GLI Workshop Nov. 2001, Tokyo

GLI Science Activities Dec 2000-Nov 2001

Teruyuki Nakajima
Center for Climate System, The University of Tokyo
teruyuki@ccsr.u-tokyo.ac.jp

Updates of GLI project

- Launch?: will be heard from NASDA
- NASDA organization changed: no large effects to GLI project (, so far)
- GLI sensor re-test in Dec. 2000- March 2001
  - Reviewed by Cal. WG (Prof. Y. Senga)
  - Sensor working fine
  - Oversaturation problem
- EOC has tested GAIT/L2 (ver. 0.2) algorithms (Oct. 2001)
- Further budget cut: not significant? (70% in FY2000)
- Ocean color channel saturation: Alternative algorithms
- Definition of extraterrestrial solar flux spectrum
- ATBD writing (A/I, PIs)
- PIs: More work on the next generation algorithms
- Validation system is nearly ready for operation

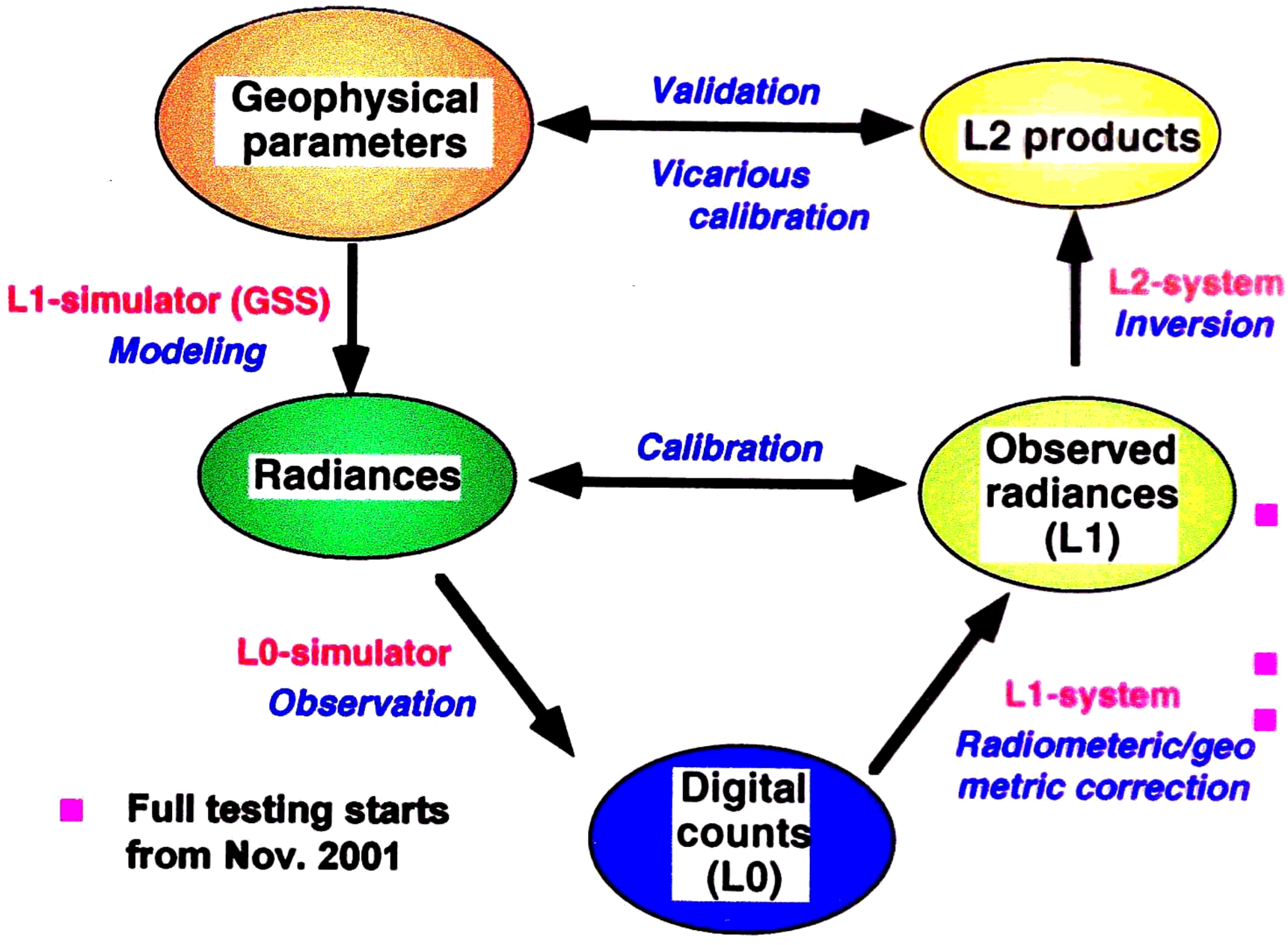
GLI workshop summary (Nov. 2000, Kanazawa)

- **Hardware**
  - Report of non-linearity, saturation etc.
  - More study of PFT results and add more test (A/I, CAL team)
- **Algorithm development**
  - Phase-II with new PIs
  - Report of GLI L2 algorithms ver. 0.0
  - NASDA will check GSD clear sky radiance (A/I, GAIT)
  - NASDA should provide PIs with GLI tools: L2 system distribution; MODIS transform code availability (A/I, EORC)
- Another simulation case, regarding GLI250m data coverage （A/I, EOSD）
- **Cal/val preparation**
  - Site and instrumentation studied
  - Some modification in data transfer flow: Mach-up data (L1A or B?); addition of pixel-by-pixel analysis in Atmosphere validation (A/I, EORC)
- **New project propsals**
  - Reformat GLI data analysis project: Use of OCTS & MODIS data
  - OCTS+POLDER simultaneous analysis project : contact points are Prof. Mukai & a CNES scientist (TBD); NASA OCTS project

Actions for the budget cutback in FY2000

- PI funds cut by 50% to 70% of that of FY1999
- Definition of priorities in validation instrumentations
- Save budget for validation system establishment
  - GAIT - VAL Team interface
  - Network instrumentations
- Still we need more rationale and description of the project for FY2002
- Increase the efficiency of team activities
  - Minimize duplicated activities among teams
  - Define tasks of each team

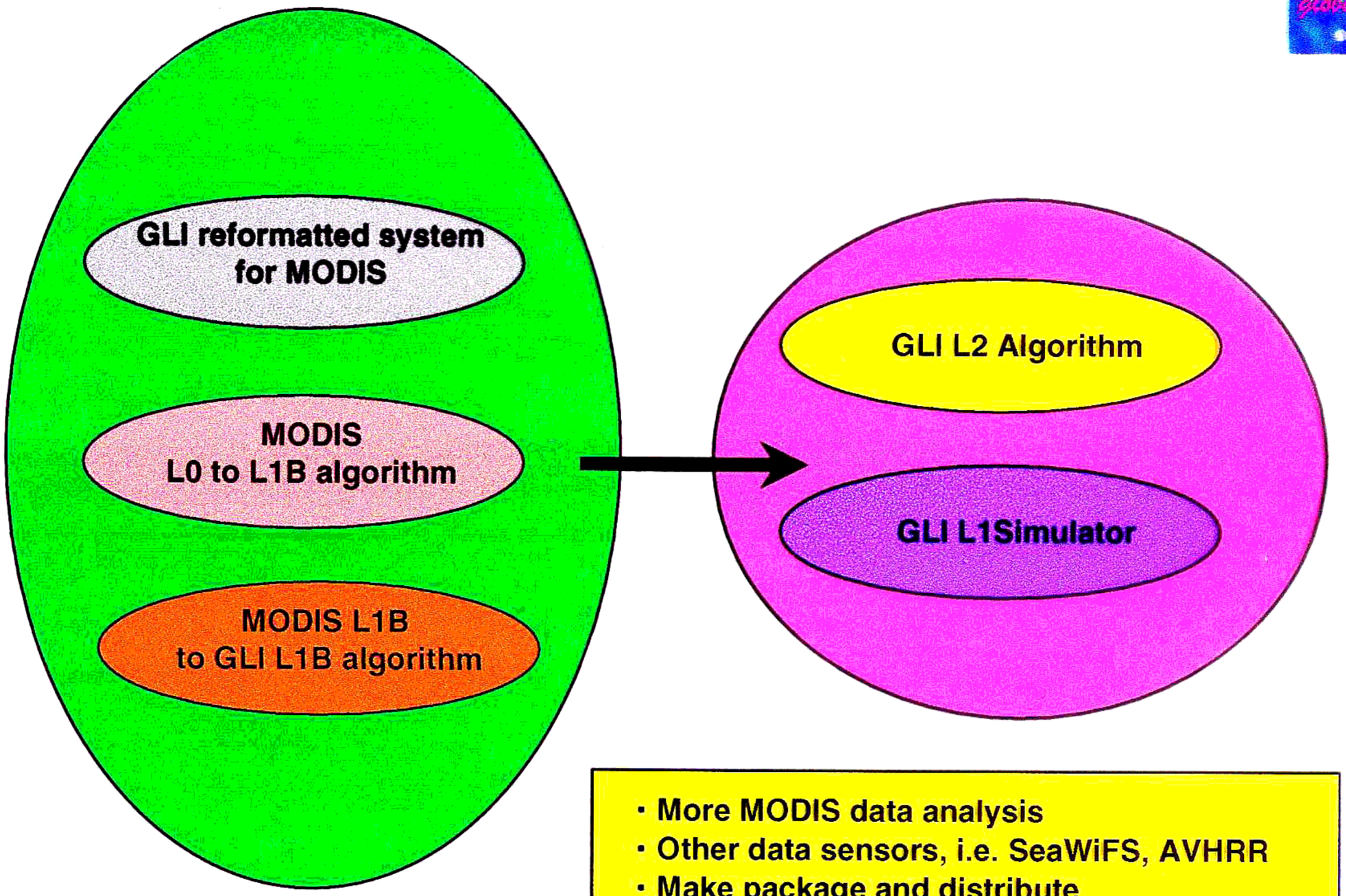
GLI Product Generation Flow



- Full testing starts from Nov. 2001

- How to get L1A or B in EORC for cal/val
- Resample tools
- Pixel-by-pixel L2

GLI L2 system distribution



- More MODIS data analysis
- Other data sensors, i.e. SeaWiFS, AVHRR
- Make package and distribute

Science side concerns are …