

tailOred System of Climate services for AgRiculture

User Manual - Web



EPINET Co.,Ltd.

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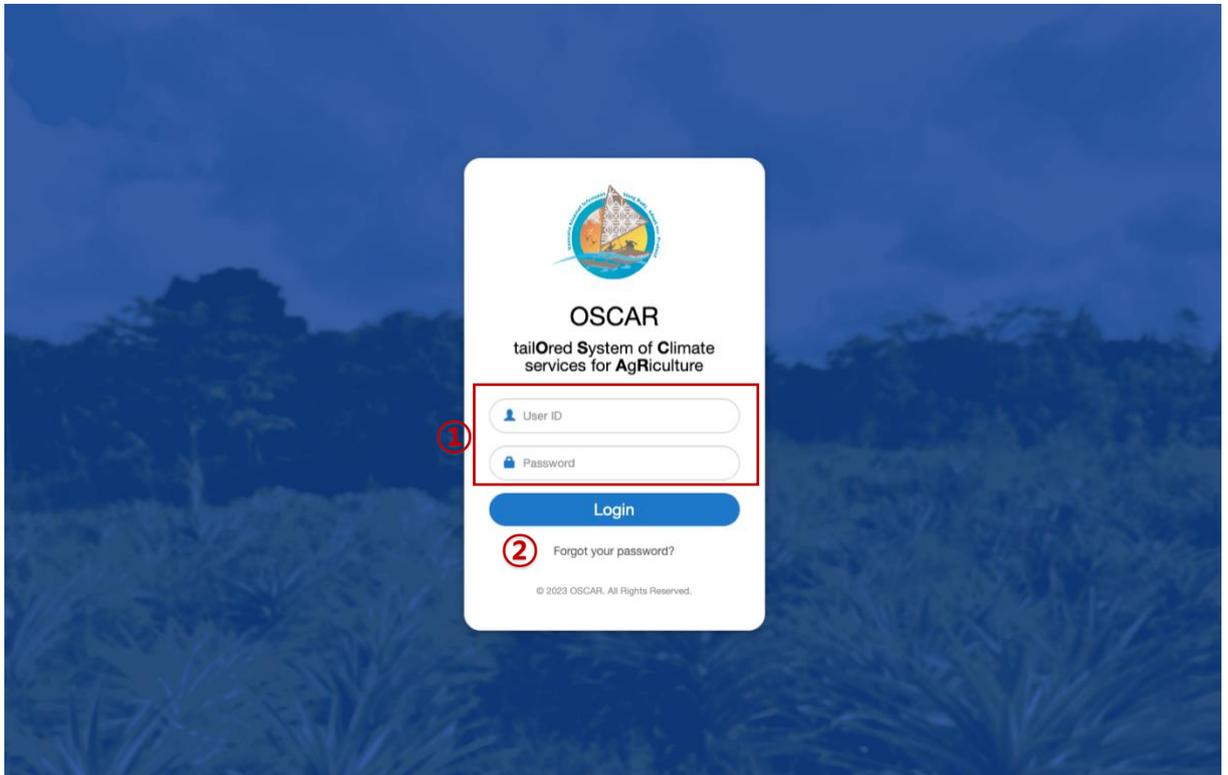
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1. LOGIN

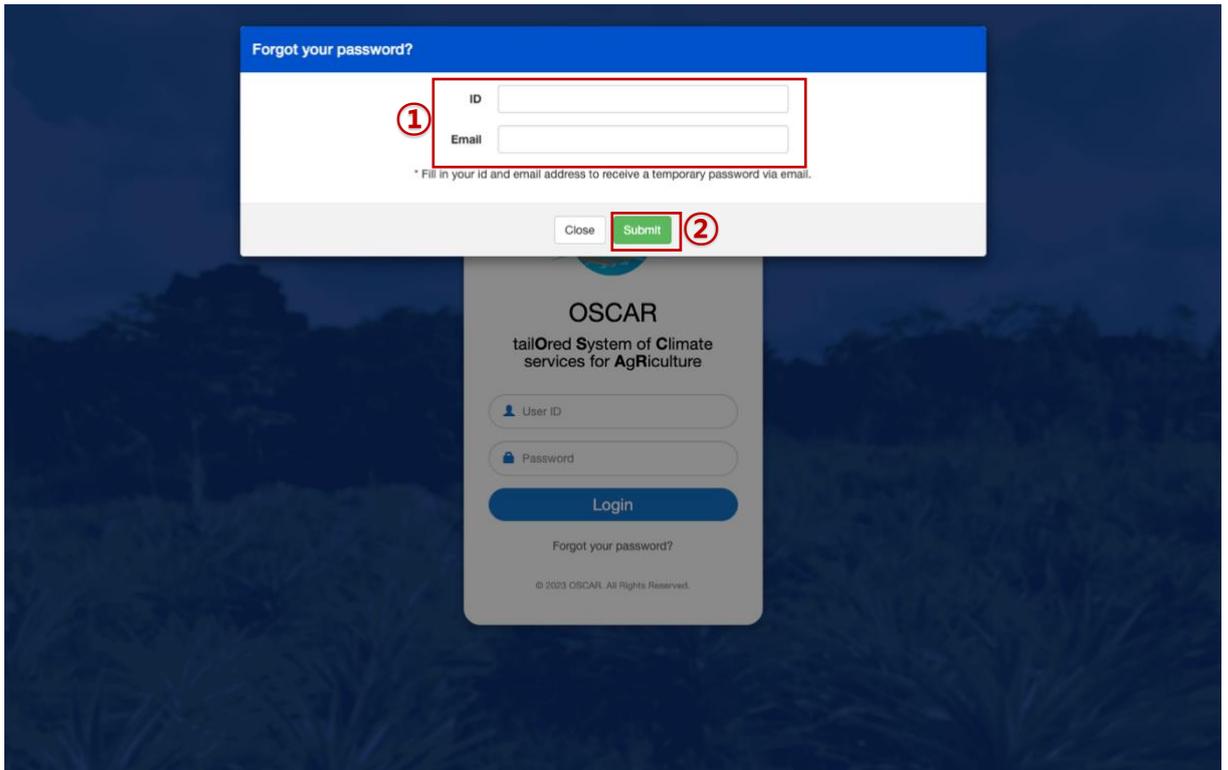
This is a login screen. Only authorized users can access the website.

Figure 1. Login



1. Enter ID and password.
2. This helps you reset your password.

Figure 2. Reset password

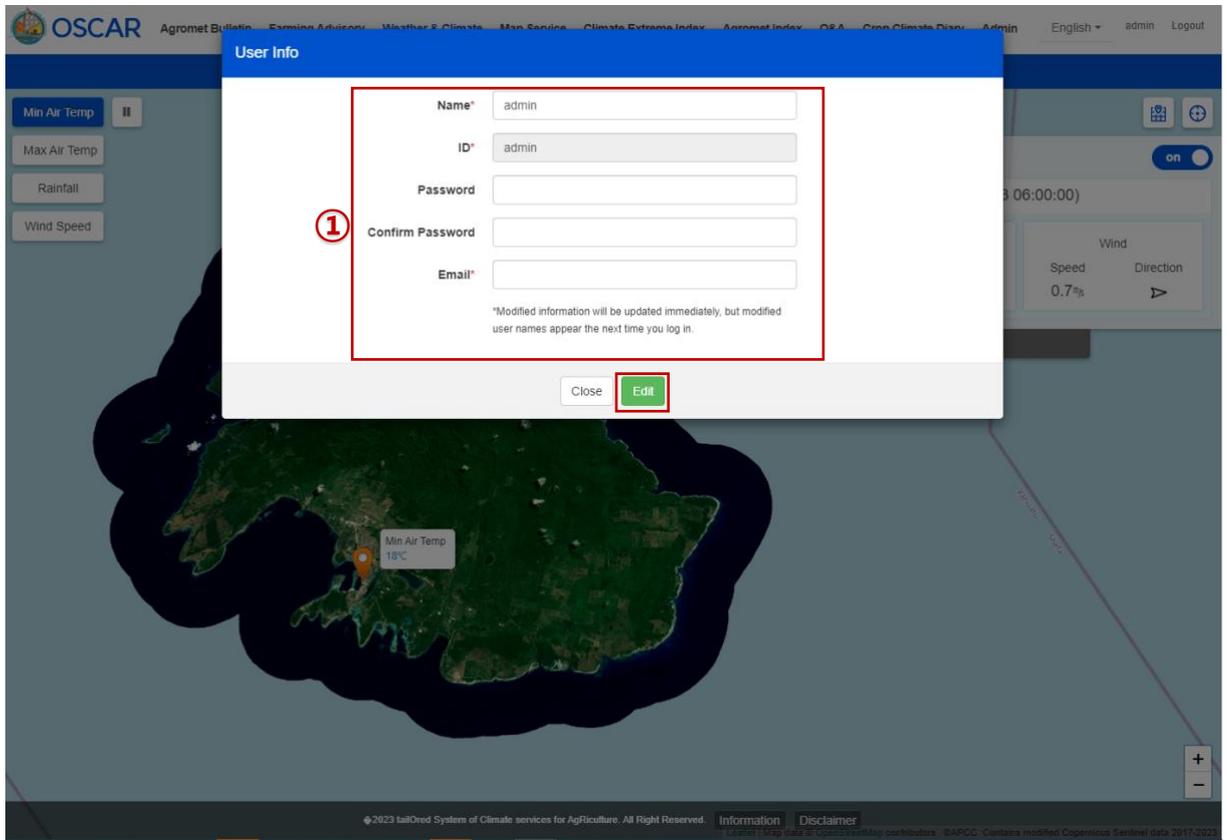


1. Enter ID and email.

2. If the information entered is consistent with the member's information, a temporary password will be sent to the email.

Clicking the user name on the menu opens this screen on user information.

Figure 3. Edit login user info

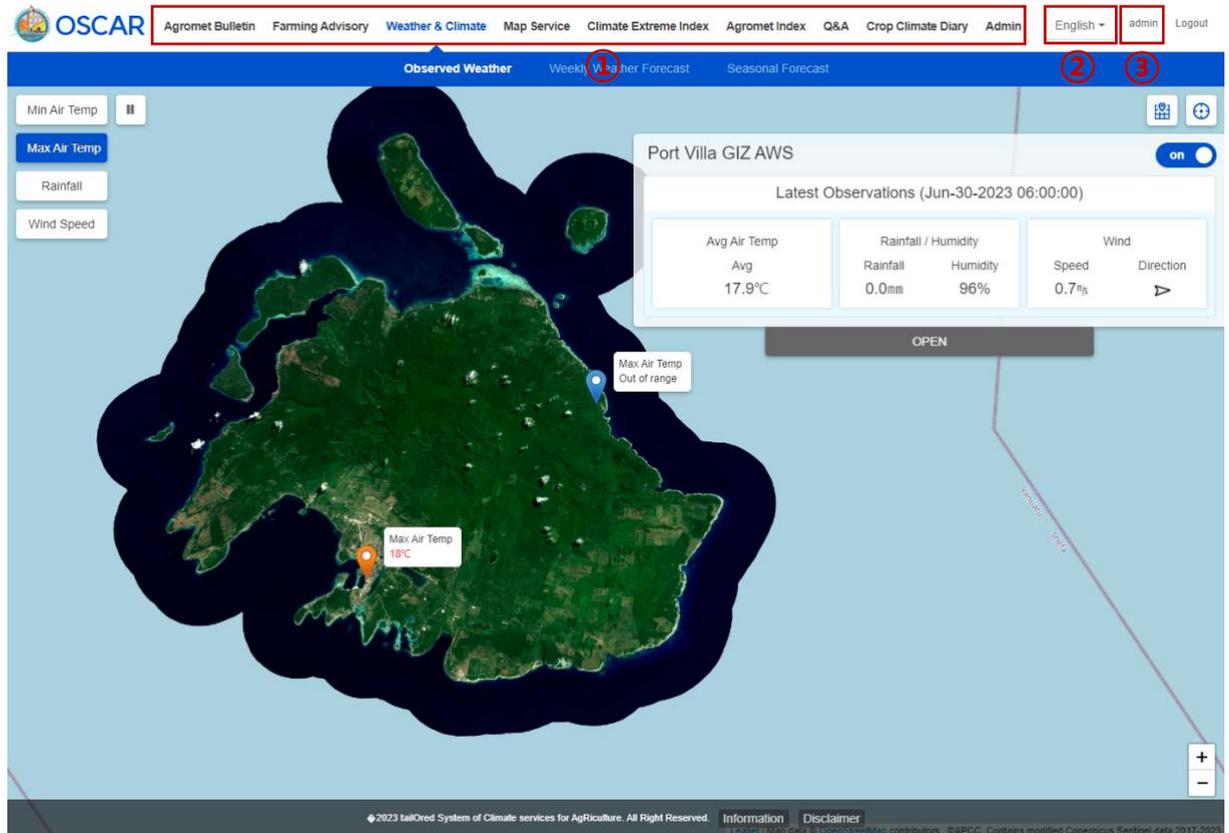


1. The information other than ID can be edited. The edited information will be applied immediately, but the user name will change only after re-login.

2. MAIN SCREEN

After login, you will move to this main screen. The Admin menu will be activated only if you login with an administrator account.

Figure 4. Main page



1. The VaCSA system has 9 top menus: Agromet Bulletin, Farming Advisory, Weather & Climate, Map Service, Climate Extreme Index, Q&A, Crop Climate Diary, and Admin; you can click one of the menus to open a sub-menu and move to a page.
2. You can change the language here.
3. This shows the name of the logged-in user, and you can search or edit user information after clicking it.
4. The Admin menu appears only when a user logs in with administrator authority.

3. COMMON FUNCTIONS

3.1. Agromet Bulletin

3.1.1. Monthly Agromet Bulletin

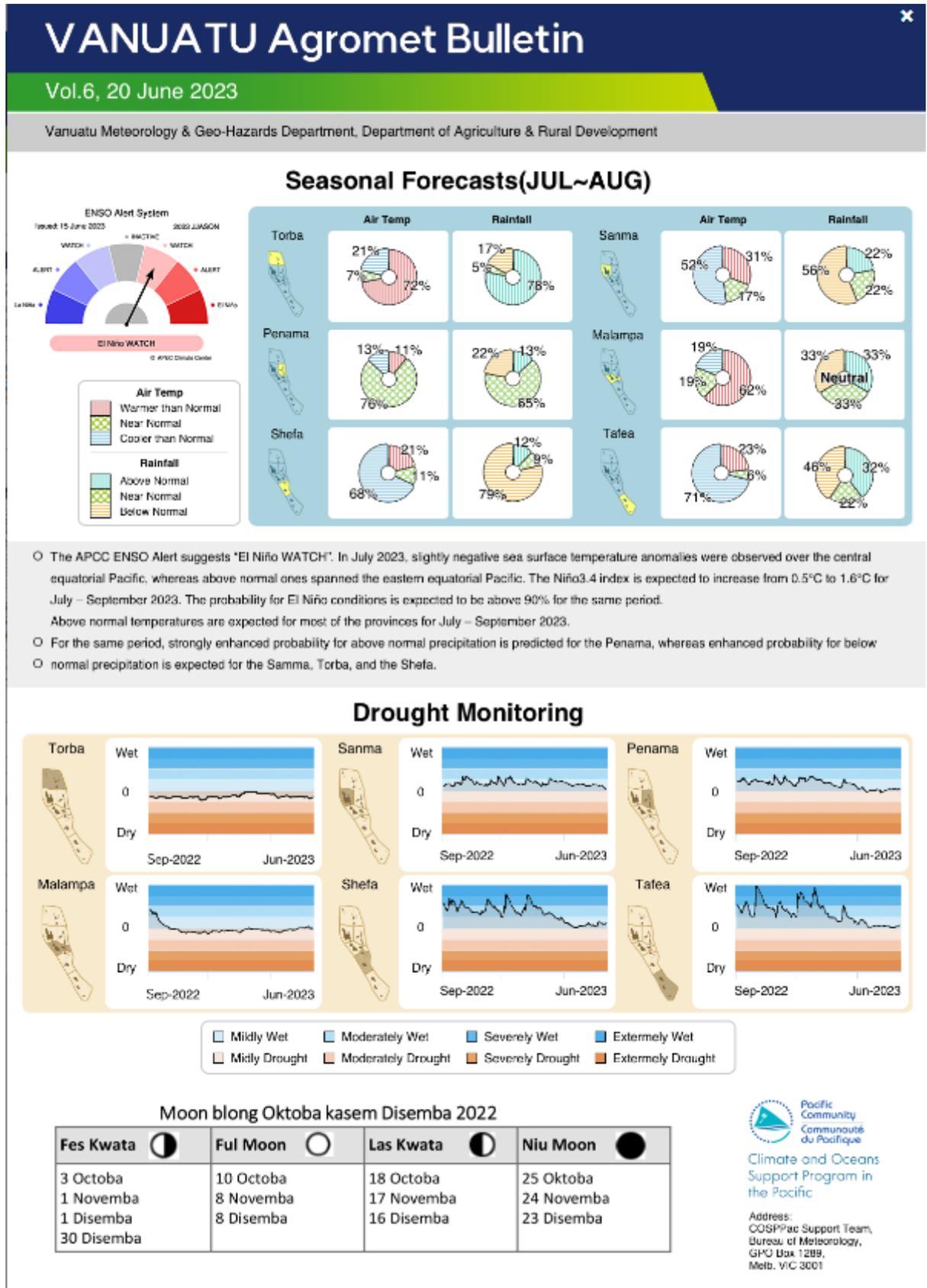
It shows monthly seasonal forecasts of Agromet Bulletin.

Figure 3. Agromet Bulletin

1. Clicking the button shows the front side of the latest Agromet Bulletin.
2. Clicking the button shows the back side of the latest Agromet Bulletin.
3. Clicking the button enables downloading the latest Agromet Bulletin.
4. Clicking the button enables downloading monthly Agromet Bulletin of the year.
5. This is a description on the seasonal forecast of each island.
6. This is a description on ENSO.

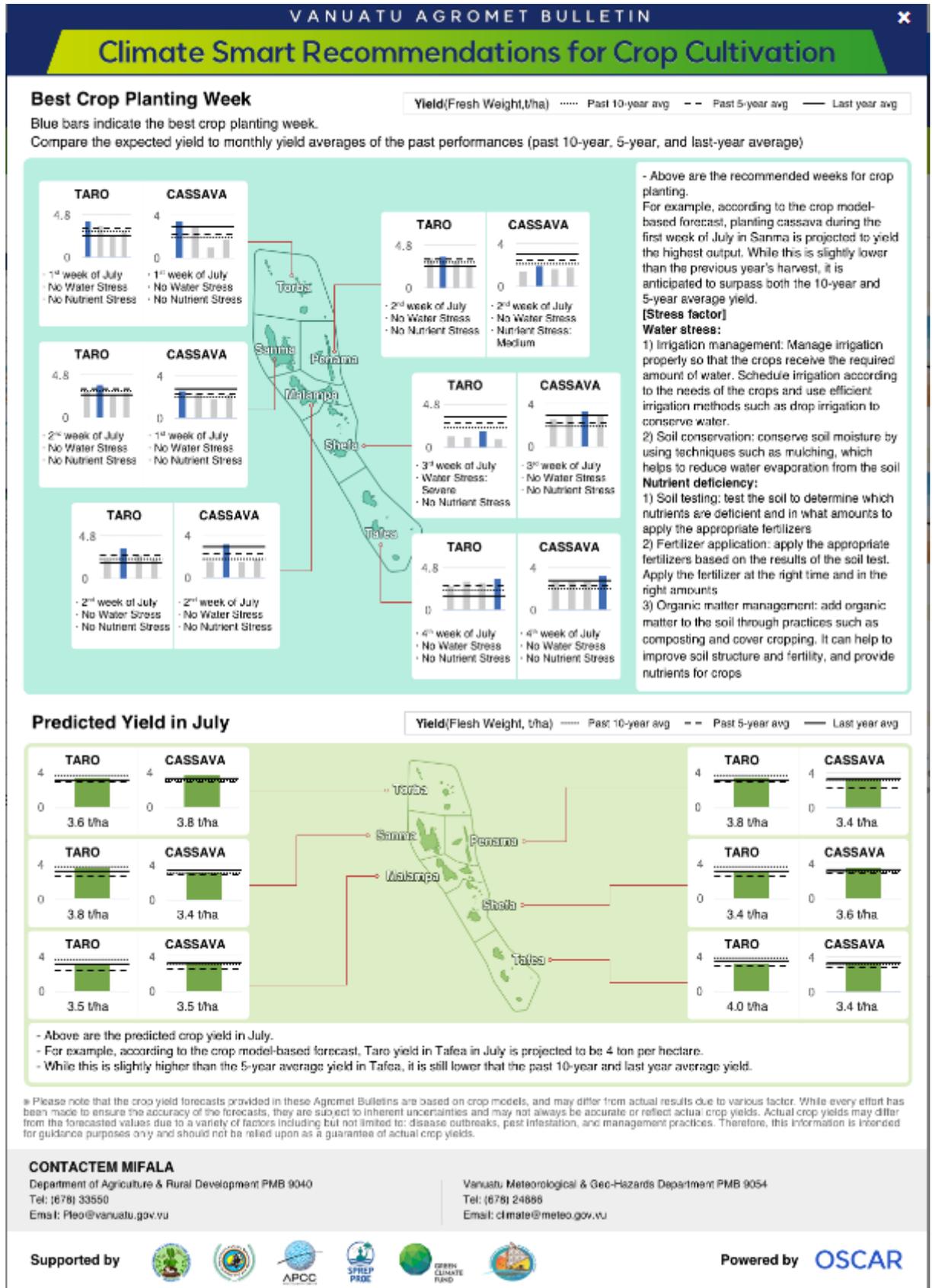
It is a front side of monthly Agromet Bulletin.

Figure 6. Agromet Bulletin - Front



It is a back side of monthly Agromet Bulletin.

Figure 7. Agromet Bulletin - Back



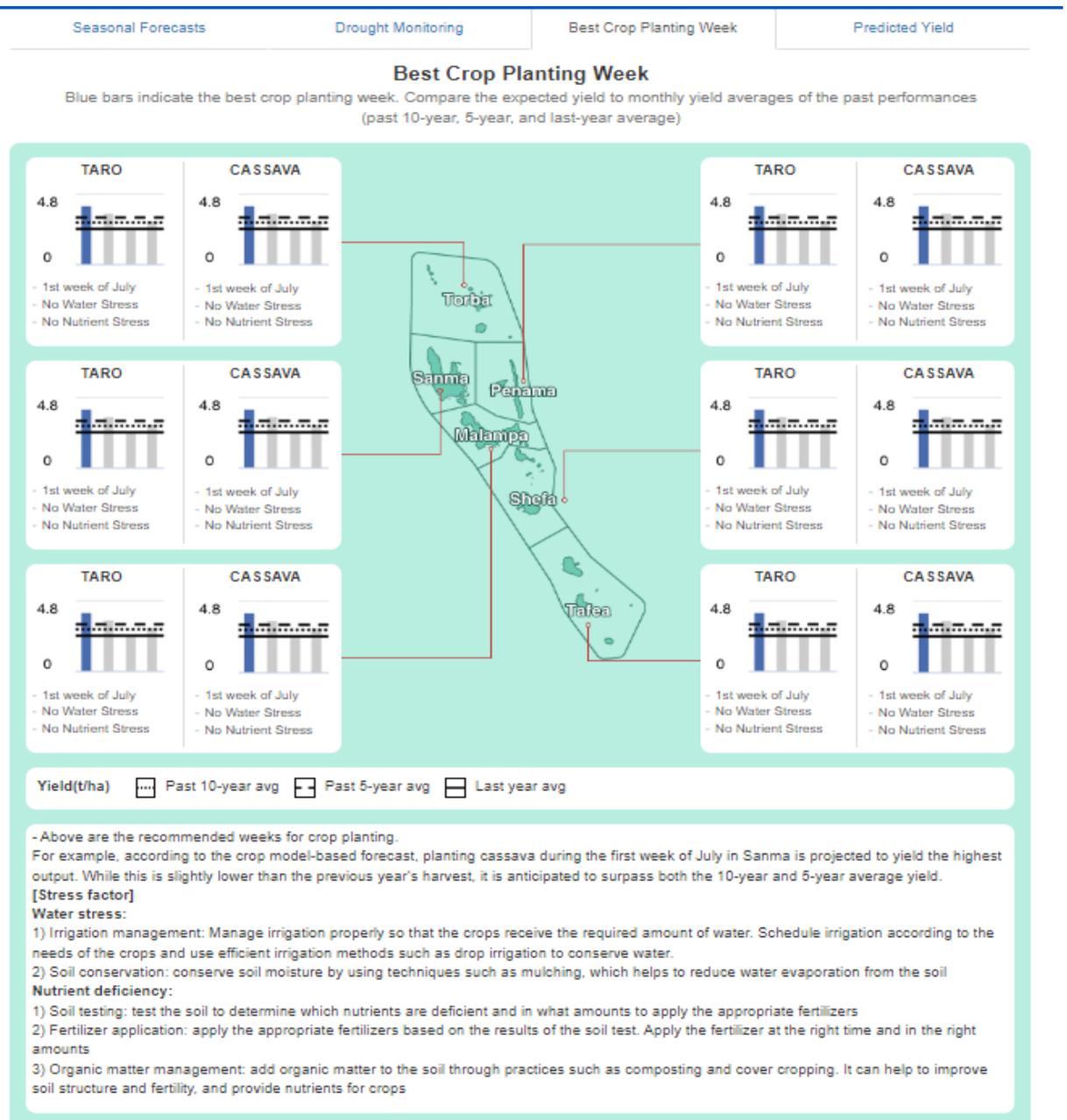
It shows drought monitoring of monthly Agromet bulletin.

Figure 8. Agromet Bulletin - Drought Monitoring

The screenshot displays the 'VANUATU Agromet Bulletin' website interface. The main header includes the OSCAR logo and navigation links such as 'Agromet Bulletin', 'Farming Advisory', 'Weather & Climate', 'Map Service', 'Climate Extreme Index', 'Agromet Index', 'Q&A', 'Crop Climate Diary', and 'Admin'. The page title is 'VANUATU Agromet Bulletin Volume 6, June 2023'. Below the header, there are four tabs: 'Seasonal Forecasts', 'Drought Monitoring', 'Best Crop Planting Week', and 'Predicted Yield'. The 'Drought Monitoring' tab is active, showing a grid of six maps for the Torba province, arranged in two rows and three columns. Each map displays a timeline from 'Sep-2022' to 'Jun-2023' with a color-coded bar indicating moisture levels. A legend below the maps defines the color scale: Mildly Wet (light blue), Moderately Wet (medium blue), Severely Wet (dark blue), Extremely Wet (darkest blue), Mildly Drought (light orange), Moderately Drought (medium orange), Severely Drought (dark orange), and Extremely Drought (darkest orange). A 'Download' button is visible under the 'Latest Bulletin' section. A disclaimer at the bottom of the page states: 'Please note that the crop yield forecasts provided in these Agromet Bulletins are based on crop models, and may differ from actual results due to various factor. While every effort has been made to ensure the accuracy of the forecasts, they are subject to inherent uncertainties and may not always be accurate or reflect actual crop yields. Actual crop yields may differ from the forecasted values due to a variety of factors including but not limited to: disease outbreaks, pest infestation, and management practices. Therefore, this information is intended for guidance purposes only and should not be relied upon as a guarantee of actual crop yields.'

It shows the best crop planting week of monthly Agromet bulletin.

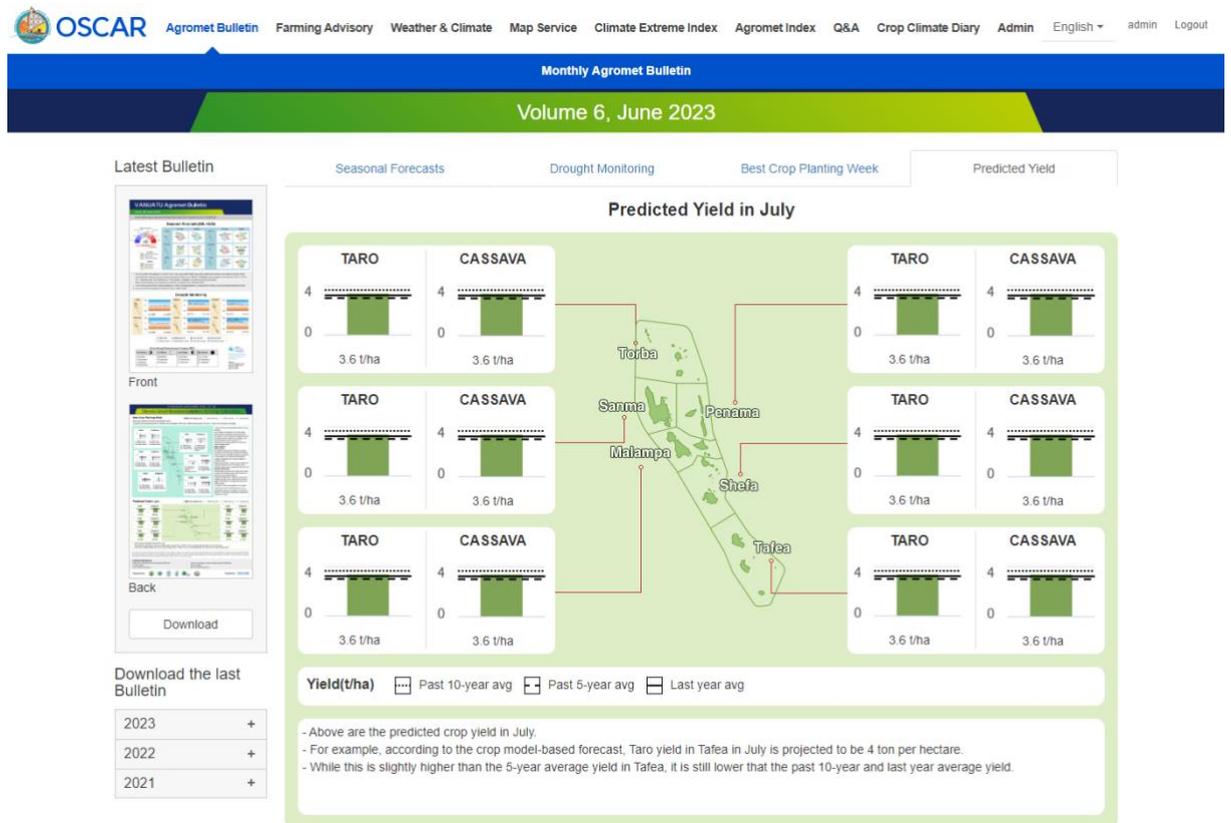
Figure 9. Agromet Bulletin - Best Crop Planting Week



⊗ Please note that the crop yield forecasts provided in these Agromet Bulletins are based on crop models, and may differ from actual results due to various factor. While every effort has been made to ensure the accuracy of the forecasts, they are subject to inherent uncertainties and may not always be accurate or reflect actual crop yields. Actual crop yields may differ from the forecasted values due to a variety of factors including but not limited to: disease outbreaks, pest infestation, and management practices. Therefore, this information is intended for guidance purposes only and should not be relied upon as a guarantee of actual crop yields.

It shows predicted yields of monthly Agromet Bulletin.

Figure 10. Agromet Bulletin - Predicted Yield

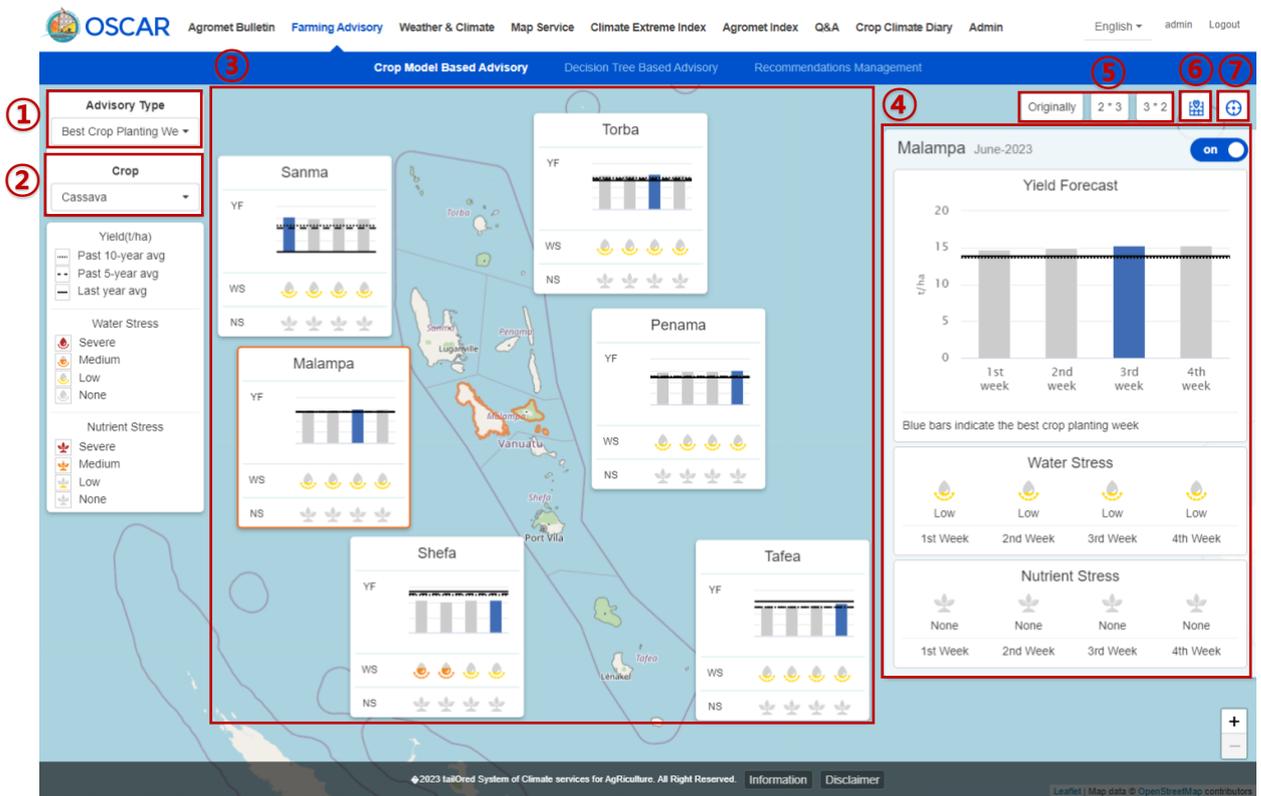


3.2. Farming Advisory

3.2.1. Crop Model Based Advisory

This service is for predicting an optimal time to sow a crop.

Figure 11. Crop Model Based Advisory – Best Crop Planting Week

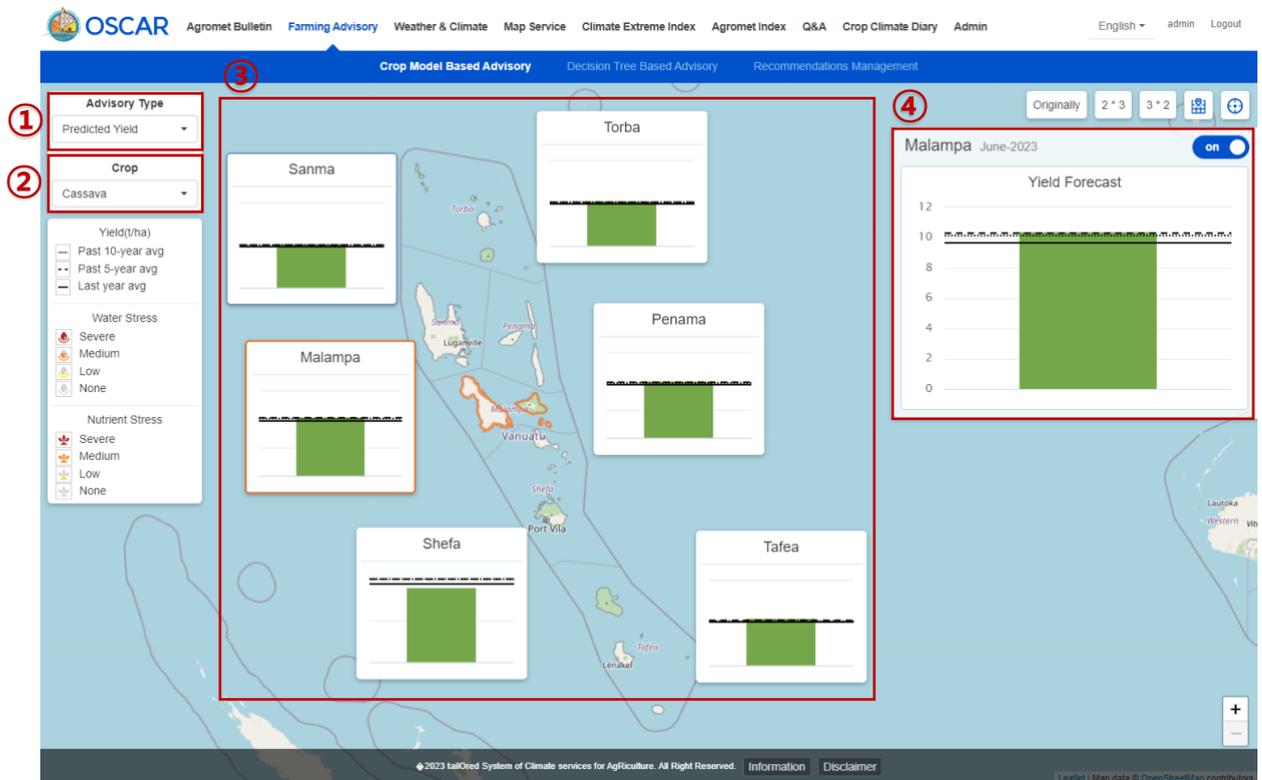


1. Choose an advisory type.
2. Select a crop.
3. Clicking an island or graph on the map shows a result in box number ④.
4. A result from a crop model is used for comparison of productivity against that of each major island in the past (last year, the last 5 years and the last 10 years) to be presented in a graph.
5. Click this button to change the arrangement of the graph in box number ③.
6. Click this to move to the center of the map.
7. Click this to move to a place closest to the current location and see information.

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This service is for the yield forecast.

Figure 12. Crop Model Based Advisory – Predicted Yield

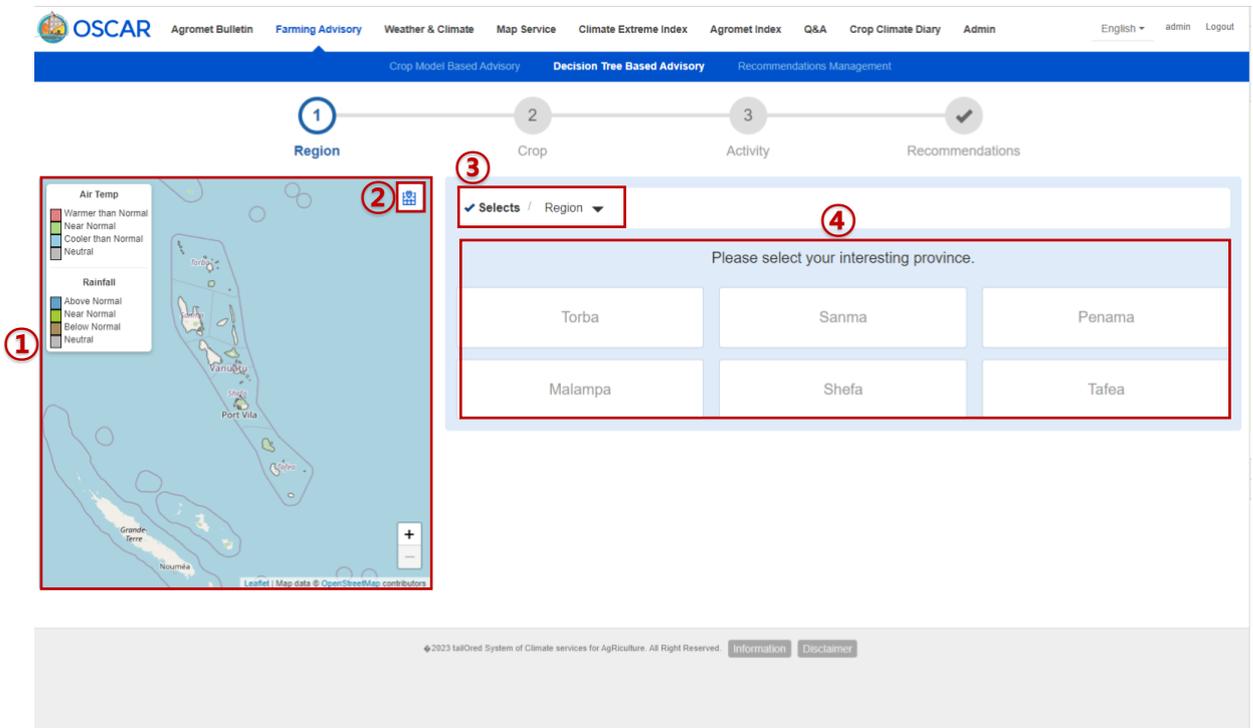


1. Choose an advisory type.
2. Select a crop.
3. Clicking an island or graph on the map shows a result in box number ④.
4. A result from a crop model is used for comparison of yield against that of each major island in the past (last year, the last 5 years and the last 10 years) to be presented in a graph.

3.2.2. Decision Tree Based Advisory

At this step, you will select an island to see a farming decision-making recommendation.

Figure 13. Decision Tree Based Advisory – Region Selection



1. Click an island on the map or choose options in boxes ③ and ④ to move to the next page.
2. Click this to move to the center of the map.

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At this step, you will select a crop to see a farming decision-making recommendation.

Figure 14. Decision Tree Based Advisory – Crop Selection

The screenshot displays the OSCAR web application interface for the Decision Tree Based Advisory system. The navigation bar includes links for Agromet Bulletin, Farming Advisory, Weather & Climate, Map Service, Climate Extreme Index, Agromet Index, Q&A, Crop Climate Diary, and Admin. The main content area shows a progress bar with four steps: 1. Region, 2. Crop, 3. Activity, and 4. Recommendations. The current step is 'Crop', which is highlighted with a blue bar. Below the progress bar, there are two main sections. On the left, a map of the Pacific region is shown with a legend for Air Temp (Warmer than Normal, Near Normal, Cooler than Normal, Neutral) and Rainfall (Above Normal, Near Normal, Below Normal, Neutral). A red box labeled '1' highlights the map, and a red box labeled '2' highlights a 'Torba' data popup showing Temperature (Cooler 86%, Warmer 12%, Near Normal 2%) and Rainfall (Above Normal 33%, Near Normal 33%, Below Normal 24%, Neutral 4%). On the right, a 'Selects' dropdown menu is shown with 'Torba' selected. A red box labeled '3' highlights the dropdown, and a red box labeled '4' highlights the 'Cassava' option. Below the dropdown, a table of crop recommendations is displayed, with a red box labeled '5' highlighting the table. The table contains the following crops: Cassava, Island Taro, Kumala, Yam, Banana, Tomato, and Kava. At the bottom of the page, there is a footer with the text '©2023 tailOred System of Climate services for AgRiculture. All Right Reserved.' and links for 'Information' and 'Disclaimer'.

1. Click an island on the map or choose one in dropdown ③.
2. Click this to move to the center of the map.
3. Select options in boxes ④ and ⑤ to move to the next page.

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At this step, you will select an activity to see a farming decision-making recommendation.

Figure 15. Decision Tree Based Advisory – Activity Selection

The screenshot displays the OSCAR Decision Tree Based Advisory interface. The navigation bar includes links for Agromet Bulletin, Farming Advisory, Weather & Climate, Map Service, Climate Extreme Index, Agromet Index, Q&A, Crop Climate Diary, and Admin. The progress indicator shows four steps: 1. Region, 2. Crop, 3. Activity, and 4. Recommendations. The map shows Vanuatu with a legend for Air Temp and Rainfall. The selection panel shows the following data:

Category	Option	Percentage
Temperature	Warmer than Normal	12%
	Cooler than Normal	2%
	Neutral	86%
Rainfall	Above Normal	33%
	Near Normal	35%
	Below Normal	28%
	Neutral	4%

The selection panel includes dropdowns for Region (Torba), Crop (Island Taro), and Activity (Cultivar selection). Below these are six activity options: Cultivar selection, Land preparation, Planting, Nutrient management, Pests weed management, and Harvest.

1. Click an island on the map or select one in dropdown ③.
2. Click this to move to the center of the map.
3. Select a crop in dropdown ④.
4. Select options in boxes ⑤ and ⑥ to move to the next page.

Seasonal forecast information is used to provide optimal farming decision-making recommendations.

Figure 16. Decision Tree Based Advisory – Recommendations

1. Click an island on the map or select one in dropdown ③.
2. Click this to move to the center of the map.
3. Choose a crop in dropdown ④.
4. Choose an activity in dropdown ⑤.
5. Box ⑥ shows a recommended farming decision regarding selected island, crop and activity (the recommendation varies depending on selected islands, crops or activities).
6. Clicking button ⑦ will show an alternative recommendation on farming decision.
8. Click this to move back to the first page.

This is an alternative recommendation on farming decision.

Figure 17. Decision Tree Based Advisory – Alternative Recommendations

✓ Selects / Torba ▼ / Island Taro ▼ / Cultivar selection ▼ / Recommendations

Drier(Rainfall) :

- ▶ Plant taro only if irrigation is available or if agroforestry protects severe drought condition (may include swamps and spots with consistent water source)
- ▶ If irrigation is not available, switch to drought-resistant crops such as taro fiji, yam, kumala, or manioc
- ▶ Planting material will be difficult to find during drought; Farmers are advised to set up their own nurseries to supply planting material or to store planting material for late planting after drought times
- ▶ local prices for taro may be higher during drought times due to shortage of supply

Cooler(Air Temp) :

- ▶ Ideal for a wide variety of cultivars but cultivation will depend on farmers preference and market demands.
- ▶ Planting material selection: select healthy suckers free of pests and disease with 3-4 leaves.
- ▶ Variety selection: Varieties like Taloa, Taloes, and Talo Imaroa are known for their adaptability to cooler conditions.
- Tanna Taro: Tanna Taro is another cultivar that is well-suited for cooler conditions.

Santo is a versatile taro cultivar that can grow well in various climatic conditions, including cooler months

Close

Wetter(Rainfall) :

- ▶ The size of corms and overall yield both increase in wet conditions, with individual corms weighing 1 to 3 kg, while increased supply may lead to lower market price

Normal :

- ▶ Choose depending on target market and demand, and available planting material (Available varieties: Sakius, Tarapatan, Alkat)

Hotter(Air Temp) :

- ▶ Agroforestry can improve the resilience of agricultural production to current climate variability as well as long-term climate change through the use of trees for intensification, diversification and buffering of farming systems; The use of agroforestry system can help to act as buffering strips for cooling air temperature for crops
- ▶ Plant heat and sun tolerant varieties of taro like Navia (*Alocasia macrorrhizos*) and taro with small leaves, and leaves pointed down away from the sun (Use of mulches would also be advisable)

3.2.3. Decision Tree Based Advisory

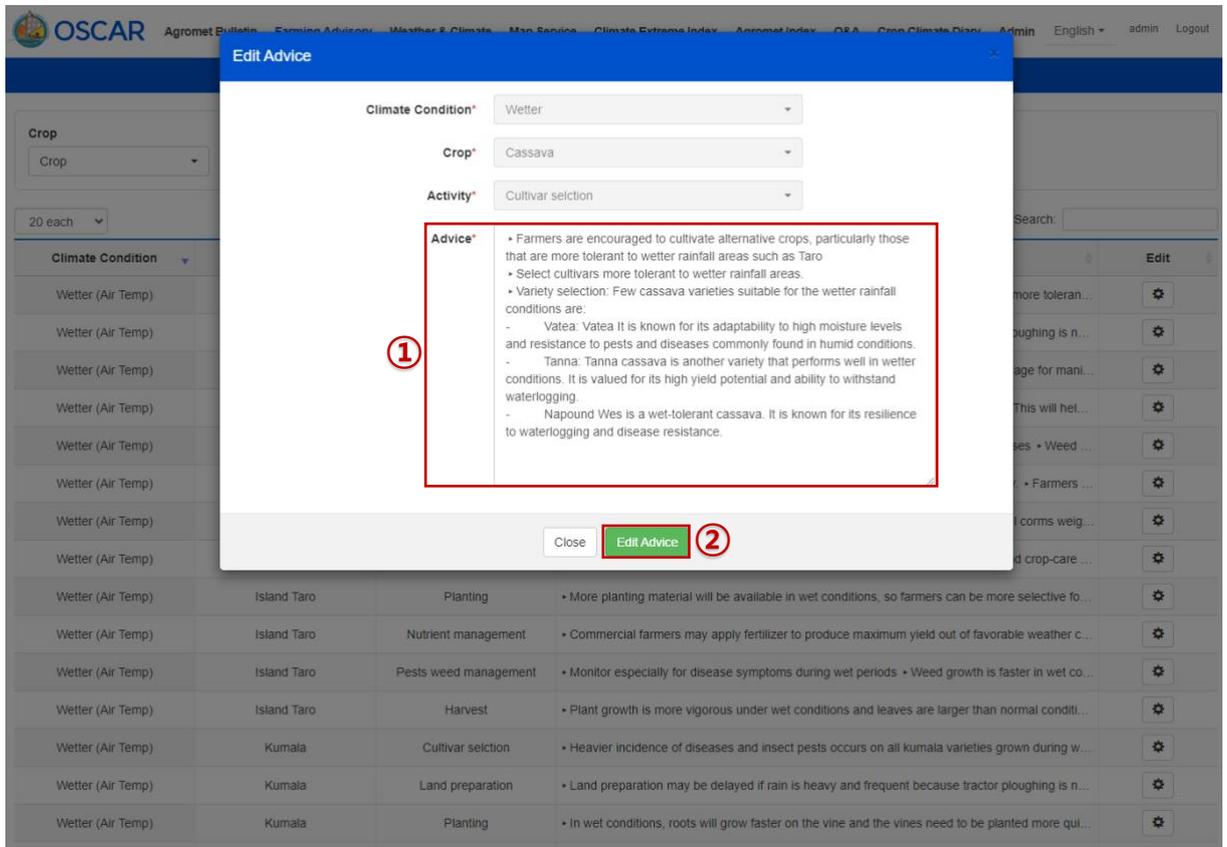
This service is for editing a recommendation on farming decision.

Figure 18. Recommendations Management list

1. Select a crop and activity in box ① and click Search to see a recommended farming decision.
2. You can choose to list the result in 20 items, 50 items or 100 items.
3. You can type in text what you want to search.
4. Click button ④ to open a window where you can edit the information.

On this page, you can edit a recommended farming decision.

Figure 19. Recommendations Management edit



1. You can edit the advice on farming decision.

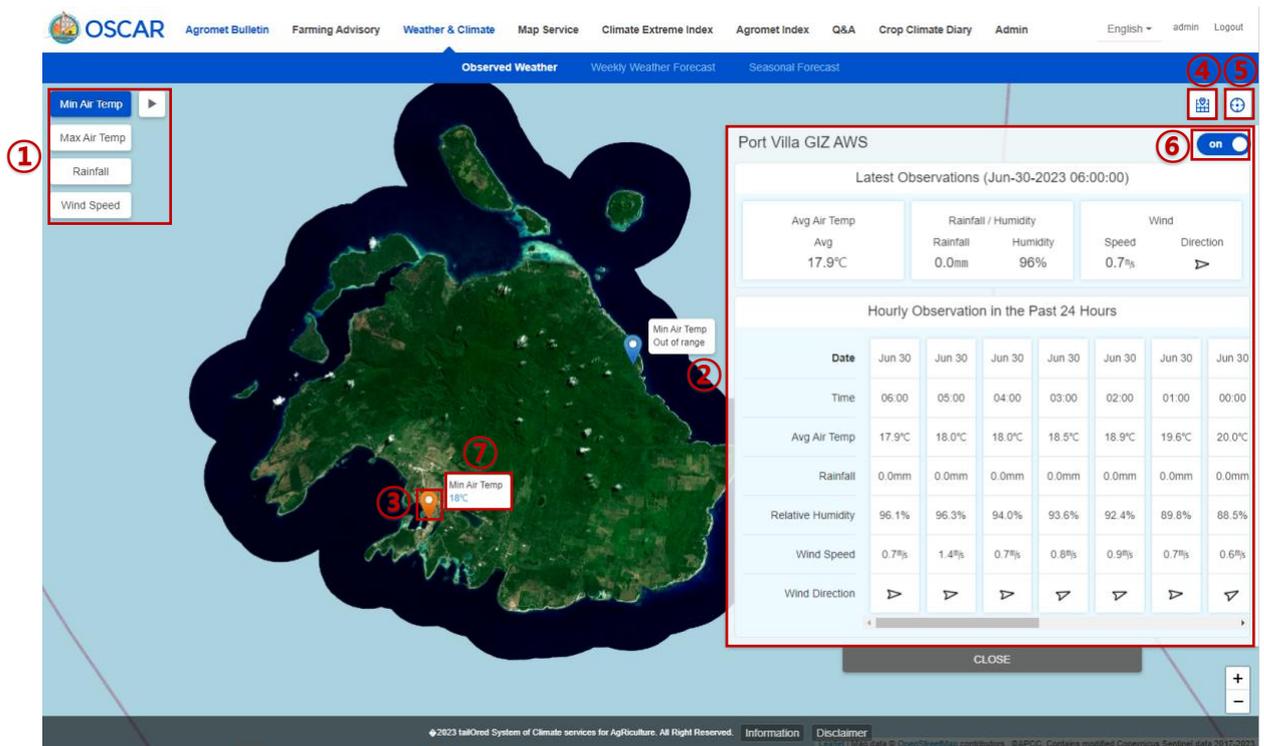
2. Click this to save an edited advice on farming decision.

3.3. Weather & Climate

3.3.1. Observed Weather

Today's weather information service is provided for each observation location.

Figure 20. Observed Weather

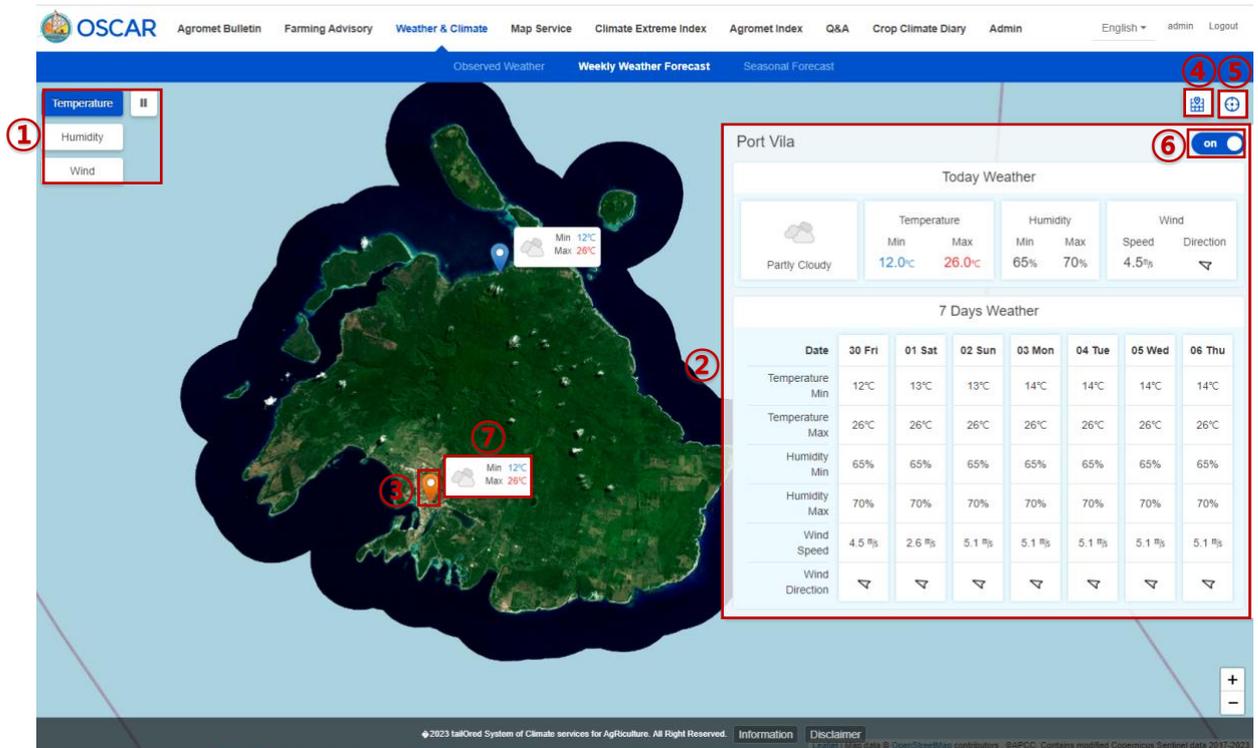


1. Clicking the buttons will show information in ⑦. No clicking will show information in automatic rotation.
2. The weather information on the marker's observation location is shown per time.
3. Clicking a marker will show information of the marker's location in ②.
4. Click this to move to the center of the map.
5. Click this to move to a place closest to the current location and see information.
6. Clicking the button will hide the window. Clicking it again will open the window back.

3.3.2. Weekly Weather Forecast

This service is for the weekly weather forecast.

Figure 21. Weekly Weather Forecast

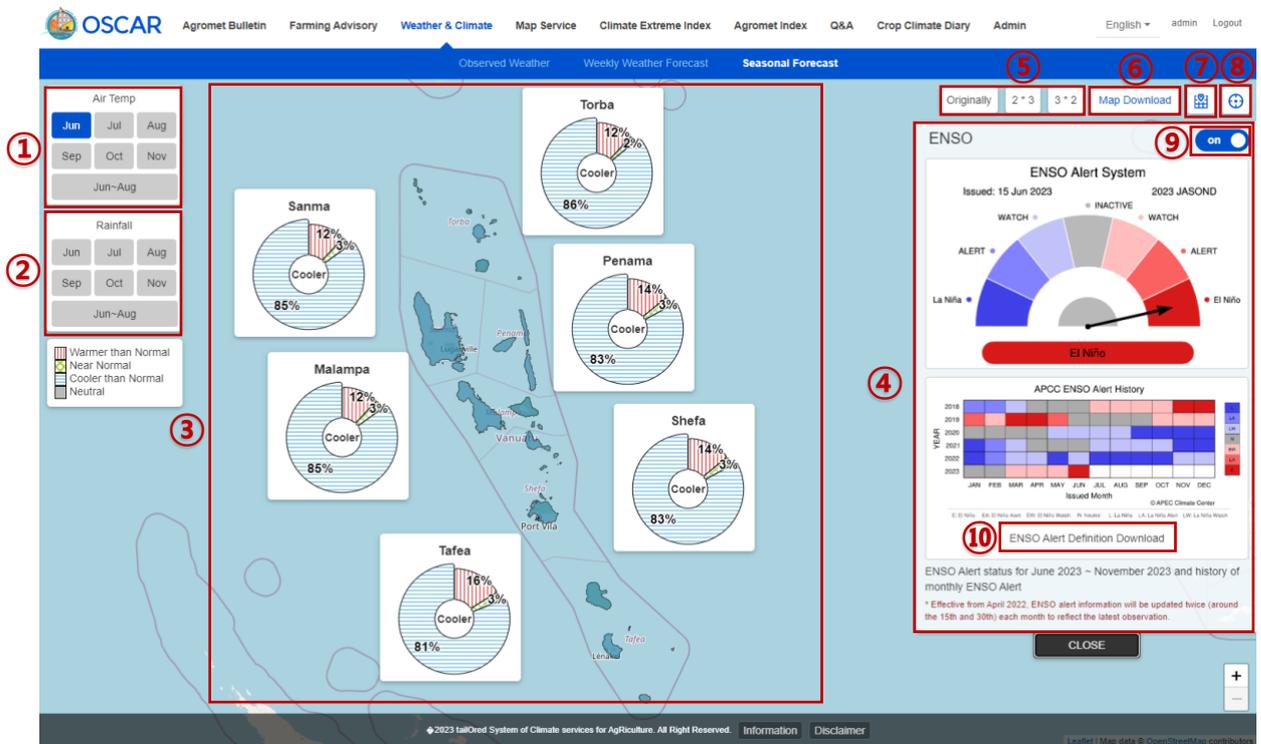


1. Clicking the buttons will show information in ⑦. No clicking will display information in automatic rotation.
2. The weather information of the marker's observation location is shown per time.
3. Clicking the marker will show information of the marker's location in ②
4. Click this to move to the center of the map.
5. Click this to move to a place closest to the current location and see information.
6. Clicking the button will hide the window. Clicking it again will open the window back.

3.3.3. Seasonal Forecast

This service is for the seasonal forecast.

Figure 22. Seasonal Forecast



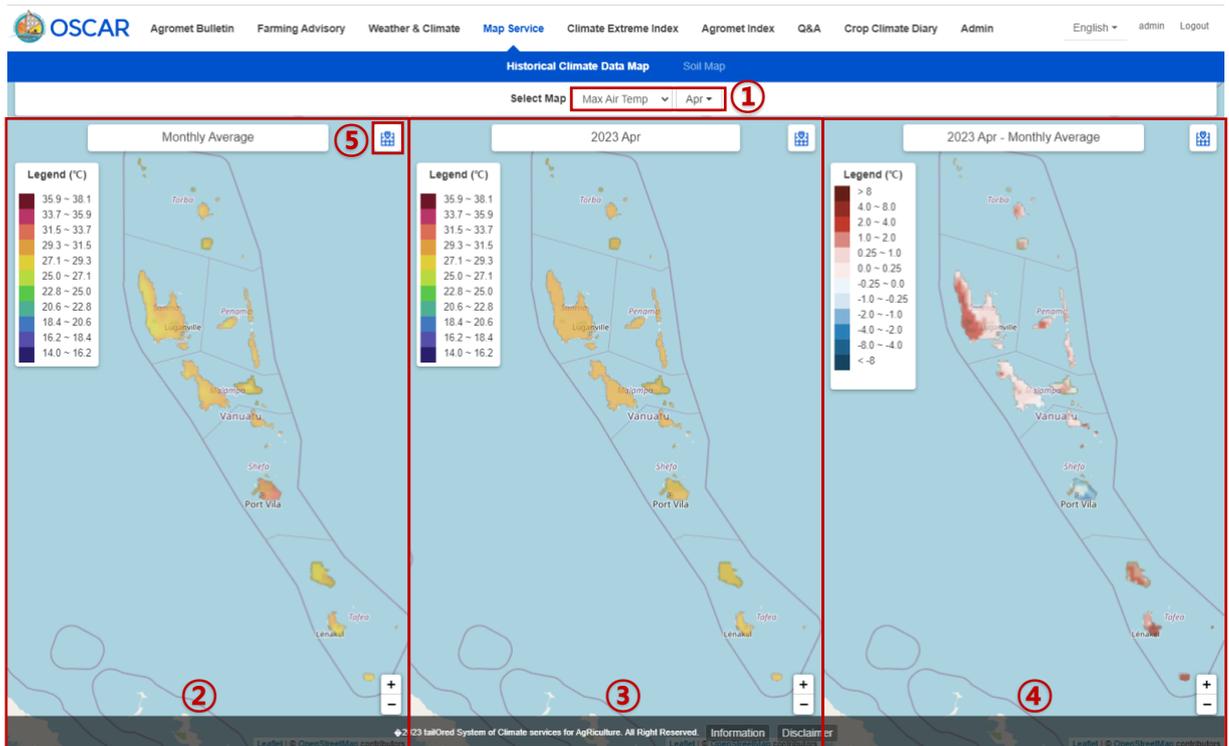
1. These buttons are for selecting a month to see the month's air temperature. Clicking one of the buttons will show a graph of the selected month in ③.
2. These buttons are for selecting a month to see the month's rainfall. Clicking one of the buttons will show a graph of the selected month in ③.
3. A graph of monthly data (air temperature and rainfall) will be shown.
4. ENSO forecast information will be shown in a table.
5. Click this to change the arrangement of graph in ③.
6. Click this to download the map.
7. Click this to move to the center of the map.
8. Click this to move to a place closest to the current location.
9. Toggling this button will hide the window. Toggling it again will re-open the window.
10. Click this to download ENSO data.

3.4. Map Service

3.4.1. Historical Climate Data Map

This page shows the climatological normal data from the past 30 years on a map.

Figure 23. Historical Climate Data Map

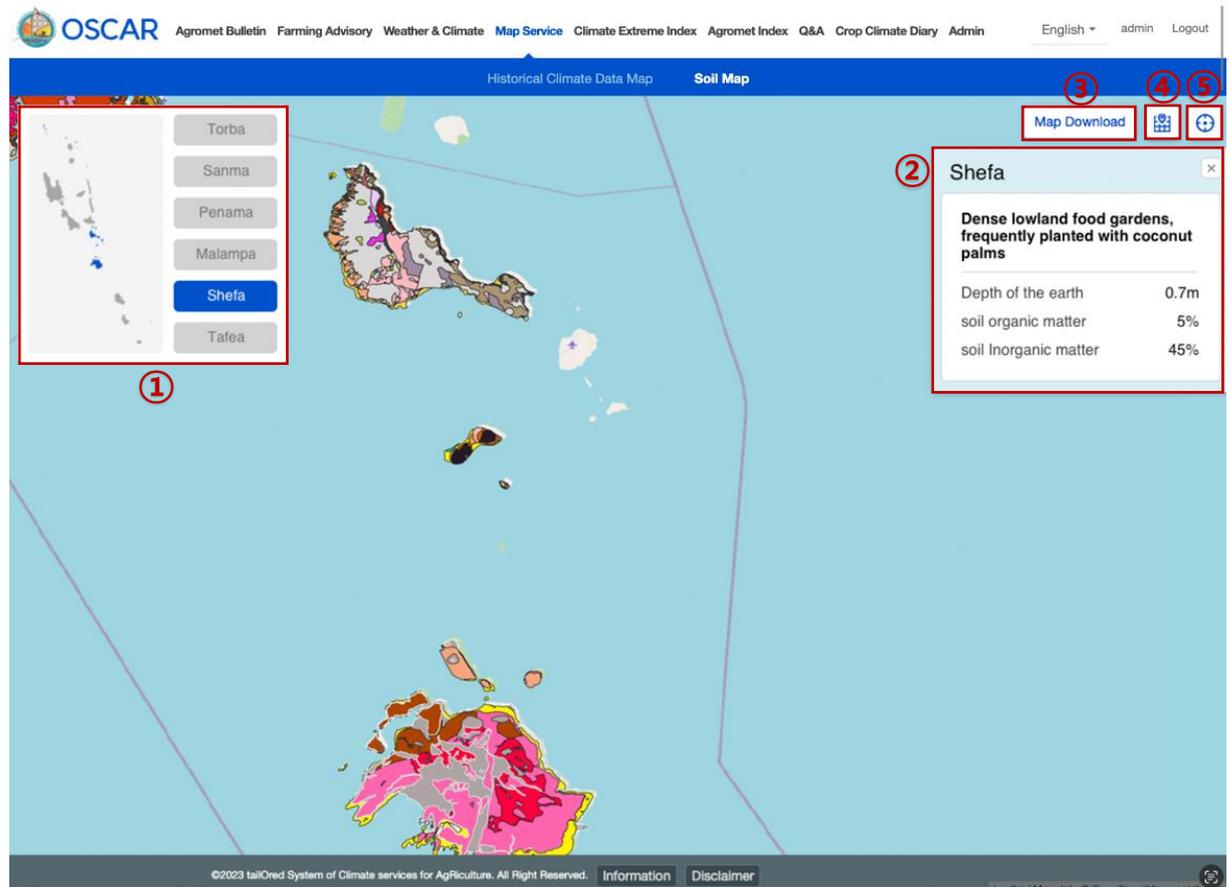


1. You can select the maximum, minimum, and average monthly temperature as well as precipitation.
2. The climatological normal for the last 30 years of the selected month will be shown on the map.
3. The data on the selected month of the current year will be shown on the map.
4. A difference between the climatological normal (for the last 30 years) of the selected month and the average of the same month for the current year will be shown on the map.
5. Click this to move to the center of the map.

3.4.2. Soil Map

This service is for showing the image of Vanuatu's soil attributes on a GIS-based map.

Figure 24. Soil Map



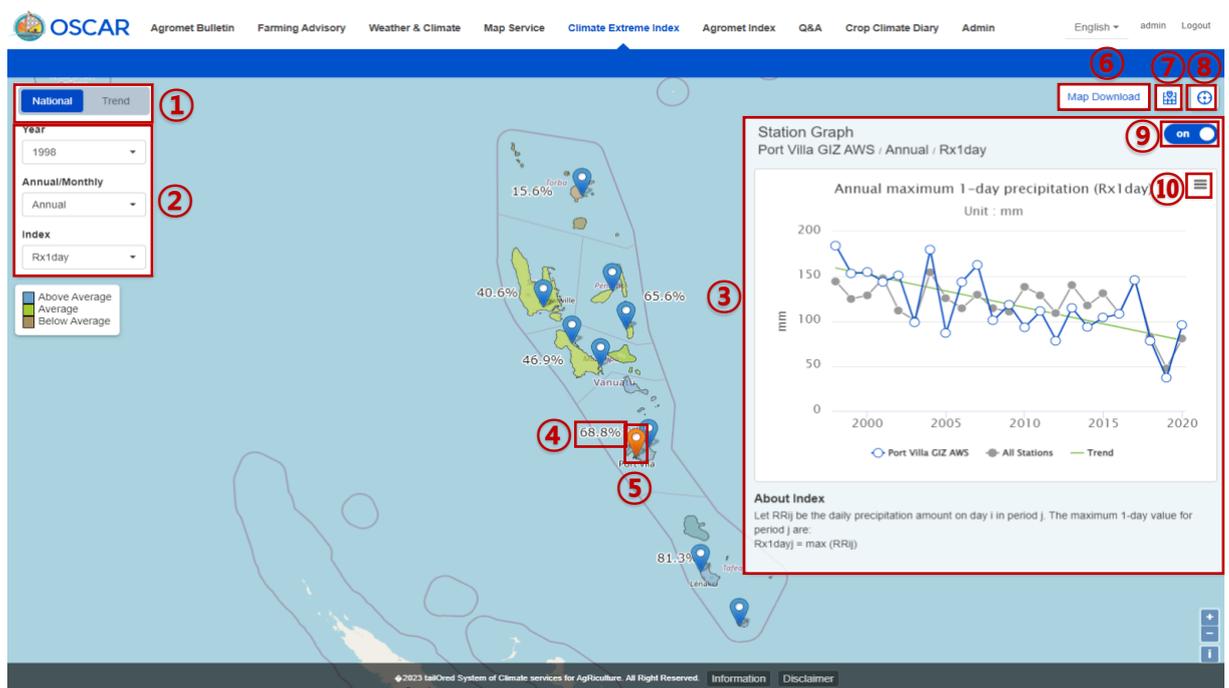
1. Click the name of the island to show the region on a small map.
2. This shows information on the region's soil attributes (depth of the earth, soil organic matter and soil inorganic matter).
3. Click this to download the map.
4. Click this to move to the center of the map.
5. Click this to move to a place closest to the current location.

3.5. Climate Extreme Index

3.5.1. Climate Extreme Index

The weather data observed in Vanuatu for the last 30 years is used to calculate climate extreme index and run statistical analysis per observation location, region, and trend, which then will be shown on the map.

Figure 25. Climate Extreme Index - National



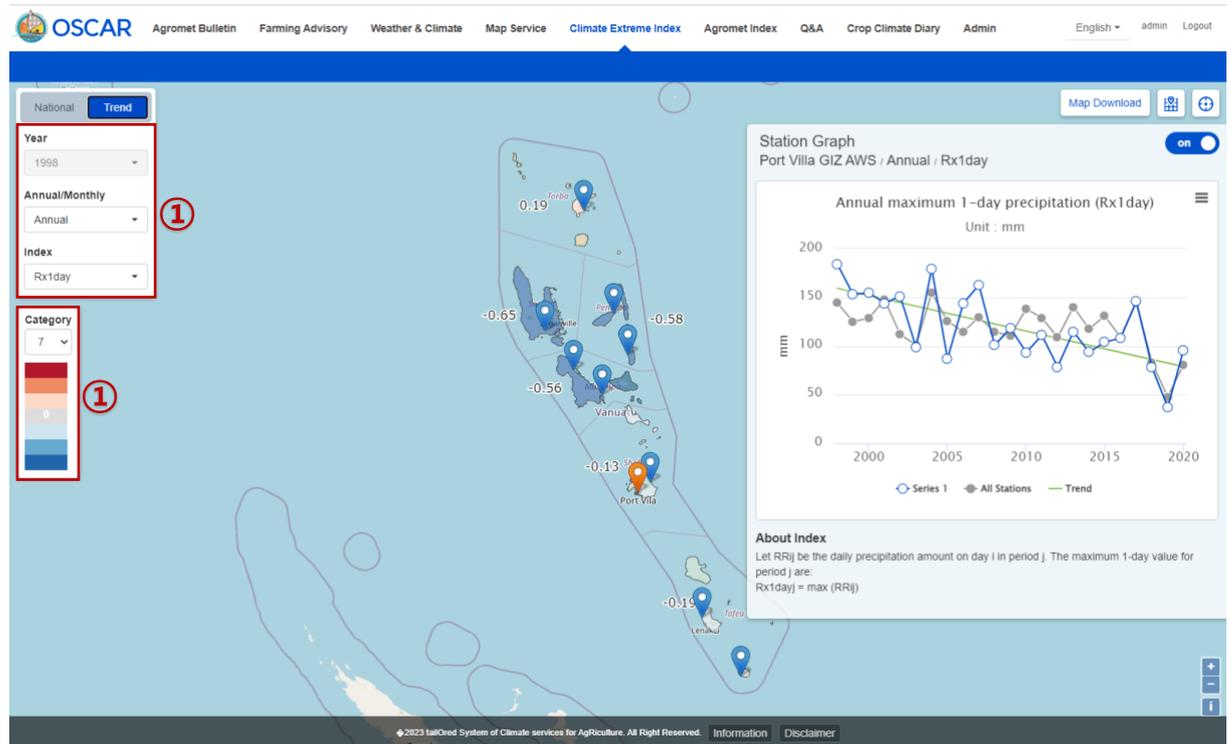
1. You may change the tab between "National" and "Trend".
2. You may choose the year, month, and index. (The graph in ③ varies depending on the marker in ⑤ as well as month and Index. The color of the map varies depending on the year, month and index)
3. A graph appears based on the selected values.
4. The value of index is shown.
5. Clicking a marker in the location will show a graph and information on the area.
6. Click this to download the map.
7. Click this to move to the center of the map.
8. Click this to move to a place closest to the current location and see the information.

9. Toggling the button will turn the graph on/off.

10. You can download the graph.

The weather data observed in Vanuatu for the last 30 years is used to calculate climate extreme index and run statistical analysis per observation location, region, and trend, which then will be shown on the map.

Figure 26. Climate Extreme Index - Trend



1. The year is deactivated on the Trend tab.

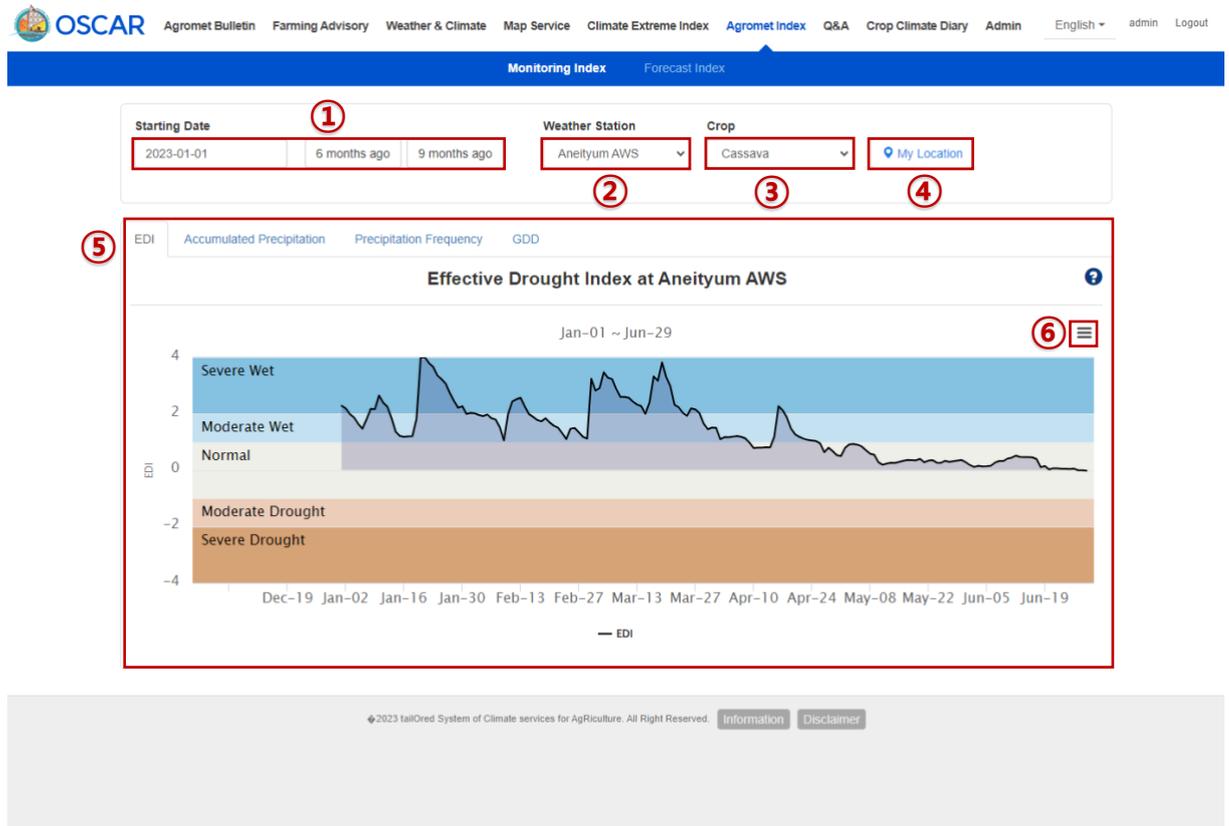
2. Changing the category will change the value of a legend.

3.6. Agromet Index

3.6.1. Monitoring Index

The monitoring index, a type of agromet indices that use observed weather data, provides EDI, accumulated precipitation, precipitation frequency, and GDD.

Figure 27. Monitoring Index

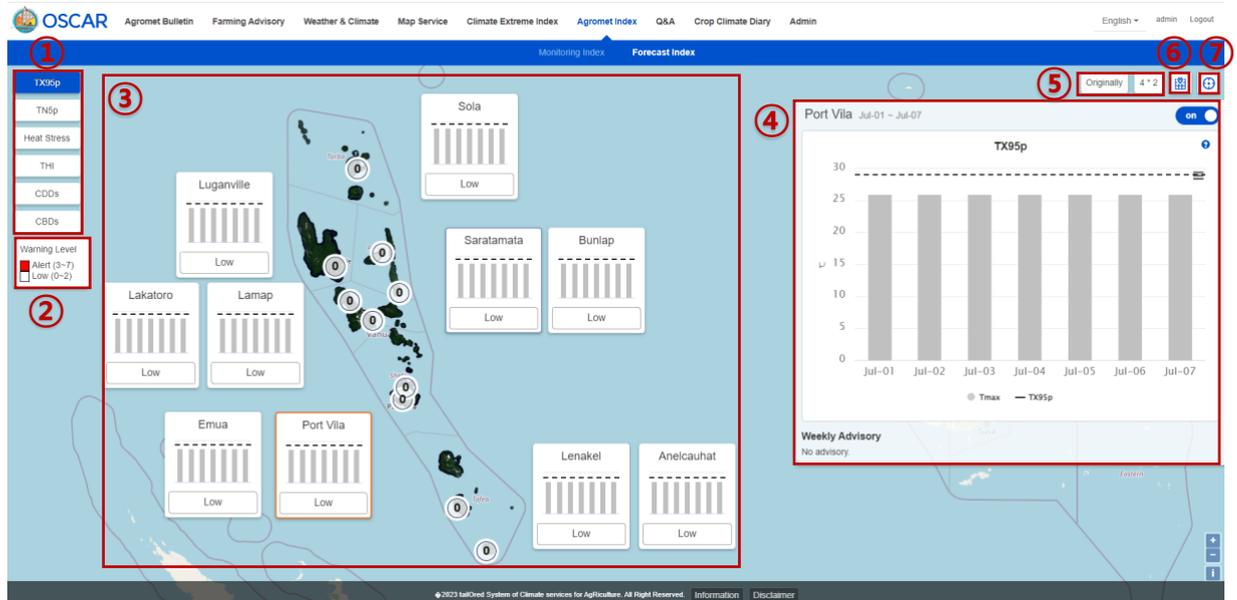


1. You can select the date on which you planted the crop by choosing the specific date or 6 or 9 months ago from now.
2. You can choose the location of observation.
3. You can choose a crop.
4. You can find an observation location that is closest to your current location.
5. Clicking the name of an agromet index will show a graph on the result of calculated index.
6. You can download the graph.

3.6.2. Forecast Index

This is 7-day forecast data of the Vanuatu Meteorology and Geohazards Department (VMGD), presenting agromet indices on the map and charts per observation location.

Figure 28. Forecast Index – Tx95p

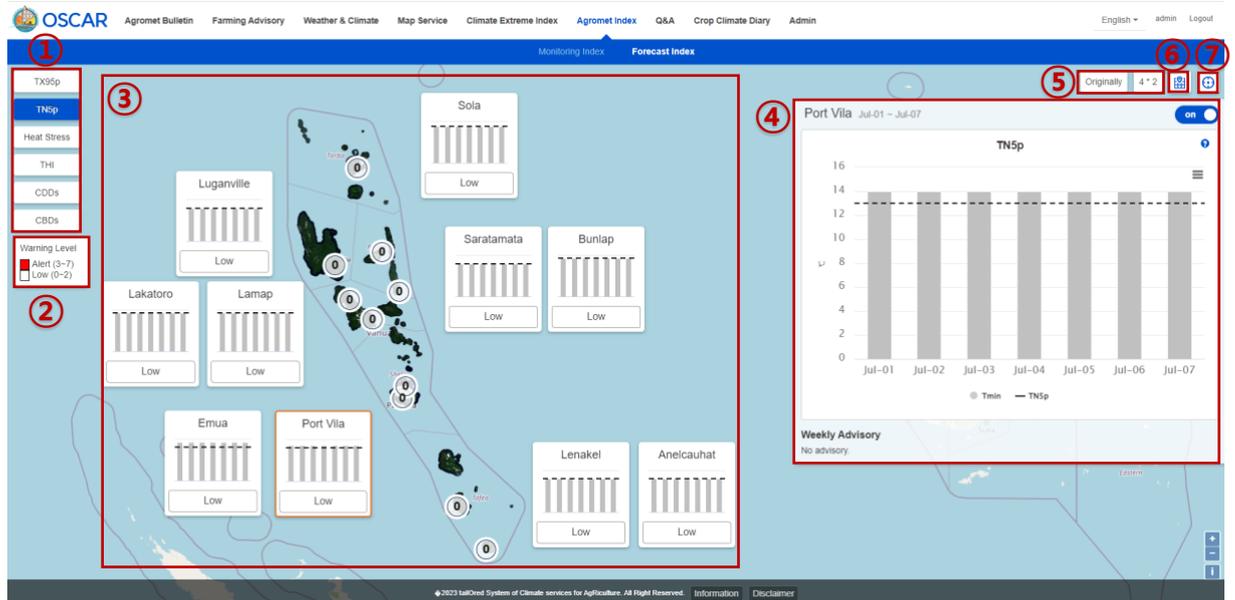


1. You can choose a type of agromet indices.
2. This shows warning levels.
3. Charts show up per observation location, and clicking an observation location to see its data will show detailed data in ④.
4. This is a TX95p chart of the observation location. The chart appears along with advisory.
5. Click this to change the arrangement of charts in ③.
6. Click this to move to the center of the map.
7. Click this to move to a place closest to the current location and see the information.

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This is 7-day forecast data of the Vanuatu Meteorology and Geohazards Department (VMGD), presenting agromet indices on the map and charts per observation location.

Figure 29. Forecast Index – Tn95p

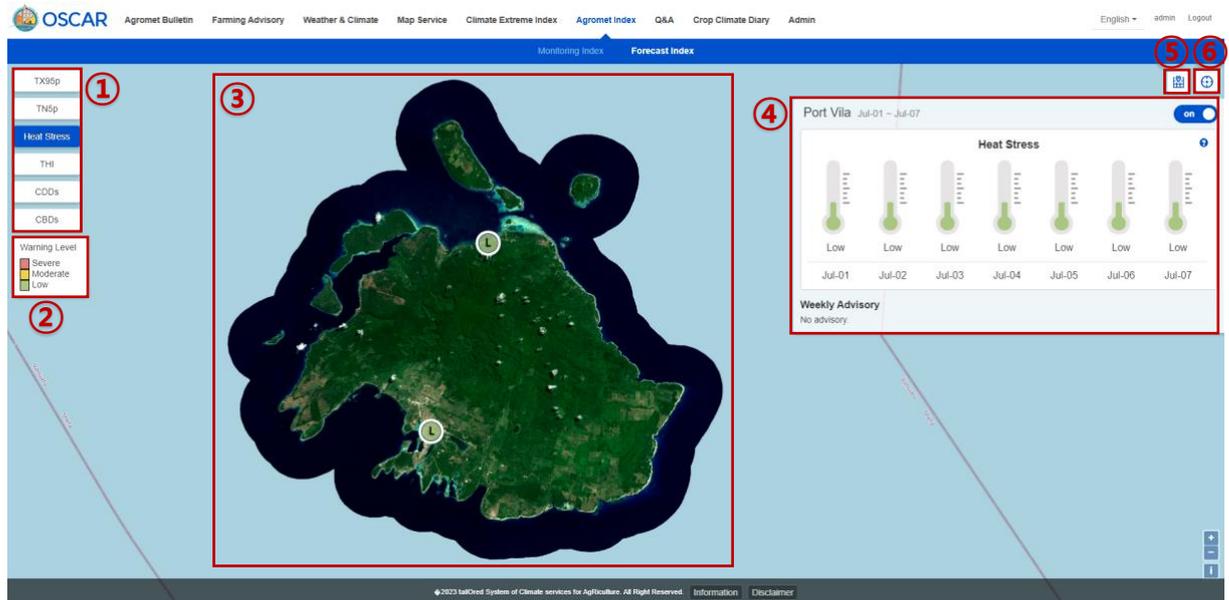


1. You can choose a type of agromet indices.
2. This shows warning levels.
3. Charts show up per observation location, and clicking an observation location to see its data will show detailed data in ④.
4. This is a TN95p chart of the observation location. The chart appears along with advisory.
5. Click this to change the arrangement of charts in ③.
6. Click this to move to the center of the map.
7. Click this to move to a place closest to the current location and see the information.

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This is 7-day forecast data of the Vanuatu Meteorology and Geohazards Department (VMGD), presenting agromet indices on the map and charts per observation location.

Figure 30. Forecast Index – Heat Stress

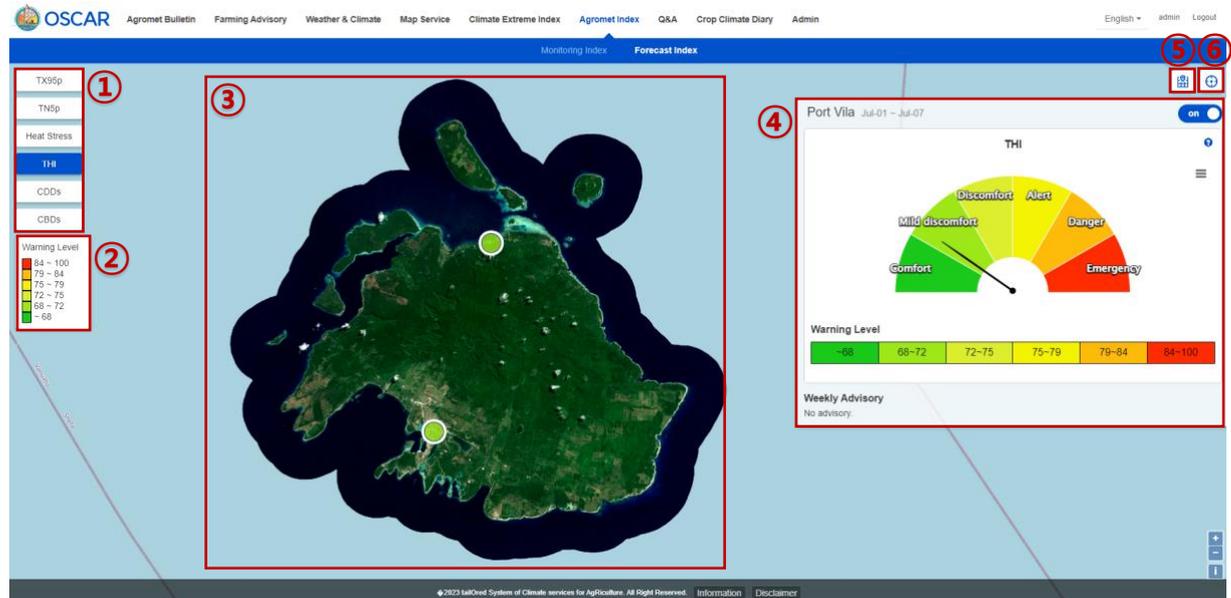


1. You can choose a type of agromet indices.
2. This shows warning levels.
3. Icons that indicate warning levels show up per observation location, and clicking an observation location to see its data will show detailed data in ④.
4. This is a chart of heat stress of the observation location. The chart appears along with advisory.
5. Click this to move to the center of the map.
6. Click this to move to a place closest to the current location and see the information.

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This is 7-day forecast data of the Vanuatu Meteorology and Geohazards Department (VMGD), presenting agromet indices on the map and charts per observation location.

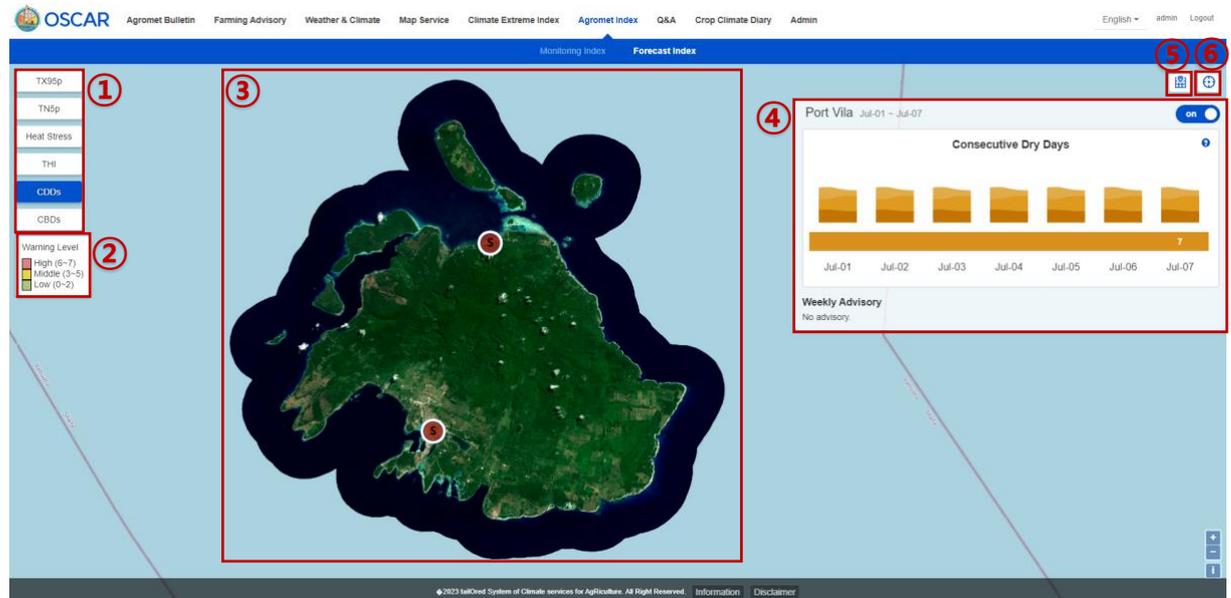
Figure 31. Forecast Index – THI



1. You can choose a type of agromet indices.
2. This shows warning levels.
3. Icons that indicate warning levels show up per observation location, and clicking an observation location to see its data will show detailed data in ④.
4. This is a chart of THI of the observation location. The chart appears along with advisory.
5. Click this to move to the center of the map.
6. Click this to move to a place closest to the current location and see the information.

This is 7-day forecast data of the Vanuatu Meteorology and Geohazards Department (VMGD), presenting agromet indices on the map and charts per observation location.

Figure 32. Forecast Index – CDDs

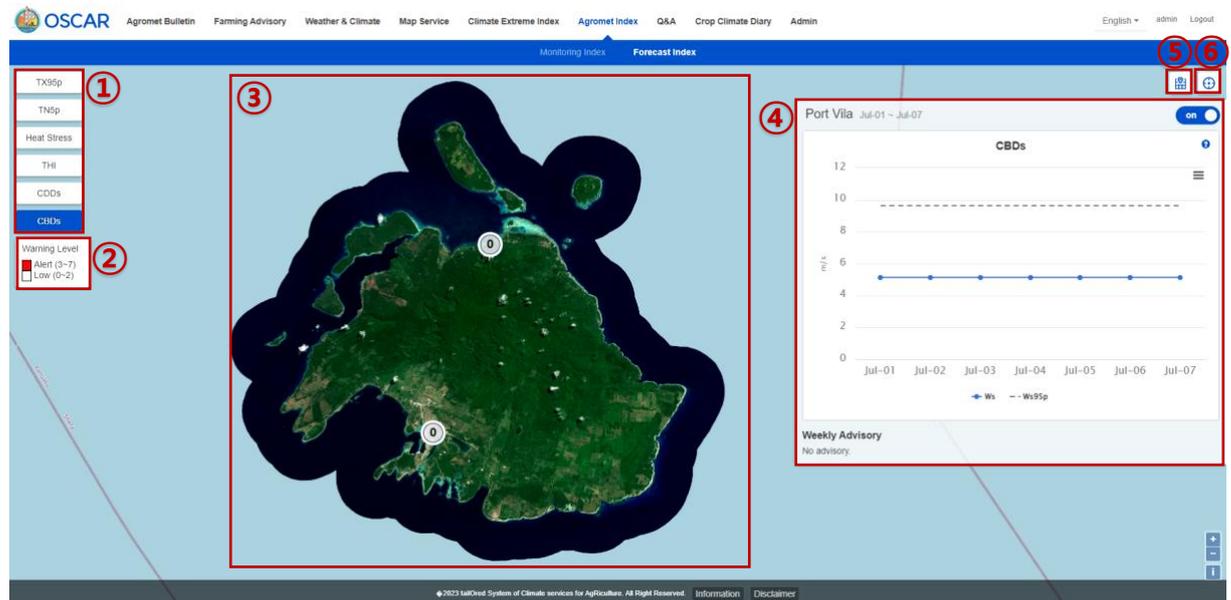


1. You can choose a type of agromet indices.
2. This shows warning levels.
3. Icons that indicate warning levels show up per observation location, and clicking an observation location to see its data will show detailed data in ④.
4. This is a chart of CDDs of the observation location. The chart appears along with advisory.
5. Click this to move to the center of the map.
6. Click this to move to a place closest to the current location and see the information.

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This is 7-day forecast data of the Vanuatu Meteorology and Geohazards Department (VMGD), presenting agromet indices on the map and charts per observation location.

Figure 33. Forecast Index – CBDs



1. You can choose a type of agromet indices.
2. This shows warning levels.
3. Icons that indicate warning levels show up per observation location, and clicking an observation location to see its data will show detailed data in ④.
4. This is a chart of CBDs of the observation location. The chart appears along with advisory.
5. Click this to move to the center of the map.
6. Click this to move to a place closest to the current location and see the information.

3.7. Q&A

3.7.1. Q&A

This service is for the Q&A bulletin board.

Figure 34. Q&A list

Category: All Items

Search: Enter a title or content.

Search

Questions (2)

[Crop Climate Diary] Jan 19, 2023, 10:46 AM by admin
[How to run app](#) Answers

[Climate Extremes Index] Jan 19, 2023, 10:33 AM by admin
[Is there any graph for comparing temperature files?](#) Answers

Showing 1 to 2 of 2 entries

Register

1. You can search Q&A inquiries or replies by selecting a category and using search words.
2. Click the content you'd like to know to view the article.
3. Click this to move to a page for writing a Q&A inquiry.
4. Once activated, you can check if your article has a reply.

This service is for registering Q&A inquiries.

Figure 35. Q&A Register

OSCAR Agromet Bulletin Farming Advisory Weather & Climate Map Service Climate Extreme Index Agromet Index Q&A Crop Climate Diary Admin English admin Logout

Ask a public question

1 Category: All Items Title: Content:

Match the characters in the picture

2 190953 Refresh Sound Enter result

3 Ask a question

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1. Select a category of your inquiry and write a title and text of your inquiry.
2. Clicking Refresh button will change security code (number); clicking Sound button will play security code (number) in voice.
3. Click this to register your Q&A inquiry.

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This service is for viewing the contents of Q&A inquiries and replies.

Figure 36. Q&A Detail

The screenshot displays the Q&A interface. At the top, the OSCAR logo and navigation menu are visible. The main content area shows a question: "is there any graph for comparing temperature files?". Below the question is a text input field for the answer, with a "Register Answer" button. A "Back" button is located at the bottom left. A footer contains copyright information and links for "Information" and "Disclaimer".

1. You can view the contents of Q&A inquiries and replies.
2. Click this to move to the page for editing Q&A inquiries or replies.
3. Write a reply to Q&A inquiries and click this to register your answer.
4. Click this to move back to the list of Q&A inquiries.

This service is for editing the contents of Q&A inquiries.

Figure 37. Q&A Edit

Ask a public question

1

Category: Climate Extremes Index

Title: is there any graph for comparing temperature files?

Content: is there any graph for comparing temperature files?

4 < Back

Delete Edit

2 3

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1. You can edit the category, title and text of the Q&A inquiry.
2. Click this to delete the Q&A inquiry.
3. Click this to complete and upload the edited Q&A inquiry.
4. Click this to move back to the list of Q&A inquiries.

3.8. Admin

3.8.1. Weather Data

This service is for providing time-based weather data.

Figure 38. Weather Data – Hourly Weather Data

The screenshot shows the OSCAR Admin interface. The top navigation bar includes 'OSCAR' and various service links. The 'Weather Data' section is active, with sub-tabs for 'Hourly Weather Data', 'Daily Weather Data', 'Before Quality Control Data', and 'Quality Control Log'. A search form is highlighted with a red box and a circled '1'. The search form contains a 'Weather Station' dropdown (Anellyum AWS), 'Start Date' (2023-06-24), 'End Date' (2023-07-01), and a 'Search' button. Below the search form, a table displays 14 hourly weather observations for the selected station and date range. The table columns include Observation Date, Avg Air Temp (°C), Max Air Temp (°C), Min Air Temp (°C), Rainfall (mm), Relative Humidity (%), Wind Speed (m/s), Wind Direction (deg), Grass Temp (°C), and Ground Temp_10 (°C). The bottom of the page features a footer with copyright information and links to 'Information' and 'Disclaimer'.

Observation Date	Avg Air Temp (°C)	Max Air Temp (°C)	Min Air Temp (°C)	Rainfall (mm)	Relative Humidity (%)	Wind Speed (m/s)	Wind Direction (deg)	Grass Temp (°C)	Ground Temp_10 (°C)
2023-06-24 00:00	16.5	16.8	16.3	0.0	91.0	2.0	58.0	13.8	19.3
2023-06-24 01:00	16.5	16.7	16.4	0.0	91.8	1.8	61.0	13.6	19.1
2023-06-24 02:00	16.9	17.3	16.5	0.0	92.4	1.9	60.0	14.3	19.0
2023-06-24 03:00	16.8	17.2	16.5	0.0	92.5	1.8	56.0	13.6	18.8
2023-06-24 04:00	17.2	17.6	16.8	0.0	93.1	1.6	56.0	16.1	18.8
2023-06-24 05:00	17.6	17.8	17.4	0.0	91.3	1.5	56.0	15.8	19.0
2023-06-24 06:00	18.2	19.0	17.6	0.0	88.2	1.4	62.0	16.2	19.0
2023-06-24 07:00	18.9	19.6	18.6	0.0	84.4	1.1	82.0	17.0	19.1
2023-06-24 08:00	21.9	23.5	19.4	0.0	66.7	1.8	175.0	20.7	19.7
2023-06-24 09:00	23.8	24.6	23.2	0.0	57.3	2.0	172.0	28.8	20.9

1. Choose observation location, start date and end date and click Search button to list weather data on the selected conditions on a table.

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This service is for providing daily weather data.

Figure 39. Weather Data – Daily Weather Data

The screenshot displays the OSCAR web application interface. The top navigation bar includes the OSCAR logo and various service links: Agromet Bulletin, Farming Advisory, Weather & Climate, Map Service, Climate Extreme Index, Agromet Index, Q&A, Crop Climate Diary, Admin, English, admin, and Logout. The main content area is titled 'Weather Data' and contains a sub-menu with 'Hourly Weather Data', 'Daily Weather Data' (selected), 'Before Quality Control Data', and 'Quality Control Log'. A red circle with the number '1' highlights a search form with the following fields: 'Weather Station' (dropdown menu showing 'Anelityum AWS'), 'Start Date' (text input '2023-06-24'), 'End Date' (text input '2023-07-01'), and a 'Search' button. Below the search form, there is a 'Show 10 entries' dropdown and a search input field. A table displays the search results with the following columns: Observation Date, Avg Air Temp (°C), Max Air Temp (°C), Min Air Temp (°C), Rainfall (mm), Relative Humidity (%), Wind Speed (m/s), Rad (J/sq.m), and Sunshine Hours (hour). The table contains one entry for the date 2023-06-24 00:00 with values: Avg Air Temp 20.0, Max Air Temp 25.3, Min Air Temp 16.3, Rainfall 0.0, Relative Humidity 77.9, Wind Speed 1.8, Rad 7.4, and Sunshine Hours 6.0. At the bottom of the page, there is a footer with the text '© 2023 tailOred System of Climate services for AgRiculture. All Right Reserved.' and links for 'Information' and 'Disclaimer'.

Observation Date	Avg Air Temp (°C)	Max Air Temp (°C)	Min Air Temp (°C)	Rainfall (mm)	Relative Humidity (%)	Wind Speed (m/s)	Rad (J/sq.m)	Sunshine Hours (hour)
2023-06-24 00:00	20.0	25.3	16.3	0.0	77.9	1.8	7.4	6.0

1. Choose observation location, start date and end date and click Search button to list daily weather data on the selected conditions on a table.

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You can search raw (pre-quality control), original weather data.

Figure 40. Weather Data – Before Quality Control Data

The screenshot shows the OSCAR web application interface. The top navigation bar includes 'OSCAR', 'Agromet Bulletin', 'Farming Advisory', 'Weather & Climate', 'Map Service', 'Climate Extreme Index', 'Agromet Index', 'Q&A', 'Crop Climate Diary', 'Admin', 'English', 'admin', and 'Logout'. The main menu has 'Weather Data' and 'User Management'. Under 'Weather Data', there are tabs for 'Hourly Weather Data', 'Daily Weather Data', 'Before Quality Control Data', and 'Quality Control Log'. The 'Before Quality Control Data' tab is active.

A search form is highlighted with a red box and a circled '1'. It contains the following fields:

- Weather Station:** A dropdown menu with 'Anellyum AWS' selected.
- Start Date:** A text input field with '2023-06-01' entered.
- End Date:** A text input field with '2023-07-01' entered.
- Search:** A blue button.

Below the search form, there is a 'Show 10 entries' dropdown and a search input field. The main content is a table of weather data:

Original Data	Avg Air Temp (°C)	Max Air Temp (°C)	Min Air Temp (°C)	Rainfall (mm)	Avg RH (%)	Mean Wind Speed (m/s)	Mean Wind Direction (degN)	Gust Wind Speed (m/s)	Gust Wind Direction (degN)	Solar Radiation (W/m ²)	Grass Min (°C)	Grass Temp 10cm (°C)	Grass Temp 20cm (°C)	Grass Temp 50cm (°C)	Grass Temp 100cm (°C)
2023-06-01 00:00	25	25.26	24.9	0	76.4	3.6	82	8.4	82	-2.5	22.2	22.8	23.5	25	25.8
2023-06-01 00:10	25	25.14	24.84	0	76.7	3.7	78	9.1	103	-2.6	22.4	22.8	23.5	25	25.8
2023-06-01 00:20	24.81	25.02	24.59	0	77.6	3.1	75	6.3	67	-2	22.5	22.8	23.5	25	25.8
2023-06-01 00:30	24.77	25.14	24.59	0	77.7	3.1	86	7.8	112	-2.6	22.5	22.8	23.5	25	25.8
2023-06-01 00:40	24.97	25.2	24.9	0	77.6	3.1	83	5.8	51	-2.7	22.6	22.8	23.5	25	25.8
2023-06-01 00:50	25	25.2	24.72	0	79.7	3.1	77	6.6	88	-2.6	22.5	22.9	23.5	25	25.8
2023-06-01 01:00	24.65	24.96	24.35	0	80.2	3.8	80	9	81	-2.6	22.4	22.9	23.5	25	25.8
2023-06-01 01:10	24.78	25.08	24.65	0	78.7	2.9	79	7.5	79	-2	22.2	22.8	23.5	25	25.8
2023-06-01 01:20	24.98	25.14	24.84	0	77.7	3.6	75	7.8	81	-2.6	22.2	22.8	23.5	25	25.8
2023-06-01 01:30	25.15	25.39	25.02	0	77.1	3.5	73	8.6	53	-2.6	22.3	22.9	23.5	25	25.8

At the bottom of the table, it says 'Showing 1 to 10 of 3,392 entries' and a pagination control with buttons for 1, 2, 3, 4, 5, ..., 340, and a right arrow.

At the very bottom of the page, there is a footer with the text: '©2023 tailOred System of Climate services for AgRiculture. All Right Reserved. Information Disclaimer'.

1. Choose observation location, start date and end date and click Search button to list weather data on the selected conditions on a table.

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You can search quality-controlled weather observation data. The quality control was based on the range check (physical limit check and climate limit range check) of quality control techniques of the World Meteorological Organization (WMO). Any value exceeding the reference range has been counted as an omitted value.

Figure 41. Weather Data – Quality Control Log

The screenshot shows the OSCAR Weather Data Quality Control Log interface. The search form is highlighted with a red box and a circled '1'. The table below shows the resulting weather data for the selected station and dates.

Observation Date	Avg Air Temp (°C)	Max Air Temp (°C)	Min Air Temp (°C)	Rainfall (mm)	Avg RH (%)	Mean Wind Speed (m/s)	Mean Wind Direction (degH)	Gust Wind Speed (m/s)	Gust Wind Direction (degH)	Solar Radiation (W/m²)	Grass Min (°C)	Grass Temp 10cm (°C)	Grass Temp 20cm (°C)	Grass Temp 50cm (°C)	Grass Temp 100cm (°C)	Updated	Edit
2023-06-01 00:00	25	25.26	24.9	0	76.4	3.6	82	8.4	82		22.2	22.8	23.5	25	25.8	Y	/
2023-06-01 00:10	25	25.14	24.84	0	76.7	3.7	78	9.1	103		22.4	22.8	23.5	25	25.8	Y	/
2023-06-01 00:20	24.81	25.02	24.59	0	77.6	3.1	75	6.3	67		22.5	22.8	23.5	25	25.8	Y	/
2023-06-01 00:30	24.77	25.14	24.59	0	77.7	3.1	86	7.8	112		22.5	22.8	23.5	25	25.8	Y	/
2023-06-01 00:40	24.97	25.2	24.9	0	77.6	3.1	83	5.8	51		22.6	22.8	23.5	25	25.8	Y	/
2023-06-01 00:50	25	25.2	24.72	0	79.7	3.1	77	6.6	88		22.5	22.9	23.5	25	25.8	Y	/
2023-06-01 01:00	24.65	24.96	24.35	0	80.2	3.8	80	9	81		22.4	22.9	23.5	25	25.8	Y	/
2023-06-01 01:10	24.78	25.08	24.65	0	78.7	2.9	79	7.5	79		22.2	22.8	23.5	25	25.8	Y	/
2023-06-01 01:20	24.98	25.14	24.84	0	77.7	3.6	75	7.8	81		22.2	22.8	23.5	25	25.8	Y	/
2023-06-01 01:30	25.15	25.39	25.02	0	77.1	3.5	73	8.6	53		22.3	22.9	23.5	25	25.8	Y	/

1. Choose observation location, start date and end date and click Search button to list weather data on the selected conditions on a table.

You can check the original data.

Figure 42. Weather Data – Quality Control Log - Updated

	Original Data	Physical Limit Check	Internal Consistency Check	Time Consistency Check	QC Date	Modified Time	Rollback
Avg Air Temp (°C)	25	Passed	Passed	Passed	2023-06-21 02:18:47	-	Rollback
Max Air Temp (°C)	25.26	Passed	Passed	Passed	2023-06-21 02:18:47	-	Rollback
Min Air Temp (°C)	24.9	Passed	Passed	Passed	2023-06-21 02:18:47	-	Rollback
Rainfall (mm)	0	Passed	-	-	2023-06-21 02:11:37	-	Rollback
Avg RH (%)	76.4	Passed	-	Passed	2023-06-21 02:18:47	-	Rollback
Mean Wind Speed (m/s)	82	Passed	Passed	-	2023-06-21 02:13:50	-	Rollback
Mean Wind Direction (degN)	3.6	Passed	Passed	-	2023-06-21 02:13:50	-	Rollback
Gust Wind Speed (m/s)	8.4	Passed	Passed	-	2023-06-21 02:13:50	-	Rollback
Gust Wind Direction (degN)	82	Passed	-	-	2023-06-21 02:11:37	-	Rollback
Solar Radiation (Wim²)	-2.5	Deleted	-	-	2023-06-21 02:11:37	-	Rollback
Grass Min (°C)	22.2	Passed	-	-	2023-06-21 02:11:37	-	Rollback
Grass Temp 10cm (°C)	22.8	Passed	-	Passed	2023-06-21 02:18:47	-	Rollback
Grass Temp 20cm (°C)	23.5	Passed	-	Passed	2023-06-21 02:18:47	-	Rollback
Grass Temp 50cm (°C)	25	Passed	-	Passed	2023-06-21 02:18:47	-	Rollback
Grass Temp 100cm (°C)	25.8	Passed	-	Passed	2023-06-21 02:18:47	-	Rollback

1. Click this to open a window shown in ②.
2. This is the original data of the selected item.
3. After clicking a button here, the data deleted or edited based on a certain condition will be reverted to its original version.
4. The deleted data is shown.

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You can edit data on your own.

Figure 43. Weather Data – Quality Control Log - Edit

The screenshot displays the OSCAR Weather Data Quality Control Log interface. At the top, there is a navigation bar with the OSCAR logo and various service links. Below this, a search filter is set for 'Anellyum AWS' from 2023-06-01 to 2023-07-03. The main content is a table of weather observations. The first row is highlighted with a red box and a circled '1', indicating it is the focus of the edit action. The table columns include Observation Date, Avg Air Temp (°C), Max Air Temp (°C), Min Air Temp (°C), Rainfall (mm), Avg RH (%), Mean Wind Speed (m/s), Mean Wind Direction (degN), Gust Wind Speed (m/s), Gust Wind Direction (degN), Solar Radiation (W/m²), Grass Min (°C), Grass Temp 10cm (°C), Grass Temp 20cm (°C), Grass Temp 50cm (°C), Grass Temp 100cm (°C), Updated, and Edit.

Observation Date	Avg Air Temp (°C)	Max Air Temp (°C)	Min Air Temp (°C)	Rainfall (mm)	Avg RH (%)	Mean Wind Speed (m/s)	Mean Wind Direction (degN)	Gust Wind Speed (m/s)	Gust Wind Direction (degN)	Solar Radiation (W/m²)	Grass Min (°C)	Grass Temp 10cm (°C)	Grass Temp 20cm (°C)	Grass Temp 50cm (°C)	Grass Temp 100cm (°C)	Updated	Edit
2023-06-01 00:00	25	25.26	24.9	0	76.4	3.6	82	8.4	82		22.2	22.8	23.5	25	25.8	Y	✓ C
2023-06-01 00:10	25	25.14	24.84	0	76.7	3.7	78	9.1	103		22.4	22.8	23.5	25	25.8	Y	✎
2023-06-01 00:20	24.81	25.02	24.59	0	77.6	3.1	75	6.3	67		22.5	22.8	23.5	25	25.8	Y	✎
2023-06-01 00:30	24.77	25.14	24.59	0	77.7	3.1	86	7.8	112		22.5	22.8	23.5	25	25.8	Y	✎
2023-06-01 00:40	24.97	25.2	24.9	0	77.6	3.1	83	5.8	51		22.6	22.8	23.5	25	25.8	Y	✎
2023-06-01 00:50	25	25.2	24.72	0	79.7	3.1	77	6.6	88		22.5	22.9	23.5	25	25.8	Y	✎
2023-06-01 01:00	24.65	24.96	24.35	0	80.2	3.8	80	9	81		22.4	22.9	23.5	25	25.8	Y	✎
2023-06-01 01:10	24.78	25.08	24.65	0	78.7	2.9	79	7.5	79		22.2	22.8	23.5	25	25.8	Y	✎
2023-06-01 01:20	24.98	25.14	24.84	0	77.7	3.6	75	7.8	81		22.2	22.8	23.5	25	25.8	Y	✎
2023-06-01 01:30	25.15	25.39	25.02	0	77.1	3.5	73	8.6	53		22.3	22.9	23.5	25	25.8	Y	✎

Pages: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 ... Next Last 1 of 340

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1. You can edit or roll back the data of your choice by yourself.

3.8.2. User Management

Only administrators can access this menu for managing website users. A system administrator can create and manage an account that can log in the VaCSA system. The authorization levels of the VaCSA system are: ROLE_ADMIN (system administrator), ROLE_CCD (CCD administrator), ROLE_SURVEYOR (CCD surveyor), and ROLE_MEMBER (ordinary member). The ROLE_ADMIN, ROLE_CCD, and ROLE_MEMBER authorization levels can be granted on the user management menu. A surveyor is managed separately on the surveyor screen of Crop Climate Diary.

Figure 44. User Management list

The screenshot shows the Oscar User Management interface. At the top, there is a navigation bar with the Oscar logo and various menu items. Below the navigation bar, there is a blue header for 'User Management'. The main content area is titled 'User List' and features a search bar and a table of users. A red box highlights the 'Add User' button, and another red box highlights the gear icon in the 'Edit' column of the first user row.

No	User Name	ID	Authorization	Use	Edit
1	admin	admin	ADMIN,CCD,MEMBER	Y	
2	epinet	epinet	MEMBER,CCD	Y	
3	Pakoa	pakoa	CCD,MEMBER	Y	
4	Shin	shin	SURVEYOR	Y	
5	VARTC	vartc	SURVEYOR	Y	
6	SKLee	sklee	CCD,ADMIN,MEMBER	Y	
7	Lee vanuatu	lee	SURVEYOR	N	
8	Van KIRAP	VanKIRAP	SURVEYOR	Y	
9	edu01	edu01	CCD,MEMBER	N	
10	edu02	edu02	MEMBER,CCD	N	

1. Click this to register a new user.
2. You can edit the information of a registered user.

User Management: Adding a New User

Figure 45. User Management – Add User

No	Name	Username	Password	Role	Status	Edit
1						
2						
3						
4						
5	VARTC	varic		SURVEYOR	Y	
6	SkLee	sklee		CCD_ADMIN.MEMBER	Y	
7	Lee vanuatu	lee		SURVEYOR	N	
8	Van KIRAP	VanKIRAP		SURVEYOR	Y	
9	edu01	edu01		CCD_MEMBER	N	
10	edu02	edu02		MEMBER.CCD	N	

1. You can check whether the ID you typed already exists.
2. You can set the access authorization level of a user.
3. You can register a new user.

User Management: Edit

Figure 46. User Management – Edit User

The screenshot shows the 'Edit User' modal in the Oscar system. The modal is titled 'Edit' and contains the following fields and controls:

- Name***: Text input field containing 'admin'.
- ID**: Text input field containing 'admin', marked with a red circle 1. The field is disabled.
- Password**: Text input field, marked with a red circle 2.
- Confirm Password**: Text input field, marked with a red circle 2.
- Authorization***: Dropdown menu showing 'CCD, MEMBER, ADMIN', marked with a red circle 3.
- Use***: Checkable input field with 'Yes' selected, marked with a red circle 4.
- Close**: Button.
- Edit**: Button, highlighted in green, marked with a red circle 5.

The background shows a 'User List' table with the following data:

No						
1						
2						
3						
4						
5						
6	SkLee	sklee	CCD,ADMIN,MEMBER	Y		
7	Lee vanuatu	lee	SURVEYOR	N		
8	Van KIRAP	VanKIRAP	SURVEYOR	Y		
9	edu01	edu01	CCD, MEMBER	N		
10	edu02	edu02	MEMBER, CCD	N		

1. A user ID cannot be changed.
2. You can change the password by typing a new one; to change the password, type a different password and type it again for verification. The password will remain unchanged if no input is made.
3. You can edit a user's access authorization level.
4. You can change the setting on whether the ID would be used.
5. Click this button to save the edit.