



3<sup>rd</sup> High Level Seminar on Environmentally Sustainable Cities  
(3<sup>rd</sup> HLS ESC) 6-8/3/12 - Siem Reap, Cambodia

# CLIMATE CHANGE IN CANTHO CITY AND MEKONG DELTA - STATUS AND ABILITY TO COPE

## Contents

1. CANTHO DISASTER, CLIMATE CHANGE
2. RISK-CLIMATE CHANGE MANAGEMENT
3. LOCAL NEEDS.

Master Kỳ Quang Vinh  
Can Tho Climate Change Coordination Office (CCCCO)





## 1. CAN THO

- ❑ Very low and flat terrain, dense network of rivers & Canals
- ❑ Ground subsidence due to over-extraction of groundwater
- ❑ The highest temperature is 33°C on average
- ❑ MR flood + rain + tide = flooding (July to November)
- ❑ Northern is Mekong river flooding zone, Southern is east sea tides zone.
- ❑ People: Urban 790,000 and Rural 410,000, 0.81 million labors
- ❑ Product: rice, aqua products and fruit,
- ❑ GDP: 2.35 Bil USD, per capita: 1,944 USD



## 1. CAN THO-NATURAL DISASTERS

### Main Disasters:

- Flood
- Rivers shore erosion,
- Tornado storm,
- Thunder



### DISASTER CONSEQUENCE 1996 - 2008:

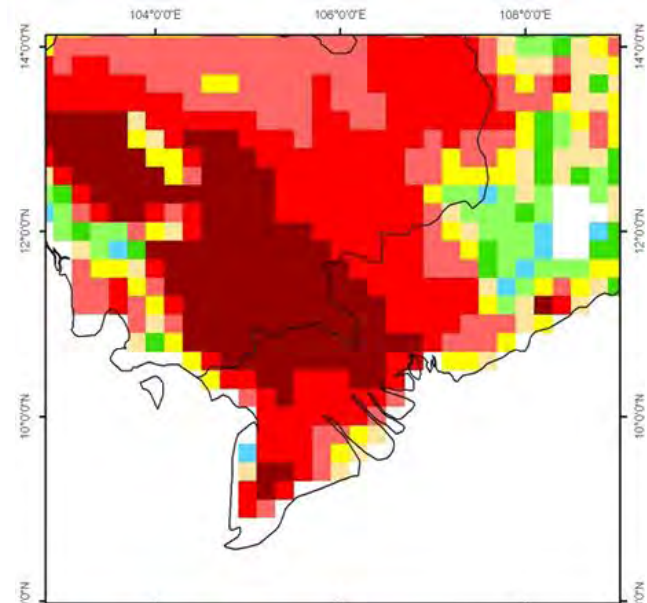
- 123 people killed
- 365 000 inundated houses, (max 136 000 in 1996)
- 1597 inundated schools, (max 560 in 2000)
- 7 000 km of inundated roads, (max 2 221 in 1996)
- 104 000 ha of inundated paddy, (max 29 500 in 1998)

### DISASTER DAMAGE 2011:

- Inundation: 2 times, USD \$ 11,328,428
- Riverbank erosion: 12 sites, USD \$ 169,761
- Tornado: 39 sites, USD \$ 69,100
- Killed by thunder and inundation: 12 people

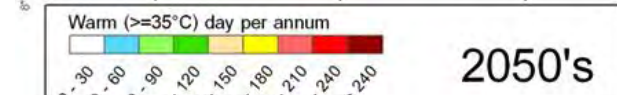
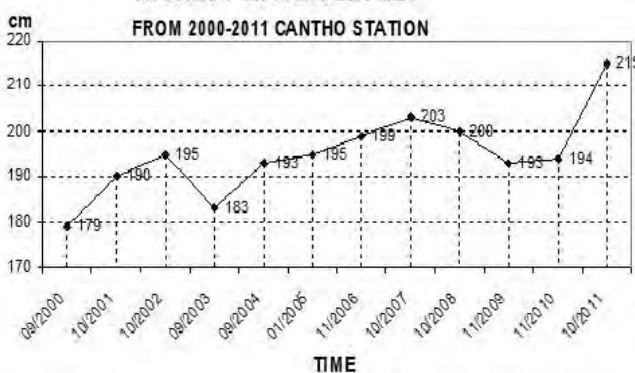


## 1. CAN THO CLIMATE CHANGE

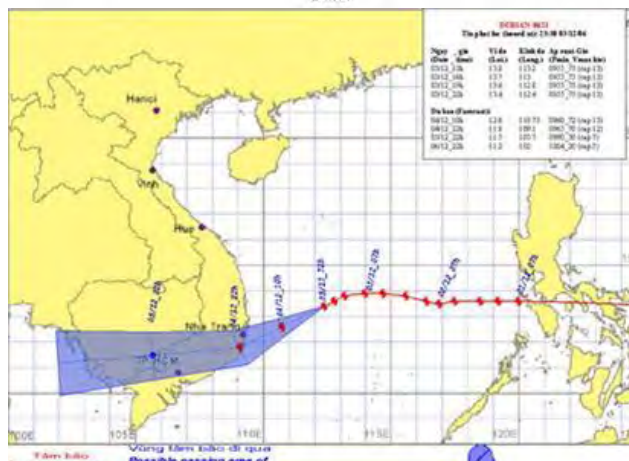


HIGHEST WATER LEVELS

FROM 2000-2011 CANTHO STATION



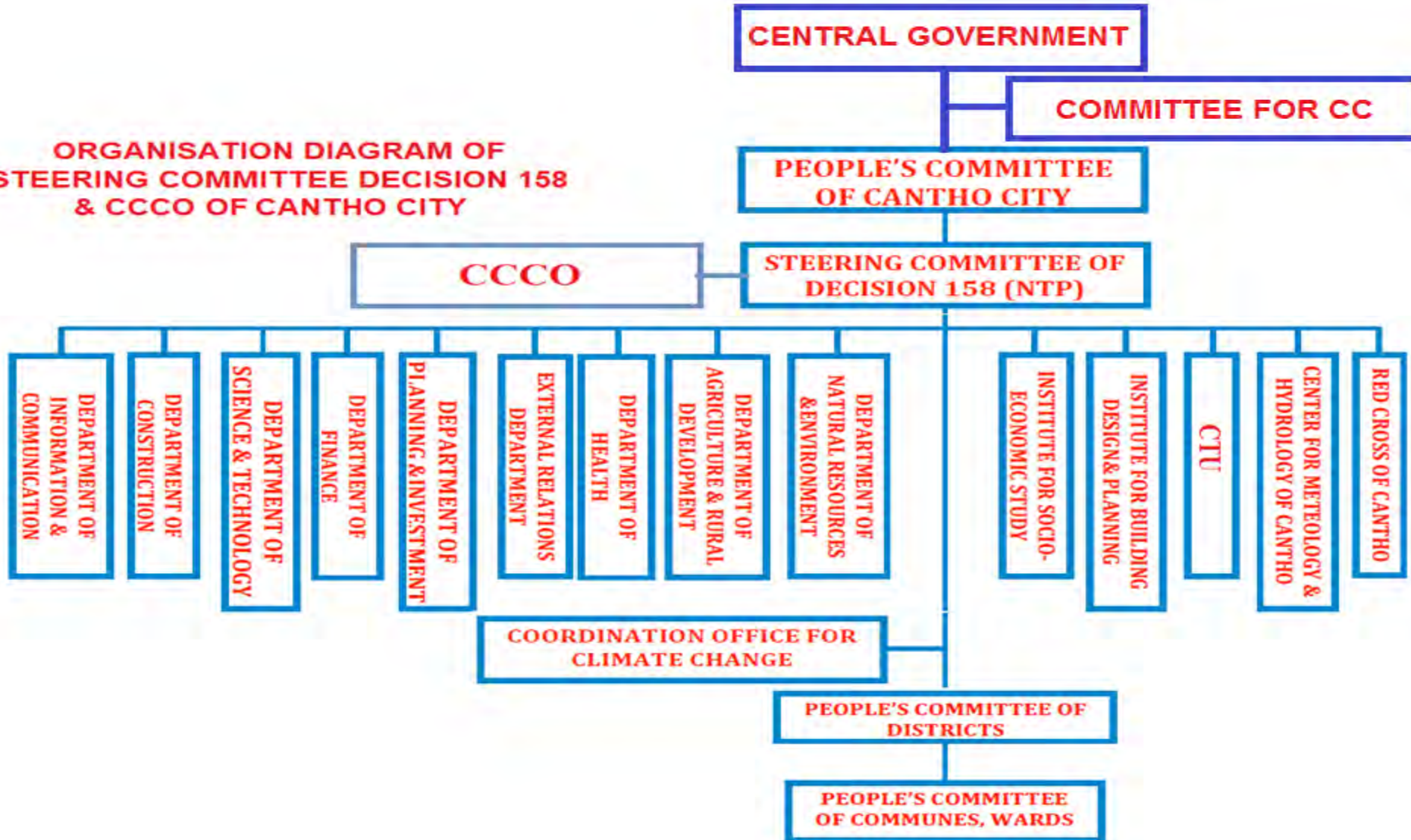
2050's





## 2. NATURAL DISASTERS & CLIMATE CHANGE RISK MANAGEMENT-ORGANIZATION

ORGANISATION DIAGRAM OF  
STEERING COMMITTEE DECISION 158  
& CCCO OF CANTHO CITY





## 2. NATURAL DISASTERS & CLIMATE CHANGE RISK MANAGEMENT-RESPONSES ACTIVITIES

### CLIMATE CHANGE RESPONSE ACTIVITIES PLAN 2011-2015

#### Non-construction options:

- Propagating the awareness of all social parts,
- Building CCCO & information center (website,..)
- Research for climate change adaptation; to research the legal for the response; **to building CC response activities plan 2015-2050,**
- Integrating climate change into implemented projects.

#### Construction options:

- Resettlement and increase income for the poor;
- Constructing: fence, dike to prevent flood, the versatile house,...Improving sewage and garbage treatment, clean-energy supply, reduce emissions ...
- Industrial and agricultural production by new seed, technology and materials..

## 2. NATURAL DISASTERS & CLIMATE CHANGE RISK MANAGEMENT-RESPONSES ACTIVITIES

SOME CC RESPONSE ACTIVITIES IN 2010-2011.

<http://www.biendoikhihau.cantho.gov.vn/>



ABOUT CLIMATE CHANGE

**BAN CHỈ ĐẠO QUYẾT ĐỊNH 158**  
**VĂN PHÒNG CÔNG TÁC BIẾN ĐỔI KHÍ HẬU**

Tác giả thông tin: Trần Thị Ngọc Bích

Vui lòng nhập từ khóa k | Tìm kiếm

<ul style="list-style-type: none"> <li>Trang chủ</li> <li>Giới thiệu</li> <li>Tin tức</li> <li>Diễn đàn</li> <li>Tài liệu</li> <li>Các cơ quan quốc tế</li> <li>Các đường link</li> </ul>	<p><b>WETLAND TOURISM:</b> <b>A GREAT EXPERIENCE</b></p> <p>Responsible tourism supports wetlands and people</p>	<p><b>Thời tiết Thành phố Cần Thơ</b></p> <table border="1"> <tr> <td>Ngày</td> <td>14-02-2012</td> </tr> <tr> <td>Thời tiết</td> <td>Ngày nắng, đêm không mưa</td> </tr> <tr> <td>Nhiệt độ cao nhất</td> <td>33 °C</td> </tr> <tr> <td>Nhiệt độ thấp nhất</td> <td>24 °C</td> </tr> <tr> <td>Lượng mưa lịch sử</td> <td>1997/- mm</td> </tr> <tr> <td>Độ ẩm</td> <td>76 - 85 %</td> </tr> <tr> <td>Mức nước</td> <td>5:00/0,41 m</td> </tr> <tr> <td colspan="2">Dự báo mực nước tại Châu Đốc</td> </tr> <tr> <td colspan="2">Dự báo mực nước tại Tân Châu</td> </tr> </table>	Ngày	14-02-2012	Thời tiết	Ngày nắng, đêm không mưa	Nhiệt độ cao nhất	33 °C	Nhiệt độ thấp nhất	24 °C	Lượng mưa lịch sử	1997/- mm	Độ ẩm	76 - 85 %	Mức nước	5:00/0,41 m	Dự báo mực nước tại Châu Đốc		Dự báo mực nước tại Tân Châu	
Ngày	14-02-2012																			
Thời tiết	Ngày nắng, đêm không mưa																			
Nhiệt độ cao nhất	33 °C																			
Nhiệt độ thấp nhất	24 °C																			
Lượng mưa lịch sử	1997/- mm																			
Độ ẩm	76 - 85 %																			
Mức nước	5:00/0,41 m																			
Dự báo mực nước tại Châu Đốc																				
Dự báo mực nước tại Tân Châu																				





## 2. NATURAL DISASTERS & CLIMATE CHANGE RISK MANAGEMENT-RESPONSES ACTIVITIES

### Building climate change response activities plan 2015-2050

- ❑ **OBJECTIVES:** Meet long-term and proactive; Support & Strengthening all social parts; Get the sustainable development; **No regrets.**
- ❑ **ACTIVITIES SCOPE**
  - Protect public health, prevention of damage due to high temperature,
  - Prevention of water-related harm: flooding, droughts, pollution,..
  - Sustainable development:
    - ✓ Ensuring livelihoods for everyone, especially the poor,
    - ✓ Limiting use pollution power: petro, hydropower..
    - ✓ Saving energy and all resources,
    - ✓ Saving natural, limiting use soil and natural landscape
  - Full exploitation of the beneficial elements of climate change.





### 3. LOCAL NEEDS.

To build an environmental sustainable city, Cantho City needs:

- The knowledge, materials, methods, technologies, design.. About climate change adaptation,
- To be provided facilities, machinery, tools, ..
- Financial and socio-economic supports..
- International cooperation in scientific research and policy response to climate change.



**Thanks for listening**