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Tourism Growth in the Caribbean

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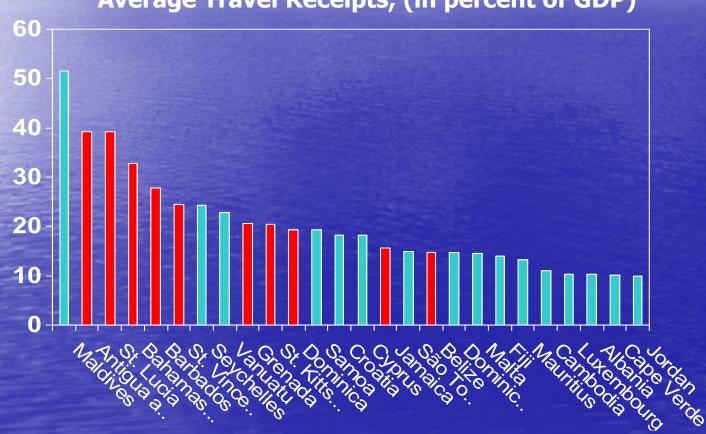
Tourism Growth in the Caribbean: The Role of Competition

Padamja Khandelwal Natalia Barrera Cleary Haines

November 26, 2007

Caribbean countries are among the most tourism intensive in the world

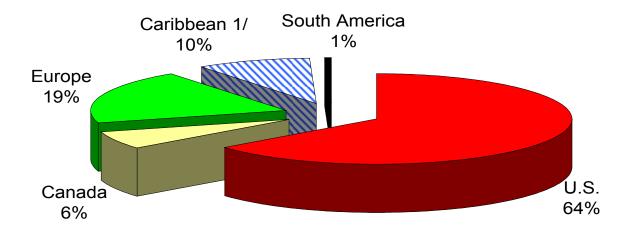
Average Travel Receipts, (in percent of GDP)



Source: IMF, International Financial Statistics.

The Caribbean is dependent on a few markets

Share of Caribbean Tourist Arrivals by Market of Origin, Average 2000–2004 (In percent of total tourist arrivals to the Caribbean)

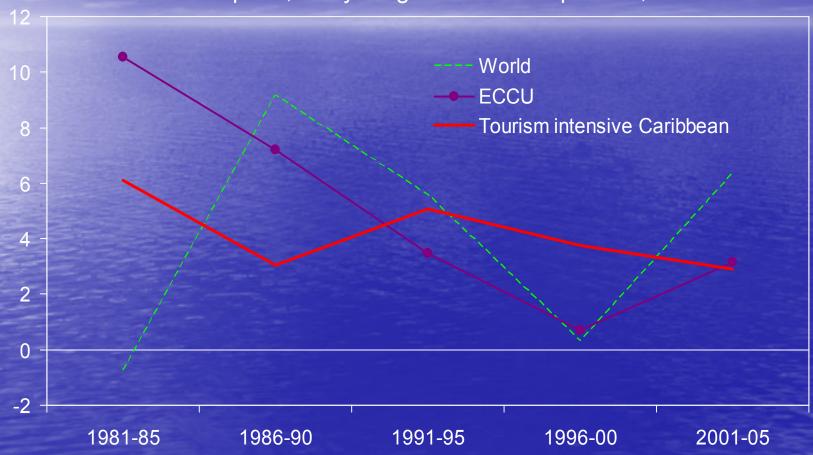


Source: Caribbean Tourist Organization.

1/ The Caribbean market of origin includes the wider Caribbean.

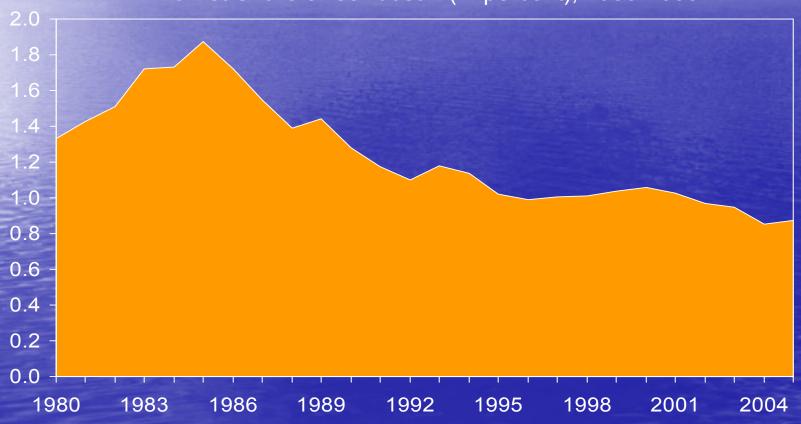
Caribbean tourism growth has slowed

Real Travel Exports, five year growth rates in percent, 1981-2005



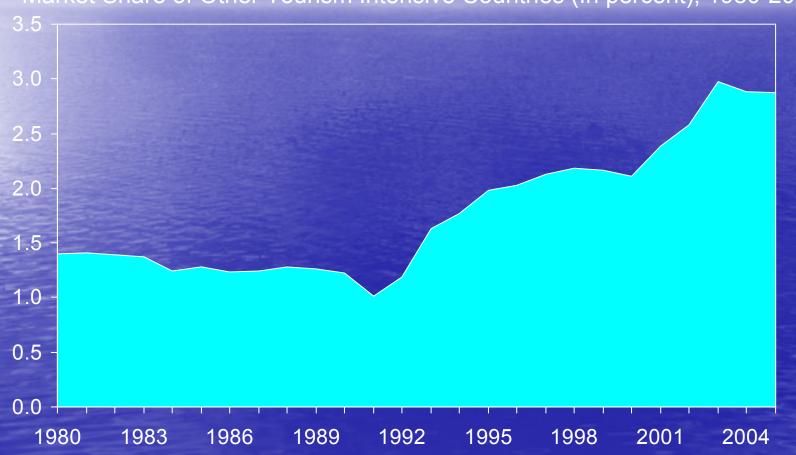
Caribbean market share in tourism has declined since the mid-1980s

Market Share of Caribbean (In percent), 1980-2005



Market share of other tourism intensive countries has doubled

Market Share of Other Tourism Intensive Countries (In percent), 1980-2005



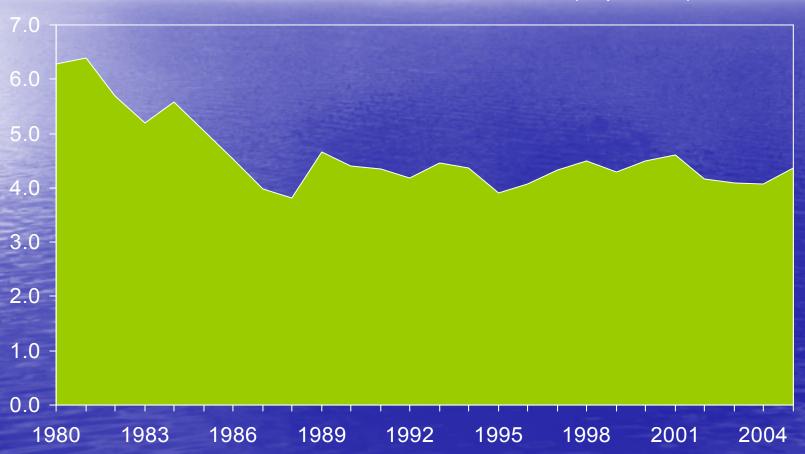
Market share of East Asia-Pacific region has doubled

Market Share of East-Asia and Pacific Countries (In percent), 1980-2005



Market share of South-Central America and Mexico has declined

Market Share of South Central America and Mexico (In percent), 1980-2005



Research Question

What factors are responsible for the decline in Caribbean tourism growth rates since the mid 1980s?

- Rise of new tourism destinations
- Price competitiveness

Literature

- Competition Literature
- Freund (2006)
- Ahearne, et. al. (2003)
- Lall, Weiss, and Oikawa (2005)
- Dimaran et. al. (2007)
- Lederman et. al. (2007)
- Tourism Demand literature
- Tsounta (forthcoming), Mwase (forthcoming)

Empirical Approach

- Panel with country-specific fixed effects (Freund, 2006, and Ahearne et. al., 2003)
- Annual data 1986-2005
- Dependent variable: travel exports growth for 10 tourism intensive Caribbean countries.
- Control Variables: September 11, Natural disasters

Empirical Approach

Independent variables:

Percent change in the travel weighted REER — measure of price competitiveness

Real FDI – measure of supply factors

Real travel exports growth from Dominican Republic

Real travel exports growth from non-Caribbean tourism intensive countries.

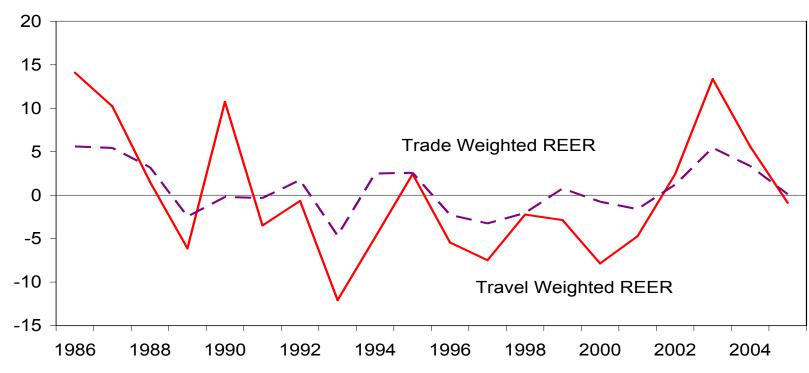
Real travel exports growth from South-Central America and Mexico

Real travel exports growth from non-tourism intensive east Asia-Pacific

Weighted real travel imports growth from U.S., Europe, and Canada – measure of demand factors

Travel weighted REER more volatile than traditional measure

Tourism Intensive Caribbean: Real Effective Exchange Rate (Annual Percent Change)



Sources: IMF, Information Notice System; and Fund staff calculations.

Note: An increase signifies a depreciation.

Regression results

Competition in Tourism Intensive Caribbean Countries (Dependent variable: Travel Exports Growth, 1986:2005)

· ·	Panel fixed effects		FD-GMM	
_	Coefficient	P-value	Coefficient	P-value
ΔREER	0.001	0.030 **	0.006	0.037 **
Real FDI	0.000	0.849	0.000	0.910
Travel X Dominican Republic	0.084	0.042 **	-0.034	0.811
Travel X Other Tourism Intensive	0.094	0.391	0.049	0.894
Travel X South-Central America and Mexico	0.394	0.000 ***	0.375	0.077 *
Travel X Non-tourism intensive Asia-Pacific	0.033	0.784	0.121	0.800
Travel M _{major markets}	0.212	0.000 ***	0.364	0.005 ***
Sept 11	-0.038	0.038 **	-0.076	0.167
Natural Disaster _t	-0.002	0.801	-0.009	0.622
Lagged dependent variable C	-0.002	0.743	0.138	0.001 ***
No. of Obs.	200		199	
R-squared	0.54			

Note: Real data for all the travel series are in growth rates.



- Hausman test
- Redundant fixed effects test
- Sargan test statistic on FD-GMM estimates
- Errors do not have unit root

Interpretation and Conclusions

- Price competitiveness is an issue
- Elasticity with respect to major markets is low, relative to previous estimates.
- Travel to the Dominican Republic and South-Central America and Mexico is complementary, not competitive.
- Other tourism intensive countries, and east-Asia Pacific destinations do not seem to have had an impact on Caribbean.