

Long Term Projects

| CATEGORY | SUBJECT | ISLANDS | ORGANIZATION(S): LEAD SCIENTIST |
|---------------------------|--|------------------|--|
| Coral Reef Ecosystems | Deep Reef Observation Project (DROP) (ARMS: Autonomous Reef Monitoring Structures) | CUR | Smithsonian: Carole Baldwin |
| Coral Reef Ecosystems | St. Maarten's Coral Restoration Project | SXM | NFSXM: Tazio Bervoets, Melanie Meijer zu Schlochtern CRF |
| Coral Reef Ecosystems | Development of restoration methods for threatened Caribbean coral species | BON, CUR, SAB | CRF Bonaire: Augusto Montbrun, Francesca Viridis SECORE Project CARMABI: Mark Vermeij UvA: Valerie Chamberland |
| Coral Reef Ecosystems | Developing a plan to manage the waters around Curaçao sustainably, profitably, and enjoyably for this and future generations - including mesophotic reef dropcam project | CUR | Waait Institute (Blue Halo Curaçao): Kathryn Mengerink |
| Database | Dutch Caribbean Species Register: Taxonomic knowledge system Dutch Caribbean (http://www.dutchcaribbeanspecies.org/) | All | Naturalis: Sander Pieterse, Hannco Bakker, Bert Hoeksema |
| Interstitial biodiversity | Moleculair biodiversity analysis of marine communities by metabarcoding | EUX | Naturalis: Arjen speksnijder ANEMOON: Niels Schrieken |
| Invasive species | Global Register of Introduced and Invasive Species GRIIS | All | IUCN Invasive Species Specialist Group ISSG: Shyama Pagad |
| Invasive species | CIRCULATIONS (Connectivities between Islands Alters Traveling Invasive Seagrasses) | BON | Development and Knowledge Sociology, ZMT: Rapti Siriwardane Mangrove Ecology, ZMT: Lucy Gillis Algae and Seagrass Ecology, ZMT: Inés González Viana |
| Marine ecosystems | Taxonomy and biodiversity in Lac Bay | BON | STINAPA Sabine Engel, Caren Eckrich Ecosub: Godfried van Moorsel CEAB: Daniel Martin |
| Marine ecosystems | Marine species discoveries in the Dutch Caribbean | All | Naturalis: Bert Hoeksema CNSI CARMABI |

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| Molluscs | Population dynamics and role in the food chain of the Queen Conch <i>Lobatus gigas</i> in the Dutch Caribbean Territories | EUX, SAB, SXM | WUR: Aad Smaal, Leo Nagelkerke, Martin de Graaf Erik Boman (PhD candidate) SCF (SBMU): Ayumi Kuramae Izioka CNSI |
| Public Health | DNA waterscan: Monitoring disease vectors in the Caribbean (mosquitoes and midges) | CUR EUX | Naturalis: Klaas-Douwe B. Dijkstra ECPHF: Teresa Leslie CBHRI: Delia-Maria Goilo (NWO DUCAMID project) |
| Sponges | Bioersion of reefs by coral-excavating sponges | BON,CUR, SAB, EUX | NIOZ: Fleur van Duyl WUR: Erik Meesters, Didier de Bakker (PhD student) |
| Sponges | The role of sponges as key ecosystem engineers of coral reef ecosystems Pumping iron: can iron availability fuel the sponge loop and affect coral reef community structure? (Misha Streekstra) | CUR | Uva: Jasper de Goeij UvA: Benjamin Mueller CARMABI: Mark Vermeij PhD students: WUR: Misha Streekstra UvA: Sarah Campana*, Meggie Hudspich*, Niklas Korner* * Part of the ERC project "SPONGE ENGINE — Fast and efficient sponge engines drive and modulate the food web of reef ecosystems" |
| Terrestrial biodiversity | Baseline assessments and DNA barcoding of biodiversity of St. Eustatius | EUX | Naturalis: Michael Stech, Berry van der Hoorn, Jeremy Miller STENAPA, CNSI |
| NWO Projects in the Dutch Caribbean | | | |
| Bioproducts | Stand-alone production of algal products for food, feed, chemicals and fuels | BON | WUR: R.H. Wijffels CIEE: Rita Peachey |

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| Coral Reef Ecosystems | Caribbean coral reef ecosystems: interactions of anthropogenic ocean acidification and eutrophication with bioerosion by coral excavating sponges - Bioerosion and climate change | BON, SAB, EUX | NIOZ: Fleur van Duyl, Steven van Heuzen (PostDoc), Alice Webb (PhD student) STENAPA CNSI |
| Coral restoration | Artificial Reefs On Saba and Statia (AROSSTA) | SAB EUX | VHL: Alwin Hylkema, Marlous Heemstra WUR: Dolfi Debrot STENAPA: Jessica Berkel, Erik Houtepen SCF: Kai Wulf, Aymi Kuramae Izioka CNSI: Johan Stapel Students: Marijn van der Laan, Daniel Heesink, Marit Pistor, Callum Reid, Jan Koschorrek |
| Environmental | Caribbean island biogeography meets the anthropocene | AUA, BON, CUR, EUX, SXM | VU: Jacintha Ellers, Matt Helmus, Wendy Jesse (PhD Student), Jocelyn Behm (Postdoc) CNSI |
| Environmental psychology | Confronting Caribbean Challenges: Hybrid Identities and Governance in Small-scale Island Jurisdictions - Behavioral differences between/within the BES islands when it comes to nature conservation and cultural heritage. | BON, SAB, EUX | KITLV, Leiden University: Gert Oostindie (Project director) KITLV, Leiden University: Stacey Mac Donald (PhD student) |
| Geosciences | Stability of Caribbean coastal ecosystems under future extreme sea level changes (SCENES) - The effects of climate change on calcifying algae | BON, EUX, SXM | UU: Henk Dijkstra, NIOZ: Peter Herman, Rebecca James (PhD student) TU Delft: Julie Pietrzak STENAPA CNSI |
| Geomorphological | 4D crust-mantle modelling of the eastern Caribbean region: toward coupling deep driving processes to surface evolution - Reconstructing past climate change | EUX | UU: Wim Spakman NIOZ: Lennart de Nooijer Alfred Wegener Institute Germany CNSI |

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| Invasive species | Exotic plant species in the Caribbean: foreign foes or alien allies? (1) Socio-economic impacts of invasive plant species (2) Ecological impacts of invasive plant species | BON, SAB, EUX | (1) UU : Jetske Vaas (PhD student), Peter Driessen, Frank van Laerhoven and Mendel Giezen (2) UU : Elizabeth Haber (PhD student), Martin Wassen, Max Rietkerk, Maarten Eppinga. CNSI |
| Reptiles | Ecology and conservation of green and hawksbill turtles in the Dutch Caribbean | AUA, BON, CUR, SAB, EUX, SXM | RuG : Per Palsbøll, Jurjan van der Zee (PhD student) RU : Marjolijn Christianen, WUR : Lisa Becking STCB : Mabel Nava CARMABI STENAPA CNSI |
| Tourism and sustainable development | Vulnerability is dynamic: Enhancing adaptive governance to climate change for Caribbean tourism through interactive modelling | CUR | WUR : Jillian Student, Machiel Lamers UOC : Filomeno A. Marchena |
| BO-projects in the Dutch Caribbean (Min EZ) | | | |
| Coral Reef Ecosystems | BO-43-021.04-003 –Inventory corals Includes monitoring and research of the longest coral reef time-series in the world (since 1973) | BON, CUR | WUR : Erik Meesters |
| DCBD | BO-43-021.04-001 - Expansion knowledge system Dutch Caribbean | AUA, BON, CUR, SAB, EUX, SXM | WUR (Alterra) : Peter Verweij |
| Environmental Hazards | BO-43-021.04-008 - Sunscreen and risks for coral reefs | BON | WUR : Diana Slijkerman |
| Fisheries | Fish stocks and fisheries Caribbean Netherlands | EUX, SAB, BON | WUR : Dolfi Debrot CNSI : Kimani Kitson-Walters PiskaBon, STINAPA SCF : Kai Wulf, Ayumi Kuramae |

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| Marine biodiversity | BO-43-021.04-002 – Saba Bank – Marine biodiversity | SAB | WUR: Erik Meesters (benthic communities), Dolfi Debrot, Thomas Brunel, Leo Nagelkerke (fish stocks) |
| Marine mammals & sharks | BO-43-021.04-005 – Management plan marine mammal and shark sanctuary Yarari | SAB, EUX | WUR: Dolfi Debrot, Dick de Haan, Meike Scheidat, Ayumi Kuramae Izioka SCF (SBMU): Ayumi Kuramae Izioka |
| Marine mammals | BO-43-021.04-009 Acoustic monitoring of cetacean distribution | SAB | WUR: Dolfi Debrot, Dick de Haan, Hans verdaat SCF: Kai Wulf, Ayumi Kuramae |
| Marine mammals | BO-43-021.04-007 –Marine mammals in the Dutch Caribbean | BON, SAB, | WUR: Dolfi Debrot, Dick de Haan, Meike Scheidat |
| World Heritage nomination | BO-43-021.04-004 – World Heritage nomination Bonaire National Marine Park | BON | WUR: Dolfi Debrot Wolfs Co.: Esther Wolfs UNESCO: Josephine Langley DRO: Frank v Slobbe CARMABI: Mark Vermeij, John de Freitas Curacao Footprint Foundation: Leon Pors |
| “Nature Funding” Projects in the Dutch Caribbean (Min EZ) | | | |
| Coastal ecosystems (Lac Bay: Mangroves and seagrass beds) | Ecological restoration Lac Bay and South coast, Bonaire | BON | STINAPA: Sabine Engel WUR: Klaas Metselaar STCB: Mabel Nava DRO: Frank van Slobbe |
| Sustainable Agriculture | The sustainable agriculture and rural development program (POP Bonaire) | BON | Bonaire Agri & Aqua Business BV: Sherwin Pourier Wayaká Advies BV: Jan Jaap van Almenkerk DRO: Frank van Slobbe |
| Invasive species | Feral Pig Control | BON | Echo: Julianka Clarenda DRO: Frank van Slobbe |
| Reforestation | Reforestation Project | BON | Echo: Lauren Schmaltz, Quirijn Coolen DRO: Frank van Slobbe |

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| Invasive species | Goat eradication and control in Washington Slagbaai National Park | BON | STINAPA DRO: Frank van Slobbe |
| Coral ecosystems | Coral Restoration | BON | CRF Bonaire: Augusto Montbrun DRO: Frank van Slobbe |
| World Heritage nomination | World Heritage Nomination Bonaire Marine Park and/or other interconnected sites | BON | Wolfs Company: Esther Wolfs, Boris van Zanten, Amilcar Guzman, Viviana Lujan DRO: Frank van Slobbe |
| Terrestrial ecosystems | Combating Erosion and Nature Restoration on Bonaire | BON | Bonaire Agri & Aqua Business BV: Sherwin Pourier Wayaká Advies BV: Jan Jaap van Almenkerk DRO: Frank van Slobbe |
| Terrestrial ecosystems | Cave and karst nature reserve | BON | DRO: Frank van Slobbe CARIBSS: Fernando Simal |
| Nature communication | Campaign environment and nature on Bonaire | BON | DRO: Frank van Slobbe, Peter Montanus |
| Agriculture | Horticultural Project | SAB | Government of Saba: Randall Johnson |
| Recreation | Hiking trails | SAB | Government of Saba: Robert Zagers |
| Pollution | Tent Reef Protection | SAB | Government of Saba: Robert Zagers |
| Invasive species | Goat buy-back program | SAB | Government of Saba: Randall Johnson |
| | Yacht mooring project | SAB | Government of Saba SCF: Kai Wulf |
| | Saba national park | SAB | Government of Saba SCF: Kai Wulf SABARC: Ryan Espersen |
| | Crispeen trail project | SAB | Government of Saba: Robert Zagers SCF: Kai Wulf |

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| Community outreach | Nature Awareness project | EUX | Government of St Eustatius STENAPA: Clarisse Buma CNSI: Johan Stapel, Hannah Madden |
| Nature management | Strengthening management of nature | EUX | Government of St Eustatius , STENAPA: Clarisse Buma |
| Invasive species | Rodent assessment and control | EUX | Government of St Eustatius CNSI: Johan Stapel, Hannah Madden ECPHF: Teresa Leslie |
| Coral ecosystems | Coral restoration | EUX | Government of St Eustatius STENAPA: Jessica Berkel, CNSI: Johan Stapel |
| Erosion | Erosion control | EUX | Government of St Eustatius CNSI: Johan Stapel |
| EU-BEST funded Projects in the Dutch Caribbean | | | |
| Marine ecosystems | Marine Park Aruba | AUA | Directie Natuur en Milieu: Gisbert Boekhoudt TNO: Kris Kats |
| Coral Reef Ecosystems | Pop-Up Nursery and Coral Restoration (Oil Slick Leap) | BON | CRF: Francesca Virdis |
| Coral Reef Ecosystems | Restoration Ecosystem Services and Coral Reef Quality (Project RESCO) | SAB, EUX | WUR: Erik Meesters SCF (SBMU): Ayumi Kuramae Izioka STENAPA: Clarisse Buma Turks & Caicos Reef Fund |
| Conservation | Watershed & Biodiversity Conservation of Roi Sangu valley | BON | Echo: Lauren Schmaltz, Quirijn Coolen |
| Terrestrial ecosystems | North Saba National Park, Phase I | SAB | Government of Saba: Menno van der Velde |
| Terrestrial habitat restoration | Restoration of Key Biodiversity Areas of St. Maarten | SXM | EPIC (Project lead): Kippy Gilders Subcontractors: Les Fruits des Mer: Mark Yokoyama (reptile, amphibian, and invertebrate assessment) The Leon Levy Native Plant Preserve, Bahamas: Ethan Freid (plant assessment) |