# K&C 9: temperate forests (but not really)

Objectives:

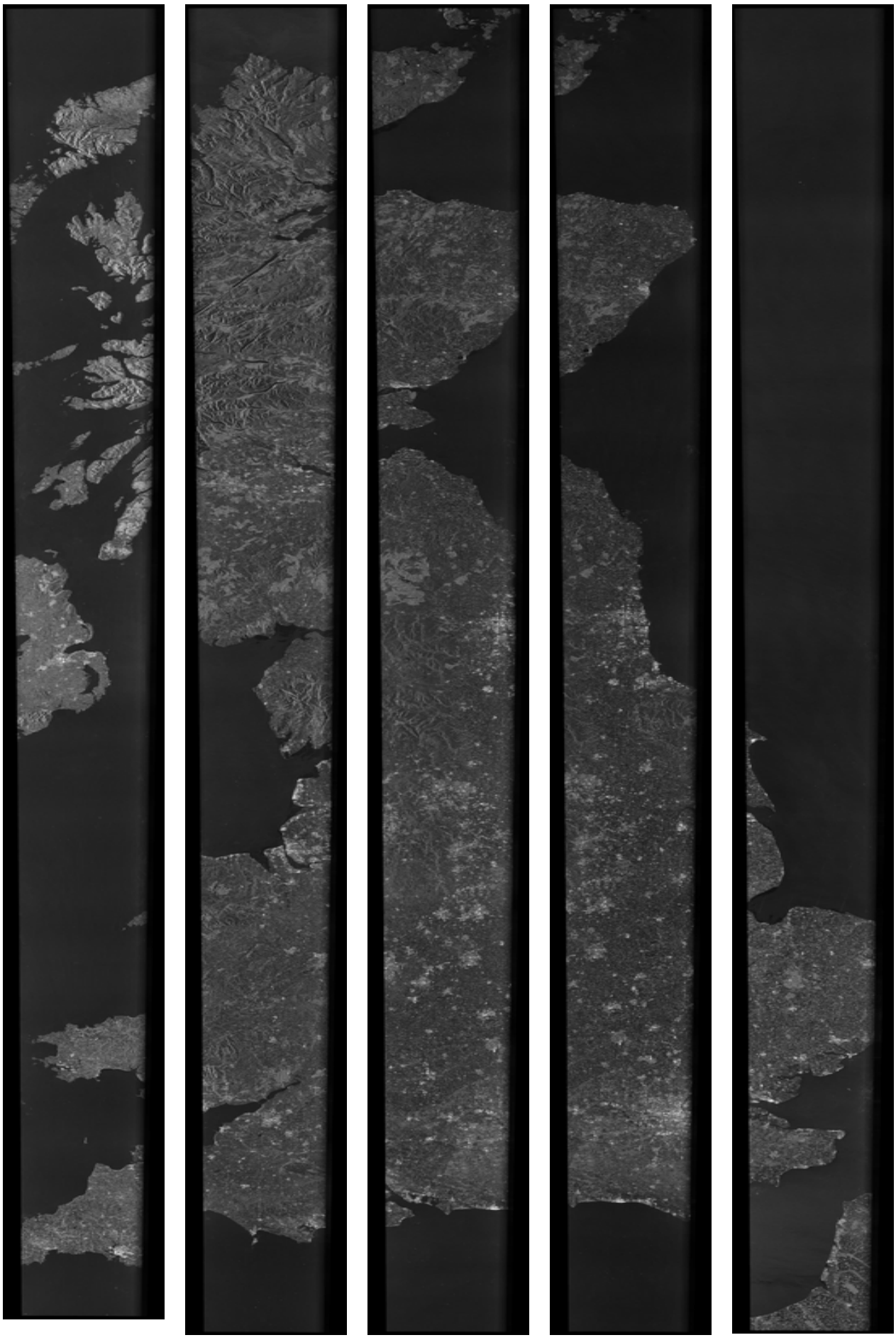
1. Mapping managed forests at national scale, and assessing the accuracy of mapping of clear-cut maps.
2. Estimating age/biomass structure.
3. Apply to carbon sequestration studies.

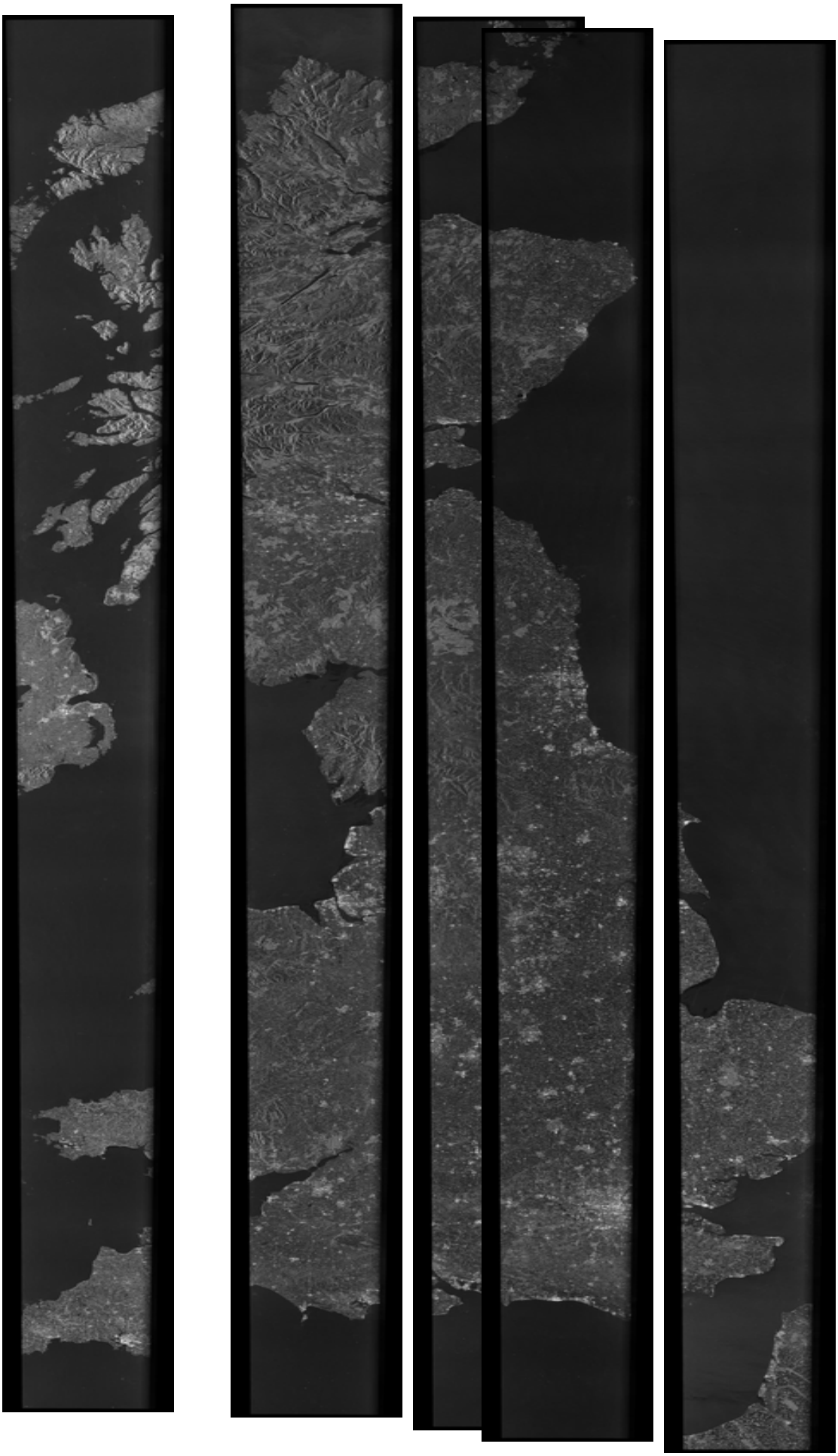
Development of work already done and reported with JERS-1.

# Approach

UK and French managed forests

- In UK, Use of Forest Commission GIS to learn what is possible.
- Applying to non-FC forest cover.
- Assessing implications for carbon sequestration at national (England, Scotland, Wales) scale.

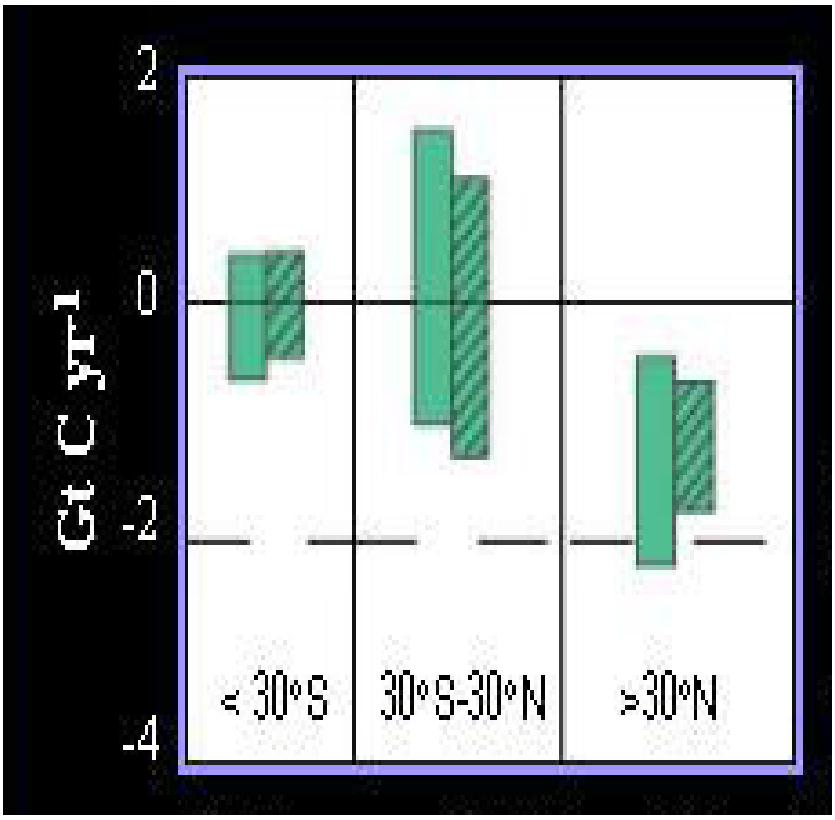




# Status

- Priorities change (REDD)
- Context (UK developments)
- Funding

# Current knowledge on carbon sources and sinks (from atmospheric inversions)




Land carbon sinks (<0) and sources (>0) for the 1980s (plain bars) and for 1990-1996 (hatched bars) (Heimann et al., 2001)

# Science context

## Transport inversion results for land sink

| Gurney et al. | Jacobson et al. 2002 | | Rödenbeck et al. 2007 | Baker et al. 2003 | | 2006 |
|---|---|---|---|---|---|---|
| | 1992-96 | | 1992-96 | 1992-96 | 1996-99 | 1992-1996 |
| *Transport Model* | 12 Models T3L1 | | 12 Models T3L1 | TM3 | TM3 | 12 Models T3L2 |
| *Atmosphere Land Flux* | | | | | | |
| S Hem (<20S) | -0.2±1.1 | (0.15) | -2.4±2.0 | 0.0±0.2 () | 0.1±0.2 ( ) | -1.2 |
| Tropics | 1.1±1.3 | (1.5) | 4.2±2.7 | -1.0±0.4 () | -0.8±0.4 (0.3) | 1.6 |
| N Hem (>20N) | -2.3± 0.6 | (-0.7) | -2.9±1.0 | -0.7±0.2 () | -0.4±1.0 () | -2.7 |
| | -1.4 | | -1.1 | -1.8 | -1.3 | -2.3 |

# REDD

- Science support for role of REDD in climate system
  - Vegetation and soils
  - Fire
  - Carbon models
  - Building the science team
  - Support for WWF objectives
- Observational system
  - Where can we best contribute?
- Link to policy

# Programmatics

- Funding
- Staffing

# Plans

- Meeting our K & C commitment as regards temperate forests.
- Switching our effort to the tropical belt – in particular evaluating how L-band can fit within
  - Understanding forest (and soil) dynamics in the tropics
  - National scale REDD accounting systems