

Department of Economics and Finance

Competitive Devaluations in Commodity-Based Economies: Colombia and the Pacific Alliance Group

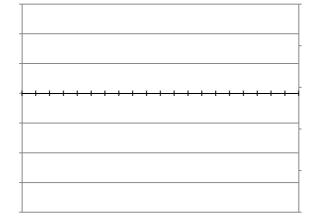
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1. Introduction

Lipin e recent jou arp dec ne no procesin as ed to a sinficant deterioration of joue trade balance LipB in Coo bia. Processor a ersin ave responded by devaluin joue currency and sinning to joue Pacific A ance Group Pacific Free Liprade A reelent EtpA. Lipin e a of jour sistudy sito evaluate joue effects on trade flows of jour sitype of collective devaluation in a collection od tybased econolity super as Coo bia. According to joue proce e asticity approago a devaluation joue dincrease exports by a night element of the experiment of joue expensive niter is of joue do est courrency. However joue e procalevidence is rajouer in the soft joue do est courrency. However joue e procalevidence is rajouer in the case of a country super as Coo bia. In jour synty y dependent on o exports jouat represent a ost of total exports.

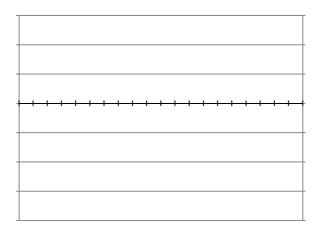
F ures and prown at the e Coo bantable spost very neat very corrected to the e oprice index no na expran e rate. It can be seen to at during periods with the eroproces to effort decade of the scentury to explain surplus and to eno na expran e rate appreciates.

Figure 1. Trade Balance and Oil Price Index



Source: DANE (www.dane.gov.co)

Figure 2. Trade Balance and Nominal Exchange Rate



Source: DANE (www.dane.gov.co)

Figure 3. Colombia's Trade Balance vis-à-vis Its Main Trading Partners

Source: DANE (www.dane.gov.co)

F ure pows to e Coo b an tpB v s a v s ts RGA trade partners dur n to e per od

you e t re a ned n surp us n a cases but v s a v s Mex co overa to ere

was a ne at ve trend with ncreas n def c ts with respect to the ere

In co od ty based econo es in in er ower co od ty prices could ead to appreciations depreciations of its e currency. For instance. Hab b and Ka a ova Ka is eva and Oo es. Jis an Rarvar and Miss a ad. Kojis onen and Juur a a Hasanov findistististe real existian e rates in o producin countries appreciates in its e on run. Has a sin

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defined as P_{GPA} NE P_{C} P_{GPA} be note to express the end of the RGA countries and P_{C} to e price even note to be a NE store not note that a sector i calculated as $TB_{i} = (X_{i} - M_{i})_{F} GDP$ where X_{i} and M_{i} stand respectively for exports and ports of ndustry i to from each RGA country there are the end of the end of

4. Empirical Results

4.1 Data and S-curve Analysis

Estad st cas are used not study to avoid any potent a a reat on b as nevaluating to effects of a devaluation on trade flows the effects of a devaluation on trade flows to the effects of a devaluation on trade flows to a state of the effects of a devaluation on trade flows to the effects of a devaluation on trade flows to the effects of a devaluation on trade flows to the effects of a devaluation on trade flows to the effects of a devaluation of the effects of a devaluation on trade flows to the effects of a devaluation on trade flows the effects of a devaluation of the effects of a devaluation of the effects of the effects

Table 1. S-Curve and Bilateral Analysis by Industrial sector

CIIU Code	Industrial Sectors	Chile	Ecuador	México	Peru
10	Manufacture of food products	Yes	Yes	No	No
11	Preparat on of bevera es	No	No	No	No
12	Manufacture of pobacco	No	No	No	No
13	Manufacture of text es	No	No	No	No
14	Manufacture of c on n	No	No	No	No
1	Lipann n and retain n of eath er is one a n anufacture of su teases in andba s and s ar art c es and anufactur n of sadd er and arness dress n and dye n of fur	No	Yes	No	No
ood process n and anufacture of products of wood and cor except furn ture anufacture of art c es of straw and p a t n Manufacture of paper cardboard and paper products and cardboard		No	Yes	No	No
		No	No	No	Yes

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Source: DANE (www.dane.gov.co)

However for the ree of the e an industries Manufacture of basic eta products sector Manufacture of co puter e ectronic and optical products and Manufacture of Motor vipic cest raters and se traters a devaluation does not to ave the edes red effects on trade flows

F ure you ows you e ypB n rea ter s by ndustra sector ypo e sectors w you you e b est deficit are Manufacture of basic etal products

rate v s a v s Co o b a s **R**GA trad n partners As a ready ent oned to e ser es are annua and cover to e per od fro to

Table 2. Descriptive Statistics

Variables	Obs.	Mean	Std. Dev.	Min.	Max.
Manufacture of bas c eta produstts t Do ars					

Up e est ated pane ode symbol e fo own $TB_{it} = \alpha + \beta \cdot RBER_{it} + \beta \cdot GDP_{it} + \eta_i + u_{it}$

where TB_{ii} subsequently easured in the easured of the easure

Table 2. Regression output. Sector CIIU classification 24: Manufactures of Basic Metal

Variables	(i) OLS	(ii) FE	(iii) FE Time effects
ea B atera Exp an e ate			
GD R			
Constant			
Observat ons			
squared			
Nu ber of Country			
Country FE		YE_	YE_
Year FE		•	YE_

Country f xed effects, ave been no uded n a spec f cat ons p_0 e dependent var ab e s BE n f cant at eve n f cant at eve s n f cant at eve

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Endnotes

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Appendix

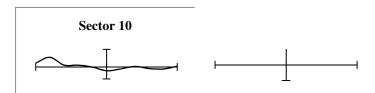
Figure A2. S-Curve: Ecuador

Sector 10	Sector 11	
T a	J	T

Figure A3. S-Curve: Mexico



Figure A4. S-Curve: Peru



References

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Resaran M H and p n Y Genera zed I pu se esponse Ana ys s n L near Mu t var ate Mode Econo c Letters

n an M Mustafa M and Burc e D Dyna cs of no e yen do ar rea expo an e rate and