



IMPACT OF THE GLOBAL ECONOMIC CRISIS ON THE NORTH AMERICAN FREIGHT FLOWS

Presented

By

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To the Eighth

**TRANSPORTATION SITUATION & OUTLOOK
CONFERENCE**

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OBJECTIVES

This presentation assess the impact of the Global economic crisis on the current development of the North American marine freight trade flows.

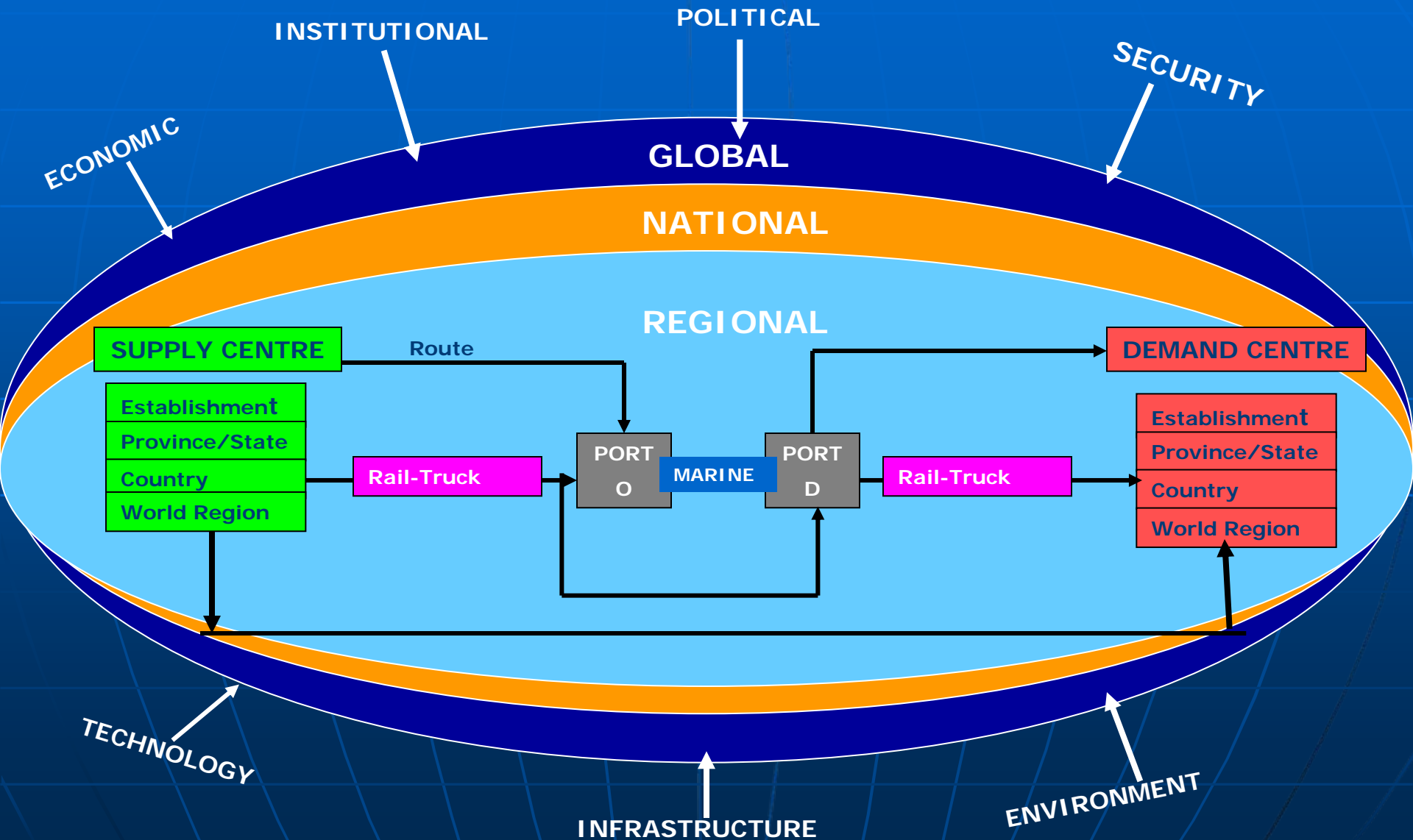
THE FINANCIAL & ECONOMIC CRISIS

- The stresses in the financial markets of the U.S. that first emerged in the summer of 2007 transformed themselves into a full-blown global financial crisis in the fall of 2008
- Massive liquidity injections by central banks in several countries and a variety of stopgap measures by governments proved inadequate to contain the crisis at first
- The initially hesitant policy response has become increasingly robust. the U.S., the EU, China and several other countries introduced trillions of equivalent dollars as rescue package and incentives and has taken equity positions in several major national and regional banks
- Presently the developed economies are experiencing their strongest declines since the second war, reflecting an intensification of the destructive interplay between the financial crisis and real activity, notwithstanding continued policy efforts
- The recovery will depend on the success of the coordinated efforts to stabilize financial conditions as well as sustained strong policy support to strengthen demand.

APPROACH USED TO ASSESS THE IMPACT OF THE GLOBAL ECONOMIC CRISIS

- The marine freight trade flows are visualized as part of the complex global modal transportation and logistics system. The ports, routes and modes, forming this system compete for commodity flowing between several domestic and international supply and demand centres.
- The volume and direction of the freight flowing through this transportation network is influenced by a multitude of interrelated economic, financial, political, technological and institutional factors, at domestic and global levels.
- By identifying the supply and demand centres and then determining the impact of these factors on the transportation freight flows, the process of assessing future seaborne trade flows is greatly enhanced and its credibility increased
- This approach requires the examination and interpretation of a large amount of information.

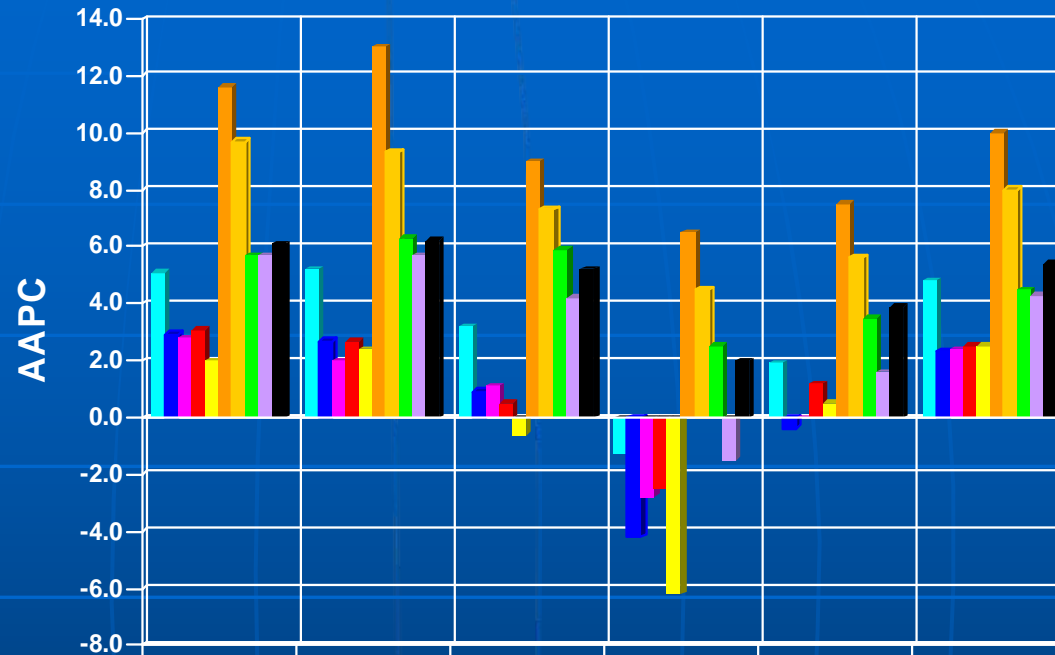
MARITIME FREIGHT FLOWS FORECAST CONCEPT



WORLD ECONOMIC PROJECTIONS

The latest IMF World Economic Outlook updates project the decline of the World economy from 3.2% in 2008 to -1.3% in 2009 before recovering to 1.9% in 2010.

This decline is driven by a sharp drop in demand, as the global financial crisis imposes a rare simultaneous recession in high-income countries and a sharp slowdown across the developing world



	2006	2007	2008	2009	2010	2014
World GDP	5.1	5.2	3.2	-1.3	1.9	4.8
Euro area	2.9	2.7	0.9	-4.2	-0.4	2.3
USA	2.8	2.0	1.1	-2.8	0.0	2.4
Canada	3.1	2.7	0.5	-2.5	1.2	2.5
Japan	2.0	2.4	-0.6	-6.2	0.5	2.5
China	11.6	13.0	9.0	6.5	7.5	10.0
India	9.7	9.3	7.3	4.5	5.6	8.0
Middle East	5.7	6.3	5.9	2.5	3.5	4.5
Latin America	5.7	5.7	4.2	-1.5	1.6	4.3
Africa	6.1	6.2	5.2	2.0	3.9	5.4

WORLD TRADE PROJECTIONS

World trade volumes are expected to decline in 2009 for the first time since 1982 from 3.2% in 2008 to -11.5% in 2009 before recovering to 0.7% in 2010

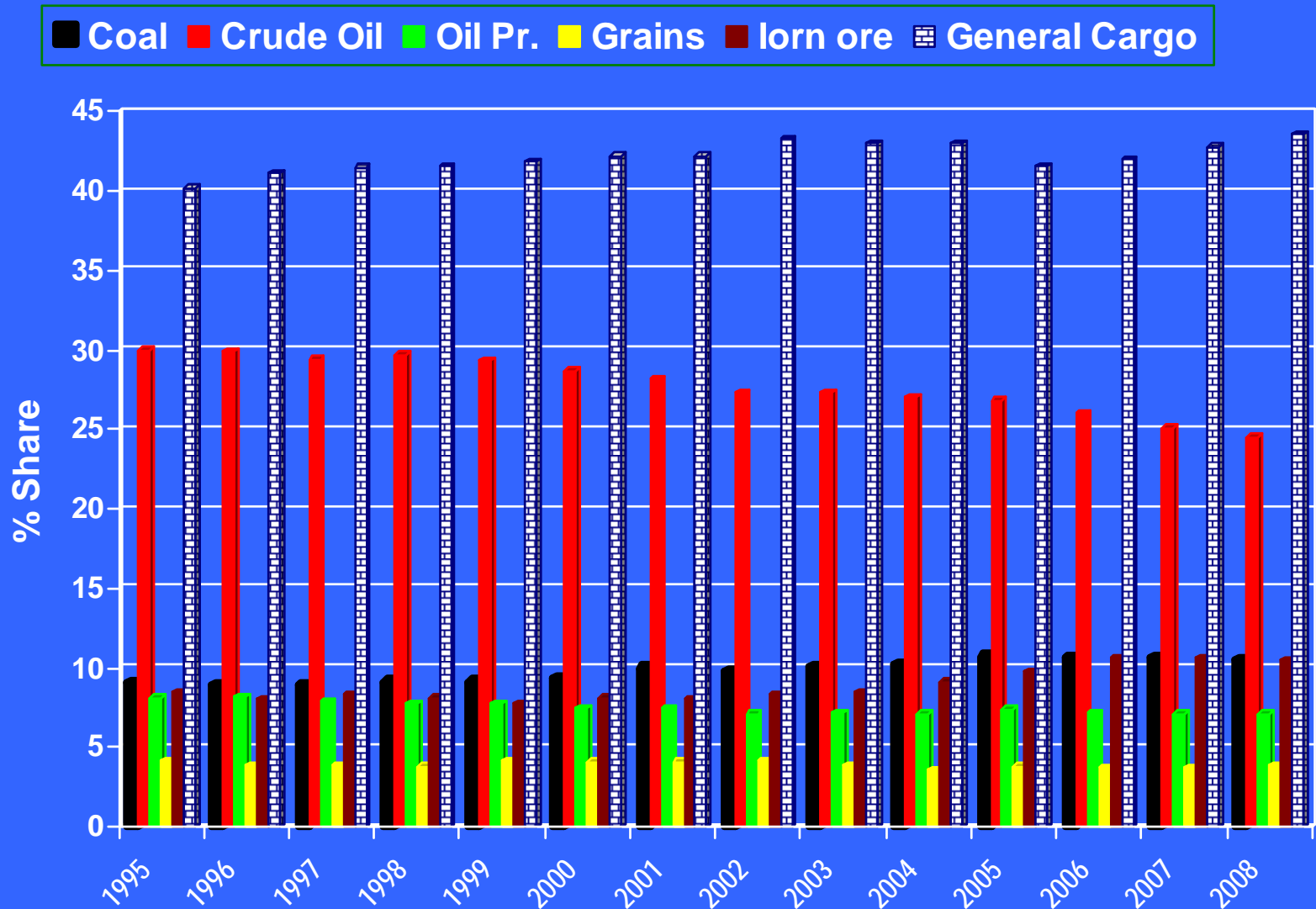


Source: Based on the International Monetary Fund IMF projections, April, 2009

SIGNS OF THE IMPACT OF THE ECONOMIC CRISIS

			2008	2007	% Growth
Port of Vancouver	Canada	Total Cargo Mt – Annual	114.6	127.8	-10%
		Cargo Mt Jan-March. 2009 – Jan.-March 2008	22.9	29.0	-20% %
		Container by MTEU Year to date March, 2009	0.492	0.582	-15.6%
Port of Montreal	Canada	Total Cargo Mt – Annual	25.8	26	-0.8%
		Cargo Mt Jan-March. 2009 – Jan.-March 2008	5.2	6.0	--14.1%
		Container by MTEU Year to date March, 2009	0.299	0.331	-9.7%
Port of Long Beach	USA	Total Cargo Mt – Annual	170	190	-10.6%
		Cargo Mt Jan-March. 2009 – Jan.-March 2009	30.5	38.8	-19.7%
		Container by MTEU Year to date Feb. 2009	1.1	1.6	-29.5%
Port of New York	USA	Total Cargo Mt – Annual	88.9	87.2	1.9%
		Container by MTEU Year to date March, 2009	0.8	1.0	-17.4%
Port of Savannah	USA	Total Cargo Mt –Year to date Feb. 2009	0.36	0.65	-45.4%
		Container by MTEU Year to date March, 2009	0.53	0.66	-19.5
The Suez Canal	Egypt	Total Cargo Mt –Year to date March, 2009	78.3	117.5	-33.4%
The Panama Canal	Panama	Total Cargo Mt –Year to date March, 2009	75.7	78.4	-3.3%
The Seaway	Canada	Total Cargo Mt –Year to date April, 2009	2.6	4.6	43.9%

WORLD SEABOARD TRADE COMPOSITION

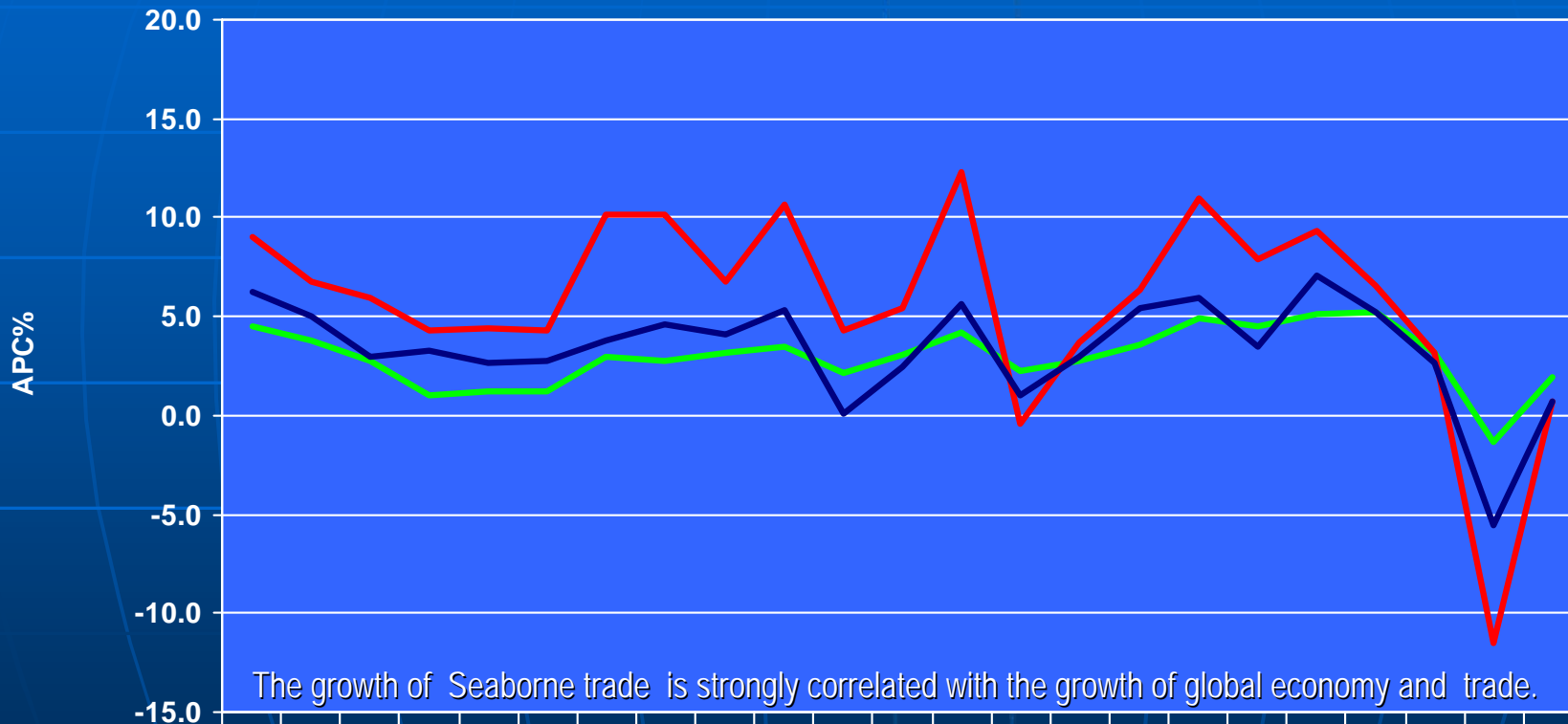


Source: Estimated based on ISL data.

THE ECONOMIC CRISIS & THE WORLD SEABORNE TRADE

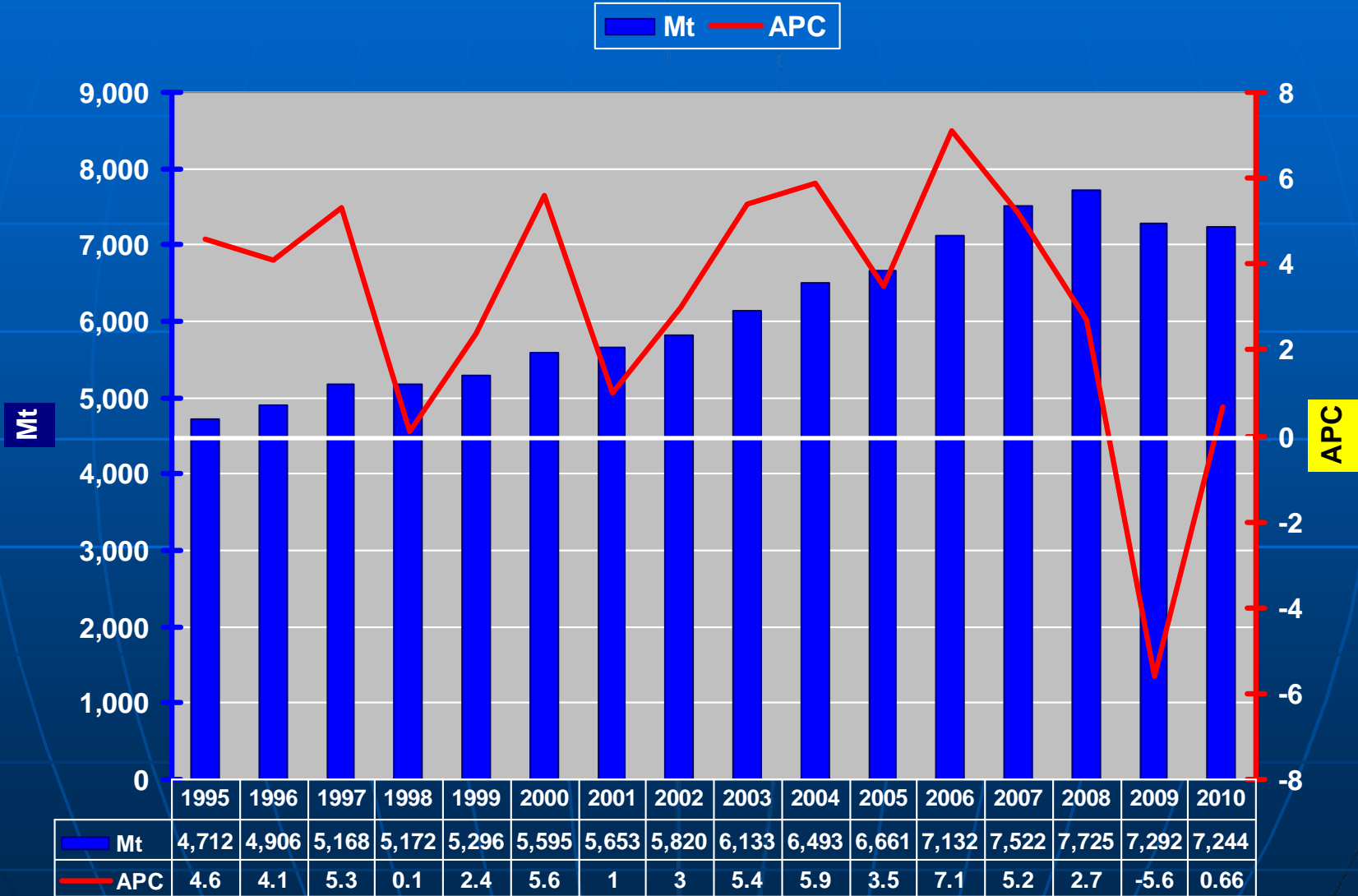
Global trade has been a leading factor in the growth of the world economy, profoundly affecting transportation.

— GDP — Trade — Seaborne



	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
GDP	4.5	3.8	2.8	1.0	1.2	1.2	3.0	2.8	3.2	3.5	2.1	3.1	4.2	2.2	2.8	3.6	4.9	4.5	5.1	5.2	3.2	-1.3	1.9
Trade	9.0	6.8	5.9	4.3	4.4	4.3	10.1	10.1	6.8	10.7	4.3	5.4	12.3	-0.4	3.7	6.3	11.0	7.9	9.3	6.6	3.2	-11.5	0.7
Seaborne	6.2	5.0	3.0	3.3	2.7	2.8	3.8	4.6	4.1	5.3	0.1	2.4	5.6	1.0	3.0	5.4	5.9	3.5	7.1	5.2	2.7	-5.6	0.66

IMPACT OF THE ECONOMIC CRISIS ON THE WORLD SEABORNE TRADE

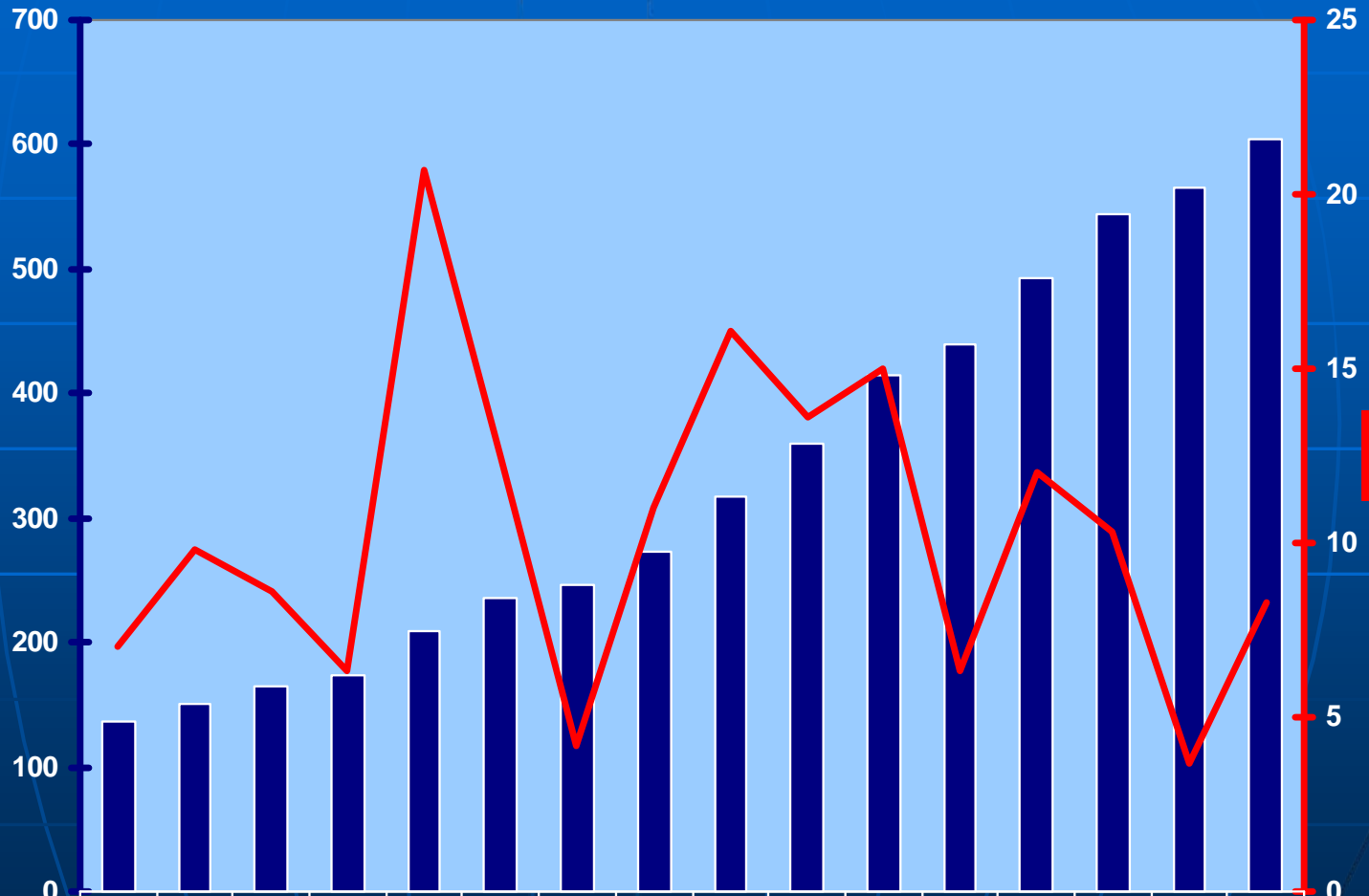


IMPACT OF THE ECONOMIC CRISIS ON THE WORLD CONTAINERS TEU

Container MTEU APC

MTEU

APC



Container MTEU	137	151	164	174	210	236	246	273	317	360	414	440	493	544	565	605
APC	7	9.8	8.6	6.3	20.7	12.4	4.2	11	16.1	13.6	15	6.3	12	10.3	3.7	8.3

PANAMA CANAL PRINCIPAL ROUTES/MARKETS

US East Coast

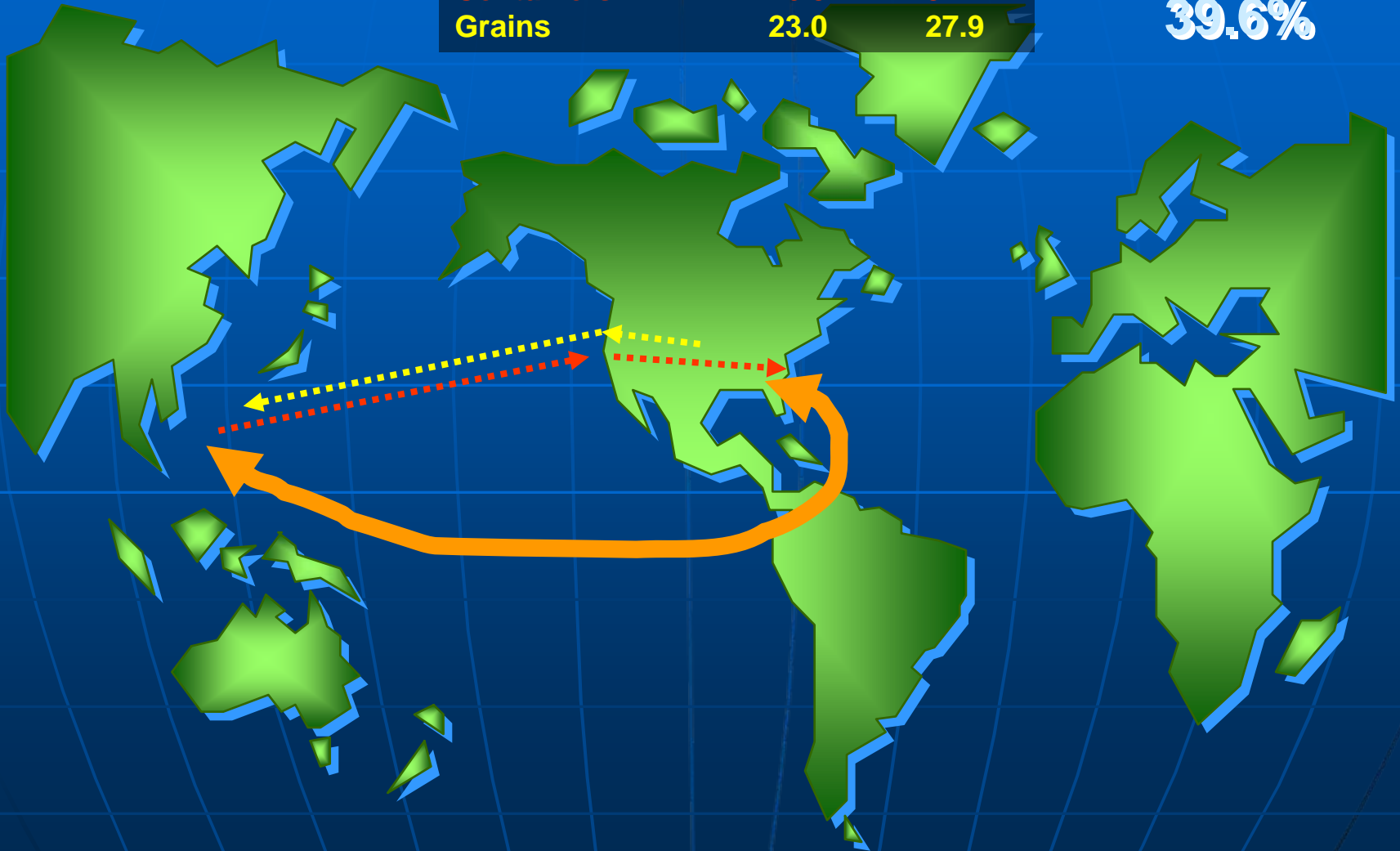


Asia

PRODUCTS	Mt	%
Containers	26.5	32.2
Grains	23.0	27.9

82.6 Mt

39.6%



PANAMA CANAL PRINCIPAL ROUTES/MARKETS

West Coast South America



US East Coast

20.5

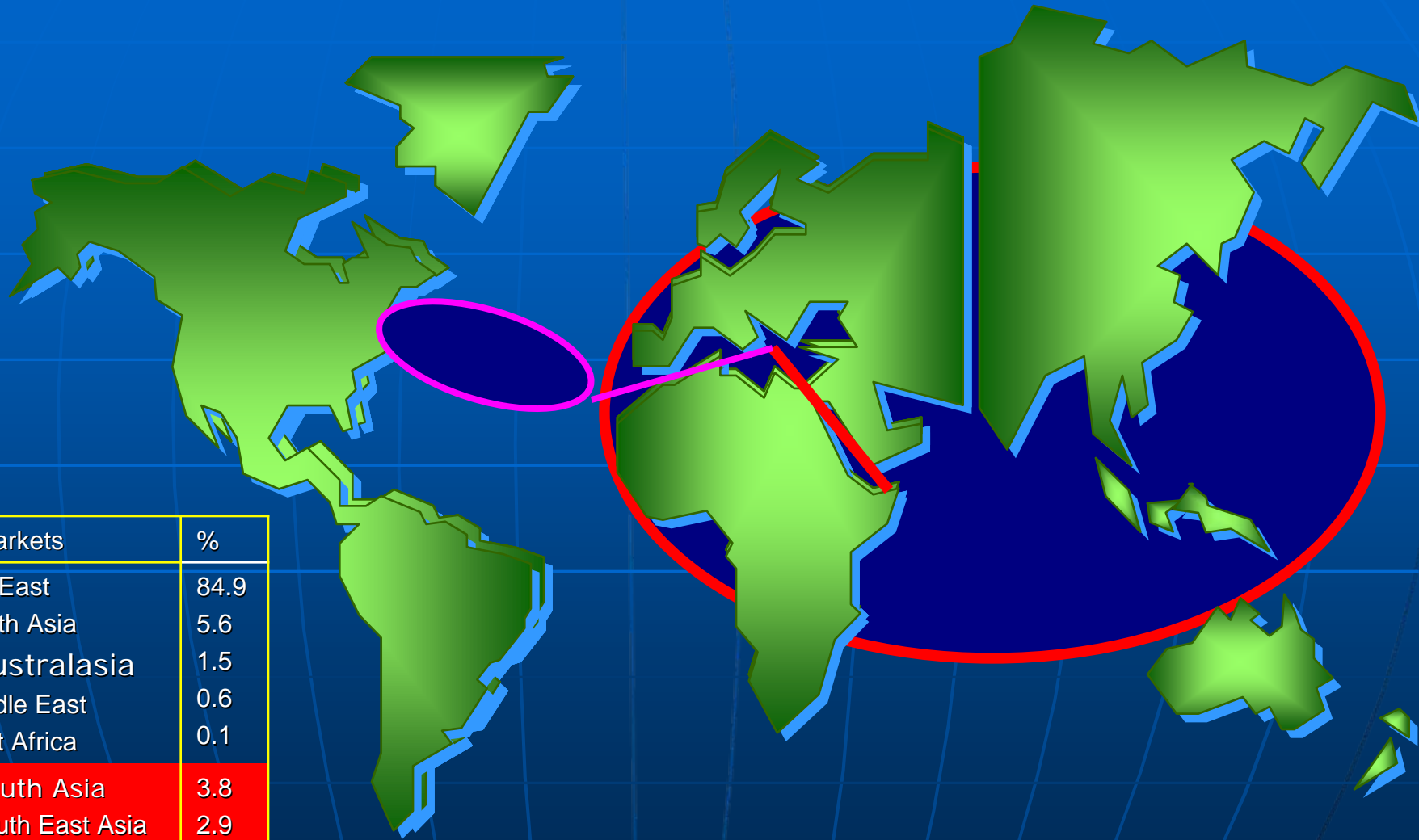
Mt

9.8%

PRODUCTS	Mt	%
Petroleum and prod	6.1	29.9
Dry Bulks	3.8	18.6



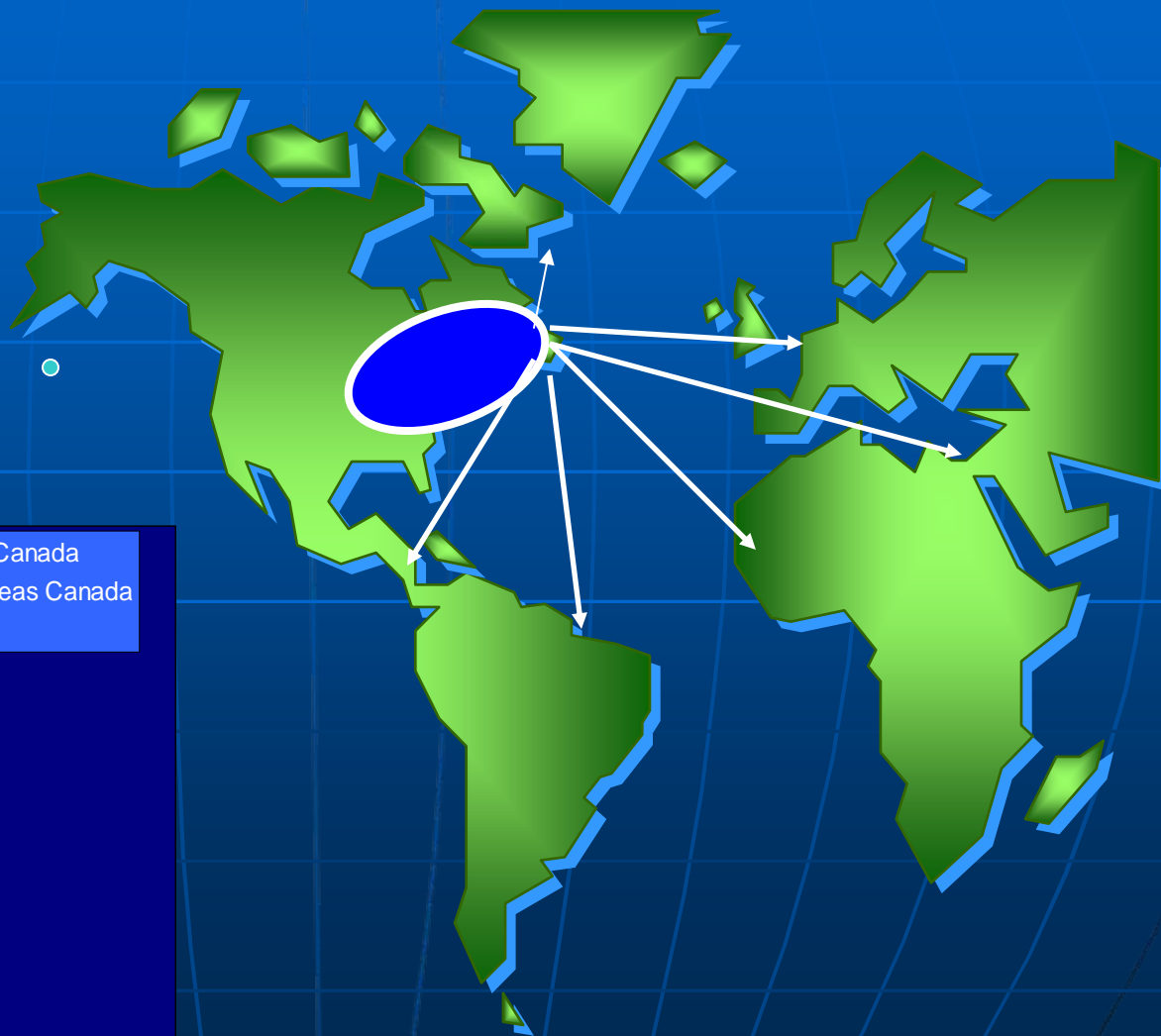
SUEZ CANAL PRINCIPAL ROUTES/MARKETS



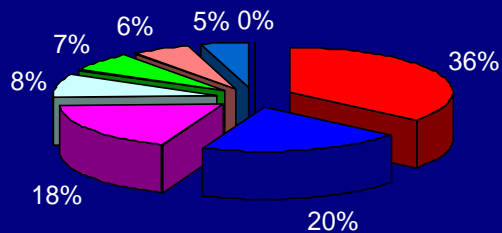
Routes/Markets	%
NWE-Far East	84.9
NWE-South Asia	5.6
NWE-Australasia	1.5
NWE-Middle East	0.6
NWE-East Africa	0.1
ECNA-South Asia	3.8
ECNA-South East Asia	2.9
ECNA-Middle East	0.1
ECSA-Middle East	0.1

Source: Based on the Suez Canal Authority data

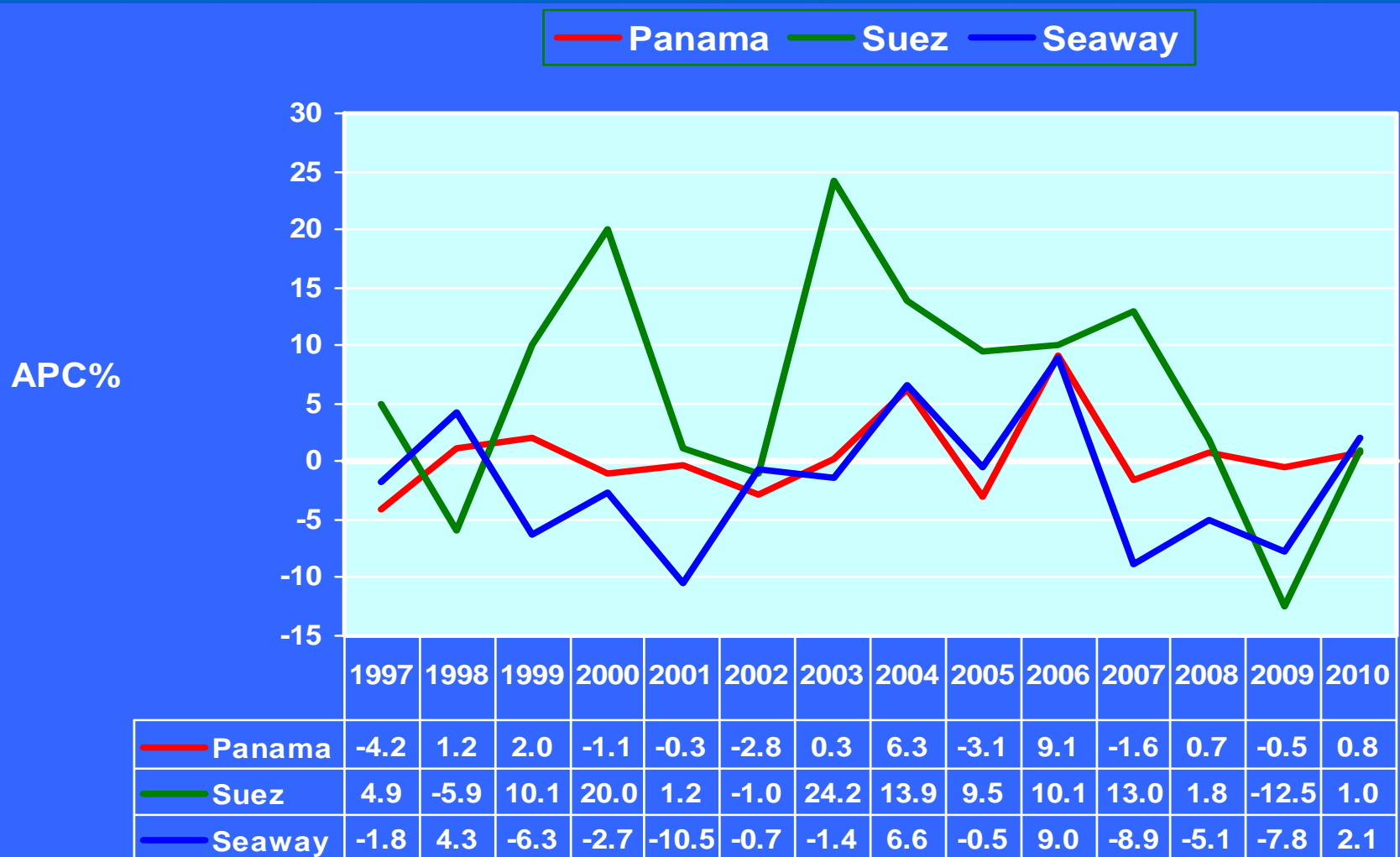
THE LAWRENCE SEAWAY PRINCIPAL ROUTES/MARKETS



- Canada Canada
- Canada USA
- USA Canada
- USA Overseas
- Overseas USA
- Overseas Canada
- Canada Overseas
- USA USA



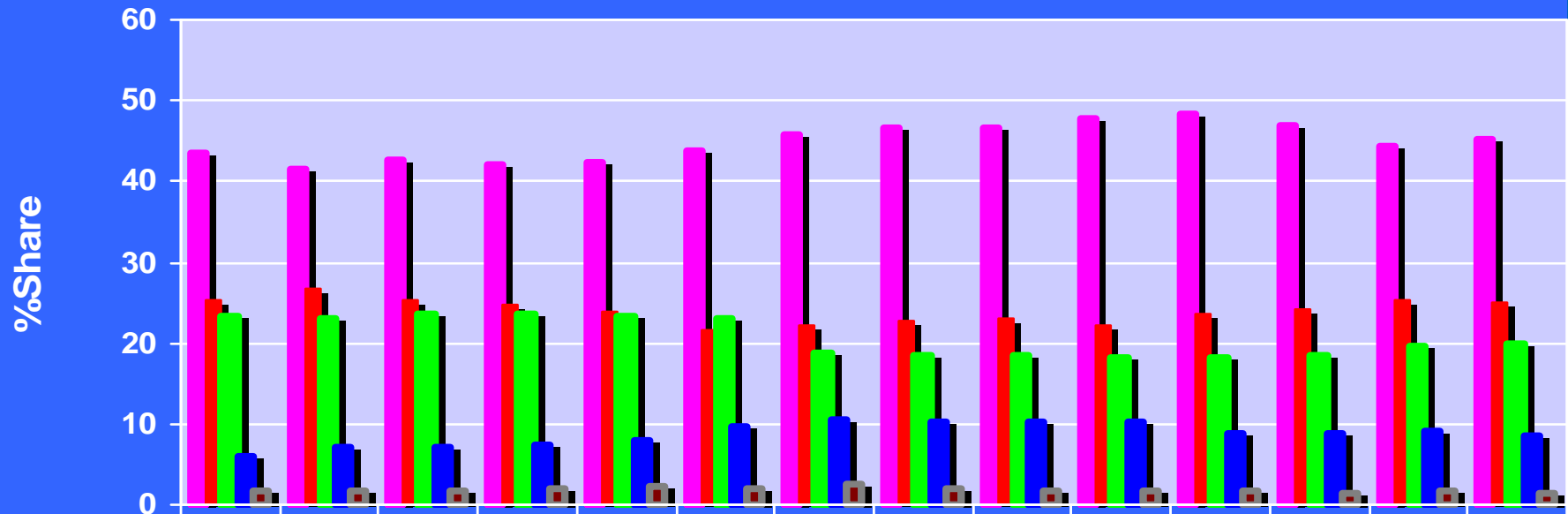
IMPACT OF THE ECONOMIC CRISIS ON THE MAJOR WORLD CANALS, 1997-2010



Source: Based on data obtained from the Suez Canal Authority, the St. Lawrence Seaway Management Corporation and the Panama Canal Authority.

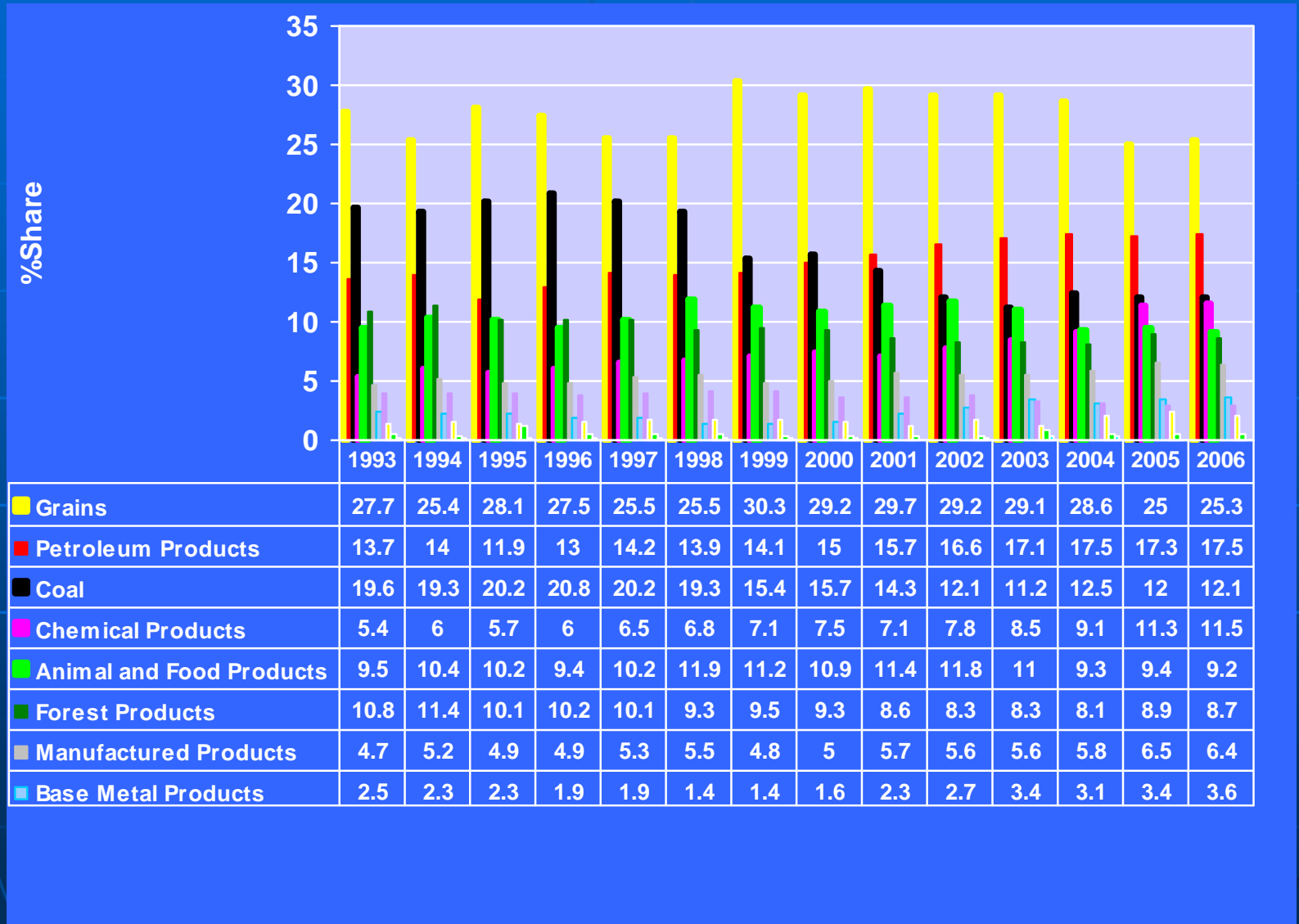
U.S MARINE FREIGHT EXPORTS BY SEABOARD OUTLET

■ US Gulf
 ■ Pacific
 ■ Atlantic
 ■ Great Lakes
 ■ Arctic

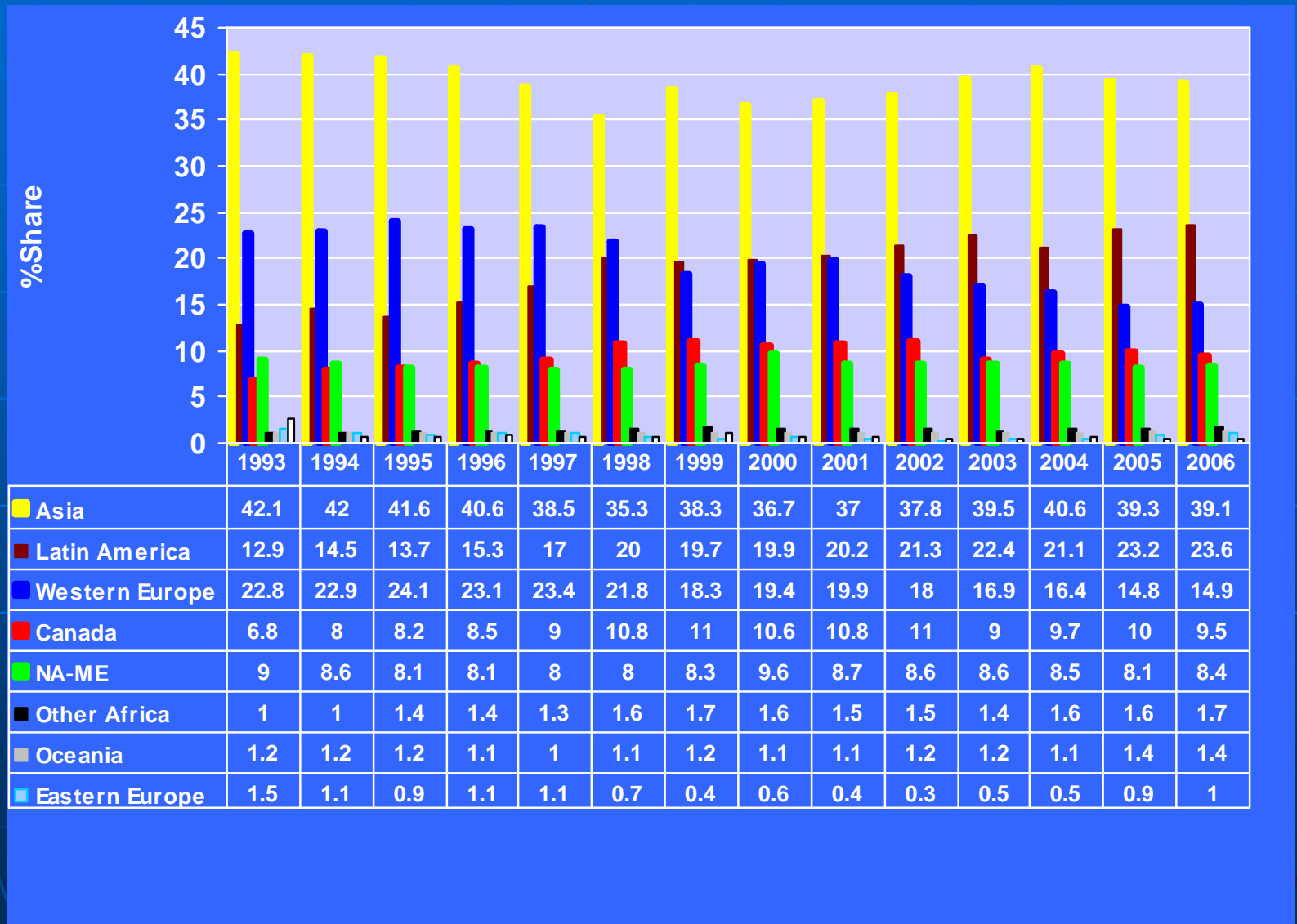


	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
US Gulf	43.6	41.6	42.6	42.2	42.3	43.9	45.7	46.7	46.6	47.7	48.2	46.8	44.4	45.1
Pacific	25.3	26.7	25.2	24.7	23.9	21.7	22.3	22.7	23	22.3	23.5	24.3	25.2	25
Atlantic	23.4	23	23.7	23.7	23.3	22.9	18.9	18.5	18.5	18.3	18.1	18.5	19.5	19.9
Great Lakes	5.9	7	7	7.3	8.1	9.6	10.5	10.2	10.2	10.1	8.7	8.8	9.2	8.5
Arctic	1.8	1.8	1.6	2.1	2.4	2	2.6	1.9	1.7	1.6	1.6	1.5	1.7	1.5

U.S MARINE FREIGHT EXPORTS BY COMMODITY GROUP

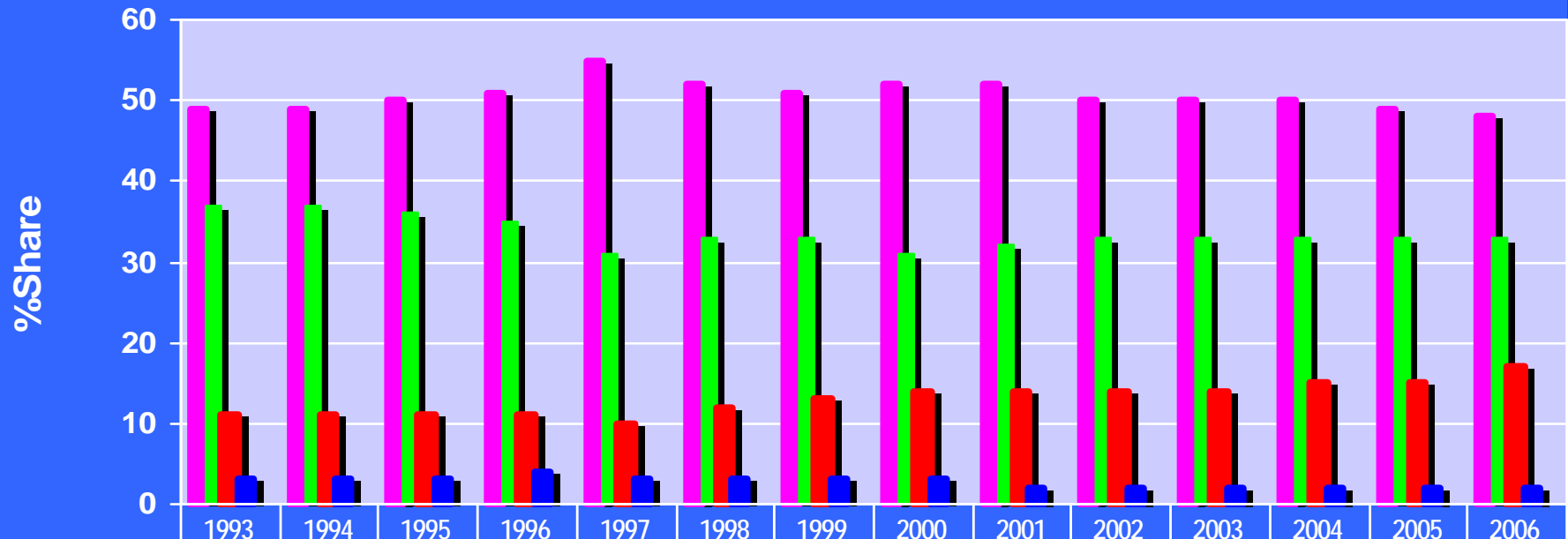


U.S MARINE FREIGHT EXPORTS BY WORLD MARKET



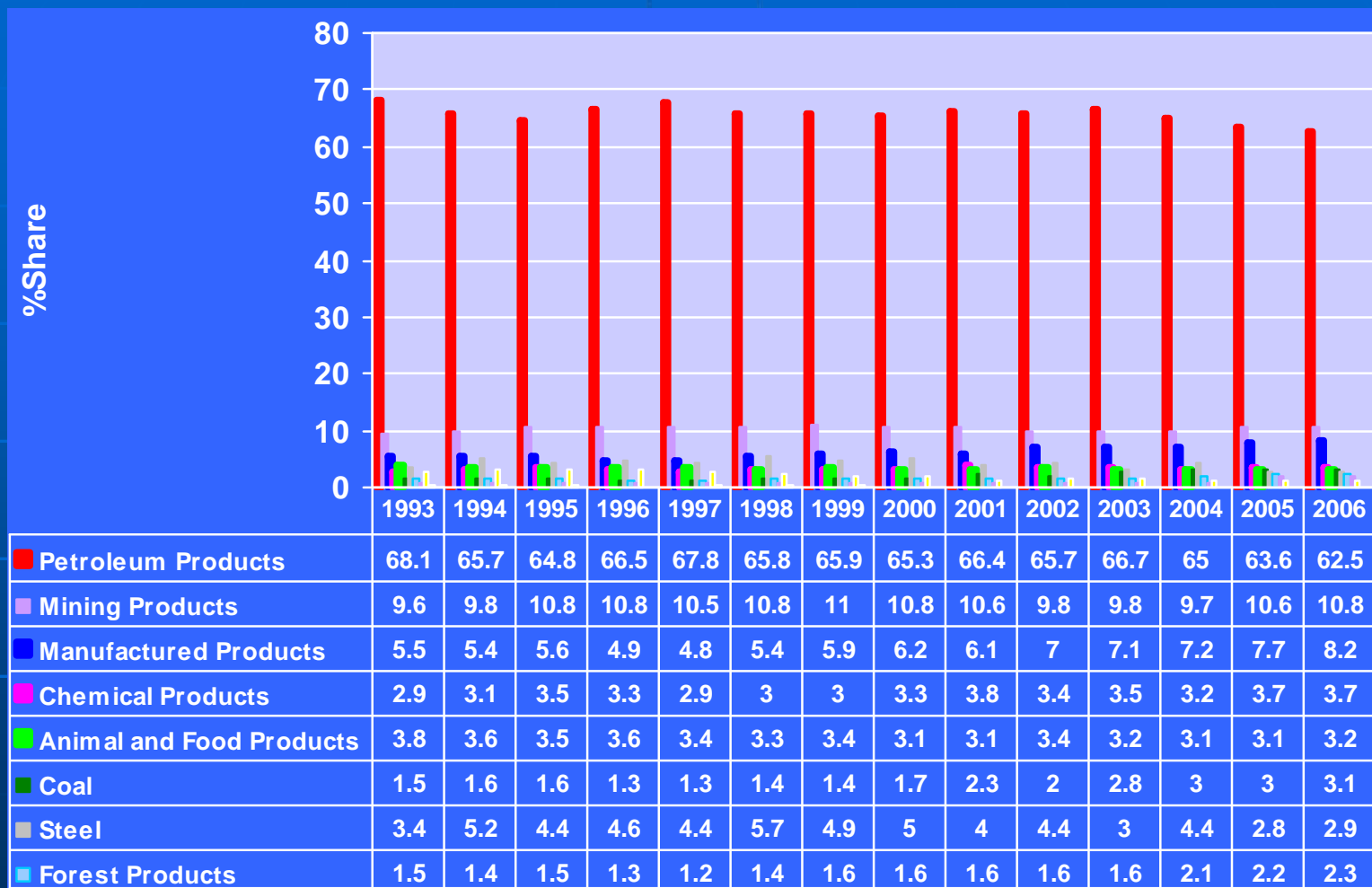
U.S MARINE FREIGHT IMPORTS BY SEABOARD OUTLET

■ US Gulf
 ■ Atlantic
 ■ Pacific
 ■ Great Lakes
 ■ Arctic

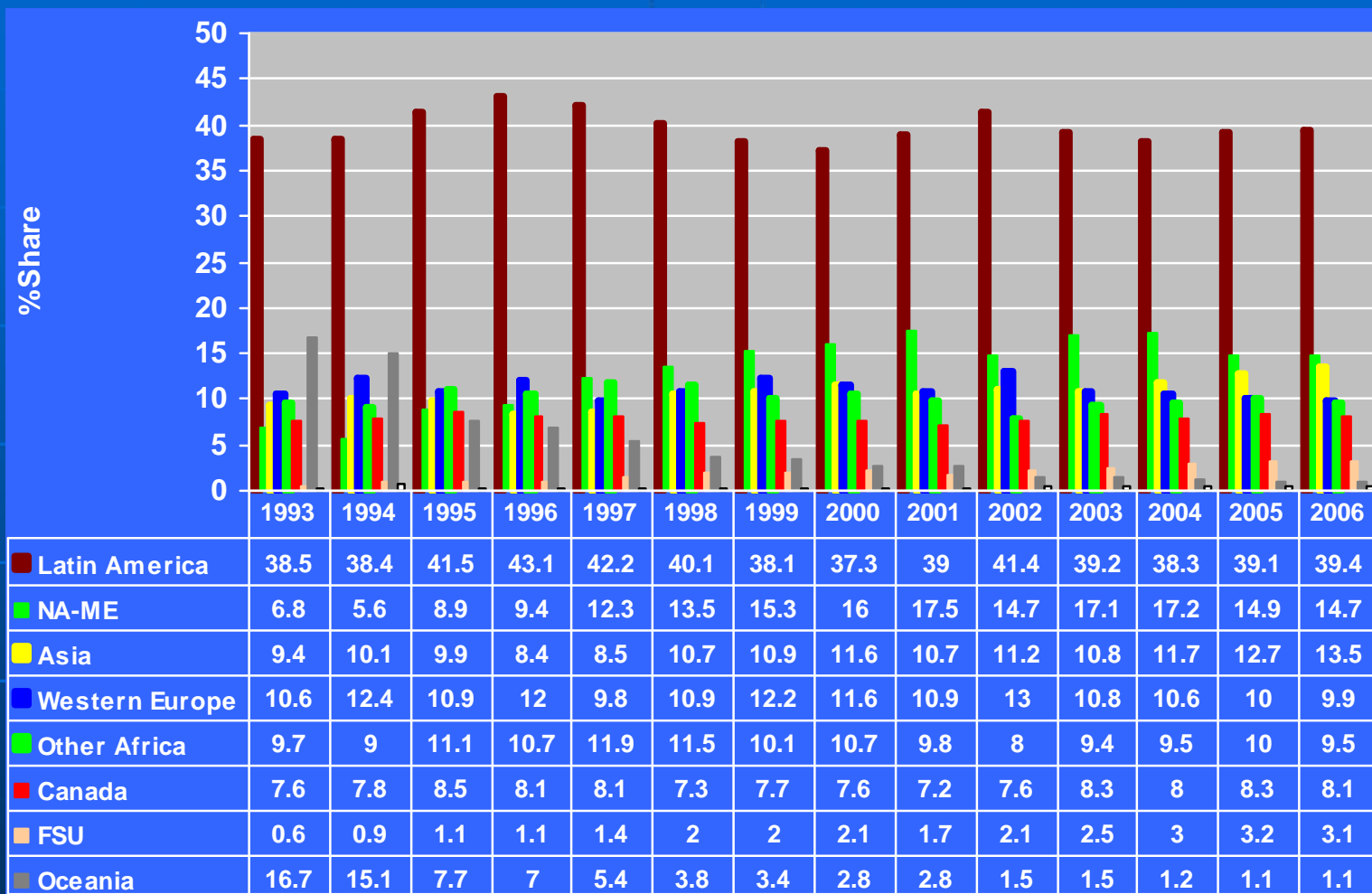


	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
US Gulf	49	49	50	51	55	52	51	52	52	50	50	50	49	48
Atlantic	37	37	36	35	31	33	33	31	32	33	33	33	33	33
Pacific	11	11	11	11	10	12	13	14	14	14	14	15	15	17
Great Lakes	3	3	3	4	3	3	3	3	2	2	2	2	2	2
Arctic	0	0	0	0	0	0	0	0	0	0	0	0	0	0

U.S MARINE FREIGHT IMPORTS BY COMMODITY GROUP

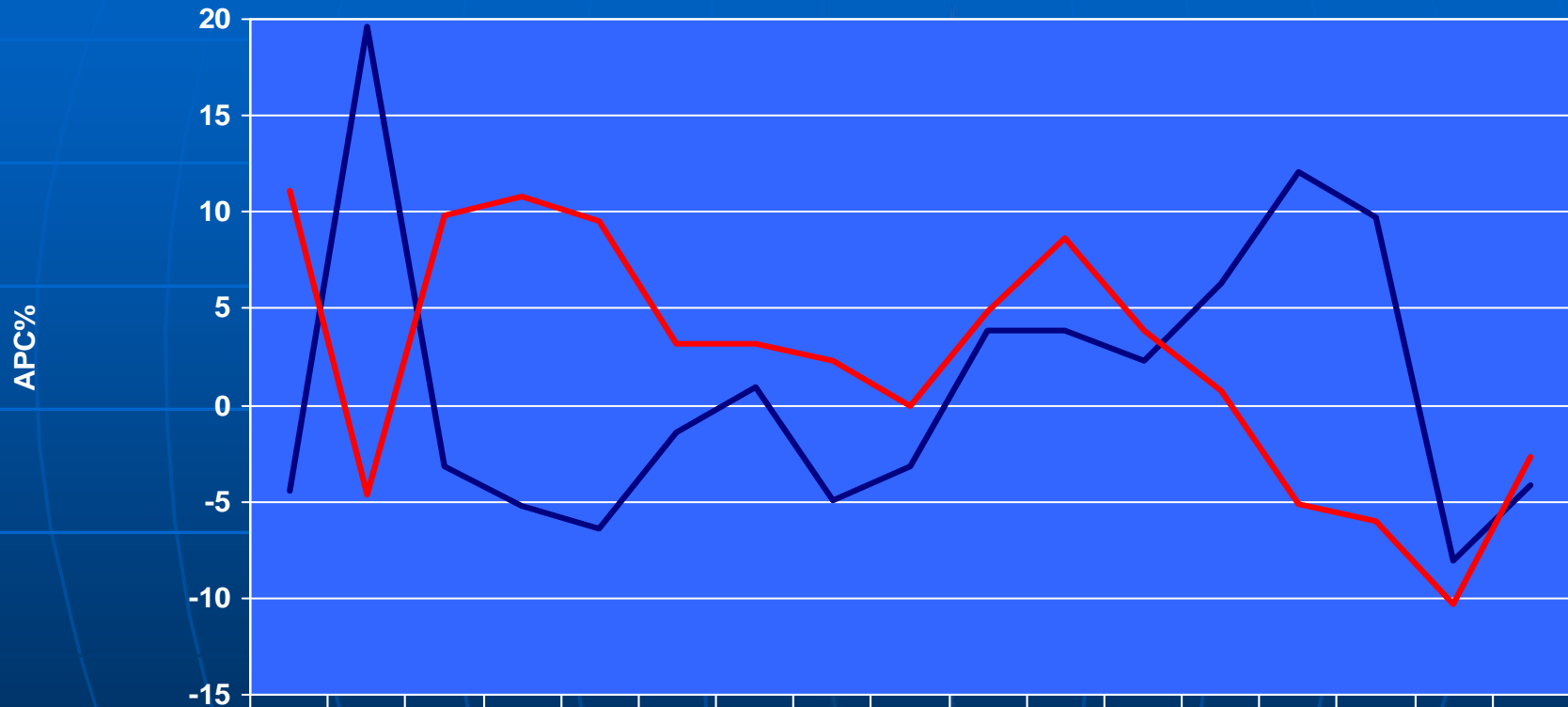


U.S MARINE FREIGHT IMPORTS BY WORLD MARKET



IMPACT OF THE ECONOMIC CRISIS ON THE U.S. MARINE FREIGHT TRADE, 1994-2010

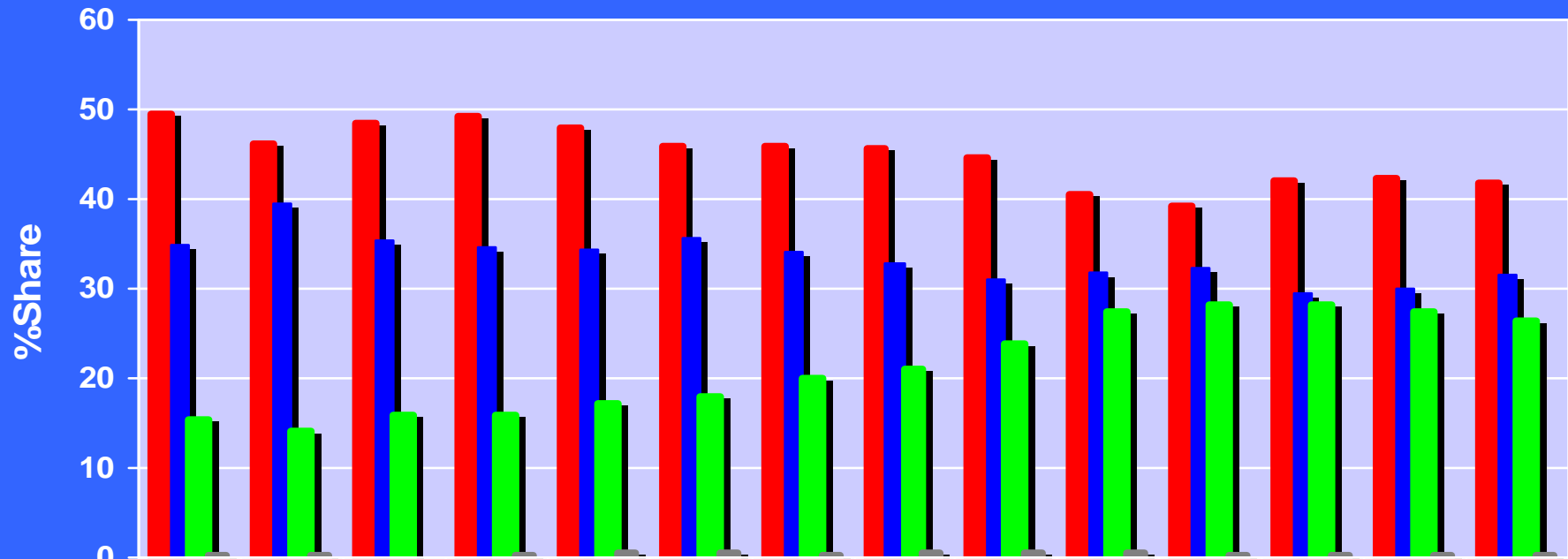
— EXPORTS — IMPORTS



	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
EXPORTS	-4.4	19.6	-3.2	-5.2	-6.4	-1.4	0.9	-4.9	-3.2	3.9	3.9	2.3	6.3	12.1	9.7	-8.1	-4.1
IMPORTS	11.1	-4.6	9.8	10.8	9.5	3.2	3.2	2.3	0	4.8	8.7	3.9	0.7	-5.1	-6	-10.3	-2.7

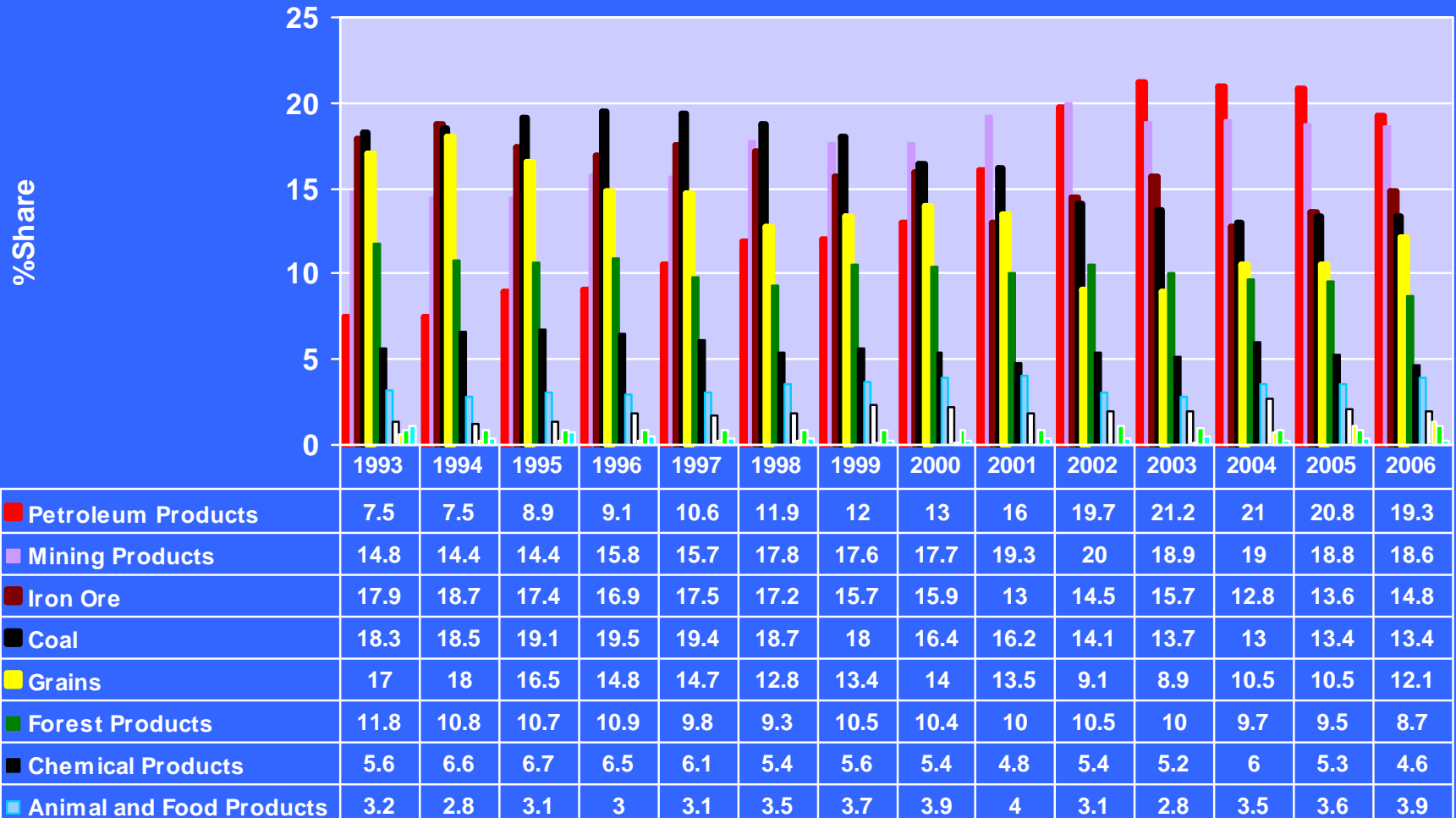
CANADIAN MARINE FREIGHT EXPORTS BY SEABOARD OUTLET

■ Pacific
 ■ GL-SLS
 ■ Atlantic
 ■ Arctic

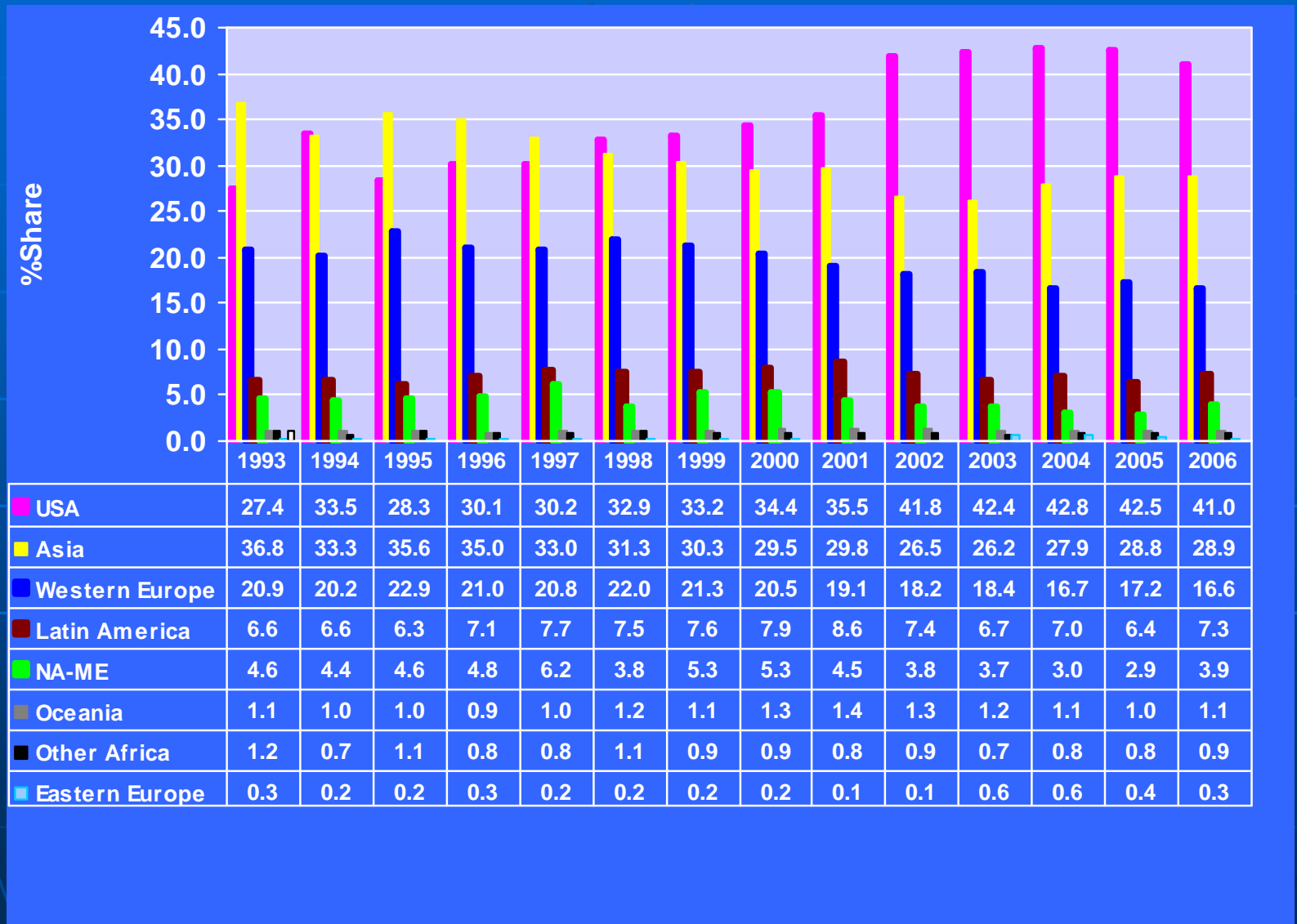


	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
■ Pacific	49.4	46.2	48.4	49.2	48	46	45.8	45.7	44.7	40.4	39.2	42	42.3	41.9
■ GL-SLS	35	39.4	35.5	34.7	34.3	35.6	34.1	32.7	31.1	31.7	32.4	29.6	30	31.6
■ Atlantic	15.5	14.2	15.9	15.9	17.3	18	19.9	21	23.8	27.5	28.1	28.2	27.5	26.3
■ Arctic	0.2	0.2	0.1	0.2	0.4	0.4	0.2	0.5	0.4	0.4	0.3	0.2	0.2	0.2

CANADIAN MARINE FREIGHT EXPORTS BY COMMODITY GROUP

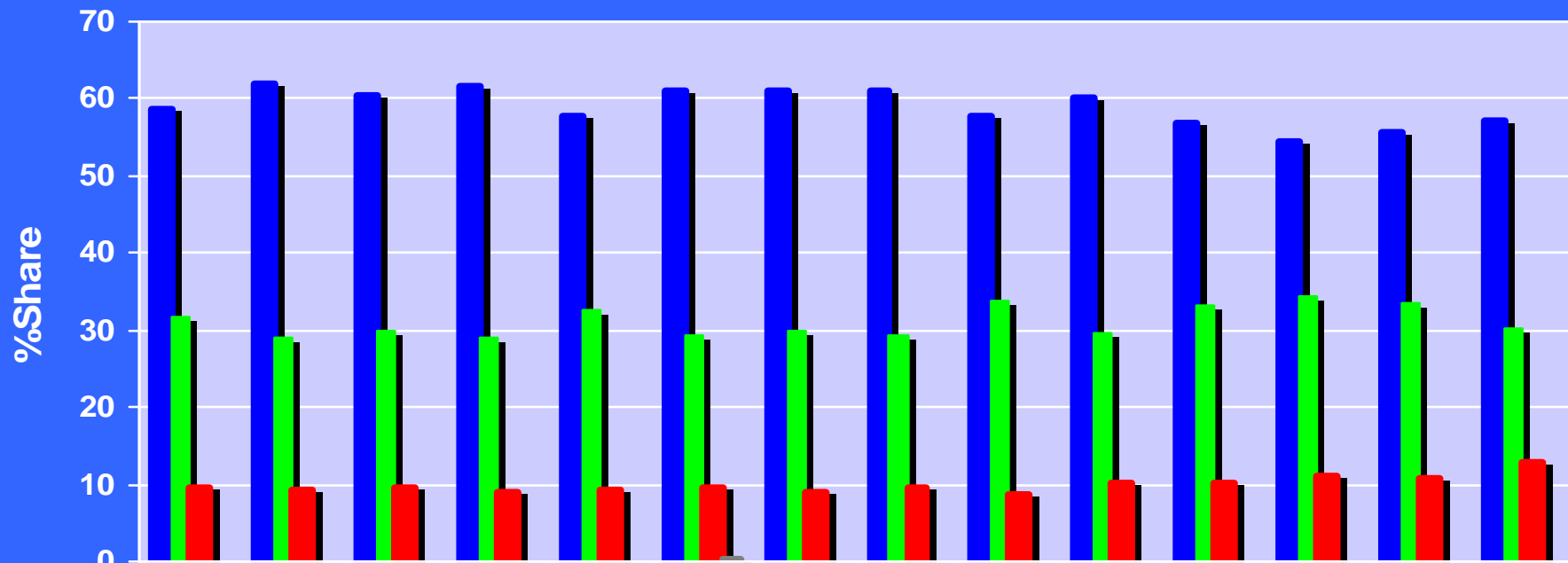


CANADIAN MARINE FREIGHT EXPORTS BY WORLD MARKET



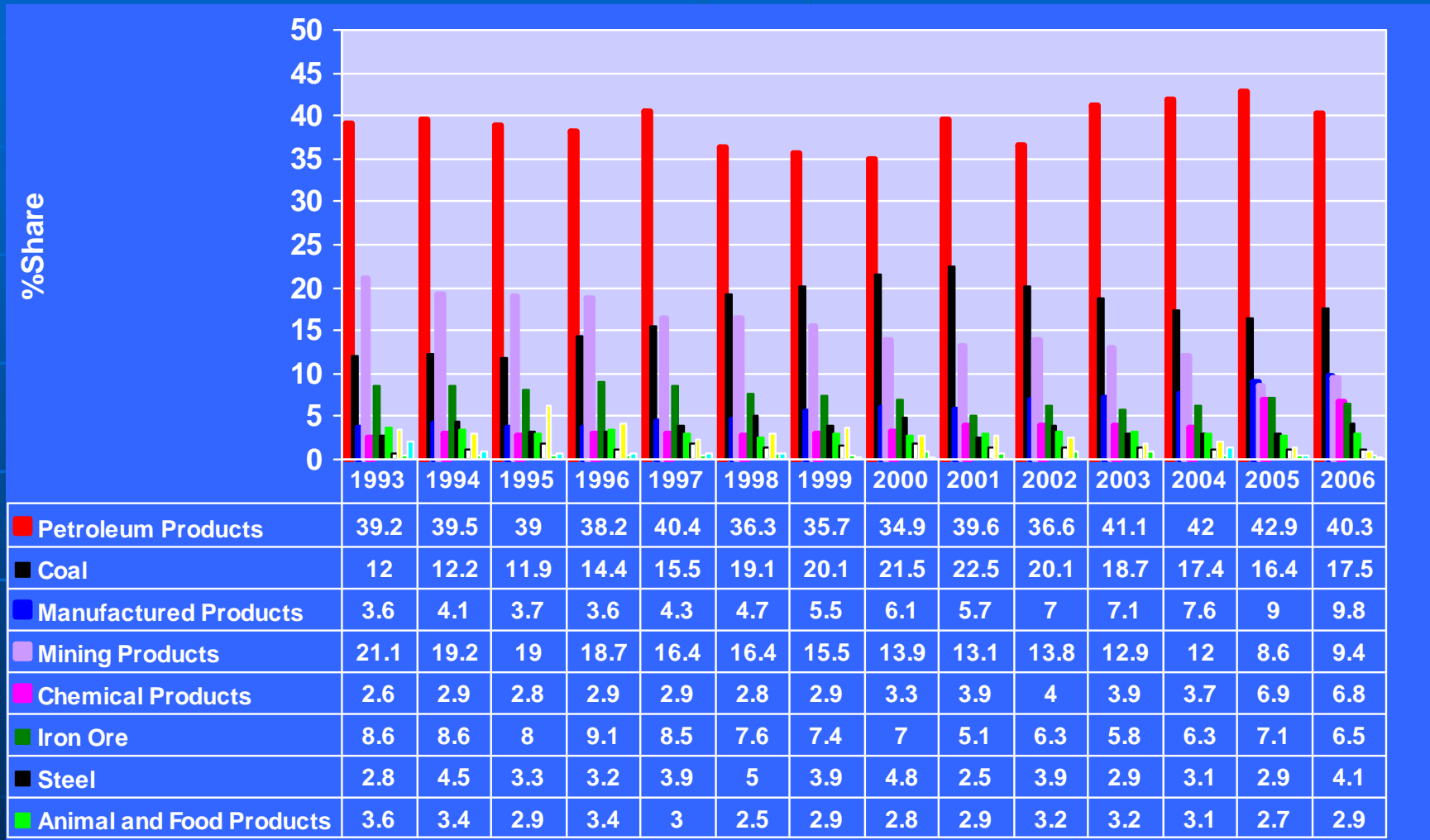
CANADIAN MARINE FREIGHT IMPORTS BY SEABOARD OUTLET

GL-SLS Atlantic Pacific Arctic

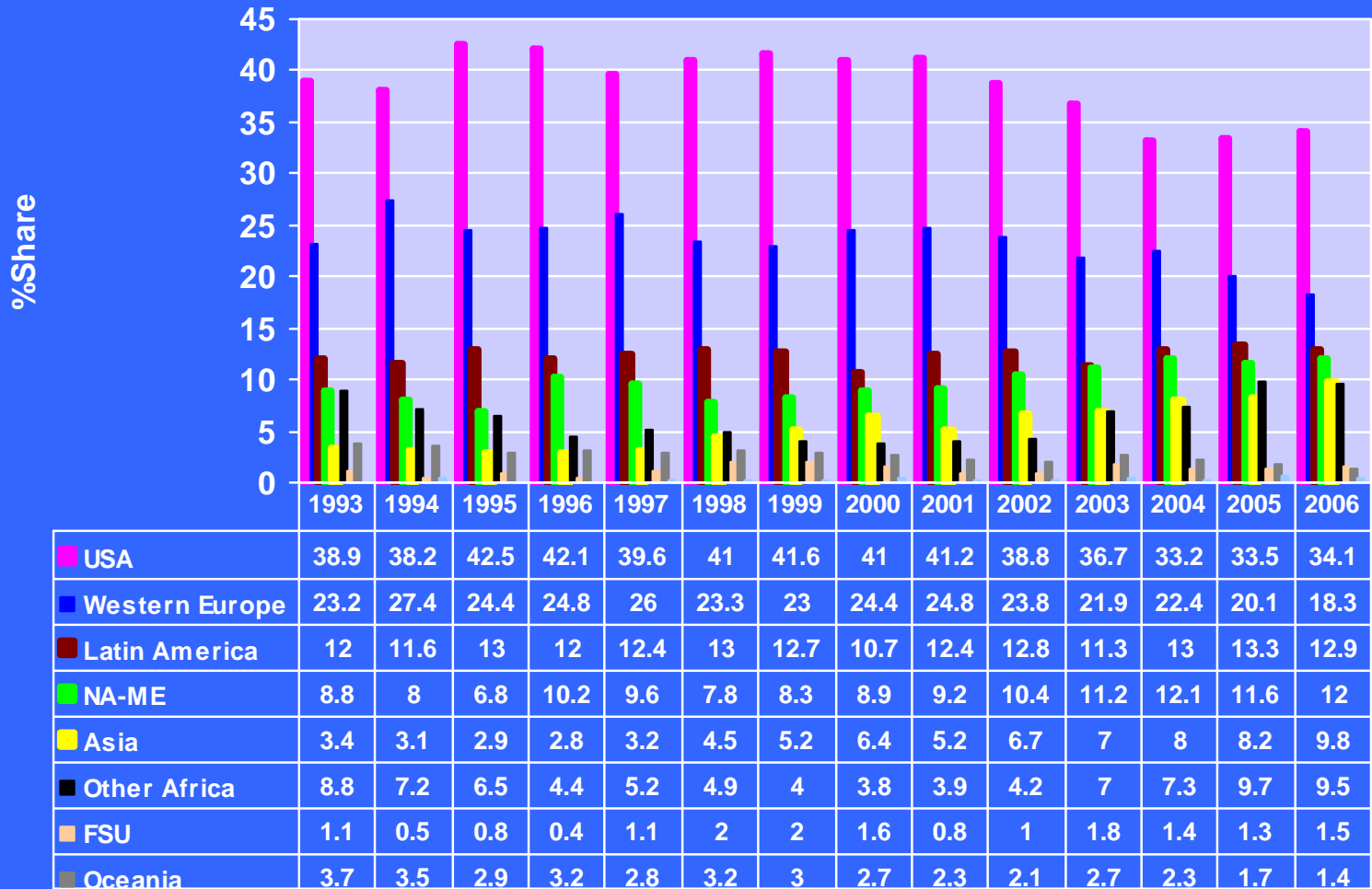


	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
GL-SLS	58.7	61.8	60.4	61.7	57.8	61	61.1	61	57.7	60.1	56.8	54.5	55.6	57.1
Atlantic	31.6	29	30	29.1	32.7	29.2	29.8	29.3	33.7	29.7	33.1	34.4	33.6	30.1
Pacific	9.7	9.2	9.6	9.1	9.4	9.6	9	9.5	8.6	10.1	10.1	11.1	10.8	12.9
Arctic	0	0	0	0	0.1	0.2	0.1	0.1	0	0.1	0	0	0	0

CANADIAN MARINE FREIGHT IMPORTS BY COMMODITY GROUP



CANADIAN MARINE FREIGHT IMPORTS BY WORLD MARKET



IMPACT OF THE ECONOMIC CRISIS ON THE CANADIAN MARINE FREIGHT TRADE, 1994-2010

— EXPORTS — IMPORTS

