

Goodness-of-fit tests at the 4-digit level We now report the goodness-of-fit exercise (conducted by transport mode) at the 4-digit product classification level (for the selected years). The results are reported in Tables 1 (for Air) and ?? (for Vessel).

Table 1: Air: Measures of Goodness-of-fit, 4-digits

	Year					
	1974	1981	1989	2001	2009	2013
R²						
Term I only	0.48	0.49	0.50	0.50	0.45	0.35
Terms A & I	0.63	0.66	0.65	0.66	0.54	0.45
SER						
Term I only					0.88	0.93
Terms A & I					0.80	0.86
Log-likelihood						
Term I only	-17505.55	-21813.46	-30960.56	-44067.62	-49375.57	-53197.87
Terms A& I	-14895.81	-18589.91	-26553.53	-37297.93	-45747.57	-49899.14
AIC criteria						
Term I only	36243.10	44966.91	63417.12	89747.24	100317.13	107963.73
Terms A & I	31873.63	39495.82	55777.05	77439.85	94059.14	102224.28
Test LL						
$2 \times (\text{ll}(\text{UR}) - \text{ll}(\text{R}))$	5219.47	6447.09	8814.06	13539.39	7255.99	6597.45
# restrictions	640	698	778	833	824	818
p-value	0.000	0.000	0.000	0.000	0.000	0.000

Notes: R^2 between the log of predicted ratio and the log of the observed ratio. The number # of restrictions is equal to the number of parameters estimated, i.e., the number of partner countries plus the number of products.