091	21,293	grounding	unknown	0,00
141	77	1996	05/1996	Fws, Russia	Other	1200	59,933	30,242	sunk	oil	5,00
142	58	1996	01/06/1996	Friz Gekkert, UNTI	Rephregator	8324	54,667	19,833	run into touch	no	0,00
143	18	1996	04/06/1996	Bickersgracht, Netherlands, PDCR	General cargo	3488	58,648	17,805	leakage	oil	0,05
144	19	1996	18/06/1996	Gote, Sweden, SDNR	Other cargo	Br. 160	57,683	11,867	leakage	oil	0,05
145	208	1996	03/07/1996	Kol-115, Poland	Fishing vessel		54,300	15,300	hull leak, sunk	oil	4,00
146	126	1996	14/08/1996	Finno, FIN	Other	Br. 77	60,143	21,325	propeller failure	unknown	0,00
147	127	1996	27/08/1996	Hesperia, FIN	Other	13511	59,802	23,217	grounding	unknown	0,00
148	60	1996	01/09/1996	Volgo-Balt 209, UAAD	Dry cargo	2473	58,067	11,817	fire	no	0,00
149	152	1996	13/09/1996	Birthe	Fishing vessel		55,133	15,200	grounding	unknown	0,00
150	128	1996	30/09/1996	Fjordvagen, FIN	Other	2566	60,123	20,562	grounding	unknown	0,00
151	209	1996	23/10/1996	Komunist, Odessa, Russia	Other		55,783	17,552	oil spill	oil	0,01
152	247	1996	22/11/1996	Anna	Other		54,500	12,000	grounding	unknown	0,00

Nr	Id_Nr	Year	Date	Ship	Type	Tonn_dwt	Lat_N	Long_E	Type_of_accident	Type_of_pollution	Pollution_cubm
153	20	1996	01/12/1996	Tina, Netherlands, PHYX	Container carrier	4185	57,642	11,617	grounding	no	0,00
154	153	1996	05/12/1996	Peras, Russia, LYED	Fishing vessel		54,983	15,133	grounding	unknown	0,00
155	129	1996	09/12/1996	Ro-Ro Finnifellow, FIN	Other	5300	60,785	21,228	grounding	unknown	0,00
156	210	1996	19/12/1996	Faste Jarle, Stavanger	Other		55,275	17,708	oil spill	oil	0,90
157	130	1996	25/12/1996	Olga, SU	Other		60,323	26,383	grounding	unknown	0,00
158	78	1996	12/1996	Blumenau Reefer, Cyprus	Other	5800	59,933	29,767	fire	oil	2,50
159	264	1996	1996		Other	>150 GRT	54,758	13,530	collision	no	0,00
160	265	1996	1996		Other	>150 GRT	54,522	12,362	collision	no	0,00
161	266	1996	1996		Other	>150 GRT	54,318	12,115	collision	no	0,00
162	211	1997	03/01/1997	Wia-20, Wladyslawo, Poland	Fishing vessel		54,750	18,583	oil spil	oil	0,01
163	154	1997	04/01/1997	Canalp, Turkiy, TCJS	Bulker	34626	54,475	12,175	grounding	unknown	0,00
164	155	1997	05/02/1997	Rostok Link	Ferry		54,570	11,933	grounding	unknown	0,00
165	21	1997	13/02/1997	Bitama, Sweden, SKDR	Single hull tanker	2750	59,317	18,050	techn. failure	no	0,00
166	156	1997	23/02/1997	North Pacific, Singapore, 9VYR	Double hull tanker	107592	54,467	12,167	grounding	unknown	0,00
167	181	1997	25/05/1997	Pram	Other		64,667	24,417	capsized	unknown	0,00
168	212	1997	05/06/1997	Zambrow, Poland	General cargo	6,931	55,557	12,173	grounding	no	0,00
169	157	1997	28/07/1997	Hanne Mette, Denmark, OXLR2	Coaster	980	55,024	12,466	grounding	unknown	0,00
170	158	1997	15/08/1997	Alkor, Germany, DBND	Training vessel	279	54,592	11,553	grounding	unknown	0,00
171	213	1997	17/09/1997	Sleza, Poland	Single hull tanker	695	55,400	14,400	grounding	no	0,00
172	23	1997	10/10/1997	Akerman, Liberia, ELS18	Bulk carrier	52670	57,200	11,567	leakage	oil	0,80
173	214	1997	25/10/1997	Ust-94, Poland	Other	103	54,450	16,400	grounding	no	0,00
174	170	1997	01/11/1997	Debora, Sweden, SKRG	Other	2337	55,667	21,000	grounding	no	0,00
175	252	1997	01/12/1997	MT Crystal Ametyst	Double hull tanker		60,510	27,083	grounding	no	0,00
176	159	1997	23/12/1997	Northern Loftnes, Malta, 9HSC4	Dry cargo	3712	55,325	12,457	grounding	unknown	0,00
177	248	1997	24/12/1997	Slesvig-Holsten	Ferry		54,670	11,240	grounding		0,00
178	47	1997	1997	Antra, Latvia, UL2064	Fishing vessel	3020	57,017	16,950	collision	no	0,00
179	25	1998	03/01/1998	Thjelvar, Sweden, SIKA	Pass.ro-ro	2480	57,637	18,288	techn. failure	oil	0,50
180	132	1998	05/01/1998	Megamotti	Other		60,358	22,078	grounding	unknown	0,00
181	26	1998	08/01/1998	Anne Sif, Denmark, QZAQH	Single hull tanker	9214	60,417	19,000	oil spill	oil	0,40
182	160	1998	17/01/1998	Thamesis, Germany, DLSK	Dry cargo	4168	55,267	14,733	grounding	unknown	0,00
183	61	1998	22/01/1998	Volgo-Balt 122, Russia, UCGU	Dry cargo		55,500	9,733	run into touch	no	0,00
184	215	1998	26/01/1998	Ericjusawave, Limassol, Cyprus			54,020	14,385	oil spill	oil	0,30
185	79	1998	01/1998	Kotlin, Russia	Other	350	59,992	29,733	sunk	oil	37,50
186	161	1998	14/02/1998	Betty, Netherlands, PDAL	Bulker	3157	54,517	11,833	grounding	unknown	0,00
187	216	1998	13/03/1998	Alexandras, Valetta, Malta			55,183	18,958	oil spill	oil	0,00
188	42	1998	31/03/1998	Kaunas, Lithuania with Kol_181, Poland	Other	7664 & 72	54,950	15,500	collision	unknown	0,00
189	62	1998	31/03/1998	Al Faran 1, Siryia, YKMO	Dry cargo		54,667	20,333	run into touch	no	0,00
190	63	1998	04/04/1998	Vytegra, Russia, UYFV	Dry cargo		55,700	12,600	fire	no	0,00

Nr	Id_Nr	Year	Date	Ship	Type	Tonn_dwt	Lat_N	Long_E	Type_of_accident	Type_of_pollution	Pollution_cubm
191	187	1998	07/04/1998	Gerda	Other	5210	60,517	27,083	grounding	unknown	0,00
192	218	1998	07/04/1998	Kol-32 with Kol-136, Poland	Fishing vessels	98/unkn.	54,457	15,436	colision	no	0,00
193	64	1998	19/04/1998	Sovetskiy Voin	Dry cargo		60,683	17,167	run into touch	no	0,00
194	80	1998	04/1998	Gamma, Russia	Other	3480	60,200	27,767	ice damage	no	0,00
195	27	1998	03/05/1998	United Tony	Single hull tanker	4165	58,667	20,000	oil spill	oil	0,05
196	219	1998	10/05/1998	Dar-27, Poland	Fishing vessel		54,500	16,500	hull leak, sunk	oil	0,00
197	163	1998	20/05/1998	Wanda, Denmark, OUPA	Fishing vessel		55,247	15,658	wrecked	unknown	0,00
198	28	1998	26/05/1998	Magnus Spirit, Cyprus, P3SF3	Bulk carrier	54492	56,000	16,667	oil spill	oil	1,50
199	29	1998	23/06/1998	Orn, Sweden, SFB-6176	Tugboat	Br. 10	63,217	18,950	capsized	oil	0,28
200	81	1998	06/1998	Pritzwalk, Liberia	Other	12000	59,933	30,250	sunk	no	0,00
201	30	1998	08/07/1998	Victoire, Liberia, ELTK7	Single hull tanker	13453	60,298	19,025	oil spill	oil	0,99
202	133	1998	19/07/1998	Selene Prahm, GER	Other	2400	60,427	19,242	grounding	unknown	0,00
203	82	1998	07/1998	Tosna, Russia	Other	2300	59,933	30,250	sunk	oil	25,00
204	134	1998	04/08/1998	Pamela, FIN	Other		60,522	21,130	grounding	unknown	0,00
205	220	1998	04/08/1998	Inz. Stanislaw Legowski, Poland, SPG	Dredger	2015,52 BR	54,207	15,547	pressure hose	oil	1,00
206	221	1998	05/08/1998	Oresund	Double hull tanker		54,822	18,880	oil spill	oil	2,00
207	31	1998	14/08/1998	Maria Gorthon, Sweden, SLCH	Ro-ro	9995	57,700	11,950	techn. failure	no	0,00
208	164	1998	11/10/1998	Kronprins Frederik, Denmark, OYEM	Ferry	4277	54,553	11,934	grounding	unknown	0,00
209	135	1998	13/10/1998	Mt Natura	Double hull tanker		60,135	25,650	grounding	unknown	0,00
210	222	1998	17/10/1998	Dar-20, Poland	Fishing vessel	39,23 BR	54,500	16,500	water into mach. sp.	oil	17,00
211	223	1998	11/11/1998	Dar-23, Poland	Other	13	54,783	17,650	grounding	no	0,00
212	165	1998	11/12/1998	Doris T. Antigua&Barbados, V2HR	Dry cargo	2150	54,690	11,290	grounding	unknown	0,00
213	182	1998	17/12/1998	Passaden	Other		59,000	23,583	bottom touch	unknown	0,00
214	65	1998	22/12/1998	Volgo-Balt 187, UAPT	Dry cargo	2467	53,833	14,167	run into touch	no	0,00
215	224	1998	22/12/1998	Kol-36 with Kol-112, Poland	Fishing vessels	42	54,250	15,167	colision	no	0,00
216	188	1998	31/12/1998	Maria VG	Other		61,083	21,333	bottom touch	unknown	0,00
217	225	1999	11/02/1999	Dwi-3, Poland	Fishing vessel	7	54,233	15,600	sunk	oil	0,20
218	226	1999	17/02/1999	Dar-42, Poland	Fishing vessel		54,500	16,500	partly sunk	oil	0,07
219	227	1999	07/03/1999	Ust-206, Poland	Other	72	55,283	16,750	colision	no	0,00
220	166	1999	08/04/1999	Urai, Cyprus, P3DC8	Double hull tanker	28840	54,465	12,170	grounding	unknown	0,00
221	32	1999	14/04/1999	Timber Sun, Belize, V3QR8	General cargo	2290	63,833	20,267	oil spill	oil	0,30
222	228	1999	19/04/1999	Swi-54, Poland	Other	13	54,000	14,417	other	unknown	0,00
223	171	1999	26/04/1999	Nemunas, Lithuania, LYOE	Single hull tanker	3369	55,667	21,083		oil	0,60
224	83	1999	04/1999	Eoturns, Great Britain	Double hull tanker	22000	59,817	27,250	grounding	no	0,00
225	84	1999	05/1999	Omsky-1, Russia	Other	3000	59,933	30,250	colision	oil-8,chem -5	10,00
226	33	1999	16/06/1999	Albion, Cyprus, P3VK2	Bulk carrier	27982	56,403	17,902	oil spill	oil	0,15
227	229	1999	18/06/1999	Dar-166, Darlowo, Poland	Fishing vessel		54,968	16,165	oil spill	oil	0,18
228	34	1999	21/06/1999	Tyr, Sweden, SLBR	Pleasure craft	Br. 94	62,817	18,300	ballast. due to list	oil	0,05

Nr	Id_Nr	Year	Date	Ship	Type	Tonn_dwt	Lat_N	Long_E	Type_of_accident	Type_of_pollution	Pollution_cubm
229	85	1 999	06/1999	Volgo-Don 5088, Russia	Other	5000	59,933	30,500	collision	chemicals	12,00
230	230	1 999	25/08/1999	Chy-21, Poland	Fishing vessel	8	54,383	15,900	sunk	oil	0,90
231	35	1 999	26/08/1999	Cinderella II, Sweden, SHOR	Pass. ship	Br. 324	59,317	18,050	techn. failure	oil	0,15
232	36	1 999	26/08/1999	Zanis Griva, Liberia, ELR16	Single hull tanker		58,600	16,200	techn. failure	oil	6,25
233	167	1 999	18/09/1999	Sea Joy, Malta, 9HJW5	Double hull tanker	47172	54,469	12,180	grounding	unknown	0,00
234	66	1 999	29/09/1999	Igarka, UDYD	Dry cargo	2426	54,667	20,333	run into touch	no	0,00
235	86	1 999	09/1999	Nefterudovoz-7, Russia	Single hull tanker	2700	59,867	30,500	grounding	oil	75,00
236	87	1 999	09/1999	Priboy, Russia	Other	48	59,933	30,250	grounding	no	0,00
237	231	1 999	05/10/1999	Dar-55, Poland	Fishing vessel		54,500	16,500	partly sun	oil	0,50
238	88	1 999	10/1999	Flagman, Russia	Other	900	59,933	30,250	grounding	no	0,00
239	172	1 999	05/11/1999	Bajorai, Lithuania, LYBO	Other	116	55,083	15,167	grounding	no	0,00
240	183	1 999	16/11/1999	Tover Julie	Other		65,667	24,667	grounding	unknown	0,00
241	169	1 999	21/11/1999	Highland Faith, Panama, 3FG9	Double hull tanker	77673	54,465	12,182	grounding	unknown	0,00
242	184	1 999	25/11/1999	MS Inov Roglav, PO	Other		60,167	25,000	grounding	unknown	0,00
243	89	1 999	11/1999	Voshod, Rusia	Other	234	59,800	26,900	grounding	no	0,00
244	189	1 999	03/12/1999	Jessica	Other		60,167	25,000	bottom touch	unknown	0,00
245	173	1 999	04/12/1999	Seines, Norway, IXKQ	Other	689	55,830	21,000	grounding	no	0,00
246	174	1 999	06/12/1999	Almanama, Bahrain	Double hull tanker	9700	56,033	20,950	broken hose	oil	4,00
247	253	1 999	08/12/1999	Spanvik	Other	650	60,187	25,769	grounding	unknown	0,00
248	232	1 999	16/12/1999	Dzi-110, Poland, SQPN	Fishing vessel	106,7 BR	54,500	16,500	grounding	no	0,00
249	48	1 999	1999	Daugavpils, Latvia, YLDQ	Dry cargo	3020	57,800	44,683	collision	no	0,00
250	49	1 999	1999	Fredis, Latvia, YL2351	Fishing vessel	11	57,517	22,933	total loss	no	0,00
251	50	1 999	1999	Sniegs, Latvia, YL2029	Fishing vessel	47	56,514	20,941	total loss	no	0,00

*Ministry of Environmental Protection and  
Regional Development of the Republic of Latvia  
Marine Environment Board*

*2 Voleru St., LV 1007 Riga, Latvia*

*Phone: +371 2 469 664*

*Fax: +371 2 465 888*

*e-mail: [juras-parvalde@vdc.lv](mailto:juras-parvalde@vdc.lv)*

*<http://www.jvp.vdc.lv>*