

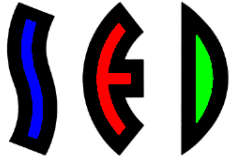
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# ADEOS-II GLI Workshop 2000 Outline of the Latest Version of GSS, and Applications

November 7, 2000

Space Engineering Development Co.,Ltd.

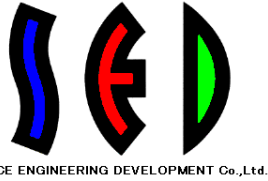
Jun Miyamoto, Akihiko Shinozaki and Hiroko Sugai



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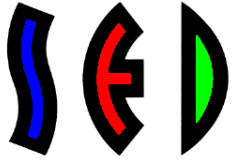
- Background of GSS improvement
- What's GSS?
- Applications of GSS



# Background of GSS Improvement

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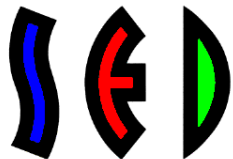
- GSS (GLI signal simulator) is radiative transfer program maintained by GAIT.
- GAIT has used GSS to discuss sensor specifications and to provide radiance data for PI's algorithm development.
- Improving radiative transfer is very important for developing sensors and algorithms because they are affected by performance of radiative transfer.
- Therefore, GAIT has been trying to improve GSS.



# What's GSS?(1)

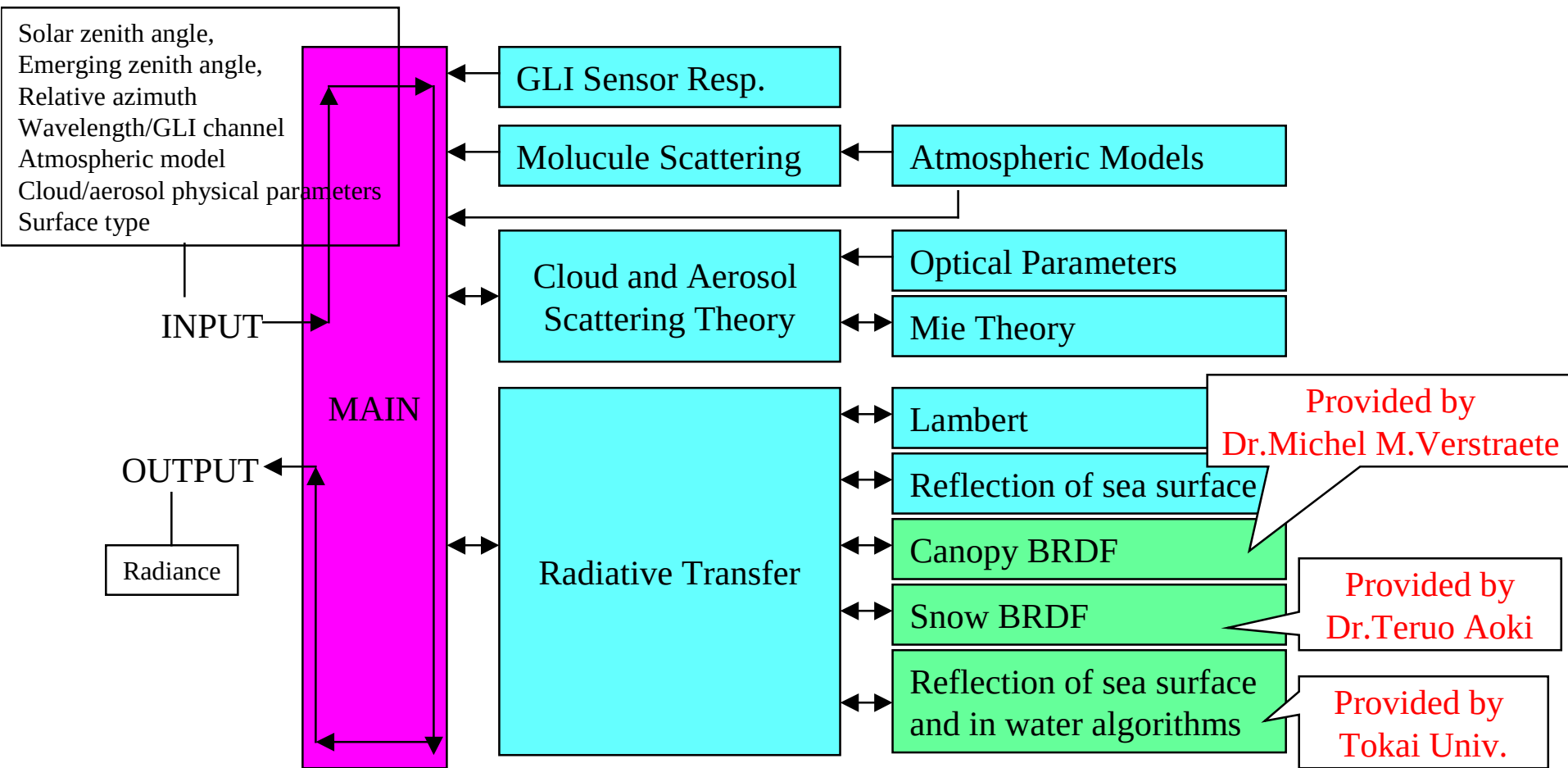
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- GSS consists of a main module and some extension modules. Main of GSS was developed by Dr. Teruyuki Nakajima.
- The latest version of GSS includes extension modules developed by GLI PIs.
- After GAIT installed extension modules to GSS, GAIT made GSS on web page for GLI PIs and NASDA's GLI-related personnel to share radiative transfer program.

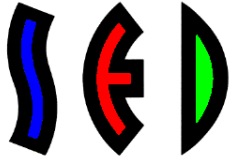


# What's GSS?(2)

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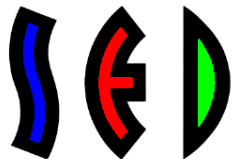
:Modules by Dr.Teruyuki Nakajima : Modules installed by GAIT



# Applications of GSS

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- Considering design of new sensors
- Education data of neural network
- GLI Synthetic Data(GSD)
  - GSD is the simulated radiance data using GSS.
  - The purpose of GSD is
    - To provide opportunity for testing retrieval algorithms or developing new algorithms.
    - To get opportunity for receiving comments on GSS.
  - GAIT issued 5 GSD CD-ROMs up to now.
  - GSD CD-ROMs are available in this workshop.



# Example of GSD

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