

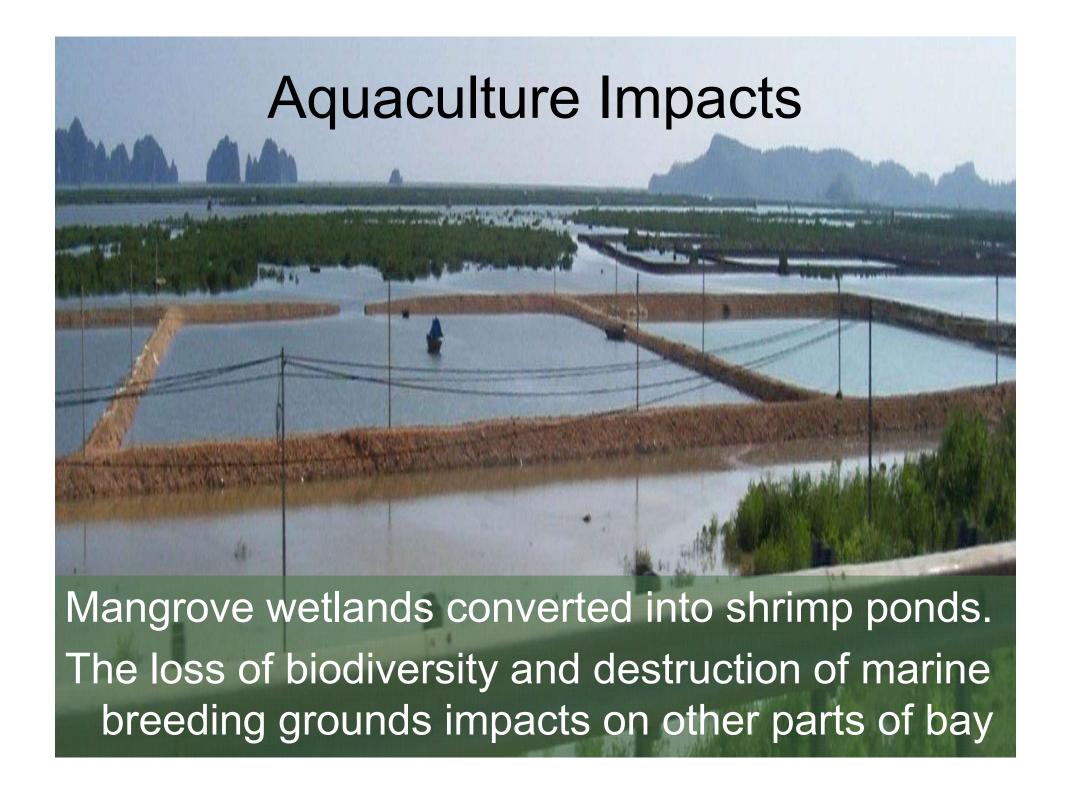
It is a "Paradise" with many problems

- Loss of mangrove wetlands
- Litter
- Coastal reclamation
- Sedimentation
- Heavy metal leachate and coal spillage
- Port development and dredging
- Risk of oil spills

But consider also Vietnam's current situation

- A rapidly increasing population now standing at 84 million
- A standard of living that has slipped behind that of some other SE Asian countries
- Widespread poverty
- A desire and determination to "Catch Up"

In light of this some environmental impacts seem inevitable – lets study these in Ha Long Bay



The loss of mangrove wetlands has been huge

- in 1989: 25.000 ha

- in 2001: 8.946,4 ha

That is a annual loss of 1,330 ha

If that rate of loss has continued

there will be about 2,000 ha

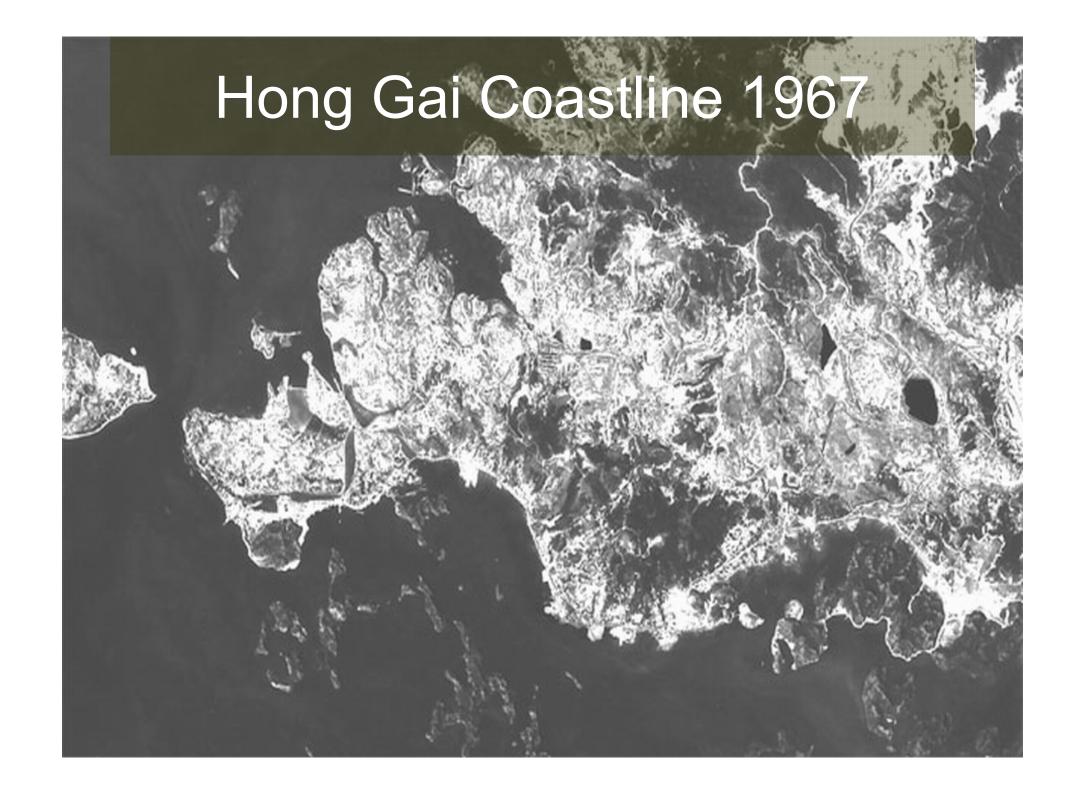
remaining now - a 92% loss

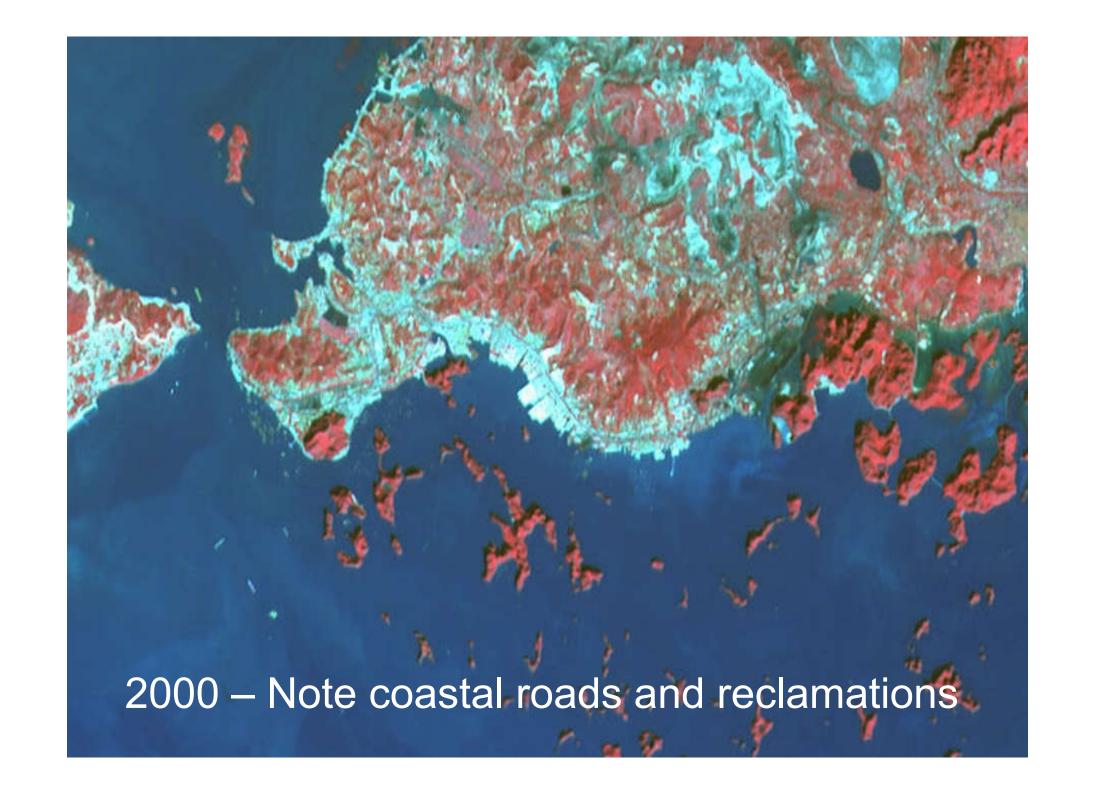












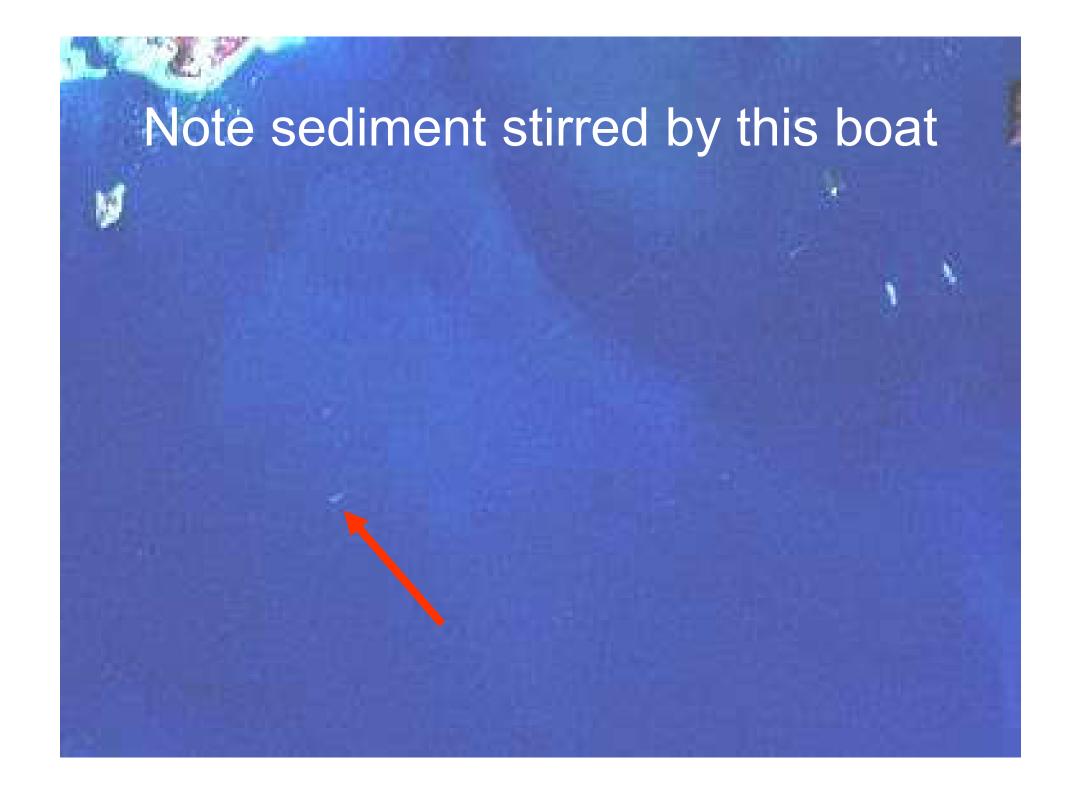


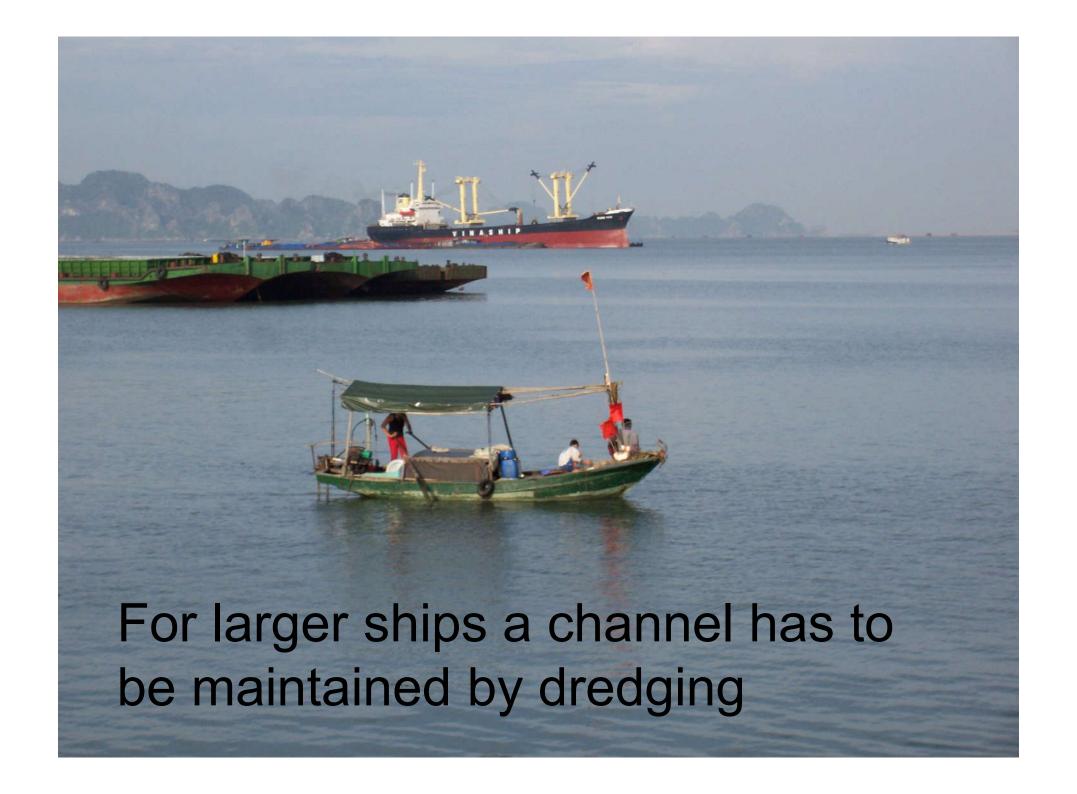
A causeway for a new tourist resort



Near Ha Long City the bay is only 2 to 3 metres deep

- Each passing tourist boat stirs up bottom sediment
- Shallow water becomes eutrophic more readily
- Turbid water is heated more easily by sunlight
- Restricting normal tidal flows will possibly elevate water temperatures



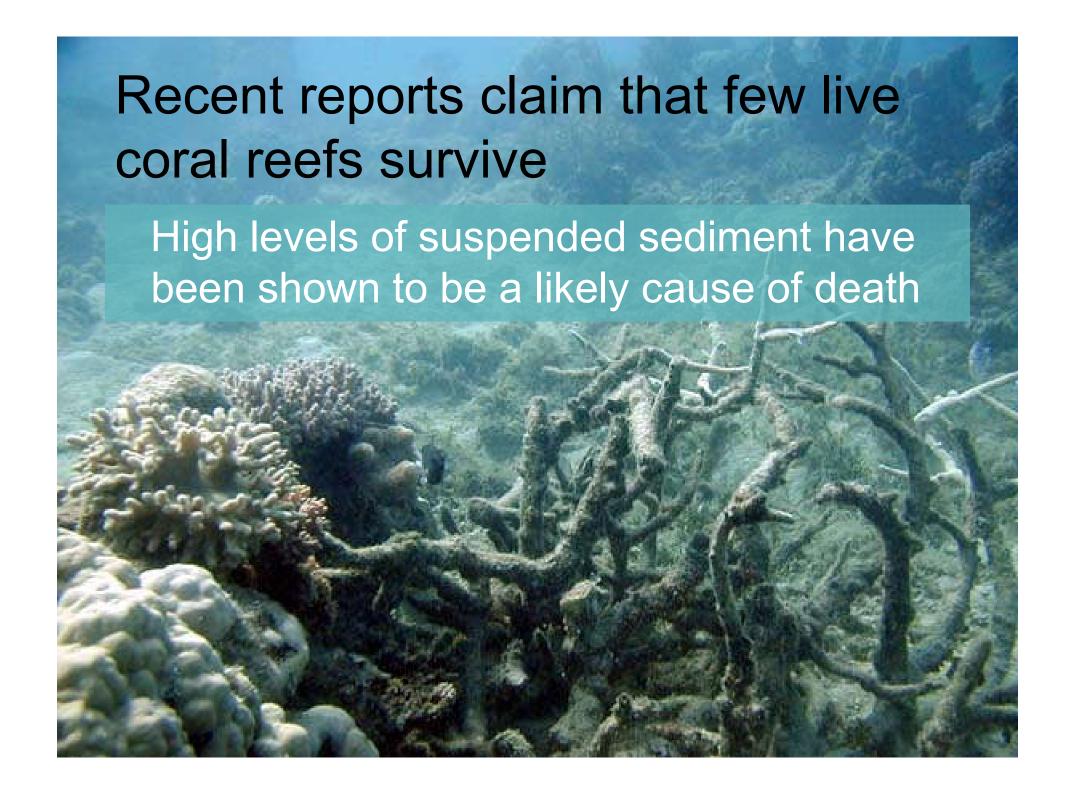


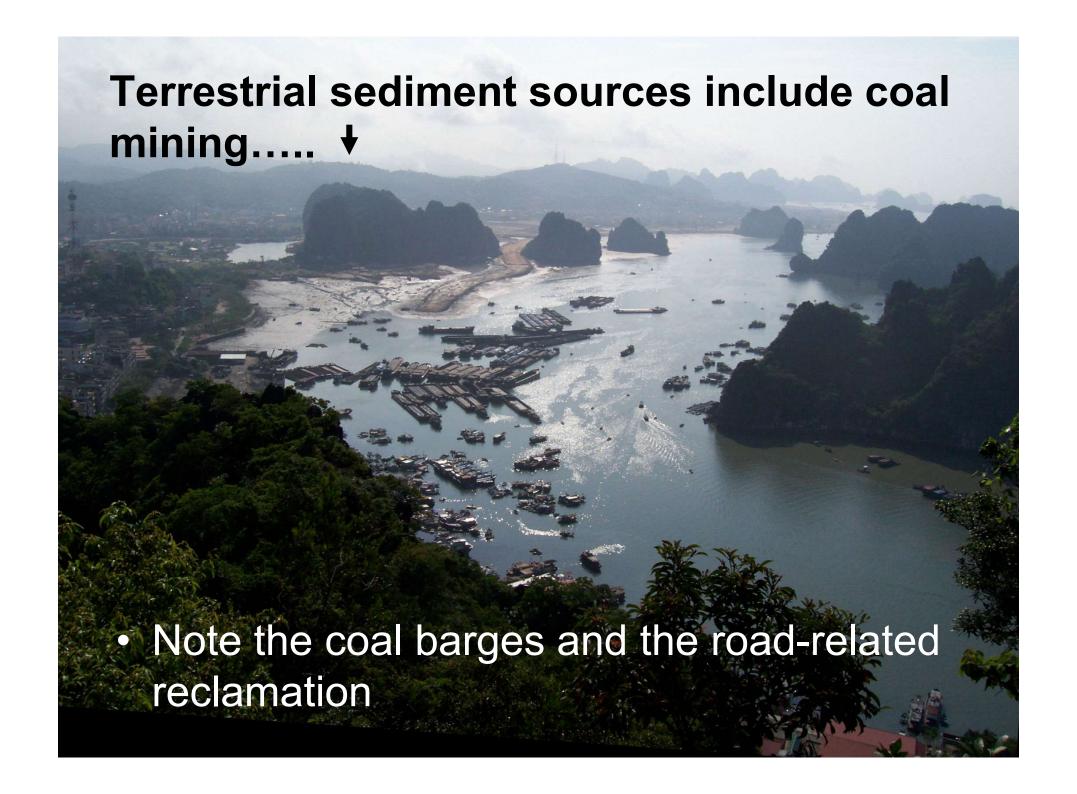


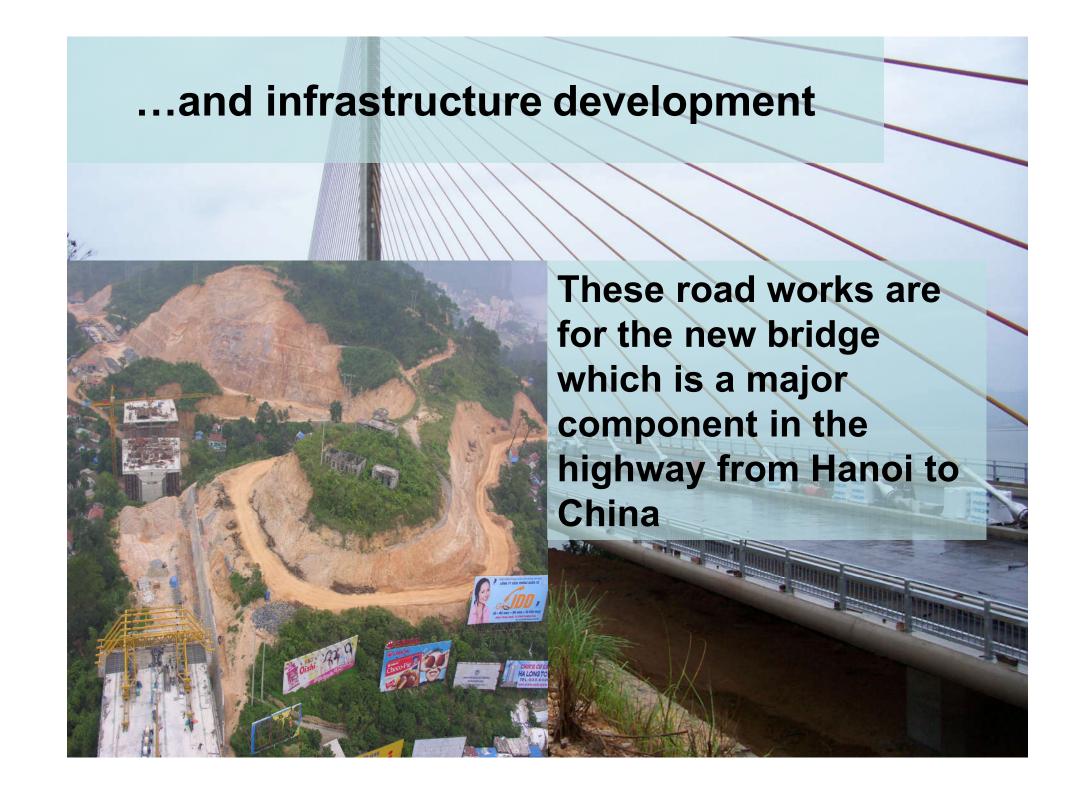




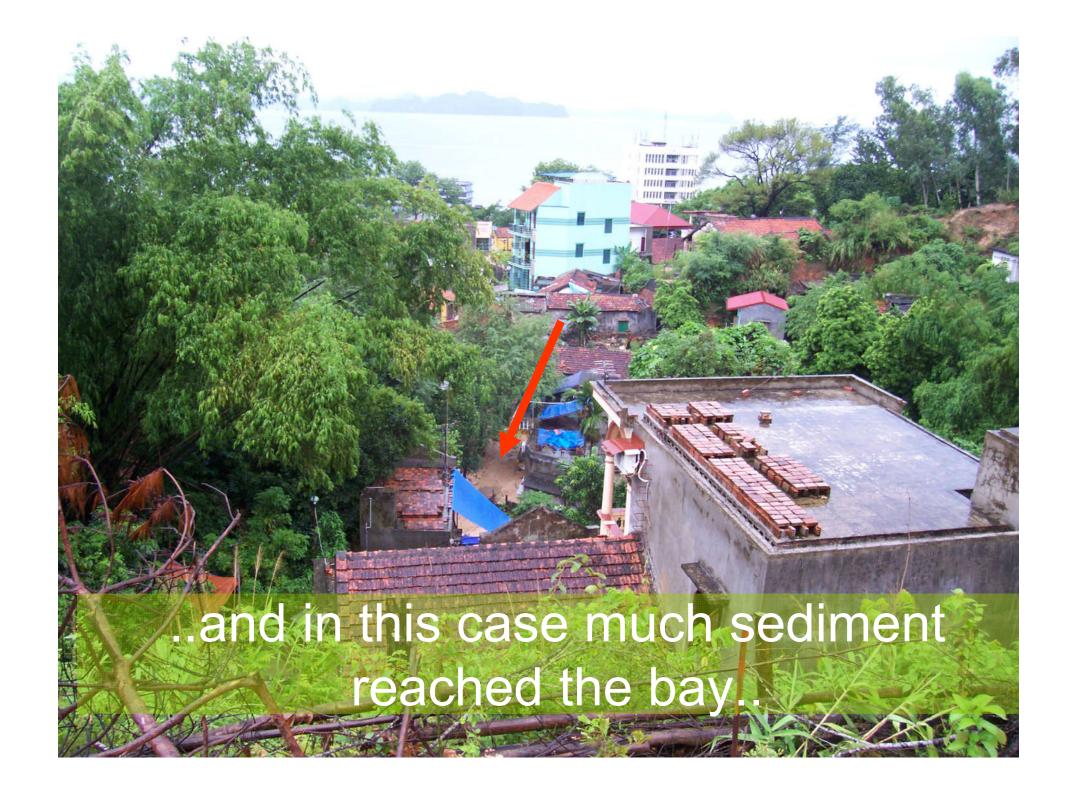














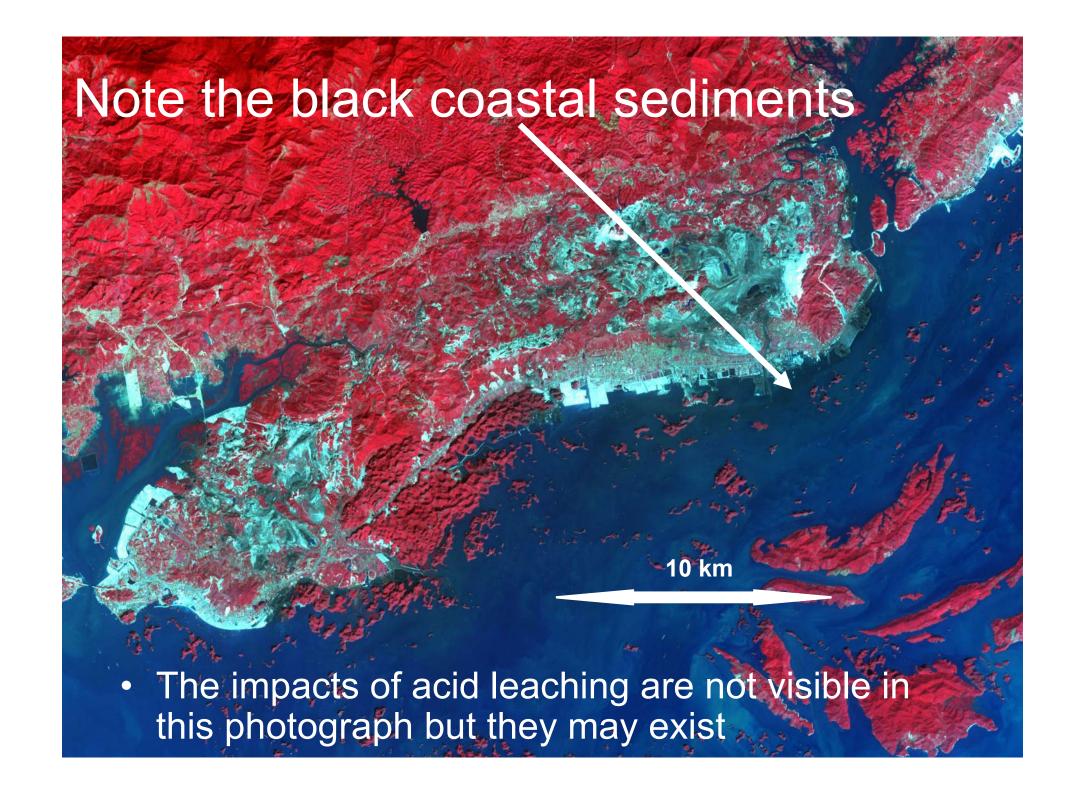


Coal Mining

(116) TONKIN : Hongey. Mines de charbon.

Done to fond les rochers de la baie d'Riong.

Photographs of current mining activities are hard to obtain – times were bad 100 years ago.

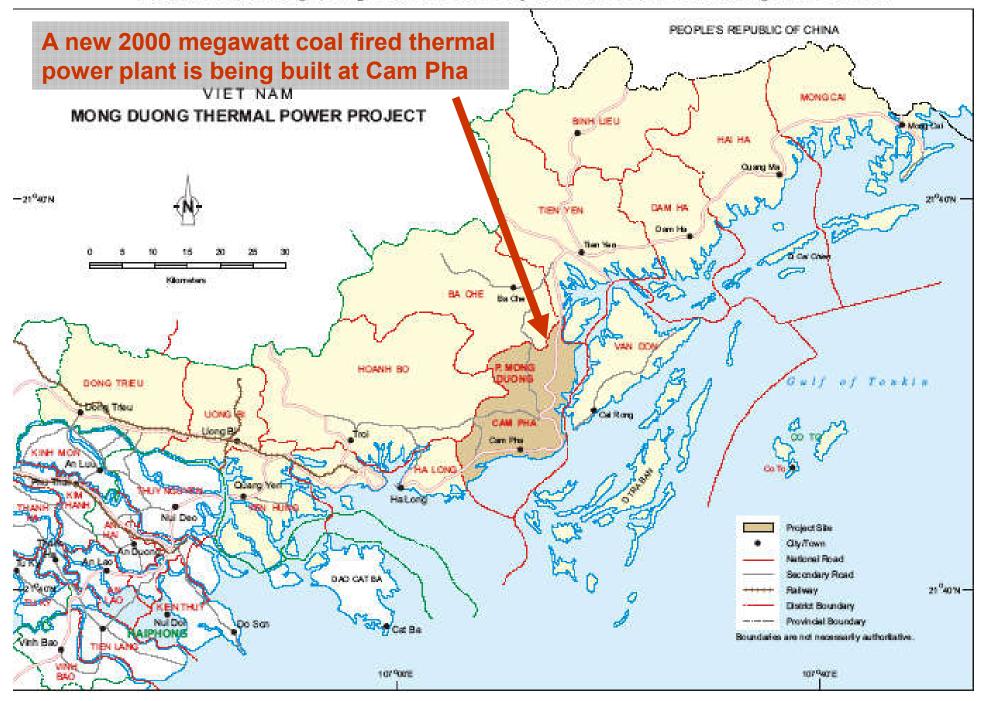








Location of the Mong Duong Thermal Power Project in Cam Pha District, Quang Ninh Province





SEPTEMBER 9"4-15TH 2006

www.economist.com

The Blair leadership crisis

Yet another issue for coal rich Quang Ninh Province

Catastrophe looms in Darfur

Fancy a Swedish model?

The heat is on

A special report on climate change

CO2 production will increasingly become a global issue

On the Brighter Side....

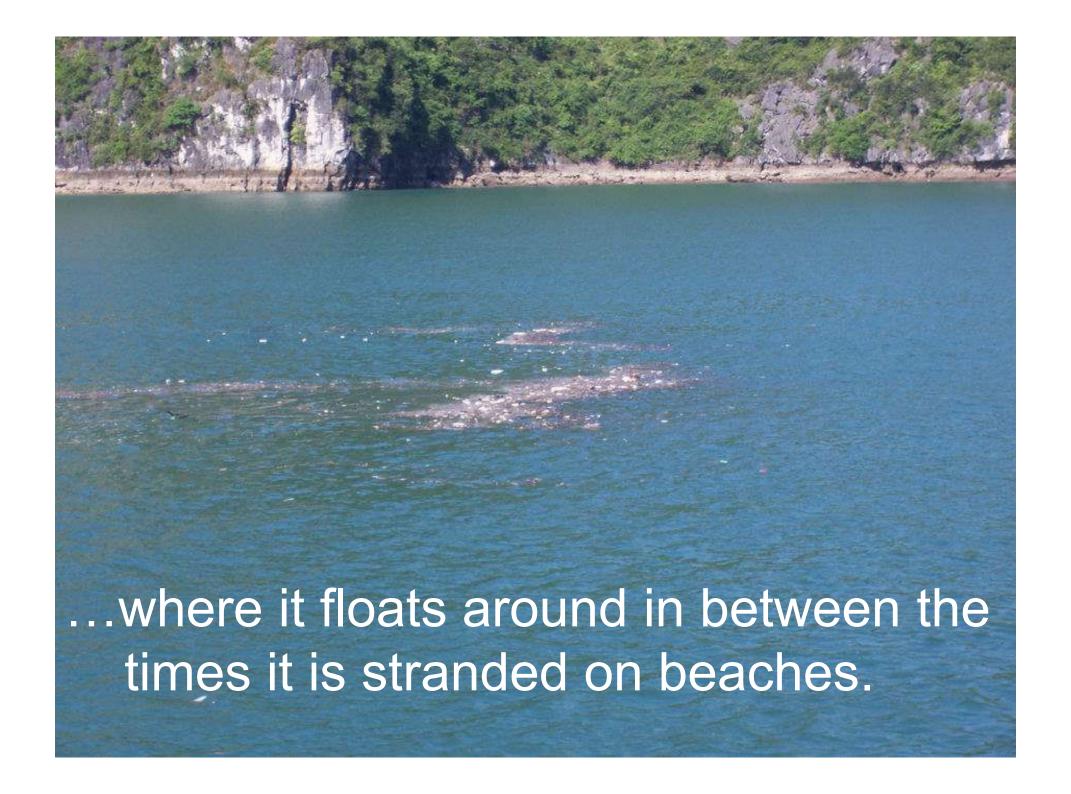
- Vinacomin, the major coal company here in Ha Long Bay, is now taking its environmental problems very seriously
- These problems were inherited from the French colonists and later management
- A German aid program has been operating for 1 year already to identify the problems and to design practical solutions











Possible Remedies

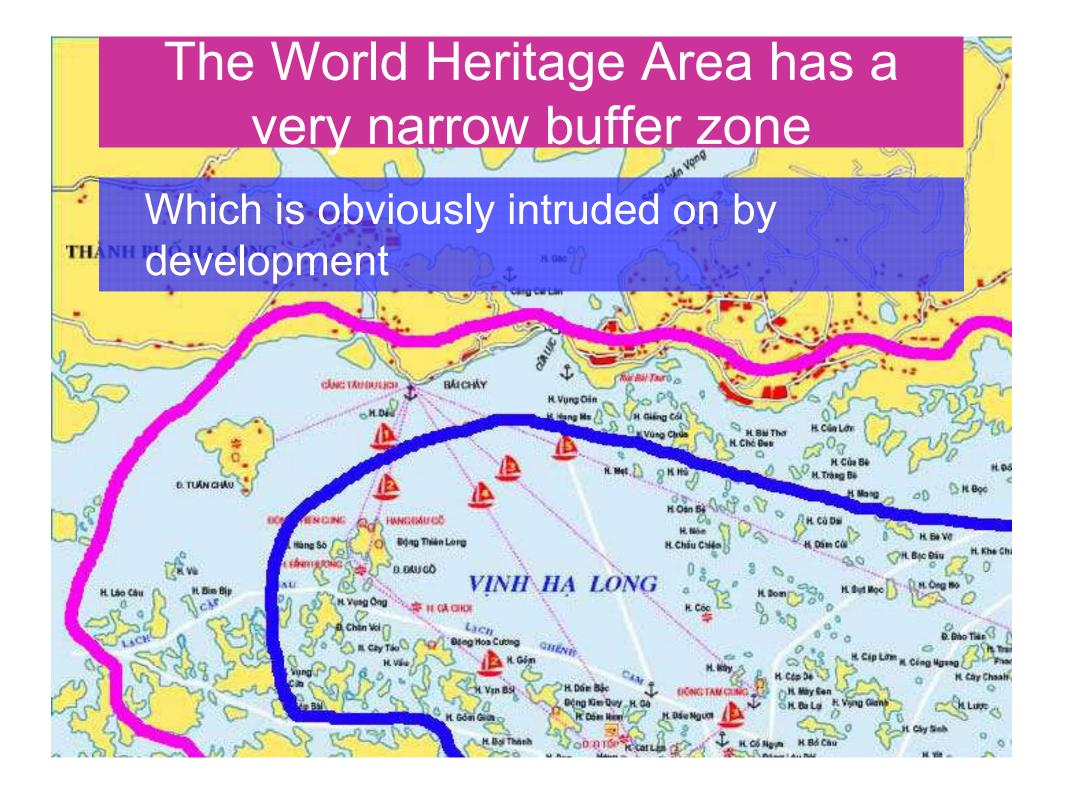
- The value of recycling plastic is gradually being realised
- A company has been established near Hanoi to produce plastics recycling equipment

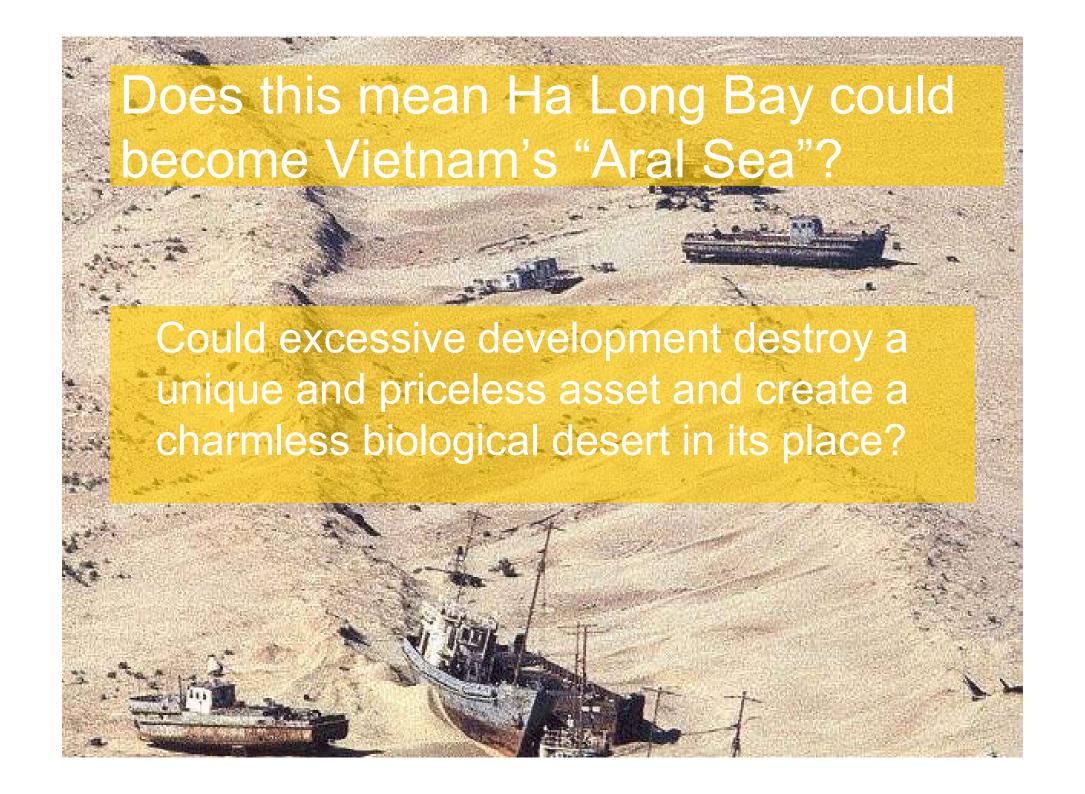


Disposal of non-recyclable plastic



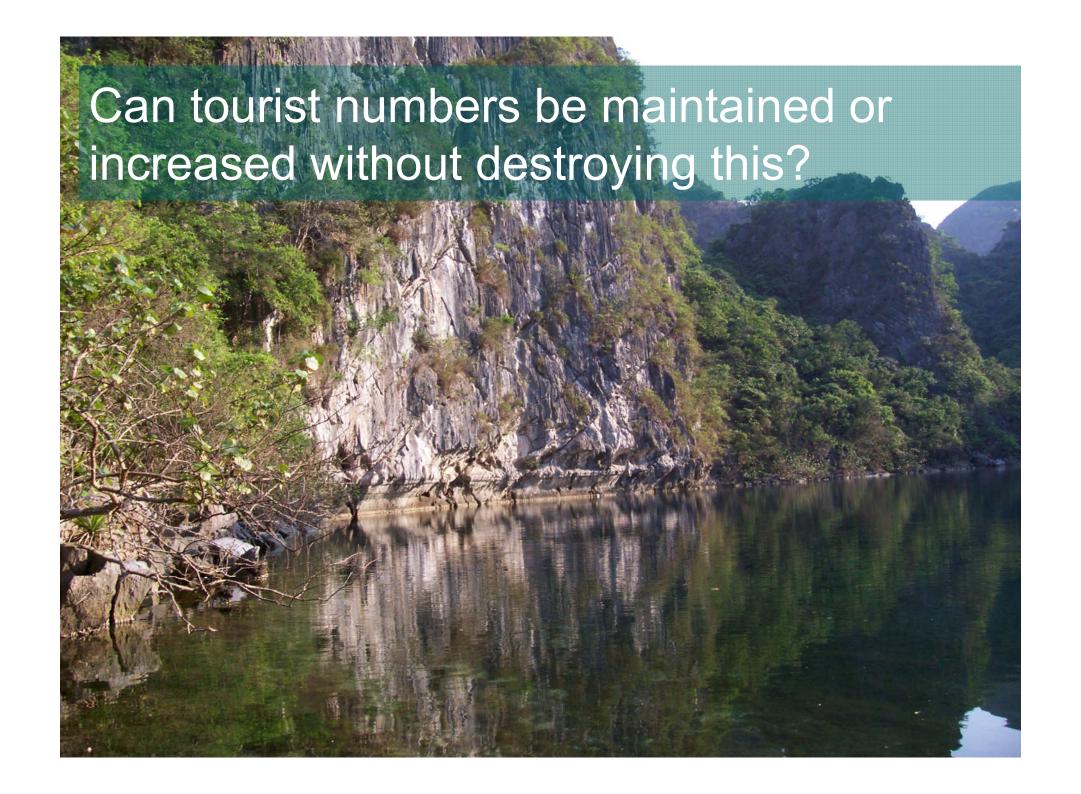
- Collected styrofoam is burnt at present is this a wise disposal technique? What else can be done with it?
- Does burning styrofoam produce Dioxins?
- Does the absorbed Cl- ion from sea water increase the risk?





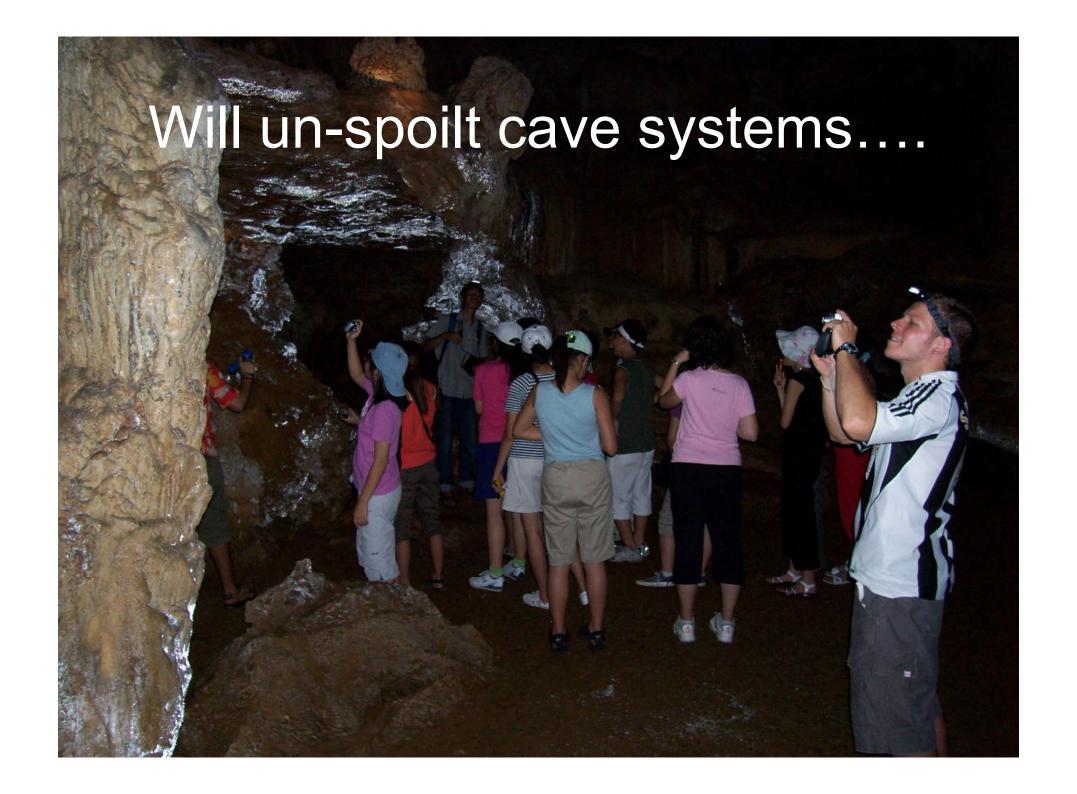
Why do these impacts continue?

- Consider these issues:
- The living standard of many local people is not high and needs to be lifted
- Tourism brings in large sums of foreign currency
- Coal is a major energy resource for this province and a major export to China
- Transport links to nearby China are very important
- Does Vietnam have other options?













Meanwhile we on the Ecoboat think about issues such as:

 the inadequate buffer between the World Heritage Area and the mainland development

The loss of landscape values

 and how to best make a positive difference to Ha Long Bay's future, while not doing anything counterproductive.



