
GLI Level 1 Simulator Development Status

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1. GLI Level 1 Simulator Overview

1) Objective

- To confirm GLI Level 1 Processing Software logics correctness
- To confirm GLI Level 1 and Higher Level Processing consistency

1. GLI Level 1 Simulator Overview

2) Outline

- GLI Level 1 Simulator generates GLI Level 1 data, using observation mechanism and radiometric model.

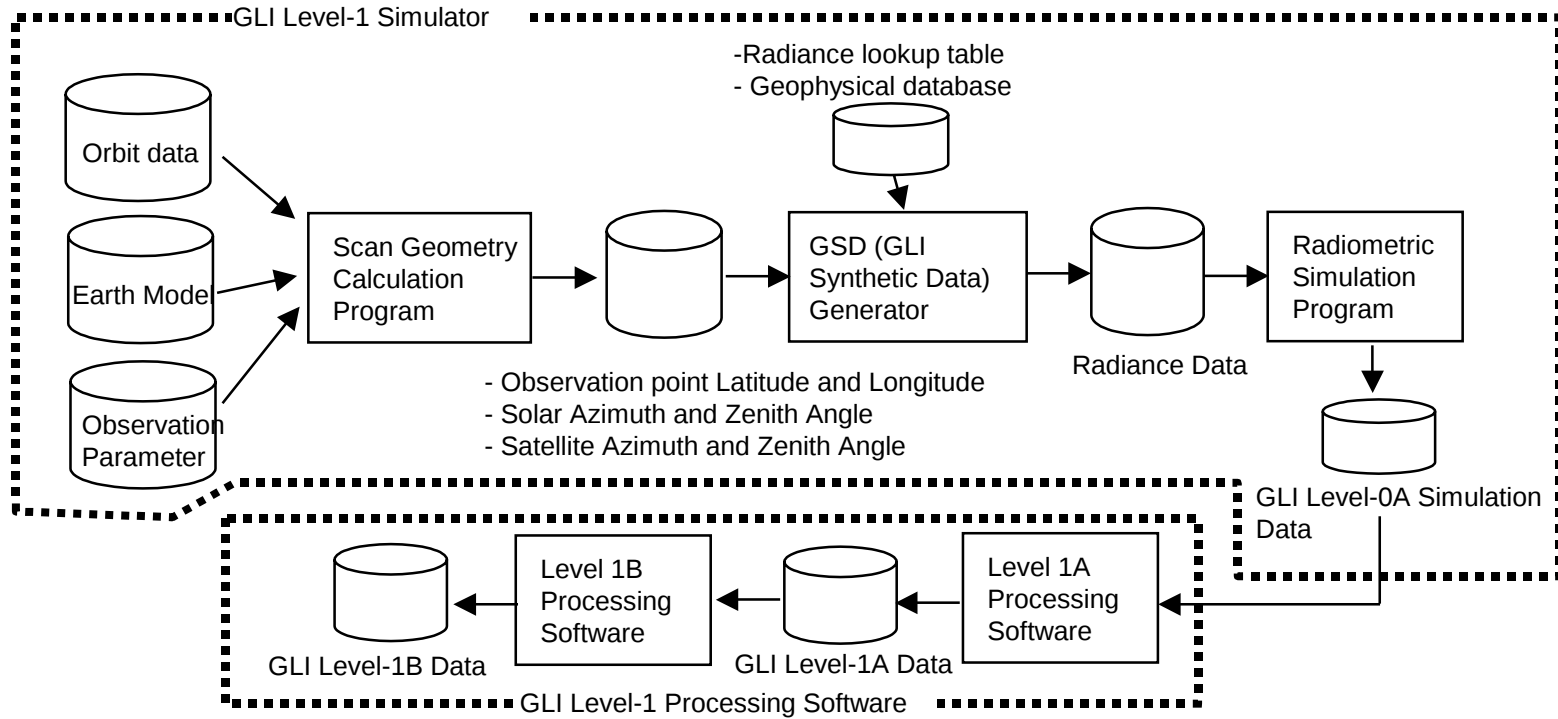


Figure 1-1 GLI Level 1 Simulator outline

1. GLI Level 1 Simulator Overview

3) Function of each program

Table 1-1 Function of GLI Level 1 Simulator

Program	Function	Developed by
Scan Geometry Calculation Program	• Using orbit data, earth model and observation parameter (i.e., observation date), this program generates observation point information; – Latitude and longitude, – Solar azimuth and zenith angle, – Satellite azimuth and zenith angle.	EORC(WTC)
GSD Generator	• Using observation information, radiance lookup table and geophysical database, this program generates radiance observed at GLI aperture.	EORC(Harumi)
Radiometric Simulation Program	• Using radiance data, this program generates GLI Level 0A data by GLI radiometric model.	EORC(WTC)

2. GLI Level 1 Simulator Development Status

2.1. Level 1 Simulator Development Status

- 1) Design Review --- completed in 2000/9E
- 2) Software test ---- completed in 2001/5E
- 3) Simulation data generation ---- completed in 2001/9E
- 4) Software Ver. 1.0 and simulation data --- released in 2001/9E

2. GLI Level 1 Simulator Development Status

2.2. Development Schedule

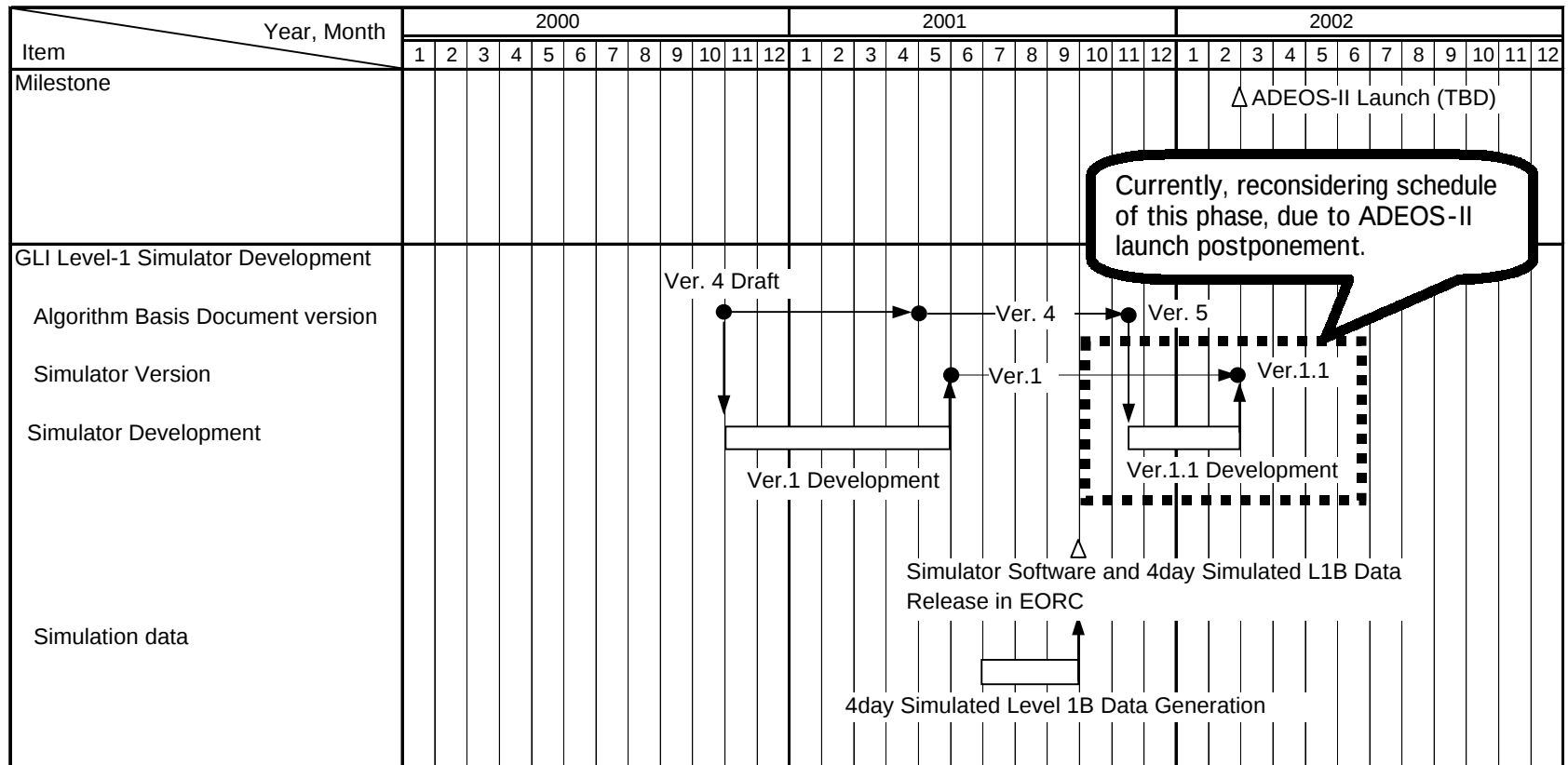


Figure 2-1 GLI Level 1 Simulator Development Schedule