



ALOS Kyoto & Carbon Initiative KC#24 update

Ake Rosenqvist
K&C Science Coordinator



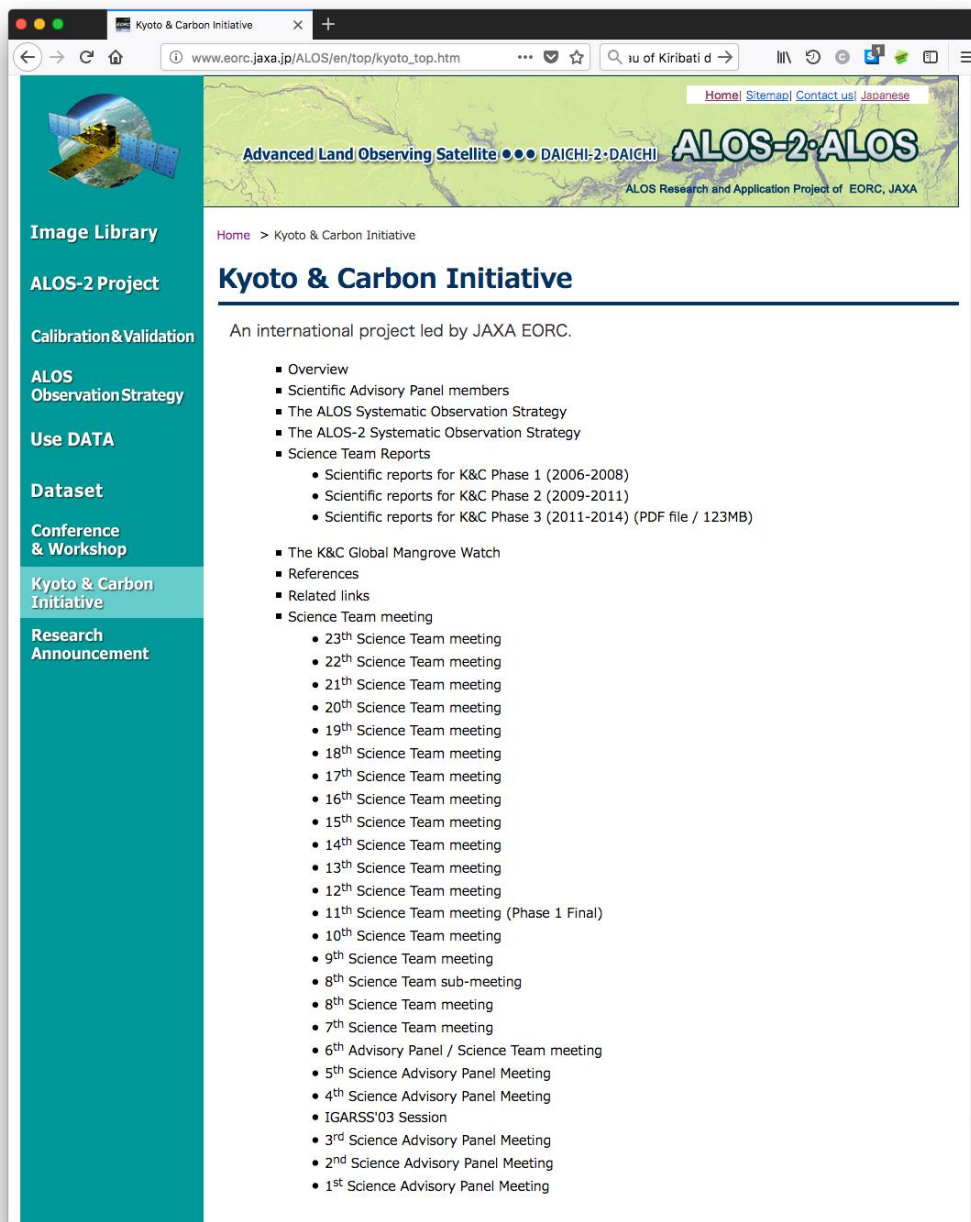
Kyoto & Carbon Initiative – Phase 4

K&C objective: To lead the development of advanced L-band SAR applications in support of information needs posed by the “4 C’s”:

- Terrestrial **C**arbon cycle science;
- Multinational Environmental **C**onventions;
- Environmental **C**onservation
- **C**limate Change

3 Thematic focus areas:

- **F**orestry (24 groups)
- **W**etlands (7 groups)
- **G**laciers (1 group)

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#23)
- PALSAR and PALSAR-2 systematic observation strategy (BOS)
- JAXA 25m mosaics and FNF classifications

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

The screenshot shows the LinkedIn group page for the ALOS Kyoto & Carbon Initiative. The page header includes the group name and 262 members. A conversation box is visible at the top left. The main content area features two posts by Ake Rosenqvist, owner of solo Earth Observation (soloEO). The first post, titled 'JERS-1 historical archive publicly open free of charge', mentions the release of the 1992-1998 archive of JERS-1 data (SAR, VNIR, SWIR) by JAXA. The second post, titled 'JERS-1 SAR 25m global mosaics online', mentions the release of the 25m global mosaic generated from JERS-1 SAR historical data. The right sidebar contains information about the group, a list of members, and a section for ads.

ALOS Kyoto & Carbon Initiative
262 members

Start a conversation with your group

Enter a conversation title...

Conversations Jobs

FEATURED

Ake Rosenqvist
solo Earth Observation (soloEO)
OWNER

JERS-1 historical archive publicly open free of charge
Excellent news from JAXA. The whole 1992-1998 archive of JERS-1 data (SAR, VNIR, SWIR) is now open to the public free of charge.
JERS-1 SAR was the first satellite mission subject to a systematic data acquisition strategy - with focus on the pan-trop... Show more

Like Comment 1

Reply to this conversation...

Ake Rosenqvist
solo Earth Observation (soloEO)
OWNER

JERS-1 SAR 25m global mosaics online
JAXA has now released the 25 m global mosaic generated from JERS-1 SAR historical data from the mid-1990s. Provided in the same format as the 2007-2010 ALOS and 2015 ALOS-2 global mosaics already publicly available, the JERS-1 baseline dataset allows... Show more

Like Comment 3

ABOUT THIS GROUP

The ALOS Kyoto & Carbon (K&C) Initiative is an international collaboration led by the Japan Aerospace Exploration Agency (JAXA). It is supported by an international Science Team consisting of some 25 research groups from 14 countries, and set out to ... Show more

MEMBERS 262 members

Invite others

Ads You May Be Interested In

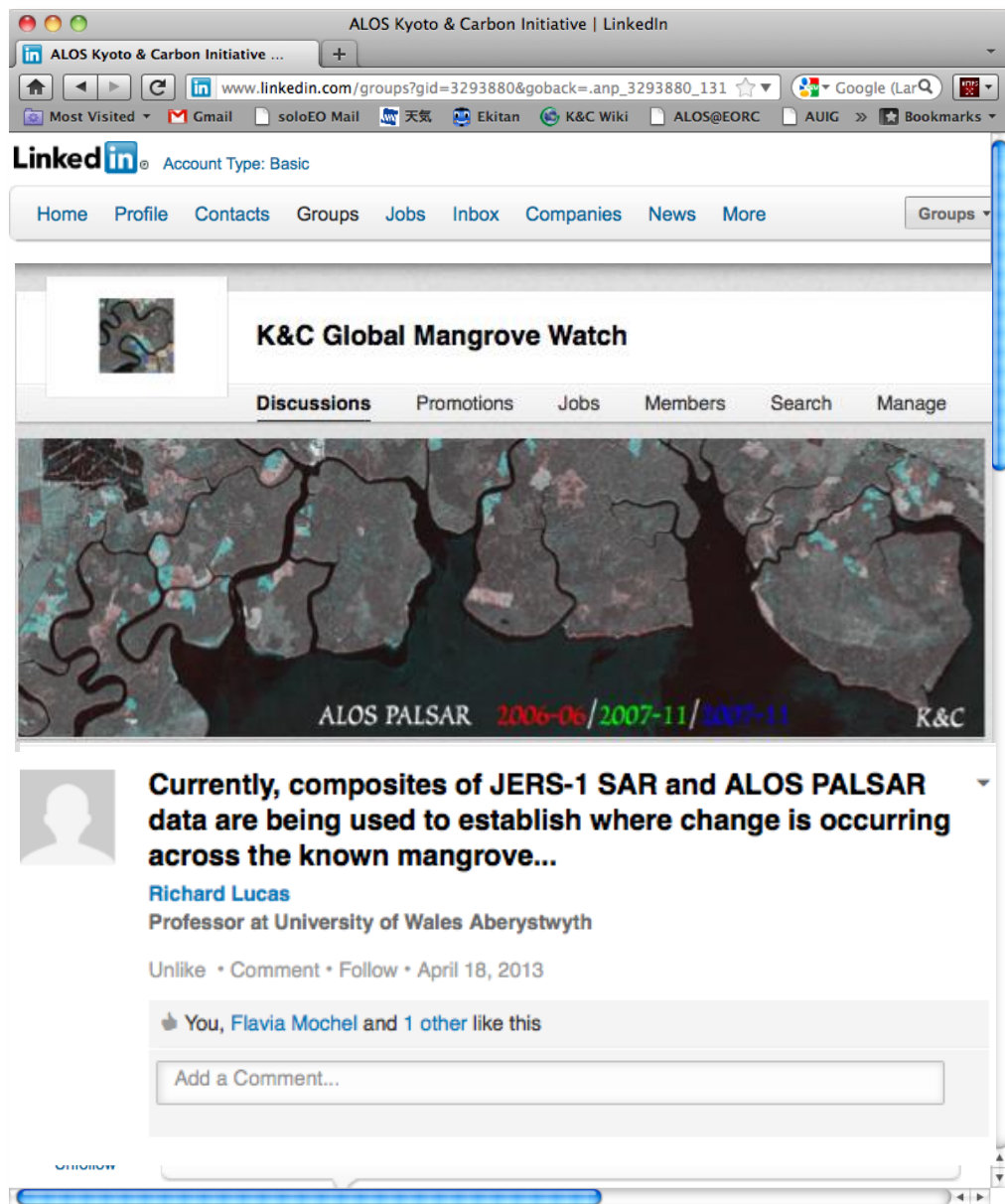
- The Cloud - Done Right**
High performance, managed cloud built by professionals, for professionals.
- Superior Ceramic Results**
Our engineers work with you to solve your challenges. Talk to us now!
- Cost-effective log roads**
Build strong, all-weather stabilized roads with low environmental footprint.

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LinkedIn Group : ALOS Kyoto & Carbon Initiative

K&C-related announcements to a
broader community.

Request membership directly at
group page at
<http://www.linkedin.com>
OR send email to
ake.rosenqvist@soloEO.com



LinkedIn Group : K&C Global Mangrove Watch

GMW and broader mangrove
related information.

Request membership directly at
group page at
<http://www.linkedin.com>
OR send email to
ake.rosenqvist@soloEO.com

K&C Wiki

Blog for K&C members

MEETINGS

THEMES

K&C PUBLICATIONS LIBRARY

BACKGROUND



ALOS Kyoto & Carbon Initiative

[Leave a reply](#)

Background

The ALOS Kyoto & Carbon (K&C) Initiative is an international collaboration led by the Japan Aerospace Exploration Agency (JAXA), established in 2001 to support data and information needs of international **environmental conventions, carbon cycle science, climate change and conservation of the environment** – referred to as the “4C” thematic drivers. With focus on the utilisation of L-band SAR, the Initiative builds on the experience gained from the Global Rain Forest Mapping (GRFM) and Global Boreal Forest Mapping (GBFM) projects, in which SAR data from the JERS-1 were used to generate consistent image mosaics over the entire tropical and boreal zones of Earth.

The K&C Initiative is led by JAXA's Earth Observation Research Center (EORC) and supported by an international Science Team consisting of 33 research groups from 19 countries. It is undertaken within the context of three themes which relate to three specific global biomes: **forests, wetlands, and glaciers**.

K&C Wiki

This K&C Wiki is a tool for the K&C Science Team to exchange results and information. It is also open to the public as a means to share information about the Kyoto & Carbon Initiative.

At the moment, the K&C Wiki site has the following functions:

1. [Meetings](#). Information about K&C Science Team meetings, relevant workshops or special sessions
2. [K&C Publications Library](#). A place to search for and upload publications by the K&C team
3. [K&C project information and results](#) according to the Forest, Wetlands and Glacier Themes.

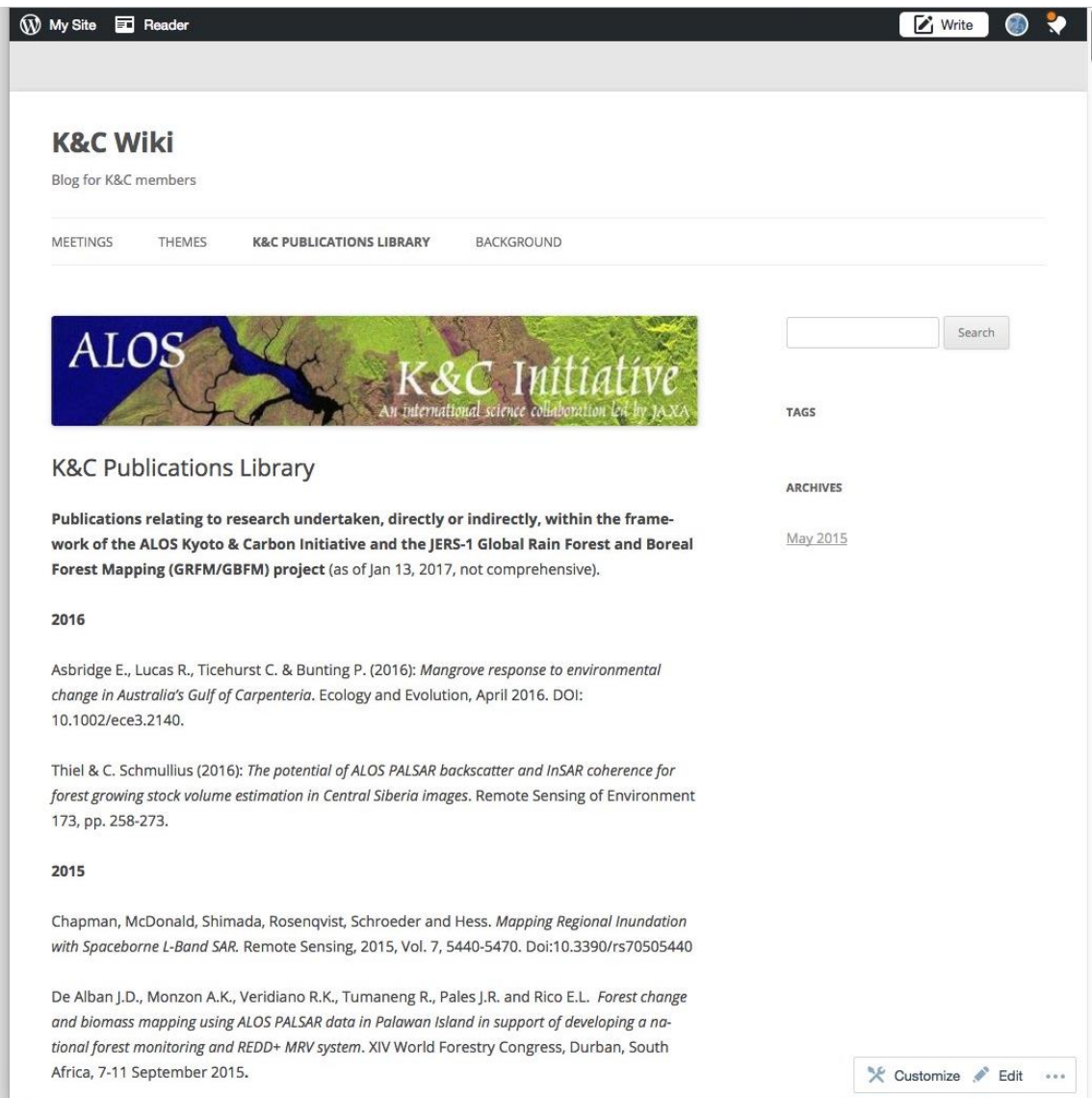
Contact: [Ake Rosenqvist](#), K&C coordinator

[Customize](#) ***

K&C Wiki

<https://kcwiki.wordpress.com/>

- 1.Meeting info (including agendas!)
- 2.K&C Publications Library
- 3.Project info and results
 - Forest theme
 - Wetlands theme
 - Glacier theme




The screenshot shows a web browser displaying the K&C Wiki website. The top navigation bar includes 'My Site', 'Reader', and 'Write' buttons. The main header features the 'K&C Wiki' title and a subtitle 'Blog for K&C members'. Below this is a navigation menu with 'MEETINGS', 'THEMES', 'K&C PUBLICATIONS LIBRARY', and 'BACKGROUND'. A banner image for 'ALOS K&C Initiative' is displayed. The 'K&C Publications Library' section is active, showing a search bar and a list of publications. The publications are organized by year, with '2016' and '2015' visible. The 2016 section lists two papers: one by Asbridge et al. (2016) on mangrove response and another by Thiel & C. Schmulilius (2016) on forest stock volume estimation. The 2015 section lists a paper by Chapman et al. (2015) on regional inundation mapping and a paper by De Alban et al. (2015) on forest change and biomass mapping. The bottom of the page has a 'Customize' button.

My Site Reader Write

K&C Wiki

Blog for K&C members

MEETINGS THEMES **K&C PUBLICATIONS LIBRARY** BACKGROUND



K&C Publications Library

Publications relating to research undertaken, directly or indirectly, within the framework of the ALOS Kyoto & Carbon Initiative and the JERS-1 Global Rain Forest and Boreal Forest Mapping (GRFM/GBFM) project (as of Jan 13, 2017, not comprehensive).

2016

Asbridge E., Lucas R., Ticehurst C. & Bunting P. (2016): *Mangrove response to environmental change in Australia's Gulf of Carpenteria*. Ecology and Evolution, April 2016. DOI: 10.1002/ece3.2140.

Thiel & C. Schmulilius (2016): *The potential of ALOS PALSAR backscatter and InSAR coherence for forest growing stock volume estimation in Central Siberia images*. Remote Sensing of Environment 173, pp. 258-273.

2015

Chapman, McDonald, Shimada, Rosenqvist, Schroeder and Hess. *Mapping Regional Inundation with Spaceborne L-Band SAR*. Remote Sensing, 2015, Vol. 7, 5440-5470. Doi:10.3390/rs70505440

De Alban J.D., Monzon A.K., Veridiano R.K., Tumaneng R., Pales J.R. and Rico E.L. *Forest change and biomass mapping using ALOS PALSAR data in Palawan Island in support of developing a national forest monitoring and REDD+ MRV system*. XIV World Forestry Congress, Durban, South Africa, 7-11 September 2015.

Customize Edit ...

K&C Wiki

<https://kcwiki.wordpress.com/>

K&C Publications Library

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

130+ references & PDFs from
Science Team 1996–2017

Please provide your latest
publications

K&C Phase 4 Extension

JAXA has approved a one-year extension of the K&C (^_^)

Extension proposals to Ake due (by Jan 22...) before end of this week:

- Summary of results and achievements according to your original plans for Phase 4
- List of ground truth data provided to JAXA (see your contract Appendix A)
- Expected additional results for the one-year extension.

Time schedule

Feb: Brief evaluation by JAXA

Feb/Mar: Approved groups will be contacted by the JAXA Contracts Dept for contract amendments.

K&C Phase 4 – Ground truth data to JAXA

Those of you who have not yet provided your ground truth data to JAXA (see your contacts for details), please do so ASAP.

Note that even if some of your data is publicly available, download and provide all data to JAXA in a single (zip) file.

K&C Special Issue of
Remote Sensing

The screenshot shows the MDPI Remote Sensing Special Issue website. The main heading is "Special Issue 'The Kyoto and Carbon Initiative—Environmental Applications by ALOS-2 PALSAR-2'". It mentions a submission deadline of 31 March 2018. The page includes a search bar, a journal menu, an e-mail alert sign-up, a journal browser, and a list of keywords. A sidebar on the right promotes MDPI's English editing service for academic papers.

Journal Menu

- Remote Sensing Home
- About this Journal
- Journal Awards
- Journal Statistics
- Most Cited Articles
- Indexing & Abstracting
- Instructions for Authors
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Journal Browser

volume - issue - **Go**

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- Vol. 10 (2018)
- Vol. 9 (2017)
- Vol. 8 (2016)
- Vol. 7 (2015)
- Vol. 6 (2014)
- Vol. 5 (2013)
- Vol. 4 (2012)
- Vol. 3 (2011)
- Vol. 2 (2010)
- Vol. 1 (2009)

2018 REMOTE SENSING TRAVEL AWARD FOR YOUNG INVESTIGATOR

Special Issue "The Kyoto and Carbon Initiative—Environmental Applications by ALOS-2 PALSAR-2"

A special issue of *Remote Sensing* (ISSN 2072-4292).

Deadline for manuscript submissions: **31 March 2018**

Special Issue Information

Dear Colleagues,

The Kyoto and Carbon (K&C) Initiative is an international collaborative project led by the Japan Aerospace Exploration Agency (JAXA). It was established in 2001 to stimulate the development of L-band Synthetic Aperture Radar (SAR) applications related to the "4 Cs": international environmental Conventions (such as UNFCCC/REDD+ and the Ramsar Wetlands Convention), environmental Conservation, Carbon cycle science and Climate change. The current phase of the K&C involves 32 research groups from 19 countries.

This special issue of *Remote Sensing* is dedicated to demonstrate new applications of L-band SAR—alone or in combination with other radar and/or optical satellite data sources—related to the "4 C" themes outlined above. We invite both K&C Science Team members and other researchers using ALOS-2 PALSAR-2 to submit.

Dr. Ake Rosenqvist
Prof. Masanobu Shimada
Dr. Takeo Tadono
Guest Editors

Manuscript Submission Information

Manuscripts should be submitted online at www.mdpi.com by registering and logging in to this website. Once you are registered, click here to go to the submission form. Manuscripts can be submitted until the deadline. All papers will be peer-reviewed. Accepted papers will be published continuously in the journal (as soon as accepted) and will be listed together on the special issue website. Research articles, review articles as well as short communications are invited. For planned papers, a title and short abstract (about 100 words) can be sent to the Editorial Office for announcement on this website.

Submitted manuscripts should not have been published previously, nor be under consideration for publication elsewhere (except conference proceedings papers). All manuscripts are thoroughly refereed through a single-blind peer-review process. A guide for authors and other relevant information for submission of manuscripts is available on the Instructions for Authors page. *Remote Sensing* is an international peer-reviewed open access monthly journal published by MDPI.

Please visit the Instructions for Authors page before submitting a manuscript. The Article Processing Charge (APC) for publication in this open access journal is 1800 CHF (Swiss Francs). Submitted papers should be well formatted and use good English. Authors may use MDPI's English editing service prior to publication or during author revisions.

Keywords

- ALOS-2 PALSAR-2
- Forest
- Wetlands
- Environment
- Sensor svnerov
- Carbon
- Climate

Published Papers

This special issue is now open for submission.

Back to Top

- Results from Phase 4 – all themes
- Submission deadline:
31 March 2018
- Submission fee: 1800 CHF
(~US\$1950 / ~€1550 / ~21万円)

http://www.mdpi.com/journal/remote_sensing/special_issues/KC_rs

The soloEO CO₂ Challenge!

Join the soloEO CO₂ challenge - Offset your travel carbon footprints in 2018!

Our community (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=#>

My CO₂ emissions in 2017: Approx 12 tonnes, air travel *excluded*.

When including air travel (10 int'l trips in 2017), >30 tonnes!

Therefore, soloEO travels carbon neutral since 2012.

Since 2017, I offset all CO₂ emissions (home & travel).

It's cheap. It's simple. It's a moral obligation for us as a community concerned about the environment. If we don't do it, who will?

Join in! "Just do it"

(Green-washing? Perhaps. But definitely better than doing nothing...)

The soloEO CO₂ Challenge

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