

Post-KC Science Team (2019-2022)

	Name	Surname	Institution	Country	
1	Rahmat	Arief	LAPAN	Indonesia	
2	John	Armston	University of Maryland	USA	
3	Alex	Bouvet	CESBIO	France	
4	Pete	Bunting	Aberystwyth University	Wales/UK	
5	Bruce	Chapman	Californa Inst. of Technology/JPL	USA	
6	Humberto	de Mesquita	Brazilian Forest Service	Brazil	
7	Johan	Fransson	Univ. of Agricultural Sciences	Sweden	
8	Dirk	Hoekman	Wageningen University	Netherlands	
9	Josef	Kellndorfer	Woods Hole Research Center	USA	
10	Joaquim	Macuacua	National Directorate of Forestry	Mozambique	
11	Stephane	Mermoz	GlobEO	France	
12	Shaun	Quegan	Univerity of Sheffield U.I		
13	Lisa	Rebelo	International Water Management Institute La		
14	Edson	Sano	IBAMA Bra		
15	Maurizio	Santoro	Gamma Remote Sensing	Switzerland	
16	Bernd	Scheuchl	University of California, Irvine	USA	
17	Thiago	Silva	Stirling University	Scotland/UK	
18	Paul	Siqueira	Univ. Massachusetts	USA	
19	Nathan	Thomas	NASA GFSC	USA	
20	Nathan	Torbick	Applied Geosolutions, LLC	USA	
21	Mikhail	Urbazaev	Friedrich-Schiller-University Jena Germa		



PKC#1 (KC#26) Agenda Tuesday Jan 21, 2020 Hall 16C

	K&C Session 1: JAXA updates				
#	Item	Presenter(s)	Duration	Start	End
1	Welcome	Takeo Tadono, JAXA EORC	10	10:00	10:10
2	K&C Update	Ake Rosenqvist, soloEO	20	10:10	10:30
3	New methodology for EORC Forest/Non-Forest map generation	Takuya Itoh, RESTEC	20	10:30	10:50
4	EORC global mosaic processing/re-processing and data distribution	Kazufumi Kobayashi, RESTEC	20	10:50	11:10
5	EORC research results	Masato Hayashi, JAXA EORC	20	11:10	11:30
6	Updates to the Sigma-SAR processor	Masanobu Shimada, Tokyo Denki Univ	20	11:30	11:50
7	Cloud-based solution for ScanSAR mosaic processing	Josef Kellndorfer, Earth Big Data	20	11:50	12:10
	Q&A	All	20	12:10	12:30
	Lunch		90	12:30	14:00
	K&C Session 2: Glaciers & Wetland	s			
#	Item	Presenter(s)	Duration	Start	End
8	JJ-FAST update	Manabu Watanabe, TDU	20	14:00	14:20
9	ALOS-2 ecosystem product validation with UAVSAR and field measurements	Bruce Chapman, JPL	20	14:25	14:45
10	InSAR based Ice Velocity and Grounding Line Measurements in Antarctica	Bernd Scheuchl, UC Irvine	20	14:50	15:10
11	Development of Digital Services for Peatland Monitoring	Rahmat Arief, LAPAN	20	15:15	15:35
12	Tropical Peat Watch demonstrator Indonesia	Dirk Hoekman, WUR	20	15:40	16:00
13	Characterization of Amazon floodplain forest habitats and inundation dynamics using PALSAR-2 time series	Mikhail Urbazaev, FSU Jena	20	16:05	16:25
14	The Global Mangrove Watch: Moving to Finer Resolutions	Ake Rosenqvist (Bunting & Lucas)	20	16:30	16:50
15	Integrating multisensor information as analysis-ready data for semi-automated monitoring of South American wetlands	Thiago Silva, Stirling Univ (via Skype)	20	17:00	17:20

PKC#1 (KC#26) Agenda Wednesday Jan 22, 2020 Hall 15D

	K&C Session 3: Forest	L				
#	Item	Presenter(s)	Duration	Start	End	
1	CEOS Biomass activity update	Osamu Ochiai, JAXA SAOC	20	09:30	09:50	
2	Fusion of ALOS-2 and Spaceborne Lidar Observations for High Resolution Mapping of Degraded and Regenerating Forest Structure and Biomass in Australia	John Armston, UMD	20	09:50	10:10	
3	Deforestation and Forest Degradation Analysis in Mozambique	Joaquim Macuacua, Nat. Dir. Forestry	20	10:10	10:30	
4	Above-ground biomass change in the woodlands and savannas of Southern Africa	Alex Bouvet, CESBIO	20	10:30	10:50	
5	Forest loss detection in South-East Asia using ALOS-1 and ALOS-2 SAR data	Stéphane Mermoz, Globeo	20	10:50	11:10	
6	Assessing the impact of precipitation on ALOS-2 forest observation in the tropics	Christian Koyama, TDU	20	11:10	11:30	
	Open floor discussions	All	30	11:30	12:00	
	Lunch		60	12:00	13:00	
	Joint PI Meeting for JAXA EO Missions					
13:00 – 16:00 ALOS-2 Plenary						
16:00 – 18:00 ALOS-2 PI meeting (Poster Session)						
(Open to all. KC member participation voluntary)						
	18:30 – 20:30 Joint PI Meeting Welcome Reception					

PKC#1 (KC#26) Agenda Thursday Jan 23, 2020 Hall 16C

	Joint PI Meeting for JAXA EO Missions						
	10:00 – 13:00 ALOS-2 PI meeting (Cal	10:00 – 13:00 ALOS-2 PI meeting (Cal/val, Pol & InSAR Session)					
	(Open to all. KC member partici	pation voluntary)					
	Lunch		60	13:00	14:00		
	K&C Session 4: For	est 2					
#	Item	Presenter(s)	Duration	Start	End		
1	Brazilian Forest Map: Qualification of Tropical Forest Remnants to Sustainable Development Goals	Humberto de Mesquita, BFS	20	14:00	14:20		
2	L-band Sensitivity to Biomass and Landcover Structure in the ABoVE domain	Paul Siqueira, UMass	20	14:25	14:45		
3	Retrieval of forest biomass and biomass change using PALSAR-1, -2 and -3 data	Johan Fransson, SLU	20	14:50	15:10		
4	Decadal forest biomass change with ALOS-1 and ALOS-2 L-band SAR observations	Maurizio Santoro, Gamma RS	20	15:15	15:35		
5	Multi-frequency SAR Time Series Analysis for Ecosystem Monitoring: Fusing ALOS-2, ALOS-4, NISAR and Sentinel-1 Data Sets	Josef Kellndorfer, Earth Big Data	20	15:40	16:00		
	K&C Session 5: Related Missions and activities						
6	NISAR mission update	Paul Siqueira, UMass	20	16:05	16:25		
7	GEDI mission update	John Armston, UMD	20	16:30	16:50		
8	SAOCOM mission update	Marc Thibeault/Matias Palomeque, CONAE	20	16:50	17:10		
	K&C Session 6: Meeting Summary						
9	KC Meeting Summary and wrap-up	All	20	17:10	17:30		
	Adjourn			17:30			
	NEW: 18:00 – 20:00 K&C No-host Dinner						



K&C No-host Dinner

Thursday Jan 23, 18:00~20:00

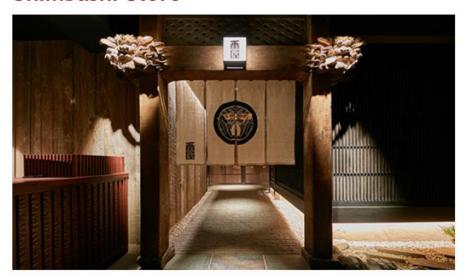
Izakaya Banya

Shimbashi 2-14-3, Shimbashi Renga-dori Kaikan 8F

Fee: 4000 yen/pers

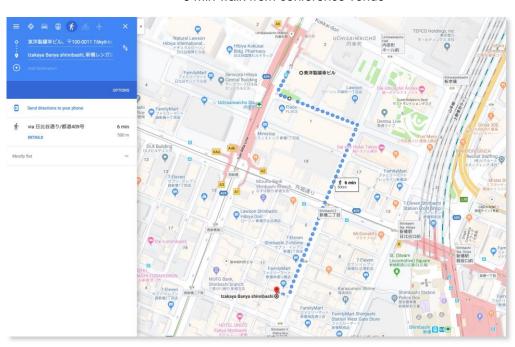
Please sign list (and provide payment) you would like to join!

Shimbashi Store



www.banya-group.jp/en/

6 min walk from conference venue

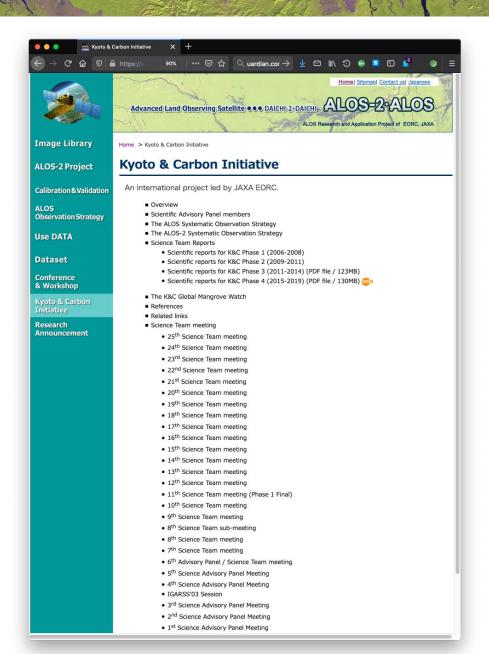


Joint PI meeting Friday Jan 24, 2020 Hall 16C

	Joint PI Meeting for JAXA EO Missions				
АМ	10:00 – 11:40 ALOS-2 Closing Plenary (Open to all) 9:00 – 11:30 ALOS-4 Cal/Val Team meeting (Open to all)				
	Lunch				
	Joint PI Meeting for JAXA EO Missions				
PM	13:00 ~ 15:30 ALOS-4 Cal/Val Team meeting (Open to all) MOLI PI meeting (Only MOLI science team members)				







JAXA EORC K&C Homepage

- K&C background information
- Agendas and presentation material available from all previous K&C Science Team meetings (KC#1 KC#25)
- JAXA 25m mosaics and FNF classifications
- PALSAR and PALSAR-2 systematic observation strategy (BOS)

http://www.eorc.jaxa.jp/ALOS/en/t op/kyoto top.htm

K&C Reports

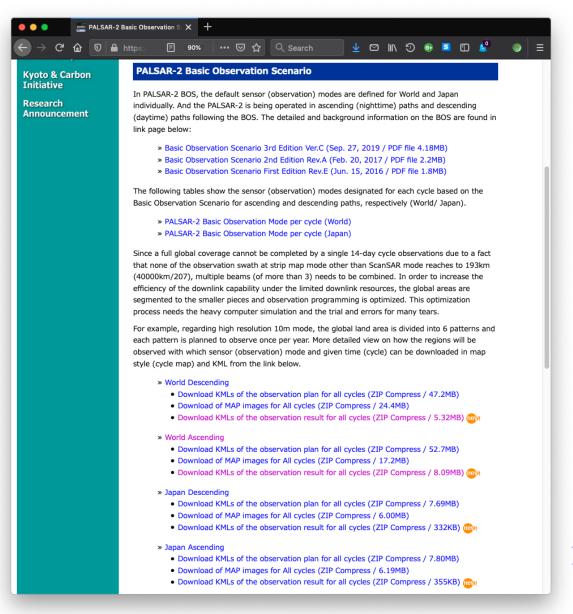
Phase 4 Report updated (v Dec 2019)

Available on KC Wiki and JAXA EORC www





An international science collaboration led by JAXA

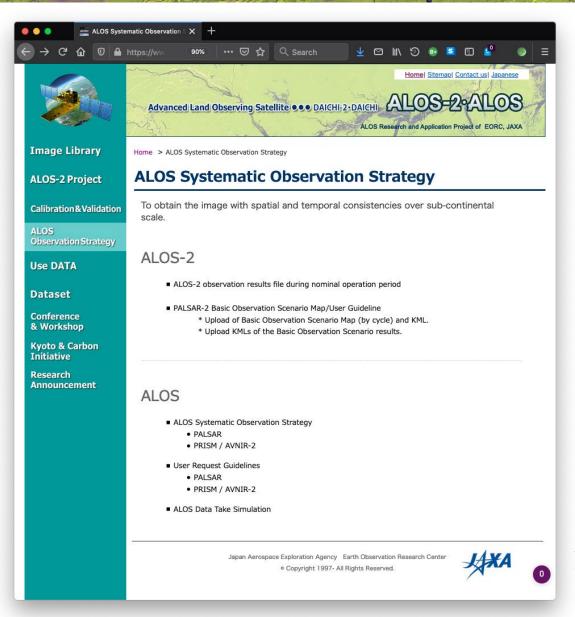


JAXA EORC Observation Strategy www

- BOS (future) plan
- BOS observation results
- KML download available

http://www.eorc.jaxa.jp/ALOS/en/t op/kyoto_top.htm

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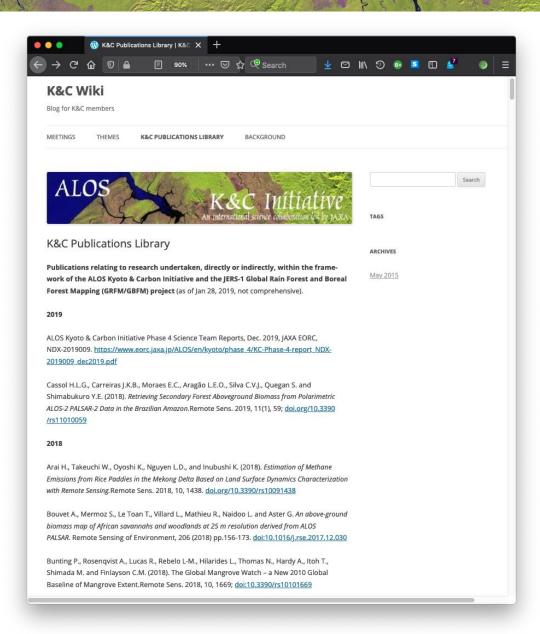


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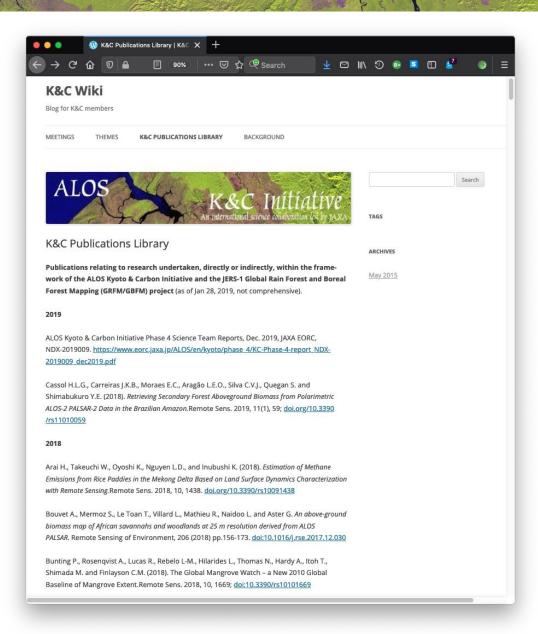
K&C Wiki

https://kcwiki.wordpress.com/

K&C Publications Library
Library of references to papers
relating to K&C and
GFRM/GBFM research

150+ references & PDFs from Science Team 1996 – 2018

Please provide your 2019 publications! (journal + conference papers)



Acknowledgements

Proper acknowledgement of JAXA and the K&C Initiative in all related publications is essential.

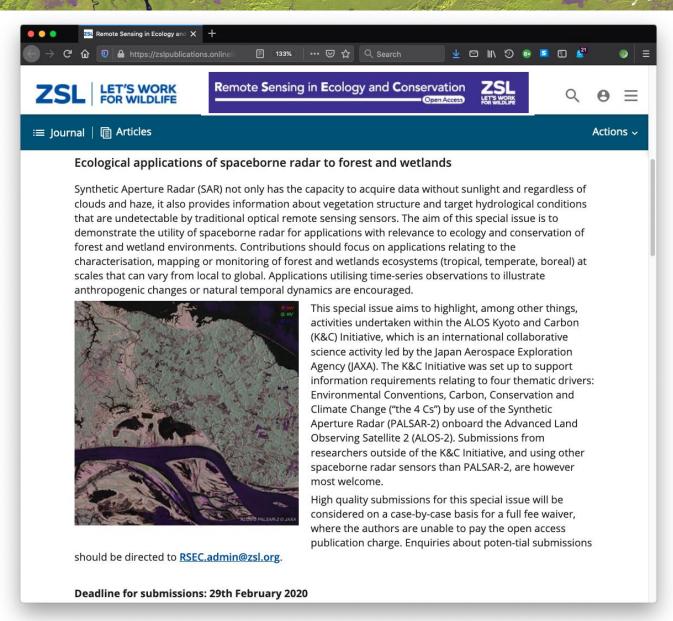
Please include the following paragraph in all publications where data obtained from the K&C have been used:

"This work has been undertaken [in part] within the framework of the JAXA Kyoto & Carbon Initiative. ALOS-2 PALSAR-2 data have been provided by JAXA EORC."

K&C Special Issue 2020

New extended submission deadline:

June 30, 2020



Data provision

- AUIG2 data (see presentation by Ms Riiko Ueno, EORC Order Desk)
 - If possible, avoid ordering during Feb & March.
 - In April, EORA2 PI ordering quota WILL BE CARRIED OVER to next JFY + New quota will be added
 - Max 10 scenes (5 ScanSAR) per order, max 2 orders/day
 - REQUEST TO JAXA: Increase K&C Science Team member AUIG2 scene allocation to 50 scenes/year (= same as EORA2 PIs)

Path data processing and provision

- JAXA allocation and processing schedule
- JAXA capacity: 1000 path products/year
- We are now accepting KC Path Image requests for JFY 2020. Please submit request forms by end of February.

Discussion points

AM session:

- FB and ScanSAR processing issues
- AUIG2 ordering
- Path data provision

PM Session:

RSEC Special Issue

Remote Sensing in Ecology and Conservation



- ALOS-2 "Super-Super Site" proposals
- ALOS-4 input

Remote Sensing in Ecology and Conservation



K&C Special Issue 2020

Re-confirmation of intent

Lead author (name & affiliation)	Provisional title		
Lisa Maria Rebelo, IWMI., Sri Lanka	Mapping disturbances in protected mangrove areas 1996-2016		
Richard Lucas, Aberystwyth U, UK	Sustainability measures for mangroves as assessed through integration of Japanese L-band SAR and spaceborne optical data		
Mikhail Urbazaev, FSU Jena. DE	Multi-temporal statistics of L-band backscatter for forest cover and deforestation mapping		
Edson Sano, IBAMA, BR	Feasibility of global forest/non-forest maps derived from X-band and L- band SAR data over the Brazilian Amazon and Cerrado		
Maurizio Santoro, Gamma RS, CH	Quantifying the carbon pool of Sweden in 2010 and 2015 using spaceborne SAR observations		
Nathan Torbick, AGS, USA	Assessing ecological hydropulse in the Mekong basin using multi scale Earth observations		
Marcela Quiñones, SarVision, NL	Ecological Mapping Using ALOS PALSAR data - Integrated approach for definition of ecosystems in the Colombian Amazon		
Pete Bunting/Henry Batten, Aber U, UK	Hotspots for Conservation of Mangroves for Africa		
Martyna Stelmaszczuk, FSU Jena, DE	Ecological applications of spaceborne radar to forest and wetlands		
Angelica Jaojoco, Flora and Fauna Intl. The Philippines	Combined use of L-band SAR and optical data for multi-temporal mapping of mangroves in the Philippines		
Jessica Rosenqvist, CUNY, USA	Mapping of Inundation Extent in the Amazon Basin 2014-2017 with ALOS-2 PALSAR-2 ScanSAR Data		
José Don De Alban, Nat. Univ. Singapore	Integrating L-band SAR and Landsat data for mapping land cover change in protected areas in the Philippines		

Discussion topics

FB and ScanSAR mosaics

- Geometric/radiometric accuracy
- Processing and re-processing schedule

· ALOS-4

 Relevant observations in NISAR/SAOCOM era. Joint KC proposal to JAXA on ALOS-4 operations to assure maximum complementarity (e.g. 1-2 global/regional QP obs?)

The soloEO CO₂ Challenge – offset your C travel footprints

Our comminuty (EO) - with our extensive travel - emit more CO₂ than the average American! http://databank.worldbank.org/data/reports.aspx?source=2&series=EN.ATM.CO2E.PC&country=#

Where to donate?

https://support.nature.org/site/Donation2?3901.donation=form1&df_id=3901

Where to calculate?

Several options. E.g.:

Carbon Neutral: http://www.carbonneutralcalculator.com/flightcalculator.aspx

United: http://co2offsets.sustainabletravelinternational.org/ua/offsets

Qantas: https://www.gantasfutureplanet.com.au/

SAS: http://sasems.port.se/EmissionCalc.cfm?lang=1&utbryt=0&sid=geninfo&left=geninfo

For an economy class ticket, it boils down to approx ~US\$1.25 (€1) per flight hour

- → Tokyo <-> London (return) = US\$30 (€ 24)
- →Tokyo <-> Bangkok = US\$15
- →New York <-> LA = US\$ 12
- >Frankfurt <-> Rome = € 3
- →Sydney <-> Dubai = US\$ 38