Towards the “greening” Tourism Satellite Account. Mexican proposal

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Linkage among the satellite accounts

Satellite accounts of Mexico

• Non-Profit Institutions
• Unpaid Work of Households
• Housing
• Health
• Culture
• Tourism
• Environment

AIM: To generate statistics that allow analyze the links between the economic activity of tourism and culture among the environmental boundary” and using accounting tools of the Tourism and Environmental satellite accounts
The uses of valuation the sustainable tourism

**Aligned to Sustainable Development Goals (SDG’s)**

- **Target 8.9.** By 2030, devise and implement policies to promote **sustainable tourism** that creates jobs and promotes local culture and products.

- **Target 12b.** Develop and implement tools to monitor sustainable development impacts for **sustainable tourism** that creates jobs and promotes local culture and products.

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Using international recommendations

**Experimental Ecosystem Accounting (SEEA-EEA)**

Measurement ecosystems and their services to the economy and other human activities

- **Ecosystem services:**
  - Provisioning
  - Regulation
  - **Cultural/recreational**

“Services that are generated from the physical settings, places or situations that give rise to intellectual and symbolic benefits through **recreation**, development of knowledge, relaxation and spiritual reflection. This could be visits an **archaeological area**, enjoying the ecosystem indirectly...
The research could show us two ways:

1. [Image] + [Image] + [Image] = TOURISM PRODUCTION ACCOUNT AT PNA

2. [Image] + [Image] + [Image] = TOURISM PRODUCTION ACCOUNT AT PNA

PNA: Protected Natural Area

Route 1
Route 1: Protected Natural Areas

Route 1: Protected Natural Areas & Tourism AGEB
Route 1: Protected Natural Areas & Tourism AGEB.

Example 1

Route 1: Protected Natural Areas & Tourism AGEB.

Example 2
Example 2: Protected Natural Areas
National Park Cozumel Reefs

Example 2: Protected Natural Areas
National Park Cozumel Reefs

PNA National Park Cozumel Reefs
Example 2: Protected Natural Areas and Tourism AGEB
National Park Cozumel Reefs

Example 2: Buffer of 5km from the PNA
National Park Cozumel Reefs
### Example 2. Establishments which provide services to visitors

**National Park Cozumel Reefs**

- **Travel agencies**
- **Sightseeing transportation by water**
- **Port and harbor management**
- **Hotels with other integrated services**
- **Hotels without other integrated services**
- **Restaurants, nightclubs and bars**
- **Others**

### Establishments which provide services to visitors

**National Park Cozumel Reefs**

**NATIONAL PARK COZUMEL REEFS (BUFFER 5KM)**

Census Gross Domestic Product

2014

<table>
<thead>
<tr>
<th>Number of establishments</th>
<th>DESCRIPTION</th>
<th>Millions of mexican pesos</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,349</td>
<td>TOTAL</td>
<td>650,355</td>
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<tr>
<td>2</td>
<td>Sightseeing transportation by water</td>
<td>8,609</td>
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<td>2</td>
<td>Port and harbor management</td>
<td>18,856</td>
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<td>12</td>
<td>Travel agencies</td>
<td>30,299</td>
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<td>14</td>
<td>Hotels with other integrated services</td>
<td>90,746</td>
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<td>29</td>
<td>Hotels without other integrated services</td>
<td>11,150</td>
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<tr>
<td>39</td>
<td>Restaurants, nightclubs and bars</td>
<td>18,748</td>
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<tr>
<td>96</td>
<td>Restaurants with food preparation services from customer order or family restaurant</td>
<td>61,466</td>
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<tr>
<td>1,155</td>
<td>Others</td>
<td>410,481</td>
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</table>
Other researching fields

a) SEEA-CF

Tourism impact on environment
Environmental Protection Expenditures
Green jobs
Environmental goods and services
Depletion and environmental degradation

b) SEEA-EEA

Ecosystem extension
Ecosystem condition
Supply and use
Valuation of cultural and recreational ecosystems services

Example of economic valuation of the service nature tourism

<table>
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<tr>
<th>PNA</th>
<th>Tourism AGEBs gross operating surplus (thousand of Mexican pesos)</th>
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<tbody>
<tr>
<td>BR EL VIZCAINO</td>
<td>386,973</td>
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<tr>
<td>BR MONARCA BUTTERFLY</td>
<td>350,897</td>
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<td>NP COZUMEL REEFS</td>
<td></td>
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<tr>
<td>NP WEST COAST, ISLA MUJERES, PUNTA CANCUN &amp; PUNTA NIZUC</td>
<td>610,345</td>
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Source: Internal paper with information to SCNM and Economic Census 2014
### Tourism GDP environmentally adjusted

<table>
<thead>
<tr>
<th>YEAR</th>
<th>NATIONAL GDP*</th>
<th>TOURISM GDP*</th>
<th>TCDD*</th>
<th>TGDP/GDP (%)</th>
<th>TGDPa/GDP (%)</th>
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<tbody>
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<td>2003</td>
<td>7,302,821</td>
<td>695,061</td>
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<td>2004</td>
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<td>785,169</td>
<td>87,268</td>
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<td>2005</td>
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<td>836,245</td>
<td>89,590</td>
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<td>2006</td>
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<td>917,595</td>
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<td>1,028,907</td>
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<td>1,028,907</td>
<td>108,817</td>
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<td>2012</td>
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<td>1,267,939</td>
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<td>2013</td>
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<td>1,335,295</td>
<td>120,207</td>
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<td>7.9</td>
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<td>1,394,210</td>
<td>116,835</td>
<td>8.5</td>
<td>7.8</td>
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*Figures in thousand of mexican pesos

**Simulated data**

### Next steps

- Estimation of the contribution of the 177 NPA to tourism.
- Estimation of the environmental costs associated to tourism activities into the NPA (waste generation, wastewater discharges, air emissions, water consumption, ...).