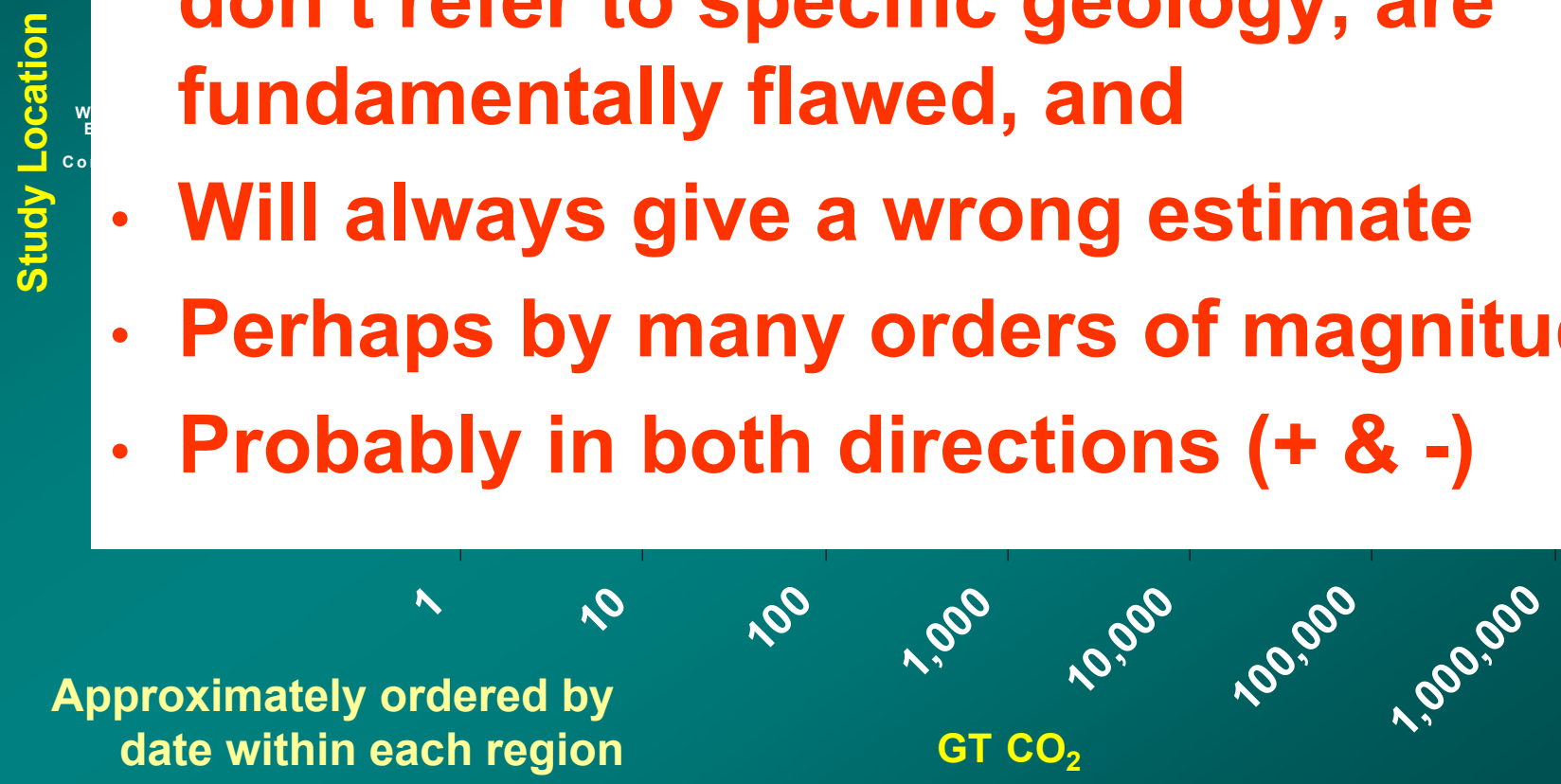
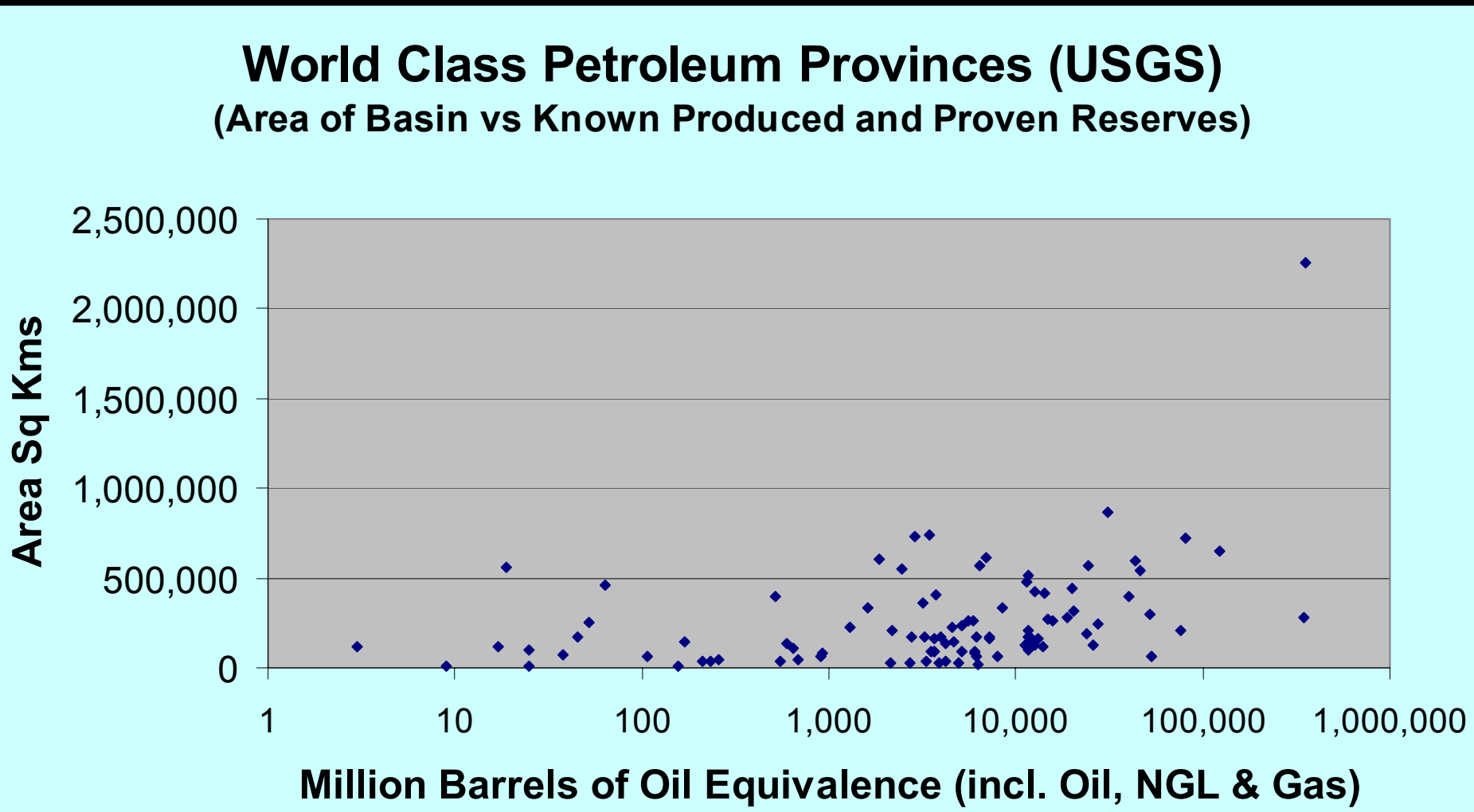
World and Regional Storage Capacity Estimates

(almost all estimates based on using surface area calculation rather than geology)

- All estimates which use a sedimentary basins measured surface area to calculate regional storage capacity and don't refer to specific geology, are fundamentally flawed, and
- Will always give a wrong estimate
- Perhaps by many orders of magnitude
- Probably in both directions (+ & -)



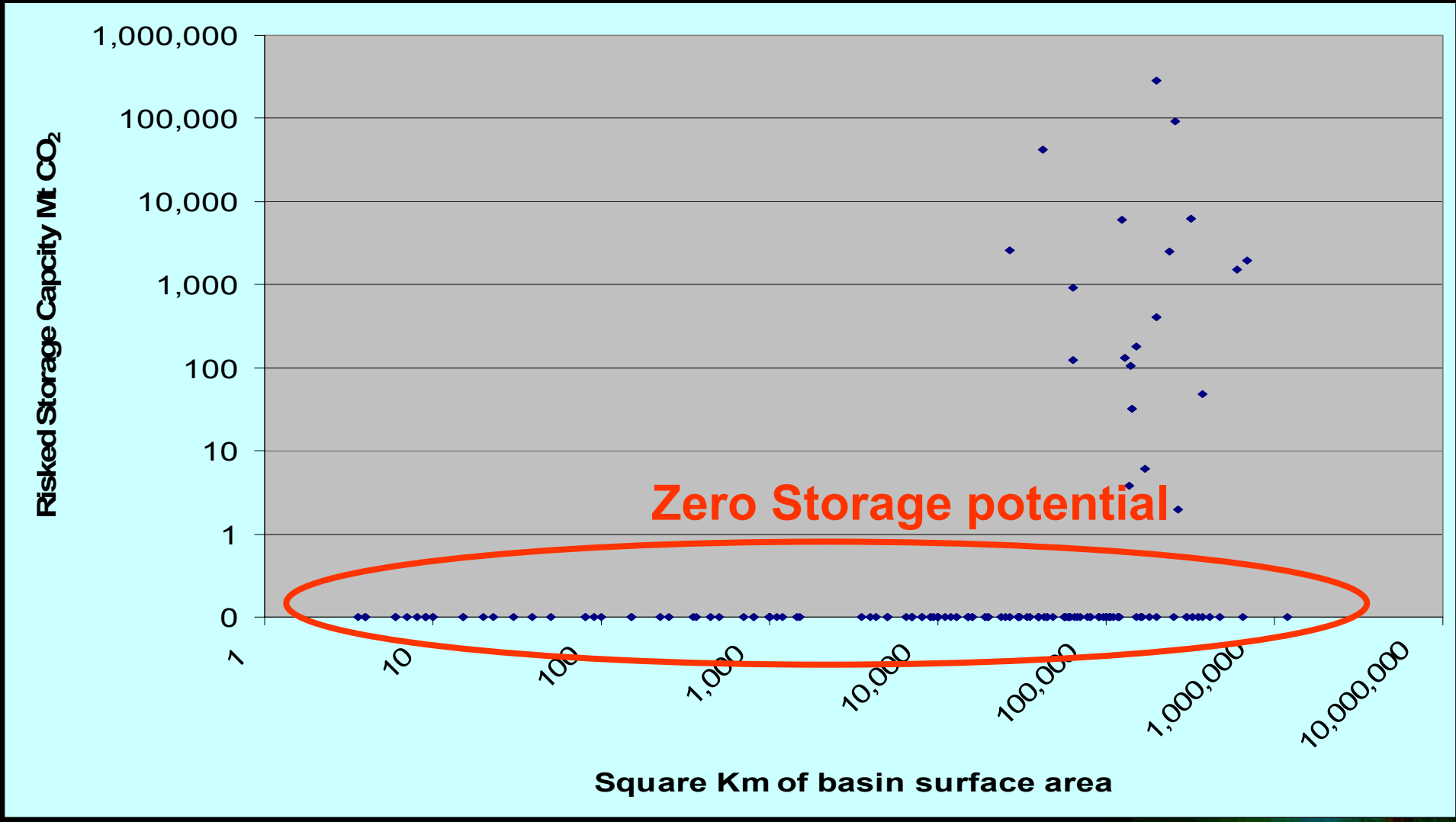
Relationship between Surface Area of Basin and trapped reserves of hydrocarbons i.e. – there is none



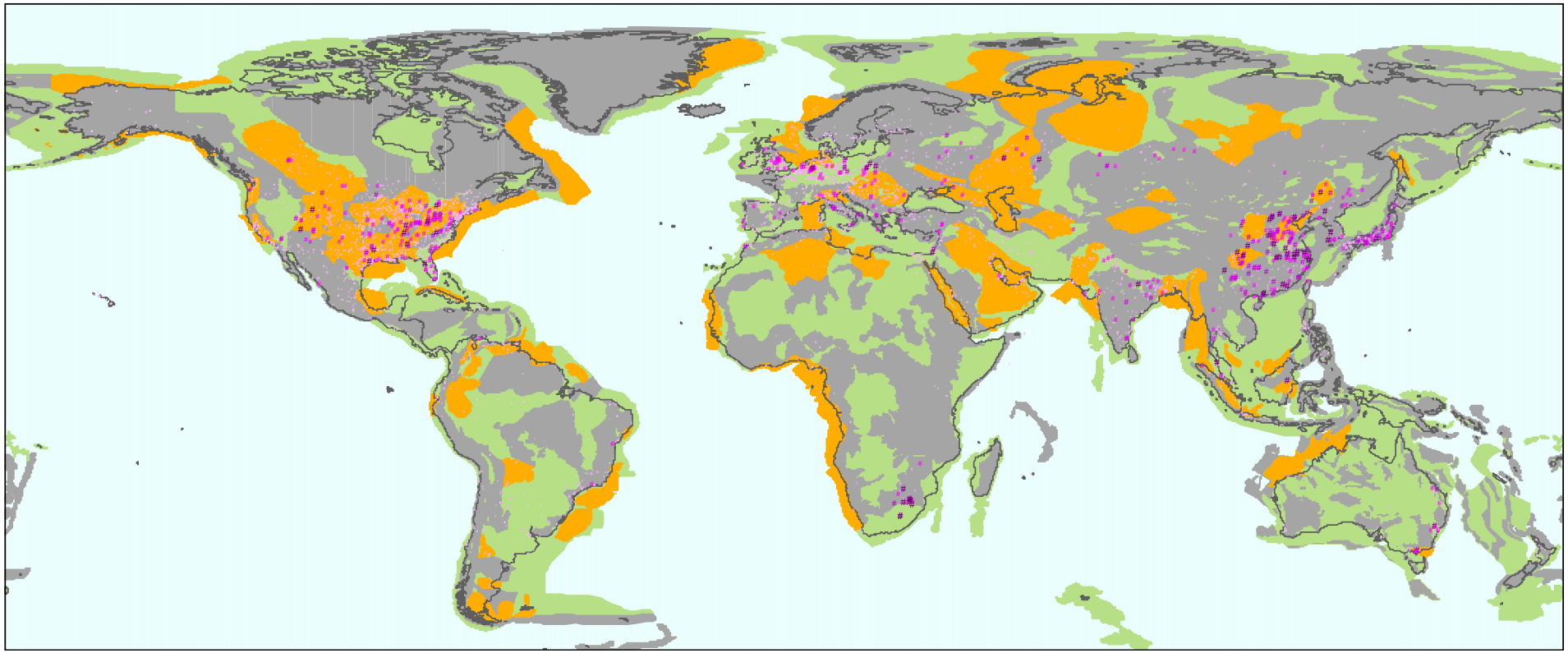
Relationship between Surface Area of Basin and CO_2 storage potential for Australian basins (GEODISC)

(Note: log / log curve)

i.e. – again there is none



Prospective Regions with Emissions Locations



Highly Prospective Areas

Prospective Areas

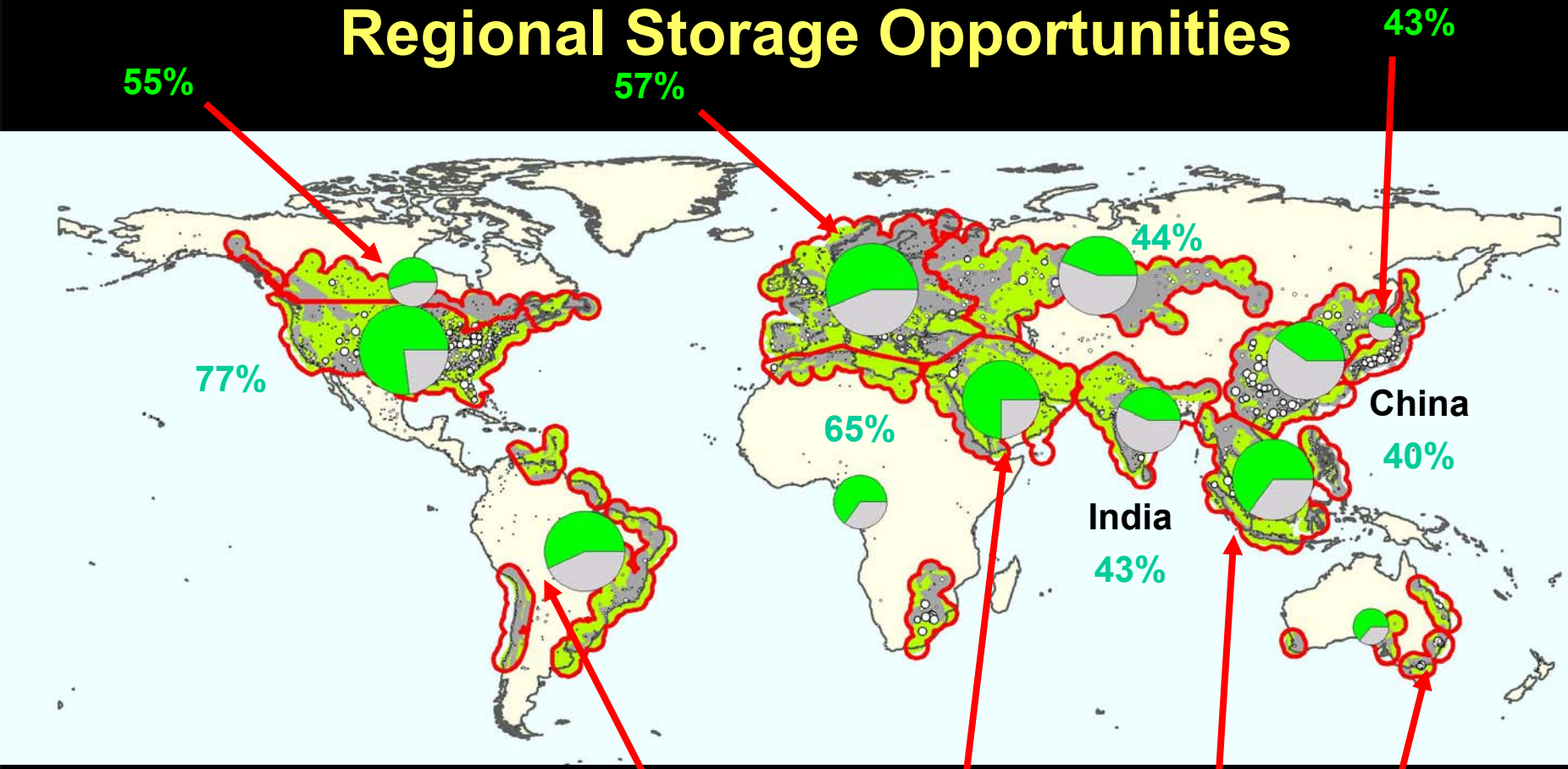
Non-Prospective Areas

Emission Locations
kT CO2 / year

- 1 - 1000
- 1000 - 5000
- 5000 - 10000
- 10000 - 15000
- 15000 - 50000

0 3000 Km

Regional Storage Opportunities



- Emission sources
  Emission regions

% Available Storage Opportunity

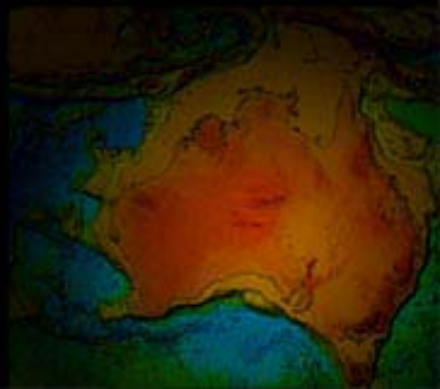
Available Storage Opportunities– lime green

Non-prospective areas- GREY

Size of pie proportional to total surface area

But ……. remember !

- Says nothing about the geology of the sedimentary basins
- Or their suitability to store CO_2



So how to make estimates?

- Don’t use MAPS + Planimeter + Calculator
  - Fundamentally wrong methodology
- Do use specific Geology and Reservoir characteristics
- Do prospect risk assessment on technical criteria
- Takes time and commitment
- Multiple Billions of $’s are about to be invested - so it’s time to start doing it properly with TECHNICAL CREDIBILITY