

ADEOS-II Science Project Status

7 November, 2000

ADEOS-II GLI Workshop 2000

Kanazawa

Yasuyuki ITO

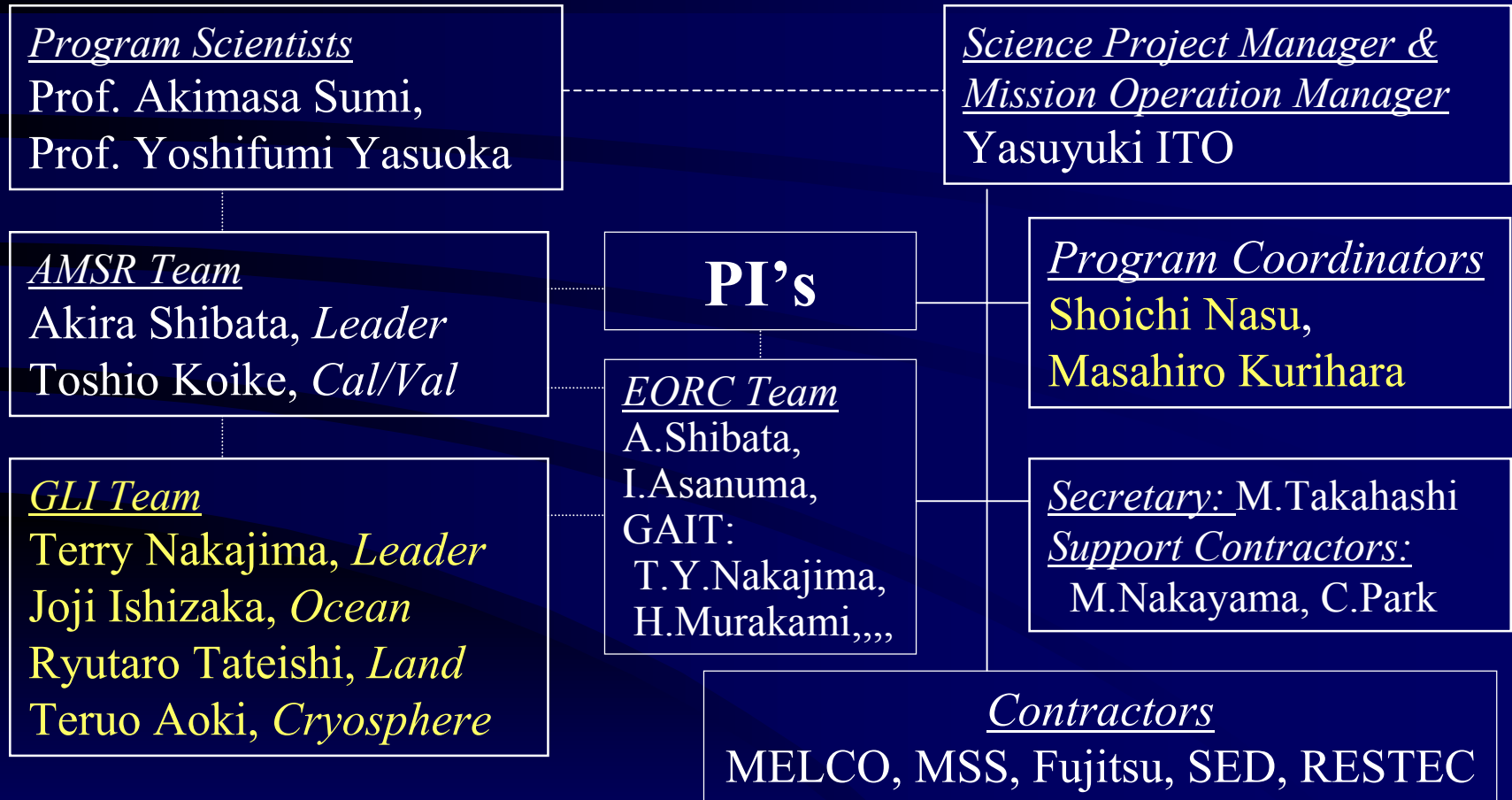
Earth Observation Research Center

Science Project Scope of Work

ADEOS-II Science Project

- Higher-order Algorithm Development
- Calibration & Validation
- Processing System Development
- Science Team

Science Project Organization



Science Project Organization

Cal Scientist : Prof. Yasuhiro Senga,
Tokai Univ.

- Post PFT Special Test Plan
discussed at Cal W/G.

Val Scientist : Prof. Tamio Takamura,
Chiba Univ., CeRES

EORC Cal Team Leader : Dr. I. Asanuma

ADEOS-II Geophysical Products

AMSR < same for AQUA/AMSR-E >

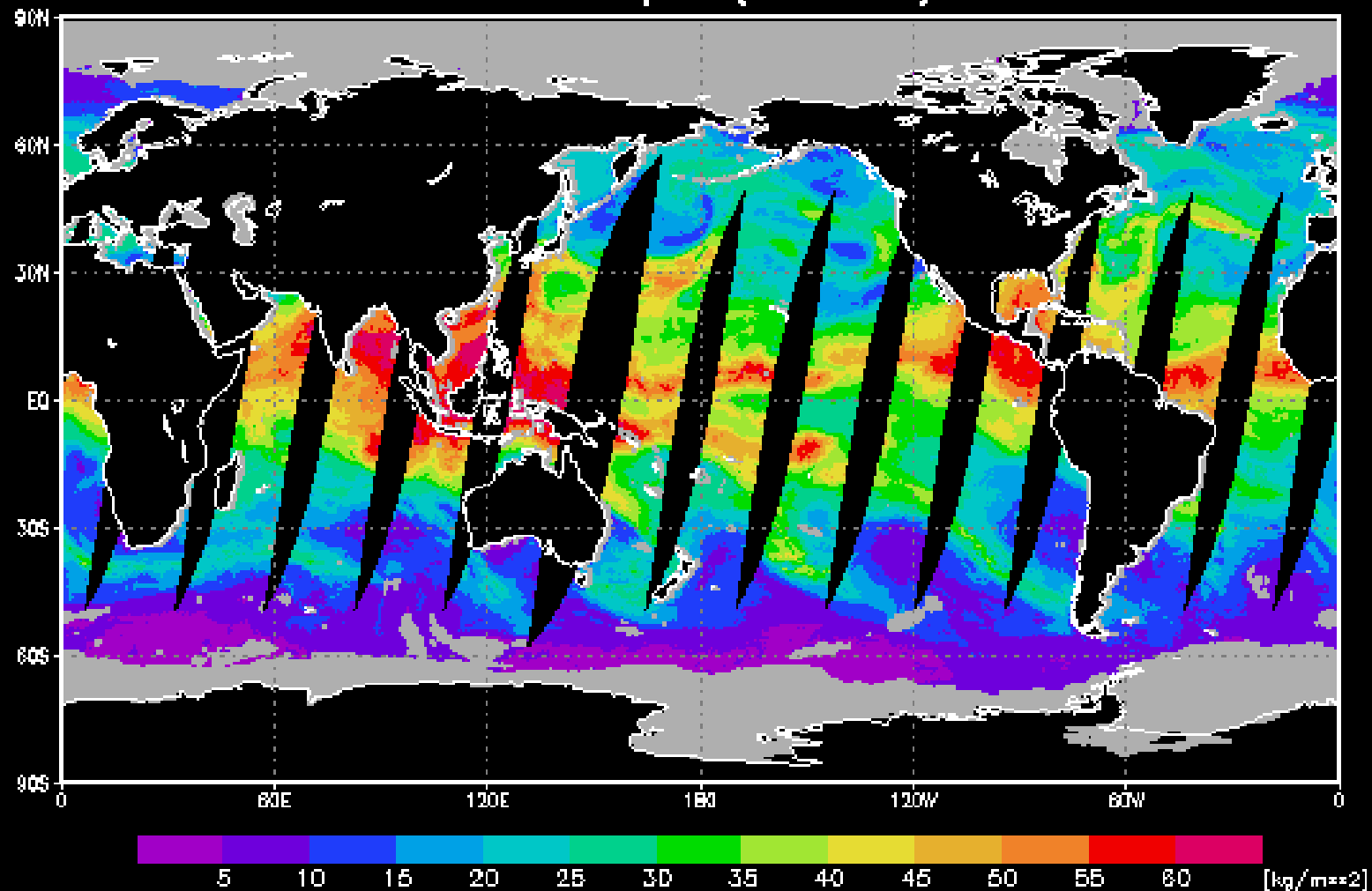
- Water Vapor
- Cloud Water
- Precipitation
- Sea Surface Wind Speed
- Sea Surface Temperature
- Sea Ice
- Snow Depth
- Soil Moisture (Research Product)

AMSR Level 3 Standard Product - Water Vapor

ADEOS-II AMSR

1998/06/24 Descending

Water Vapor (Takeuchi)

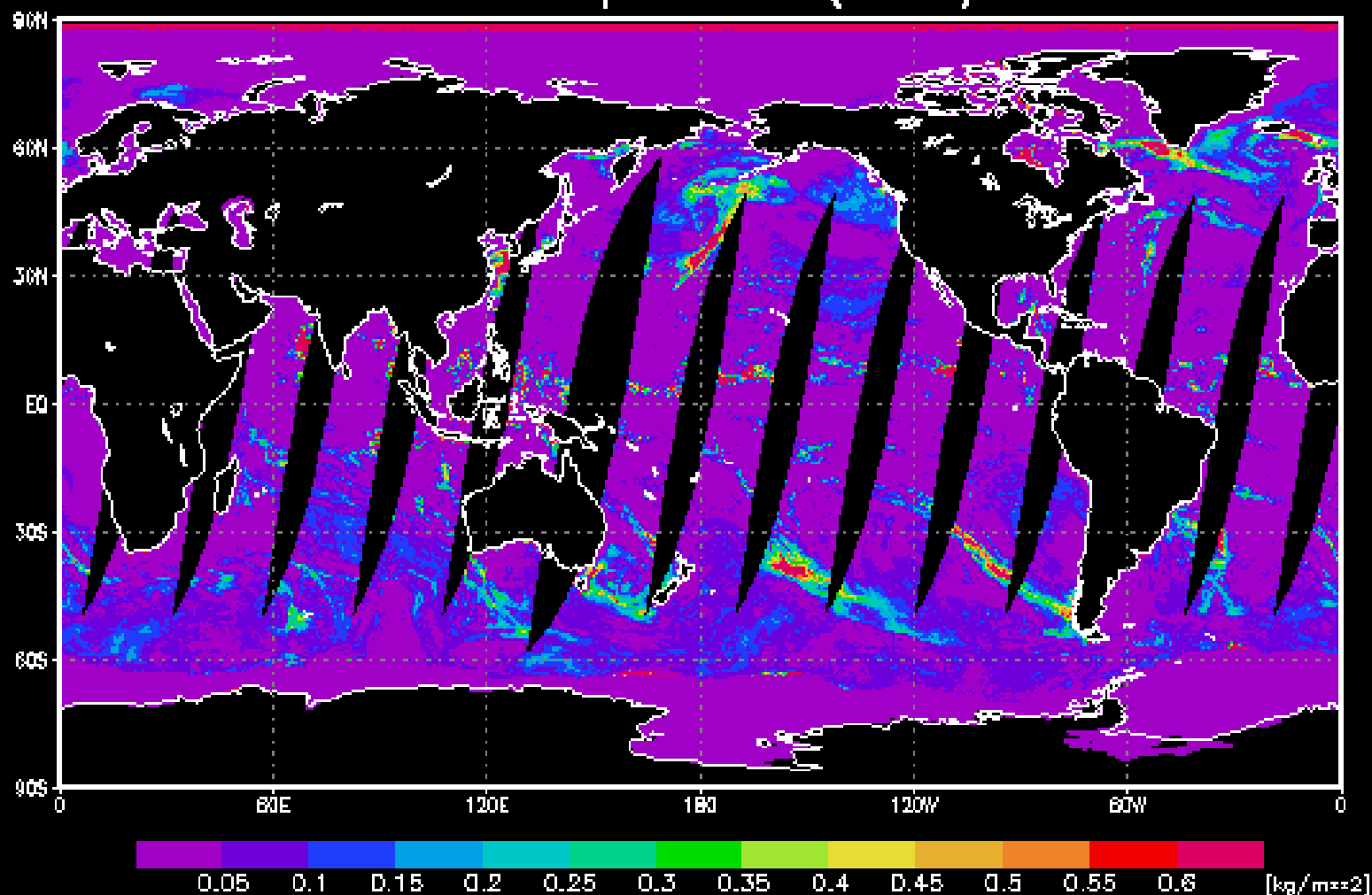


AMSR Level 3 Standard Product - Cloud Liquid Water

ADEOS-II AMSR

1998/06/24 Descending

Cloud Liquid Water (Wentz)



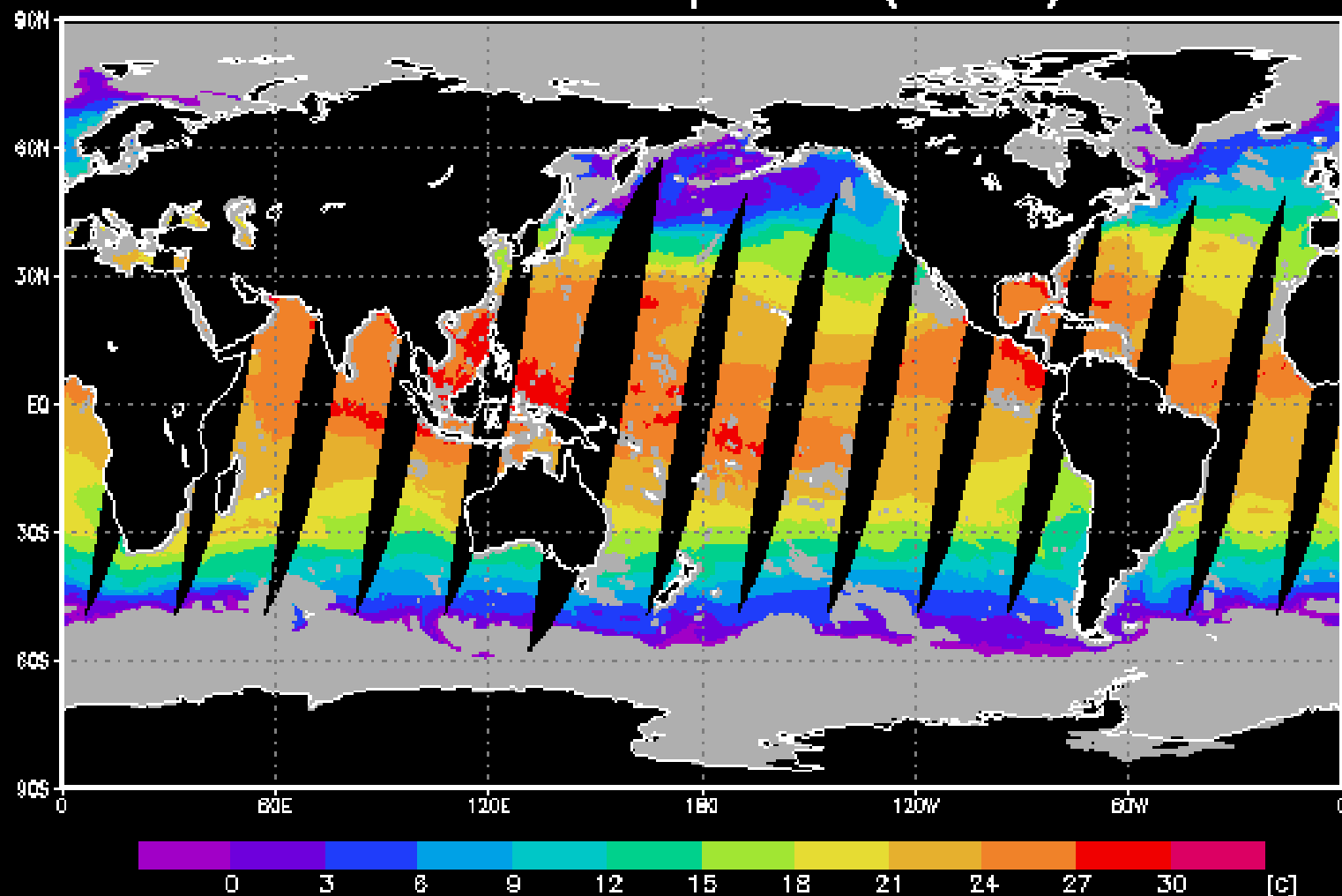
NASDA/ECRC (2000 Sep 14 14:02:00 JST)

AMSR Level 3 Standard Product - Sea Surface Temperature

ADEOS-II AMSR

1998/06/24 Descending

Sea Surface Temperature (Shibata)



NASDA/EOIRC (2000 Sep 14 14:02:24 JST)

ADEOS-II Geophysical Products

GLI <overview>

- Aerosol parameters
- Cloud parameters
- Chlorophyll-a
- Colored Dissolved Organic Matter
- Suspended Solid weight
- Sea Surface Temperature
- Vegetation Index
- Snow Grain Size & Impurities

ADEOS-II Geophysical Products

SeaWinds

- Sea Surface Wind Vector

POLDER

- Cloud and Aerosols parameters, etc.

ILAS-II

- Ozone, HNO_3 , etc.

(ARGOS-DCS)

Science Projects at EORC

- JERS-1 : data 92-98
- ADEOS : data 96-97
- TRMM : data 98-
- ***AQUA/AMSR-E : Launch Jul. 2001 ?***
- ***ADEOS-II : Launch Nov. 2001 ?***
- ALOS : Launch 2002
- *GCOM : data 2002 - 2017 (TBD)*

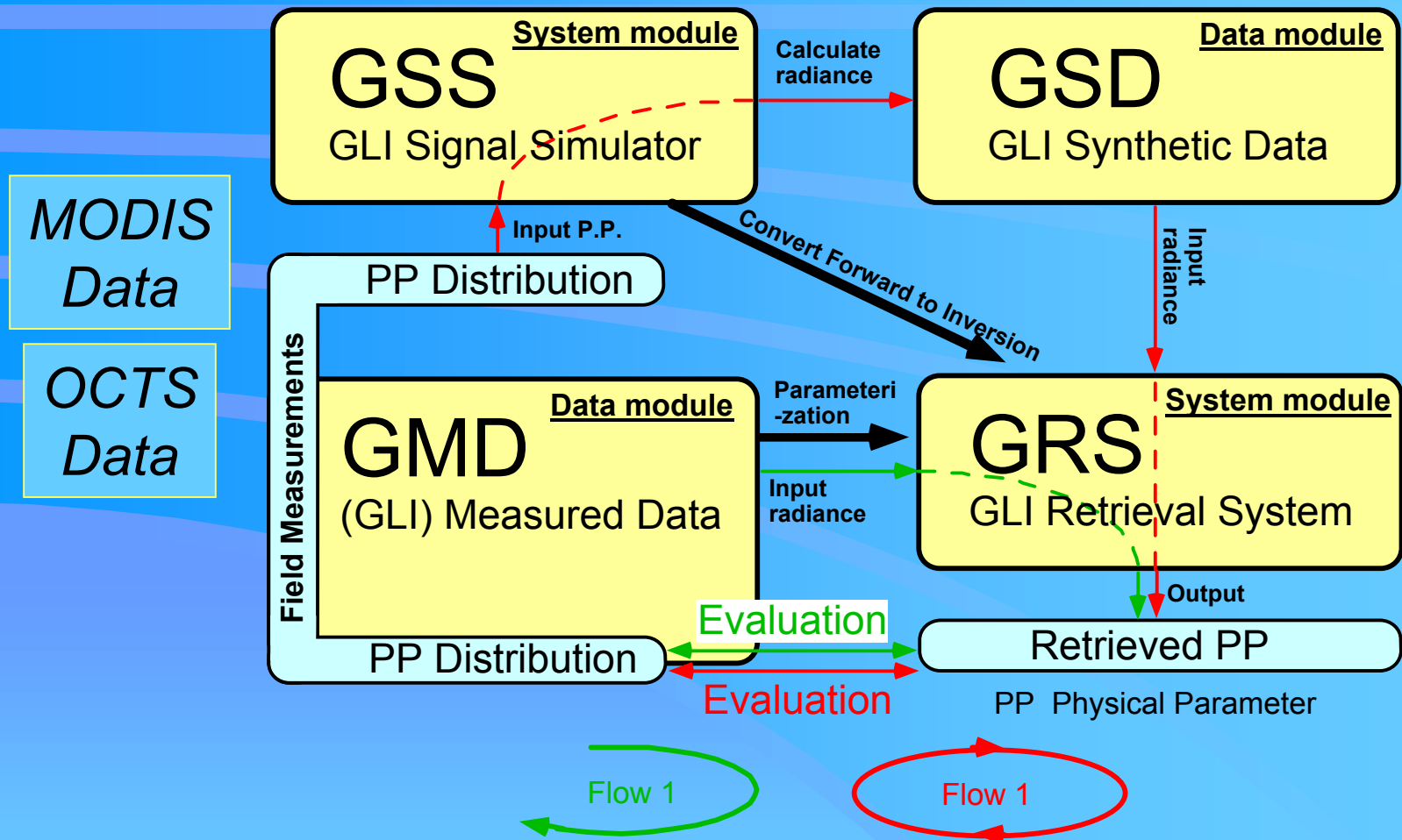
Algorithm Development

- Standard algorithms from PI have been received, tested and integrated at EORC environment.
- Ver.1.0 algorithm/software, to be used for the initial products for public from EOC +12 months after launch, will be delivered from EORC to EOC +6 months.

Calibration & Validation

- EORC is responsible for (Cal)/Val.
- Basic Cal/Val plan completed.
(PI's web ; having network security problem)
- Cal/Val implementation plan:
 - JFY2000 documentation almost completed.
 - JFY2001 to be defined more in detail soon.
- Needs cooperation worldwide.

GLI Algorithm Development Tools



MODIS data utilization

Plans to use MODIS data :

- As simulated GLI data as a part of pre-flight algorithm validation activities.
- To receive DBS and create LAC for Asian ocean studies.
- MODIS => GLI Format Change Software developed and being of importance.

GLI 250m resolution data

- Data acquisition analysis in progress.
- Data availability heavily depends on the Data Relay Satellite utilization.
 - ESA's "ARTEMIS" and NASDA's DRTS launch schedule.
 - ARTEMIS Link budget at Ka-band to be confirmed in the test operation.
- Thermal design margin for X-band Tx to be confirmed in the initial check-out.

GLI PFM Dynamic Range Issue

- Inappropriate specification at some of the ocean channels found in PFT data analysis.
- Hardware and Software efforts being made.
- Conclusion to make software efforts made in September.
- English translated report issued.