

A Service of

ZBW

Leibniz-Informationszentrum Wirtschaft Leibniz Information Centre for Economics

Tol, Richard S.J.; Bigano, Andrea; Hamilton, Jacqueline M.; Zhou, Yuan

Working Paper A Global Database of Domestic and International Tourist Numbers at National and Subnational Level

Nota di Lavoro, No. 3.2005

Provided in Cooperation with: Fondazione Eni Enrico Mattei (FEEM)

Suggested Citation: Tol, Richard S.J.; Bigano, Andrea; Hamilton, Jacqueline M.; Zhou, Yuan (2005) : A Global Database of Domestic and International Tourist Numbers at National and Subnational Level, Nota di Lavoro, No. 3.2005, Fondazione Eni Enrico Mattei (FEEM), Milano

This Version is available at: https://hdl.handle.net/10419/73944

Standard-Nutzungsbedingungen:

Die Dokumente auf EconStor dürfen zu eigenen wissenschaftlichen Zwecken und zum Privatgebrauch gespeichert und kopiert werden.

Sie dürfen die Dokumente nicht für öffentliche oder kommerzielle Zwecke vervielfältigen, öffentlich ausstellen, öffentlich zugänglich machen, vertreiben oder anderweitig nutzen.

Sofern die Verfasser die Dokumente unter Open-Content-Lizenzen (insbesondere CC-Lizenzen) zur Verfügung gestellt haben sollten, gelten abweichend von diesen Nutzungsbedingungen die in der dort genannten Lizenz gewährten Nutzungsrechte.

Terms of use:

Documents in EconStor may be saved and copied for your personal and scholarly purposes.

You are not to copy documents for public or commercial purposes, to exhibit the documents publicly, to make them publicly available on the internet, or to distribute or otherwise use the documents in public.

If the documents have been made available under an Open Content Licence (especially Creative Commons Licences), you may exercise further usage rights as specified in the indicated licence.



WWW.ECONSTOR.EU



A Global Database of Domestic and International Tourist Numbers at National and Subnational Level

Andrea Bigano, Jacqueline M. Hamilton, Maren Lau, Richard S.J. Tol and Yuan Zhou

NOTA DI LAVORO 3.2005

JANUARY 2005

CCMP – Climate Change Modelling and Policy

Andrea Bigano, Fondazione Eni Enrico Mattei and Centre for Economic Studies, Catholic University of Leuven Jacqueline M. Hamilton and Maren Lau, Research unit Sustainability and Global Change, Hamburg University and Centre for Marine and Atmospheric Science Richard S.J. Tol, Research unit Sustainability and Global Change, Hamburg University and Centre for Marine and Atmospheric Science, Institute for Environmental Studies, Vrije Universiteit, Engineering and Public Policy, Carnegie Mellon University Yuan Zhou, International Max Planck Research School of Earth System Modelling, Research unit Sustainability and Global Change, Hamburg University and Centre for Marine and Atmospheric Science

This paper can be downloaded without charge at:

The Fondazione Eni Enrico Mattei Note di Lavoro Series Index: http://www.feem.it/Feem/Pub/Publications/WPapers/default.htm

Social Science Research Network Electronic Paper Collection: http://ssrn.com/abstract= 649541

The opinions expressed in this paper do not necessarily reflect the position of Fondazione Eni Enrico Mattei Corso Magenta, 63, 20123 Milano (I), web site: www.feem.it, e-mail: working.papers@feem.it

A Global Database of Domestic and International Tourist Numbers at National and Subnational Level

Summary

We present a new, global data base on tourist destinations. The data base differs from other data bases in that it includes both domestic and international tourists; and it contains data, for the most important destinations, data at national level as well as at lower administrative levels. Missing observations are interpolated using statistical models. The data are freely accessible on the internet.

Keywords: Tourism, Data

JEL Classification: L83

This paper is part of the research work being carried out by the Climate Change Modelling and Policy Research Programme, Fondazione Eni Enrico Mattei, and by the Research Unit on Sustainability and Global Change, Hamburg University and Centre for Marine and Atmospheric Science, Hamburg.

Alvaro Calzadilla, Poul Grashof, Marie Guillore, Malgorzata Zbylut and particularly Jenny Behm helped with the data and the maps. The CEC DG Research through the DINAS-Coast project (EVK2-2000-22024), the US National Science Foundation through the Center for Integrated Study of the Human Dimensions of Global Change (SBR-9521914), the International Max Planck Research School of Earth System Modelling, the Ecological and Environmental Economics Programme of the International Centre for Theoretical Physics, and the Michael Otto Foundation for Environmental Protection provided welcome financial support. All errors and opinions are ours.

Address for correspondence:

Richard S.J. Tol Hamburg University Bundesstrasse 55 20146 Hamburg Germany Phone: +49 40 428387007/8 Fax: +49 40 428387009 E-mail: tol@dkrz.de

1. Introduction

Recreation and tourism is one of the largest industries of the world, some even say the largest. Yet, information on tourism is hard to get. Although there is a wealth of data, there are few comprehensive, internally consistent data-sets. If one were to ask the question "Where do tourists go?" the answer would be vague. The World Tourism Organisation collects data at the national level (WTO, 2003), so that the answer would be that "France is the most popular destination of international tourists". France, however, is a big and diverse country; in Limousin, tourists are few and far between.¹ If one instead turns to survey data, say of German tourists, the most common type of international tourist, one would find reasonable geographical detail for the most popular destinations, but for less popular choices, countries are grouped. 5.8% of German tourists go to the Balearic Islands, and 0.3% to Southern Africa (FUR, 1998). A further problem is that international tourism is only one part. Domestic tourism is important too. Most US tourists never leave their country, but their numbers are far bigger than the Germans'. This paper attempts to fill these gaps. It presents a new data-base that (a) combines domestic and international tourism, (b) has destinations at national and subnational level, and (c) interpolates missing observations.

Section 2 discusses the data, definitions, sources, problems and interpolation algorithms. Section 3 shows and interprets the results. Here, we present maps with all data and tables with selections. The entire data-set will be put in the public domain once peer-reviewed. Section 4 concludes. The Appendix contains a list of all data-sources.

2. The data

2.1. International arrivals and departures

The data on international arrivals and departures for 1995 are taken from the World Resources Databases (WRI, 2000).² Although 1995 is a while back, it is the year with the most comprehensive international coverage; countries are slow to report tourism numbers. There are two major problems with this dataset. Firstly, for some countries, the reported data are arrivals and departures for tourism only. For other countries, the data are arrivals and departures for all purposes. Unfortunately, it is impossible to correct for this.³ Secondly, there are missing observations, particularly with regard to departures.

For arrivals, 181 countries have data but 26 do not. We filled the missing observations with a statistical model, viz.

(1)
$$\ln A_i = 5.97 + 2.05 \cdot 10^{-7} Area_i + 0.22 T_i - 7.91 \cdot 10^{-3} T_i^2 + 7.15 \cdot 10^{-5} Coast + 0.80 \ln Y_i$$
$$N = 139; R_{adi}^2 = 0.54$$

where A denotes total arrivals, Area is land area (in square kilometre); T is annual average temperature for 1961-1990 (in degrees Celsius) averaged over the country, Coast is length of

¹ This may come as a surprise, as Limousin is both pleasant and beautiful. However, it cannot compete with the its neighbouring departments, which have a better infrastructure as well as a coast (Guillore, personal communication, 2004).

communication, 2004). ² The reported departures from the Czech Republic were divided by 10; comparison to earlier and later years shows that the 1995 data have a typographical error.

³ However, we did correct the Polish departure data. According to Statistic Poland, only 12% of the reported international departures are tourists (Central Statistical Office Poland,

http://www.stat.gov.pl/english/serwis/polska/rocznik11/turyst.htm)

coastline (in kilometres), and Y is per capita income; *i* indexes destination country. This model is the best fit⁴ to the observations for the countries for which we do have data.⁵ The total number of tourists increases from 55.2 million (observed) to 56.5 million (observed + modelled). The 26 missing observations constitute only 2% of the international tourism market.

For departures, the data problem is more serious: 107 countries report but 99 do not;⁶ 46.5 million departures are reported, against 56.5 million arrivals, so that 18% of all international tourists have an unknown origin. We filled the missing observations with a statistical model, viz.,

(2)
$$\ln \frac{D_i}{Pop_i} = 1.51 - 0.18T_i + 4.83 \cdot 10^{-3}T_i^2 - 5.56 \cdot 10^{-2} Border + 0.86 \ln Y_i - 0.23 \ln Area_i$$
$$N = 99; R_{adj}^2 = 0.66$$

where *D* denotes departures (in number), *Pop* denotes population (in thousands) and *Border* is the number of countries with shared land borders; *i* indexes the country of origin. This model is the best fit⁷ to the observations for the countries for which we do have data.⁸ This leads to a total number of departures of 48.2 million, so we scaled up *all* departures⁹ by 17% so that the total number of observed and modelled departures equals the total number of observed and modelled arrivals.

2.2. Domestic tourism

For most countries, the volume of domestic tourist flows is derived using 1997 data contained in the Euromonitor (2002) database. For some other countries, we rely upon alternative sources, such as national statistical offices, other governmental institutions or trade associations. Data are mostly in the form of number of trips to destinations beyond a nonnegligible distance from the place of residence, and involving at least one overnight stay. For some countries such data format was not available, and we resorted to either the number of registered guests in hotels, campsites, hostels etc., or the ratio between the number of overnight stays and the average length of stay. The latter formats underestimate domestic tourism by excluding trips to friend and relatives; nevertheless we included such data for completeness.

⁴ The estimation procedure started with a large number of explanatory variables, including precipitation, number of world heritage sites, political stability and a range of other indicators. Explanatory variables that are individually and jointly insignificant were eliminated. The shown specification results. We experimented with different representations of temperature (e.g., temperature of the hottest month); the annual average temperature describes the data best.

⁵ The data on per capita income were taken from WRI (2000), supplemented with data from CIA (2002); the data on area and the length of international borders are from CIA (2002); the data on temperature from New *et al.* (1999). All data can be found at http://www.uni-hamburg.de/Wiss/FB/15/Sustainability.

⁶ These are mostly African countries and small dependencies; however, data from Pakistan and Taiwan are also missing. Luxemburg is the only OECD country without departures data.

⁷ The estimation procedure started with a large number of explanatory variables. Explanatory variables that are individually and jointly insignificant were eliminated.

⁸ The data on population were taken from WRI (2000), the data on the number of land borders were taken from CIA (2002).

⁹ Scaling up only the interpolated departures leads to distortions, as many small countries do not report departures data. Besides, countries have less of an interest in counting departures than in counting arrivals, so departures are probably underreported even if there are data available. Note that by equating total arrivals and total departures numbers, we assume that tourists visit one country per trip only.

In general, the number of domestic tourists is less than the regional population; however, in 22 countries, people take domestic holidays more than once per year. A look at the characteristics of such countries shows that these are generally rich countries, endowed with plenty of opportunities for domestic tourism and large (or at least medium-sized). This definition fits in particular Scandinavian countries (e.g., 4.8 domestic tourists per resident in Sweden) but also Canada, Australia, and the USA.¹⁰ In the USA, the combination of a large national area, a large number of tourist sites, high income per capita and a willingness to travel long distances contribute to explain why, on average, an average American took a domestic holiday 3.7 times in 1997. Distance from the rest of the world is also important, and this is most probably the explanation for Australia and New Zealand.

We filled the missing observations using two regressions. We interpolated total tourism numbers using

(3)
$$\ln \frac{T_i}{Pop_i} = -1.67 + 0.93 \ln Y_i$$
$$N = 63; R_{adi}^2 = 0.60$$

The ratio of domestic and international holidays was interpolated using

$$\ln \frac{D_i}{T_i} = -3.75 + 0.83 \cdot 10^{-1} \ln Area_i + 0.93 \cdot 10^{-1} \ln Coast_i + 0.16 \cdot 10^{-1} T_i - 0.29 \cdot 10^{-3} T_i^2$$

$$(4) \qquad + \left(0.16 - 4.43 \cdot 10^{-7} Y_i\right) \ln Y_i$$

$$N = 63; R_{adi}^2 = 0.36$$

Data sources are as above. The temperature parameters are not statistically significant from zero at the 5% level, but they are jointly significant. "Observations" for 1995 were derived from 1997 observations by dividing the latter by the population and per capita income growth between 1995 and 1997, correcting the latter for the income elasticity of (3) and (4).

For the total (domestic and foreign) number of tourists, the world total is 12.0% higher if we include the interpolated tourist numbers, that is, 4.0 billion versus 3.6 billion tourists. The observed world total include those countries for which we have observed both domestic tourists and international arrivals. For domestic tourists only, the observations add up to 3.1 billion tourists, and 3.5 billion tourists with interpolation, a 12.1% increase.

Note that Equations (3) and (4) can be used to derive international departures, just like Equation (2). The correlation coefficient between these two alternatives is 99.8%. We prefer (2) for its simplicity.

2.3. Regional tourism

Regional tourism data was taken from national statistical offices or tourism authorities. One exception is Canada, for which we had to look at the provincial statistical offices instead. Another exception is the EU, where we relied on the supranational statistical office EuroStat, using data on NUTS2, sometimes NUTS1 or NUTS3¹¹ level. Unfortunately, the EU data does not cover all of the EU countries; none of the accession countries has regional data, and not

 ¹⁰ Poland, ranking 8th, is particularly active notwithstanding substantially lower per capita income than the rest of the top 10 countries; this may be because (illegal) seasonal labour migration is registered as tourism.
 ¹¹ NUTS0 is national, NUTS4 and NUTS5 municipal, and NUTS1-3 are somewhere in between, depending on the country; NUTS4 and NUTS5 are now LAU1 and LAU2.

even all of the original EU countries report regional data; for these countries, we resort to the number of tourist beds.

The regional tourism data comes in all sorts of specifications: tourists, tourists in hotels, bed nights, border crossings, expenditures, hotel capacities (beds), or pleasures parties. For every country for which we have regional information, we used whatever information we had to give each region its share in the nation. We use this share to apportion the national data to the regions.

Thus, in our data base, regional tourism numbers equal the national number (from the international data bases) times the regional share (from the national data base). We do this so that the tourism numbers in countries and parts of countries all derive from a single, internally consistent, international data base. Supplementary, national data is used only for within-country patterns.

For most countries, regional tourism is reported separately for domestic tourists and international tourists. Domestic regional tourism patterns are generally very different than international regional tourism patterns. Some countries report only on international tourists, and a few on domestic and international tourists combined; most countries that report only hotel capacities do not distinguish between domestic and international tourists. For those countries, we assume that domestic and international tourists behave the same, for want of better information: Although the differences between domestic and international patterns are clear, one cannot predict the domestic pattern from the international pattern or vice versa.

Regional tourism data seldom extends over more than a few years, and data is typically more recent than 1995, the base year for our national statistics. We use the year closest to 1995.

We searched for regional tourism data for all countries that are in the top 25 of international, domestic, or total tourist destinations.¹² The countries for which we have regional data cover 79% of all international tourism, 78% of all domestic tourism. For countries without regional data, we use the area of the region, essentially assuming that tourists spread evenly over a country.

3. Results

Table 1 shows the 10 countries with the highest tourism demand, measured in number of tourists. The United States leads in domestic tourism, followed by China, India, Brazil and, surprisingly, the United Kingdom. The top 10 countries cover 77.9% of all domestic tourism. In international tourism, Germany leads, followed by the USA, the UK, Russia and Malaysia. Ranks 4 and 5 are surprising, as is Hungary in rank 10. Probably, temporary labour migration is misclassified as tourism. The top 10 countries cover 60.2% of all international tourism. Table 1 also shows total (domestic plus international) tourism demand. This ranking is dominated by domestic tourism. The top 5 is identical, but below that Germany and France advance at the expense of Poland. The top 10 countries cover 73.4% of world tourism demand.

Table 2 shows the 10 countries with the highest tourism supply, measured in number of tourists. For domestic tourism, supply equals demand. France is the most popular destination for international tourists, followed by the USA, Spain, Italy and the UK. The top 10 destinations cover 52.2% of all supply. Table 2 also shows total (domestic plus international) tourism supply. Again, the ranking is dominated by domestic tourism. The USA is the most popular tourist destination, followed by China, India, Brazil and the UK. France, the most

¹² Countries for which we tried but failed to find regional data are Algeria, Brazil, Chile, Colombia, Egypt, Morocco, New Zealand, Russia, South Korea, Tunisia, and Vietnam.

popular destination for international tourists, ranks sixth. The top 10 covers 72.0% of world tourism supply.

Figure 1 shows the numbers of domestic tourists per country. Countries with larger and richer populations have more domestic tourists. Figure 2 shows the numbers of international departures per country. Countries with larger and richer populations have more international tourists, but compared to Figure 1, income matters more. Another factor is that smaller countries have more international departures. An exception in Figures 1 and 2 is Russia, which has little domestic tourism and a lot of international tourism for its size and income. Figure 3 shows international arrivals. North America, Western and Central Europe, Russia and China are the most important destinations. Tropical countries and countries of the Southern Hemisphere receive only a fraction of international tourists. Figure 4 shows the total number of tourists from and in a country. Figure 4 confirms that domestic tourism dominates international tourism, as already seen from Tables 1 and 2. The clear exceptions are Canada and Russia where there are substantially less tourists coming in than going out. Figure 5 shows the share of international tourists from and in a country. People from larger countries are less inclined to take a foreign holiday (but their numbers still add up, see Figure 1), and people in Western and Central Europe are more so inclined. In Africa, West Asia and Latin America, the pattern is more erratic, also because of the interpolation of data, but people from poorer countries are more inclined to take a foreign holiday (as only the very wealthy travel). The share of international in total tourist numbers is higher in Southern Europe and Mexico than elsewhere in Europe and North America. The pattern for Africa, West Asia and Latin America is again more erratic; however, if the majority of the holiday makers from a country go abroad, then the tourism sector within that country is logically dominated by foreign visitors.

Table 3 shows the 25 regions with the highest share in the tourism market. For international tourists, the three most popular destinations are Paris (Ile de France), London and Hong Kong. Other popular cities are Singapore (11th), Venice (Veneto, 12th), New York (13th), Madrid (20th), Macau (22nd) and Mexico City (Distrito Federal, 24th) although cities like Barcelona (in Cataluña, 8th) and Rome (in Lazio, 19th) also attract many tourists. Outside the cities, the Balearic Islands and the Provence are most popular, followed by the Pearl River Delta (Guangdong),¹³ Andalucia, Ontario and Yucatan (Quintana Roo). Tirol (14th) is the most popular mountain destination; Tirol is popular in summer too.

For domestic tourism, the situation is completely different. The top 4 destinations are in the USA (California, Florida, Texas and New York), followed by Sichuan and Beijing in China and Madhya Pradesh in India. The rest of the top 25 is mostly China, India and the USA. As domestic tourism outnumbers international tourism by far, the list of most popular tourist destinations is almost identical to the list of domestic destinations. Paris, number 1 on the list of international tourist destinations, ranks 24th on the all tourists list (and 84th on the domestic list); London ranks 52nd, Hong Kong 83rd.

The regional distribution of tourists is very skewed. For international tourists, the Gini coefficient is 85%, for domestic tourists even 90%; for all tourists, it is 88%.

Figure 6 shows the regional distribution of domestic and international tourists in North America. For domestic tourists, the US and the southern half of Canada are most popular, with California, Florida, New York, Texas and Ontario standing out. For international tourists, the pattern is different. Firstly, Canada and Mexico gain in importance, because there

¹³ Guangdong derives its popularity from its proximity to and ties with Hong Kong (Chow, 1988); it also borders Macau.

are more people from the US travelling to Canada and Mexico than vice versa. Secondly, the US interior attracts almost no international visitors.

Figure 7 shows the regional distribution of domestic and international tourists in Southeast Asia. Java stands out in domestic tourism, while Thailand and Malaysia are more important for international tourism. In Thailand, domestic tourism is spread more or less evenly over the country, whereas international tourists are concentrated in three places.

Figure 8 shows the regional distribution of domestic and international tourists in East Asia. Domestic tourists in China are more or less evenly spread over the eastern half of the country, but avoid the west and the north. International tourists in China are almost all on the seaboard, particularly Guangdong, and in Beijing. Tourist in South Korea prefer the east over the west. Tourists spread evenly over Japan.

Figure 9 shows the regional distribution of domestic and international tourists in Europe. International tourists are concentrated in selected places along the Mediterranean, the southern Alps, and London. Other areas that stand out for being more popular than the surrounding areas include North-Holland (Amsterdam), Hamburg, Berlin, the area around Prague, and the Baltic coast of Poland; the land-locked heart of South-West France stands out for being less popular. Domestic tourists are more evenly spread than are international tourists. The west of England and Wales, the Atlantic coast of France, northern Germany and Bavaria are important destinations for domestic tourists, while Krete, Mallorca and North-Holland hardly feature on the map.

Together, Figures 6-9 show that domestic tourists and international tourists have different preferences. It is no surprise that long distance travellers would expect different things from a holiday than would short distance travellers. In Western Europe, where distances are shorter, travel agencies, advertisements and reputations are likely explanations.

4. Discussion and conclusion

We present a new, global database of domestic and international tourist numbers at the national and subnational level. The database is publicly available¹⁴ and should serve students of tourism, whether in academia, government or business. We also show selected results.

A few results are worth emphasizing. First, domestic tourism is far more important than is international tourism. Second, China, India, Brazil and Indonesia are important tourism markets, surpassing Germany, France and Japan in either supply or demand or both. Third, cities are magnets for international tourists; domestic tourists show considerably less interest. In general, domestic tourists travel to different places than do international tourists. Fourth, the spatial concentration of tourism is very high.

As with any database, the number of caveats is large. International tourism movements are hard to measure, as tourists mix with other travellers, other travellers disguise as tourists, and some borders are easier to cross unnoticed than others. Domestic tourism movements are even harder to track. We relied as much as we could on comprehensive, internationally consistent databases, but had to supplement this data with data from other sources. Even so, there is a fair degree of interpolation in our database. We use data from different years, and had to rescale observations to our base year of 1995.

A number of issues present themselves for future work. Obviously, the database will need to be updated to more recent years when those data become available. At the moment, we

¹⁴ This paper have been submitted to a peer reviewed journal. The website containing the database will be disclosed upon publication of the paper. In the meantime, the interested reader can contact the authors.

present the number of tourists per year. Tourism is seasonal, however, and the quarterly or even monthly numbers would be much more useful. Besides the number of tourists, length of stay, expenditures, and resource use would be good additions, as would be a characterisation of the destinations.

Nonetheless, the database here presented is one of a kind, and hopefully as useful to others as it promises to be to us. Updates, corrections, and additions are more than welcome, under the condition that the data will remain in the public domain.

References

Alberta Advantage (2003), Frequently Requested Alberta Tourism Statistics, Edmonton.

BC Stats (2003), *Tourism Industry Monitor Annual 2002*, British Colombia Ministry of Management Services, Vancouver.

Chow, W.S. (1988), 'Open Policy and Tourism between Guangdong and Hong Kong', *Annals of Tourism Research*, **15**, 205-218.

CIA (2002), *The World Factbook 2002*. Central Intelligence Agency, Washington, D.C. <u>http://www.cia.gov/cia/publications/factbook</u>

Euromonitor (2002), *Global Market Information Database*, http://www.euromonitor.com/gmid/default.asp

FUR (1998), *Die Reiseanalyse RA98*, Forschungsgemeinschaft Urlaub und Reisen / Zentralarchiv für empirische Sozialforschung, Cologne.

Guillore, M. (2004), Tourism officer Economic Mission of the French Embassy in Italy, personal communication, 14th October 2004.

ITA (2004a), *Overseas Visitors to Select US States and Territories*, Office of Travel and Tourism Industries, Department of Commerce, Washington, D.C.

ITA (2004b), *Canadian Visitation to US Census Regions/States for One or More Nights*, Office of Travel and Tourism Industries, Department of Commerce, Washington, D.C.

New, M., Hulme, M. and P.D. Jones, 1999: Representing Twentieth Century Space-Time Climate Variability, Part I: Development of a 1961-1990 Mean Monthly Terrestrial Climatology. *Journal of Climate*, **12**, 829-856.

Nova Scotia Department of Tourism and Culture (2004), Tourism Outlook 2004, Halifax.

Ontario Ministry of Tourism and Recreation (2004), *Person Visits in Ontario*, 2001-2002, Toronto.

Rule, S., J. Struwig, Z. Langa, J. Viljoen and O. Bouare (2001), *South African Domestic Tourism Survey: Marketing the Provinces*, Human Science Research Council, South African Tourism and Department of Environment Affairs and Tourism, Pretoria.

Secretaria de Turismo y Deportes (2003), Cantidad de Plazas en Hoteles, Buenos Aires.

Statistics Canada (2004), Trips by Canadians in Canada, Toronto.

Statistics Sasketchewan (2003), Statistical Yearbook, Regina.

Tourism PEI (2003), *Economic Impact: Tourism 2002*, Tourism Prince Edward Island, Charlottetown.

Tourisme Quebec (2004), *Le Tourisme au Quebec: Bilan 2002 et Resultats Preliminaires 2003*, Tourisme Quebec, Montreal.

US Census Bureau (2002), *Statistical Abstract of the United States : Arts, Entertainment, and Recreation (No. 1238: Domestic Travel Expenditures by State)*, US Census Bureau, Washington, D.C.

Yukon Department of Tourism and Culture (2004), *Yukon Border Crossing Statistics*, Whitehorse.

WRI (2002), World Resources Database 2002-2003. World Resources Institute, Washington, D.C., USA

WTO (2003), Yearbook of Tourism Statistics, World Tourism Organisation, Madrid.

Domestic	e Internationa	l Total	
Country	Number Country	Number Country	Number
United States	999.0 Germany	87.4 United States	1058.5
China	644.0 United States	59.5 China	649.3
India	320.0 United Kingdom	49.1 India	323.6
Brazil	176.2 Russian Federation	25.0 United Kingdom	182.7
United Kingdom	133.6 Malaysia	24.2 Brazil	179.2
Indonesia	107.0 France	21.9 Germany	169.6
Poland	86.7 Canada	21.3 Indonesia	109.1
Germany	82.2 Italy	18.7 Canada	102.3
Canada	80.9 Japan	17.9 France	96.4
Japan	77.8 Hungary	15.3 Japan	95.7

Table 1. Top 10 tourist origins for domestic holidays, international holidays, and all holidays, by tourist numbers (millions).

Domestic	e Internation	al Total	
Country	Number Country	Number Country	Number
United States	999.0 France	60.0 United States	1042.4
China	644.0 United States	43.4 China	664.0
India	320.0 Spain	39.3 India	322.1
Brazil	176.2 Italy	31.1 Brazil	178.2
United Kingdom	133.6 United Kingdom	23.5 United Kingdom	157.1
Indonesia	107.0 Hungary	20.7 France	134.5
Poland	86.7 Mexico	20.2 Indonesia	111.3
Germany	82.2 China	20.0 Poland	105.9
Canada	80.9 Poland	19.2 Canada	97.9
Japan	77.8 Austria	17.2 Germany	97.0

Table 2. Top 10 tourist destinations, per country, for domestic holidays, international holidays, and all holidays, by tourist numbers (millions).

Inter	national	Domestic		Total		
Region	Country	Share Region	Country	Share Region	Country	Share
Île de France	France	3.43 California	United States	3.66 California	United States	3.29
London	United Kingdom	1.88 Florida	United States	2.49 Florida	United States	2.29
Hong Kong	China	1.80 Texas	United States	1.90 Texas	United States	1.66
Illes Balears Provence-Alpes -Côte d'Azur	Spain France	1.71 New York 1.45 Sichuan	United States China	1.71 New York 1.52 Sichuan	United States China	1.62 1.32
Guangdong	China	1.34 Beijing	China	1.48 Beijing	China	1.31
Andalucia	Spain	1.32 Madhya Pradesh	India	1.33 Illinois	United States	1.15
Cataluña	Spain	1.32 Illinois	United States	1.31 Madhya Pradesh	India	1.14
Ontario	Canada	1.22 Jiangsu	China	1.24 Jiangsu	China	1.10
Quintana Roo	Mexico	1.14 Shandong	China	1.23 Shandong	China	1.07
Singapore	Singapore	1.13 Nevada	United States	1.17 Nevada	United States	1.06
Veneto	Italy	1.12 Shanghai	China	1.13 Guangdong	China	1.04
New York	United States	1.10 Zhejiang	China	1.03 Shanghai	China	1.00
Tirol	Austria	1.10 Rajasthan	India	1.02 Zhejiang	China	0.91
Florida	United States	1.02 Guangdong	China	0.99 Rajasthan	India	0.88
California	United States	0.99 Amazonas	Brazil	0.94 Ontario	Canada	0.88
Canarias	Spain	0.86 Maharashtra	India	0.94 Amazonas	Brazil	0.81
Toscana	Italy	0.80 New Jersey	United States	0.90 Maharashtra	India	0.81
Lazio	Italy	0.76 Uttar Pradesh	India	0.88 New Jersey	United States	0.80
Comunidad de Madrid	Spain	0.75 Pennsylvania	United States	0.87 Pennsylvania	United States	0.77
San Marino	San Marino	0.74 Georgia	United States	0.87 Georgia	United States	0.77
Macau	China	0.74 Hubei	China	0.86 Uttar Pradesh	India	0.76
Rhône-Alpes	France	0.73 Andhra Pradesh	India	0.82 Hubei	China	0.75
Distrito Federal	Mexico	0.66 Ontario	Canada	0.82 Île de France	France	0.75
Lombardia	Italy	0.62 Liaoning	China	0.81 Andhra Pradesh	India	0.71

Table 3. Top 25 tourism destinations, per region, for domestic holidays, international holidays, and all holidays, by market share (percentage). *Data in italics are interpolated, not observed*.

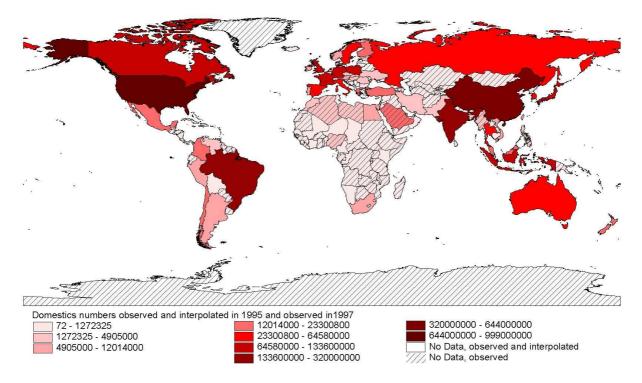


Figure 1. Domestic holidays per country, observed and interpolated (shaded).

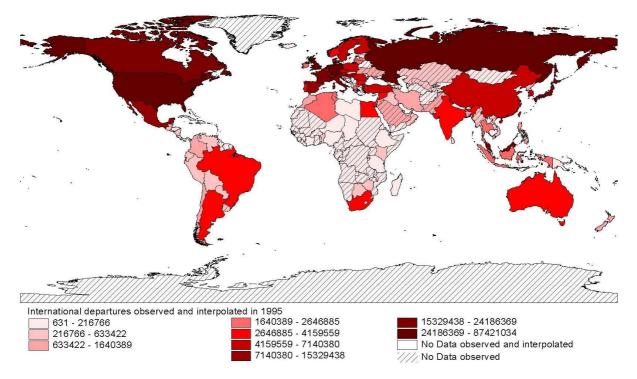


Figure 2. International departures per country, and observed and interpolated (shaded).

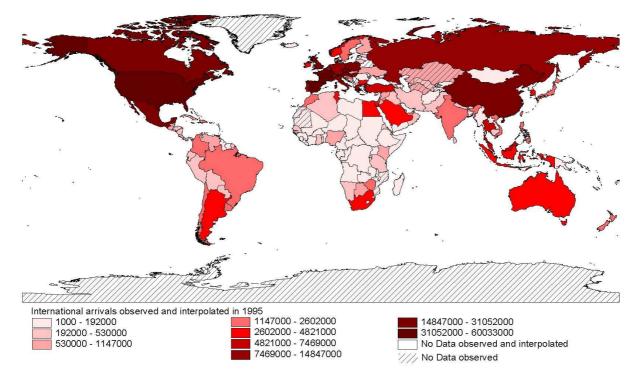


Figure 3. International arrivals per country, observed and interpolated (bottom panel).

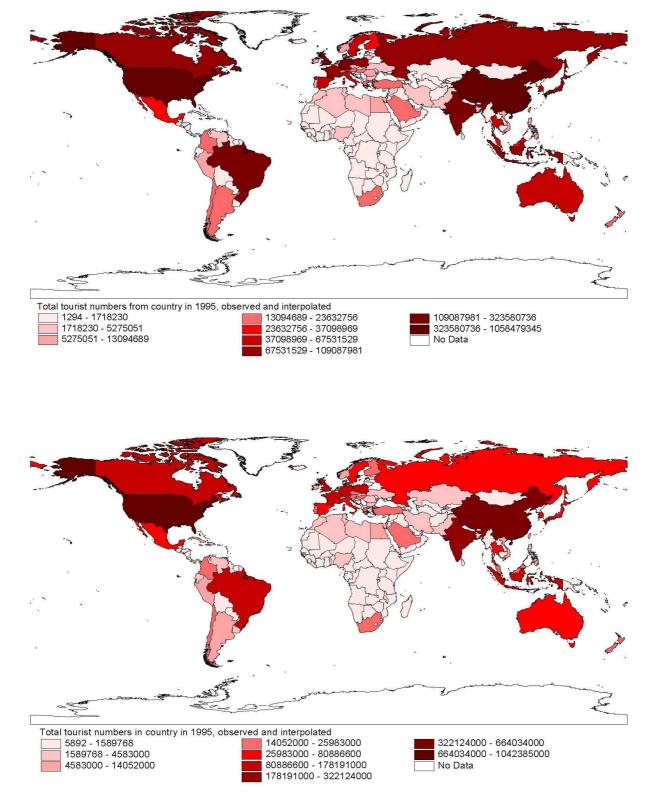


Figure 4. Total number of tourists from a country (top panel) and in a country (bottom panel).

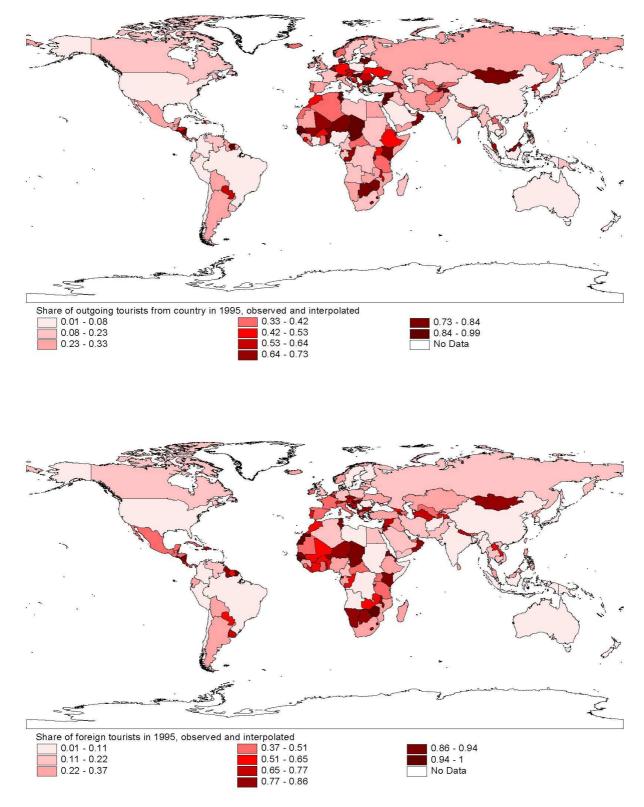


Figure 5. The share of outbound tourists in all tourists from a country (top panel) and the share of international tourists in all tourists in a country (bottom panel).

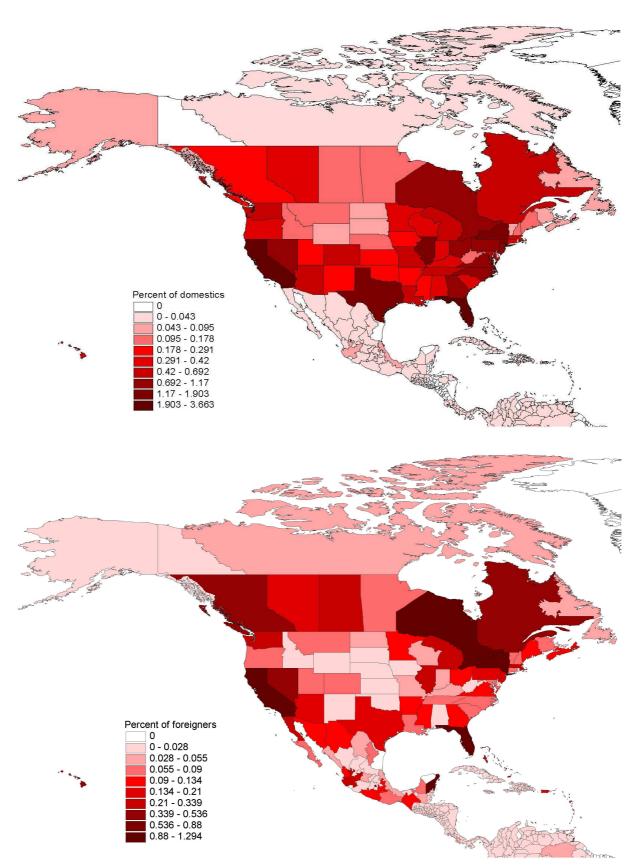


Figure 6. Regional share of tourists in North America, domestic (top panel) and foreign (bottom panel).

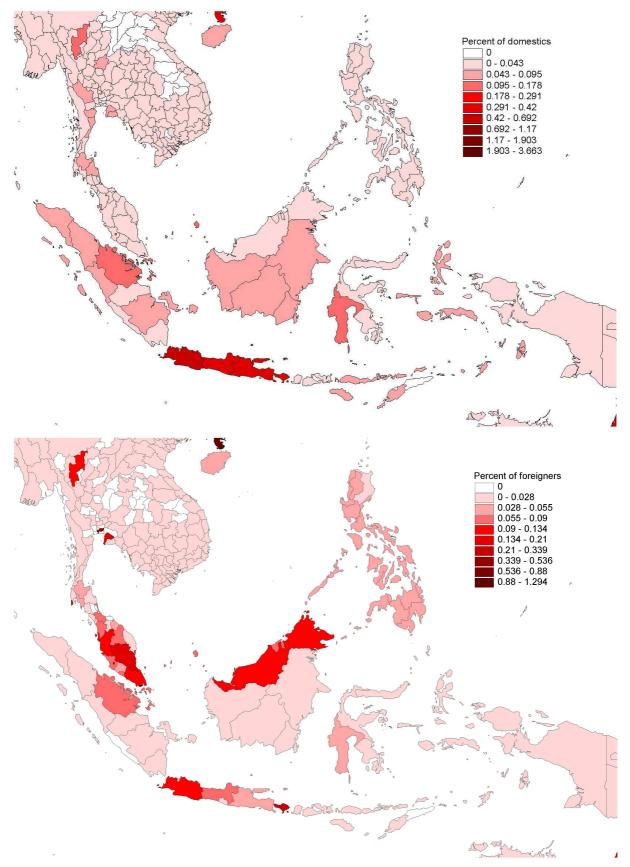


Figure 7. Regional share of tourists in South-East Asia, domestic (top panel) and foreign (bottom panel).

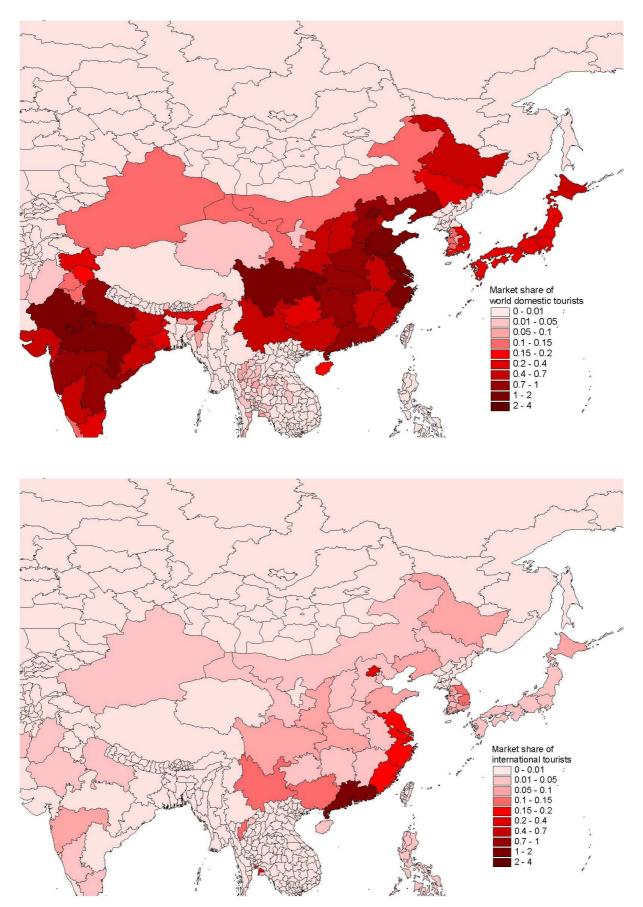


Figure 8. Regional share of tourists in East Asia, domestic (top panel) and foreign (bottom panel).

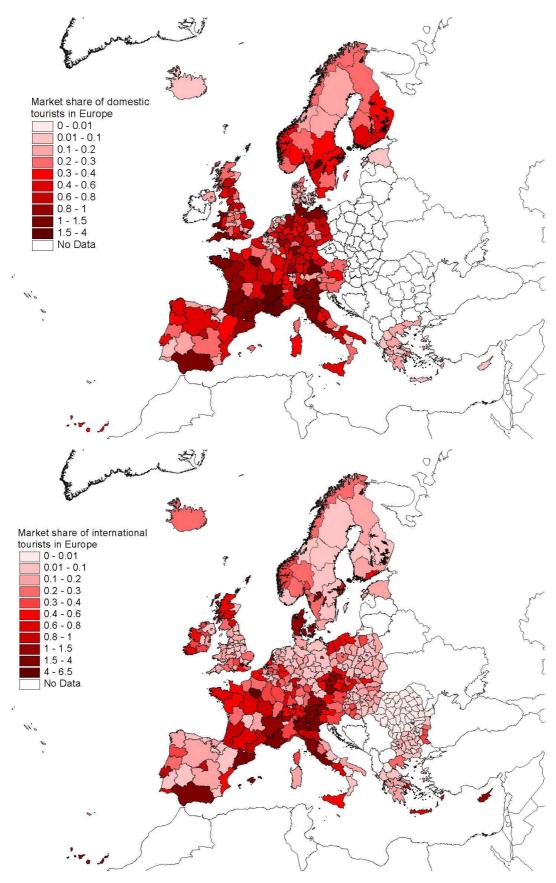


Figure 9. Regional share of tourists in Europe, domestic (top panel) and foreign (bottom panel).

Appendix Data sources

International tourism

WRI, 2002: *World Resources Database 2002-2003*. World Resources Institute, Washington, D.C., USA. http://www.earthtrends.wri.org/

Country	Source	Link	Year
Albania	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Argentina	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Australia	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Austria	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Belgium	Nationaal Instituut voor de Statistiek, Statistiek van Toerisme en Hotelwezen	http://www.statbel.fgov.be/figures/d73_nl.asp#1	1997
Bosnia and Herzegovina	Federal Office of Statistics	http://www.fzs.ba/Podaci/OSNOVNE%20INFORMACIJE%20O%20FEDEng.htm	2001
	Tourism in the Northeast of Brazil, Banco do Nordeste, Fortaleza,		1000
Brazil	Brazil	http://www.bnb.gov.br/english/progturismo/conteudo/pg-06.htm	1998
Bulgaria	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
			2000
Cambodia	Leisure Cambodia	http://www.leisurecambodia.com/Leisure_Cambodia/No.09/phrase_month.htm	2000
Cameroon		http://www.tourism-21.org/f/infos/stats/cameroun.htm	1999
Canada	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Chile China	Euromonitor National Tourism Administration	http://www.euromonitor.com/gmid/default.asp http://www.chinatour.com/data/data.htm	1997 1997
Colombia	El Pais, 14th January 2003	http://elpais-cali.terra.com.co/paisonline/notas/Enero142003/A814N1.html	2002
Cote d'Ivoire	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Croatia	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Cuba	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Cyprus	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Czech Rep	Statistical Office	http://www.czso.cz/eng/figures/9/92/e190899/data/tab4.pdf	1997
Denmark	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Egypt	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Estonia		http://www.hurmaster.ee/eng/tourism1.htm	1997
Fiji	Bureau of Statistics	http://www.statsfiji.gov.fj/f_tourism.html	2001
Finland	Statistics Finland	http://www.mek.fi/web/MekEng/publish.nsf/(PublishedSheets2)/ 6E68D04CECBC7560C2256D750025FACC?openDocument&sheetList=TourismStatistics	2002
France	INSEE - Direction du Tourisme - Partenaires régionaux	http://www.tourisme.gouv.fr/STAT-CONJ/statistiques.htm#hotellerie	2000
	Federal Statistical		
Germany	Office National Tourism	http://www.destatis.de/basis/e/tour/tourtab8.htm	1997
Greece	Organization	http://www.gnto.gr/2/01/eb10012.html	199′

Domestic tourism

Hong Kong	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Hungary	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Iceland	Statistics Iceland	http://www.hagstofa.is/template44.asp?PageID=932	2002
	Express Hotelier &		
India	Caterer (January 6, 2003)	http://www.tourismofindia.com/misc/time.htm	2000
	Tourism Indonesia		
Indonesia	(2003)	http://www.tourismindonesia.com/news/270303.asp	2001
Ireland	Research & Strategic Planning Fáilte Ireland	http://www.failteireland.ie/downloads/Domestic_Brief_2002.doc	1997
Italy	Istituto Nazionale di Statistica- Rilevazione sul movimento nelle strutture ricettive 1999	http://www.istat.it/Comunicati/Fuori-cale/ il-Turiscmo-nel-1999-e-le-aspettativ.htm	1999
	Statistics Bureau of the Ministry of Public Management, Home Affairs, Posts and		
Japan	Telecommunications	http://www.stat.go.jp/english/data/shakai/2.htm	1996
Kenya	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Korea, Rep	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Latvia	Central Statistical Bureau	http://www.csb.lv/Satr/rad/N1a.cfm?akurs03=N1a	1997
Liechtenstein	Amt für Volkswirtschaft / Statistik	http://llvweb.liechtenstein.li/lisite/html/liechtenstein/ index.jsp?treeId=WIRT_en_EN&topicId=0.2.2&sync=true	1995
Lieemenstein	Statistics Lithuania,	index.jsp:ueend=wirk1_en_Eivælopiend=0.2.2æsync=ude	1995
Lithuania	State Border Guard Service, Department of Tourism	http://www.tourism.lt/statist/compendium.htm	1997
Luxembourg	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Macau	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Macedonia	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Malaysia	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
	Euromonitor		
Mali	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Mexico		http://nt.presidencia.gob.mx/Informes/2002Fox2/ website/docs/pdfs/2info_anexo_344-348.pdf	1997
Morocco	Haut Commissariat au Plan, Direction de la Statistique	http://www.statistic.gov.ma/tourisme.htm	2000
	Centraal Bureau voor de Statistiek, Continue Vakantie Onderzoek,		
Netherlands	and Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
New Zealand	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Norway	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Oman	Ministry of Commerce & Industry, Directorate General of Tourism	http://www.mocioman.gov.om/tourism/statistics.html	1997
Pakistan	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Peru	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Philippines	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Poland	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
D 1	Instituto Nacional de		
Portugal	Estatistica Puerto Rico Business Review, (2003) Vol 27	http://www.ine.pt/prodserv/indicadores/quadros.asp?CodInd=56	2 002
	N.4, Government	http://www.gdb-pur.net/Economia/PRBusiness/PRBusinessEsp.htm	2001
Puerto Rico	Development Bank		
	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Puerto Rico Romania Russian Federation	*	http://www.euromonitor.com/gmid/default.asp http://www.euromonitor.com/gmid/default.asp	1997 1997

Slovakia	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Slovenia	Tourism, Hotels and Restaurants Association	http://www.gzs.si/sloexport/ ndefault.asp?MenuID=51&Menu=Tourism%20and%20Catering#stat	1997
South Africa	The Mercury, 13 December 1996	http://www.und.ac.za/und/indic/archives/indicator/winter97/Tdomest.htm	2000
Spain	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Swaziland	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Sweden	Euromonitor Reisemarkt Schweiz, St. Gallen, 1999 and	http://www.euromonitor.com/gmid/default.asp	1997
Switzerland	2000/01	http://old.stnet.ch/marketing/pass/files/Switzerland02.pdf	1998
Taiwan	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Thailand	Tourism Authority	http://www.tat.or.th/stat/web/static_index.php	1997
Tunisia	Central Bank, Annual Report, 2002	http://www.bct.gov.tn/francais/download/report/fiche9.pdf	2000
Turkey	Ministry of Tourism, Accommodation Statistics	http://www.tursab.org.tr/english/profile/domestic.htm	1998
United Arab Emirates	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
United Kingdom	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
United States	Euromonitor	http://www.euromonitor.com/gmid/default.asp	1997
Viet Nam	UNDP Viet Nam Country Office	http://www.undp.org.vn/mlist/develvn/031999/post62.htm	1997

Regional tourism

Country	Source	Year	Notes
Argentina	Secretaria de Turismo y Deportes (2003)	2002	Number of hotel beds
Australia	Bureau of Tourism Research <u>http://www.btr.gov.au/</u>	1996 (international) 1998 (domestic)	International and domestic visitor nights
Austria	EuroStat	1995	Arrivals of residents and non-residents, NUTS2
Belgium	EuroStat	1995	Arrivals of residents and non-residents, NUTS2
Bulgaria	EuroStat	1995	Total arrivals, NUTS3
Canada	Statistics Canada (2004)	1998	Trips
Alberta	Alberta Advantage (2003)	1998	Person trips
Prince Edward Island	Tourism PEI (2003)	1998	Pleasure parties
Nova Scotia	Nova Scotia Department of Tourism and Culture (2004)	2002-3	Non-resident visitation
Quebec	Tourisme Quebec (2004)	2002-3	Number of tourists
Ontario	Ontario Ministry of Tourism and Recreation (2004)	2001-2	Overnight visits
Manitoba	Ryan Schultz, Travel Manitoba, personal communication, 2004	2001-2	Person visits
Sasketchewan	Statistics Sasketchewan (2003)	1998	Purchases of goods and services
British Colombia	BC Stats (2003)	1998	Visitor entries
Yukon, NW Territories, Nunavut	Yukon Department of Tourism and Culture (2004)	1998	Border crossings
Newfoundland	This study	1995	Ratio of international visitors to Canadian visitors assumed equal to that of Quebec
New Brunswick	This study	1995	Ratio of international visitors to Canadian visitors assumed equal to that of Quebec and Nova Scotia averaged
China	China Statistical Yearbook 2002 http://www.stats.gov.cn	2001, 2003	Number of domestic and foreign tourists
Cyprus	EuroStat	1995	Number of beds, NUTS3
Czech Republic	EuroStat	1995	Number of beds, NUTS3
Denmark	EuroStat	1995	Arrivals of residents and non-residents, NUTS3

	-		1
Finland	EuroStat	1995	Arrivals of residents and non-residents, NUTS2
France	EuroStat	1995	Arrivals of residents and non-residents, NUTS2
Germany	EuroStat	1995	Arrivals of residents and
Greece	EuroStat	(Saxony: 1998) 1995	non-residents, NUTS2 Arrivals of residents and
Hungary	EuroStat	1995	non-residents, NUTS2 Number of beds,
India	http://www.directories-today.com/i_tourism.htm	1997	NUTS3 Number of foreign
			tourists; only for the 10 most popular states
Indonesia	Bureau of Planning and Statistics http://www.bps.go.id/sector/tourism/tables.shtml	1998	Number of domestic and foreign hotel guests
Ireland	EuroStat	1995	Number of beds, NUTS3
Italy	EuroStat	1995	Arrivals of residents and non-residents, NUTS2
Japan	Statistics Bureau		Number of employees in all lodging places for domestic tourists, hotels for foreign tourists
Malaysia	http://www.tourism.gov.my/statistic/statistics.asp	2000	Number of domestic and foreign tourists; data for cities and tourist resorts
Mexico	Sectretaria de Turismo http://datatur.sectur.gob.mx/jsp/index.jsp	2003	Number of domestic and foreign tourists; missing data for Colima, Tamaulipas and Yucatan
Netherlands	EuroStat	1994	Arrivals of residents and non-residents, NUTS2
Norway	EuroStat	1995	Arrivals of residents and non-residents, NUTS2
Poland	EuroStat	1995	Number of beds, NUTS3
Portugal	EuroStat	1995	Arrivals of residents and non-residents, NUTS2
Romania	EuroStat	1995	Number of beds, NUTS3
Slovakia	EuroStat	1995	Number of beds, NUTS3
South Africa	Foreign: Statistics South Africa http://www.statssa.gov.za/publications/P6442/P6442December1996.pdf http://www.statssa.gov.za/publications/P6442/P6442January1997.pdf Domestic: Rule <i>et al.</i> (2001)	1995-7	Number of foreign bednights; number of domestic tourism trips
Spain	EuroStat	1995	Arrivals of residents and non-residents, NUTS2
Switzerland	EuroStat	1995, 1998	Arrivals of residents and non-residents, NUTS2
Sweden	EuroStat	1995, 1998	Arrivals of residents and non-residents, NUTS2
Thailand	Tourism Authority of Thailand	2003	Number of domestic and foreign hotel guests
Turkey	http://www.tourismturkey.org/	1997	Number of beds in licensed accommodation establishments by region, downscaled to province
UK	EuroStat	1998	Arrivals of residents and non-residents, NUTS2
USA	ITA (2004a,b), US Census Bureau (2002)	1999	Expenditures by domestic tourists, number of foreign tourists
Other countries	This study	1995	Number of domestic and foreign tourists proportional to the area of the region

NOTE DI LAVORO DELLA FONDAZIONE ENI ENRICO MATTEI

Fondazione Eni Enrico Mattei Working Paper Series

Our Note di Lavoro are available on the Internet at the following addresses:

http://www.feem.it/Feem/Pub/Publications/WPapers/default.html http://www.ssrn.com/link/feem.html

NOTE DI LAVORO PUBLISHED IN 2004

IEM	1.2004	Anil MARKANDYA, Suzette PEDROSO and Alexander GOLUB: Empirical Analysis of National Income and So2 Emissions in Selected European Countries
ETA	2.2004	Masahisa FUJITA and Shlomo WEBER: Strategic Immigration Policies and Welfare in Heterogeneous Countries
PRA	3.2004	Adolfo DI CARLUCCIO, Giovanni FERRI, Cecilia FRALE and Ottavio RICCHI: Do Privatizations Boost Household Shareholding? Evidence from Italy
ETA	4.2004	Victor GINSBURGH and Shlomo WEBER: Languages Disenfranchisement in the European Union
ETA	5.2004	Romano PIRAS: Growth, Congestion of Public Goods, and Second-Best Optimal Policy
CCMP	6.2004	Herman R.J. VOLLEBERGH: Lessons from the Polder: Is Dutch CO2-Taxation Optimal
PRA	7.2004	Sandro BRUSCO, Giuseppe LOPOMO and S. VISWANATHAN (lxv): Merger Mechanisms
		Wolfgang AUSSENEGG, Pegaret PICHLER and Alex STOMPER (lxv): IPO Pricing with Bookbuilding, and a
PRA	8.2004	When-Issued Market
PRA	9.2004	Pegaret PICHLER and Alex STOMPER (lxv): Primary Market Design: Direct Mechanisms and Markets
PRA	10.2004	Florian ENGLMAIER, Pablo GUILLEN, Loreto LLORENTE, Sander ONDERSTAL and Rupert SAUSGRUBER
гла	10.2004	(lxv): The Chopstick Auction: A Study of the Exposure Problem in Multi-Unit Auctions
PRA	11.2004	Bjarne BRENDSTRUP and Harry J. PAARSCH (lxv): Nonparametric Identification and Estimation of Multi-
ГКА	11.2004	Unit, Sequential, Oral, Ascending-Price Auctions With Asymmetric Bidders
PRA	12.2004	Ohad KADAN (lxv): Equilibrium in the Two Player, k-Double Auction with Affiliated Private Values
PRA	13.2004	Maarten C.W. JANSSEN (1xv): Auctions as Coordination Devices
PRA	14.2004	Gadi FIBICH, Arieh GAVIOUS and Aner SELA (lxv): <u>All-Pay Auctions with Weakly Risk-Averse Buyers</u>
	15 2004	Orly SADE, Charles SCHNITZLEIN and Jaime F. ZENDER (lxv): Competition and Cooperation in Divisible
PRA	15.2004	Good Auctions: An Experimental Examination
PRA	16.2004	Marta STRYSZOWSKA (lxv): Late and Multiple Bidding in Competing Second Price Internet Auctions
CCMP	17.2004	Slim Ben YOUSSEF: <u>R&D in Cleaner Technology and International Trade</u>
NRM	18.2004	Angelo ANTOCI, Simone BORGHESI and Paolo RUSSU (lxvi): Biodiversity and Economic Growth:
INKIN	18.2004	Stabilization Versus Preservation of the Ecological Dynamics
SIEV	19.2004	Anna ALBERINI, Paolo ROSATO, Alberto LONGO and Valentina ZANATTA: Information and Willingness to
SIEV	19.2004	Pay in a Contingent Valuation Study: The Value of S. Erasmo in the Lagoon of Venice
NDM	20 2004	Guido CANDELA and Roberto CELLINI (lxvii): Investment in Tourism Market: A Dynamic Model of
NRM	20.2004	Differentiated Oligopoly
NRM	21.2004	Jacqueline M. HAMILTON (lxvii): Climate and the Destination Choice of German Tourists
		Javier Rey-MAQUIEIRA PALMER, Javier LOZANO IBÁÑEZ and Carlos Mario GÓMEZ GÓMEZ (lxvii):
NRM	22.2004	Land, Environmental Externalities and Tourism Development
		Pius ODUNGA and Henk FOLMER (lxvii): Profiling Tourists for Balanced Utilization of Tourism-Based
NRM	23.2004	Resources in Kenya
NRM	24.2004	Jean-Jacques NOWAK, Mondher SAHLI and Pasquale M. SGRO (lxvii): Tourism, Trade and Domestic Welfare
NRM	25.2004	<i>Riaz SHAREEF</i> (lxvii): Country Risk Ratings of Small Island Tourism Economies
INKIVI	25.2004	Juan Luis EUGENIO-MARTÍN, Noelia MARTÍN MORALES and Riccardo SCARPA (Ixvii): Tourism and
NRM	26.2004	Economic Growth in Latin American Countries: A Panel Data Approach
NDM	27.2004	Raúl Hernández MARTÍN (lxvii): Impact of Tourism Consumption on GDP. The Role of Imports
NRM		
CSRM	28.2004	Nicoletta FERRO: Cross-Country Ethical Dilemmas in Business: A Descriptive Framework
NRM	29.2004	Marian WEBER (lxvi): Assessing the Effectiveness of Tradable Landuse Rights for Biodiversity Conservation:
		an Application to Canada's Boreal Mixedwood Forest
NRM	30.2004	Trond BJORNDAL, Phoebe KOUNDOURI and Sean PASCOE (lxvi): Output Substitution in Multi-Species
		Trawl Fisheries: Implications for Quota Setting
CCMP	31.2004	Marzio GALEOTTI, Alessandra GORIA, Paolo MOMBRINI and Evi SPANTIDAKI: Weather Impacts on
conn		Natural, Social and Economic Systems (WISE) Part I: Sectoral Analysis of Climate Impacts in Italy
CCMP	32.2004	Marzio GALEOTTI, Alessandra GORIA, Paolo MOMBRINI and Evi SPANTIDAKI: Weather Impacts on
		Natural, Social and Economic Systems (WISE) Part II: Individual Perception of Climate Extremes in Italy
CTN	33.2004	Wilson PEREZ: Divide and Conquer: Noisy Communication in Networks, Power, and Wealth Distribution
KTHC	34.2004	Gianmarco I.P. OTTAVIANO and Giovanni PERI (lxviii): The Economic Value of Cultural Diversity: Evidence
		from US Cities
KTHC	35.2004	Linda CHAIB (lxviii): Immigration and Local Urban Participatory Democracy: A Boston-Paris Comparison

KTHC	36.2004	<i>Franca ECKERT COEN and Claudio ROSSI</i> (lxviii): <u>Foreigners, Immigrants, Host Cities: The Policies of</u> Multi-Ethnicity in Rome. Reading Governance in a Local Context
	27 2004	Kristine CRANE (lxviii): Governing Migration: Immigrant Groups' Strategies in Three Italian Cities – Rome.
KTHC	37.2004	Naples and Bari
KTHC	38.2004	<i>Kiflemariam HAMDE</i> (lxviii): <u>Mind in Africa, Body in Europe: The Struggle for Maintaining and Transforming</u> Cultural Identity - A Note from the Experience of Eritrean Immigrants in Stockholm
ETA	39.2004	Alberto CAVALIERE: Price Competition with Information Disparities in a Vertically Differentiated Duopoly
PRA	40.2004	Andrea BIGANO and Stef PROOST: <u>The Opening of the European Electricity Market and Environmental</u> Policy: Does the Degree of Competition Matter?
CCMP	41.2004	Micheal FINUS (lxix): International Cooperation to Resolve International Pollution Problems
KTHC	42.2004	Francesco CRESPI: Notes on the Determinants of Innovation: A Multi-Perspective Analysis
CTN	43.2004	Sergio CURRARINI and Marco MARINI: Coalition Formation in Games without Synergies
CTN	44.2004	Marc ESCRIHUELA-VILLAR: Cartel Sustainability and Cartel Stability
NRM	45.2004	Sebastian BERVOETS and Nicolas GRAVEL (lxvi): Appraising Diversity with an Ordinal Notion of Similarity: An Axiomatic Approach
NRM	46.2004	Signe ANTHON and Bo JELLESMARK THORSEN (lxvi): Optimal Afforestation Contracts with Asymmetric Information on Private Environmental Benefits
NRM	47.2004	John MBURU (lxvi): Wildlife Conservation and Management in Kenya: Towards a Co-management Approach
		Ekin BIROL, Ágnes GYOVAI and Melinda SMALE (lxvi): Using a Choice Experiment to Value Agricultural
NRM	48.2004	Biodiversity on Hungarian Small Farms: Agri-Environmental Policies in a Transition al Economy
CCMP	49.2004	Gernot KLEPPER and Sonja PETERSON: The EU Emissions Trading Scheme. Allowance Prices, Trade Flows, Competitiveness Effects
GG	50.2004	Scott BARRETT and Michael HOEL: Optimal Disease Eradication
CTN	51.2004	Dinko DIMITROV, Peter BORM, Ruud HENDRICKX and Shao CHIN SUNG: <u>Simple Priorities and Core</u> <u>Stability in Hedonic Games</u>
SIEV	52.2004	Francesco RICCI: Channels of Transmission of Environmental Policy to Economic Growth: A Survey of the Theory
SIEV	53.2004	Anna ALBERINI, Maureen CROPPER, Alan KRUPNICK and Nathalie B. SIMON: <u>Willingness to Pay for</u> <u>Mortality Risk Reductions: Does Latency Matter?</u> Ingo BRÄUER and Rainer MARGGRAF (lxvi): <u>Valuation of Ecosystem Services Provided by Biodiversity</u>
NRM	54.2004	Conservation: An Integrated Hydrological and Economic Model to Value the Enhanced Nitrogen Retention in Renaturated Streams
NRM	55.2004	<i>Timo GOESCHL and Tun LIN</i> (lxvi): <u>Biodiversity Conservation on Private Lands: Information Problems and</u> Regulatory Choices
NRM	56.2004	Tom DEDEURWAERDERE (lxvi): Bioprospection: From the Economics of Contracts to Reflexive Governance
CCMP	57.2004	Katrin REHDANZ and David MADDISON: The Amenity Value of Climate to German Households
CCMP	58.2004	Koen SMEKENS and Bob VAN DER ZWAAN: Environmental Externalities of Geological Carbon Sequestration Effects on Energy Scenarios
NRM	59.2004	Valentina BOSETTI, Mariaester CASSINELLI and Alessandro LANZA (lxvii): Using Data Envelopment Analysis to Evaluate Environmentally Conscious Tourism Management
NDM	CO 2004	Timo GOESCHL and Danilo CAMARGO IGLIORI (lxvi):Property Rights Conservation and Development: An
NRM	60.2004	Analysis of Extractive Reserves in the Brazilian Amazon Barbara BUCHNER and Carlo CARRARO: Economic and Environmental Effectiveness of a
CCMP	61.2004	Technology-based Climate Protocol
NRM	62.2004	Elissaios PAPYRAKIS and Reyer GERLAGH: <u>Resource-Abundance and Economic Growth in the U.S.</u>
NRM	63.2004	<i>Györgyi BELA, György PATAKI, Melinda SMALE and Mariann HAJDÚ</i> (lxvi): <u>Conserving Crop Genetic</u> <u>Resources on Smallholder Farms in Hungary: Institutional Analysis</u>
NRM	64.2004	E.C.M. RUIJGROK and E.E.M. NILLESEN (lxvi): <u>The Socio-Economic Value of Natural Riverbanks in the</u> Netherlands
NRM	65.2004	<i>E.C.M. RUIJGROK</i> (lxvi): <u>Reducing Acidification: The Benefits of Increased Nature Quality. Investigating the</u> Possibilities of the Contingent Valuation Method
ETA	66.2004	Giannis VARDAS and Anastasios XEPAPADEAS: Uncertainty Aversion, Robust Control and Asset Holdings
GG	67.2004	Anastasios XEPAPADEAS and Constadina PASSA: Participation in and Compliance with Public Voluntary Environmental Programs: An Evolutionary Approach
GG	68.2004	Michael FINUS: Modesty Pays: Sometimes!
NRM	69.2004	<i>Trond BJØRNDAL and Ana BRASÃO</i> : <u>The Northern Atlantic Bluefin Tuna Fisheries</u> : <u>Management and Policy</u> <u>Implications</u>
CTN	70.2004	Alejandro CAPARRÓS, Abdelhakim HAMMOUDI and Tarik TAZDAÏT: On Coalition Formation with Heterogeneous Agents
IEM	71.2004	Massimo GIOVANNINI, Margherita GRASSO, Alessandro LANZA and Matteo MANERA: Conditional
IEM	72.2004	Correlations in the Returns on Oil Companies Stock Prices and Their Determinants Alessandro LANZA, Matteo MANERA and Michael MCALEER: Modelling Dynamic Conditional Correlations
		in WTI Oil Forward and Futures Returns Margarita GENIUS and Elisabetta STRAZZERA: The Copula Approach to Sample Selection Modelling:
SIEV	73.2004	An Application to the Recreational Value of Forests

CCMP	74.2004	Rob DELLINK and Ekko van IERLAND: Pollution Abatement in the Netherlands: A Dynamic Applied General
ETA	75.2004	<u>Equilibrium Assessment</u> Rosella LEVAGGI and Michele MORETTO: <u>Investment in Hospital Care Technology under Different</u>
CTN	76.2004	Purchasing Rules: A Real Option Approach Salvador BARBERÀ and Matthew O. JACKSON (lxx): On the Weights of Nations: Assigning Voting Weights in
CTN	77 2004	<u>a Heterogeneous Union</u> Àlex ARENAS, Antonio CABRALES, Albert DÍAZ-GUILERA, Roger GUIMERÀ and Fernando VEGA-
CTN	77.2004	REDONDO (lxx): Optimal Information Transmission in Organizations: Search and Congestion
CTN	78.2004	Francis BLOCH and Armando GOMES (lxx): <u>Contracting with Externalities and Outside Options</u> Rabah AMIR, Effrosyni DIAMANTOUDI and Licun XUE (lxx): <u>Merger Performance under Uncertain Efficiency</u>
CTN	79.2004	Gains
CTN CTN	80.2004 81.2004	Francis BLOCH and Matthew O. JACKSON (lxx): <u>The Formation of Networks with Transfers among Players</u> Daniel DIERMEIER, Hülya ERASLAN and Antonio MERLO (lxx): <u>Bicameralism and Government Formation</u>
CTN	82.2004	Rod GARRATT, James E. PARCO, Cheng-ZHONG QIN and Amnon RAPOPORT (lxx): <u>Potential Maximization</u> and Coalition Government Formation
CTN	83.2004	Kfir ELIAZ, Debraj RAY and Ronny RAZIN (lxx): Group Decision-Making in the Shadow of Disagreement
CTN	84.2004	Sanjeev GOYAL, Marco van der LEIJ and José Luis MORAGA-GONZÁLEZ (lxx): <u>Economics: An Emerging</u> Small World?
CTN	85.2004	Edward CARTWRIGHT (lxx): Learning to Play Approximate Nash Equilibria in Games with Many Players
IEM	86.2004	Finn R. FØRSUND and Michael HOEL: Properties of a Non-Competitive Electricity Market Dominated by
KTHC	87.2004	<u>Hydroelectric Power</u> Elissaios PAPYRAKIS and Reyer GERLAGH: <u>Natural Resources</u> , Investment and Long-Term Income
CCMP	88.2004	Marzio GALEOTTI and Claudia KEMFERT: Interactions between Climate and Trade Policies: A Survey
IEM	89.2004	A. MARKANDYA, S. PEDROSO and D. STREIMIKIENE: Energy Efficiency in Transition Economies: Is There Convergence Towards the EU Average?
GG	90.2004	Rolf GOLOMBEK and Michael HOEL: Climate Agreements and Technology Policy
PRA	91.2004	Sergei IZMALKOV (lxv): Multi-Unit Open Ascending Price Efficient Auction
KTHC	92.2004	Gianmarco I.P. OTTAVIANO and Giovanni PERI: <u>Cities and Cultures</u>
KTHC	93.2004	Massimo DEL GATTO: Agglomeration, Integration, and Territorial Authority Scale in a System of Trading Cities. Centralisation versus devolution
CCMP	94.2004	Pierre-André JOUVET, Philippe MICHEL and Gilles ROTILLON: Equilibrium with a Market of Permits
CCMP	95.2004	Bob van der ZWAAN and Reyer GERLAGH: Climate Uncertainty and the Necessity to Transform Global Energy Supply
CCMP	96.2004	<i>Francesco BOSELLO, Marco LAZZARIN, Roberto ROSON and Richard S.J. TOL</i> : <u>Economy-Wide Estimates of</u> <u>the Implications of Climate Change: Sea Level Rise</u>
CTN	97.2004	Gustavo BERGANTIÑOS and Juan J. VIDAL-PUGA: Defining Rules in Cost Spanning Tree Problems Through the Canonical Form
CTN	98.2004	Siddhartha BANDYOPADHYAY and Mandar OAK: Party Formation and Coalitional Bargaining in a Model of Proportional Representation
GG	99.2004	Hans-Peter WEIKARD, Michael FINUS and Juan-Carlos ALTAMIRANO-CABRERA: <u>The Impact of Surplus</u> Sharing on the Stability of International Climate Agreements
SIEV	100.2004	<i>Chiara M. TRAVISI and Peter NIJKAMP</i> : <u>Willingness to Pay for Agricultural Environmental Safety: Evidence</u> from a Survey of Milan, Italy, Residents
SIEV	101.2004	Chiara M. TRAVISI, Raymond J. G. M. FLORAX and Peter NIJKAMP: A Meta-Analysis of the Willingness to
NRM	102.2004	Pay for Reductions in Pesticide Risk Exposure Valentina BOSETTI and David TOMBERLIN: Real Options Analysis of Fishing Fleet Dynamics: A Test
CCMP	103.2004	Alessandra GORIA e Gretel GAMBARELLI: Economic Evaluation of Climate Change Impacts and Adaptability in Italy
PRA	104.2004	Massimo FLORIO and Mara GRASSENI: The Missing Shock: The Macroeconomic Impact of British
		<u>Privatisation</u> John BENNETT, Saul ESTRIN, James MAW and Giovanni URGA: <u>Privatisation Methods and Economic Growth</u>
PRA	105.2004	in Transition Economies
PRA PRA	106.2004 107.2004	Kira BÖRNER: The Political Economy of Privatization: Why Do Governments Want Reforms? Pehr-Johan NORBÄCK and Lars PERSSON: Privatization and Restructuring in Concentrated Markets
SIEV	108.2004	Angela GRANZOTTO, Fabio PRANOVI, Simone LIBRALATO, Patrizia TORRICELLI and Danilo MAINARDI: Comparison between Artisanal Fishery and Manila Clam Harvesting in the Venice Lagoon by
SIL V	100.2004	Using Ecosystem Indicators: An Ecological Economics Perspective
CTN	109.2004	Somdeb LAHIRI: <u>The Cooperative Theory of Two Sided Matching Problems: A Re-examination of Some</u> Results
NRM	110.2004	Giuseppe DI VITA: Natural Resources Dynamics: Another Look
SIEV	111.2004	Anna ALBERINI, Alistair HUNT and Anil MARKANDYA: Willingness to Pay to Reduce Mortality Risks: Evidence from a Three-Country Contingent Valuation Study
KTHC	112.2004	Valeria PAPPONETTI and Dino PINELLI: Scientific Advice to Public Policy-Making
SIEV	113.2004	Paulo A.L.D. NUNES and Laura ONOFRI: The Economics of Warm Glow: A Note on Consumer's Behavior and Public Policy Implications
IEM	114.2004	Patrick CAYRADE: Investments in Gas Pipelines and Liquefied Natural Gas Infrastructure What is the Impact
IEM	115.2004	on the Security of Supply? Valeria COSTANTINI and Francesco GRACCEVA: Oil Security. Short- and Long-Term Policies

IEM	116.2004	Valeria COSTANTINI and Francesco GRACCEVA: <u>Social Costs of Energy Disruptions</u> Christian EGENHOFER, Kyriakos GIALOGLOU, Giacomo LUCIANI, Maroeska BOOTS, Martin SCHEEPERS,
IEM	117.2004	Valeria COSTANTINI, Francesco GRACCEVA, Anil MARKANDYA and Giorgio VICINI: <u>Market-Based Options</u> for Security of Energy Supply
IEM	118.2004	David FISK: Transport Energy Security. The Unseen Risk?
IEM	119.2004	<i>Giacomo LUCIANI</i> : Security of Supply for Natural Gas Markets. What is it and What is it not?
IEM	120.2004	L.J. de VRIES and R.A. HAKVOORT: The Question of Generation Adequacy in Liberalised Electricity Markets
KTHC	121.2004	Alberto PETRUCCI: Asset Accumulation, Fertility Choice and Nondegenerate Dynamics in a Small Open
KIHC	121.2004	Economy
NRM	122.2004	Carlo GIUPPONI, Jaroslaw MYSIAK and Anita FASSIO: <u>An Integrated Assessment Framework for Water</u> <u>Resources Management: A DSS Tool and a Pilot Study Application</u>
	100 000 1	Margaretha BREIL, Anita FASSIO, Carlo GIUPPONI and Paolo ROSATO: Evaluation of Urban Improvement
NRM	123.2004	on the Islands of the Venice Lagoon: A Spatially-Distributed Hedonic-Hierarchical Approach
ETA	124.2004	Paul MENSINK: Instant Efficient Pollution Abatement Under Non-Linear Taxation and Asymmetric Information: The Differential Tax Revisited
	105 000 4	Mauro FABIANO, Gabriella CAMARSA, Rosanna DURSI, Roberta IVALDI, Valentina MARIN and Francesca
NRM	125.2004	PALMISANI: Integrated Environmental Study for Beach Management: A Methodological Approach
PRA	126.2004	Irena GROSFELD and Iraj HASHI: The Emergence of Large Shareholders in Mass Privatized Firms: Evidence from Poland and the Czech Republic
CCMP	127.2004	Maria BERRITTELLA, Andrea BIGANO, Roberto ROSON and Richard S.J. TOL: <u>A General Equilibrium</u> Analysis of Climate Change Impacts on Tourism
CCM	100 0004	Reyer GERLAGH: A Climate-Change Policy Induced Shift from Innovations in Energy Production to Energy
CCMP	128.2004	Savings
NRM	129.2004	Elissaios PAPYRAKIS and Reyer GERLAGH: Natural Resources, Innovation, and Growth
PRA	130.2004	Bernardo BORTOLOTTI and Mara FACCIO: Reluctant Privatization
SIEV	131.2004	Riccardo SCARPA and Mara THIENE: Destination Choice Models for Rock Climbing in the Northeast Alps: A
		Latent-Class Approach Based on Intensity of Participation
SIEV	132.2004	Riccardo SCARPA Kenneth G. WILLIS and Melinda ACUTT: Comparing Individual-Specific Benefit Estimates
IEM	133.2004	for Public Goods: Finite Versus Continuous Mixing in Logit Models Santiago J. RUBIO: On Capturing Oil Rents with a National Excise Tax Revisited
ETA	133.2004	Ascensión ANDINA DÍAZ: Political Competition when Media Create Candidates' Charisma
SIEV	135.2004	Anna ALBERINI: Robustness of VSL Values from Contingent Valuation Surveys
		Gernot KLEPPER and Sonja PETERSON: Marginal Abatement Cost Curves in General Equilibrium: The
CCMP	136.2004	Influence of World Energy Prices
ETA	127 2004	Herbert DAWID, Christophe DEISSENBERG and Pavel ŠEVČIK: Cheap Talk, Gullibility, and Welfare in an
ETA	137.2004	Environmental Taxation Game
CCMP	138.2004	ZhongXiang ZHANG: The World Bank's Prototype Carbon Fund and China
CCMP	139.2004	Reyer GERLAGH and Marjan W. HOFKES: <u>Time Profile of Climate Change Stabilization Policy</u>
NRM	140.2004	Chiara D'ALPAOS and Michele MORETTO: The Value of Flexibility in the Italian Water Service Sector: A
	1 4 1 2 0 0 4	Real Option Analysis Patrick BAJARI, Stephanie HOUGHTON and Steven TADELIS (lxxi): Bidding for Incompete Contracts
PRA	141.2004	
PRA	142.2004	Susan ATHEY, Jonathan LEVIN and Enrique SEIRA (lxxi): Comparing Open and Sealed Bid Auctions: Theory and Evidence from Timber Auctions
PRA	143.2004	David GOLDREICH (lxxi): Behavioral Biases of Dealers in U.S. Treasury Auctions
PRA	144.2004	<i>Roberto BURGUET</i> (lxxi): <u>Optimal Procurement Auction for a Buyer with Downward Sloping Demand: More</u> <u>Simple Economics</u>
	145 2004	Ali HORTACSU and Samita SAREEN (lxxi): Order Flow and the Formation of Dealer Bids: An Analysis of
PRA	145.2004	Information and Strategic Behavior in the Government of Canada Securities Auctions
PRA	146.2004	<i>Victor GINSBURGH, Patrick LEGROS and Nicolas SAHUGUET</i> (lxxi): <u>How to Win Twice at an Auction. On</u> the Incidence of Commissions in Auction Markets
PRA	147.2004	Claudio MEZZETTI, Aleksandar PEKEČ and Ilia TSETLIN (lxxi): Sequential vs. Single-Round Uniform-Price Auctions
PRA	148.2004	John ASKER and Estelle CANTILLON (Ixxi): Equilibrium of Scoring Auctions
PRA	149.2004	Philip A. HAILE, Han HONG and Matthew SHUM (lxxi): Nonparametric Tests for Common Values in First-
IKA	149.2004	Price Sealed-Bid Auctions
PRA	150.2004	<i>François DEGEORGE, François DERRIEN and Kent L. WOMACK</i> (lxxi): <u>Quid Pro Quo in IPOs: Why</u> <u>Bookbuilding is Dominating Auctions</u>
		Barbara BUCHNER and Silvia DALL'OLIO: Russia: The Long Road to Ratification. Internal Institution and
CCMP	151.2004	Pressure Groups in the Kyoto Protocol's Adoption Process
CCMP	152.2004	Carlo CARRARO and Marzio GALEOTTI: Does Endogenous Technical Change Make a Difference in Climate Policy Analysis? A Robustness Exercise with the FEEM-RICE Model
	150 000 1	Alejandro M. MANELLI and Daniel R. VINCENT (lxxi): <u>Multidimensional Mechanism Design: Revenue</u>
PRA	153.2004	Maximization and the Multiple-Good Monopoly
ETA	154.2004	Nicola ACOCELLA, Giovanni Di BARTOLOMEO and Wilfried PAUWELS: Is there any Scope for Corporatism
EIA	134.2004	in Stabilization Policies?
CTN	154.2004	Johan EYCKMANS and Michael FINUS: <u>An Almost Ideal Sharing Scheme for Coalition Games with</u> Externalities
CCMP	156.2004	Cesare DOSI and Michele MORETTO: Environmental Innovation, War of Attrition and Investment Grants

CCMP	157.2004	Valentina BOSETTI, Marzio GALEOTTI and Alessandro LANZA: How Consistent are Alternative Short-Term
		Climate Policies with Long-Term Goals?
ETA	158.2004	Y. Hossein FARZIN and Ken-Ichi AKAO: Non-pecuniary Value of Employment and Individual
		Labor Supply
ETA	159.2004	William BROCK and Anastasios XEPAPADEAS: Spatial Analysis: Development of Descriptive and Normative
		Methods with Applications to Economic-Ecological Modelling
KTHC	160.2004	Alberto PETRUCCI: On the Incidence of a Tax on PureRent with Infinite Horizons
IEM	161.2004	Xavier LABANDEIRA, José M. LABEAGA and Miguel RODRÍGUEZ: Microsimulating the Effects of Household
		Energy Price Changes in Spain

NOTE DI LAVORO PUBLISHED IN 2005

CCMP	1.2005	Stéphane HALLEGATTE: Accounting for Extreme Events in the Economic Assessment of Climate Change
CCMP	2.2005	Qiang WU and Paulo Augusto NUNES: Application of Technological Control Measures on Vehicle Pollution: A
		Cost-Benefit Analysis in China
CCMP	3.2005	Andrea BIGANO, Jacqueline M. HAMILTON, Maren LAU, Richard S.J. TOL and Yuan ZHOU: <u>A Global</u>
		Database of Domestic and International Tourist Numbers at National and Subnational Level

(lxv) This paper was presented at the EuroConference on "Auctions and Market Design: Theory, Evidence and Applications" organised by Fondazione Eni Enrico Mattei and sponsored by the EU, Milan, September 25-27, 2003

(lxvi) This paper has been presented at the 4th BioEcon Workshop on "Economic Analysis of Policies for Biodiversity Conservation" organised on behalf of the BIOECON Network by Fondazione Eni Enrico Mattei, Venice International University (VIU) and University College London (UCL), Venice, August 28-29, 2003

(lxvii) This paper has been presented at the international conference on "Tourism and Sustainable Economic Development – Macro and Micro Economic Issues" jointly organised by CRENoS (Università di Cagliari e Sassari, Italy) and Fondazione Eni Enrico Mattei, and supported by the World Bank, Sardinia, September 19-20, 2003

(lxviii) This paper was presented at the ENGIME Workshop on "Governance and Policies in Multicultural Cities", Rome, June 5-6, 2003

(lxix) This paper was presented at the Fourth EEP Plenary Workshop and EEP Conference "The Future of Climate Policy", Cagliari, Italy, 27-28 March 2003 (lxx) This paper was presented at the 9th Coalition Theory Workshop on "Collective Decisions and

(lxx) This paper was presented at the 9th Coalition Theory Workshop on "Collective Decisions and Institutional Design" organised by the Universitat Autònoma de Barcelona and held in Barcelona, Spain, January 30-31, 2004

(lxxi) This paper was presented at the EuroConference on "Auctions and Market Design: Theory,

Evidence and Applications", organised by Fondazione Eni Enrico Mattei and Consip and sponsored by the EU, Rome, September 23-25, 2004

	2004 SERIES
ССМР	Climate Change Modelling and Policy (Editor: Marzio Galeotti)
GG	Global Governance (Editor: Carlo Carraro)
SIEV	Sustainability Indicators and Environmental Valuation (Editor: Anna Alberini)
NRM	Natural Resources Management (Editor: Carlo Giupponi)
КТНС	Knowledge, Technology, Human Capital (Editor: Gianmarco Ottaviano)
IEM	International Energy Markets (Editor: Anil Markandya)
CSRM	Corporate Social Responsibility and Sustainable Management (Editor: Sabina Ratti)
PRA	Privatisation, Regulation, Antitrust (Editor: Bernardo Bortolotti)
ЕТА	Economic Theory and Applications (Editor: Carlo Carraro)
CTN	Coalition Theory Network

	2005 SERIES
ССМР	Climate Change Modelling and Policy (Editor: Marzio Galeotti)
SIEV	Sustainability Indicators and Environmental Valuation (Editor: Anna Alberini)
NRM	Natural Resources Management (Editor: Carlo Giupponi)
КТНС	Knowledge, Technology, Human Capital (Editor: Gianmarco Ottaviano)
IEM	International Energy Markets (Editor: Anil Markandya)
CSRM	Corporate Social Responsibility and Sustainable Management (Editor: Sabina Ratti)
PRCG	Privatisation Regulation Corporate Governance (Editor: Bernardo Bortolotti)
ЕТА	Economic Theory and Applications (Editor: Carlo Carraro)
CTN	Coalition Theory Network