

# 研究資料寄存所簡介

## 1/3

2021-11-16

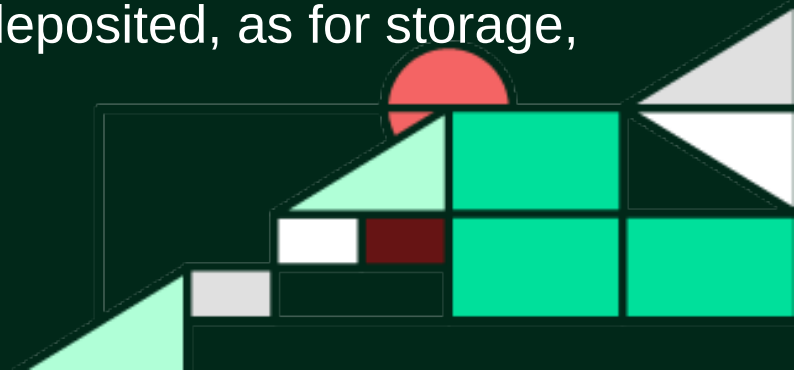
技術研究小組 @ 行政院農業委員會水土保持局

莊庭瑞 @ 中央研究院  
trc@iis.sinica.edu.tw



# 研究資料寄所 *depositar*

- 對所有人開放的「資料儲存庫」 (data repository)
  - 建基於 CKAN 開放源碼套件，但新增多項功能
    - 新增程式碼已貢獻到 CKAN 開發上游 (upstream)
  - 可自由使用的軟體、可自由註冊的服務、可自由取用的內容
    - FAIR Data: “Findable, Accessible, Interoperable, Reusable”
    - 「公義」資料：可被找到、可被取用、可相互操作、可再次使用
  - 是受託者 (depository) 而不是出版者 (publisher)
    - publisher: engage in “acquisition, copy editing, production, (e-)printing, marketing and distribution”
    - depository: “a place where something is deposited, as for storage, safekeeping or preservation”



Saturday, October 27 • 9:00am - 10:30am

[Back To Schedule](#)

ECAI - New Technologies and Infrastructure **FILLING**

<https://sched.co/HI> [Tweet](#) [Share](#)

Limited Capacity filling up


Moderator: Lewis Lancaster, University of California, Berkeley

9:00-9:30  
Alex Amies, Google  
"Artificial Intelligence and the Study of Buddhism"

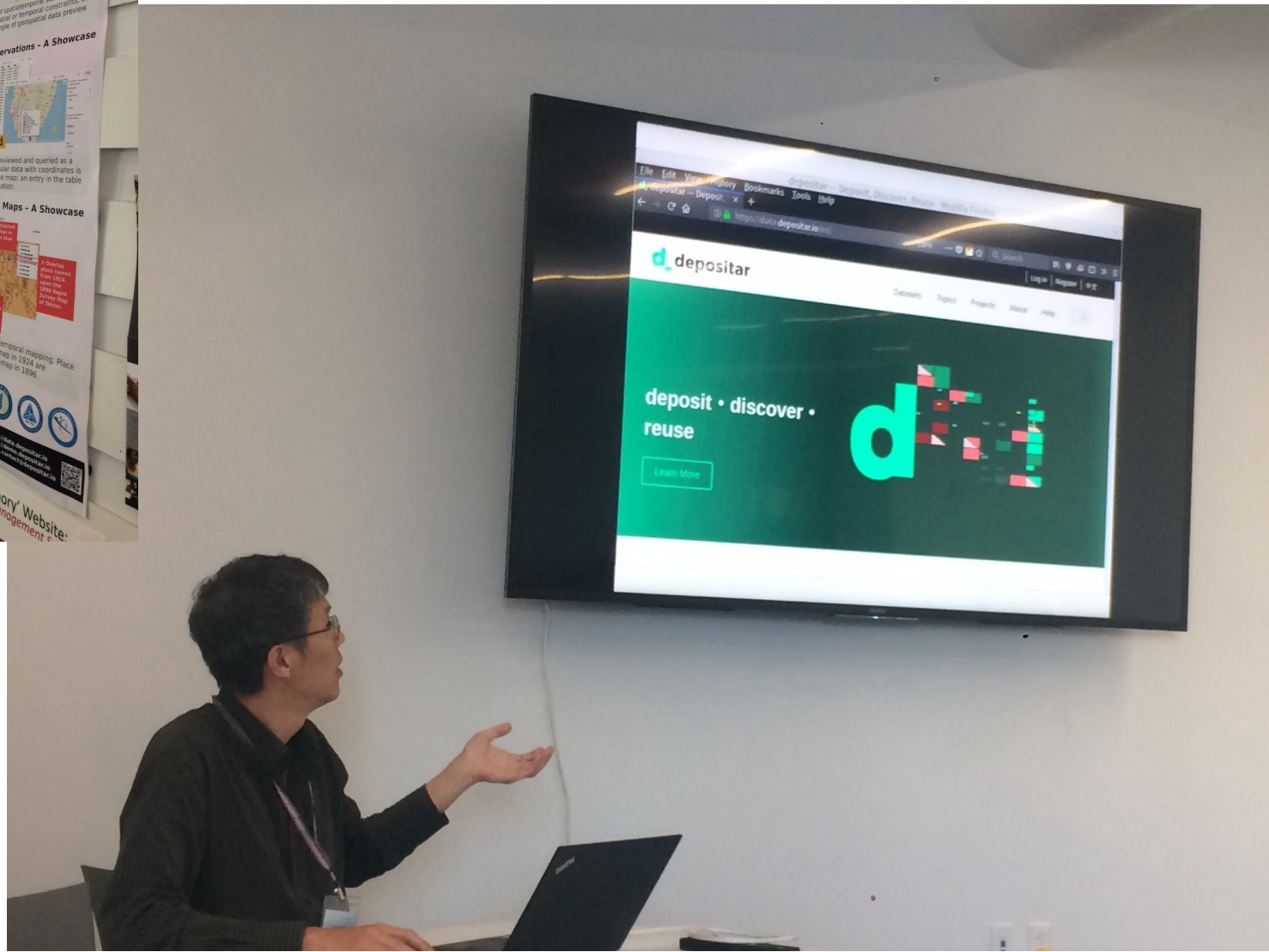
9:30-10:00  
Patrick Schmitz, University of California, Berkeley  
"Scaling Research Computing and Data Infrastructure for Humanities and Domains"

10:00-10:30  
Prof. Tyng-Ruey Chuang, Cheng-Jen Lee, and Chia-Hsun Wang, Academia Sinica, Taiwan  
"Retooling An Open Data Repository for A Research Data Repository"

Moderators

 **Lewis Lancaster**  
Prof. Emeritus, UC Berkeley  
Honorary Chair VSMM 2016

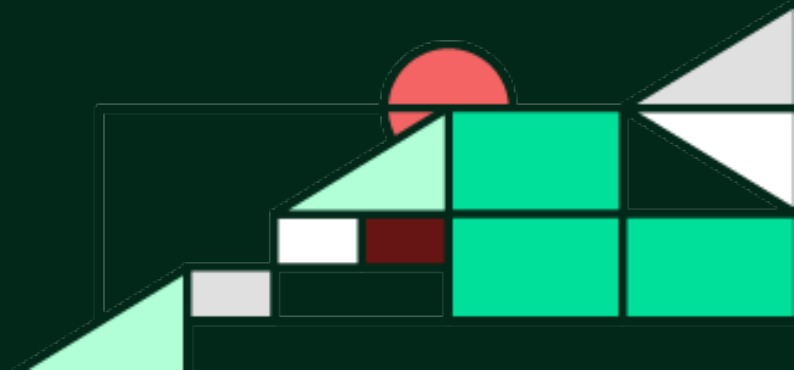
研究資料寄存所 *depositar* 在  
2018 Pacific Neighborhood Consortium  
Annual Conference and Joint Meetings  
於舊金山舉行時正式發布 (開放自由註冊)



## Infrastructure from below

- Research data management is infrastructure work
  - basic but not sexy; mismatch in needs and resources
  - culture of collaboration; priority in coordination
  - need to be a community of practices
- Infrastructure with small pieces from below
  - common licenses, vocabularies, formats, protocols, etc.
  - reusable tools (e.g. CKAN) and references (Wikidata)
  - resource pooling: people, CPU, storage, bandwidth, etc.
  - engaging in communication: code, data, experience, etc.

# 研究資料寄存所 *depositar* 導覽





The screenshot shows a detailed dataset page on the data.depositar.io platform. The page is titled 'Coral Reef Soundscapes off Sesoko Island, Okinawa, Japan'. It includes a description of the dataset as an archive of audio data from shallow-water and upper-mesophotic coral reefs. Key sections include 'Recording Locations' (describing three sites: Site A, Site B, and Site C), 'Acoustic Recorders' (AUSOMS-mini stereo recorders), 'Configuration of Audio Recording' (1) Duty Cycle: continuous, (2) Sampling Rate: 44.1kHz, (3) Channel: 2, (4) File Format: MP3 (128 kbps), (5) Audio Gain: High, (6) High Pass Filter: Off, and 'Field Deployment' (recording sites on Sesoko Island). It also features 'Data Processing' (LTS and mean-based LTS), 'Associated Publication' (Tzu-Hao Lin et al., 2021), and 'Data and Resources' (audio data, long-term spectrums, and codes for data access and analysis). The page includes a map of the recording locations, tags like 'Acoustic diversity', 'Acoustic habitat', 'Coral reef', and 'Mesophotic corals', Wikidata keywords, and basic information such as language (English) and spatio-temporal details (temporal resolution: Daily, start time: 2017-05, end time: 2018-07). It also provides management information including author (Tzu-Hao Lin), contact person (Schori Kogi), and various access options like JSON-API, RDF, and CKAN API.

# 一份在研究資料寄存所上的資料集

<https://data.depositar.io/en/dataset/coral-reef-sesoko>

## 要點 highlight

- 關於資料集與專案的長段落描述
- (寄存的) 資料 data  
(外部的) 資源 resources  
以及關於他們的長段落描述
- 標籤 (tags) 以及 Wikidata 關鍵字 (keywords)
- 基本資訊 Basic information
- 時空資訊 Spatio-temporal information
- 管理資訊 Management information
- 資料授權條款 Licenses
- 資料引用格式 Citation snippets
- 資料取用端點 Data endpoints
  - JSON-API
  - RDF 串列式

## Coral Reef Soundscapes off Sesoko Island, Okinawa, Japan

Followers




0

### Project



### Ocean Biodiversity Listening Project

Project Website The ocean is full of sounds that are generated from geophysical events, marine animals, and human activities. By using a hydrophone (a microphone for underwater... [read more](#)

Dataset  Topics  Activity Stream  History

## Coral Reef Soundscapes off Sesoko Island, Okinawa, Japan



This dataset is an archive of audio data of shallow-water and upper-mesophotic coral reefs off Sesoko Island, Okinawa, Japan. Python codes to visualize the audio data were also provided in a notebook based on Google Colab.

### Recording Locations

Three long-term recording sites were established since May 2017. Site A (N26.635° E127.865° ) is located on the southeast coast of Sesoko Island and in front of the Sesoko Station of the University of the Ryukyus. The water depth is 1.5 m. Site B (N26.665° E127.869° ) is located at the bottom of a reef slope on the north of Sesoko Island and the west of Toguchi Port. The water depth is 20 m. Site C (N26.670° E127.866° ) is located on a nearly flat plateau to the north of Sesoko Island and the west of Toguchi Port. The water depth is 40 m.

### Acoustic Recorders

[AUSOMS-mini stereo recorders](#) (AquaSound, Kobe, Japan) were used to collect underwater sounds. From May 2017 to July 2018, six AUSOMS-mini recorders were used: 14-0106, 14-0107, 15-0106, 15-0107, 15-0109, 15-0110.

### Configuration of Audio Recording

(1) Duty Cycle: continuous. (2) Sampling Rate: 44.1kHz. (3) Channels: 2. (4) File Format: MP3 (128 kbps). (5) Audio Gain: High. (6) High Pass Filter: Off.

### Field Deployment

At each recording site, one AUSOMS-mini stereo recorder was fixed to a cement







**Social**

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Twitter

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Facebook

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**License**

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[CC-BY 4.0](#) [OPEN DATA](#)

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**Cite as** Beta

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Tzu-Hao Lin, Tomonari Akamatsu, Frederic Sinniger, Saki Harii. (2021). *Coral Reef Soundscapes off Sesoko Island, Okinawa, Japan* (Version 2021-01-09T09:11:31.023608) [Data set]. Retrieved from <https://data.depositar.io/en/dataset/coral-reef-sesoko>

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**Cut to clipboard**

Deployment and recovery of recorders were conducted by divers.

**Data Processing**

Audio recordings generated by AUSOMS-mini recorders were saved in MP3 format. Each MP3 is about 8-hour long and do not have a time stamp on the file name. To facilitate data management, we segmented the 8-hour long MP3 into WAV files of 5-min duration.

We used the [LTSA\\_gui](#) to generate long-term spectrograms (LTS) and save the LTS in mat files. Each mat file contains median-based LTS and mean-based LTS. Median-based LTS was obtained by measuring median power spectral densities within each 5-min segment. Mean-based LTS was obtained by measuring mean power spectral densities within each 5-min segment.

**Associated Publication**

Tzu-Hao Lin, Tomonari Akamatsu, Frederic Sinniger, Saki Harii (2020) Exploring coral reef biodiversity via underwater soundscapes. [Biological Conservation, 253: 108901.](#)

**Data and Resources**

	<a href="#">Audio data</a>	<a href="#">Explore</a>
A link to a shared Drive folder of underwater recordings (WAV) and long-term...		
	<a href="#">Long-term spectrogram of Site A</a>	<a href="#">Explore</a>
A mat file contains the median- and mean-based long-term spectrograms.		
	<a href="#">Long-term spectrogram of Site B</a>	<a href="#">Explore</a>
A mat file contains the median- and mean-based long-term spectrograms.		
	<a href="#">Long-term spectrogram of Site C</a>	<a href="#">Explore</a>
A mat file contains the median- and mean-based long-term spectrograms.		





Map tiles & Data by OpenStreetMap under CC BY-SA

### Other Access

The information on this page (the dataset metadata) is also available in these formats:

</>JSON-API

### RDF serializations

based on DCAT 2: **Beta**

</>JSON-LD </>Turtle </>XML

via the [CKAN API](#)



### Tags

Acoustic diversity Acoustic habitat Coral reef Mesophotic corals  
 Noise Ocean sound Remote sensing Underwater soundscape

### Wikidata Keywords

soundscape coral reef

### Basic Information

<b>Data Type</b>	<ul style="list-style-type: none"> <li>Source code</li> <li>Audiovisual data</li> <li>Scientific and statistical data formats</li> </ul>
<b>Language</b>	English (eng)

### Spatio-temporal Information

<b>Temporal Resolution</b>	Daily
<b>Start Time</b>	2017-05
<b>End Time</b>	2018-07
<b>Spatial Coverage</b>	<a href="#">show more</a>
<b>X.min</b>	127.8553390572779
<b>X.max</b>	127.88097380893306
<b>Y.min</b>	26.630362980584657
<b>Y.max</b>	26.68047930832328

### Management Information

<b>Author</b>	Tzu-Hao Lin, Tomonari Akamatsu, Frederic Sinniger, Saki Harii
<b>Contact Person</b>	Tzu-Hao Lin





Map tiles & Data by OpenStreetMap

[Map tiles & Data by OpenStreetMap](#), under CC BY-SA

### 其他存取方式

此頁面上的資訊 (資料集之後設資料) 也提供以下格式：

[JSON-API](#)

[RDF 序列化輸出](#) (修改自 DCAT 2) : Beta

[JSON-LD](#) [Turtle](#) [XML](#)

經由 [CKAN API](#)



### 標籤

- Acoustic diversity
- Acoustic habitat
- Coral reef
- Mesophotic corals
- Noise
- Ocean sound
- Remote sensing
- Underwater soundscape

### Wikidata 關鍵字

- 聲景
- 珊瑚礁

### 基本資訊

資料類型	<ul style="list-style-type: none"> <li>原始碼</li> <li>影音資料</li> <li>科學與統計資料</li> </ul>
語言	英文 (eng)

### 時空資訊

時間解析度	日
起始時間	2017-05
結束時間	2018-07
空間範圍	<a href="#">顯示更多</a>
空間範圍.X.min	127.8553390572779
空間範圍.X.max	127.88097380893306
空間範圍.Y.min	26.630362980584657
空間範圍.Y.max	26.68047930832328

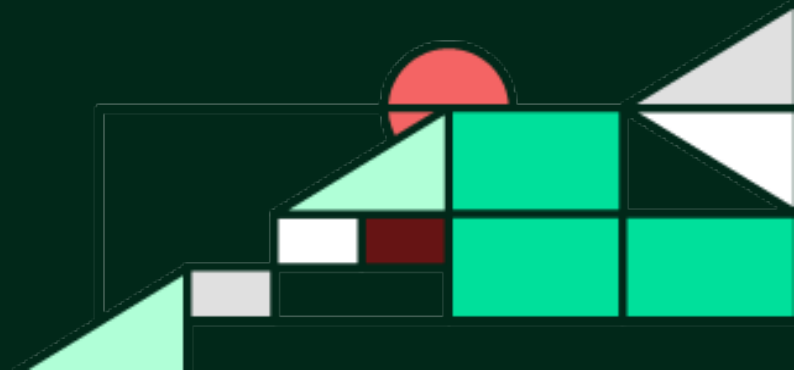
### 管理資訊

產製者	Tzu-Hao Lin, Tomonari Akamatsu, Frederic Sinniger, Saki Harii
聯絡人	Tzu-Hao Lin

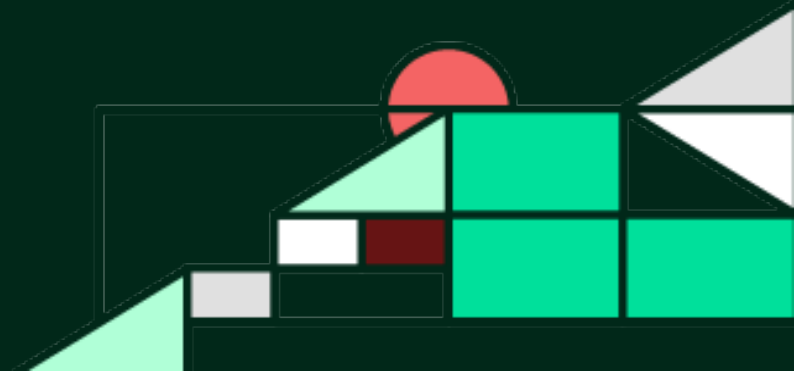


# 研究資料寄存所的新進展（2018 之後）

- 資料集可被 Google Dataset Search 找到
  - 其實我們沒特別作什麼；標準的後設資料欄位（及欄位值）有幫忙到！
- 使用者社群
  - 研究者、公民團體、學校師生、政府機構
- 中英文〈使用條款〉跟〈隱私政策〉
- 大家一起來練習研究資料管理吧！
  - 科技部永續學門專題研究計畫 (2019 – 2022)
  - 研究資料管理工作坊 (2018 & 2021)；「研究資料管理推進室」網站
- @\_depositar – 我們有推特了！



資料儲存庫用於 Data Repositories for  
學術性通訊以及 Scholarly Communication and  
參與性研究實例 Participatory Research







Contents lists available at ScienceDirect

Biological Conservation

journal homepage: [www.elsevier.com/locate/biocon](http://www.elsevier.com/locate/biocon)

## Exploring coral reef biodiversity via underwater soundscapes

Tzu-Hao Lin<sup>a,\*</sup>, Tomonari Akamatsu<sup>b,\*\*</sup>, Frederic Sinniger<sup>c</sup>, Saki Harii<sup>c</sup><sup>a</sup> Biodiversity Research Center, Academia Sinica, Taiwan<sup>b</sup> The Ocean Policy Research Institute, The Sasakawa Peace Foundation, Japan<sup>c</sup> Tropical Biosphere Research Center, University of Ryukyus, Japan

## ARTICLE INFO

## Keywords:

Ocean sound  
Mesophotic corals  
Remote sensing  
Noise  
Acoustic habitat  
Acoustic diversity

## ABSTRACT

Information on biodiversity is essential to evaluate the ecological status of coral reefs. Sounds produced by reef-associated organisms have been used as a biodiversity indicator. However, the interference from abiotic sounds and the lack of a comprehensive audio library have impeded effective evaluation. This study investigated the application of underwater soundscapes as a remote-sensing method to detect biological and anthropogenic activities. Using techniques including the visualization of long-duration recordings, source separation, and clustering, soundscapes were separated into sounds of anthropogenic and biological sources. Our results revealed the dynamics of biological sounds among coral reefs off Sesoko Island, Oki nawa, Japan. Biological sounds were much more prominent in shallow-water reefs than in upper-mesophotic reefs, but their spectral features and compositions differed. The shallow-water reefs were dominated by broadband sounds of crustaceans and low-frequency transient fish calls, whereas the upper-mesophotic reefs were characterized by a diverse array of fish choruses and transient sounds. We also discovered that shipping noise heavily interfered with the soundscapes from the upper-mesophotic reefs and represented an invisible threat to life in the low-light habitat. The applied techniques of soundscape information retrieval revealed the distinct ecological status of coral reefs and the behavior change of sound-producing organisms in high temporal resolution. Implementation of soundscape monitoring can generate ecological information on habitat quality, reef biodiversity, human activities, and their interactions. Global collaboration on underwater soundscapes will establish a data-informed platform and help stakeholders assess the resilience of coral reefs to environmental and anthropogenic stressors.

## 1. Introduction

Marine ecosystems provide irreplaceable services and currently face significant pressures due to climate change, human disturbance, and excessive use of marine resources. The United Nations has recognized these threats and placed the conservation of marine ecosystems as one of its sustainable development goals (UN General Assembly, 2015). Coral reefs support various social and economic activities, such as fisheries, coastal protection, and tourism, of many maritime tropical and subtropical nations (Moberg and Folke, 1999; Barbier, 2017; Spalding et al., 2017; Woodhead et al., 2019). These benefits rely on the abundant biodiversity in coral reefs. However, coral reefs have undergone recurrent high-frequency bleaching episodes over the past 20 years due to increased sea surface temperatures (Hughes et al., 2017, 2018). Therefore, detailed information on the spatiotemporal changing patterns of marine biodiversity and interactions with human activities is crucial for

the conservation management of coral reefs.

Biodiversity monitoring in coral reefs remains challenging, partially due to the distinct reef environments and their unique fish assemblages (Pearman et al., 2018; Dumalagan et al., 2019). A comprehensive and long-term assessment of reef biodiversity, environmental characteristics, and human activities may not be feasible because of limited resources for observation and survey opportunities, especially for developing regions or remote reefs. An underwater sensing system capable of monitoring the changing patterns of marine biodiversity, with the ability to diagnose potential risks due to environmental and anthropogenic stressors, is required for establishing management strategies of coral reefs and for providing alerts to the early-warning signs of ecosystem changes (Schmeller et al., 2017; Obura et al., 2019).

A potential solution for such an underwater sensing platform is through monitoring ocean sounds. One autonomous recorder can store long-duration audio recordings, with improved time resolution of

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E-mail addresses: [lintzuhao@gate.sinica.edu.tw](mailto:lintzuhao@gate.sinica.edu.tw) (T.-H. Lin), [akamatsu.tom@gmail.com](mailto:akamatsu.tom@gmail.com) (T. Akamatsu).

<https://doi.org/10.1016/j.biocon.2020.108901>

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Available online 10 December 2020

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Mooney, 2015

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ous acoustic reef  
ef soundscapes.

With the recent development of underwater technology and audio information retrieval techniques, a soundscape monitoring network can generate numerous acoustic data that contain ecological information in multiple dimensions, including the quality of the acoustic habitat, community of sound-producing organisms, and potential effects due to human activities. The generated information will allow managers and stakeholders to conduct a more comprehensive assessment of ecosystem health at scale.

## Data availability

The audio dataset used in preparing this paper are available from the corresponding authors on reasonable request. A dataset of the LTS is available on depositar (<https://data.depositar.io/en/dataset/coral-reef-sesoko>).

fore, an underwater soundscape monitoring network would enable the integration of noise management into spatiotemporal planning and risk assessment of ecosystem-level consequences.

## Data availability

The audio dataset used in preparing this paper are available from the corresponding authors on reasonable request. A dataset of the LTS is available on depositar (<https://data.depositar.io/en/dataset/coral-reef-sesoko>).

## CRediT authorship contribution statement

**Tzu-Hao Lin:** Conceptualization, Methodology, Software, Validation, Data curation, Formal analysis, Resources, Writing – original draft.  
**Tomonari Akamatsu:** Conceptualization, Methodology, Resources, Data curation, Writing – reviewing and editing, Funding acquisition.  
**Frederic Sinniger:** Conceptualization, Visualization, Investigation, Data curation, Writing – reviewing and editing.  
**Saki Harii:** Conceptualization, Investigation, Writing – reviewing and editing, Funding



**Social**

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**License**

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CC-BY 4.0 [OPEN DATA](#)

**Cite as** Beta

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American Psych...

Tzu-Hao Lin, Tomonari Akamatsu, Frederic Sinniger, Saki Harii. (2021). *Coral Reef Soundscapes off Sesoko Island, Okinawa, Japan* (Version 2021-01-09T09:11:31.023608) [Data set]. Retrieved from <https://data.depositar.io/en/dataset/coral-reef-sesoko>

[Cut to clipboard](#)

Deployment and recovery of recorders were conducted by divers.

**Data Processing**





Audio recordings generated by AUSOMS-mini recorders were saved in MP3 format. Each MP3 is about 8-hour long and do not have a time stamp on the file name. To facilitate data management, we segmented the 8-hour long MP3 into WAV files of 5-min duration.

We used the [LTSA\\_gui](#) to generate long-term spectrograms (LTS) and save the LTS in mat files. Each mat file contains median-based LTS and mean-based LTS. Median-based LTS was obtained by measuring median power spectral densities within each 5-min segment. Mean-based LTS was obtained by measuring mean power spectral densities within each 5-min segment.

**Associated Publication**

Tzu-Hao Lin, Tomonari Akamatsu, Frederic Sinniger, Saki Harii (2020) Exploring coral reef biodiversity via underwater soundscapes. [Biological Conservation, 253: 108901.](#)

**Data and Resources**

	<b><a href="#">Audio data</a></b> A link to a shared Drive folder of underwater recordings (WAV) and long-term...	<a href="#">Explore</a>
	<b><a href="#">Long-term spectrogram of Site A</a></b> A mat file contains the median- and mean-based long-term spectrograms.	<a href="#">Explore</a>
	<b><a href="#">Long-term spectrogram of Site B</a></b> A mat file contains the median- and mean-based long-term spectrograms.	<a href="#">Explore</a>
	<b><a href="#">Long-term spectrogram of Site C</a></b> A mat file contains the median- and mean-based long-term spectrograms.	<a href="#">Explore</a>



# 用 Google Dataset Search 找資料

<https://datasetsearch.research.google.com/search?query=Coral Reef Soundscapes>

The screenshot shows a Mozilla Firefox browser window displaying the Google Dataset Search results for the query "Coral Reef Soundscapes". The search results page includes a search bar with the query, a "Sign in" button, and several filters: "Last updated", "Download format", "Usage rights", "Topic", and "Free". A "Saved datasets" button is also visible. The search results list 29 datasets found. The top result is "Coral Reef Soundscapes off Sesoko Island, Okinawa, Japan" by the Ocean Biodiversity Listening Project. This result is highlighted with a blue box and a yellow arrow pointing to the "Explore at depositor" button. The dataset is updated on Jan 9, 2021, and is provided under the Attribution 4.0 (CC BY 4.0) license. The description states that the dataset is an archive of audio data of shallow-water and upper-mesophotic coral reefs off Sesoko Island, Okinawa, Japan. The recording locations are described as three long-term recording sites established since May 2017. The first result in the left sidebar is "Data from: Hurricane impacts on a coral reef soundscape" from NC State University, updated Dec 28, 2020. The second result is "Coral Reef Soundscapes off Sesoko Island, Okinawa, Japan" from data.depositar.io, updated Jan 9, 2021. The third result is "Correlation between benthic algal cover and coral reef soundscapes" from PLOS, updated Jan 9, 2021.

Dataset Search - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Dataset Search x +

https://datasetsearch.research.google.com/search?query=Coral Reef Soundscapes&docid=L2cvM 200%

Google Coral Reef Soundscapes Sign in

Last updated Download format Usage rights Topic Free Saved datasets

29 datasets found

NC STATE UNIVERSITY Data from: Hurricane impacts on a coral reef soundscape zenodo.org datadryad.org txt, zip Updated Dec 28, 2020

Coral Reef Soundscapes off Sesoko Island, Okinawa, Japan data.depositar.io mat Updated Jan 9, 2021

PLOS Correlation between benthic algal cover and coral reef soundscapes

Coral Reef Soundscapes off Sesoko Island, Okinawa, Japan

Explore at depositor

mat(151517946), mat(178270495), mat(141770285)

Dataset updated Jan 9, 2021

Dataset provided by Ocean Biodiversity Listening Project

License Attribution 4.0 (CC BY 4.0) License information was derived automatically

Description This dataset is an archive of audio data of shallow-water and upper-mesophotic coral reefs off Sesoko Island, Okinawa, Japan. Python codes to visualize the audio data were also provided in a notebook based on Google Colab.

Recording Locations Three long-term recording sites were established since May 2017. Site A (N26.635° E127.865° ) is located on the southeast coast of Sesoko Island and in front of the Sesoko Station of the University of the Ryukyus. The water depth is 1.5 m. Site B (N26.665° E127.869° ) is located at the bottom of a reef slope on the north of Sesoko Island and the west of Toguchi Port. The water depth is 20 m. Site C (N26.670° E127.866° ) is located on a nearly flat plateau to the north of Sesoko Island and the west of Toguchi Port. The water depth is 40 m.

Acoustic Recorders

使用林子皓博士（中央研究院生物多樣性研究中心）所寄存的資料集為範例

# 用 Google Dataset Search 找中文資料

<https://datasetsearch.research.google.com/search?query=劉厝溪>

Dataset Search - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Dataset Search x +

← → ↻ 🏠 🔒 <https://datasetsearch.research.google.com/search?query=劉厝溪&docid=L2cvMTFwNWR4Znp6OC> (170%) ... ☆

Google 劉厝溪 登入

已儲存的資料集

找到 1 個資料集

**D** 台中市南屯區鎮平溪－劉厝溪航攝影像  
data.depositar.io  
external resources +2  
更新日期: Apr 18, 2021

找不到預期的結果嗎?  
瞭解如何將資料集新增至我們的索引。

台中市南屯區鎮平溪－劉厝溪航攝影像

前往以下網頁探索: [depositar](#)

external resources, kml(2334), zip(77363561)

資料集更新日期 Apr 18, 2021

資料集提供者  
Asian Ecological Observation Network

授權  
[Attribution-NonCommercial-ShareAlike 4.0 \(CC BY-NC-SA 4.0\)](#)  
授權資訊是由系統自動產生

說明  
台中市南屯區鎮平里劃入台中高鐵站特定區，已完成區段徵收；在尚未進行都市重劃前，以無人載具航拍紀錄此筏子溪支流鎮平溪－劉厝溪段附近的農田和聚落地景。

使用王豫煌博士（台灣生態學會）所寄存的資料集為範例



https://data.depositar.io/dataset/6ac93

## 資料與資源

-  **航拍規劃中心線**  
規劃航線中心線KML檔 [↗ 探索](#)
-  **OAM正射影像連結 (Link to OpenAerialMap)**  
發布於OAM的正射影像連結 (Link to accessing the ortho-mosaics published on the...) [↗ 探索](#)
-  **2021-04-13 正射影像Google圖磚 (Google Earth tiles)**  
Google圖磚壓縮檔。解壓縮後，點選開啟資料夾中的kml檔，即可使用Google Earth... [↗ 探索](#)
-  **2021-04-13 台中市南屯區鎮平溪—劉厝溪航攝影像**  
中央研究院網格計算中心WebODM計算成果下載連結；建議使用Firefox瀏覽器開啟連結，瀏覽影像2D、3D影像資料。 [↗ 探索](#)
-  **空中360影像**  
空中360影像Google Street View連結。 [↗ 探索](#)

## 標籤

- 南屯區
- 台中市
- 地景變遷
- 筏子溪
- 都市重劃

## Wikidata 關鍵字

- 正射影像
- riverscape
- 筏子溪
- 光球
- 南屯區
- 無人航空載具
- 臺中市



The screenshot shows the dataset page on data.depositar.io. The page title is '台中市南屯區鎮平溪—劉厝溪航攝影像'. It includes a description of the dataset, a list of related resources (such as 'OAM正射影像連結' and '2021-04-13 正射影像Google圖磚'), and a 'Dataset extent' section with a map. The right sidebar contains '基本資訊' (Basic Information) and '管理資訊' (Management Information).

**基本資訊**

資料類型	<ul style="list-style-type: none"><li>壓縮檔資料</li><li>結構化圖形</li><li>影像</li><li>網路通訊資料</li><li>科學與統計資料</li></ul>
語言	中文 (zho)

**管理資訊**

產製者	王豫煌
資料產製時間	2021-04-18
資料處理歷程	<b>航攝製圖影像拍攝</b> 採用DJI Phantom 4 RTK無人載具及D-RTK 2 Mobile Station 連接圖土測繪中心DGPS定位服務進行影像拍攝；航線規劃採用Linea飛行模式，沿中心線KML橫向左右兩側80公尺設定為航拍範圍；鏡頭俯角90度，航高保持離地離地6公尺，影像重疊率前後80%、左右70%。 <b>影像處理</b> 採用中央研究院網格計算中心WebODM 測試平台，設定High Resolution計算模式，輸出正射影像、DSM、3D點雲和模型，再經由中央研究院網格計算中心WebODM平台發布計算成果網頁連結。 <b>360影像拍攝與發佈</b> 使用DJI Mavic 2 Pro無人載具和DJI GO4 App拍攝空中360全景影像，並將影像發佈至Google Street View。
聯絡人	Yu-Huang Wang
聯絡人的電子郵件	yuhuangwang@gmail.com



# 正射影像拼圖 (連結到 Open Aerial Map)

OpenAerialMap Browser - Mozilla Firefox

File Edit View History Bookmarks Tools Help

OpenAerialMap

Search location or coordinates

2021-04-13 台中市南屯區  
鎮平溪－劉厝溪

UPLOADED BY  
Yu-Huang Wang

Display as TMS Thumbnail

Open in iD editor | JOSM

Copy image URL TMS | WMTS

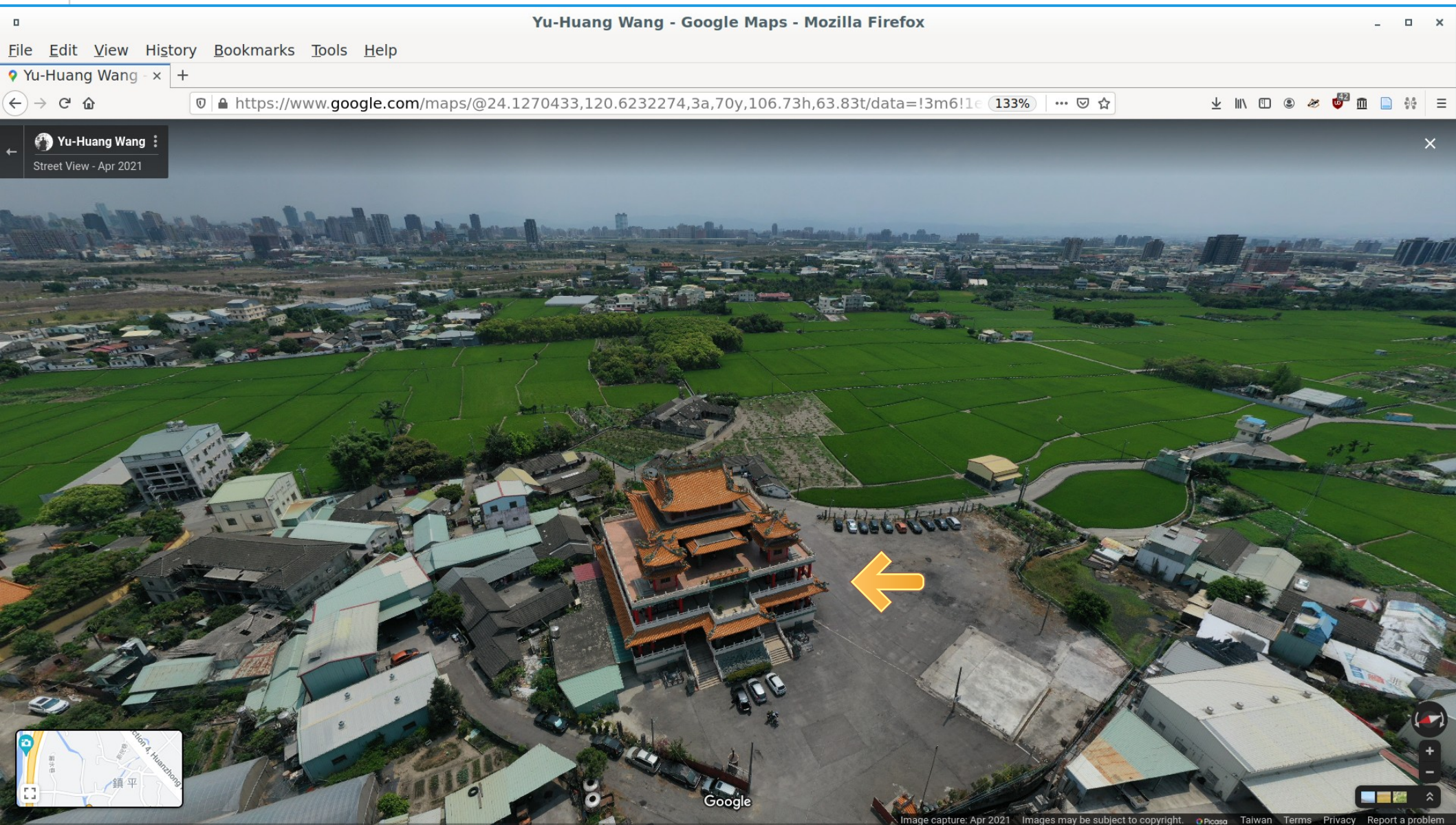
DATE 2021-04-13

RESOLUTION 4 cm

PROVIDER Yu-Huang Wang  
(<https://data.depositar.io/en/dataset>)



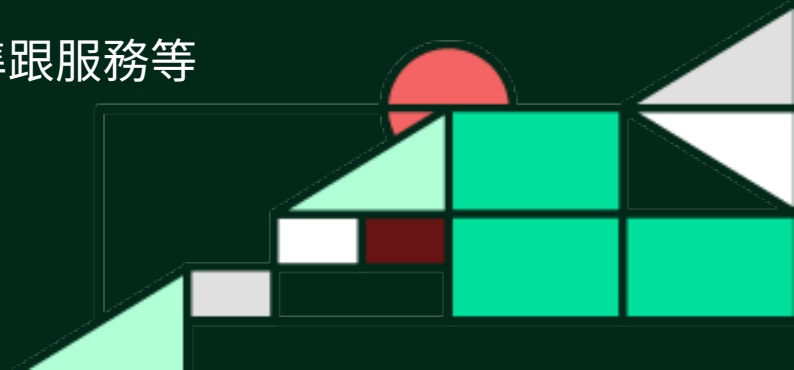
# 空中 360° 環景漫步（連結到 Google Map 服務）



<https://goo.gl/maps/zZZwQ3PkstQzrXYN7>

# 一些觀察與看法

- 「開放科學」目前來說，（至少在台灣）尚屬「倡議」而非「政策」
  - 由上而下？由下而上？您會採取何種作法？
  - 需要大家一起來滋潤開放的文化
  - 坐而言不如起而行；有資源就服務
- 真的要自己作資料儲存庫嗎？
  - 瞭解並服務本地群體
    - 文化與語言的可親近性；本地群體的共同需求
  - 自己做才會知道（技術與非技術的）細節；學會的技能可再傳遞下去
- 要如何自己作資料儲存庫呢？
  - 盡可能再次使用已有的程式碼、共通語彙、標準跟服務等
- 自己作的資料儲存庫可撐得下去？





@\_depositar



# 謝謝! Thank You!

<https://data.depositar.io/>

[data.contact@depositar.io](mailto:data.contact@depositar.io)

The *depositar* is a collaboration at the Institute of Information Science, the Research Center for Information Technology Innovation, and the Research Center for Humanities and Social Sciences (GIS Center) in Academia Sinica, Taiwan. The project has been supported, in part, by grants from Taiwan's Ministry of Science and Technology.

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「研究資料寄存所」是中央研究院資訊科學研究所、資訊科技創新研究中心、人文社會科學研究中心（地理資訊科學研究專題中心）的協作專案，部份經費來自台灣科技部的專題研究計畫。

研究資料寄存所計畫成員：莊庭瑞、何明誼、李承鑫、穆昱佳、王家薰。

