### **K&C Phase 3 – Brief project essentials**

#### K&C Phase 3:

#### Characterization of wetlands in the Nile and Zambezi Basins

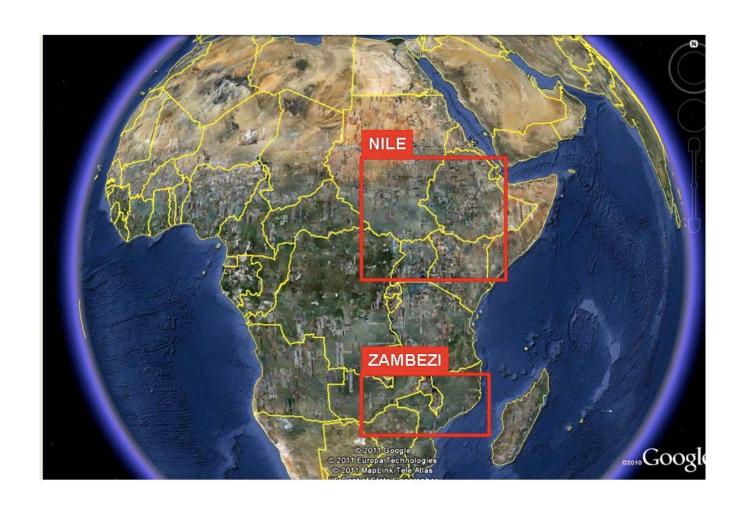
Lisa-Maria Rebelo
International Water Management Institute (IWMI)
Regional office for South East Asia and the Mekong
Vientiane, LAOS

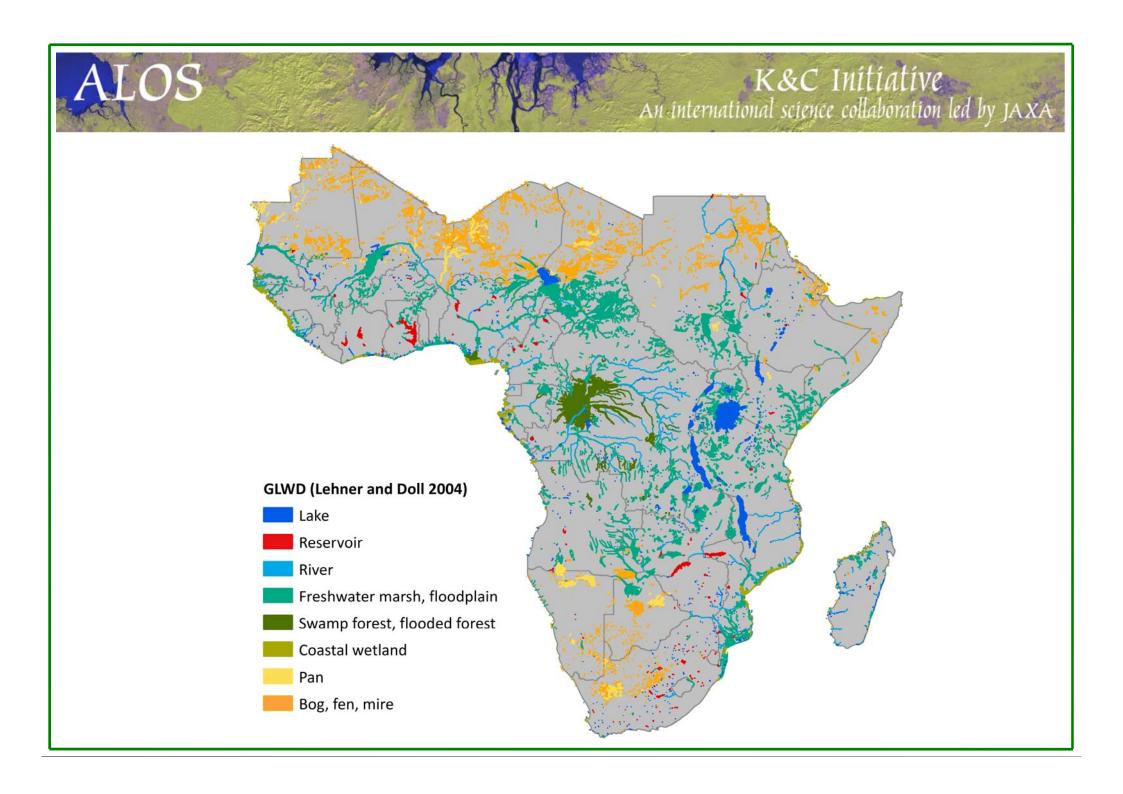
Science Team meeting #16 – Phase 3 Kick-off JAXA TKSC/RESTEC HQ, Tsukuba/Tokyo, October 17-21, 2011

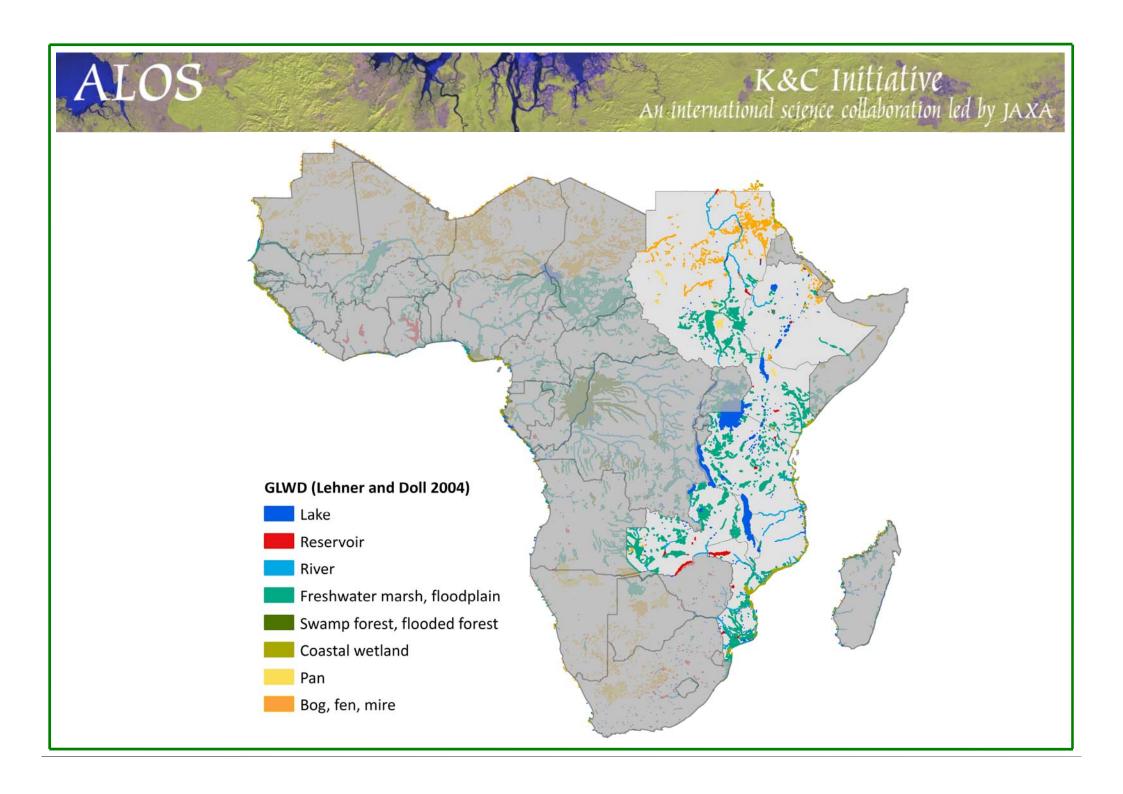


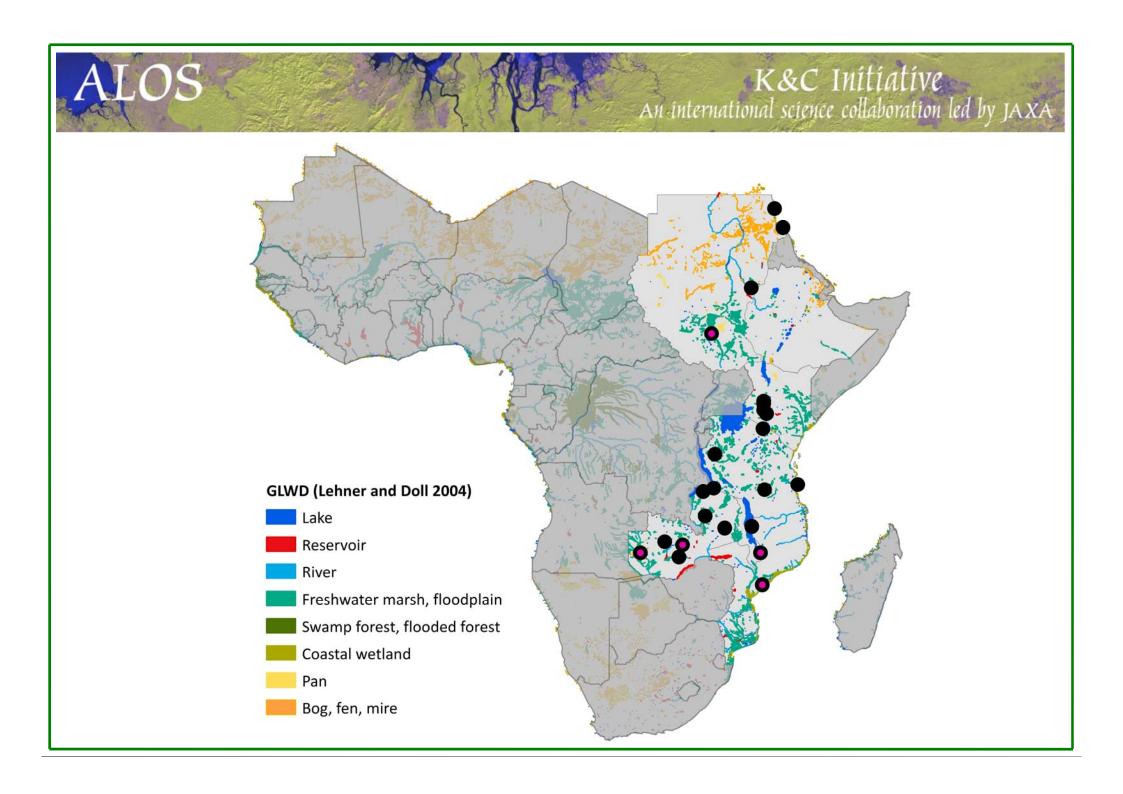
# K&C Initiative An international science collaboration led by JAXA

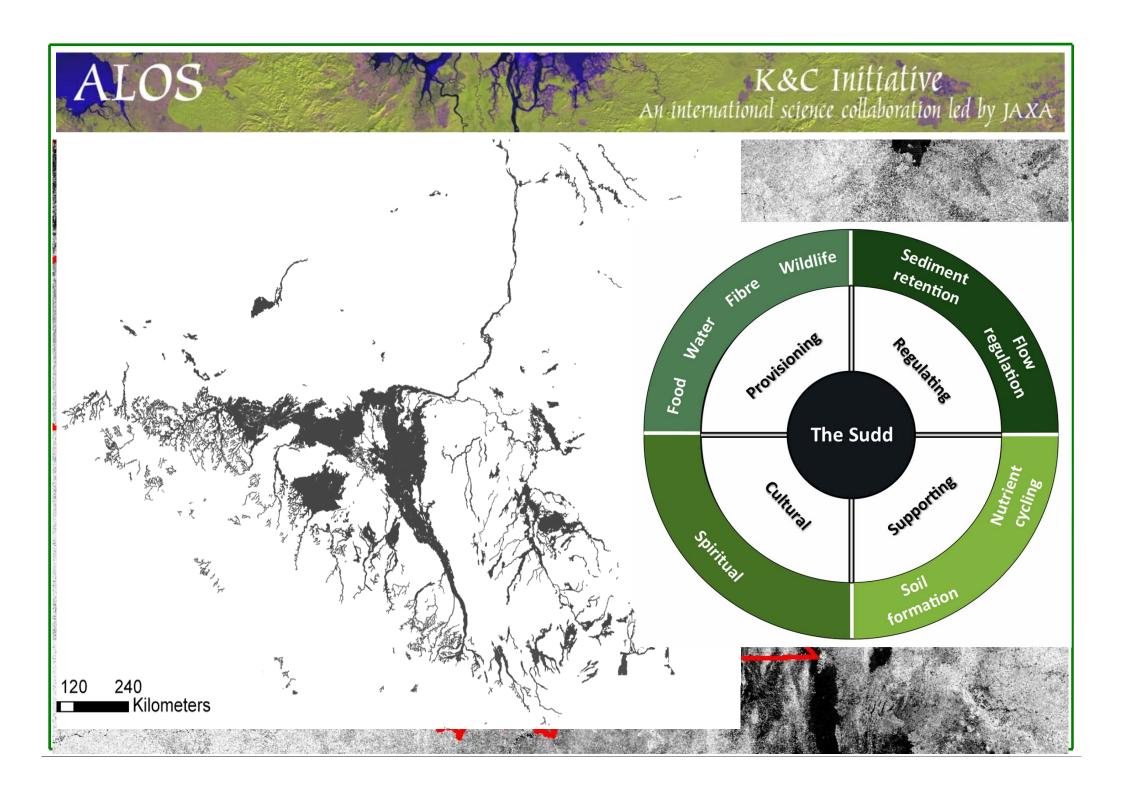
### **Project areas**

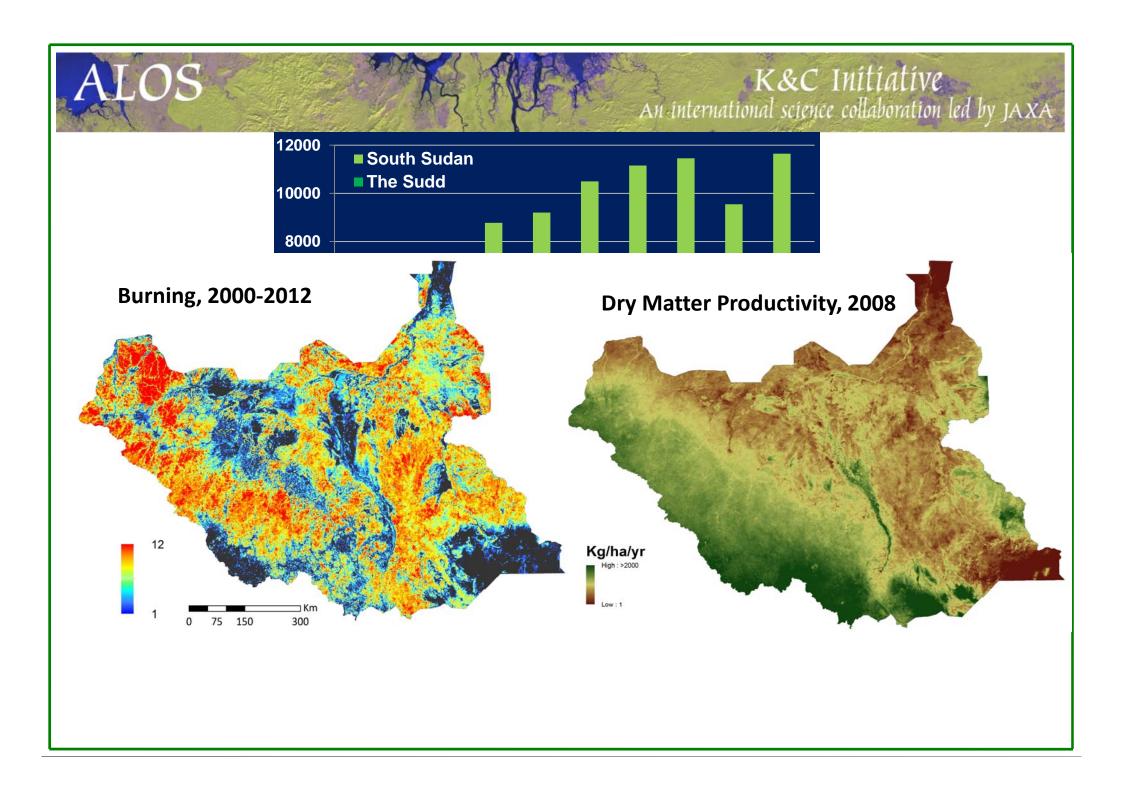


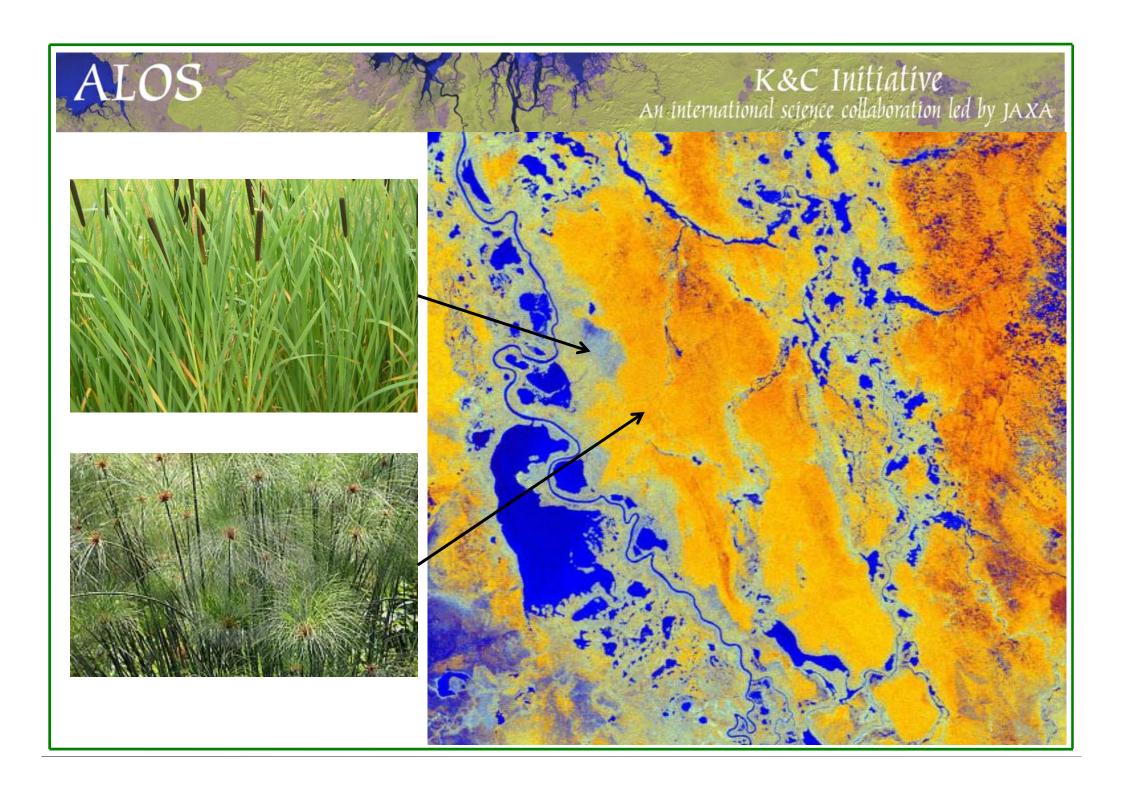


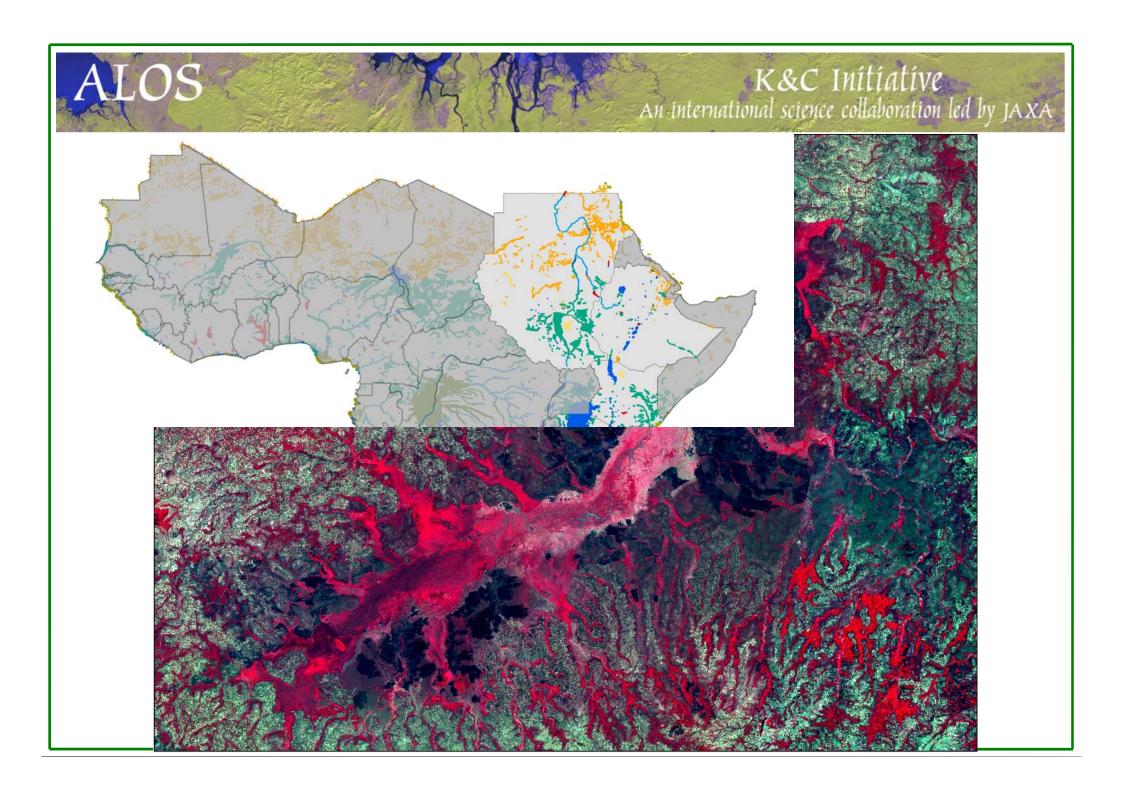




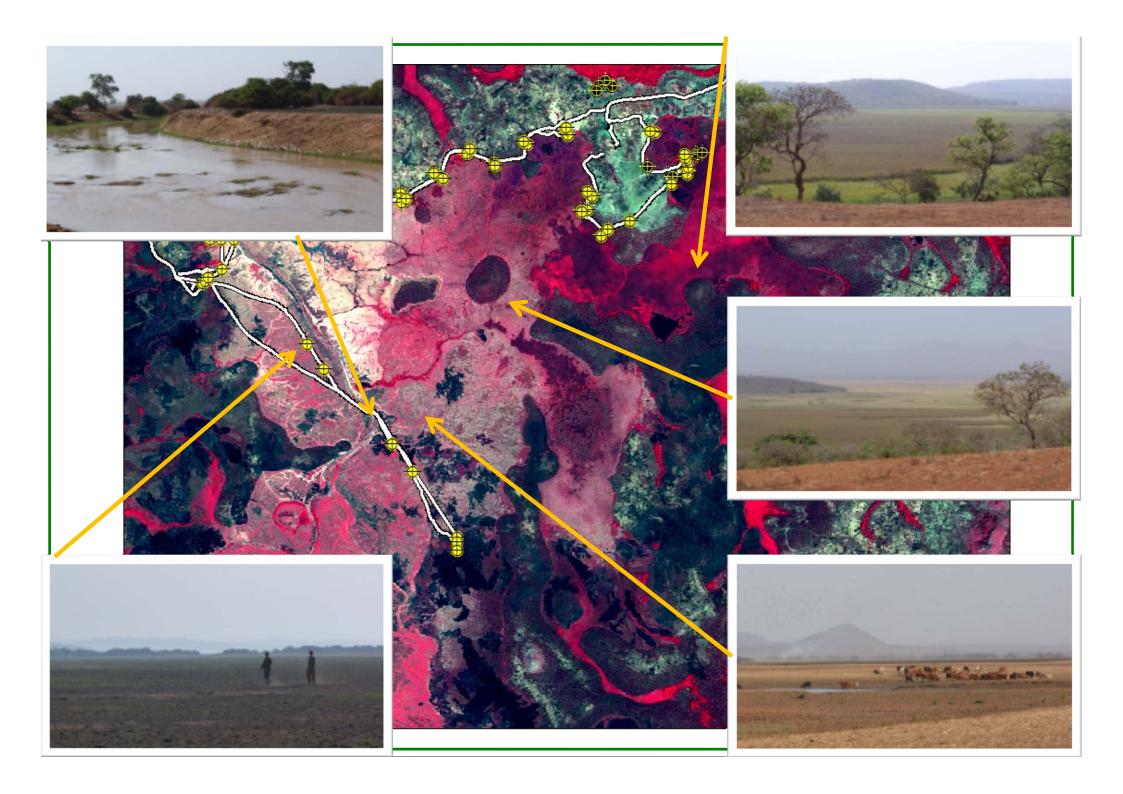












## ALOS

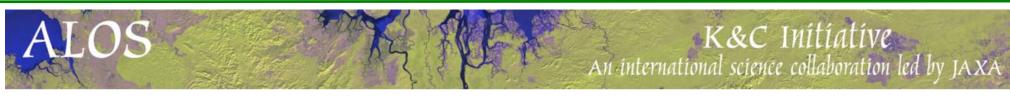
# K&C Initiative An international science collaboration led by JAXA

 Balaeniceps rex is very locally distributed in the large swamps from South Sudan to Zambia





- **South Sudan:** c. 5,000 (50-80% of the total population
- The population is undergoing a continuing decline owing to hunting, nesting disturbance and the modification and burning of its habitat
- species to which the Agreement on the Conservation of African-Eurasian Migratory Waterbirds (AEWA) applies









### **Project objectives**

#### **Project objectives:**

- •Mapping regional scale patterns of flooding and inundation within the Nile and Zambezi Basins
- •Characterization of individual wetland ecosystems within the Nile and Zambezi Basins

#### Relevance to the K&C objectives:

- Activities are of direct relevance to the Ramsar *Convention* on wetlands of international importance, and demonstrate the application of L-band SAR for wetland assessment, inventory and monitoring
- The deliverables will provide information required for *conservation* of wetlands in the Nile and Zambezi basins

#### **Project deliverables and milestones:**

- Maps of
  - Minimum water extent (open water, flooded vegetation)
  - Maximum water extent (open water, flooded vegetation)
  - Seasonal variations in inundation

#### **Support to JAXA's global forest mapping effort:**

- Geographical region: Nile and Zambezi basins, East Africa
- Land cover data from field study sites
  - Vegetation type
  - Inundation status
- Geocoded photographs from field study sites

#### Other activities in support of the K&C Phase 3 goals:

- Contribution to the "Mangrove Watch" including linking of K&C team to national institutions working on mangroves in order to support product validation
- Liaison, co-ordination and collaboration with the Ramsar Convention on wetlands of international importance through the Scientific and Technical Review Panel, in support of the JAXA/Ramsar MoU (signed in 2010)





# K&C Initiative An international science collaboration led by JAXA

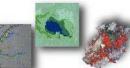
**RAMSAR COP-11** 

Invitation to Side Event (#27)



Sunday July 8, 2012 13:15 - 14:45 Room 1





#### For further information, please contact:

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European Space Agency

ESRIN Via Galileo Galilei Casella Postale 64 00044 Frascati ITALY





Pointe Behague, French Guyana Photo courtesy: C. Proisy Wetlands Monitoring by Earth Observation Satellites
- Current State of the Art

Sunday 8 July 2012. 13:15–14:45. Palace of Parliament, Room 1

Side Event hosted by the Japan Aerospace Exploration Agency (JAXA), in collaboration with the European Space Agency (ESA) and the International Water Management Institute (IWMI).

#### Side Event objectives:

- to provide an update of the state of the art of wetlands mapping and monitoring by satellite remote sensing, and
- to stimulate an open floor discussion regarding how Earth observation technology can contribute to both national monitoring needs as well as to the development and operations of the Ramsar Global Wetlands Observing System (GWOS).

SESSION 1: Satellite technologies available for wetland inventory, assessment and monitoring. Relevant demonstration projects.

- JAXA introduction and Wetlands Theme activities within the ALOS Kyoto & Carbon Initiative.
   Speakers; Osamu Ochiai/JAXA and Lisa-Maria Rebelo/IWMI)
- Global Mangrove Watch a new initiative for annual mapping of the status and changes of the worlds's mangrove areas.

  Speaker: Ake Rosenqvist/JAXA
- GlobWetland II, a regional pilot project of the future Global Wetlands Observing System.
   Speaker: Marc Paganini/ESA

SESSION 2: Linking Earth Observation technology to national needs and the Global Wetlands Observing System.

- Questions & Answers
- · Open floor discussions

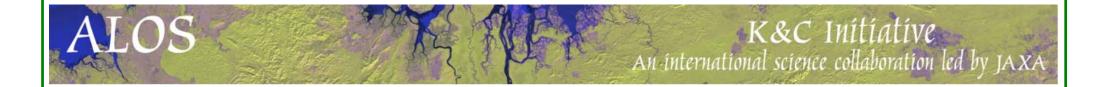
Lunch will be provided.

Welcome!

Matang mangrove reserve, Malaysia ALOS K&C © JAXA/METI

B' 148. 5mm

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## Thank you!