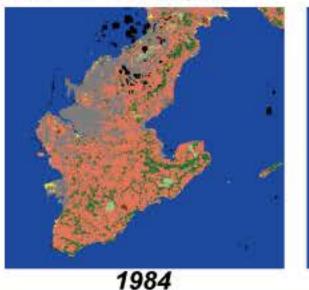
OKEON Chura-mori Project: a new environmental monitoring project in Okinawa, Japan

Geographic Information Systems

Payal Shah (OIST) and Kenneth Dudley (OIST) have been reconstructing land-use and land-cover change over the last 40 years in Okinawa with over 27 data layers.



Field sampling system



2015

OKEON

Observation Network

OKinawa Environmental

美ら森プロジェクト

Chura-mori Project - "Chura-mori" means "Beautiful forest" in Okinawan dialect

OKEON is a network to monitor the terrestrial environment of Okinawa, involving researchers at OIST, collaborators at various institutions, high schools and museums across Okinawa, and the local community. We set the two major goals below throuth this projet.

- +To establish an observation network to measure, monitor, and understand the terrestrial environment of Okinawa.
- +To develop a sustainable network for environmental education in Okinawan society under the collaboration between scientists and the people of Okinawa.

Genomics pipeline



Masashi Yoshimura "YOSHI"

(myoshimura@ant-database.org),

Takuma Yoshida, Masako Ogasawara

& Evan Economo

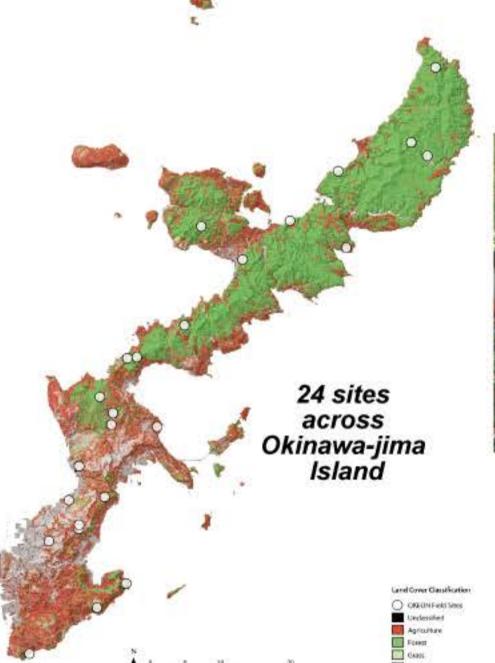
Okinawa Institute of Science and Technology

Graduate University (OIST), Japan

Led by the Mikheyev unit at OIST, we are developing new high-throughput technologies for generating rapid sequence

To conduct biodiversity surveys in various environments of Okinawa, we have established 24 sites across the island. We are focusing on Arthropods as the first target, which are known as indicators and drivers of many aspects of ecosystem functioning.

The insect sampling has been purposed as training courses for the staffs, which are hired from local community.





The bottles were collected every two weeks and sorted into order rank in real time. OKEON has accumulated more than 4.8 million insects since 2015.

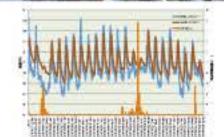
Sharing field

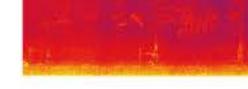




Insect sampling (SLAM trap) Weather station







Acoustic device

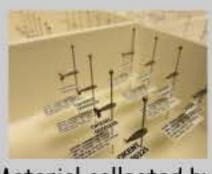




Video device

Examples of other collaborations

OKEON provides guidances and supports for teachers on the ant research projects.



Material collected by students using Time Unit Sampling method is shared with OKEON project.



High School Network



Four Okinawan high schools have conducted their own ant research projects.



OKEON booth in the exhibition of the Okinawa Prefectural Museum were watched by c.a. 12,000 people.



OKEON provides material and data from comprehensive sampling system.



Development of research based on a new collaboration.

Research collaborations





Provision of a

ecotuourizm

new content for

Sharing the

reference

colleciton



specits control

Acknowledgments

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