

MAKE OUR PLANET GREAT AGAIN



THE LAUREATES



ANR



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EARTH SYSTEM SCIENCE

BALAJI Venkatrami
BALLANTYNE Ashley
BOUCHARD Frédéric
BOUCHAREL Julien
CAPRON Emilie
CLARK James
DERRY Louis
DEWAR William
ERVENS Barbara
FEDOROV Alexey
FORTE Alessandro
GUEMAS Virginie
KIKO Rainer
LUCAS-PICHER Philippe
TANAKA Katsumasa
TEIXIDO Nuria
VALLA Pierre
WANG Chien

EARTH SYSTEM SCIENCE

CADIAU Amandine
CANTRELL Christopher
COJOCARU Ludmila
ESPINOZA Jhan Carlo
GIANNINI Alessandra
HOVEYDA Amir
LAUVAUX Thomas
LEE Carol Eunmi
PALOMO Ignacio
PARMESAN Camille
RENARD Delphine
RIDDE Valery
SANDERSON Benjamin
SUBRAMANIAN Ramachandran
VADEZ Vincent
VINCENT Emmanuel

EARTH SYSTEM SCIENCE

CARRIER Marion
CHRISTOFORIDIS Konstantinos
GIAMBASTIANI Giuliano
HAMELIN Lorie
RIVADA WHEELAGHAN Orestes
SCHULZ Philip
TURNHEIM Bruno

Earth System Science

BALAJI Venkatramani

Home institution : USA, Princeton

Project : HRMES - High-resolution Modeling of the Earth System

Host institution : Laboratoire des sciences du climat et de l'environnement, Saclay

BALLANTYNE Ashley

Home institution : USA, University of Montana

Project : POMELO - Testing processes in Earth System Models
with global satellite and atmospheric observations

Host institution : Laboratoire des Sciences du Climat et de l'Environnement, Saclay

BOUCHARD Frédéric

Home institution : Canada, Institut national de la recherche scientifique du Québec

Project : PEGS - PERmafrost and Greenhouse gas dynamics in Siberia

Host institution : Laboratoire Géosciences Paris-Sud (GEOPS), Saclay

BOUCHAREL Julien

Home institution : USA, University of Hawaii

Project : TROCODYN - Tropical Cyclone activity and upper-ocean Dynamics

Host institution : Laboratoire d'Etudes en Géophysique et Océanographie Spatiales,
Toulouse

CAPRON Emilie

Home institution : Denmark, University of Copenhagen

Project : HOTCLIM - CHaracterisation & dynamics Of pasT warm CLIMates

Host institution : Institut des Géosciences de l'Environnement, Grenoble

CLARK James

Home institution : USA, Duke University

Project : FORBIC - The capacity to explain and forecast change
in ecological communities with changing climate

Host institution : Laboratoire des écosystèmes et des sociétés en montagne, Grenoble

DERRY Louis

Home institution : USA, Cornell University

Project : CZ-TOP - Water, reactions and isotopes in the Critical Zone

Host institution : Institut de Physique du Globe, Paris

DEWAR William

Home institution : USA, Florida State University

Project : CONTACTS - Parameterize energy dissipation

in the ocean surface/bottom boundary layers for climate simulations

Host institution : Institut des Géosciences de l'Environnement, Grenoble

ERVENS Barbara

Home institution : USA, Cooperative Institute for Environmental Sciences (CIRES, University of Colorado) and National Oceanic and Atmospheric Administration (NOAA)

Project : MOBIDIC - Modeling biologically-driven processes in clouds

Host institution : Institut de Chimie, Clermont Ferrand

FEDOROV Alexey

Home institution : USA, Yale University

Project : ARCHANGE - The impact of Arctic sea ice decline on ocean circulation, decadal variability and climate change

Host institution : Laboratoire d'océanographie et du climat : expérimentations et approches numériques, Paris

FORTE Alessandro

Home institution : USA, University of Florida

Project : Geodynamic perturbations of climate signals

Host institution : Equipe de géomagnétisme, Institut de Physique du Globe de Paris

GUEMAS Virginie

Home institution : Spain, Centro Nacional de supercomputacion

Project : ASET - Atmosphere - Sea ice Exchanges and Teleconnections

Host institution : Centre National de Recherches Météorologiques, Toulouse

KIKO Rainer

Home institution : Germany, GEOMAR Helmholtz Centre for Ocean Research Kiel

Project : Tropical Atlantic Deoxygenation

Host institution : Laboratoire d'Océanographie, Villefranche sur Mer

LUCAS-PICHER Philippe

Home institution : Canada, Université du Québec

Project : KM-IMPACTS - Analysis of the impacts of climate change using kilometer-scale regional climate models over Europe

Host institution : Centre national de recherches météorologiques, Toulouse

TANAKA Katsumasa

Home institution : Japan, National Institute for Environmental Studies

Project : Achieving the Paris Agreement Temperature Targets

Host institution : Laboratoire des Sciences du Climat et de l'Environnement, Gif-sur-Yvette

TEIXIDO Nuria

Home institution : USA, Hopkins Marine Station of Stanford University

Project : 4Oceans – Predicting future oceans under climate change

Host institution : Laboratoire d’Océanographie, Villefranche-sur-Mer

VALLA Pierre

Home institution : Switzerland, Universität Bern

Project : MAGICLIM - Earth Surface dynamics: mountain glaciers
& landscape evolution under a changing climate

Host institution : Institut des Sciences de la Terre, Grenoble

WANG Chien

Home institution : USA, Massachusetts Institute of Technology

Project : EUROACE - Enhancing the Understanding of the Roles
of Aerosols in Climate and Environment

Host institution : Laboratoire d’aérodynamique, Toulouse

Climate change

CADIAU Amandine

Home institution : Saudi Arabia, King Abdullah University of Science and Technology

Project : APPAT - Discovery of new fluorinated MOFs for toxic gas capture, conversion/degradation into valuable fuel

Host institution : Institut Charles Gerhardt, Montpellier

CANTRELL Christopher

Home institution : USA, University Colorado Boulder

Project : ACROSS - Atmospheric Chemistry Of the Suburban forest

Host institution : Laboratoire Interuniversitaire des Systèmes Atmosphériques, Créteil

COJOCARU Ludmila

Home institution : Germany, Institute of Sustainable Systems Engineering

Project : ECS – Hybrid systems combining perovskite solar cells and supercapacitors based on coconuts activated carbon for Energy Conversion - Storage devices

Host institution : Institut des Sciences Moléculaires, Université de Bordeaux

ESPINOZA Jhan Carlo

Home institution : Peru, Instituto Geofísico del Perú

Project : AMANECER - Quantify the Amazon-Andes climate connectivity and impacts of climate change in Amazon rainforest

Host institution : Institut des Géosciences de l'Environnement, Grenoble

GIANNINI Alessandra

Home institution : USA, Columbia University

Project : PRODUCT - Processes of climate change in the tropics

Host institution : Laboratoire de météorologie dynamique, Paris

HOVEYDA Amir

Home institution : USA, Boston College

Project : Multi-Catalyst Systems for Energy-Efficient Chemical Synthesis

Host institution : Institut de Science et d'Ingénierie Supramoléculaire, Strasbourg

LAUVAUX Thomas

Home institution : USA, Pennsylvania State University

Project : CIUDAD - Quantification of urban greenhouse gas emissions

Host institution : Laboratoire des sciences du climat et de l'environnement, Saclay

LEE Carol Eunmi

Home institution : USA, University of Wisconsin, Madison

Project : Rapid Evolutionary Responses to Climate Change

Host institution : Marine Biodiversity Exploitation and Conservation (MARBEC),
Université de Montpellier

PALOMO Ignacio

Home institution : Spain, Basque Centre for Climate Change

Project : Pathways for transformation in the Alps

Host institution : Laboratoire d'Ecologie Alpine, CNRS, Grenoble

PARMESAN Camille

Home institution : USA, University of Texas – UK, University of Plymouth

Project : CCISS - Climate Change Impacts on SpecieS

Host institution : Station d'écologie théorique et expérimentale, Moulis

RENARD Delphine

Home institution : USA, University of California

Project : ASSET - AgrobiodiverSity for a food-Secure planET

Host institution : Centre d'écologie fonctionnelle et évolutive, Montpellier

RIDDE Valery

Home institution : Canada, Université de Montréal

Project : CLIMHB - Climate Change, Migrations and Health Systems Resilience
in Haïti and Bangladesh

Host institution : Centre population et développement, Paris

SANDERSON Benjamin

Home institution : USA, National Center for Atmospheric Research

Project : RISCCi - Risks and Uncertainties under Climate Change

Host institution : Laboratoire Climat, Environnement, Couplage et Incertitudes, Toulouse

SUBRAMANIAN RAMACHANDRAN

Home institution : USA, Carnegie Mellon University

Project : MAQGA - Make Air Quality Great Again

Host institution : Observatoires des Sciences de l'Univers- Enveloppes Fluides de la Ville à
l'Exobiologie (OSU-EFLUVE) / Laboratoire Interuniversitaire des Systèmes Atmosphériques,
Créteil

VADEZ Vincent

Home institution: India, International Crop Research Institute for the Semi-Arid Tropics

Project : ICARUS - Improve Crops in Arid Regions and future climates

Host institution : Laboratoire Diversité - Adaptation – Développement, Montpellier

VINCENT Emmanuel

Home institution : UK, Factama Ltd

Project : Web platforms influence on climate information

Host institution : Medialab, Paris

Energy transition

CARRIER Marion

Home institution : UK, Aston University

Project : PYROKINE - Fast pyrolysis of waste biomass: Dual kinetics

Host institution : Centre de recherche en génie des procédés des solides divisés, de l'énergie et de l'environnement, Albi

CHRISTOFORIDIS Konstantinos

Home institution : Greece, Democritus University of Thrace

Project : SUNCO₂H₂EN - Multifunctional materials for a) combined CO₂ capture and conversion and b) H₂ production from H₂O

Host institution : Institut de Chimie et Procédés pour l'Énergie, l'Environnement et la Santé, Strasbourg

GIAMBASTIANI Giuliano

Home institution : Italy, Institute of Chemistry of Organometallic Compounds of CNR

Project : TRAINER - Catalysts for Transition to Renewable Energy Future

Host institution : Institut de Chimie et Procédés pour l'Énergie, l'Environnement et la Santé, Strasbourg

HAMELIN Lorie

Home institution : Poland, Institute of Soil Science and Plant Cultivation

Project : CambioSCOP - Carbon management towards low fossil carbon use

Host institution : Laboratoire d'Ingénierie des Systèmes Biologiques et des Procédés, Toulouse

RIVADA WHEELAGHAN Orestes

Home institution : Japan, Okinawa Institute of Science and Technology Graduate University

Project : CAMELEON - CO₂ conversion to C₂ products; Homogeneous Electrochemical and photochemical catalysis ; solar fuels

Host institution : Laboratoire d'Electrochimie Moléculaire, Paris

SCHULZ Philip

Home institution : USA, National Renewable Energy Laboratory

Project : InHyMat-PV - Interfaces and Hybrid Materials for Photovoltaics

Host institution : Institut de Recherche et Développement sur l'Énergie Photovoltaïque, Paris

TURNHEIM Bruno

Home institution : UK, Manchester Institute of Innovation Research

Project : Governing destabilisation pathways and phase-out

Host institution : Laboratoire Interdisciplinaire Sciences Innovations Sociétés (LISIS), Marne la Vallée