



European Research Council
Established by the European Commission

Trees outside forests in global drylands

Resultados

Información del proyecto

TOFDRY

Identificador del acuerdo de subvención:
947757

[Sitio web del proyecto](#)

DOI

[10.3030/947757](https://doi.org/10.3030/947757)

Fecha de la firma de la CE

20 Agosto 2020

Fecha de inicio

1 Noviembre 2020

Fecha de finalización

31 Octubre 2025

Financiado con arreglo a

EXCELLENT SCIENCE - European Research Council (ERC)

Coste total

€ 1 711 467,00

Aportación de la UE

€ 1 711 467,00

Coordinado por

KOBENHAVNS UNIVERSITET



Denmark

CORDIS proporciona enlaces a los documentos públicos y las publicaciones de los proyectos de los programas marco HORIZONTE.

Los enlaces a los documentos y las publicaciones de los proyectos del Séptimo Programa Marco, así como los enlaces a algunos tipos de resultados específicos, como conjuntos de datos y «software», se obtienen dinámicamente de [OpenAIRE](#).

Publicaciones

[Recent decrease of the impact of tropical temperature on the carbon cycle linked to increased precipitation](#)

Autores: Wenmin Zhang, Guy Schurgers, Josep Peñuelas, Rasmus Fensholt, Hui Yang, Jing Tang, Xiaowei Tong, Philippe Ciais & Martin Brandt

Publicado en: Nature Communications, Edición 14, 2023, ISSN 2041-1723

Editor: Nature Publishing Group

DOI: 10.1038/s41467-023-36727-2

[Sub-continental-scale carbon stocks of individual trees in African drylands](#)

Autores: Compton Tucker, Martin Brandt, Pierre Hiernaux, Ankit Kariryaa, Kjeld Rasmussen, Jennifer Small, Christian Igel, Florian Reiner, Katherine Melocik, Jesse Meyer, Scott Sinno, Eric Romero, Erin Glennie, Yasmin Fitts, August Morin, Jorge Pinzon, Devin McClain, Paul Morin, Claire Porter, Shane Loeffler, Laurent Kergoat, Bil-Assanou Issoufou, Patrice Savadogo, Jean-Pierre Wigneron, Benjamin Poulter, Ph

Publicado en: Nature, Edición 615, 2023, ISSN 0028-0836

Editor: Nature Publishing Group

DOI: 10.1038/s41586-022-05653-6

[Beyond tree cover: Characterizing southern China's forests using deep learning](#)

Autores: Qian Li, Yuemin Yue, Siyu Liu, Martin Brandt, Zhengchao Chen, Xiaowei Tong, Kelin Wang, Jingyi Chang, Rasmus Fensholt

Publicado en: Remote Sensing in Ecology and Conservation, 2022, ISSN 2056-3485

Editor: Wiley

DOI: 10.1002/rse2.292

[Global quantification of the bidirectional dependency between soil moisture and vegetation productivity](#)

Autores: Wenmin Zhang, Fangli Wei, Stéphanie Horion, Rasmus Fensholt, Matthias Forkel, Martin Brandt

Publicado en: Agricultural and Forest Meteorology, Edición 313, 2022, ISSN 0168-1923

Editor: Elsevier BV

DOI: 10.1016/j.agrformet.2021.108735

[Socio-economic and climatic changes lead to contrasting global urban vegetation trends](#)

Autores: Wenmin Zhang, MarkRandall, Marina B.Jensen, Martin Brandt, Qiao Wang, Rasmus Fensholt

Publicado en: Global Environmental Change, Edición 71, 2021, ISSN 0959-3780

Editor: Elsevier BV

DOI: 10.1016/j.gloenvcha.2021.102385

[A large but transient carbon sink from urbanization and rural depopulation in China](#)

Autores: Xiaoxin Zhang, Martin Brandt, Xiaowei Tong, Philippe Ciais, Yuemin Yue, Xiangming Xiao, Wenmin Zhang, Kelin Wang & Rasmus Fensholt

Publicado en: Nature Sustainability, Edición 5, 2022, Página(s) 321-328 (2022), ISSN 2398-9629

Editor: Springer Nature

DOI: 10.1038/s41893-021-00843-y

[Nation-wide mapping of tree-level aboveground carbon stocks in Rwanda](#)

Autores: Maurice Mugabowindekwe, Martin Brandt, Jérôme Chave, Florian Reiner, David L. Skole, Ankit Kariryaa, Christian Igel, Pierre Hiernaux, Philippe Ciais, Ole Mertz, Xiaoye Tong, Sizhuo Li, Gaspard Rwanyiziri, Thaulin Dushimiyimana, Alain Ndoli, Valens Uwizeyimana, Jens-Peter Barnekow Lillesø, Fabian Gieseke, Compton J. Tucker, Sassan Saatchi & Rasmus Fensholt

Publicado en: Nature Climate Change, 2023, ISSN 1758-678X

Editor: Nature Publishing Group

DOI: 10.1038/s41558-022-01544-w

[Deep learning enables image-based tree counting, crown segmentation, and height prediction at national scale](#)

Autores: Sizhuo Li, Martin Brandt, Rasmus Fensholt, Ankit Kariryaa, Christian Igel, Fabian Gieseke, Thomas Nord-Larsen, Stefan Oehmcke, Ask Holm Carlsen, Samuli Junttila, Xiaoye Tong, Alexandre d'Aspremont, Philippe Ciais

Publicado en: PNAS Nexus, 2023, ISSN 2752-6542

Editor: Oxford Academic

DOI: 10.1093/pnasnexus/pgad076

[The Carbon Sink Potential of Southern China After Two Decades of Afforestation](#)

Autores: X. M. Zhang; M. Brandt; Y. M. Yue; X. W. Tong; K. L. Wang; R. Fensholt

Publicado en: Earth's Future, Edición 1, 2022, ISSN 2328-4277

Editor: Wiley

DOI: 10.1029/2022ef002674

[More than one quarter of Africa's tree cover is found outside areas previously classified as forest](#)

Autores: Florian Reiner, Martin Brandt, Xiaoye Tong, David Skole, Ankit Kariryaa, Philippe Ciais, Andrew Davies, Pierre Hiernaux, Jérôme Chave, Maurice Mugabowindekwe, Christian Igel, Stefan Oehmcke, Fabian Gieseke, Sizhuo Li, Siyu Liu, Sassan Saatchi, Peter Boucher, Jenia Singh, Simon Taugourdeau, Morgane Dendoncker, Xiao-Peng Song, Ole Mertz, Compton J. Tucker & Rasmus Fensholt

Publicado en: Nature Communications, 2023, ISSN 2041-1723

Editor: Nature Publishing Group

DOI: 10.1038/s41467-023-37880-4

[Carbon loss from forest degradation exceeds that from deforestation in the Brazilian Amazon](#)

Autores: Yuanwei Qin, Xiangming Xiao, Jean-Pierre Wigneron, Philippe Ciais, Martin Brandt, Lei Fan, Xiaojun Li, Sean Crowell, Xiaocui Wu, Russell Doughty, Yao Zhang, Fang Liu, Stephen Sitch & Berrien Moore III

Publicado en: Nature Climate Change, Edición 11, 2021, Página(s) 442-448, ISSN 1758-6798

Editor: Springer Nature

DOI: 10.1038/s41558-021-01026-5

[Siberian carbon sink reduced by forest disturbances](#)

Autores: Lei Fan, Jean-Pierre Wigneron, Philippe Ciais, Jérôme Chave, Martin Brandt, Stephen Sitch, Chao Yue, Ana Bastos, Xin Li, Yuanwei Qin, Wenping Yuan, Dmitry Schepaschenko, Liudmila Mukhortova, Xiaojun Li, Xiangzhuo Liu, Mengjia Wang, Frédéric Frappart, Xiangming Xiao, Jingming Chen, Mingguo Ma, Jianguang Wen, Xiuzhi Chen, Hui Yang, Dave van Wees & Rasmus Fensholt

Publicado en: Nature Geoscience, 2022, ISSN 1752-0894

Editor: Nature Publishing Group

DOI: 10.1038/s41561-022-01087-x

[Mapping the Abundance of Multipurpose Agroforestry *Faidherbia albida* Trees in Senegal](#)

Autores: Tingting Lu; Martin Brandt; Xiaoye Tong; Pierre Hiernaux; Louise Leroux; Babacar Ndao; Rasmus Fensholt

Publicado en: Remote Sensing, Edición 2, 2021, ISSN 2072-4292

Editor: Multidisciplinary Digital Publishing Institute (MDPI)

DOI: 10.3390/rs14030662

[Globally Increasing Atmospheric Aridity Over the 21st Century](#)

Autores: Zhongxiang Fang, Wenmin Zhang, Martin Brandt, Abdulhakim M. Abdi, Rasmus Fensholt

Publicado en: Earth's Future, 2022, ISSN 2328-4277

Editor: Wiley

DOI: 10.1029/2022ef003019

[Trees outside of forests as natural climate solutions](#)

Autores: David Skole, Cheikh Mbow, Maurice Mugabowindekwe, Martin Brandt, Jay Samek

Publicado en: Nature Climate Change, Edición 11, 2021, Página(s) 1013-1016, ISSN 1758-6798

Editor: Springer Nature

DOI: 10.1038/s41558-021-01230-3

Conjuntos de datos

Conjuntos de datos vía OpenAIRE (2)



[The baobab trees density over sahel \(500m\)](#)

Autores: Huang, Ke; Brandt, Martin

Publicado en: Zenodo

[Dataset: Trees on smallholder farms and forest restoration are critical for Rwanda to achieve net zero emissions](#)

Autores: Mugabowindekwe, Maurice; Brandt, Martin; Mukuralinda, Athanase; Ciais, Philippe; Reiner, Florian; Kariryaa, Ankit; Igel, Christian; Chave, Jérôme; Mertz, Ole; Hiernaux, Pierre; Xiaoye, Tong; Rwanyiziri, Gaspard; Gominski, Dimitri; Sizhou, Li; Siyu, Liu; Gasangwa, Ivan; Hategekimana, Yves; Ndoli, Alain; Nduwamungu, Jean; Saatchi, Sassan; Fensholt, Rasmus

Publicado en: Zenodo

Última actualización: 25 Febrero 2025

Permalink: <https://cordis.europa.eu/project/id/947757/results/es>

European Union, 2025