



# Van Kirap Portal

## Release 2.0 Walkthrough

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Author: David Wilton / Nathan Eaton



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# Platform Access

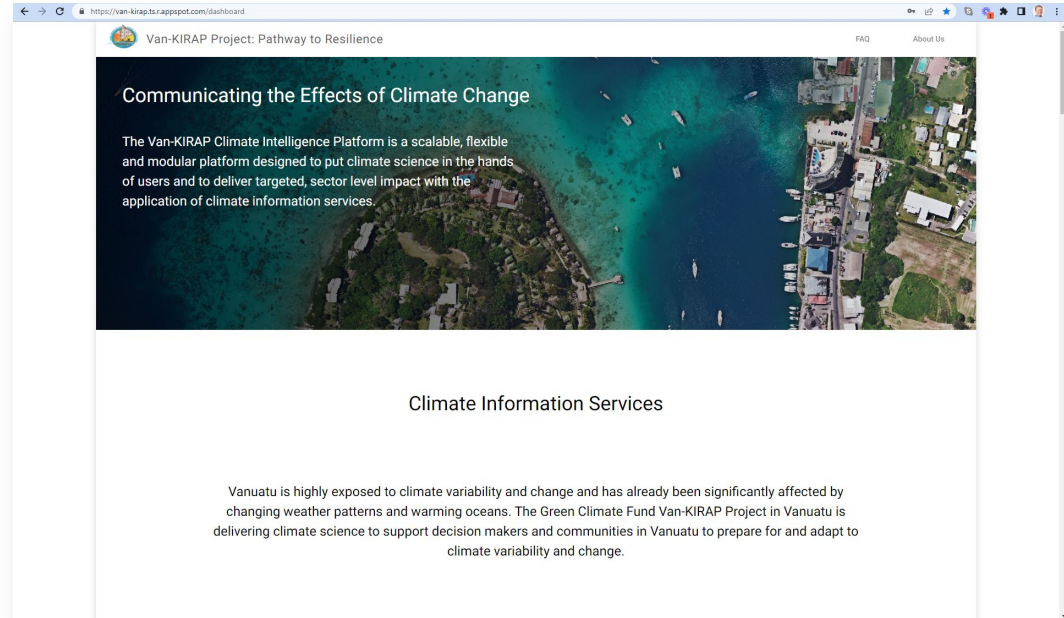


<https://van-kirap.ts.r.appspot.com/>

User Access: Generic Username/Password

Username: test

Password: vanKirap123





# Landing Page Updates

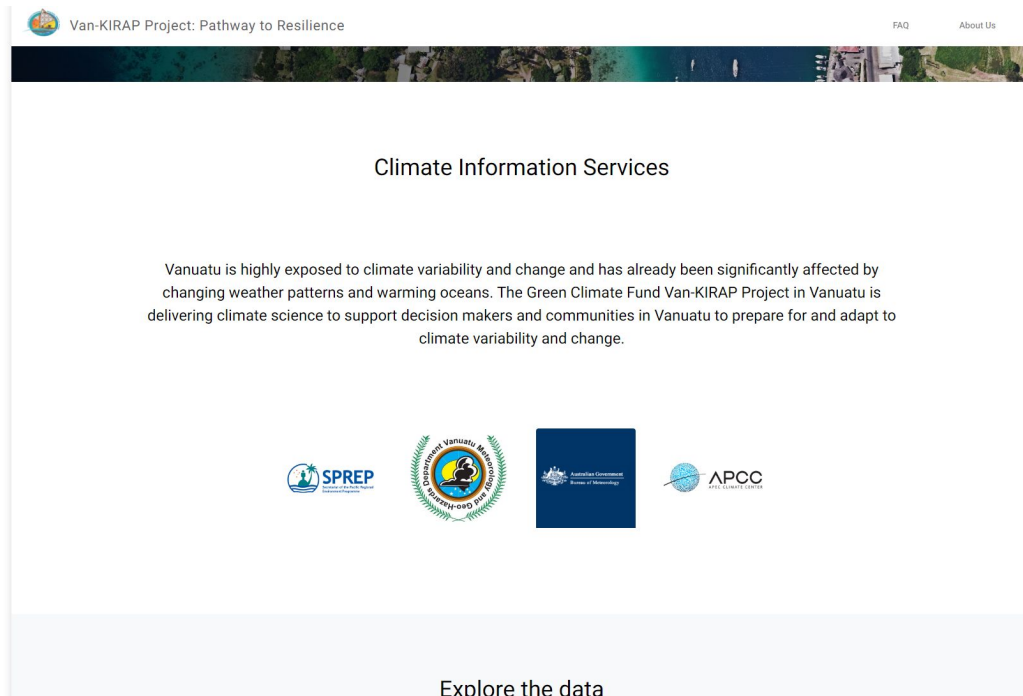
VK Portal 2.0



# VK Portal | Landing Page Updates

## Updated Design

- Promoting key partners
- Providing different sections that can be expanded
- Scrolling design approach with fixed banner



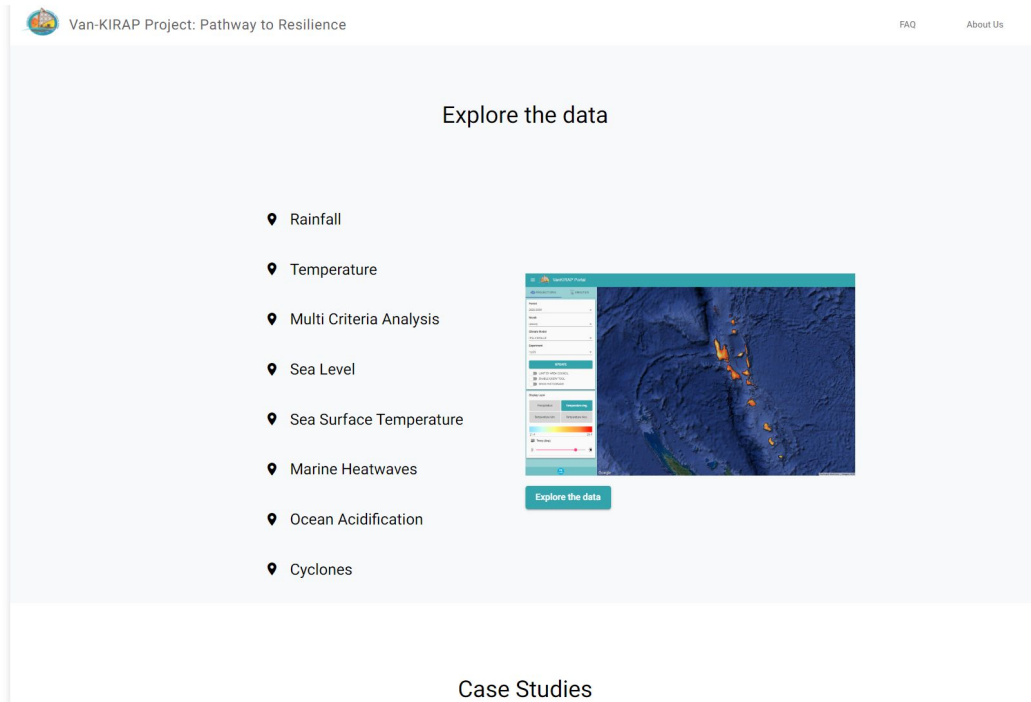
The screenshot shows the landing page for the Van-KIRAP Project. At the top, there is a navigation bar with the text "Van-KIRAP Project: Pathway to Resilience" and links for "FAQ" and "About Us". Below the navigation bar is a large banner image showing a tropical coastline with a boat. The main heading is "Climate Information Services". The text below the heading reads: "Vanuatu is highly exposed to climate variability and change and has already been significantly affected by changing weather patterns and warming oceans. The Green Climate Fund Van-KIRAP Project in Vanuatu is delivering climate science to support decision makers and communities in Vanuatu to prepare for and adapt to climate variability and change." Below the text are four logos: SPREP (Secretariat of the Pacific Region Environment Programme), the National Vanuatu Environment Authority logo, the Australian Government Department of Environment and Energy, and APCC (Asia-Pacific Climate Change Centre). At the bottom of the page, there is a button that says "Explore the data".



# VK Portal | Landing Page Updates

## Explore the Data

- New dedicated section for key climate data products
- Entry point for the default Van Kirap Data Viewer



Van-KIRAP Project: Pathway to Resilience

FAQ About Us

### Explore the data

- 📍 Rainfall
- 📍 Temperature
- 📍 Multi Criteria Analysis
- 📍 Sea Level
- 📍 Sea Surface Temperature
- 📍 Marine Heatwaves
- 📍 Ocean Acidification
- 📍 Cyclones

Explore the data

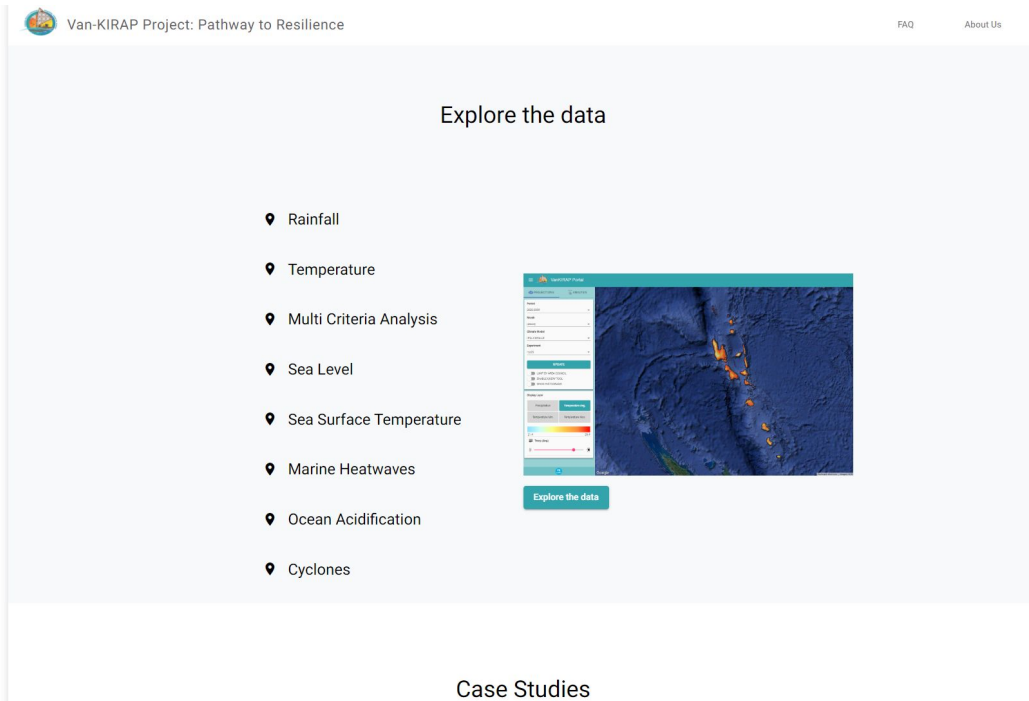
Case Studies



# VK Portal | Landing Page Updates

## Case Studies

- Improved design for the Case Studies
- Includes short description for each respective Case Study
- Modular design to better enable additional case studies
- Note: Text and images to be updated based on feedback



Van-KIRAP Project: Pathway to Resilience

FAQ About Us

### Explore the data

- 📍 Rainfall
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- 📍 Cyclones

Explore the data

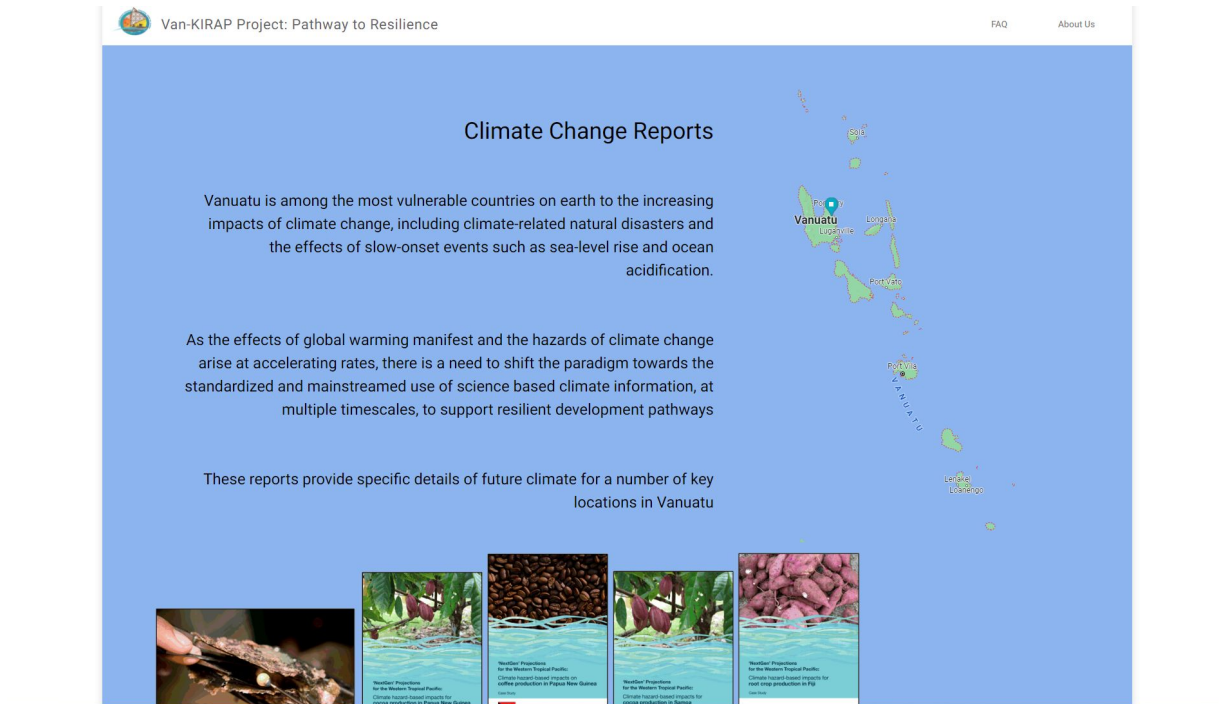
Case Studies



# VK Portal | Landing Page Updates

## Climate Change Reports

- New section that can provide links to any fixed reports or stand alone information products that are produced for Van Kirap
- Note: Text and images to be updated based on feedback



Van-KIRAP Project: Pathway to Resilience

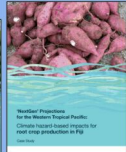
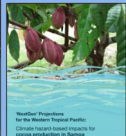

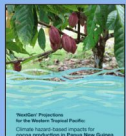


FAQ About Us

### Climate Change Reports

Vanuatu is among the most vulnerable countries on earth to the increasing impacts of climate change, including climate-related natural disasters and the effects of slow-onset events such as sea-level rise and ocean acidification.

As the effects of global warming manifest and the hazards of climate change arise at accelerating rates, there is a need to shift the paradigm towards the standardized and mainstreamed use of science based climate information, at multiple timescales, to support resilient development pathways

These reports provide specific details of future climate for a number of key locations in Vanuatu







# VK Portal | Landing Page Updates



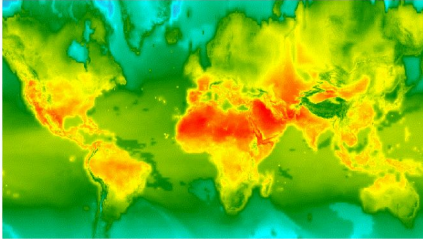
## Data Discovery

- New section that can provide links to specific data product pages
- This section would provide details metadata as well as API and data download capability
- Note: Provided as a placeholder only at this stage

Van-KIRAP Project: Pathway to Resilience FAQ About Us

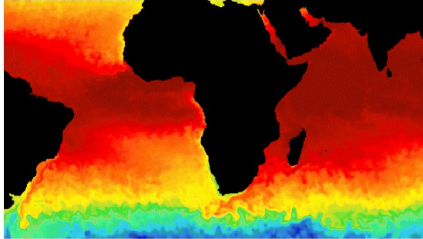
[Read more](#)

### Data Discovery



**Climate**  
EXAMPLE ONLY. Climate models generate both long-term climate predictions and historical interpolations of surface variables. The Earth Engine catalog includes historical reanalysis data from NCEP/NCAR, gridded meteorological datasets like NLDAS-2, and GridMET, and climate model outputs like the University of Idaho MACAv2-METDATA and the NASA Earth Exchange's Downscaled Climate Projections.

[Explore the data](#)



**Sea Surface Temperature**  
EXAMPLE ONLY. Thermal satellite sensors can provide surface temperature and emissivity information. The Earth Engine data catalog includes both land and sea surface temperature products derived from several spacecraft sensors, including MODIS, ASTER, and AVHRR, in addition to raw Landsat thermal data.

[Explore the data](#)

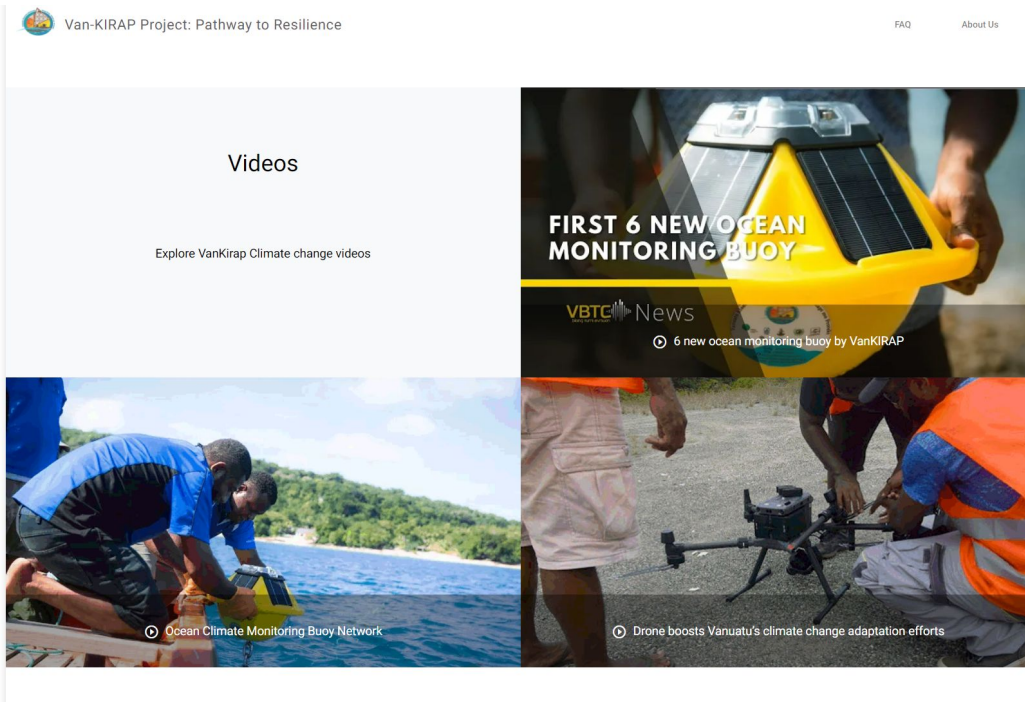


# VK Portal | Landing Page Updates



## Videos Section

- New section that can provide links to project videos
- Modular section to provide capability to include additional videos
- Videos open in a youtube player in a separate tab





# Climate Data Viewer Updates

VK Portal 2.0

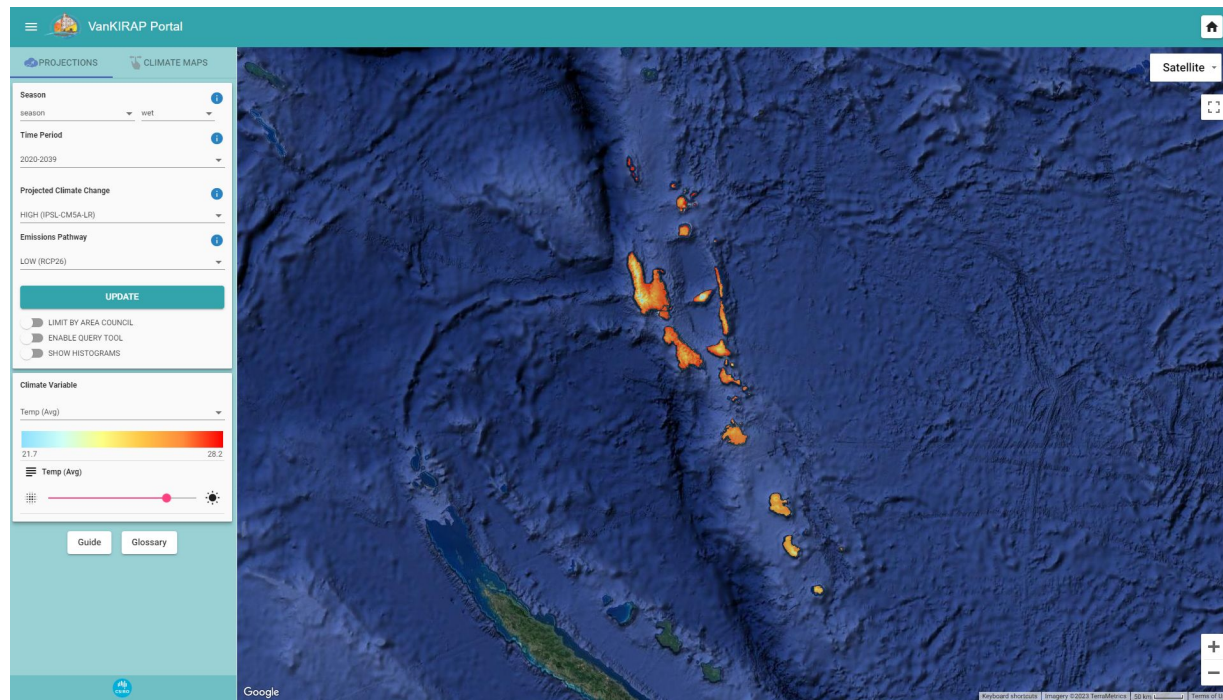


# VK Portal | Climate Data Viewer



## Updated Terminology

- Projections Tab to “Climate Maps”
- Period to “Time Period”
- Month to “Season”
- Climate Model to “Projected Climate Change”
- Experiment to “Emissions Pathway”
- Display Layer to “Climate Variable”



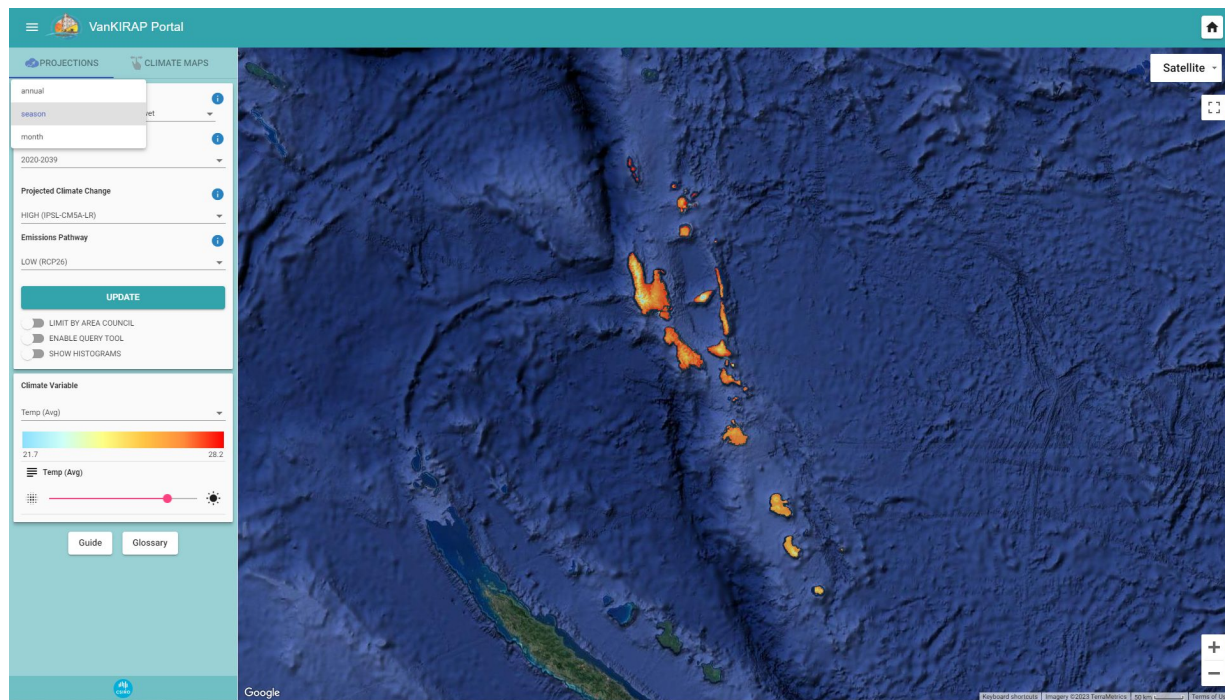


# VK Portal | Climate Data Viewer



## Updated Season Selector

- Initial selection of annual, season or month
- Subsequent selection for seasons - wet and dry
- Subsequent selection for months - standard list of months



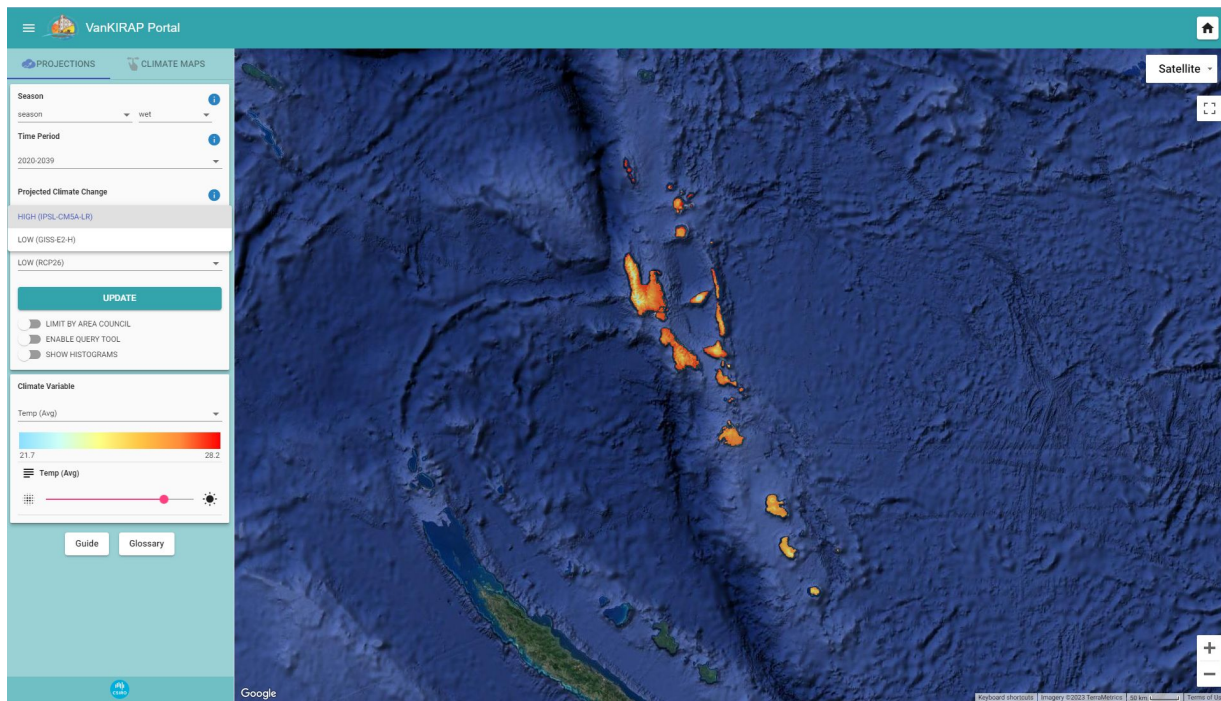


# VK Portal | Climate Data Viewer



## Updated Projected Climate Change

- Added terms for **High** (IPSL-CM5A-LR) and **Low** (GISS-E2-H)



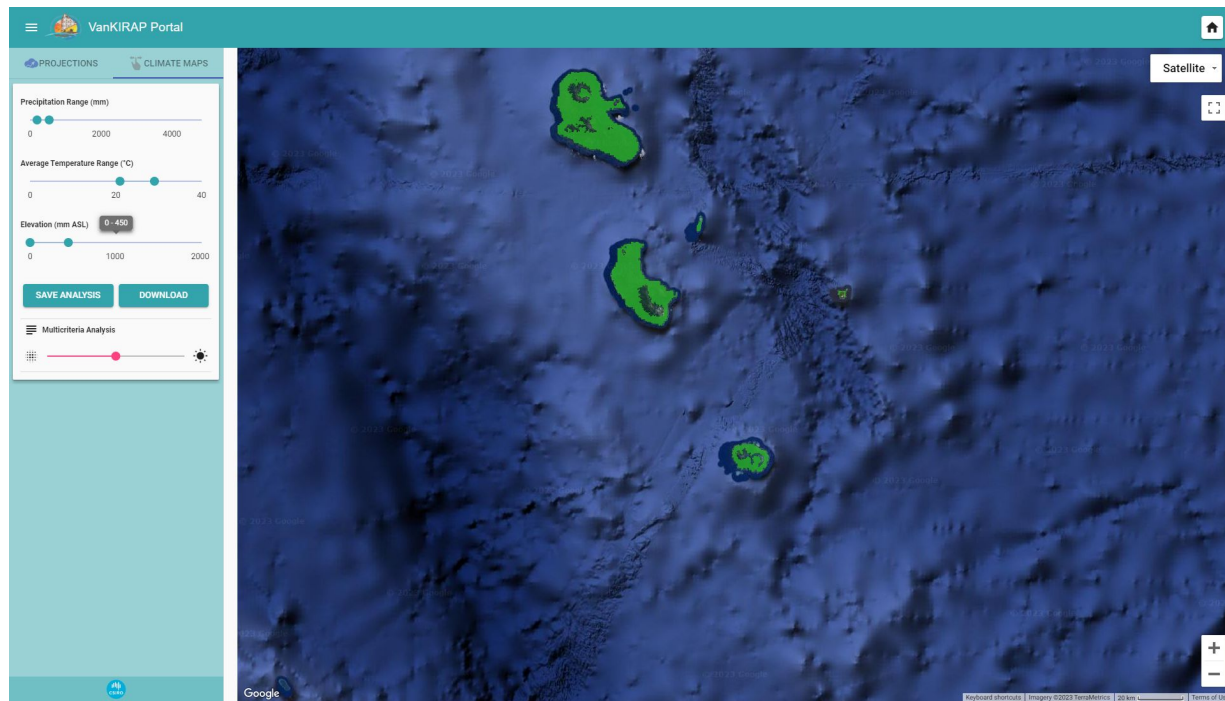


# VK Portal | Climate Data Viewer



## Updated Analysis Capability

- Addition of elevation parameter for multi criteria analysis

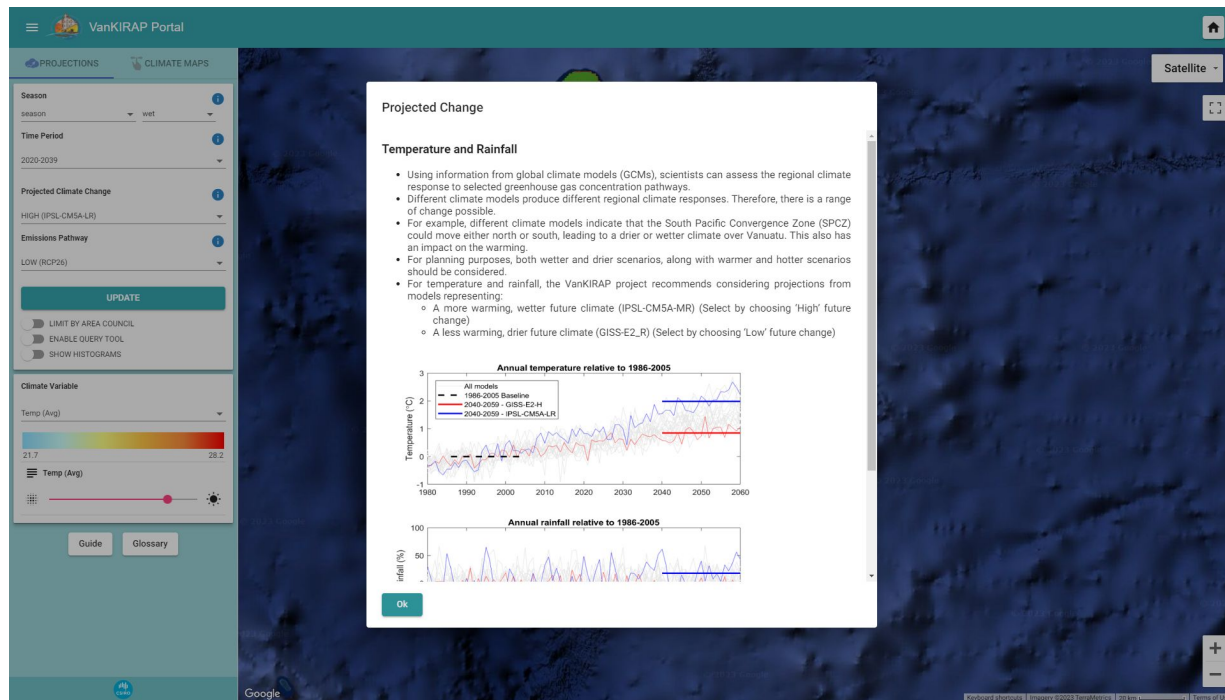




# VK Portal | Climate Data Viewer

## Updated Info Popups

- Season
- Time Period
- Projected Climate Change
- Emissions Pathway
- Note: Extensible for additional content including text and graphics.







# Agriculture Case Study

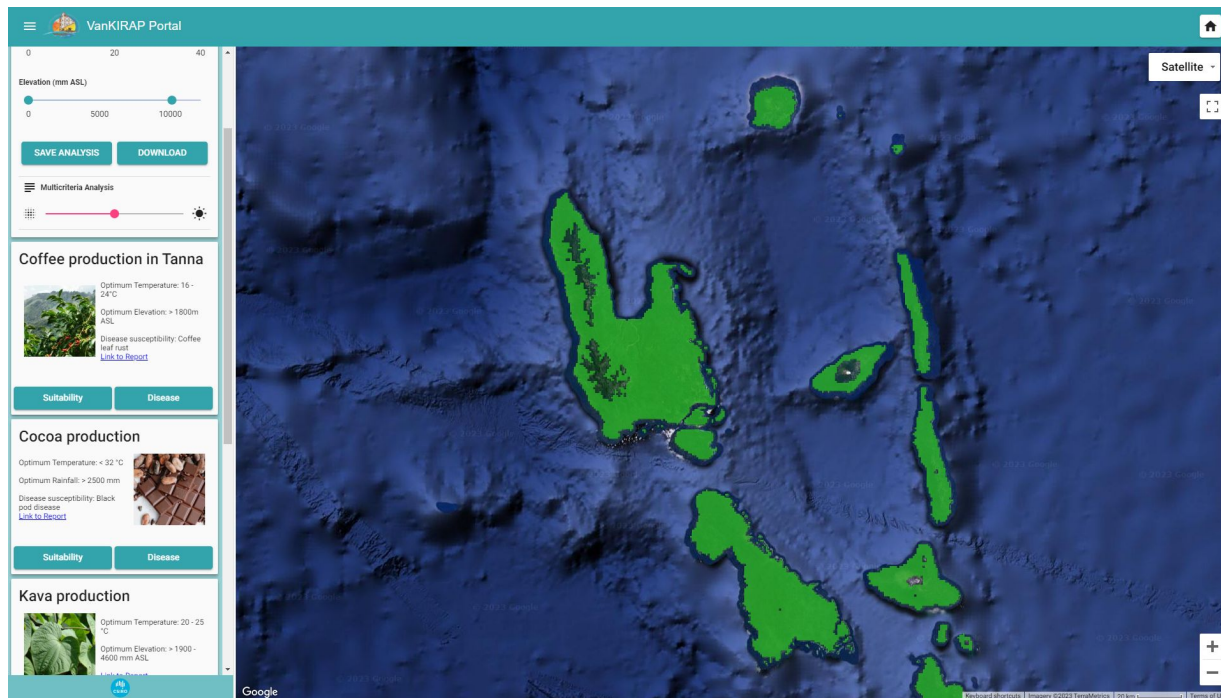
VK Portal 2.0



# VK Portal | Agriculture Case Study

## Addition of Key Crop Thresholds

- Addition of Coffee, Cocoa, Kava, Taro and Yam crop types
- Suitability Thresholds for each crop
- Disease Thresholds for selected crops
- Note: Threshold outputs to be reviewed





# Fisheries Case Study

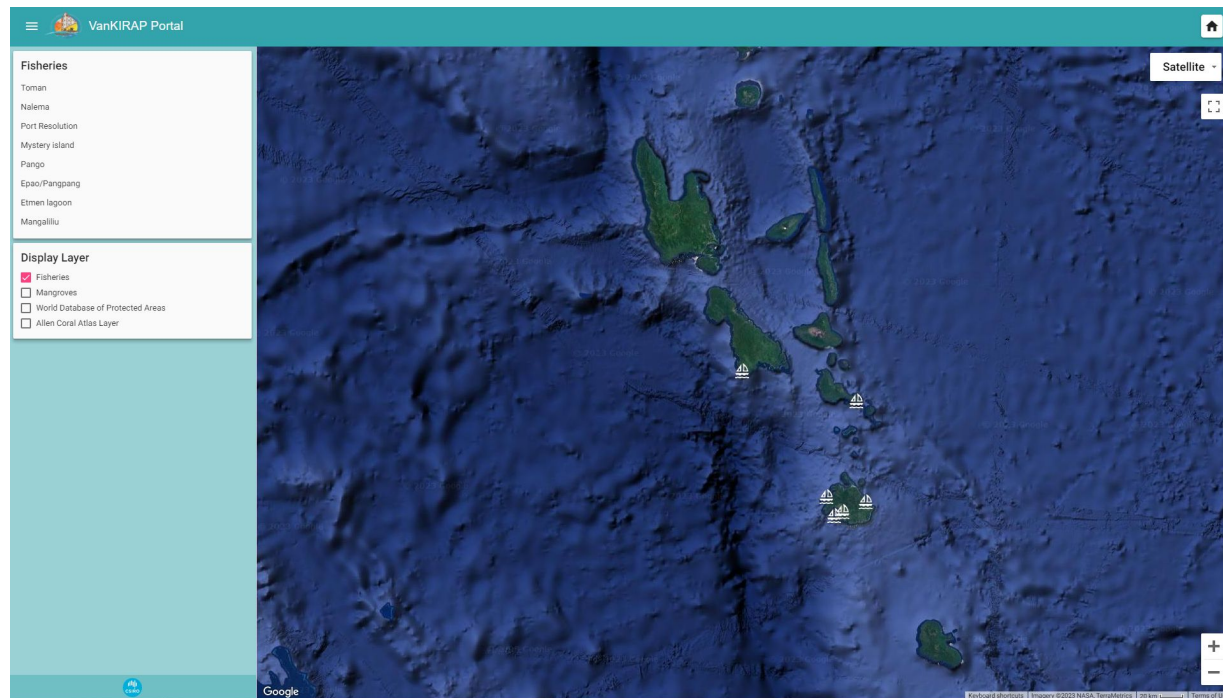
VK Portal 2.0



# VK Portal | Fisheries Case Study

## New Fisheries Case Study Application

- Key Points of Interest Visualisation and selector (top left panel)
- Allen Coral Atlas Layers - Benthic, Geomorphic and Reef





# VK Portal | Fisheries Case Study

## New Fisheries Case Study Application

- Mangrove Layer

The screenshot displays the VanKIRAP Portal interface. On the left, a sidebar contains a 'Fisheries' list with items: Toman, Nalema, Port Resolution, Mystery island, Pango, Epao/Pangpang, Etmen lagoon, and Mangalliu. Below this is a 'Display Layer' section with four options: 'Fisheries' (checked), 'Mangroves' (checked), 'World Database of Protected Areas' (checked), and 'Allen Coral Atlas Layer' (unchecked). The main map area shows a satellite view of the Toman region with a large green overlay. The map includes navigation controls like 'Satellite', zoom in (+), zoom out (-), and a home button. The Google logo is visible at the bottom center of the map area.



# VK Portal | Fisheries Case Study

## New Fisheries Case Study Application

- Protected Areas Layer

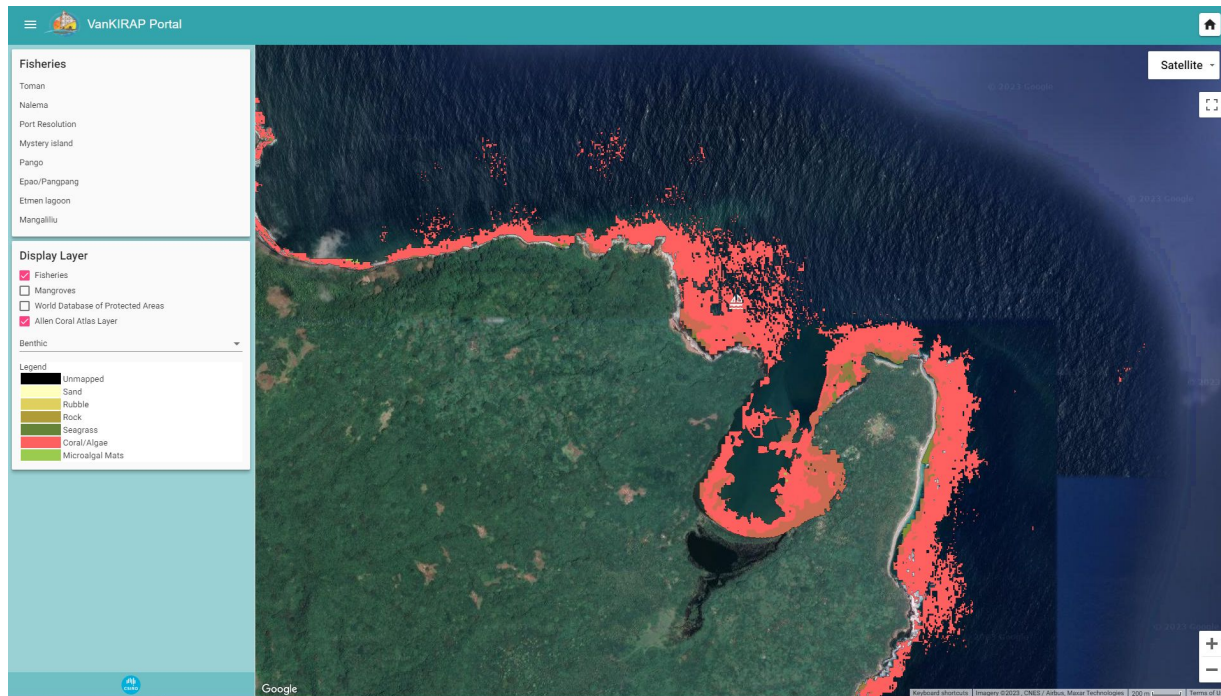
The screenshot displays the VanKIRAP Portal interface. On the left, there is a legend with two sections: 'Fisheries' and 'Display Layer'. The 'Fisheries' section lists several locations: Toman, Nalema, Port Resolution, Mystery Island, Pango, Epao/Pangiang, Etmen lagoon, and Mangalliu. The 'Display Layer' section includes checkboxes for 'Fisheries' (checked), 'Mangroves' (checked), 'World Database of Protected Areas' (checked), and 'Allen Coral Atlas Layer' (unchecked). The main map area shows a satellite view of a coastal region with several green polygons overlaid, indicating protected areas. The map is titled 'VanKIRAP Portal' at the top left and includes navigation controls like 'Satellite', 'Home', and zoom in/out buttons on the right. The Google logo is visible at the bottom left of the map area.



# VK Portal | Fisheries Case Study

## New Fisheries Case Study Application

- Allen Coral Atlas - Benthic Zone Classification





# VK Portal | Fisheries Case Study

## New Fisheries Case Study Application

- Allen Coral Atlas - Geomorphic Classification







# VK Portal | Fisheries Case Study

## New Fisheries Case Study Application

- Allen Coral Atlas - Reef Areas



**Thank you!**

