

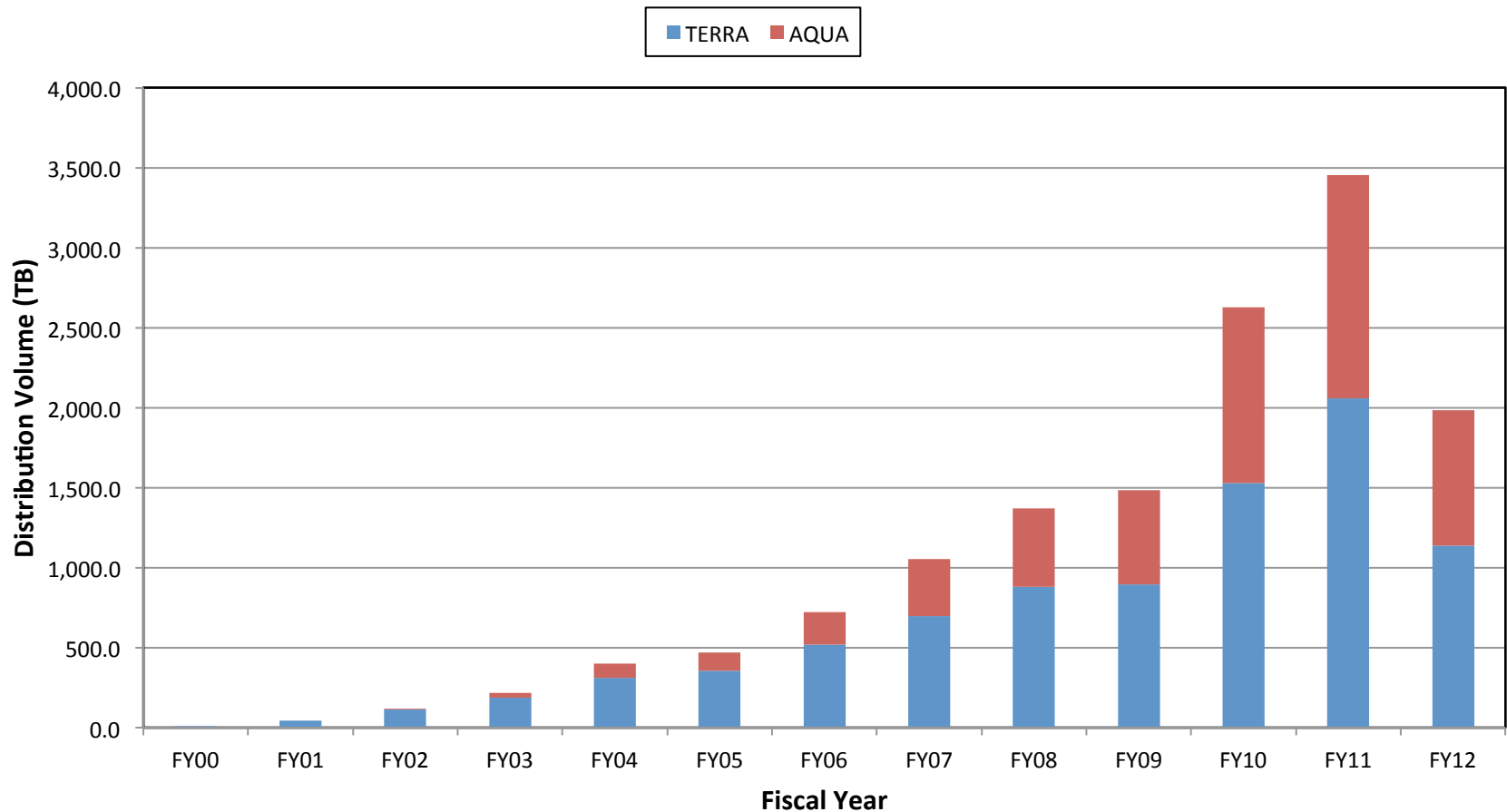
# Reprocessing and Product Distribution: Collection 6 and future plans

Edward Masuoka

Code 619

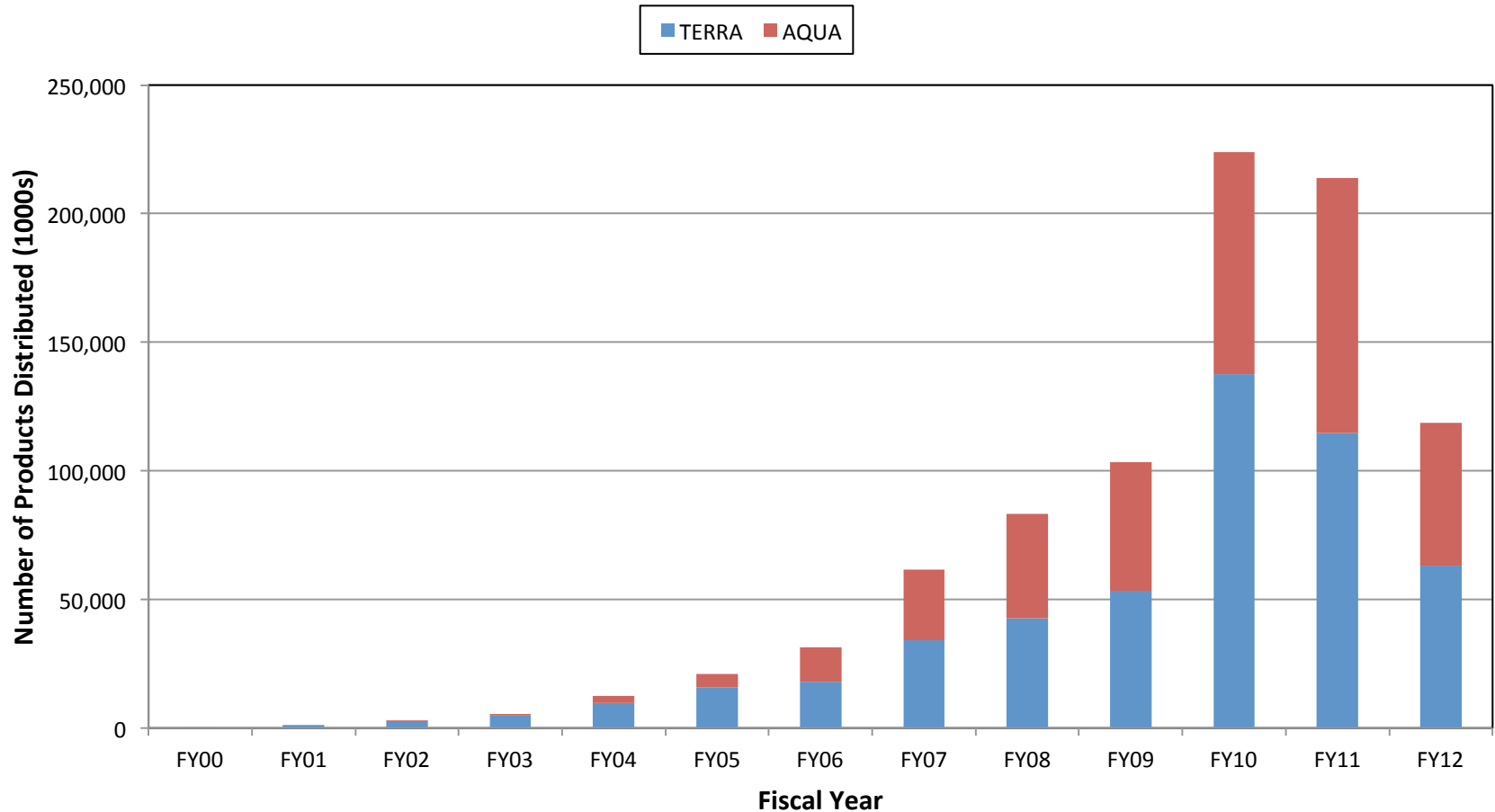
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# Total Volume of MODIS Terra/Aqua Products Distributed by Fiscal Year



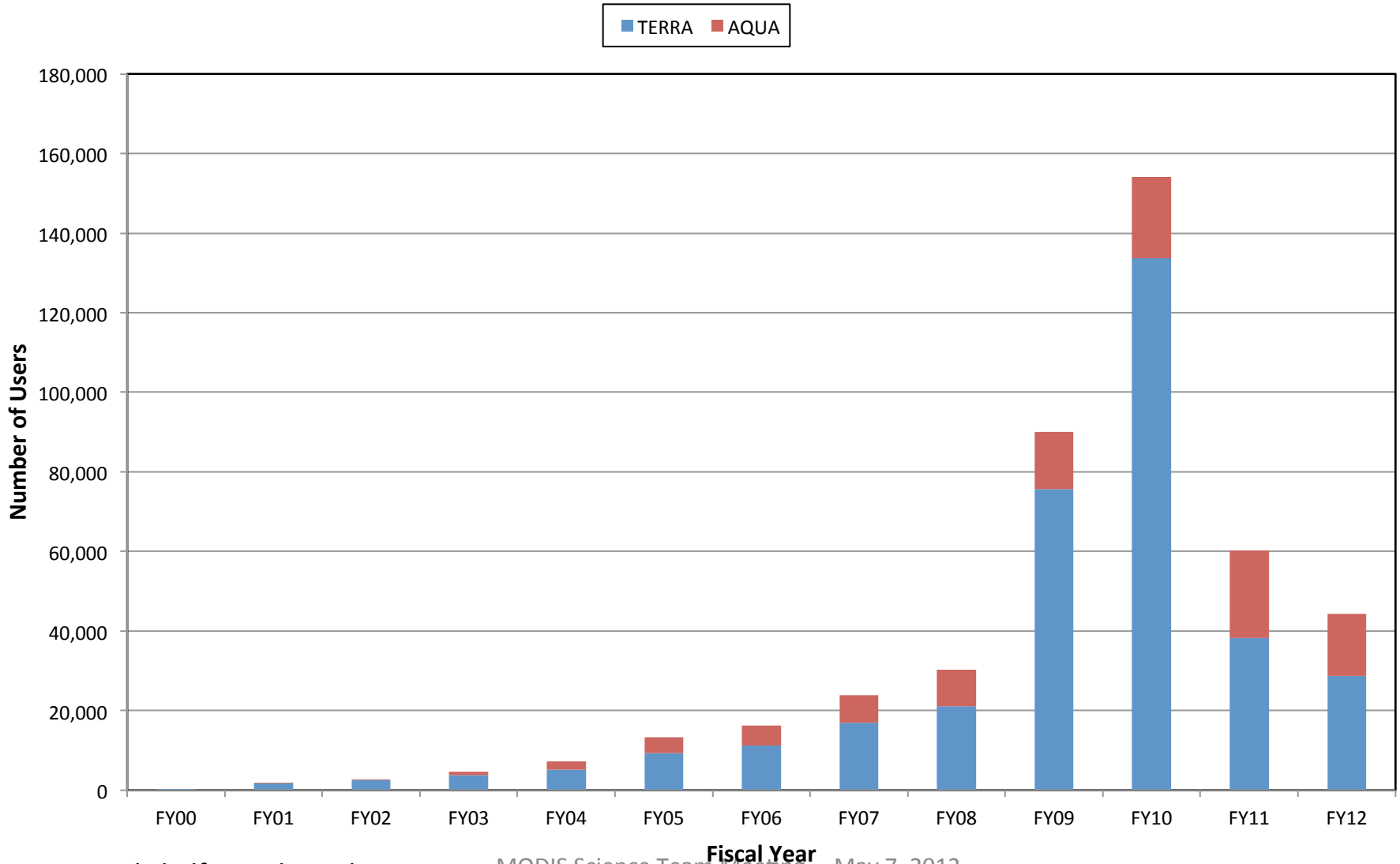
Note: 1) only half way through FY 12 (expect >4PB in 2012)  
2) numbers exclude distribution via disk drives

# Number of Terra/Aqua Products files



Expect >250M product files distributed in 2012

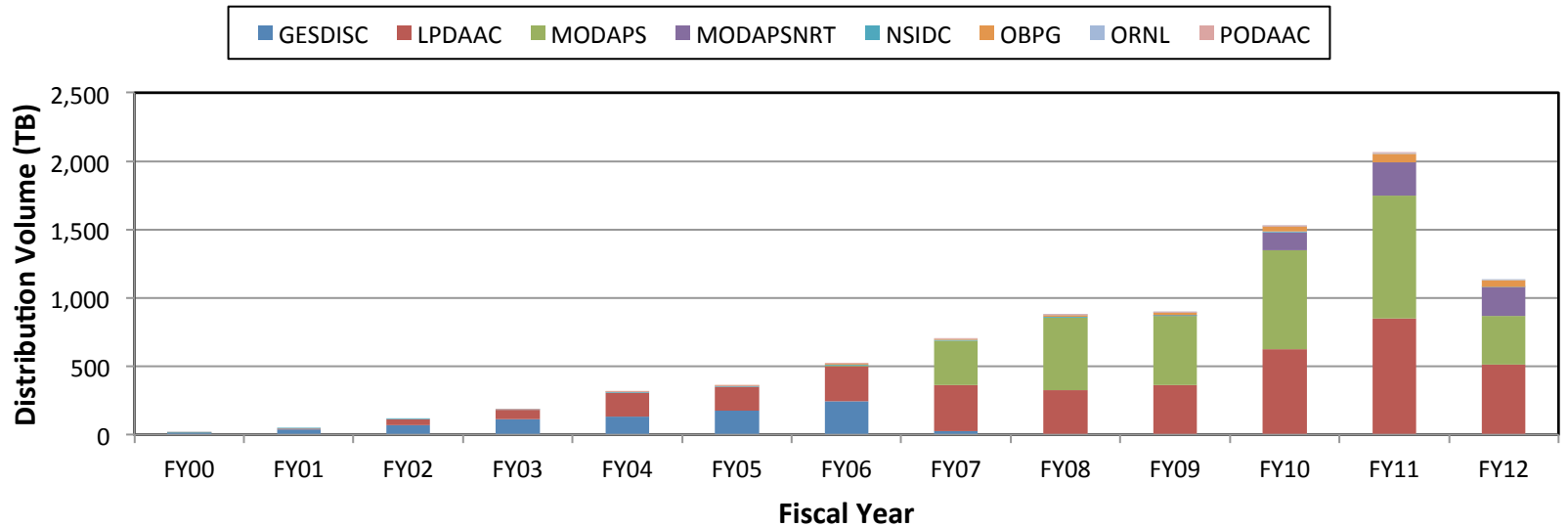
# Number of distinct MODIS users



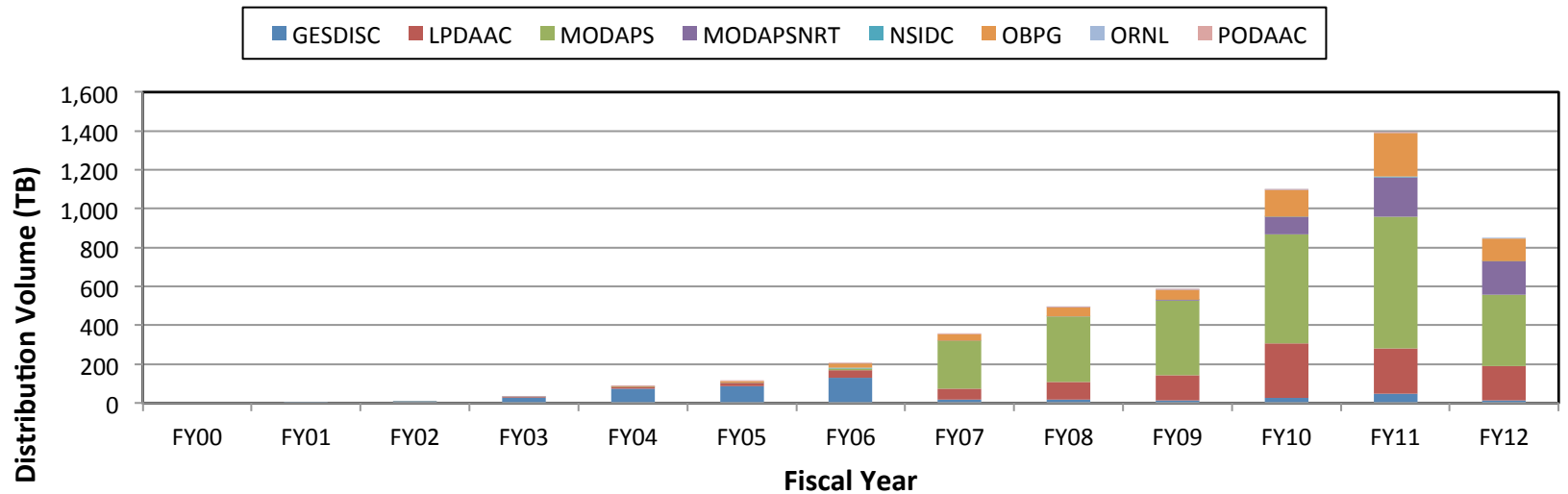
Note: only half way through FY 12

MODIS Science Team Meeting May 7, 2012

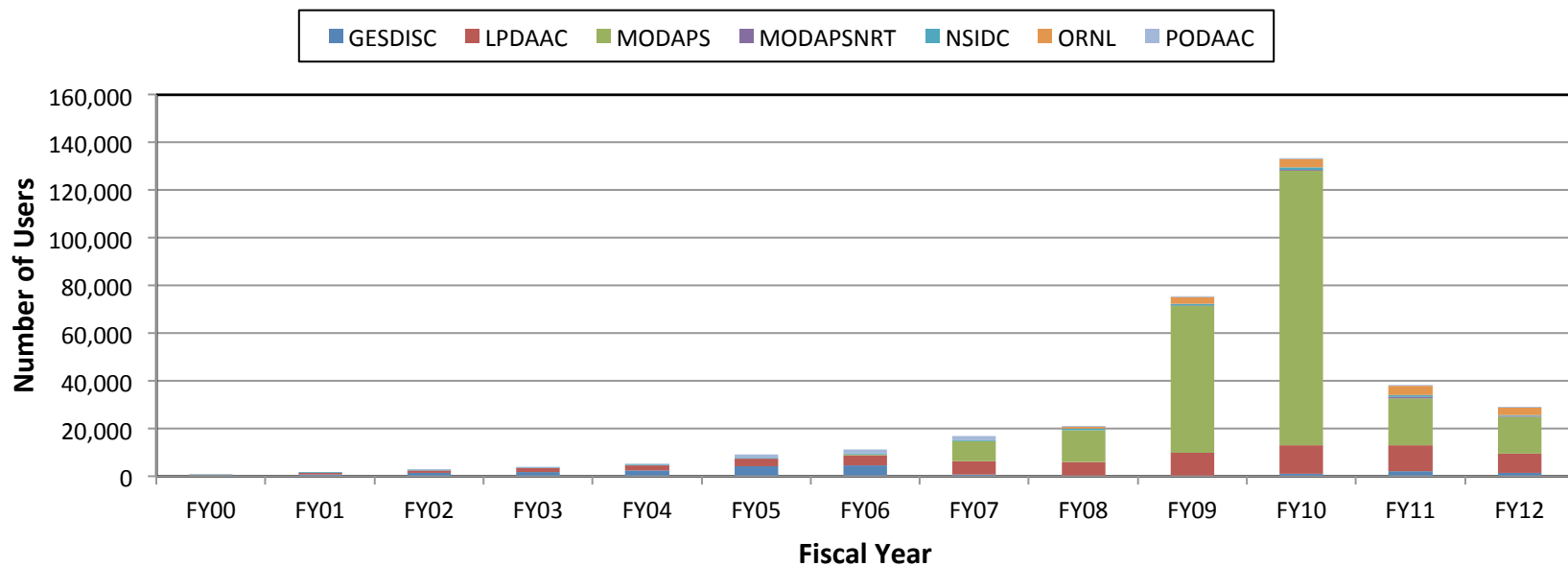
## Distribution Volume of Terra MODIS Products



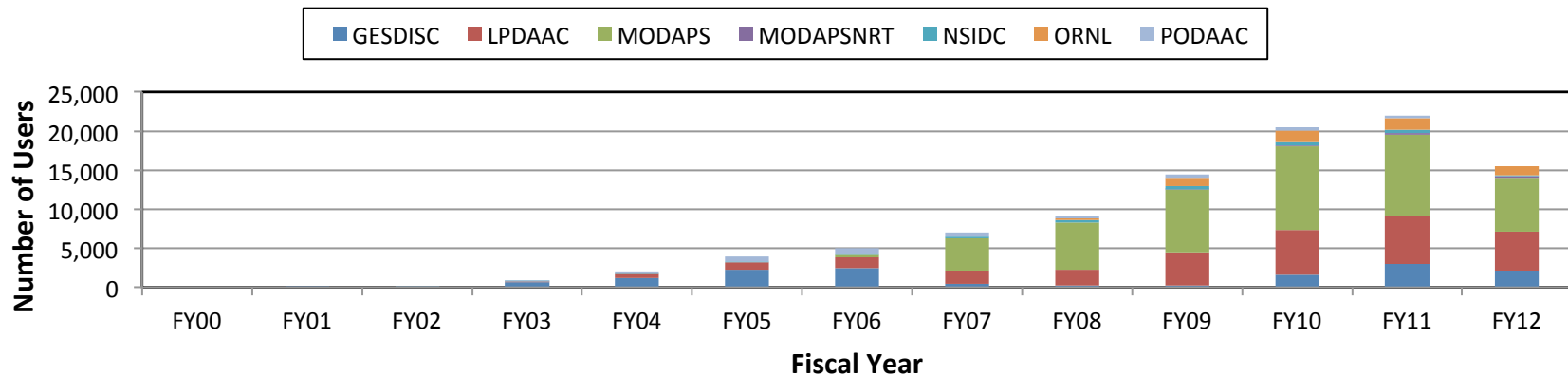
## Distribution Volume of Aqua MODIS Products



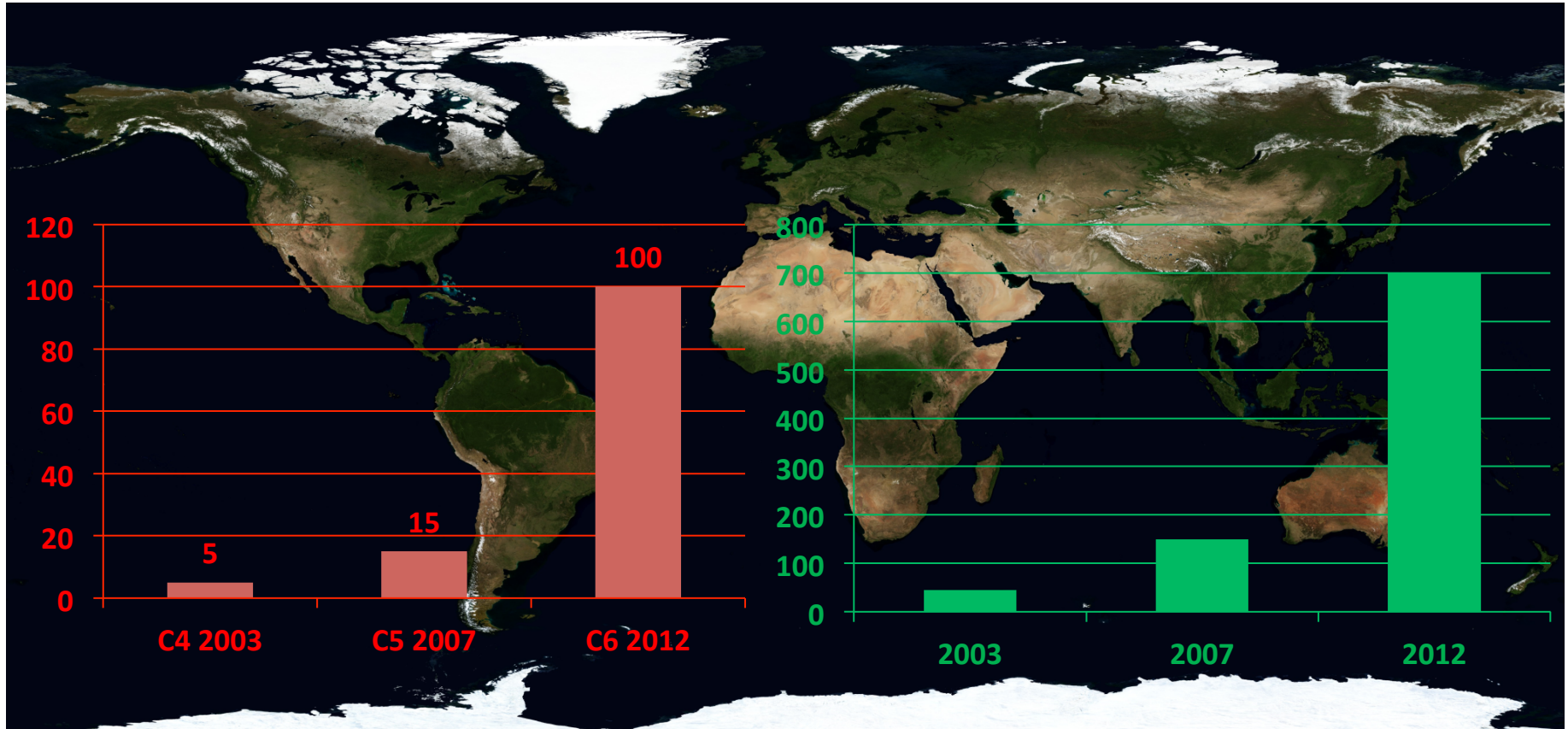
## Number of Terra MODIS Users



## Number of Aqua MODIS Users



# MODIS Reprocessing



## MODAPS – Level 1, Land and Atmosphere

- 20x forward processing
- 50x reprocessing string
- 80x test strings
- 100x reprocessing string waiting on disk

## OBPG – Ocean products

Complete reprocessing of all Ocean missions to produce uniform suite of products underway at 700x

# Test Systems – Atmosphere/Land

- Integration and Test system at Wisconsin identically configured to our software transfer group's I&T system
- Science test string for Atmospheres (mtvs6) used to test individual changes to PGEs, 40x processing rate, tests involve processing multiple months
- Science test string for Land (mtvs5), 40x processing rate, tests involve processing multiple years up to the entire data record



# C-6 Lessons Learned

- Separate strings for each discipline are essential to avoid delays in testing which impact development and integration of PGEs.
- Atmosphere's science tests involving single changes to a PGE have proven an effective approach to algorithm development.
- Developing individual test plans for science testing and communicating them to operations is an area that still needs improvement.

# Future Vision

- Collection 7 defined with Science Team
- Long-term data records AVHRR-MODIS-VIIRS
- Standards for metadata to support provenance
- Documentation improved for long-term archive
- Continued expansion of product formats
- More cross DAAC orders filled
- Common web services across DAACs
- Virtualization to support 32bit PGEs and older OS