

## LETTER FROM SCIENTISTS TO THE EU PARLIAMENT REGARDING FOREST BIOMASS

January 9, 2018

To Members of the European Parliament,

As the European Parliament commendably moves to expand the renewable energy directive, we strongly urge members of Parliament to amend the present directive to avoid expansive harm to the world's forests and the acceleration of climate change. The flaw in the directive lies in provisions that would let countries, power plants and factories claim credit toward renewable energy targets for deliberately cutting down trees to burn them for energy. The solution should be to restrict the forest biomass eligible under the directive to residues and wastes.

For decades, European producers of paper and timber products have generated electricity and heat as beneficial by-products using wood wastes and limited forest residues. Since most of these waste materials would decompose and release carbon dioxide within a few years, using them to displace fossil fuels can reduce net carbon dioxide emissions to the atmosphere in a few years as well. By contrast, cutting down trees for bioenergy releases carbon that would otherwise stay locked up in forests, and diverting wood otherwise used for wood products will cause more cutting elsewhere to replace them.

Even if forests are allowed to regrow, using wood deliberately harvested for burning will increase carbon in the atmosphere and warming for decades to centuries – as many studies have shown – even when wood replaces coal, oil or natural gas. The reasons are fundamental and occur regardless of whether forest management is “sustainable.” Burning wood is inefficient and therefore emits far more carbon than burning fossil fuels for each kilowatt hour of electricity produced. Harvesting wood also properly leaves some biomass behind to protect soils, such as roots and small branches, which decompose and emit carbon. The result is a large “carbon debt.” Re-growing trees and displacement of fossil fuels may eventually pay off this “carbon debt” but only over long periods. Overall, allowing the harvest and burning of wood under the directive will transform large reductions otherwise achieved through solar and wind into large increases in carbon in the atmosphere by 2050. Time matters. Placing an additional carbon load in the atmosphere for decades means permanent damages due to more rapid melting of glaciers and thawing of permafrost, and more packing of heat and acidity into the world's oceans. At a critical moment when countries need to be “buying time” against climate change, this approach amounts to “selling” the world's limited time to combat it.

The adverse implications not just for carbon but for global forests and biodiversity are also large. More than 100% of Europe's annual harvest of wood would be needed to supply just one third of the expanded renewable energy directive. Because demand for wood and paper will remain, the result will be increased degradation of forests around the world. The example Europe would set for other countries would be even more dangerous. Europe has been properly encouraging countries such as Indonesia and Brazil to protect their forests, but the message of this directive is “cut your forests so long as someone burns them for

energy.” Once countries invest in such efforts, fixing the error may become impossible. If the world moves to supply just an additional 3% of global energy with wood, it must double its commercial cuttings of the world’s forests.

By 1850, the use of wood for bioenergy helped drive the near deforestation of western Europe even when Europeans consumed far less energy than they do today. Although coal helped to save the forests of Europe, the solution to replacing coal is not to go back to burning forests, but instead to replace fossil fuels with low carbon sources, such as solar and wind. We urge European legislators to amend the present directive to restrict eligible forest biomass to appropriately defined residues and wastes because the fates of much of the world’s forests and the climate are literally at stake.

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358. Massimo Verdoya; Professor; University of Genova - Italy - Dept. of Earth, Environmental and Life Sciences DISTAV
359. Frank Götmark; Professor; University of Gothenburg, Sweden
360. Franco Montanari; Professor; Università degli Studi di Genova (Italy)
361. Anne Sverdrup-Thygeson; Professor; Norw. Univ. of Life Science
362. Rolf A. Ims; Professor; UiT- The Arctic University of Norway
363. Tom Swinfield; Research Scientist or Scholar; University of Cambridge
364. Martin Berg; Masters; Lund Univeristy
365. Lars Johan Erkel; Research Scientist or Scholar; University of Gothenburg, Sweden
366. Sten Svantesson; PhD Candidate; Uni. of Gothenburg, Dept. of Biological and Environmental Sciences
367. John-Arvid Grytnes; Professor; University of Bergen
368. Søren Faurby; Research Scientist or Scholar; Göteborgs universitet
369. Charlotta Kvarnemo; Professor; University of Gothenburg
370. Micaela Hellström; Research Scientist or Scholar; Stockholm University
371. Perla Maiolino; Post-Doctoral Fellow; Cambridge University
372. Erik E Stange; Research Scientist or Scholar; Norwegian Institute for Nature Research
373. Harini Nagendra; Professor; Azim Premji University
374. Håkan Hytteborn; Professor Emeritus; Norwegian University of Science and Technology
375. Gabor L Lövei; Professor; Aarhus University/ Fujian Agricultural & Forestry University
376. Anna Boato; Professor; Università di Genova
377. Iulie Aslaksen; Research Scientist or Scholar; Statistics Norway/Research Department
378. Jan Willem Erisman; Professor; VU university Amsterdam and Louis Bolk Institute
379. Zoltán Sándor VARGA ; Professor Emeritus; Department Evolutionary Zoology, Faculty of Science, University of Deberecen
380. Bente Jessen Graae; Professor; Norwegian Science and Technology
381. Erik Framstad; Research Director; NINA

382. Patrick Hostert; Professor; Humboldt University Berlin
383. Alexandra Balogh; Post-Doctoral Fellow; Stockholm University
384. Francesco Maria Sabatini; Post-Doctoral Fellow; Humboldt-Universität zu Berlin
385. Philip Platts; Research Fellow; University of York
386. Sara Holmgren ; Research Scientist or Scholar; Swedish University of Agricultural Sciences
387. Solen Le Clec'h; Post-Doctoral Fellow; ETH Zürich
388. Douglas Yu; Professor; University of East Anglia
389. Attila Marton; Masters; University of Debrecen, Hungary
390. Massimo Paolucci; Professor; UNiversity of Genova
391. Zdenek BURIVAL; Masters, Executive Director; AURA, s.r.o.
392. David Kleijn; Professor; Wageningen University
393. Inigo Miguelez; Masters; University pf Copenhagen
394. Hanna Kokko; Professor; University of Zurich
395. Sven Lautenbach; Professor; University of Bonn
396. Klara Fischer; Research Scientist or Scholar; Swedish University of Agricultural Sciences
397. apl.Prof.i.R. Michael Schmitt; Professor Emeritus; Ernst-Moritz-Arndt-Universitaet Greifswald, Allgemeine & Systemarische Zoologie
398. Julien Vollering; PhD Candidate; University of Oslo
399. John E Hermansen; Professor; NTNU
400. Peter C Frumhoff; PhD, Chief Climate Scientist; Union of Concerned Scientists
401. Jenni Nordén; Research Scientist or Scholar; Norwegian Institute for Nature Research
402. Lyndon Estes; Professor; Clark University
403. Lisa Westholm; PhD; Focali
404. Björn Nordén; Research Scientist or Scholar; Norwegian institute for nature research
405. Laura German; Professor; University of Georgia
406. Carol Hunsberger; Assistant Professor; University of Western Ontario
407. Frances Seymour; Masters, See separate email for title; World Resources Institute
408. B.Bozetka; PhD; Nicolaus Copernicus University
409. Mats Grahn; Professor; Södertörn University
410. Giancarlo Mauceri; Professor; Università di Genova
411. Margaret E Conroy; PhD; Rutgers
412. Martin Stervander; Post-Doctoral Fellow; University of Oregon
413. Oskar Brattstrom; Post-Doctoral Fellow; University of Cambridge
414. Susanne Åkesson; Professor; Lund University
415. Anders Hedenström; Professor; Lund University
416. Nayden Chakarov; Post-Doctoral Fellow; Bielefeld University
417. Rebecca Tittler; PhD; Concordia University
418. Karin Rengefors ; Professor; Lund University
419. Magnus Ellström ; PhD; Lund University
420. Thanos Smanis; PhD Candidate; Environmental Consultant of HCL Group
421. Dr. Jochen A.G. Jaeger ; Professor; Concordia University Montreal
422. Jukka Lausmaa; PhD; RISE Research Institutes of Sweden
423. David Coomes; Professor; University of Cambridge
424. Luca; Post-Doctoral Fellow; Radboud University
425. Nathan S. Debortoli; Post-Doctoral Fellow; McGill University
426. Sonia Wesche; Professor; University of Ottawa
427. Suvi Ponnikas; Post-Doctoral Fellow; Lund University
428. Dr. Maura Hanrahan; Professor; University of Lethbridge
429. Michael Allchin; PhD Candidate, Research manager; Quesnel River Research Centre, University of Northern BC
430. Jody Peters; PhD; University of Notre Dame
431. Alex Latta; Professor; Wilfrid Laurier University
432. Leah Germer; Masters; World Bank
433. Martin Scheringer; Professor; Masaryk-Universität, Brünn
434. John-Michael Davis; Post-Doctoral Fellow; University of Illinois Urbana-Campaign

435. Held; Professor; University of Hamburg  
436. Jeffrey Milder; Research Scientist or Scholar, PhD; Rainforest Alliance & Cornell University  
437. Marcia C M Marques; Professor; UFPR - Federal University of Parana, Brazil  
438. Sissel Sjöberg; Post-Doctoral Fellow; Lund University  
439. Annie Lalancette; Post-Doctoral Fellow; Saint Mary's University  
440. Bradley B Walters, PhD; Professor; Mount Allison University (Canada)  
441. William C. Burns; Professor; Co-Executive Director, Forum for Climate Engineering Assessment, American University  
442. Elizabeth Allison; Professor; California Institute of Integral Studies  
443. Henrik Selin; Professor; Frederick S Pardee School of Global Studies at Boston University  
444. Jean-Paul Bourque; Founder of RIRE; Retired Independent Research in Ecology(RIRE)  
445. Edwin J. Green; Professor; Rutgers University  
446. Teo Mora; Professor; University of Genoa  
447. Karen Holl; Professor; University of California, Santa Cruz  
448. Nora Davis; Research Scientist or Scholar; Public sector  
449. Jakob Skovgaard; Research Scientist or Scholar; Lund University  
450. Gabriela Kuetting; Professor; Rutgers University  
451. Tali Neta; Professor; Lethbridge College  
452. Jessica Green ; Professor; New York University  
453. Prof Susan Page ; Professor; University of Leicester  
454. Celia A. Harvey; PhD; Conservation International  
455. Jeremy Firestone; Professor, Director, Center for Carbon-free Power Integration; University of Delaware  
456. Hanna Sigeman ; PhD Candidate; Lund University  
457. Anna Persson; Post-Doctoral Fellow; Lund University  
458. Charlotte Epstein; Professor; University of Sydney  
459. Emma kritzberg ; Professor; Lund University  
460. Greg King; Professor; University of Alberta Augustana  
461. Joshua Daskin; Post-Doctoral Fellow; Yale University  
462. Els; Masters; Ottawa u  
463. Tartally András; PhD; University of Debrecen, Hungary  
464. Philipp Gärtner; Post-Doctoral Fellow; Leibniz Centre for Agricultural Landscape Research  
465. Nicholas Watts; Research Scientist or Scholar; Institute of Commonwealth Studies, School of Advanced Study, University of London  
466. Florian Poetzschner; Bachelor; Humboldt-University zu Berlin  
467. Yann Clough; Professor; Centre for Environmental and Climate Research, Lund University  
468. Andrew Foggo; Professor; University of Plymouth  
469. Gustavo de L. T. Oliveira; Post-Doctoral Fellow, PhD, Visiting Assistant Professor; Environmental Studies, Swarthmore College  
470. Tim Forsyth; Professor; London School of Economics and Political Science  
471. Hanna Laakkonen; Research manager; Lund university  
472. Bruce Marsh; Research Scientist or Scholar; CERN  
473. Emma Morgan; Post-Doctoral Fellow; Charles University in Prague  
474. Carsten Meyer; Research group leader; German Centre of Integrative Biodiversity Research  
475. Stefan Ernst; Masters; Humboldt-Universität zu Berlin  
476. Julie G. Zaehring; Post-Doctoral Fellow; Centre for Development and Environment, University of Bern, Switzerland  
477. Rutger A. Vos; Research Scientist or Scholar; Naturalis Biodiversity Center, the Netherlands  
478. Katie Horgan; PhD Candidate; University of Zurich  
479. Timothy Boucher; Masters; Self  
480. Petra Dvorak; Masters; Supsi  
481. Michel Sliger; Research professional; Université de Montréal  
482. chiara; Research Scientist or Scholar; University of Zurich  
483. Kateřina Geržová; Research Scientist or Scholar; Palackého University in Olomouc (Czech Republic)  
484. Stephanie Mayer; Masters; WSL Institute for Snow and Avalanche Research SLF  
485. Lisa Sheridan; Undergraduate; Princeton University

486. Neil Losin; PhD; Day's Edge Productions
487. Justine Atkins; PhD Candidate; Princeton University
488. Roylyn Nielson; No formal education just common sense.; Friend of the forests
489. Ciro Cabal; PhD Candidate; Princeton University
490. Camille Beasley; Masters; FL Dept of Environmental Protection
491. Kathleen Quinn; Associate Scientist; Invicro
492. Farhan Raza; Post-Doctoral Fellow; Weill Cornell medical college
493. Ian McFadden; PhD Candidate; UCLA
494. Alex Washburne; Post-Doctoral Fellow; Montana State University
495. Maike Nesper; PhD; ETH Zurich
496. Tomas Jedlicka; Masters; Waldorf school Brno, Czech Republic
497. Deirdre Clark; PhD; University of Iceland
498. Christopher Martius; Research Scientist or Scholar; Center for International Forestry Research (CIFOR)
499. Kamila Janeckova; Masters; CEMS, Master of International Management
500. Hana Novotná; Masters; Charles University
501. Gerlinde B. De Deyn; Professor; Wageningen University
502. Marie Sarazova; Research Technician; Monasterium Laboratory, Münster, Germany
503. Vishal Thacker; Masters; protagonist
504. Jana Burivalova; Biology teacher; Zakladni Skola
505. Pamela McElwee; Professor; Rutgers University
506. Wolfgang Schwan; 3 years of University ; Concerned Human
507. Karishmaa Pai; Masters; WFC
508. Eric Swanson ; Citizen; Sierra Club
509. Caroline Farrow; Assistant Professor; University of Texas at Austin, Integrative Biology
510. Kimberly Neely; Research Scientist or Scholar; Mendel Biological Solutions
511. Felicity Wynne; PhD Candidate; Plymouth University
512. Jane Baldwin; PhD Candidate; Princeton University
513. David Edwards; Professor; University of Sheffield
514. Thomas Lovejoy; Professor; George Mason University
515. Daniela Miteva; Professor; Ohio State University
516. Vera Chouinard; Professor; McMaster University
517. Richard Waring; Professor Emeritus; Oregon State University
518. Walter Stephenson; Bachelor's in Environmental Engineering; George School
519. De. Rainer Bussmann; Professor Emeritus; Saving Knowledge
520. Spencer C.H. Barrett; Professor; University
521. Himadri Pakrasi ; Professor; Director, International Center for Energy, Environment and Sustainability, Washington University in St. Louis
522. James Mallet; Professor; Harvard University and UCL London
523. david zilberman; Professor; uc berkeley
524. Paul Berry; Professor; University of Michigan, Department of Ecology and Evolutionary Biology
525. Ricardo Rozzi; Professor; Director, Sub-Antarctic Biocultural Research Conservation Program, University of North Texas (USA) & Universidad de Magallanes (Chile)
526. Mark E. Olson ; Professor; Instituto de Biología, Universidad Nacional Autónoma de México
527. William H. Schlesinger; Professor Emeritus; Nicholas School of the Environment, Duke University
528. Jorge V. Crisci; Professor Emeritus; Universidad Nacional de La Plata, Argentina
529. William F. Laurance ; Professor; Distinguished Research Professor, Australian Laureate, and Prince Bernhard Chair in International Nature Conservation; Fellow of the Australian Academy of Science, James Cook University, Cairns, Australia
530. Rebecca; MD candidate; Harvard Medical School
531. Professor Christopher Leaver CBE,FRS,FRSE; Professor Emeritus; University of Oxford
532. Alan P. Covich; Professor; University of Georgia
533. Harold Mooney; Professor Emeritus; Stanford University
534. Richard Daley; Masters; EMD Consulting Group
535. Patrick Osborne; PhD; Former Executive Director, Harris World Ecology Center, UM-St. Louis
536. Dr. Christopher Davidson; PhD; Idaho Botanical Research Foundation
537. Nina Lundholm; Research Scientist or Scholar; University of Copenhagen

538. Thomas Struhsaker; Professor Emeritus; Duke University  
539. Claire Kremen; Professor; University of California Berkeley  
540. Toby Gardner ; Research Scientist or Scholar; Stockholm Environment Institute  
541. David W. Inouye; Professor Emeritus; University of Maryland  
542. David Creech; Professor, Professor Emeritus, Research Scientist or Scholar; SFA State University  
543. DAVID D ACKERLY; Professor; Univ California Berkeley  
544. Thomas J. Givnish; Professor; University of Wisconsin-Madison  
545. James C Aronson; Research Scientist or Scholar, PhD; Missouri Botanical Garden  
546. Warren R Muir; PhD; Granite Research Institute  
547. Kenneth Olsen; Professor; Washington University in St. Louis  
548. Bruce A. Stein; PhD; National Wildlife Federation  
549. Prof Patricia Vickers-Rich, AO; Professor; Swinburne University of Technology, Department of Chemistry and Biotechnology  
550. David White; Professor Emeritus; Loyola University  
551. Anne Ehrlich; Research Scientist or Scholar; Stanford University  
552. Brent D. Mishler; Professor; Integrative Biology, University of California, Berkeley  
553. Toby Bradshaw; Professor; Department of Biology, University of Washington  
554. Jane Phillips-Conroy; Professor Emeritus; Washington University  
555. Charles Perrings; Professor; Arizona State University  
556. May Berenbaum; Professor; University of Illinois at Urbana-Champaign  
557. Fariborz Zelli; Associate Professor; Lund University  
558. John W. Terborgh; Professor Emeritus; Duke University  
559. Joel Cracraft; Professor; American Museum of Natural History  
560. Stephen D. Hopper AC; Professor; Professor of Biodiversity, The University of Western Australia, and former CEO and Chief Scientist, Royal Botanic Gardens Kew  
561. DAVID MABBERLEY; Professor; Wadham College University of Oxford, UK  
562. phil devries; Professor; university of new orleans  
563. Andreia Figueiredo; PhD Student; University of Missouri - St. Louis  
564. Amy Kirkham; PhD Candidate; University of Alaska Fairbanks  
565. Daniel Janzen, Professor of Conservation Biology, University of Pennsylvania, member US National Academy of Sciences, Advisor to the Government of Costa Rica; Professor; University of Pennsylvania  
566. Juan Isaac Moreira Hernandez; PhD Candidate; University of Missouri-St. Louis  
567. Ib Friis; Professor Emeritus, member of the Royal Danish Academy of Sciences and Letters and the Royal Physiographic Society of Lund (Academy for the Natural Sciences, Medicine and Technology) ; Natural History Museum of Denmark  
568. RODRIGO MENDEZ; Research Scientist or Scholar; centro de investigacion cientifica y de educacion superior de ensenada, bc Mexico  
569. Michael Clegg; Professor Emeritus; University of California, Irvine; past foreign secretary US National Academy of Sciences  
570. Jeffrey D. Sachs; Professor; Columbia University  
571. Patricia G. Parker; Professor; University of Missouri - St. Louis  
572. Jeremy Bruhl; Professor; University of New England; Director, N.C.W. Beadle Herbarium  
573. Hugh Possingham; Professor; The University of Queensland  
574. Dr ; Professor, PhD; Mary T. K. Arroyo  
575. Cagan H Sekercioglu; Professor; University of Utah  
576. Michael MacCracken; Research Scientist or Scholar, Chief Scientist for Climate Change Programs; Climate Institute  
577. Calvin Qualset; Professor Emeritus; University of California  
578. Peter Crane FRS; Professor Emeritus; Oak Spring Garden Foundation  
579. Osvaldo Sala; Professor; Arizona State University  
580. Nicola Ripley; Masters; Betty Ford Alpine Gardens  
581. Steve O'Kane; Professor; University of Northern Iowa  
582. Christopher P. Dunn; Professor; Cornell Botanic Gardens  
583. Carl Safina; Professor; Stony Brook University  
584. Peter Ellis; Research Scientist or Scholar; The Nature Conservancy  
585. Peter Gleick Pacific Institute; PhD; Pacific Institute

586. Andrew Beattie; Professor Emeritus; Macquarie University  
587. James Bignaut; Professor; Stellenbosch University  
588. Kingsley Dixon; Professor; Curtin University, Western Australia  
589. Marleen Schafer; Masters; Pro Natura  
590. Loren Rieseberg; Professor; University of British Columbia  
591. Gerardo Ceballos; Professor, PhD; Universidad Nacional Autónoma de México  
592. J Julio Camarero; Research Scientist or Scholar; IPE-CSIC  
593. Leon Green; PhD Candidate; University of Gothenburg  
594. Ghilleen Prance; Professor Emeritus; Former Director, Royal Botanic Gardens, Kew  
595. Mats Lindeskog; Research Scientist or Scholar; Lund University, Sweden  
596. Debora Arlt; Research Scientist or Scholar; Swedish University of Agricultural Sciences  
597. Ulrika Palme; Research Scientist or Scholar; Chalmers University of Technology  
598. David Moreno Mateos; Research Scientist or Scholar; Basque Centre for Climate Change - BC3  
599. Christian Körner; Professor Emeritus; University of Basel, Switzerland  
600. Peter Endress; Professor Emeritus; Professor Emeritus, University of Zurich, Switzerland, Member of German Academy of Sciences Leopoldina  
601. Enrico Rizzuto; Professor; University of Naples - Italy  
602. Fang Yin; PhD Candidate; IAMO  
603. Birgitta Bremer; Professor Emeritus; The Royal Swedish Academy of Sciences  
604. Harith Farooq; PhD Candidate; University of Aveiro, Portugal, Gothenburg University, Sweden  
605. Sine Kragh Petersen; Masters; University of Copenhagen  
606. Juan D. Carrillo; Post-Doctoral Fellow; University of Gothenburg  
607. Tomáš Bujna; Lecturer; TC Business School  
608. Matthias Baumann; Post-Doctoral Fellow; Humboldt-Universität zu Berlin  
609. Alec Christie; PhD Candidate; University of Cambridge  
610. Calum Brown; Post-Doctoral Fellow; Karlsruhe Institute of Technology  
611. Rose Andrew; Research Scientist or Scholar; University of New England  
612. Paul Cannon; Research Scientist or Scholar; Royal Botanic Gardens, Kew  
613. Simone Gingrich; Research Scientist or Scholar; Institute of Social Ecology, Alpen-Adria Universität  
614. Meredith Blackwell; Professor Emeritus; Louisiana State University  
615. Elizabeth Bourne; Post-Doctoral Fellow; Berlin Centre for Genomics in Biodiversity Research  
616. Luke Dollar; Professor; Catawba College  
617. M.F. Wallis de Vries; Professor; De Vlinderstichting / Dutch Butterfly Conservation  
618. John W. Fitzpatrick; Professor; Executive Director, Cornell Lab of Ornithology, Cornell University  
619. R. Henrik Nilsson; Research Scientist or Scholar; University of Gothenburg  
620. Pieter Baas; Professor, Professor Emeritus; Naturalis Biodiversity Center and Leiden University  
621. Barbara M Thiers; PhD, Vice President; The New York Botanical Garden  
622. W. Hardy Eshbaugh; Professor Emeritus; Miami University  
623. Roy E Halling; Research Scientist or Scholar, PhD; New York Botanical Garden  
624. Dr Janet Simkin; Research Scientist or Scholar; British Lichen Society  
625. David Barton Bray; Professor; Florida International University  
626. William L. Crepet; Professor; Cornell University  
627. Peter White; Professor; University of North Carolina at Chapel Hill  
628. Neil Snow; Professor; Pittsburg State University  
629. Maria Isabel Loza Rivera; PhD Candidate; University of Missouri Saint Louis  
630. José L. Blanco; Post-Doctoral Fellow; INRA  
631. John J. Engel; Curator Emeritus; The Field Museum, Chicago, IL 60605  
632. Alfredo Romero Muñoz; PhD Candidate; Humboldt-Universität zu Berlin  
633. Johanne Pelletier; Post-Doctoral Fellow; Cornell University  
634. Fernando O. Zuloaga; Professor, Research Scientist or Scholar; Instituto de Botánica Darwinion, IBODA, Argentina  
635. Donna Ford-Werntz; PhD; West Virginia University  
636. David Boufford; Research Scientist or Scholar; Harvard University  
637. Elsa Redmond; Research Scientist or Scholar; American Museum of Natural History  
638. Charles S. Spencer; PhD, Curator; American Museum of Natural History

639. Juan Manuel Dupuy; Research Scientist or Scholar; Centro de Investigación Científica de Yucatán
640. Rosalind Gleave; Masters; Cambridge University
641. David Galbraith; Head of Science Department; Royal Botanical Gardens (Canada)
642. James S. Quinn; Professor; McMaster University
643. Stephen Blackmore; Professor; Royal Botanic Garden Edinburgh
644. Paul Smith; PhD; Botanic Gardens Conservation International
645. Jay Malcolm; Professor; University of Toronto
646. Dawn R Bazely; Professor; Department of Biology, Faculty of Science & former Director, Institute for Research & Innovation in Sustainability, York University, Toronto, Canada
647. Andrew Tilman; Post-Doctoral Fellow; University of Pennsylvania
648. Luca Di Corato; Assistant professor; University of Bari
649. Norman Ellstrand; Professor; University of California
650. Francesca Cavallaro; Post-Doctoral Fellow; London School of Hygiene & Tropical Medicine
651. Rodolfo Dirzo; Professor; Stanford University
652. Rauri Bowie; Professor; University of California, Berkeley
653. Richard S. Williams, Jr.; Research Scientist or Scholar, PhD; Senior Associate Scientist, Stefansson Arctic Institute; Senior Editor, Satellite Image Atlas of Glaciers of the World (11 vol.); Fellow, AAAS; Fellow, Geological Society of America; Vice Chairman Emeritus, Committee for Research and Exploration, National Geographic Society; Adjunct Senior Scientist, Woods Hole Research Center
654. Philip Martin; Post-Doctoral Fellow; University of Cambridge
655. LINDSAY MERRILL; Masters; University of Denver
656. Janet Franklin; Professor; University of California - Riverside
657. Claudio Delgadillo; Research Scientist or Scholar; Universidad Nacional Autónoma de México
658. Stephen Mahfood; Masters, Graduate of the Yale University Environmental Leadership Program; Board Member LAD Sustainable Forest Foundation ,Former Director of the Missouri Department of Natural Resources
659. Jonathan Losos; Professor; Washington University
660. Elena Lazos; Professor; Professor and Research Director, Instituto Investigaciones Sociales, Universidad Nacional Autónoma de México
661. Raghavendra Gadagkar; Professor; Indian Institute of Science, Bangalore,India
662. José M. Rey Benayas; Professor; University of Alcalá
663. Per Weslien; Research Scientist or Scholar, PhD; University of Gothenburg
664. Raúl de la Mata Pombo; Research Scientist or Scholar; IRTA
665. Manuel J. Macía; Professor; Universidad Autónoma de Madrid
666. Enrique Andivia; Post-Doctoral Fellow; Universidad de Alcalá
667. Joan Romanyà; Professor; Universitat de Barcelona
668. Arantza L. Luzuriaga; Research Scientist or Scholar; Universidad rey Juan carlos
669. Luis Cayuela; Professor; Universidad Rey Juan Carlos
670. Juan A. Blanco; Research Scientist or Scholar; Universidad Publica de Navarra
671. Javier Loidi; Professor; University of the Basque Country
672. Natalia González Benítez; Professor; University Rey Juan Carlos
673. Juan Luis Hidalgo Cardós; PhD; Universidad Rey Juan Carlos
674. Francisco Pugnaire; Professor; CSIC
675. Rosa M. Chefaoui; Post-Doctoral Fellow; Centre of Marine Science
676. José Ignacio Querejeta; Research Scientist or Scholar; Spanish National Research Council (CSIC)
677. Alberto Bernués; Research Scientist or Scholar; Agrifood Research and Tecnology Centre or Aragón, Spain
678. Federico; Masters; UNED
679. Juande D. Miranda; Research Scientist or Scholar; Repsol Technology Center
680. Carolina Puerta Piñero; Post-Doctoral Fellow; Andalusian Institute of Agronomic research and training (IFAPA)
681. Márcia Araújo; PhD Candidate; Faculty of Sciences, University of Porto, Portugal and Center for Functional Ecology, University of Coimbra, Portugal
682. Alexandra Rodríguez Pereiras; Post-Doctoral Fellow; Centre for Functional Ecology-University of Coimbra
683. Natàlia Corcoll Cornet; Post-Doctoral Fellow; University of Gothenburg

684. Julio Manuel; Professor; Universidad de Jaén (Spain)  
685. Daniel Crespo; PhD; University of Coimbra  
686. José A. CARREIRA; Professor; UNIVERSITY OF JAEN (SPAIN)  
687. Julio Javier Diez; Professor; University of Valladolid  
688. Stephan von Cramon-Taubadel; Professor; University of Göttingen  
689. Carolina Martínez Ruiz; Professor; University of Valladolid (Spain)  
690. Maria J.I. Briones; Professor; Universidad de Vigo  
691. Alberto Sacristán Velasco; PhD; Universidad de Valladolid  
692. Susana Rodríguez Echeverría; Research Scientist or Scholar; University of Coimbra  
693. Gema; Post-Doctoral Fellow; Post-doctoral researcher IMEDEA-CSIC  
694. Eloy Revilla; Research Scientist or Scholar; CSIC  
695. Manuel Ramón García Sánchez-Colomer; PhD; Centro de Estudios y Experimentación de Obras Públicas  
696. Ruben Heleno; Research Scientist or Scholar; Universidade de Coimbra  
697. Yolanda Melero; Post-Doctoral Fellow; CREA - UAB  
698. Manuel B. Morales; Professor; Dept. of Ecology, Autónoma University of Madrid  
699. María; PhD Candidate; University of Granada  
700. Helena Freitas; Professor; University of Coimbra  
701. Daniel Montesinos; Research Scientist or Scholar; University of Coimbra  
702. Xavier Lambin; Professor; University of Aberdeen  
703. Manuel Ruiz Pérez; Professor; Universidad Autónoma de Madrid  
704. Asier Rodríguez Larrinaga; Post-Doctoral Fellow; Misión Biológica de Galicia (CSIC)  
705. Neptalí Ramírez-Marcial; Research Scientist or Scholar; Senior Researcher, Department of biodiversity conservation, El Colegio de la Frontera Sur, Chiapas, Mexico  
706. Elisa Oteros-Rozas; Post-Doctoral Fellow; Universidad Pablo de Olavide  
707. Maricruz Jaramillo; PhD Candidate; University of Missouri - Saint Louis  
708. José A. Godoy López; Research Scientist or Scholar; Estación Biológica de Doñana, CSIC  
709. Gloria I Guzmán Casado; Professor; Universidad Pablo de Olavide  
710. Ines Sanchez-Donoso; Professor Emeritus, Post-Doctoral Fellow; Doñana Biological Station, Spanish National Research Council  
711. Cristina Zamora ; PhD; University of Valladolid  
712. Marta I. Sánchez; Research Scientist or Scholar; EBD-CSIC  
713. Antonio R. Castilla; Post-Doctoral Fellow; Centre for Applied Ecology "Prof. Baeta Neves"  
714. Jordi Martínez-Vilalta; Professor, Research Scientist or Scholar; CREA & Autonomous Univ. Barcelona  
715. Juan José Negro; Research Scientist or Scholar; Estación Biológica de Doñana-CSIC  
716. Ángel Blázquez Carrasco; PhD Candidate; Universidad de Córdoba  
717. Francisco Garcia Gonzalez; Research Scientist or Scholar; Estación Biológica de Doñana (CSIC, Spanish Research Council)  
718. Íñigo Granzow-de la Cerda; Professor; Centre for Ecological Research and Forestry Applications (CREAF) and Autonomous University of Barcelona  
719. Lucía del Moral-Espín; Research Scientist or Scholar; Universidad Pablo de Olavide  
720. Andrés J. Cortés; Research Scientist or Scholar; University of Gothenburg  
721. Belén Floriano; Professor; Pablo de Olavide University  
722. Marco Visser; Post-Doctoral Fellow; Princeton University  
723. Daniel M. Griffith; Professor; Universidad Técnica Particular de Loja, Loja, Ecuador  
724. Cristina Aponte; Research Scientist or Scholar; The University of Melbourne  
725. Richard C. Brusca; Professor Emeritus, Research Scientist or Scholar, PhD; Executive Director Emeritus, Arizona-Sonora Desert Museum, Tucson, Arizona  
726. Javier Bustamante; Research Scientist or Scholar; CSIC  
727. H. Jesse Dubin; PhD, Principal Plant Pathologist; CIMMYT [Retired]  
728. Alicia Florit; Jefa del Servicio de Planificación en el Medio Natural de la CMAIP; Consejería de Medio Ambiente, Agricultura y Pesca (CMAIB) del Govern de les Illes Balears  
729. Antonia Maria; Research Scientist or Scholar; Palma municipality  
730. Carlos Ibáñez; Professor; Estación Biológica de Doñana (CSIC)  
731. Juan Carlos Moreno Saiz; Professor; Universidad Autónoma de Madrid  
732. Sara Sánchez Moreno; Research Scientist or Scholar; National Institute for Agricultural and Food Research and Technology



733. Marta Rueda; Post-Doctoral Fellow; EBD-CSIC  
734. Fátima Alves; Professor; CFE, Science for People and the Planet, University of Coimbra; Universidade Aberta, Portugal  
735. Lucía DeSoto; Post-Doctoral Fellow; Centre for Functional Ecology, University of Coimbra  
736. Peter Horvath; PhD Candidate; University of Oslo  
737. Christian Levers; Post-Doctoral Fellow; Humboldt-Universität zu Berlin  
738. Maria Jesus Beltran; Adjunct professor; Pablo de Olavide University  
739. Belén Fernández Santos; Research Scientist or Scholar; Universidad de Salamanca  
740. Rubén Torices; Post-Doctoral Fellow; Estación Experimental de Zonas Áridas, CSIC, Spain  
741. Mireia Llorente; Post-Doctoral Fellow; Universidad de Extremadura  
742. Enrique de la Montaña; Professor; Universidad Laica Eloy Alfaro de Manabí (Ecuador)  
743. Gerardo Moreno; Professor; Universidad de Extremadura  
744. Laetitia Lenel; PhD Candidate; Humboldt-University Berlin  
745. David Suzuki; Professor Emeritus, PhD; Professor Emeritus UBC  
746. Eric W Crawford; Professor; Michigan State University  
747. Miguel A. Rodríguez-Gironés; Research Scientist or Scholar; Estación Experimental de Zonas Áridas (Spanish National Research Council)  
748. Tommaso Anfodillo; Professor; Forest ecology group, Dept. TESAF, University of Padova - ITALY  
749. Tim Beringer; Research Scientist or Scholar; Mercator Research Institute on Global Commons and Climate Change  
750. Carmen Marcati; Professor; UNESP  
751. marianne gehring; Masters; None  
752. Gregório Ceccantini; Professor, Research Scientist or Scholar; University of São Paulo  
753. Giuliano Maselli Locosselli; Post-Doctoral Fellow; University of São Paulo  
754. Krottenthaler; PhD Candidate; University of Passau  
755. Professor Sir Alan Mark, FRSNZ; Professor Emeritus; University of Otago  
756. Exequiel Ezcurra; Professor; University of California Riverside  
757. Adriano Afonso Spielmann; Professor; Universidade Federal de Mato Grosso do Sul  
758. Miklós Bán; PhD; University of Debrecen  
759. Mauricio Diazgranados; Research Scientist or Scholar; Royal Botanic Gardens, Kew  
760. Dr. Dieter Anhuf; Professor; Professor in PUniversity of Passau  
761. L. Javier Palomo; Professor; University of Málaga (Spain), General Secretary of the Spanish Society of Mammalogist (SECEM)  
762. Verena Seufert; Post-Doctoral Fellow; Institute of Meteorology and Climate Research (IMK-IFU), Karlsruhe Institute of Technology (KIT)  
763. Ben Phalan; Research Scientist or Scholar; Oregon State University  
764. Jorge Curiel Yuste; Professor; Basque Center for Climate Change  
765. Günther Seufert; senior scientist, retired; EC -Joint Research Centre  
766. Jenny Nelson FRS; Professor; Imperial College London  
767. Astrid Helena Huechacona Ruiz; PhD Candidate; Centro de Investigación Científica de Yucatán  
768. Patrick Gonzalez; Associate Adjunct Professor; University of California, Berkeley  
769. Ádám Kőrösi; Post-Doctoral Fellow; MTA-ELTE-MTM Ecology Research Group  
770. Werner Arber; Professor Emeritus; Biozentrum, University of Basel, Switzerland  
771. Dr. Juan F. Masello; Research Scientist or Scholar; University of Giessen  
772. Maria do Céu Madureira; Research Scientist or Scholar; Center of Functional Ecology, University of Coimbra  
773. Nuno Capela; PhD Candidate; University of Coimbra, Portugal  
774. Sérgio Timóteo; Research Scientist or Scholar; Centre for Functional Ecology  
775. Nicholas Berkley; PhD Candidate; University of Plymouth  
776. Ana; Masters; Universidade de Coimbra  
777. David Douglas; Research Scientist or Scholar; RSPB  
778. Rui Ribeiro; Professor; University of Coimbra, Portugal  
779. marta raquel cardoso lopes correia; PhD student; CFE University of Coimbra, Portugal  
780. Alexander Lee; Post-Doctoral Fellow; University of Jyväskylä  
781. Deborah Leigh; Post-Doctoral Fellow; Queen's University  
782. Ellen Fry; Post-Doctoral Fellow; University of Manchester

783. Dr. Vanessa A Richardson; Research Scientist or Scholar, PhD; University of East Anglia
784. Elizabete Marchante; Post-Doctoral Fellow; Centre for Functional Ecology, University of Coimbra
785. Sabrina Carvalho; PhD; CoolFarm and Center for functional Ecology, university of coimbra
786. Susanne Lachmuth; Research Scientist or Scholar, PhD; Martin Luther University Halle Wittenberg
787. Carmen Romeralo Tapia; Post-Doctoral Fellow; Sustainable Forest Management Research Institute, University of Valladolid-INIA
788. Joana Zózimo; Research Scientist or Scholar; SOCIUS-CSG
789. Derek Fawell; Research Scientist or Scholar, Ex-professional energy consultant; Member of the public
790. Alan Cottey; Research Scientist or Scholar; University of East Anglia
791. Paul Marchant; Research Scientist or Scholar; Leeds Beckett University
792. Sven De Causmaecker; Post-Doctoral Fellow; `Imperial College London
793. Silke Schmidt; Post-Doctoral Fellow; DLR
794. Matteo Rizzuto; PhD; Memorial University of Newfoundland
795. Sid Gould; manager; retired
796. Margaret Massam B.Sc; PhD Candidate; Lancaster University