

Beyond the Iceberg Hypothesis: Opening the Black Box of Transport Costs Online Appendix

Guillaume Daudin¹

Jérôme Héricourt²

Lise Patureau³

Contents

A	Additive-costs only Model	3
B	Transport Cost Estimates: Yearly Detailed Results	4
	B.1 3-Digits Level Product Classification	4
C	Eliminating the composition effects: Primary vs. Manufacturing sector . . .	7

¹Corresponding author. Université Paris-Dauphine, PSL Research University, LEDa-DIAL, UMR 225, France & SciencesPo, Observatoire Français des Conjonctures Économiques (OFCE), France; email: guillaume.daudin@dauphine.fr

²Corresponding author. Université de Lille - LEM-CNRS (UMR 9221) and CEPII; email: jerome.hericrourt@univ-lille1.fr

³Université Paris-Dauphine, PSL Research University, LEDa, France ; email: lise.patureau@dauphine.fr

List of Tables

A.1	Transport costs estimates : Summary	3
B.1	Air: Transport costs estimates, all years, 3-digit	5
B.2	Vessel: Transport costs estimates, all years, 3-digit	6

A. Additive-costs only Model

Table A.1: Transport costs estimates : Summary

Mean value over 1974-2013				
# digit	3 digits		4 digits (*)	
Mode	Vessel	Air (**)	Vessel	Air
With only Additive Transport Costs (\hat{t}^{add}, in %)				
Mean	9.2	5.1	8.0	5.8
Median	5.7	2.4	5.5	2.5
Data (p/\tilde{p}, in %)				
Mean	5.3	5.0	5.6	3.9
Median	4.3	2.0	4.4	1.9
# obs.	29279	28207	29317	27680
# origin country	188	191	188	189
# products	230	211	666	567

Notes: Statistics are obtained weighting each observation by its value relative to total trade flows. The additive term is expressed in fraction of fas price. (*): Four 4-digit estimation: on selected years. (**): 1989 omitted in 3-digit estimation for air.

B. Transport Cost Estimates: Yearly Detailed Results

B.1. 3-Digits Level Product Classification

Table B.1: Air: Transport costs estimates, all years, 3-digit

Year	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Model (A) - With only Ad-Valorem Trade Costs ($\hat{\tau}^{ice}$, in %)																				
Mean	6.9	7.5	7.2	7.7	6.9	6.1	5.4	6.0	6.4	6.9	7.2	6.1	6.4	6.6	5.7	5.3	5.0	5.1	4.9	5.1
Median	5.4	6.4	6.9	7.1	6.3	5.3	3.8	4.9	5.3	6.1	6.7	5.5	5.9	6.3	5.3	4.6	4.4	4.5	4.5	4.4
Model (B) - With Additive & Ad-Valorem Trade Costs																				
<i>Ad-valorem term ($\hat{\tau}^{adv}$, in %)</i>																				
Mean	3.6	3.7	3.9	3.8	3.2	3.0	2.3	2.8	2.8	2.6	3.3	2.5	3.2	2.6	3.1	3.1	2.4	2.7	2.2	2.4
Median	2.7	2.7	2.9	2.7	2.1	2.4	1.6	1.8	1.9	1.9	2.7	1.8	2.1	2.0	2.0	1.9	1.6	1.5	1.5	1.6
<i>Additive term (\hat{t}^{add}/\tilde{p}, in %)</i>																				
Mean	2.6	3.0	2.3	3.1	2.6	2.1	2.0	2.0	2.3	2.8	2.5	2.8	2.6	2.9	1.7	4.6	1.8	1.8	1.9	1.9
Median	1.1	1.2	0.9	1.3	1.1	0.7	0.5	0.6	0.8	1.0	1.0	1.3	1.3	1.5	1.0	0.7	0.8	0.6	0.9	0.8
# observations	14955	15299	11397	10707	15222	15684	16118	16864	17322	18180	20644	19908	20695	20793	24663	25197	24958	25156	26191	28296

Continued

Year	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Model (A) - With only Ad-Valorem Trade Costs ($\hat{\tau}^{ice}$, in %)																				
Mean	4.6	4.6	4.2	4.1	3.8	3.8	3.6	3.5	3.8	3.9	4.0	4.1	3.9	4.1	4.1	4.0	4.2	3.9	3.7	3.4
Median	3.7	3.8	3.1	3.0	2.7	2.8	2.5	2.4	2.7	2.6	2.9	3.1	2.7	3.0	3.2	3.0	3.4	3.1	3.0	2.9
Model (B) - With Additive & Ad-Valorem Trade Costs																				
<i>Ad-valorem term ($\hat{\tau}^{adv}$, in %)</i>																				
Mean	2.3	2.1	1.9	1.8	1.8	1.8	1.7	1.6	1.6	1.9	1.9	2.0	1.8	2.3	2.3	2.3	2.6	2.2	2.2	1.7
Median	1.3	1.4	1.4	1.3	1.3	1.5	1.2	1.1	1.2	1.4	1.4	1.6	1.4	1.9	1.9	1.8	2.2	1.7	1.9	1.7
<i>Additive term (\hat{t}^{add}/\tilde{p}, in %)</i>																				
Mean	1.7	1.6	1.5	1.5	1.4	1.4	1.3	1.3	1.6	1.4	1.5	1.4	1.3	1.2	1.2	1.2	1.1	1.1	0.9	1.0
Median	0.8	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5
# observations	29948	31037	32187	33502	33492	33523	35027	34885	35159	35891	36990	41806	42554	40858	40159	38275	40279	41190	40909	39351

Table B.2: Vessel: Transport costs estimates, all years, 3-digit

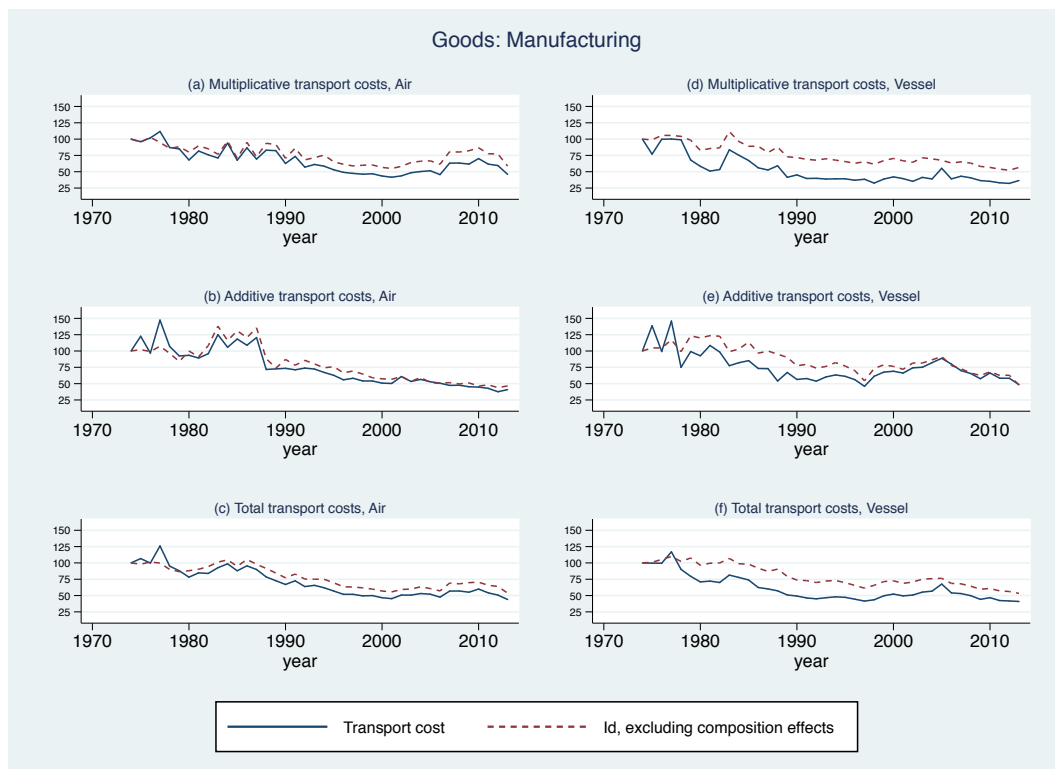
Year	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Model (A) - With only Ad-Valorem Trade Costs ($\hat{\tau}^{ice}$, in %)																				
Mean	9.8	9.9	8.9	8.3	8.1	7.5	6.5	6.0	6.3	7.0	7.0	6.9	6.7	6.2	6.1	5.7	5.7	5.5	5.0	5.2
Median	9.6	8.5	8.0	7.3	7.1	6.5	5.5	5.0	5.9	5.7	6.1	6.3	7.0	6.3	5.7	4.8	4.6	4.4	4.2	4.7
Model (B) - With Additive & Ad-Valorem Trade Costs																				
<i>Ad-valorem term ($\hat{\tau}^{adv}$, in %)</i>																				
Mean	5.4	4.8	5.4	5.2	5.9	4.6	3.1	3.3	3.4	4.2	4.1	4.0	3.9	3.6	4.0	3.0	3.3	3.0	2.6	2.9
Median	4.9	4.1	4.8	4.4	5.4	4.0	2.4	2.9	2.9	3.9	3.5	3.6	3.6	3.0	3.5	2.6	2.8	2.7	2.3	2.6
<i>Additive term ($\hat{\tau}^{add}/\tilde{p}$, in %)</i>																				
Mean	5.1	5.5	3.5	3.5	2.5	3.1	3.4	2.9	3.5	2.9	3.2	3.2	2.9	2.8	2.4	2.9	2.7	2.8	2.7	2.7
Median	2.9	3.6	1.9	1.7	1.2	1.7	2.3	1.5	2.3	2.0	2.3	2.1	1.8	1.8	1.3	2.0	1.7	1.7	1.8	1.6
# observations	19007	18710	13615	12826	16601	17274	17356	17788	18075	18883	21650	23348	23729	23626	27661	29106	28383	28095	29050	30839

Year	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Model (A) - With only Ad-Valorem Trade Costs ($\hat{\tau}^{ice}$, in %)																				
Mean	5.2	5.1	4.8	4.7	4.8	5.0	5.1	5.0	4.8	5.2	5.4	5.5	4.8	4.7	4.4	4.3	4.0	3.5	3.6	3.6
Median	4.1	4.3	3.9	3.9	3.9	4.5	4.9	4.6	4.1	4.8	5.1	4.9	4.2	4.2	3.8	4.1	3.6	3.0	3.1	3.3
Model (B) - With Additive & Ad-Valorem Trade Costs																				
<i>Ad-valorem term ($\hat{\tau}^{adv}$, in %)</i>																				
Mean	2.6	2.8	2.6	2.5	2.2	2.5	2.5	2.7	2.4	2.4	2.7	2.6	2.3	2.5	2.1	2.2	1.9	1.8	1.8	2.2
Median	2.2	2.5	2.2	2.2	1.9	2.1	2.1	2.6	2.3	1.9	2.8	2.2	1.9	2.3	1.8	2.0	1.8	1.6	1.4	1.8
<i>Additive term ($\hat{\tau}^{add}/\tilde{p}$, in %)</i>																				
Mean	2.9	2.7	2.5	2.5	3.2	2.8	2.8	2.4	2.6	3.2	2.9	3.0	2.8	2.4	2.4	2.1	2.5	1.9	1.9	1.5
Median	2.0	1.8	1.6	1.3	2.0	2.0	2.2	1.6	2.0	2.5	1.9	2.2	1.9	1.8	2.1	1.7	1.9	1.6	1.6	0.8
# observations	31865	32146	32344	33181	33986	34585	36090	36407	37255	37672	37757	41431	41763	39604	38950	37332	37748	38562	38387	38473

C. Eliminating the composition effects: Primary vs. Manufacturing sector

In this Section, we characterize the time trend in international transport costs at a more disaggregated level, by distinguishing the trade flows for primary goods and manufactured goods. The evolution in transport costs over time, by transport mode (overall transport costs and composition effects excluded) are reported in 1 for the manufacturing sector, and in Figure 2 for the primary goods.

Figure 1: Transport costs (with and without composition effects), Manufacturing



[TO BE COMPLETED]

Figure 2: Transport costs (with and without composition effects), Primary goods

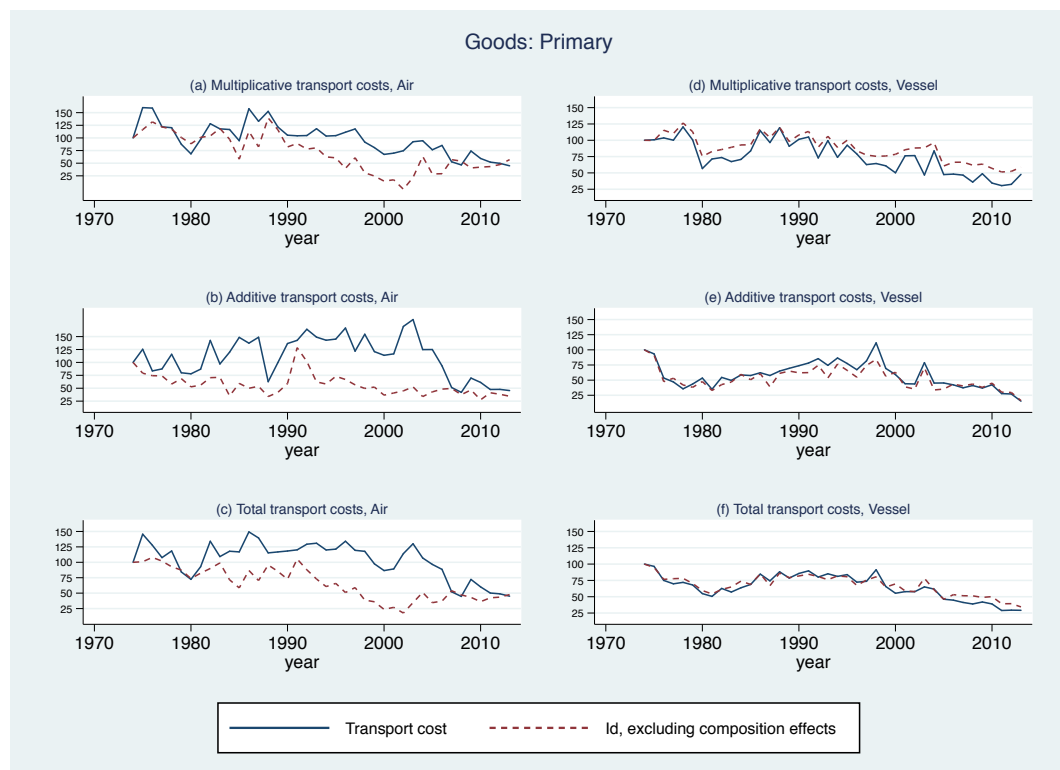


Figure 3: Share of primary goods in the value of total US imports

