

NCEO - Innovation In Earth Observation Services

"Zest for Enlightenment"

View From The City

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Geodat&MundoCart 1979-1984





Research

- Finance, Biodiversity and Managed Ecosystems: Where's the Data?, Chiara von Gunten and Dr Malcolm Cooper, 2011
- Finance And Water: Where's The Data?, Leonor Fishman and Dr Malcom Cooper, 2010
- Finance and Forestry: Where's the Data?, Stephanie Rochford and Dr Malcolm Cooper, 2010

Natural Environment Research Council, Financial Services Knowledge Transfer Network and Z/Yen Group



Forests

Carbon balance accounting, carbon tracking and quantification of carbon sources, including that within:

- above and below ground biomass
- litter
- dead wood
- soil organic matter

Robust, regular, standardised measurements to develop:

- forest bonds
- expansion of the carbon market
- forest indices
- support for sustainable forestry





Water

WATER DATA	Agriculture and Fishery Use	Hydropower	Industrial Use	Water Industry, i.e. supply and sewerage
Precipitation	✓	✓		✓
Water Rights	✓	√	√	✓
Flow rates	✓	✓	✓	✓
Flooding	✓	✓	✓	✓
Groundwater abstraction	✓	0.	✓	✓
Upstream abstraction	✓	√	√	✓
Desalination volumes	✓		✓	✓
Quality	√		√	√
Evapo-transpiration rates	✓	✓		✓
Effluent discharge	✓		✓	✓



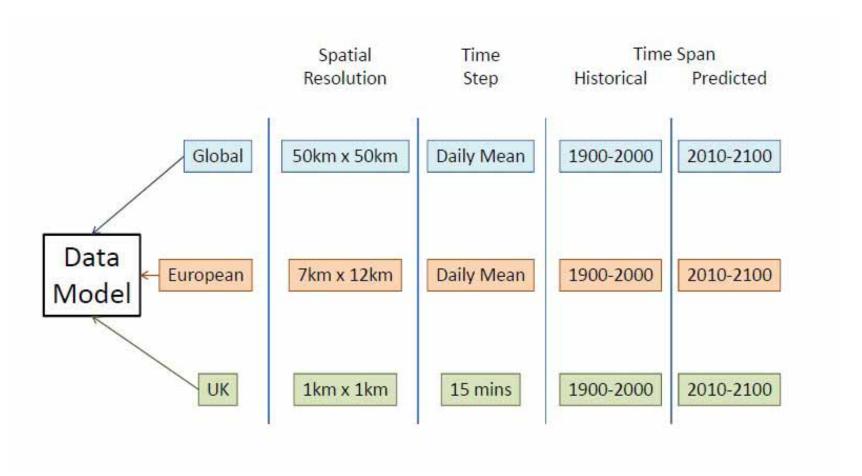


Biodiversity & Ecosystem Services

- Markets for BES currently small in size and high degree of uncertainty
- Confusion between "managed" (transformed by human activity) and "unmanaged" (pristine)
- Tied to land
- Need for regulatory frameworks
- Need for metrics and valuation methods
- Speculation habitat/biodiversity offsets may be an initial big market



Global Snapshot



Source: Neil Runnalls, CEH



Opinion

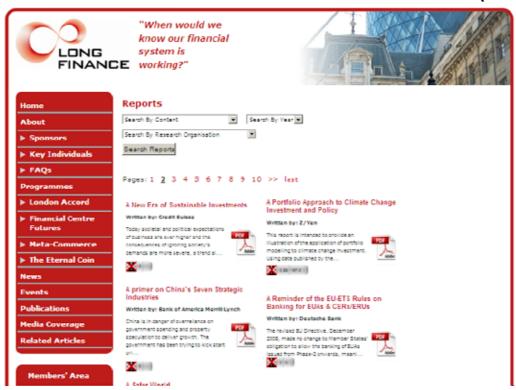
- Financial services traders and guarantors need:
 - global, implying broad but shallow
 - > regular, implying service
 - reliable, implying comparability over accuracy
- Financial services investors and corporations need:
 - ➤ local, project periodic and accurate



Active Discussion

«Il y a des fleurs partout pour qui veut bien les voir.»

Henri Matisse (1869-1954)





www.longfinance.net



Thank you...



Knowledge Transfer Network

Financial Services

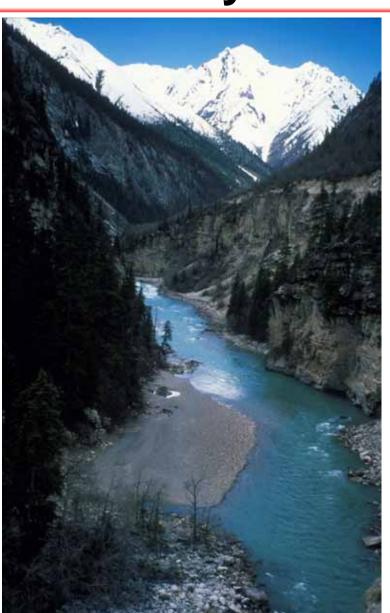


Image courtesy of IFAW/Future Generations