

## Role of Earth Observations

- Provides consistent measurements in space and time
- Can provide a consistent historical perspective, to a limited extent
- Allows for future re-processing
- Provides spatial context for specific tracking and accounting
- Multiple sensors for different measurements, some simultaneously
- Measurements of class-information as well as biophysical variables
- Provides forcing data for some models
- Can provide important stratification for strategic placement of projects (less so for national inventories)

## Role of Earth Observations

- EO systems are emerging in programs in countries that would never have been considered 10 years ago
- EO data are becoming more widely distributed and used, even while there still remains considerable proprietary cases
- Data analysis systems are more widely available – low cost and high performance
- Many countries are, or are beginning to, install operational monitoring

## EO, LULUCF, Kyoto

- The role of EO has always been a bit understated
  - Verification mostly, and then with some issues
- Third party verification will require new approaches that the science community is not been introduced to...
- ...Alternatively, TP verification in Kyoto is not what the r.s. community knows – and may not be appropriate for remote sensing products
- EO can drastically reduce costs of measurement and reporting, which can significant implications for “who” can participate
- EO data needs to be operationally available, not just plentiful

## EO and Reporting

- Much has been developed already in previous documents (e.g. IPCC GPs)
  - Aggregate not mapped
  - Very small MMU
- Costs need to be low, or at least low enough to matter
- May provide a means to implement net community accounting

## CERs, TPV etc

- Generally, project (e.g. CDM) “verification” occurs through third parties (accounting firms)
- National emission inventories are “verified” by teams appointed for peer review of national documents
- In both cases, the idea is to verify procedures against a standing *protocol*
- Hence: if you follow the recipe your OK
  - No field validation, no estimate of error bounds,