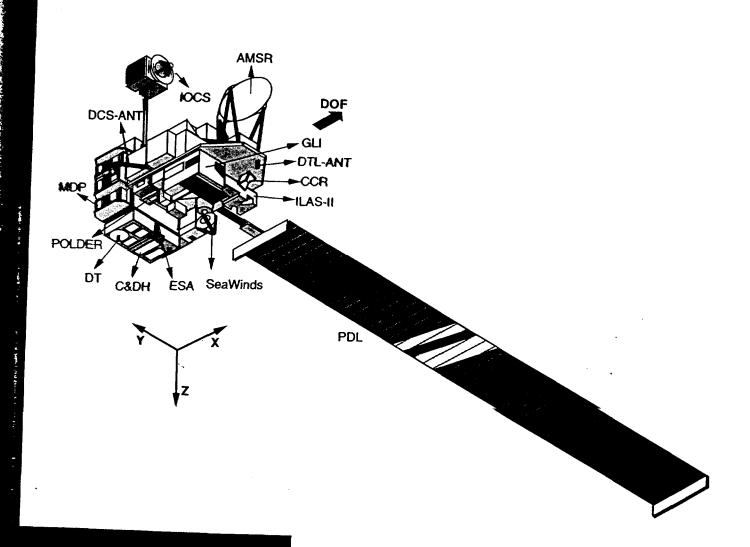
GLI Project Status on ADEOS-II Global Imager (GLI)

Motoaki Kishino (The Institute of Physical and Chemical Research) (GLI Ocean Science Group Leader)

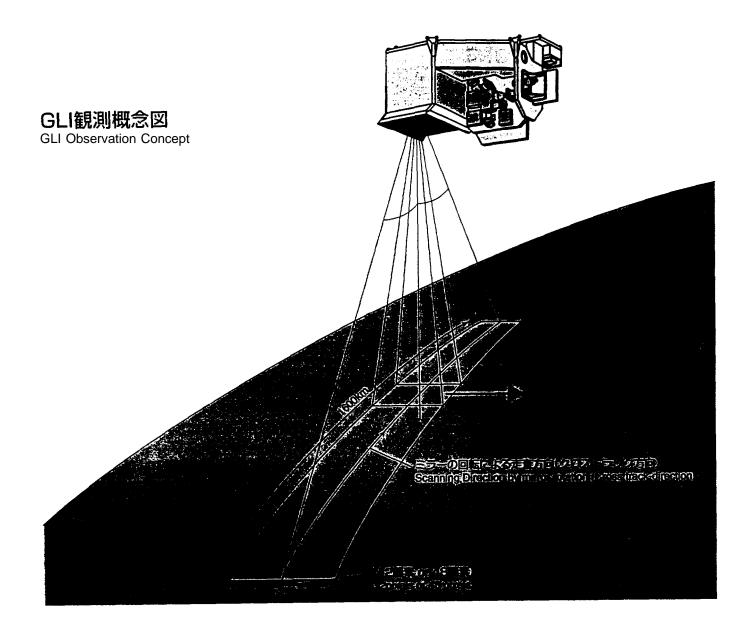
ISSN: 0003-6935

Lasers, Photonics, and Environmental Optics

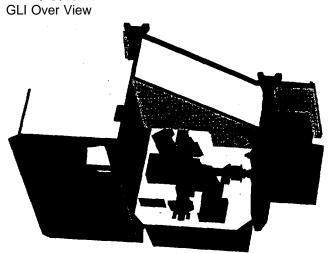




Market Comment of the section of

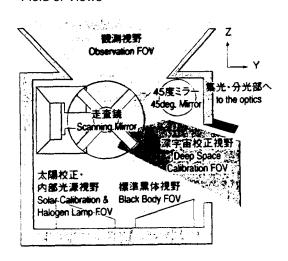






光学系の視野範囲

Field of Views



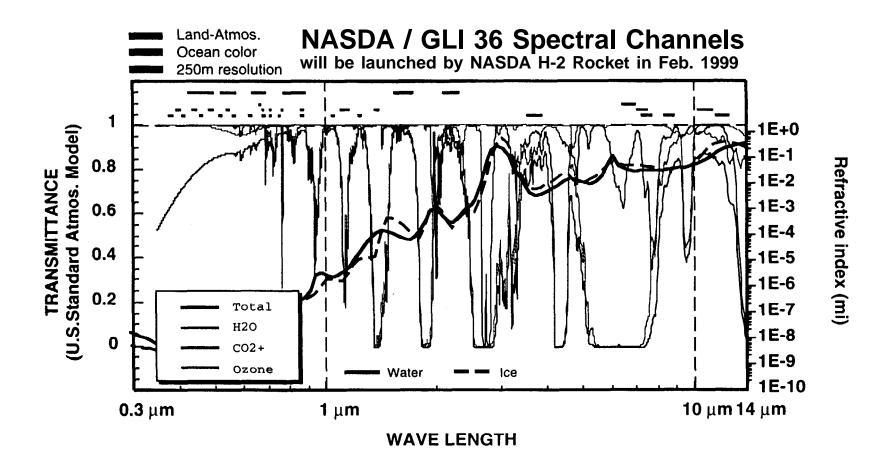
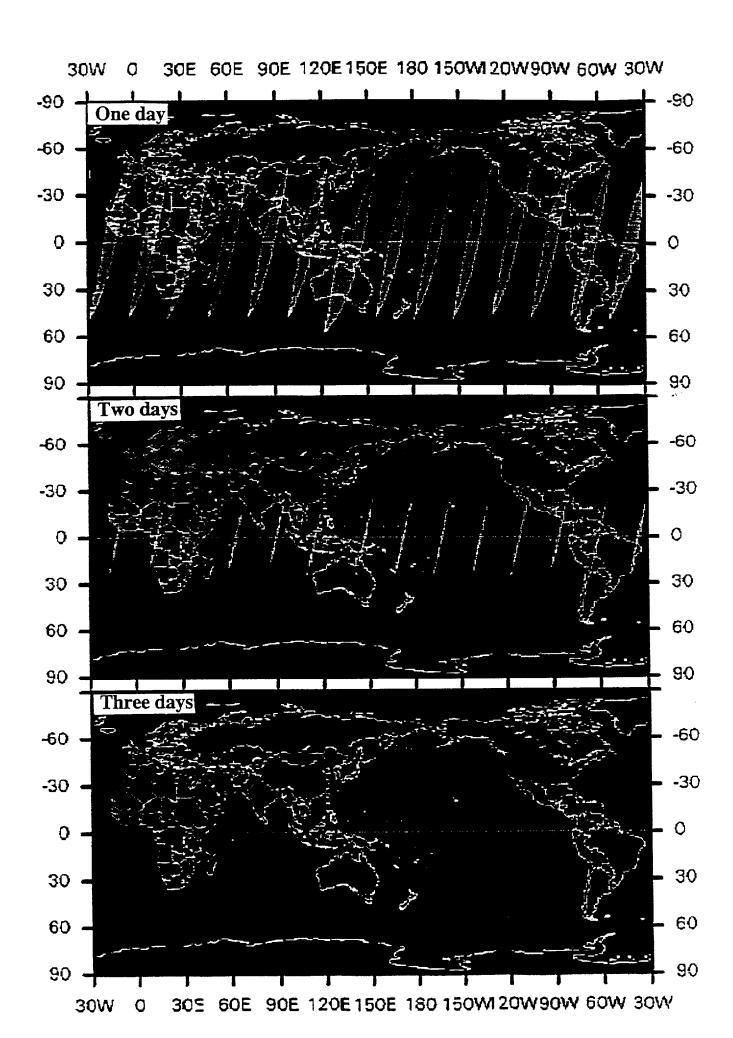
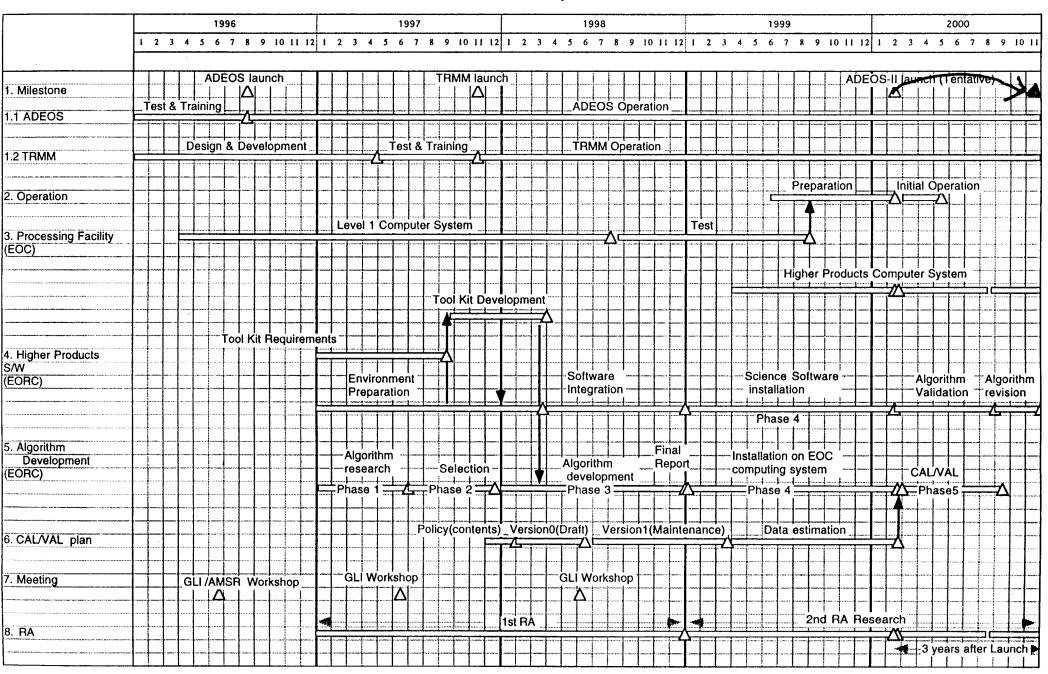
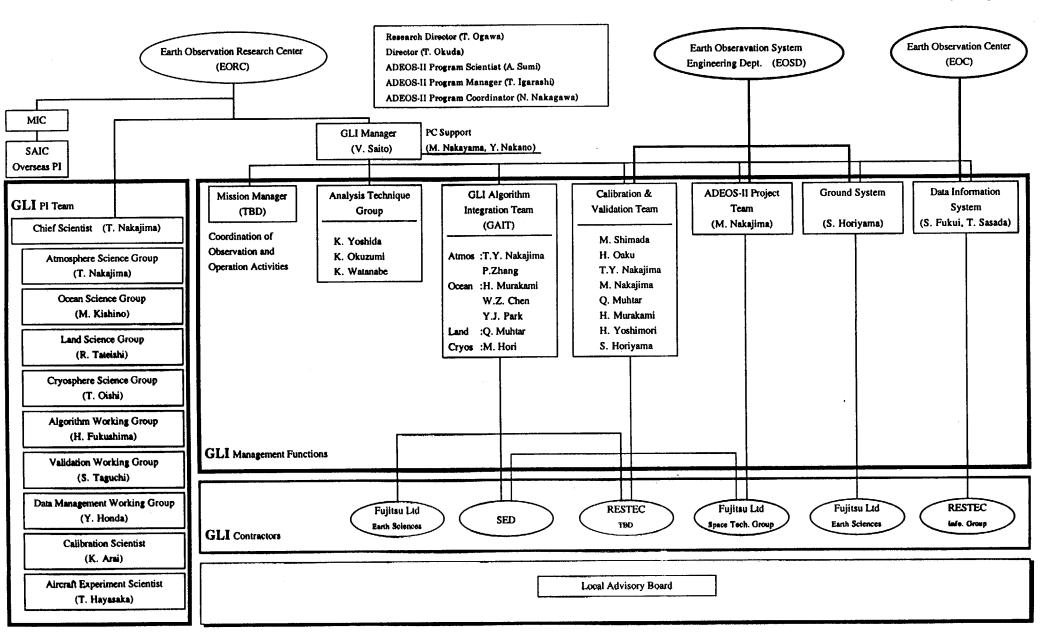


Fig. 21 GLI channels and the atmospheric transmittance (1976 US standard atmosphere model) . .



ADEOS-II Development Schedule





GLI Ocean Channel

VNIR				TIR	
Band	nm	Band	nm	Band	μ m
1	380	9	565	30	3.745
2	400	10	625	34	8.6
3	412	11	666	35	10.8
4	443	12	680	36	12.0
5	460	13	710		
6	490	14	749	A library and	
7	520	15	865		
8	545				

GLIOCEAN Products

Standard Products

Water-Leaving Radiance (nLw, Aerosols) Chlorophyll *a*, CDOM, SS, K490 Bulk SST

Research Products

Accessory pigment (Carotenoid, Phycobilin)

Phytoplankton species (Trichodesmium, Coccolithus)

Natural fluorescence

PAR

Primary production

Absorption of suspended particles

skin SST

Outline of Algorithms for Standard Products

- Atmospheric Correction Algorithm
 - *Improved OCTS A. C. with 749 nm and 865 nm
 - *A. C. in use of Neural Network
- Bio-optical Algorithm
 - *Inverse Method in use of Neural Network for retrieval of Chl. a, SS, and CDOM
 - *Empirical Method for retrieval of Chl. a and K490
- Sea Surface Temperature
 - *Improvement of MCSST for retrieval of

Data flow

online EOC -> EORC (L1A (10%) | km L2A 4 km

Program up date

→ EOC V1: L+6M → EOC v1.2: ... at EORC

V2: L+IAM -> EOC

v3: L+30M → EOC

L2, L3 generation

25% 25% -- L+18M

50% ... 2414

100% 3014

EORC RO C



GLI (Global Imager)

GLI is an optical sensor observing the reflected solar radiation from the earth's surface including land, ocean and cloud and/or the infrared radiation with multi channel for measuring the biologica content, such as chlorophyll, organic substance, vegetation index, and temperature, snow and ice, cloud distribution. These data will

be used for grasping the global circulation of carbon and climate change. GLI will be equipped by <u>ADEOS-II</u> which will be launched by <u>H-II rocket in</u> **2000.**

Contents

--- Last Update: 19 May 1998 ---

Find icons, 藥藥藥, and 企業治.

- Figure
- Organization
- Schedule
- Sensor Specification
- Expected Data Products
- Meetings (updated; September 11, 1997)
- Subgroup Activities
- PI List
- Presentation toolkit
- GLI Signal Simulator (Moved to PI's Door page)
- The Airborne Multi-Spectral Scanner (AMSS)
- GLI Flow Chart
- PI's Door(GLI Signal Simulator. Documents. Status Check)

Figure

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http://www.eorc.nasda.go.jp/ADEOS-I /GLI/gli.html