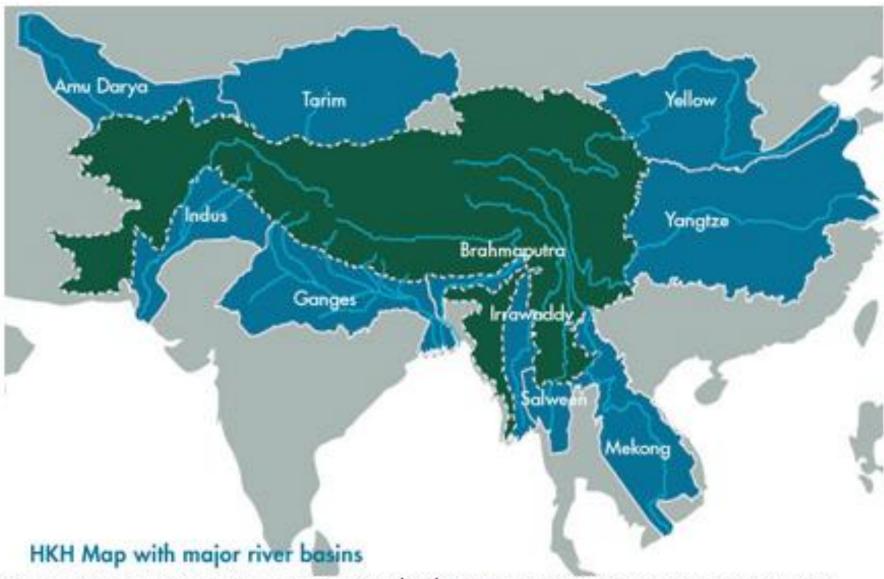
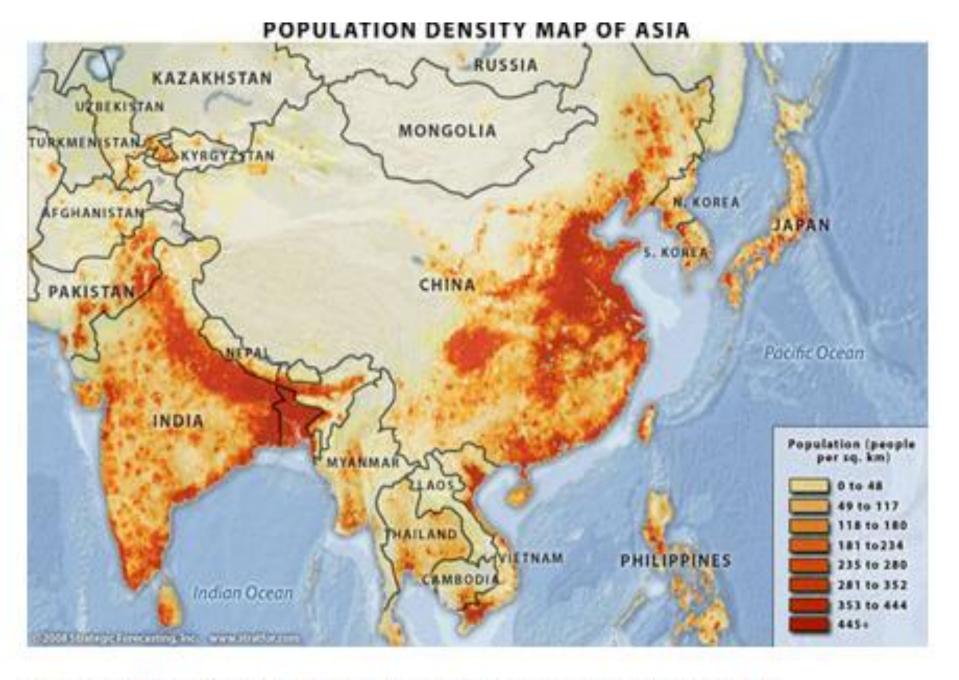


Ten river basins of the Hindu Kush Himalayan region



Note: The HKH region as defined by IEIdHOD (WWW.townod.org/?gaggy4.3). The region extends from 38–177°E and 9–45°N. Downloaded 7 October 2010...

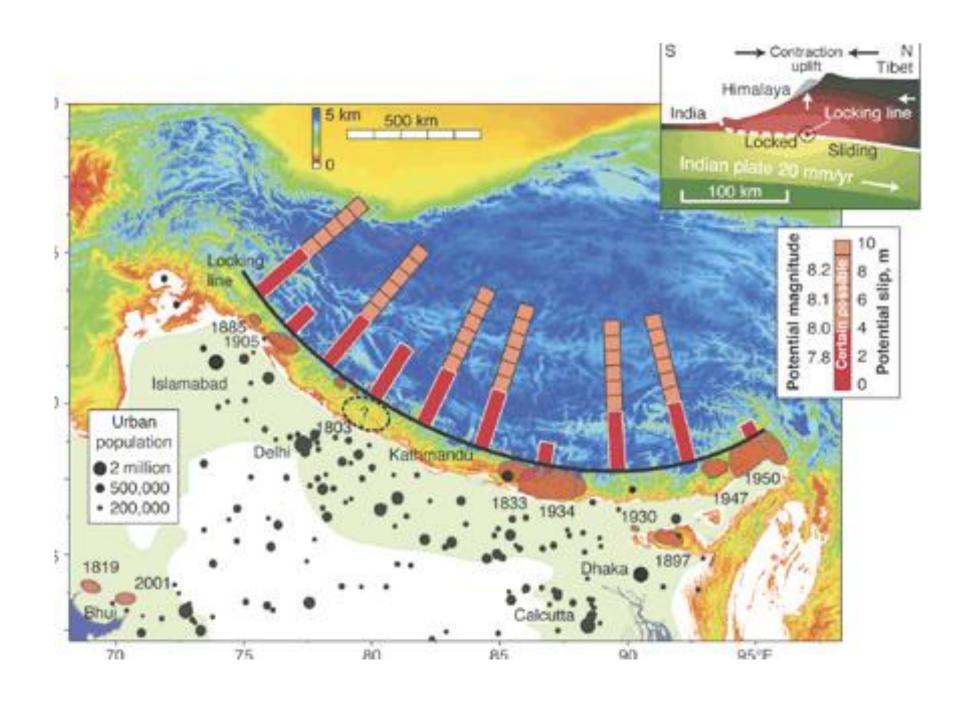


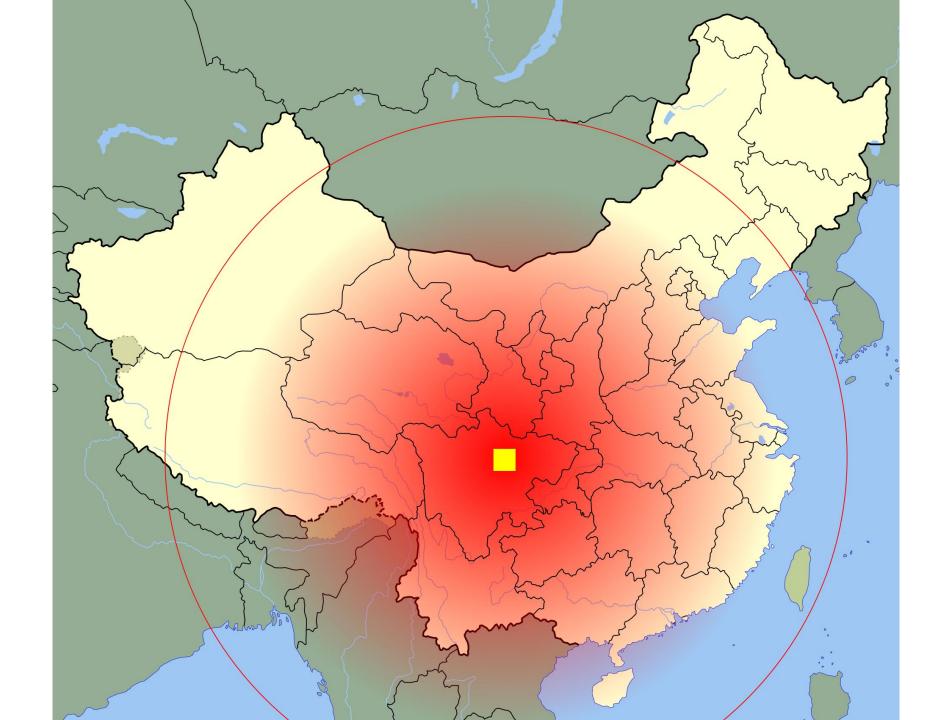
Also available in Table form: Projected growth of the Asian mega-city to 2025

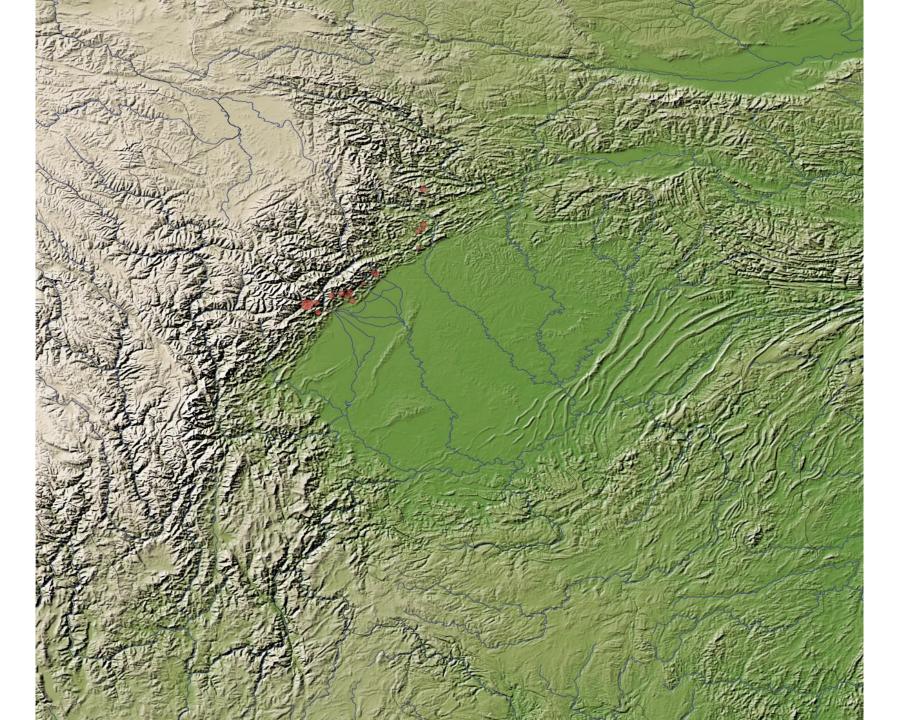
Water stress

- ■516 million people in China
- ■526 million people in India and Bangladesh, 178 million people in Pakistan and northern India
- ■49 million people in Central Asia, including Xinjiang are at risk from water shortages. (source: ICIMOD 2010)



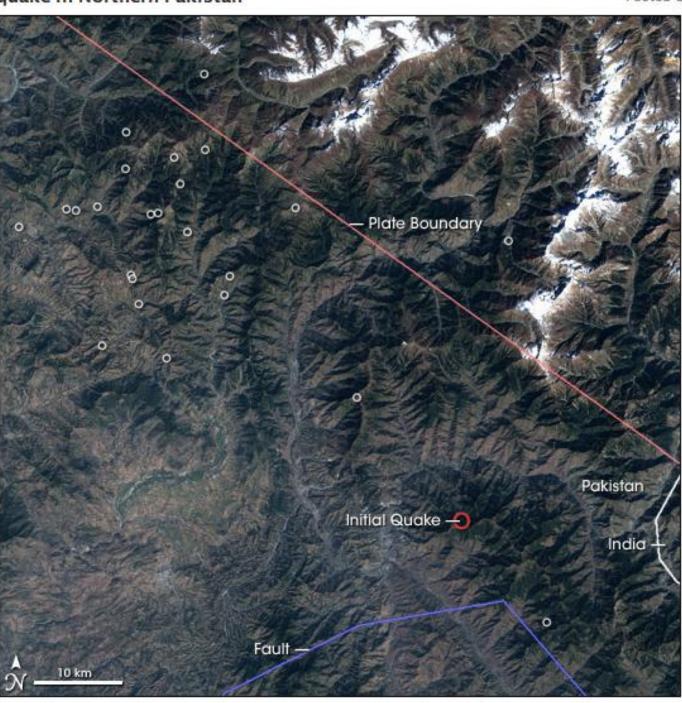


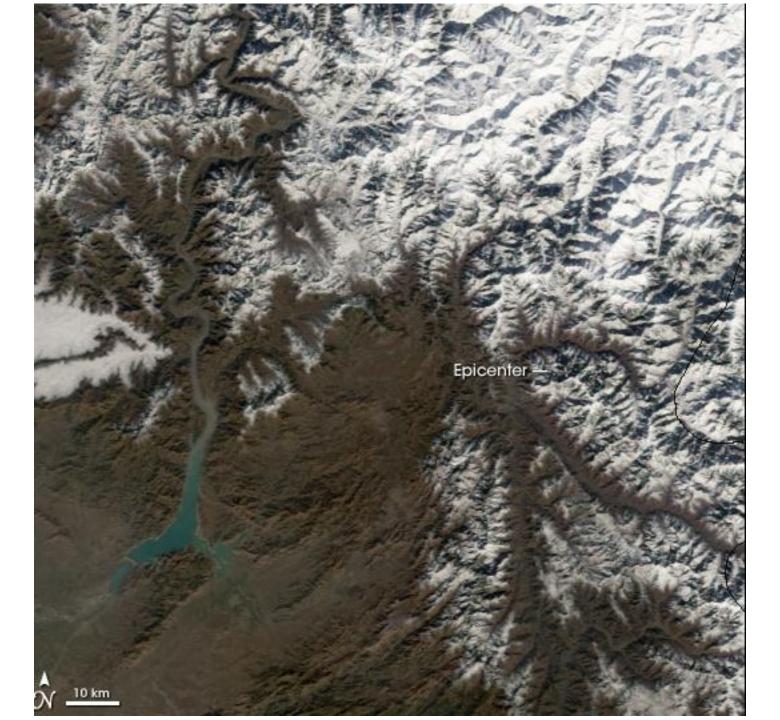




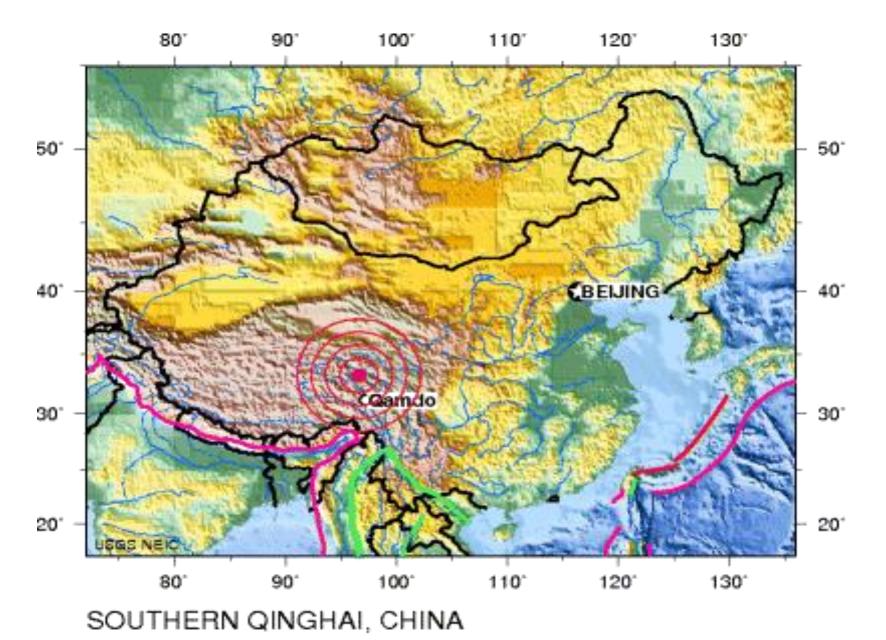












2010 04 13 23:49:37 UTC 33.27N 96.63E Depth: 10.0 km, Magnitude: 6.9

Earthquake Location



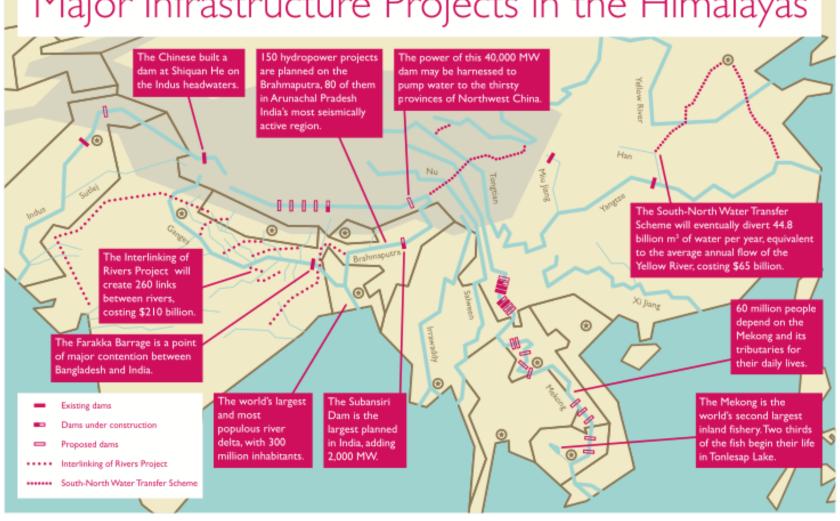


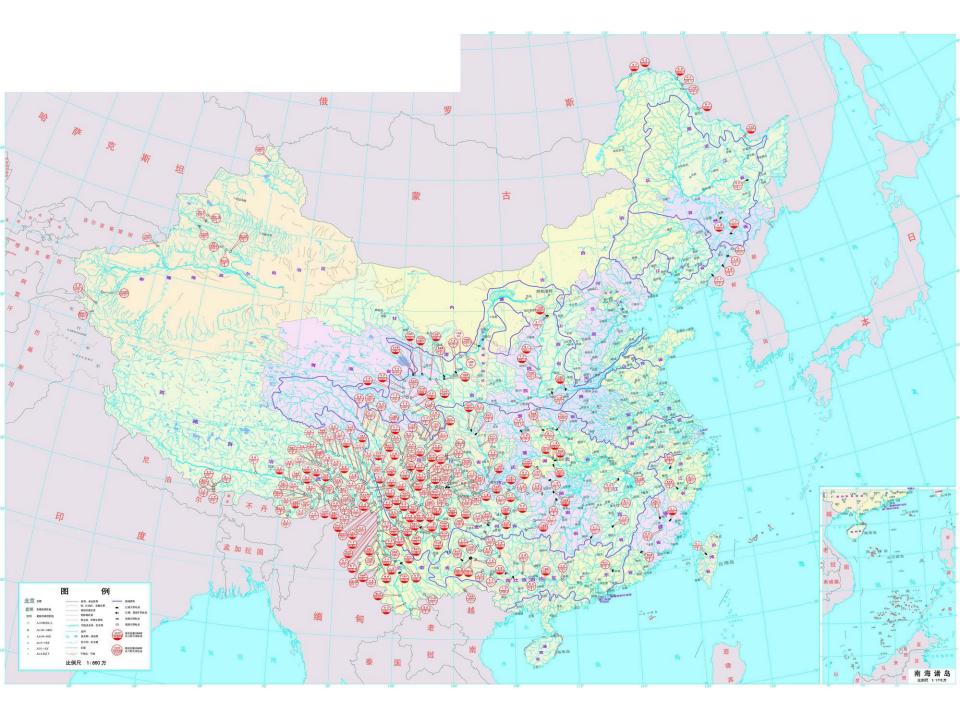


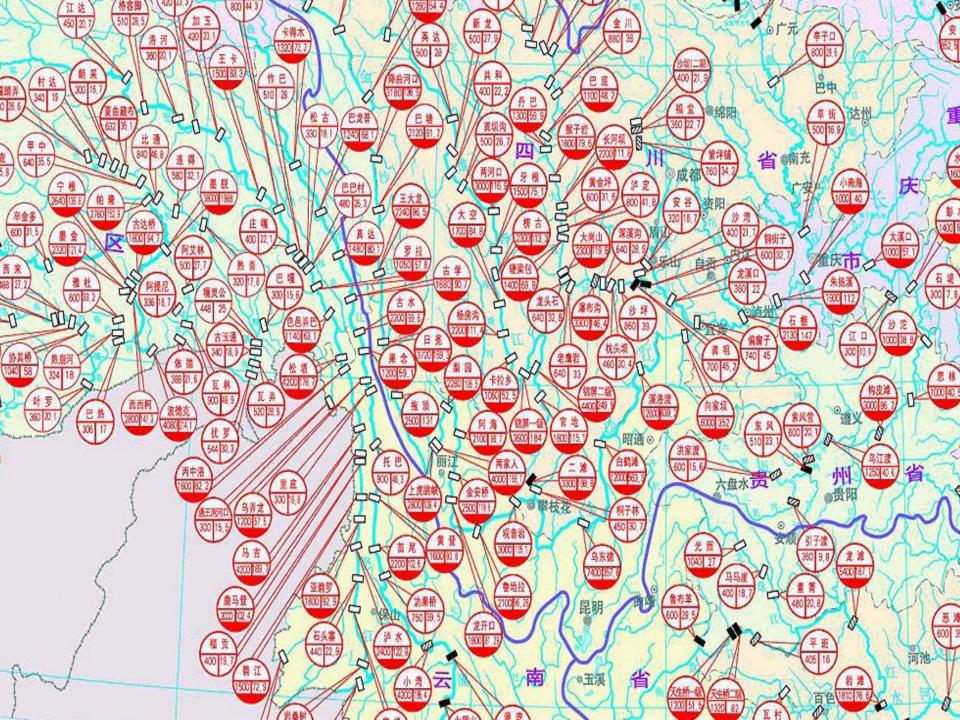




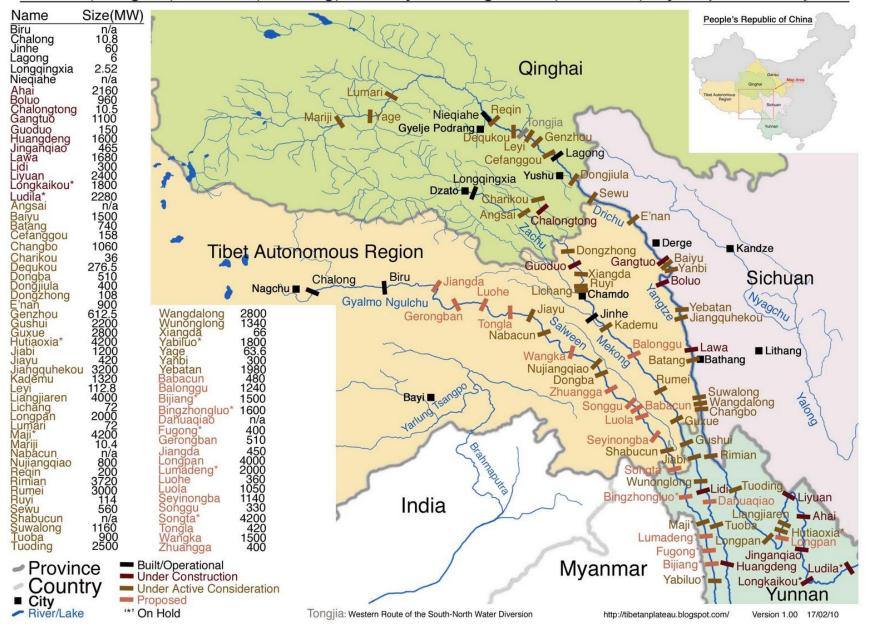
Major Infrastructure Projects in the Himalayas



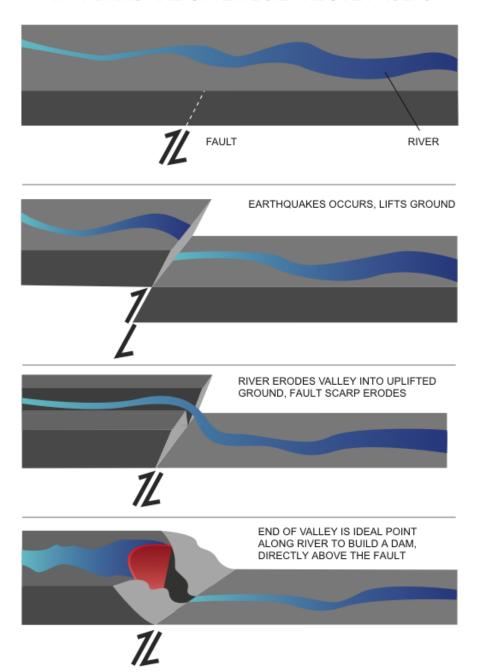


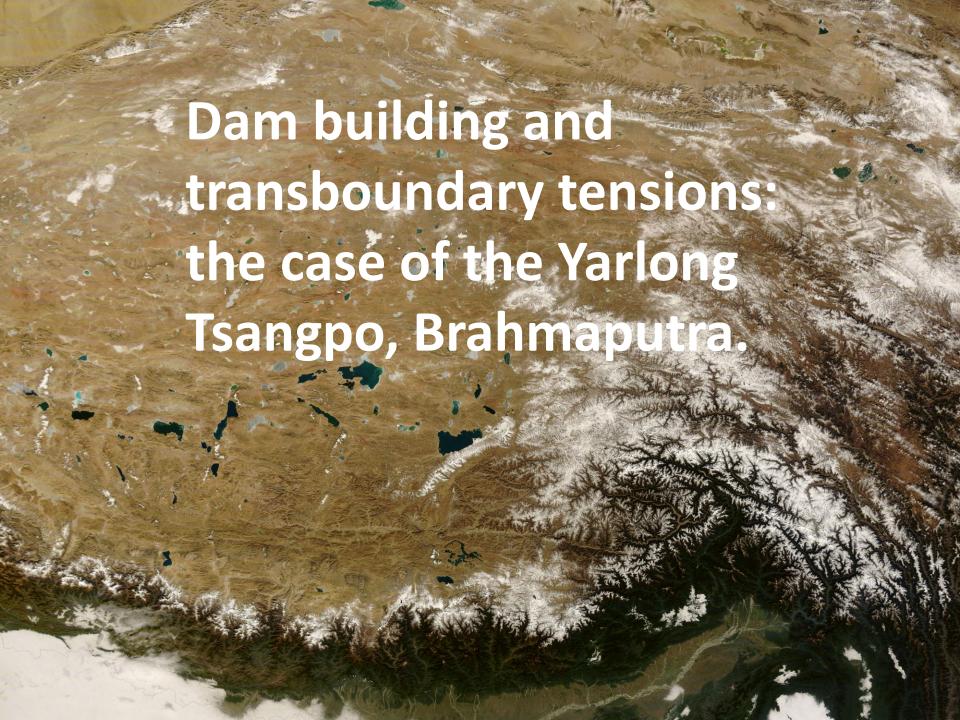


Drichu (Yangtze), Zachu (Mekong) and Gyalmo Ngulchu (Salween) Hydropower Projects



WHY DAMS ARE OFTEN BUILT ABOVE FAULTS

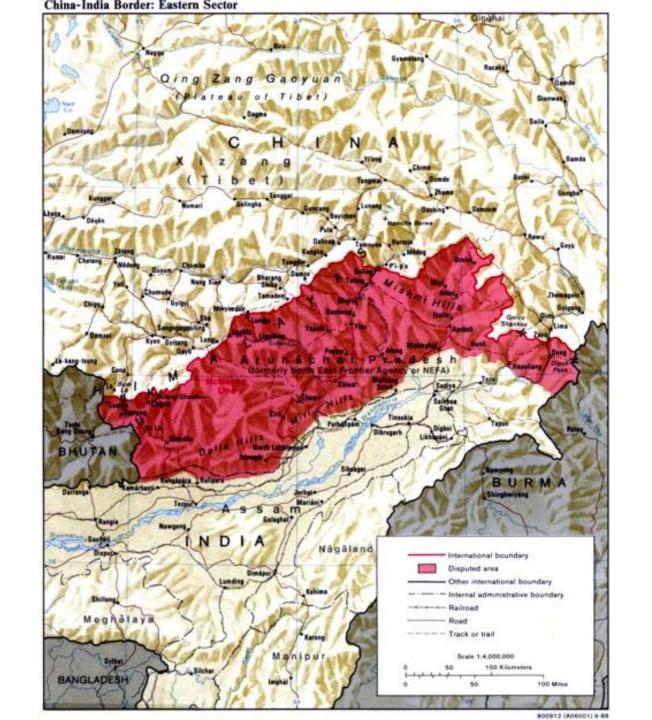


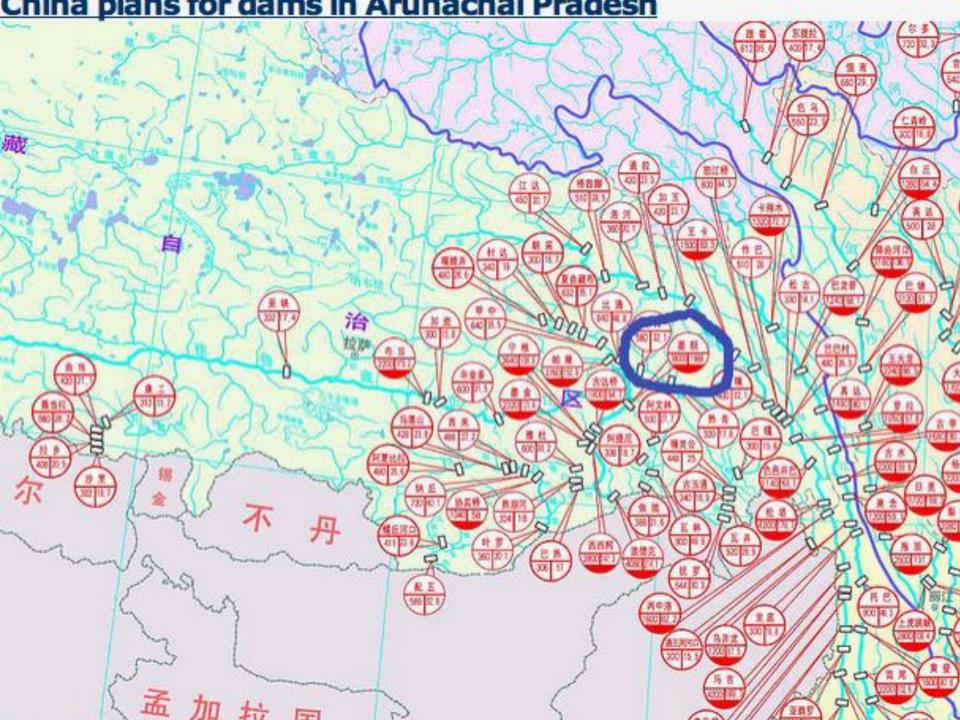




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Chinese hydropower lobbyists are calling for construction of the world's biggest hydro-electric project on the upper reaches of the Brahmaputra river as part of a huge expansion of renewable power in the Himalayas

The Guardian, May 2010

a dam on the great bend is the ultimate hope for water resource exploitation because it could generate energy equivalent to 100m tonnes of crude coal, or all the oil and gas in the South China sea.

(Zhang Boting.. Senior Chinese official)

delay would allow India to tap these resources and prompt "major conflict"

"We should build a hydropower plant in Motuo ... as soon as possible because it is a great policy to protect our territory from Indian invasion and to increase China's capacity for carbon reduction.."

(Zhang Boting)

South Asian dam building

- 46 dam projects under construction in the Himalayas (37 in India)
- ■396 planned (318 in India)
- India's Himalayan hydroelectric generating capacity will go from 15,000 MW to 126,000 MW
- Nepal's from 500 MW to 27,000 MW
- ■Bhutan's from 1,500 MW to 17,000 MW
- ■Pakistan's from 6,400 MW to 42,000 MW







Pakistan Floods

\$9.7 billion, twice the cost of the Kashmir earthquake (World Bank)

- ■1,700 people dead
- ■20 million displaced
- ■700,000 cases of acute diarrhoea
- ■800,000 acute respiratory infections
- ■1,000,0000 cases of skin disease
- ■183,000 suspected malaria cases

"the worst natural disaster the United Nations has responded to in its 65-year history." *Ban Ki-moon* \$2 billion required for for post-flood relief and recovery

- 17 million acres fertile crop land submerged
- ■200,000 head of livestock lost
- Loss of planting season
- ■700,000 acres (2,800 km2) of lost cotton crops,
- 200,000 acres (810 km2) of sugar cane
- 200,000 acres (810 km2) of rice
- ■500,000 tonnes of stocked wheat
- ■300,000 acres (1,200 km2) of animal fodder
- ■70% of Pakistan's population do not have adequate access to proper nutrition.
- ■2,433 miles of highway (\$158 million)
- 3,508 miles (5,646 km) of railway (\$131 million)
- Public building damages (\$1 billion)
- ■5,000 schools destroyed.



- 40 per cent of the world's population in a highly tense and vulnerable region
 Unpredictable consequences of political and economic results of water stress: several nuclear powers, old enemies and religious and political tension
- Managing water requires cooperation across many boundaries international, disciplinary, technical and scientific..
- It is cheaper and better to plan ahead than to mop up the consequences of a disaster, but our politics don't reward prevention. We have to change our thinking.

Thank You!

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