

# 21<sup>st</sup> Meeting of the South West Pacific Hydrographic Commission

## National Report by

Cook Islands – Associate Member State



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South West Pacific Hydrographic Commission



# Main achievements during the year



## • Cook Islands Lidar Project

- Cook Islands Tide Gauge and Ground Control Point Surveying
  - Infrastructure Cook Islands (ICI), Pacific Commission (SPC), Climate Change Cook Islands (CCCI)
- Travel to the Southern Groups Islands
  - Atiu island
  - Mauke Island
  - Mitiaro Island



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# Main achievements during the year



Installation of temporary Tide Gauging and Global Navigation Satellite System (GNSS) work on Outer Island (in conjunction with the other Nga-Pu-Toru islands) with SPC, CCCI and ICI, under the Green Climate Fund (GCF) and Climate and Oceans Support Program in the Pacific (COSPPac).

To support our Light Detection and Ranging (LiDAR) Project - to tie in Ground Control Points (GCPs) and Mean Sea Level (MSL). This allows us to reference LiDAR mapping of the islands to sea level.

To properly Occupy survey marks with GNSS and then level the marks to the tide datums determined from the tide gauging:

1. Install temporary tide gauge (minimum 35 days)
2. Install and occupy 3 survey bench marks for the temporary tide gauge (near harbour, 2 x 6 hour occupation periods per mark to establish geodetic control)
3. Level temporary tide staff and complete 25-hour manual tide readings
4. Measure other GCPs to validate LiDAR measurements.

Capacity building for ICI, CCCI and Mauke Infrastructure staff on surveying and tide gauge work with SPC. Follow on upcoming training in Fiji scheduled around March 2024 for more theoretical and practical experience.



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# Main achievements during the year



**GNSS reading on boat at sea level to complement manual tide gauge reading.**



**Levelling heights at Harbour Area**



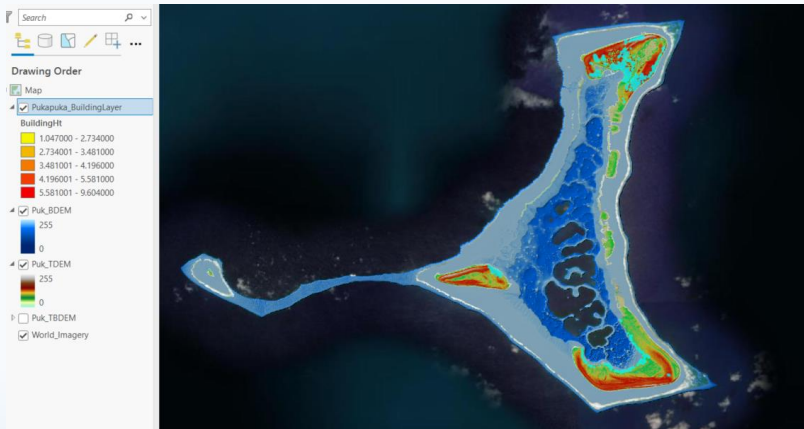
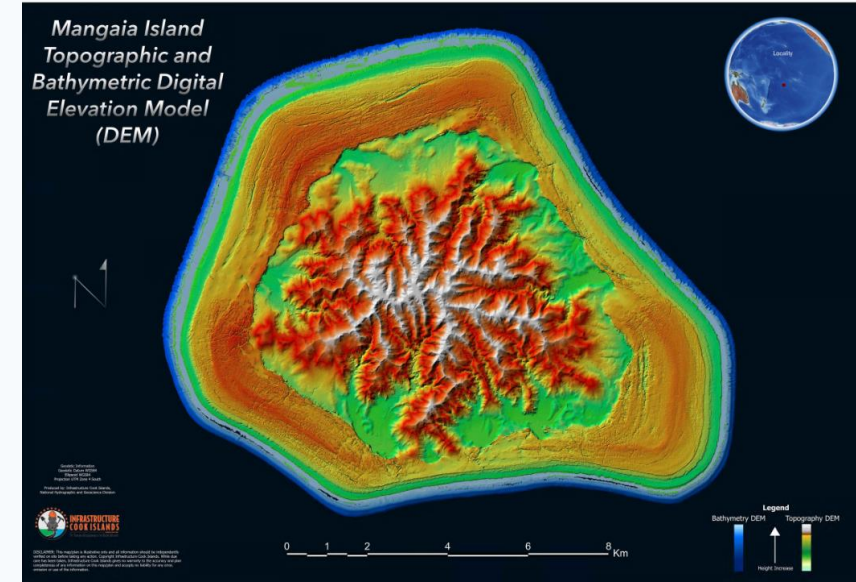
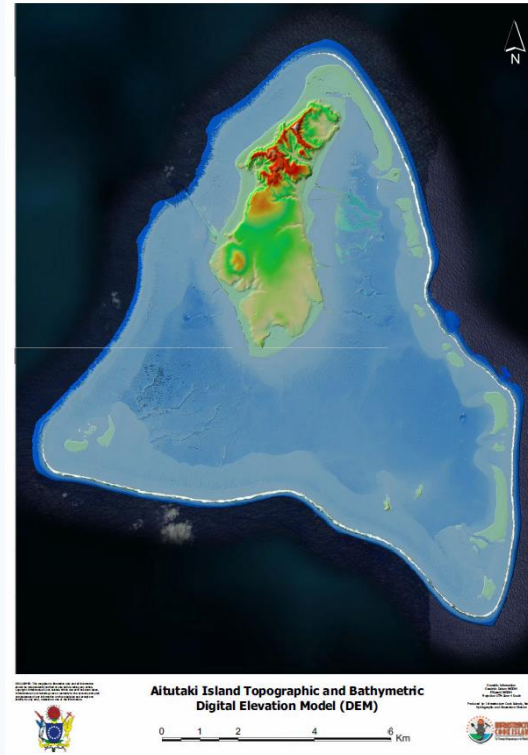
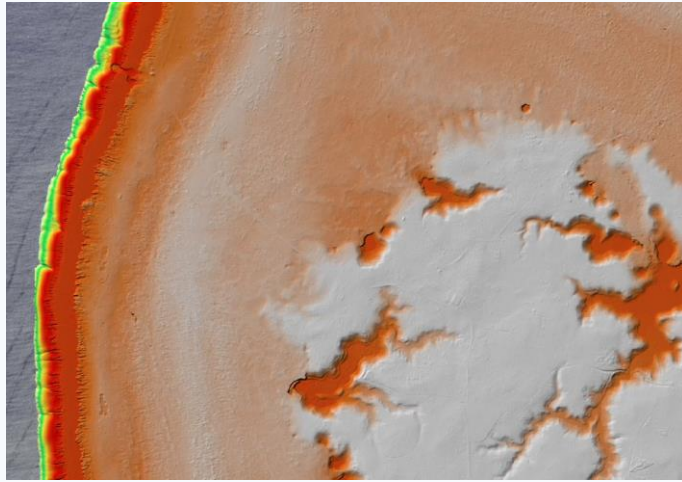
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# Main achievements during the year

Final Processing of Mapping Products Outer Islands delivery scheduled for March 2024).



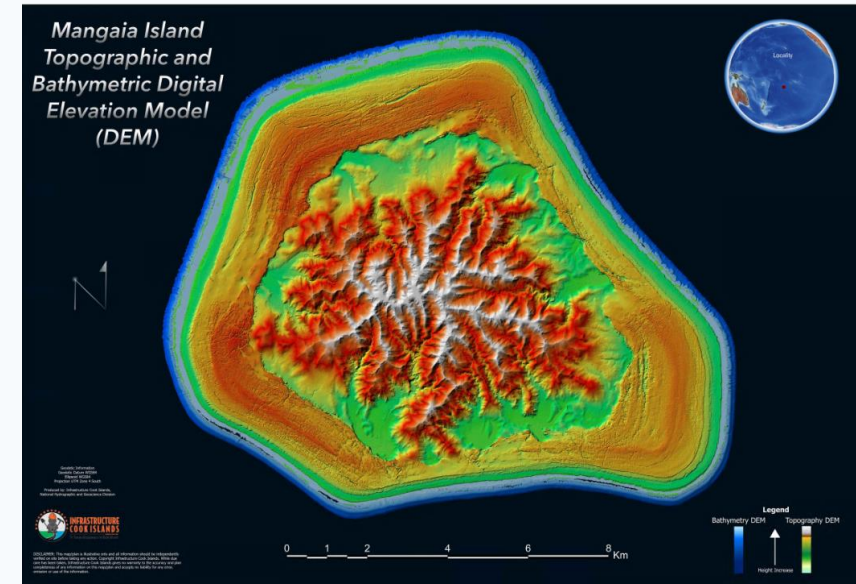
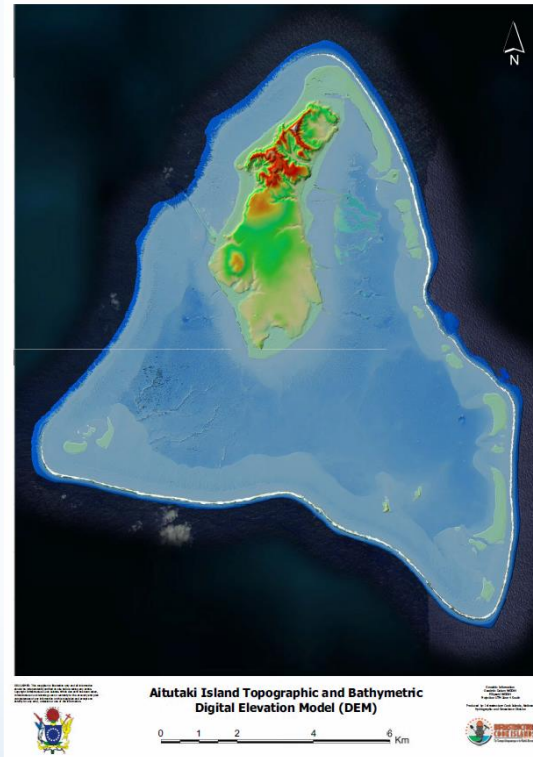
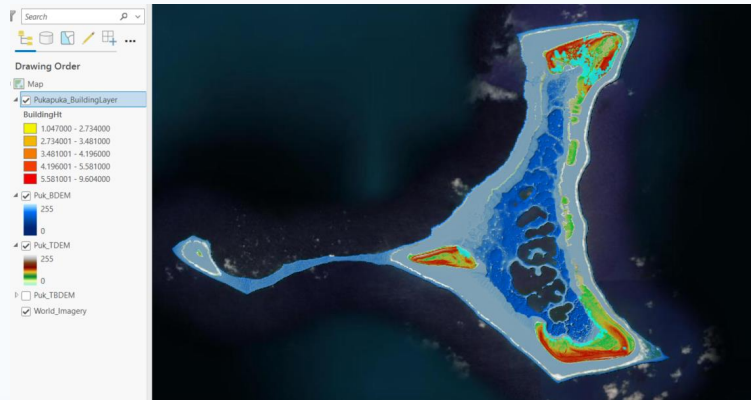
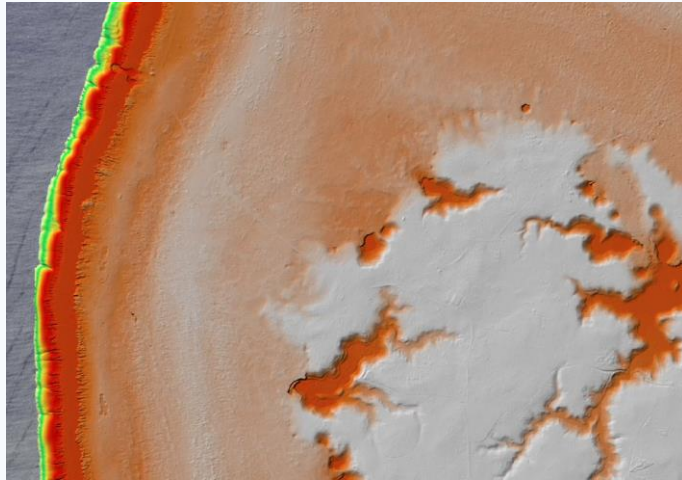
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# Main achievements during the year

- Lidar dataset will be shared with LINZ Cook Islands Primary Charting Authority
- SPC alternative repository for spatial data

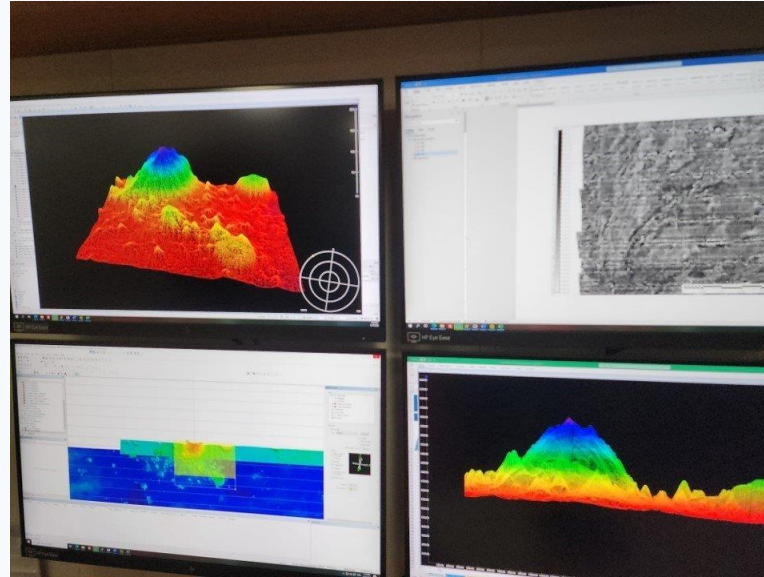


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# Main achievements during the year



## Research Vessel Anuanua Moana

**MBS and SBS from Anuanua Moana dataset available  
updates Cook Islands Nautical Charts**

[www.sbma.gov.ck/csd-1](http://www.sbma.gov.ck/csd-1)



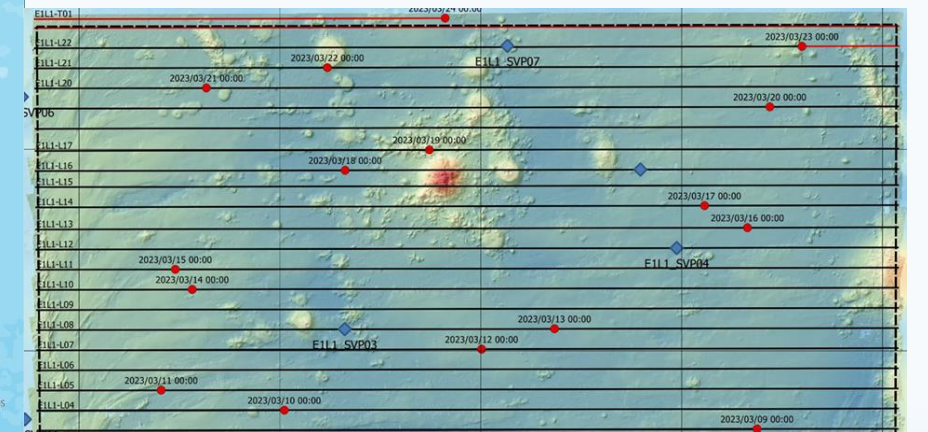
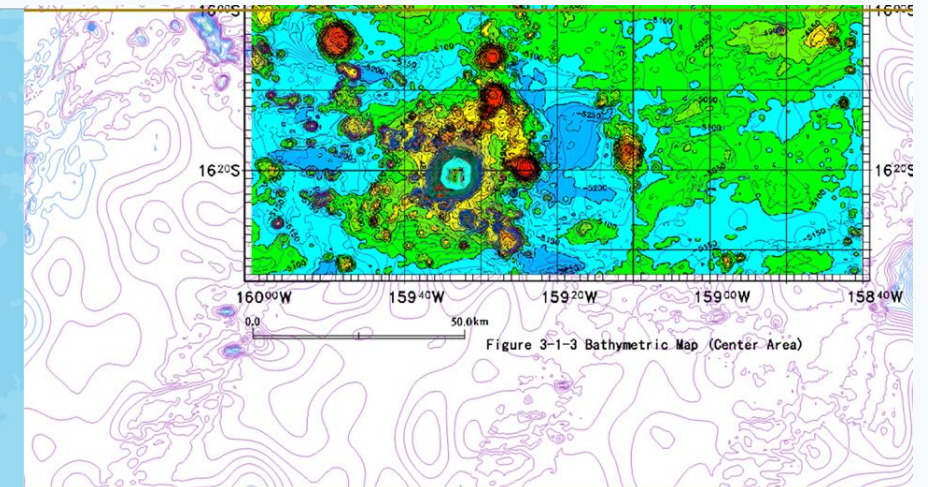
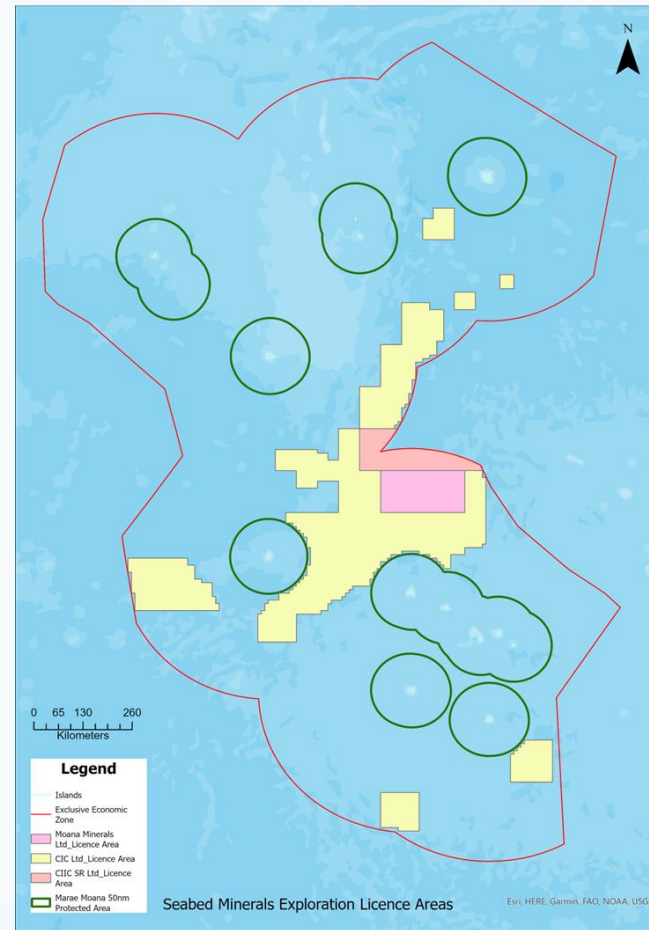
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# Main achievements during the year

- **Multibeam survey tracks will be deposited to the government Geoportals (CookGeo)**
- **GEBCO2030**



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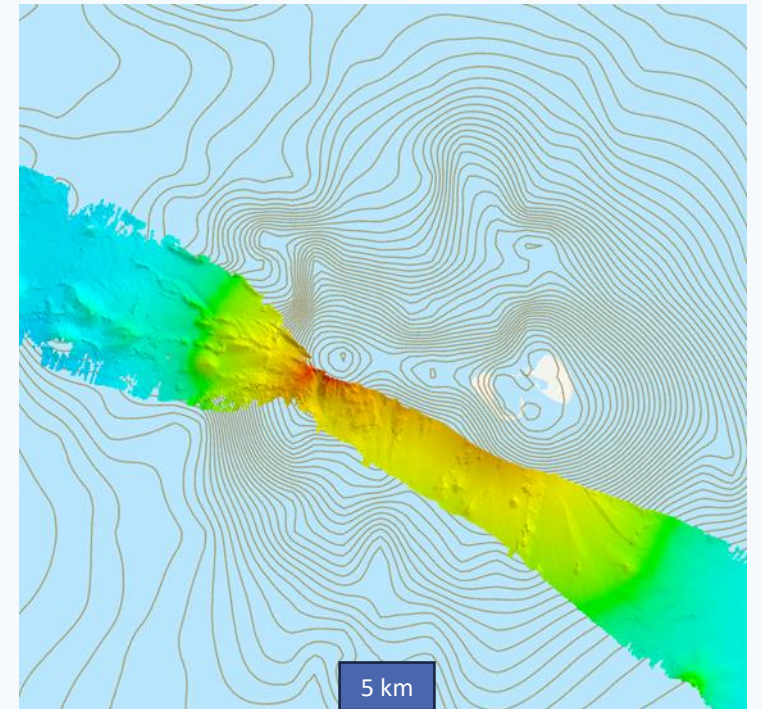
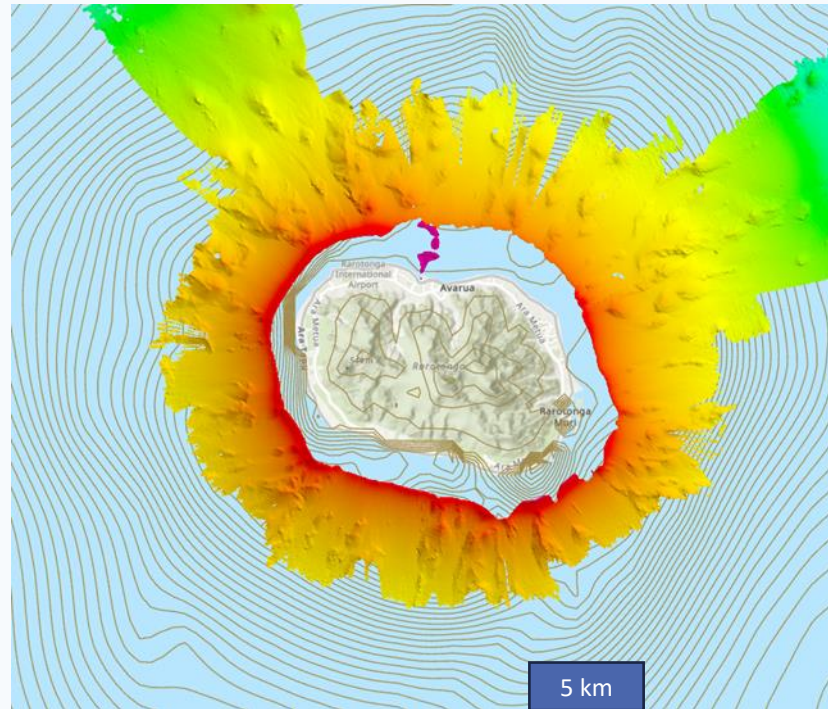
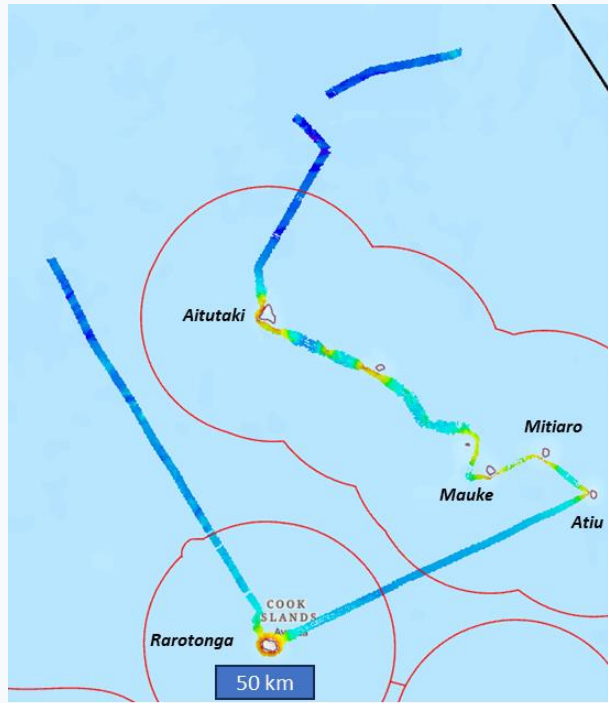
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# Main achievements during the year

## Multibeam survey tracks inside the Cook Islands 200EEZ



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# Main achievements during the year

## Geospatial Dataset Licence Agreements



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[Insert name of Licensee] ("Licensee")

Signed on behalf of ICI by:

\_\_\_\_\_  
Authorised signatory

\_\_\_\_\_  
Name and position

\_\_\_\_\_  
Date

Signed on behalf of Licensee by:

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"Intellectual Property" means trade marks, copyright, patents, designs, circuit layouts, rights in databases and lists, confidential information, know-how and trade secrets, and all other forms intellectual property, in each case whether registered or unregistered (including applications for the grant of any of the

• Short Form

• Long Form

• Cook Islands Government Agencies



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# Main challenges and/or obstructions

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- **New Head of Ministries and Minister appointed**
- **Lack of knowledge importance of hydrography**
- **Recruitment process very difficult to attract technical people**
- **Lack of funding commitment from Government**

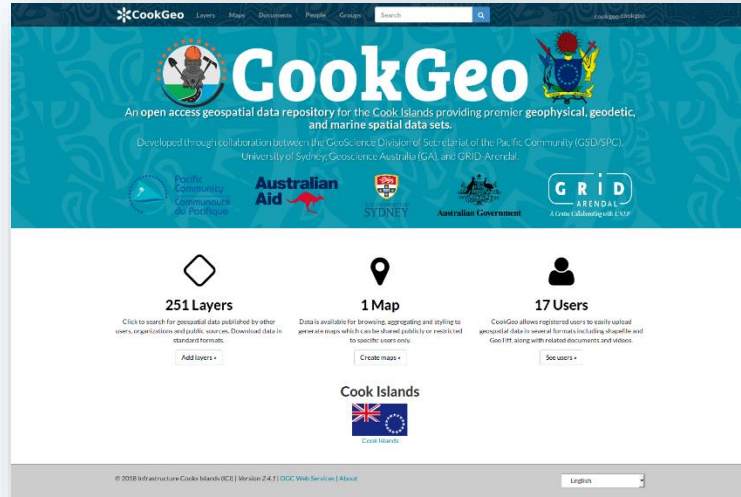


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# Any other matters of interest



## CookGeo Portal will be launched

- Repository and centralize all government geospatial datasets.
- Any user can access the portal with your permission rights.
- IHO membership in discussion with Minister of Foreign Affairs.

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# Meitaki Ma'ata



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