

# 可取用、可永久的文化與資訊遺產

Accessible and Long-Lasting Culture and Information Heritage

博物館歷史學論壇

2021-09-26 @ 國立台灣歷史博物館

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中央研究院 Academia Sinica

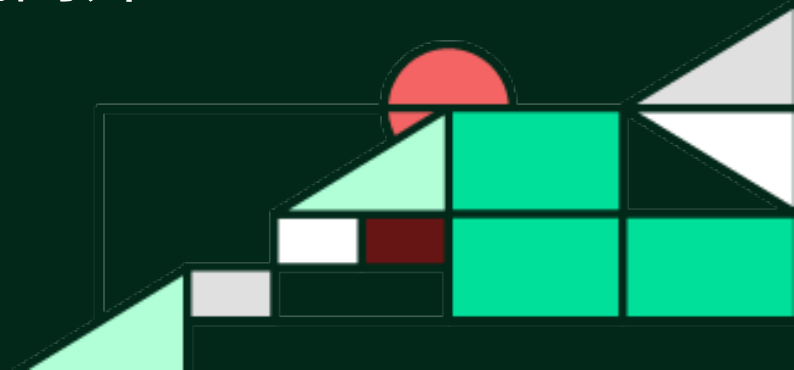


<https://m.odw.tw/u/trc/m/nmth-2021/>



# 個人觀察與經驗

- 博物館：研究、典藏、展示、散佈 (disseminate)
  - 作用的場域
  - 機構的功能
- 流動可再生的數位物件：可再用、可連結、有結構、有協作
  - 以 Smithsonian American Women's History Initiative 為例
  - 你我現在都可以這樣作
- 「研究資料寄存所」 (depositar) 功能簡介
- 討論：文化遺產與研究資料



# 個人看法與期許

- 物件的典藏研究展示 → 文化的擴散使用再生
  - 典藏品的數位化 → 數位物件的產製流通
  - 原生數位媒材檔案的蒐藏保存與再次使用
- 文化地景與文化經驗的紀錄與再現
  - 不（以實體收藏）自我設限的文化記憶機構
  - 能與文化地景觀察紀錄者、文化經驗與當代事件的個人及群體協作
- 博物館的機構自主
  - 永續、研究、教育、交流、發展
  - 數位蒐藏與相關資訊技術的培育與成長



Dr Wade F. Petersen

@PetersenLab\_UCT



Heartbreaking to see the University of Cape Town like this. Greatly appreciative of all the firefighters and first responders who are working tirelessly to get the Table Mountain fire under control.



12:05 AM · Apr 19, 2021 · Twitter for iPhone

65 Retweets 26 Quote Tweets 211 Likes

[https://twitter.com/PetersenLab\\_UCT/status/1383813953235537921](https://twitter.com/PetersenLab_UCT/status/1383813953235537921)

“Fire at the National Museum of Brazil, in Rio de Janeiro, on 2 September 2018”

[https://commons.wikimedia.org/wiki/File:Fire\\_at\\_Museu\\_Nacional\\_05.jpg](https://commons.wikimedia.org/wiki/File:Fire_at_Museu_Nacional_05.jpg)



1956-08-30 「中國電影製片廠北投復興崗片庫發生大火，各類紀錄片約 3 千部全數焚毀。」

1960-09-09 「中央電影公司台中製片廠今日下午發生大火…，該庫所藏影片百餘部付之一炬…」

<https://tfi.openmuseum.tw/muse/exhibition/31433c802eea18dc519230a84065e24f#front>

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蘋果新聞網 我要訂閱 搜尋

快報 宣布網站午夜起停止運作 24日出版最後一份報紙

## 香港《蘋果日報》宣布網站午夜起停止運作 24日出版最後一份報紙

熱門

出版時間: 2021/06/24 00:01  
獨家 | 高雄兩名16歲護專生竟打完AZ 連環疏失害發燒「別死家裡」

最新

郭明錕爆料 FaceID掰明年iPhone 搭屏下指紋、供應鏈選這檔

美國血清研究：去年7月前確診黑數就有1680萬例

<https://web.archive.org/web/20210623204728/https://tw.appledaily.com/home/>

## 新店第一公墓建公園落空 改工業區惹議

(2017-03-19)「新店第一公墓從清乾隆年間就是墓區，總面積七．六公頃，民政局自一〇五年一月十九日動工，分兩期遷葬，聲稱將改造為森林公園，成為「新店之肺」；第一期完工的四．一公頃（一萬二五〇四坪）是乙種工業區，經發局將分四個單元徵求開發廠商，租期廿年，期滿得續租十年，以三次為限，總計五十年。」

<https://news.ltn.com.tw/news/local/paper/1087151>

## 愛研究台灣古墓碑 2 老外籲保存 (2016-04-05)

「奧利華（左起）、艾琳達和友人坐在墓前休息，對墳墓無台灣人的傳統忌諱。（記者翁聿煌攝）」

<https://news.ltn.com.tw/news/local/paper/975924>













LIVE!直播!大腸花垃圾話論壇!全民來開幹!



LIVE!直播!大腸花垃圾話論壇!全民來開幹!

84,760 views • Streamed live on Apr 8, 2014

2.4K 167 SHARE SAVE ...



大帝音地 8.3K subscribers

SUBSCRIBE

YouTube™ Search

**太陽花遍地開** 三立新聞

預計晚間9時結束。

為什麼林飛帆的粉絲人數

台北市

學運今晚場 最後一夜大解放 陳為廷上空開講

12:06 生活資訊 新港人瘋大甲媽萬人空巷如不夜城

0:49 / 2:27

「粉絲竟是我兩個」 陳為廷灌林飛帆 | 三立新聞台

36,941 Views · Apr 9, 2014

三立新聞 1,034 sponsors

太陽花學運今(10)日正式圓滿，許多參與的同學自感交集，也有不同的聲浪，因此他們特別9日把握最後一戰的機會，在立法院戶外開講「太陽花以愛出發」，讓民眾知道，學運始終為廷不安心，被同學嫌腳臭，特地走出立法院，跑到「太陽花」現場把鞋子脫了，讓大眾評理，結果主持人很不給

SHARE SAVE ...

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**「帆神搶馬子」** **佔領立院**

**「陳為廷腳臭」**

**大腸花譙翻紓壓**

0:15 / 2:48

「帆神搶馬子」 「陳為廷腳臭」 大腸花譙翻紓壓-蘋果日報 20140410

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27 11 SHARE SAVE ...

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<http://www.appledaily.com.tw/appledai...>

【突發中心／台北報導】「我暗戀的女生竟然愛上帆神？」一名男大生狂灌林飛帆，另一名學生

SUBSCRIBE

TERM:大鵬花垃圾話論壇 > 20874



## 20874

識別號 identifier: 20874  
主要形式 mainformat: 數位媒體 digital media  
形式分類 format\_category: 影片 video  
內容分類 content\_category: 實錄 documentary film  
所屬事件 event: 大鵬花垃圾話論壇 Sunflower Trash Talk Forum  
產製日期 created\_time: 20140419  
產製地點 created\_place: 台北賓館  
測量 measurement: 5:49:31  
描述 description: 民眾輪流上太陽花垃圾話論壇抒發個人的不滿及看法。  
內容 content: 釋出條款 license: CC0 1.0  
姓名標示值 license\_note: 音地大帝  
權利狀態 rightgranted: 宣告為公眾領域 Dedicated to the Public  
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(6/8)

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若您是本藏品著作人，請點選上面連結進行指認授權作業，想了解更多，請參考相關說明。

引用網址 cited\_as: <http://public.318.io/20874>

JSON: [Download](#)

ALL > 36652



36652

[下載典藏檔案](#)

## 36652

識別號 identifier: 36652  
主要形式 mainformat: 數位媒體 digital media  
形式分類 format\_category: 照片 photograph  
內容分類 content\_category: 照片 photograph  
產製日期 created\_time: 04/09/2014  
產製地點 created\_place: 中山南路·立法院大門口  
測量 measurement: 4912x3264pixels  
描述 description: 大鵬花  
「臺獨機關槍」李柏璋  
內容 content: 釋出條款 license: CC BY-ND 4.0  
姓名標示值 license\_note: 黃恐龍  
權利狀態 rightgranted: 已採用公眾授權 publicly licensed

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(1/23435)

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引用網址 cited\_as: <http://public.318.io/36652>

JSON: [Download](#)

# public.318.io

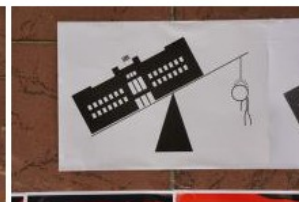
首頁 Home 最新消息 News 關於我們 About 使用規範 Terms of Use 藏品指認 Identification 特藏集 Sets 登入 Login

🏠 ▶ 2014年 3月 29日 (黃恐龍)

## 2014年 3月 29日 (黃恐龍)

這一天，黃恐龍從氣象預報得知降雨機率很高，擔憂立法院現場以紙材質為主的抗爭創作多半會被雨水破壞，便即早到現場記錄抗爭創作，盡可能用影像保留住每一幅創作的完好模樣。抱持著使命感的黃恐龍，在這一天拍下一千一百多張照片，趁著下午陽光普照，他詳細地記錄目光所及的所有抗爭創作，並給予多張特寫。與前幾天多半是晚間拍攝的照片相比，這一天的成果也更好。隔天就是3月30日，反服貿運動的主導團體預定舉辦「330凱道遊行」的日子。黃恐龍在現場各個物資站、帳篷等抗爭者聚集點，看見抗爭者積極籌備要在遊行使用的文宣跟藝術創作。3月27日在現場由滅火器樂團教唱，後來爆紅成為318反服貿運動代表性歌曲的《島嶼天光》，從曲名到歌詞都開始進入現場的抗爭創作中，成為臺灣人記憶中的一部分。晚上真的下起大雨，黃恐龍對自己在這之前就到場作了詳細紀錄而感到慶幸。

識別號 identifier	24618
發布日期 release_date	2020/12/03
發布者 publisher	318公民運動文物紀錄 典藏庫 public.318.io
姓名標示值 license_note	受訪者/黃恐龍訪談、文 稿著作/曾沅芷
授權條款 license	CC BY-ND 4.0



23469



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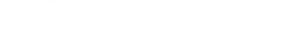


24613

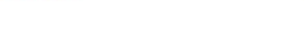
24614



24615



24616



24617



隠されている女性たちに注目し、彼女らはどのように語られているか、さらにどのように自分自身の位置付けについて語っているのかを、次章以降で分析する。

### 3 ひまわり運動の女性像

本章では台湾の学術研究機関「中央研究院」によって保存されるひまわり運動創作物アーカイブ『318 公民運動文物紀錄典藏庫 (318 Civil Movement Archive)』<sup>8)</sup>をデータとして、ひまわり運動期間に創作された創作物に焦点を当て、ひまわり運動における「女性像」が、いかに描かれているのかを考察する。そのうえで、9名のひまわり運動女性参加者にインタビュー調査をおこなって、彼女たちの社会運動への参加経験についてどのような語りを行っているのかを分析する。

#### 3.1 ひまわり運動を象徴する女性像

前章でも述べたが、「祝祭性」という性質を持つひまわり運動の空間では、日々大量の創作物が生み出されていた。その様子について、港は「運動への参加者、支援者が増加するとともに、街路にはさまざまな文字が溢れ出ていった。……群衆は文字の群衆を生み出すからである」<sup>9)</sup>(港 2014: 190)と述べていたが、港が指す「文字」とは、「Word」が意味するものに限定されるわけではない。実際に、街路にあふれていた「文字」の形式は、現場で創り出されるモノや創作品、さ

アーカイブに保存された創作物、さらにはアーカイブに関与した人々の語りによれば、多くの創作物はそのままアーカイブにアップロードされ、自分が自分の創作にアクセスできるように、創作した際に明かされたメタデータやタグ、チェンジンに紐づく作品のメタデータなどの情報は作品形式の大きさ、作品の内容、作成日時、作成場所、記載されコード化されている。つまり、このアーカイブの利用者は、コード化された情報にヒットする任意のキーワードを入力すると、この作品に辿り着くことができる仕組みとなっている。

このような膨大な情報群のなかで、本稿はとりわけ「台湾」に関連する1,000件の作品に焦点を当てる。「台湾」に関連する創作に注目する理由は、前章でも述べたように、ひまわり運動の発端が中国との間の政治関係にあったと見られるからである。さらに、この運動の遠因としては、政治経済面での「中国依存」だと指摘されている(蔡宏政<sup>12</sup> 2016; 吳介民・廖美<sup>13</sup> 2016)。つまり、ひまわり運動においては「台湾対中国」という図式が構築され、(中国に対する)「台湾」は重要なシンボルとして認識されていると考えられる。

従来、台湾における政治活動や社会運動は、しばしば「我々台湾人は、台湾という土地に育てられてきた」ということを強調し、「台湾」を母親のイメージに関連づけてきた(黃恐龍<sup>14</sup> 2014: 10)。このように、台湾の社会運動において、

作品のなかには書かれた言葉の形式がある。支援メッセージもある。その多様な「花」(26点)、「台」(1点)のイメージを描くことができる。では「ひまわり」のイメージが映された「台湾の女性」イメージ

「我們分析 318 公民運動文物紀錄典藏庫 (<http://public.318.io/about>) 中關於「書寫」的 4000+ 多筆記錄，其中絕大多數是支持者寄來的明信片，其中主要發現：…

# 太陽花運動的群眾心理學

# 318 運動資料庫是寶藏

# 以下是論文出版項，要文章的請私訊…」

「我剛剛試著搜尋了一下典藏庫，已經看得到圖片了！鬆了一口氣。

其實相關的研究我已經在日本發表了兩篇論文與數個研討會發表。多虧了資料庫的豐富資訊，可以讓我從中發現許多有趣的面向。」

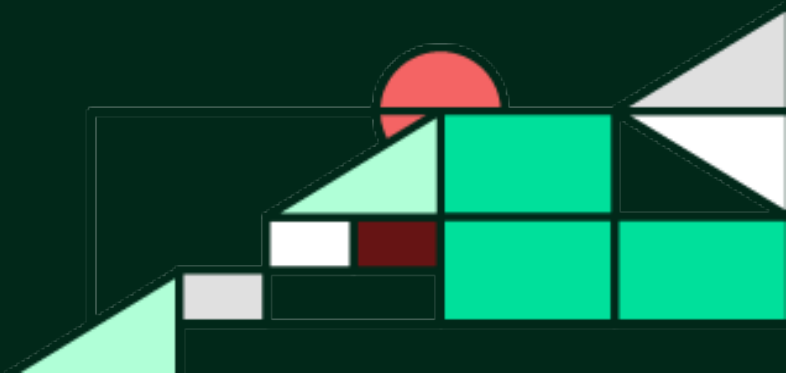


Figure 2.3 A Postcard from Japan (#20452, <http://public.318.io/>, accessed 17 October 2018)

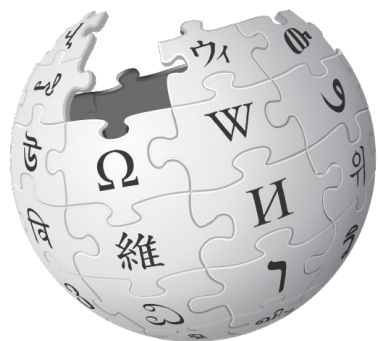
Japanese, showing their international solidarity with Taiwanese protesters amounted to a declaration of their heartfelt gratitude.

There exist some interesting differences between domestic writings and those that came from Hong Kong and Japan. In terms of citations of external reality, international writers tended to focus more on state violence or the use of force by police (16.7%) than the domestic writers (5%). It is possible that international sympathizers were more influenced by the news reports of dramatic incidents, whereas domestic participants and supporters had more on-the-ground understanding so that they turned

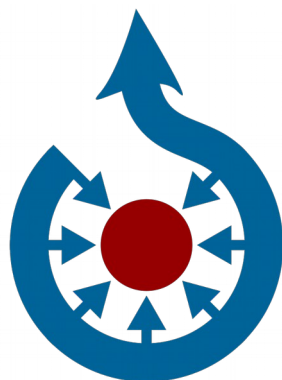
流動可再生的數位物件：  
可再用、可連結、有結構、有協作







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COMMONS**



**WIKIDATA**

- 典藏品的數位媒材檔案可放在「維基共享資源」(Wikimedia Commons)
- 這些數位媒材在「維基百科」(Wikipedia) 詞條撰寫時可被引用
- 這些數位媒材的語意結構資訊可在「維基資料」(Wikidata) 描述
- 以上都可連結回博物館典藏品頁面
- 以上都已經支援多語系編輯與呈現介面，而且不需要系統建置維護費用
  
- 典藏品跟博物館本身，立刻登上 Google 相關詞彙搜尋排行版

Ref: "GLAMs and Open Access: The Smithsonian Institution as Case Study", Kelly Doyle & Andrew Lih @ Wikimania 2021.


[https://docs.google.com/presentation/d/1LJao\\_OT6eEolwhqDQap1TqNuL4G4oubfuLnWwdwkgY/](https://docs.google.com/presentation/d/1LJao_OT6eEolwhqDQap1TqNuL4G4oubfuLnWwdwkgY/)

# Dress designed by Ann Lowe – NMAAHC – Smithsonian





## 摘要 [編輯]

Dress designed by Ann Lowe <small>(📷 🔍 🗣)</small>	
攝影師	Unknown
標題	Dress designed by Ann Lowe
描述	Worn by: Barbara Baldwin Dowd, American
日期	在1966年到1967年之間
表現方法	brocaded silk taffeta, silk chiffon, synthetic fiber, buckram, elastic and metal fasteners,
尺寸	H x W: 55 x 46 in. (139.7 x 116.8 cm) Waist: 30 in. (76.2 cm)
收集	<a href="#">國立非裔美國人歷史和文化博物館</a> <small>🗃 🗣 ▶</small>
目前所在位置	Smithsonian National Museum of African American History and Culture
登錄號	nmaahc_2007.3.23
取得方式/備註	Collection of the Smithsonian National Museum of African American History and Culture, Gift of the Black Fashion Museum founded by Lois K. Alexander-Lane 1966 - 1967
來源	<a href="http://n2t.net/ark:/65665/fd58883b27b-23ca-474d-bd1e-36d5284b5c48">http://n2t.net/ark:/65665/fd58883b27b-23ca-474d-bd1e-36d5284b5c48</a> 

## 授權條款 [編輯]

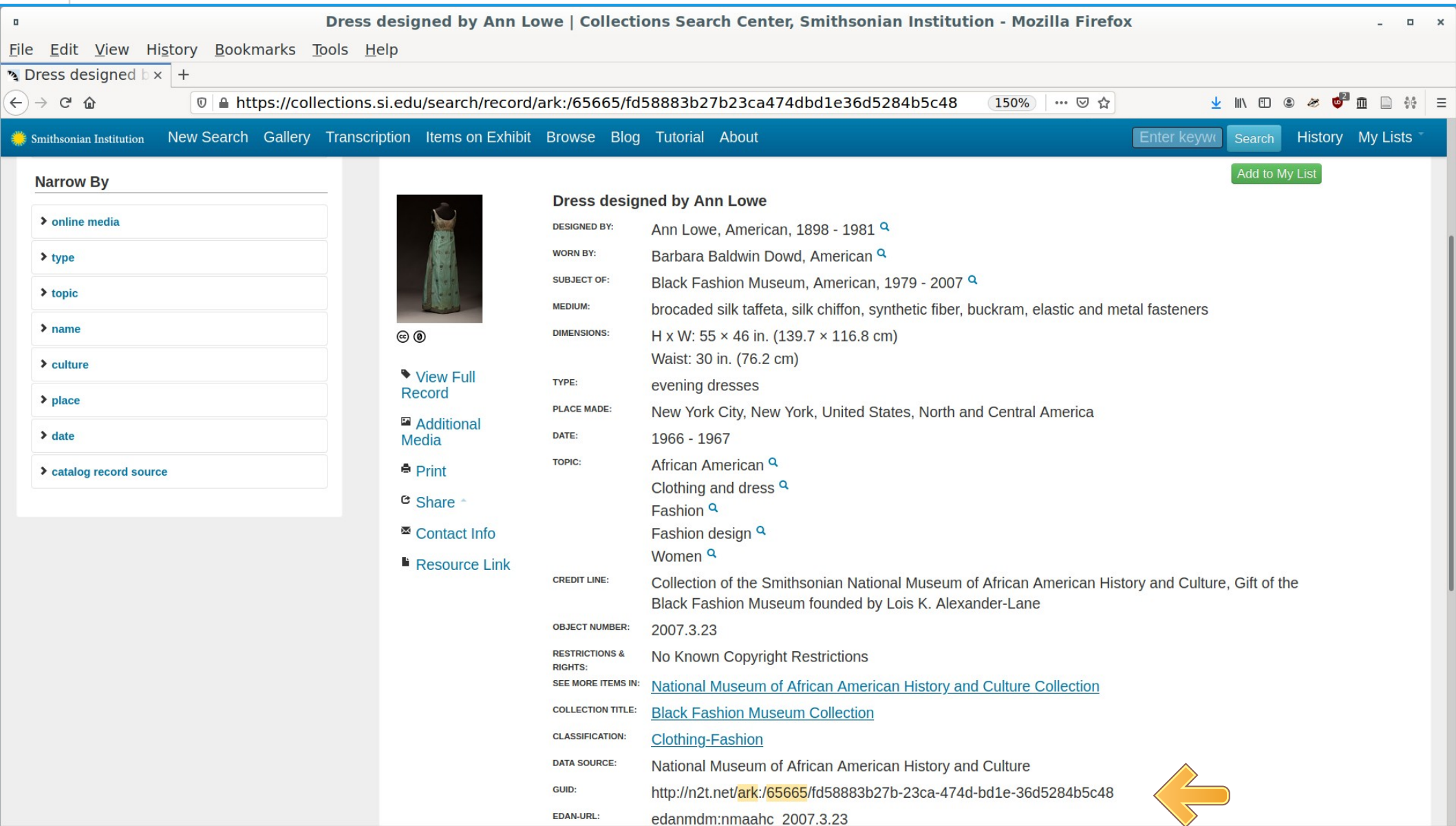
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在此宣告之下分發本作者，已依據各國著作權法，在全世界放棄其對本作品所擁有的著作權及所有相關相似的法律權利，從而將本作品貢獻至公有領域。您可以複製、修改、分發和演示該作品，用於任何商業用途，所有這些都不需要請求授權。

# “Smithsonian Releases 2.8 Million Free Images for Broader Public Use” (2020-02-25)

<https://www.si.edu/newsdesk/releases/smithsonian-releases-28-million-free-images-broader-public-use>



The screenshot shows a web browser window displaying a search result for a dress. The browser title is "Dress designed by Ann Lowe | Collections Search Center, Smithsonian Institution - Mozilla Firefox". The address bar shows the URL: <https://collections.si.edu/search/record/ark:/65665/fd58883b27b23ca474dbd1e36d5284b5c48>. The page features a navigation bar with "Smithsonian Institution" and various menu items like "New Search", "Gallery", "Transcription", "Items on Exhibit", "Browse", "Blog", "Tutorial", and "About". A search bar with "Enter keyword" and a "Search" button is present. A "History" and "My Lists" dropdown menu is also visible. On the left, a "Narrow By" sidebar lists filters: online media, type, topic, name, culture, place, date, and catalog record source. The main content area displays a photograph of a long, light-colored dress with a dark pattern. Below the image are icons for "View Full Record", "Additional Media", "Print", "Share", "Contact Info", and "Resource Link". To the right of the image is a detailed record for the dress, including fields for "DESIGNED BY:", "WORN BY:", "SUBJECT OF:", "MEDIUM:", "DIMENSIONS:", "TYPE:", "PLACE MADE:", "DATE:", "TOPIC:", "CREDIT LINE:", "OBJECT NUMBER:", "RESTRICTIONS & RIGHTS:", "SEE MORE ITEMS IN:", "COLLECTION TITLE:", "CLASSIFICATION:", "DATA SOURCE:", "GUID:", and "EDAN-URL:". A yellow arrow points to the GUID field.

**Dress designed by Ann Lowe**

DESIGNED BY: Ann Lowe, American, 1898 - 1981

WORN BY: Barbara Baldwin Dowd, American

SUBJECT OF: Black Fashion Museum, American, 1979 - 2007

MEDIUM: brocaded silk taffeta, silk chiffon, synthetic fiber, buckram, elastic and metal fasteners

DIMENSIONS: H x W: 55 x 46 in. (139.7 x 116.8 cm)  
Waist: 30 in. (76.2 cm)

TYPE: evening dresses

PLACE MADE: New York City, New York, United States, North and Central America

DATE: 1966 - 1967

TOPIC: African American  
Clothing and dress  
Fashion  
Fashion design  
Women

CREDIT LINE: Collection of the Smithsonian National Museum of African American History and Culture, Gift of the Black Fashion Museum founded by Lois K. Alexander-Lane

OBJECT NUMBER: 2007.3.23

RESTRICTIONS & RIGHTS: No Known Copyright Restrictions

SEE MORE ITEMS IN: [National Museum of African American History and Culture Collection](#)

COLLECTION TITLE: [Black Fashion Museum Collection](#)

CLASSIFICATION: [Clothing-Fashion](#)

DATA SOURCE: National Museum of African American History and Culture

GUID: <http://n2t.net/ark:/65665/fd58883b27b-23ca-474d-bd1e-36d5284b5c48>

EDAN-URL: edanmdm:nmaahc 2007.3.23

# Category:National Museum of African American History and Culture















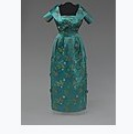



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Smithsonian - NMAAHC - Dress designed by Ann Lowe - NMAAHC 2007.3.23.jpg 1,600 × 2,400 ; 3.1 MB	Smithsonian - NMAAHC - Dress designed by Ann Lowe - NMAAHC 2007.3.21.jpg 5,237 × 8,121 ; 4.27 MB	Smithsonian - NMAAHC - Dress designed by Ann Lowe - NMAAHC 2007.3.22.jpg 4,825 × 7,822 ; 5.26 MB	Smithsonian - NMAAHC - Dress designed by Ann Lowe - NMAAHC 2007.3.19.jpg 3,982 × 7,981 ; 2.53 MB	Smithsonian - NMAAHC - Dress sewn by Rosa Parks - NMAAHC 2007.3.1ab.jpg 3,396 × 5,850 ; 3.93 MB	Smithsonian - NMAAHC - Envelope for letter from H.W. Sewing for Daisy Bates Trust Fund - NMAAHC 2017.14.5b.jpg 7,518 × 3,385 ; 4.19 MB	Smithsonian - NMAAHC - Flyer Promoting a Rally for Angela Davis Day - NMAAHC 2015.97.27.201.jpg 2,357 × 3,000 ; 1.45 MB	Smithsonian - NMAAHC - Lobby card for Tamango - NMAAHC 2013.118.142.7.jpg 8,427 × 6,608 ; 44.04 MB	Smithsonian - NMAAHC - Locket with photographs of Harriette and Harry T. Moore - NMAAHC 2013.157.4.jpg 2,031 × 3,000 ; 593 KB
								
Smithsonian - NMAAHC - Medal given to Althea Gibson by the Armed Forces of Pakistan - NMAAHC 2016.26.5.10.jp	Smithsonian - NMAAHC - On the Art of the Theatre owned by Lois Mailou Jones - NMAAHC 2016.26.5.10.jp	Smithsonian - NMAAHC - Outfit worn by Carlotta Walls to Little Rock Central High School - NMAAHC 2015.45.1ab.jpg	Smithsonian - NMAAHC - Purple dress and white belt worn by Dionne Warwick - NMAAHC 2015.45.1ab.jpg	Smithsonian - NMAAHC - Report card for Carlotta Walls from Little Rock Central High School - NMAAHC 2014.73.2.1-2.j	Smithsonian - NMAAHC - Teal blue dress and cropped jacket designed by Ann Lowe - NMAAHC 2014.73.2.1-2.j	Smithsonian - NMAAHC - Tennis racket used by Althea Gibson - NMAAHC 2014.205.2.1.jp	Smithsonian - NMAAHC - The Fight to Free Angela Davis - Its Importance for the Working Class - NMAAHC 2010.55.101.jpg	Smithsonian - NMAAHC - Trophy awarded to golfer Ethel Funches - NMAAHC 2015.249.1ab.jp

# Category:Smithsonian American Women's History Initiative

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## Category:Smithsonian American Women's History Initiative

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此分類包含以下 7 個子分類，共 7 個。

- A**
  - ▶ Ada Lovelace Day 2019 in Washington D.C. (15 檔案)
  - ▶ Ada Lovelace Day Edit-a-thon at Smithsonian National Air and Space Museum (21 檔案)
- N**
  - ▶ National Portrait Gallery (US) 2021 Images (36 檔案)
- V**
  - ▶ Votes for Women edit-a-thon with Smithsonian National Portrait Gallery (3 檔案)
- All Work and No Pay edit-a-thon with Smithsonian National Museum of American History** (12 檔案)
- AWHI Votes for Women Edit-a-thon** (4 檔案)
- National Portrait Gallery 2020 Images** (283 檔案)

### 「Smithsonian American Women's History Initiative」分類的媒體檔案

此分類包含以下 200 個檔案，共 626 個。

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### American Women's History Initiative [隱藏]

project of the Smithsonian Institution

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Watong Wusheng Temple (Q86810188)

Taoist temple in Wadong village, Baisha Township, Penghu 884 Taiwan

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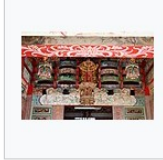
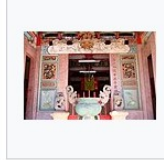

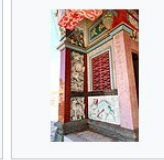
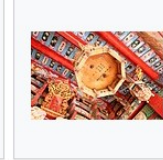
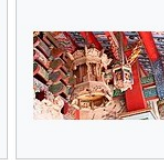

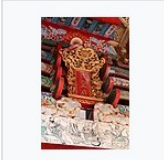
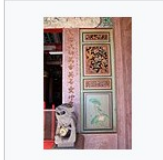
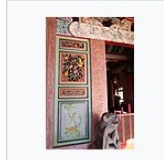

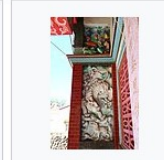

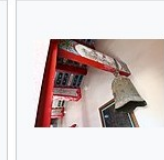
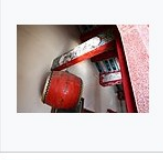
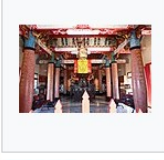
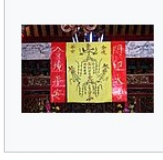

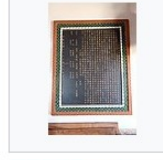
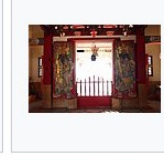
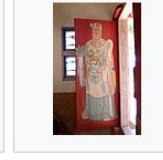
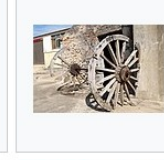
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### Watong Wusheng Temple [Hide]

Taoist temple in Wadong village, Baisha Township, Penghu 884 Taiwan




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**Instance of** Chinese temple (temples of Kwan Tai)

**Location** Watong Village, Baisha, Penghu County, Taiwan Province, ROC

**Street address** no. 72-1, Watong Village



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

Received 18 June 2020; Received in revised form 23 November 2020; Accepted 27 November 2020

Available online 10 December 2020

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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.

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## 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



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

Followers




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### 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

# Data Discovery via Google Dataset Search

<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 bar at the top contains the query, and the results page shows 29 datasets found. The top result is "Coral Reef Soundscapes off Sesoko Island, Okinawa, Japan", which is highlighted with a yellow arrow pointing to the "Explore at depositor" button. A text box on the right side of the image contains the Chinese text: "使用林子皓博士（中研院生物多样性研究中心）的資料集為範例。".

Dataset Search - Mozilla Firefox

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Dataset Search x +

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

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

**D** 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

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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.

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Acoustic Recorders

使用林子皓博士（中研院生物多样性研究中心）的資料集為範例。

# 用 Google Dataset Search 尋找資料集

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



The screenshot shows a Mozilla Firefox browser window with the title "Dataset Search - Mozilla Firefox". The address bar contains the URL <https://datasetsearch.research.google.com/search?query=劉厝溪&docid=L2cvMTFwNWR4Znp6OC>. The search bar contains the text "劉厝溪". The page displays one search result:

**找到 1 個資料集**

**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

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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。

On the left side of the search results, there is a sidebar with a search icon and the text: "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。"

On the right side, there is a blue box with white text: "使用王豫煌博士 (台灣生態學會) 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).

# OAM 正射影像連結 (Link to OpenAerialMap)

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

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DATE 2021-04-13

RESOLUTION 4 cm

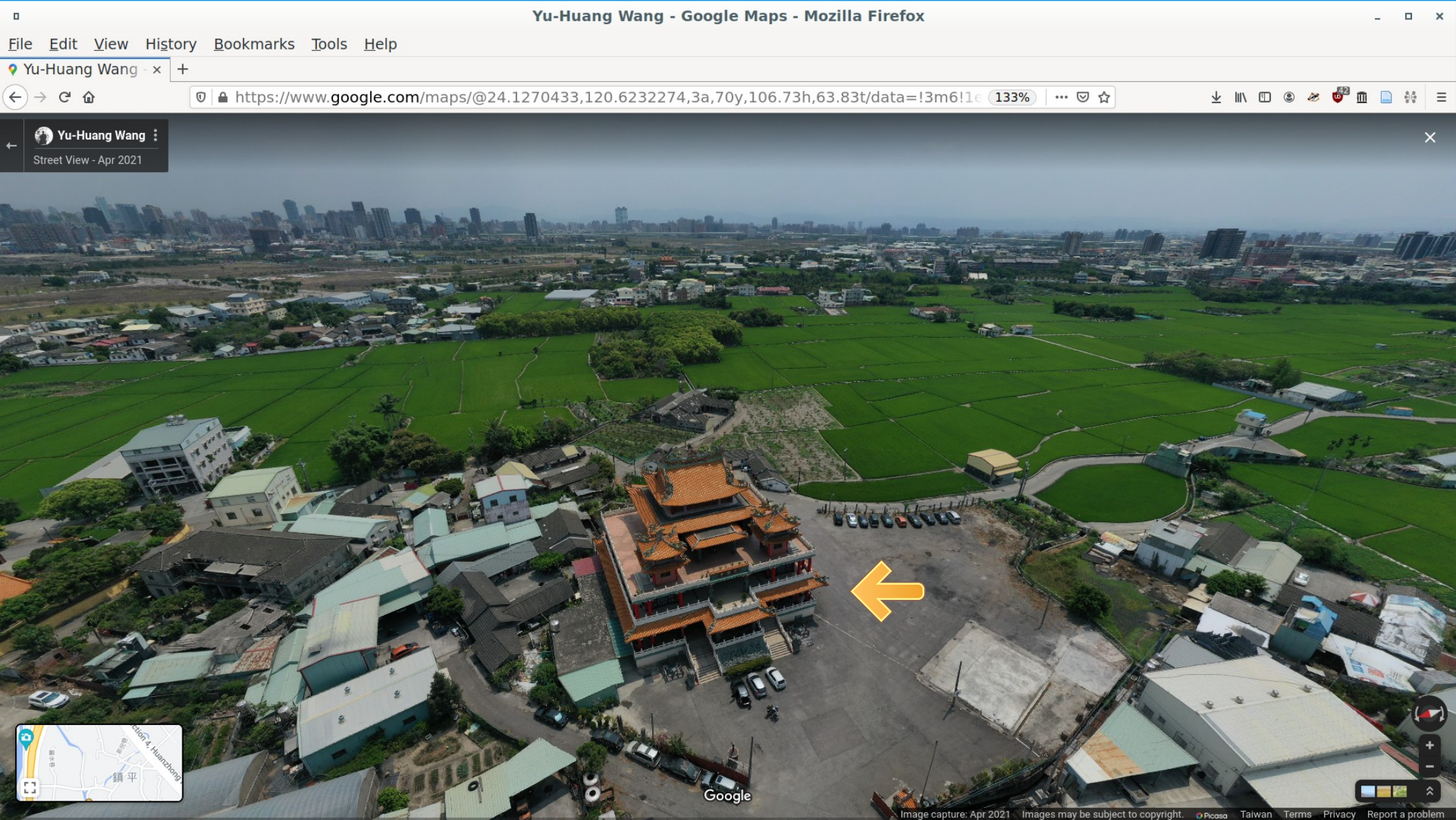
PROVIDER Yu-Huang Wang  
(<https://data.depositar.io/en/dataset>)

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# 空中 360 影像



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

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無人載具航拍監測紀錄高雄美濃雙溪橋上下游疏濬工程的環境變化與衝擊 (UAV mapping the


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**Filter by location** Clear



Map tiles & Data by OpenStreetMap, under CC BY-SA

**Filter by Time** Clear

**Wikidata Keywords**

Taijiang Inner Sea (51)

### Deep-sea soundscapes of Japan

This dataset is an archive of acoustic data and soundscapes of Japan. Recording Locations in Japan were recorded. This...

mat

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KMZ gpkg KML PDF CSV

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此資料集為新竹市環保局提供的水環境改善計畫工程平面配置圖，處理成可使用Google Earth P

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# Thank You!

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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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