#### **SDCG-7 Session 10**



ALOS-2 status and
JAXA contributions to
GFOI R&D Support strategy
(SDCG Element 3)

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#### **ALOS-2** status



ALOS-2 was successfully launched on May 24, 2014.

Commissioning and Cal/Val phase completed November

ALOS-2 declared operational on November 25, 2014.

ALOS-2 Basic Observation Scenario implemented in parallel with Cal/Val phase from August 2014.





# Systematic Observation Strategies



Basic Observation Scenarios – BOS - have been developed and implemented by JAXA for two decades:

- JERS-1 SAR (1992-1998: Pan-tropical, Pan-boreal)
- ALOS PALSAR (2006-2011: Global)
- ALOS-2 PALSAR-2 (2014+ Global)

JAXA historical archives of L-band SAR constitute long-term and consistent time-series data over the global forest cover from mid 1990's to present.





## Acquisitions over GFOI R&D Study Sites



The Basic Observation Scenario for ALOS-2 comprises:

10m Dual-pol stripmap mode: At least 2 observations/year in over all global forest regions, with up to 6 obs/year over all tropical forests

50m Dual-pol ScanSAR mode: 9 obs/year (every 42 days) over all tropical forests

New acquisition requests for GFOI can not be accommodated, but it is anticipated that the BOS is fully compliant with SDCG recommendations for L-band SAR

(at least dual season, resolution <30m, dual-pol)









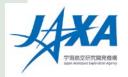
As of October 31, 2014, JAXA have made PALSAR 25 m global mosaic data openly available free of charge

Annual mosaics from 2007, 2008, 2009 and 2010, covering all land areas except Greenland and Antarctica.

Generation continuing from 2014/2015 with ALOS-2

Available in 1° x1° tiles.

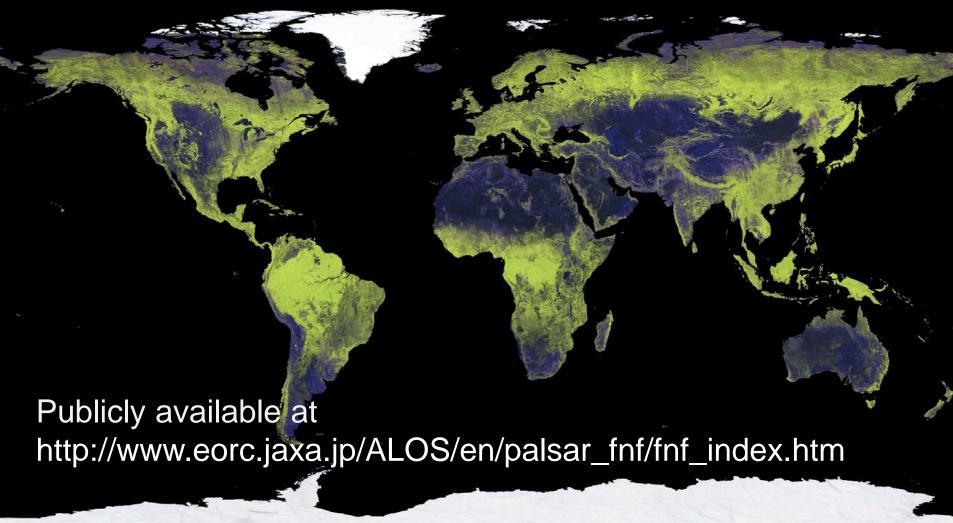
The data can be downloaded from http://www.eorc.jaxa.jp/ALOS/en/palsar\_fnf/fnf\_index.htm

















# Data provision for GFOI R&D Conditions for data provision:



Within the framework of the GEO Forest Carbon Tracking (GEO-FCT) Task 2009-2013 JAXA provided ALOS standard product data free of charge to GEO-FCT research groups (<50 scenes/year/group) in the 11 National Demonstrator countries.

In support of GFOI R&D activities — as outlined in the SDCG Element-3 strategy plan — JAXA anticipates that the ALOS-2 data also can be provided but under internal coordination.

The number of ALOS and ALOS-2 scenes that can be provided to each research group will be assessed on a case-by-case basis.





#### **Coordinated Research Opportunities**



JAXA anticipates that some near-future research announcements may be relevant to the GFOI R&D plan:

- •The next RA for ALOS-2 (RA6) is planned to be issued mid-2015 for application research for PALSAR-2.
- Note: JAXA support is limited to data only, and does not comprise direct funding for research.





### Other issues of relevance



ALOS-2 and ALOS-2 data policies are commercial. For data requests outside of GFOI R&D support, contact the commercial distributors (RESTEC and PASCO for ALOS-2: RESTEC for ALOS-1).

SDCG-7 Sydney, Australia March 4<sup>th</sup> – 6<sup>th</sup> 2015





