

ADEOS-II/GLI Validation System

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Cal/Val Session GLI Workshop

Akira Mukaida , RESTEC akira@restec.or.jp

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The System Overview

- *In situ* data will registered to GTDB.
- MUD start from L1B.
- L1B MUD processed to L2 MUD.
- Processing status will managed by MUDB.

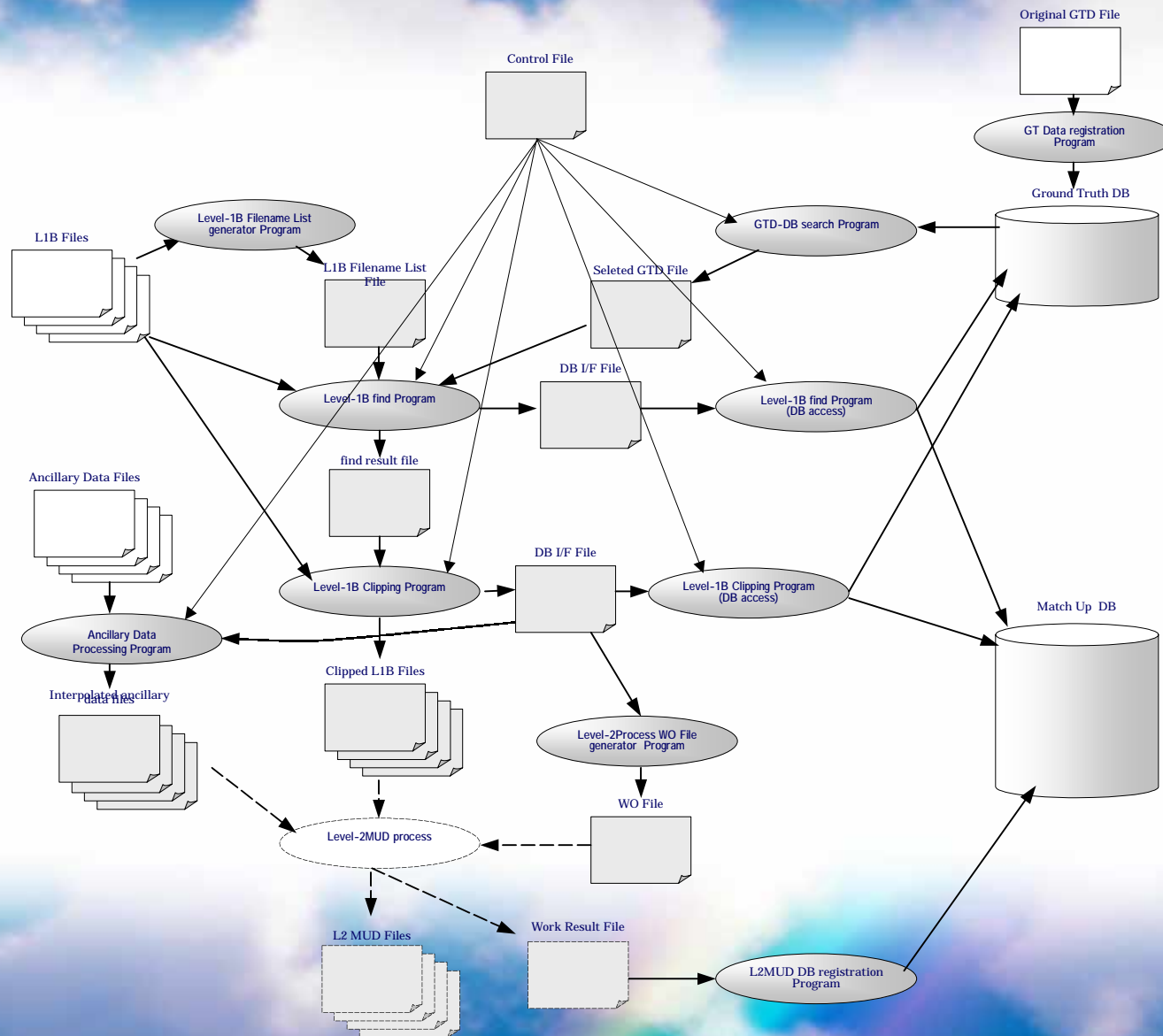


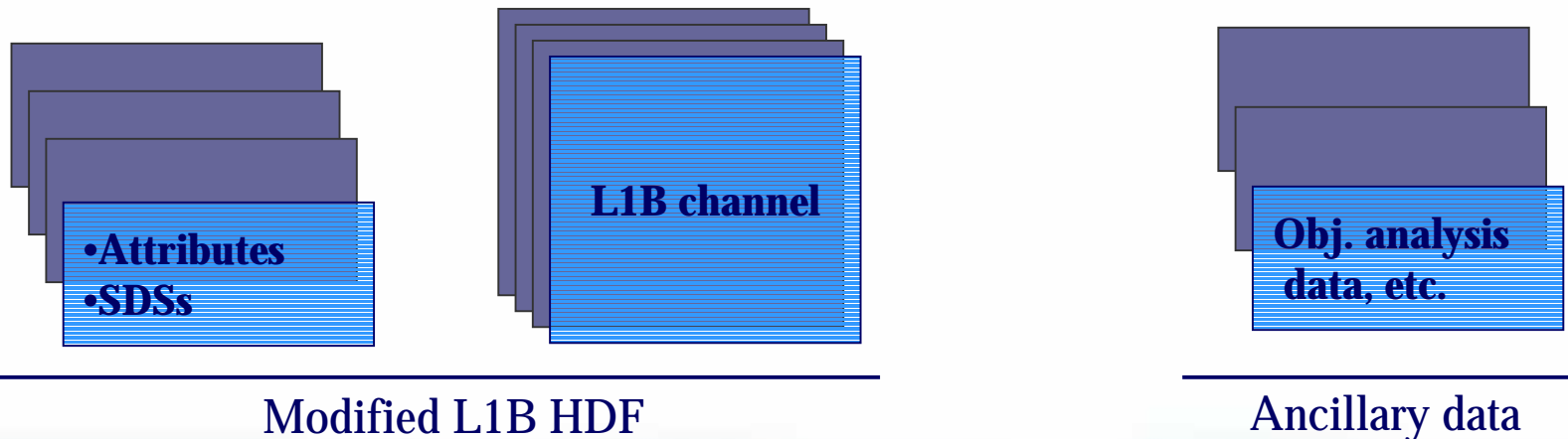
Figure.1 : MUD Process Flow

GTDB/MUDB

- GTDB will manage *in situ* data.
 - The data files will be reformed into “SeaBASS” like format.
 - Meta data (Header) + GT data
 - Meta data and other information will registered to the DB.
- MUDB will store every processing status and collocation conditions.

L1B MUD generation

- Reduced Image size of L1B (125x125).
- Attributes from original L1B added to GA.
- Scan geometry inf. are interpolated for every pixel.

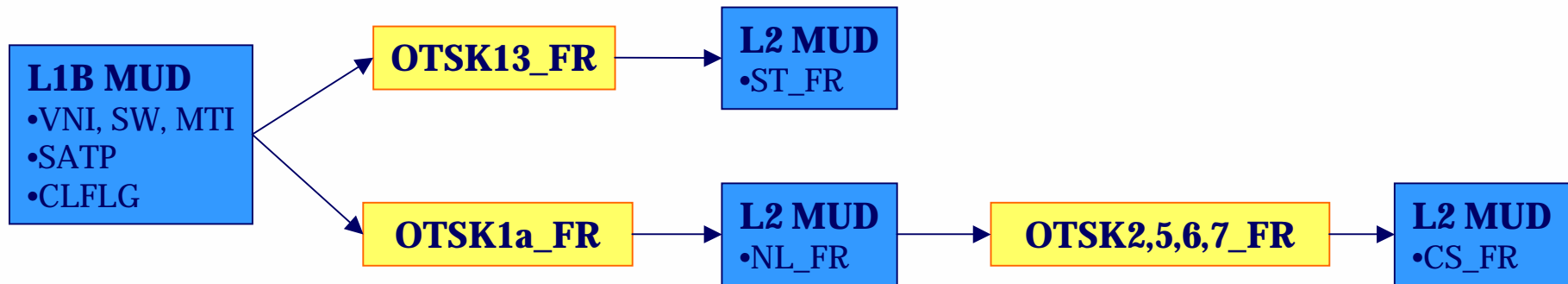


L1B MUD generation (Cont.)

- NO capability for L1A MUD (from A.I.).
 - L1A > L1B software for MUD will be required.
 - Too much modification required for the entire system and MUD format.
- Important to prepare L1A for reprocessing.
 - Original L1A for valid L1B MUD will be archived in EORC.

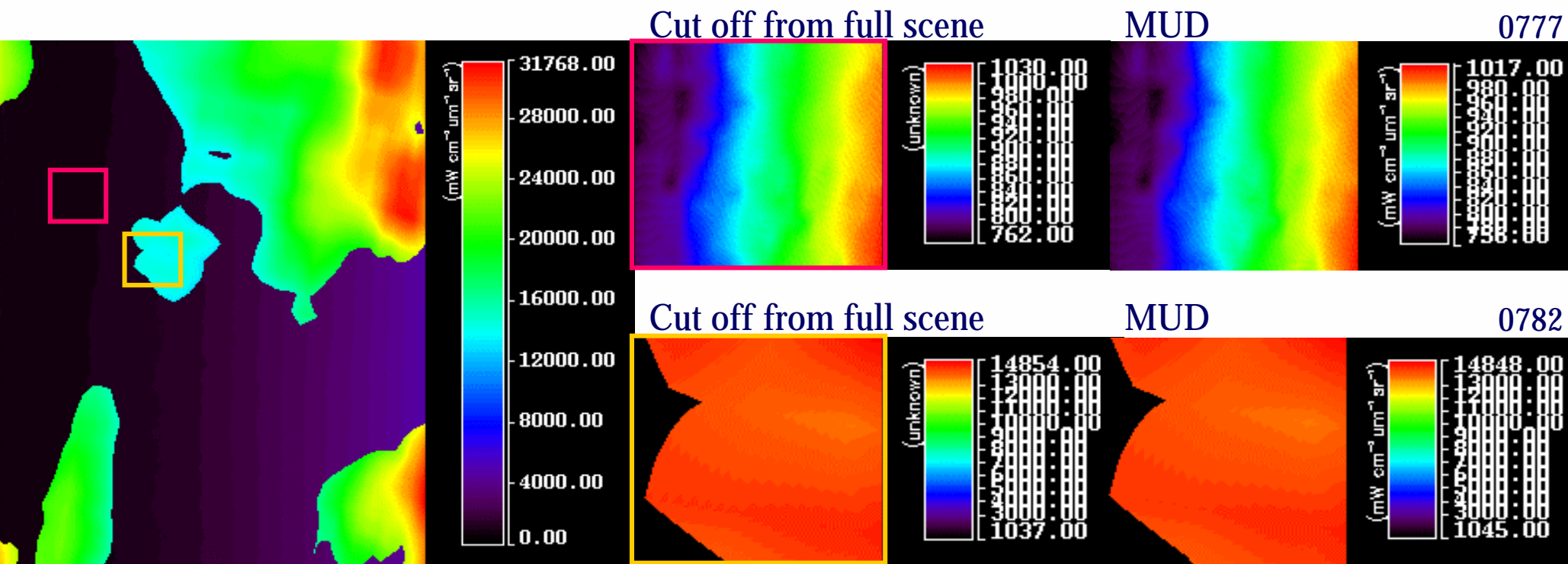
L2 MUD Processing (cont.)

- Ocean products requires L2 Processing.
 - SST and Ocean Color products.
 - Modification finished.



Comparison of NL_FR 2nd Check

nLw460



Original File; A2GL10006031516OD1_ONLFR0200000000100000.00

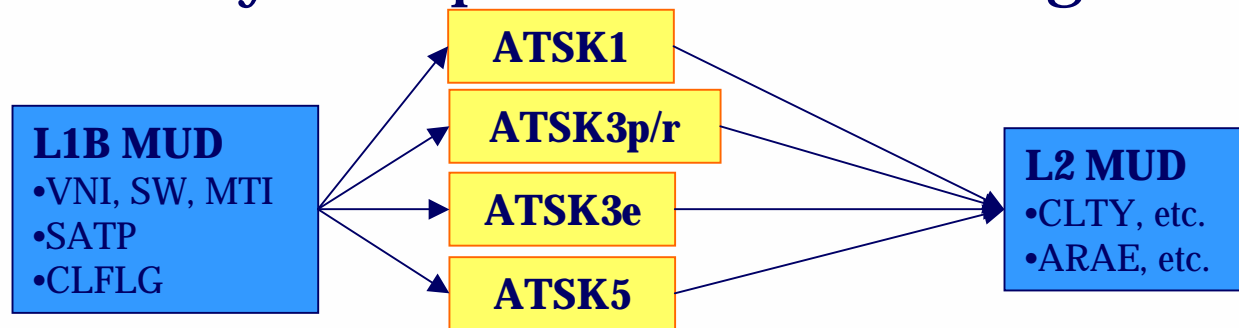
0777;
Center Pixel on Original Image; 291
Center Line on Original Image; 507

0782;
Center Pixel on Original Image; 447
Center Line on Original Image; 688



L2 MUD Processing (cont.)

- Atmosphere products requires L2 Processing.
 - Full resolution(1km) L2 MUD (not available for ATSK5).
 - Statistical analysis required to evaluate segment data.



- ATSK1, ATSK3e/r/p and ATSK5 finished.
- Now working for ATSK3r and ATSK5

L2 MUD Processing (cont.)

- Ancillary data required for the OTSK1a, ATSK1, 3e/r/p, 5
- The data is like...
 - Clipped off for MUD size.
 - Interpolated by same method of standard product (temporally and spatially).
 - Full layer for following parameter.
 - SS Pressure
 - T, U, V, Z
 - Water Vapor(Value, Profile), Ozone.

Data Distribution

- Following set of MUD can be distributed.
 - L1B MUD, L2 MUD
 - Ancillary Data
 - TBD for the software and tools.
 - Permitted to PI.
- In situ data
 - Validation Group PI will collect the data and QC.
 - NASDA/EORC(Harumi) will also be contact point.
 - Contact point address will be informed soon from WEB.
 - *In situ* data follow the policy of the data provider.

Conclusion

- Validation Data Generation System is developed.
 - Still have some work on L2 MUD processing.
- MUD will distributed to PI.
- In situ data distributing policy will follow data providers.
- Providing software need to be determined.
- Contact point will soon be announced.

Near Future Plan

- Data generating trial will start.
 - For NL, CS start just after this WS.
 - For ST will start mid. Dec.
 - For the atmosphere start from Jan.