

PKC#1 Summary & Recommendations to JAXA

Actions

• Path Image Data

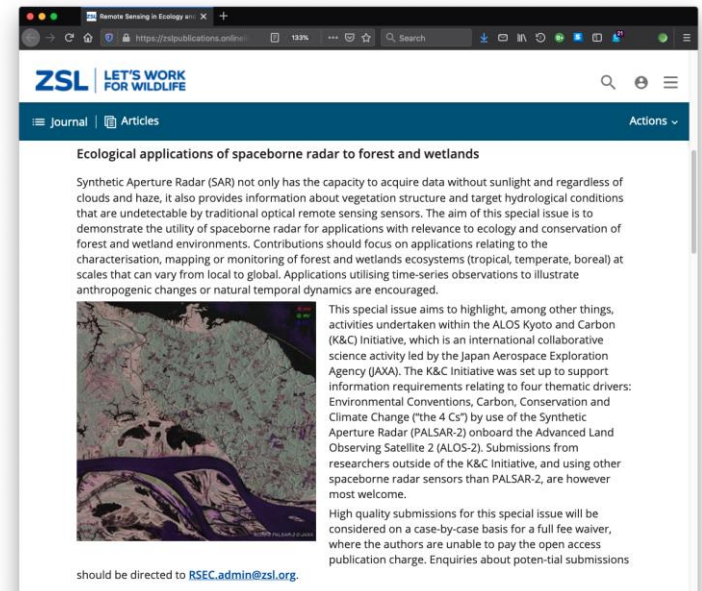
- Requests for Path Data for JFY2020, due Feb 29, 2020.
- Request forms at <https://kcwiki.wordpress.com/misc/>
- Submit to z-alos-kc@ml.jaxa.jp (& CC to Ake)

• RSEC Special Issue

- Submissions by June 30
- New contributions welcome

• ALOS-2 “Super Super” Sites

- Spec details



Proposed K&C ALOS-2 Super-Super Sites (1/3)

1. Tumbarumba, NSW, Australia

[Carbon; Climate Change, Conventions]

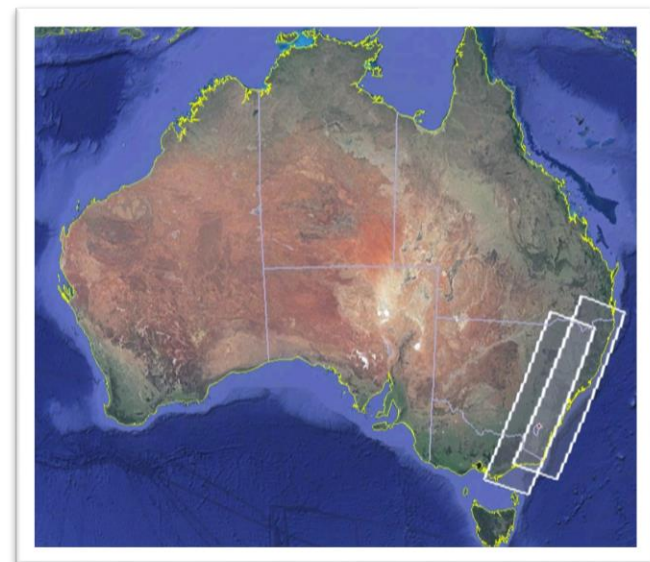
- **Centre Lat/Long:** S35.655° /E148.150°
- **Topic:** Fire damage & recovery
- **PI POC:** John Armston, UMD (armston@umd.edu)
- **Acquisition mode:** Alternating FBD (HH+HV) and Full-pol (QP)
- **Pass direction:** Ascending
- **Temporal frequency:** FBD: Jan, Mar, May, Jul, Sep, Nov
QP: Feb, Apr, Jun, Aug, Oct, Dec
- **Duration:** 2 years



2. Australia South-East coast

[Carbon; Climate Change, Conventions]

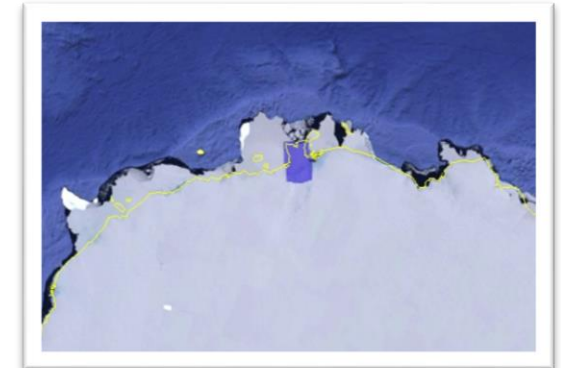
- **Centre Lat/Long:** See KML
- **Topic:** Fire damage & recovery
- **PI POC:** Ake Rosenqvist (ake.rosenqvist@soloEO.com)
- **Acquisition mode:** ScanSAR
- **Pass direction:** Descending
- **Temporal frequency:** Every 42 days
- **Duration:** Part of BOS (Wetlands-Deforest-1)



Proposed K&C ALOS-2 Super-Super Sites (2/3)

3. Denman Glacier, East Antarctica [Climate Change, Conventions]

- **Centre Lat/Long:** S66.200° /E99.600°
- **Topic:** Rapidly changing glaciers
 - **PI POC:** Bernd Scheuchl, U. Calif. Irvine (bscheuch@uci.edu)
 - **Acquisition mode:** HH Ultra-Fine (HH) or Fine-Beam (HH+HV)
 - **Pass direction:** Ascending or descending
 - **Temporal frequency:** Every cycle (for InSAR)
 - **Duration:** 2 years

**4. Sebangau NP, Indonesia** [Carbon; Climate Change, Conventions, Conservation]

- **Centre Lat/Long:** S2.520° /E113.840°
- **Topic:** Peat swamp monitoring and recovery
 - **PI POC:** Dirk Hoekman, Wageningen Univ. (dirk.hoekman@wur.nl)
 - **Acquisition mode:** Full-polarisation (QP)
 - **Pass direction:** Ascending
 - **Temporal frequency:** Monthly, or better
 - **Duration:** 2 years

**5. Jurua River, Amazonas, Brazil** [Carbon; Conservation]

- **Centre Lat/Long:** S5.440° /W67.195°
- **Topic:** Floodplain forest monitoring
 - **PI POC:** Mikhail Urbazaev, FSU-Jena (mikhail.urbazaev@uni-jena.de)
 - **Acquisition mode:** Full polarisation (QP)
 - **Pass direction:** Ascending
 - **Temporal frequency:** Monthly, or better
 - **Duration:** 2 years

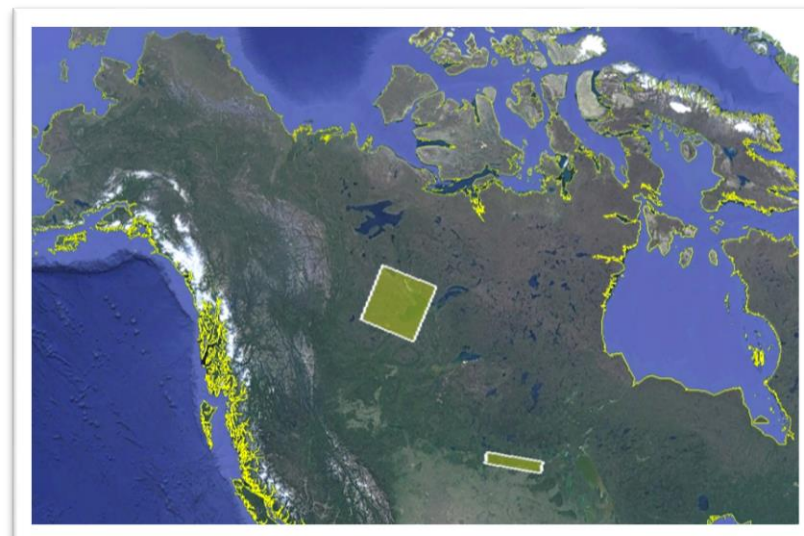


Proposed K&C ALOS-2 Super-Super Sites (3/3)

6. Great Slave Lake and BERMS (ABOVE), Canada

[Carbon; Climate Change, Conventions]

- **Centre Lat/Long:** N61.770° /W116.500° & N53.830° /W104.950°
- **Topic:** NISAR boreal forest cal/val sites
- **PI POC:** Paul Siqueira (siqueira@umass.edu)
- **Acquisition mode:** ScanSAR (HH+HV)
- **Pass direction:** Descending
- **Temporal frequency:** Every 42 days
- **Duration:** 2 years



7. Mississippi lakes, Louisiana, USA

[Climate Change, Conventions]

- **Centre Lat/Long:** N32.060° /W91.135° & N29.510° /W91.435°
- **Topic:** NISAR wetlands cal/val sites
 - **PI POC:** Bruce Chapman, JPL (bruce.d.chapman@jpl.nasa.gov)
 - **Acquisition mode:** Full polarisation (QP)
 - **Pass direction:** Ascending
 - **Temporal frequency:** Monthly, or better
 - **Duration:** 2 years



PKC Recommendations to JAXA

- **ALOS-2:**
 - **Continuation of ALOS-2 BOS** *at least* until ALOS-4 is in full operations (i.e. extend ALOS-2 “Extension Phase”)
 - **Assure continued ALOS-2 operations** until EOL (i.e. also after extended “Extension Phase”) - even if at lower duty cycle, with lower budget etc.
 - ALOS-2/ALOS-4 InSAR (misc constellations)
 - Very-Dense Time-series, Pol-InSAR, etc.
 - Supplement ALOS-4 BOS
- **ALOS-4 to**
 - Continue with Basic Observation Scenario (BOS), while considering its relevance and impact in the new international “multi L-band” environment.
 - **Consider Global coverage BOS in Full-Pol mode** (Global mosaics, Faraday rot corr)
- **EORA2**
 - K&C Science Team positive to JAXA’s Joint PI workshop arrangement this year
 - At 2021 PI workshop – more open K&C Sessions possible
 - **50 scenes/year AUIG2 allocation also for PKC members (same as other EORA2 Pis)**

Join the soloEO CO₂ Challenge – offset your C travel footprints!

Our community (EO) - with our extensive travel - emit more CO₂ than any average western citizen!

<http://databank.worldbank.org/data/reports.aspx?source=2&series=EN.ATM.CO2E.PC&country=#>

Where to donate?

Your call. Good to select an organisation subscribing to the “Gold Standard” certification:

http://wwf.panda.org/what_we_do/how_we_work/working_with_business/climate/offsetting/gold_standard/

I offset my CO₂ emissions to The Nature Conservancy:

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.qantasfutureplanet.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