



United States Department of Agriculture

Natural Resources Conservation Service

Create a Basic Wind Rose

Remote Automated Weather Station (RAWS) Data

<https://raws.dri.edu/>

Created: 12/9/2020

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RAWS USA Climate Archive

[Station Maps and Data](#) [Summaries](#) [Photos](#) [Documents](#) [Related Links](#) [Specials](#)

Best viewed with 800 X 600 or greater screen resolution.

State Selection Map

Home Page

Use upper left drop down or click on your state



State Page

Use list on left or blue dots on map to select your nearest station

RAWS sites

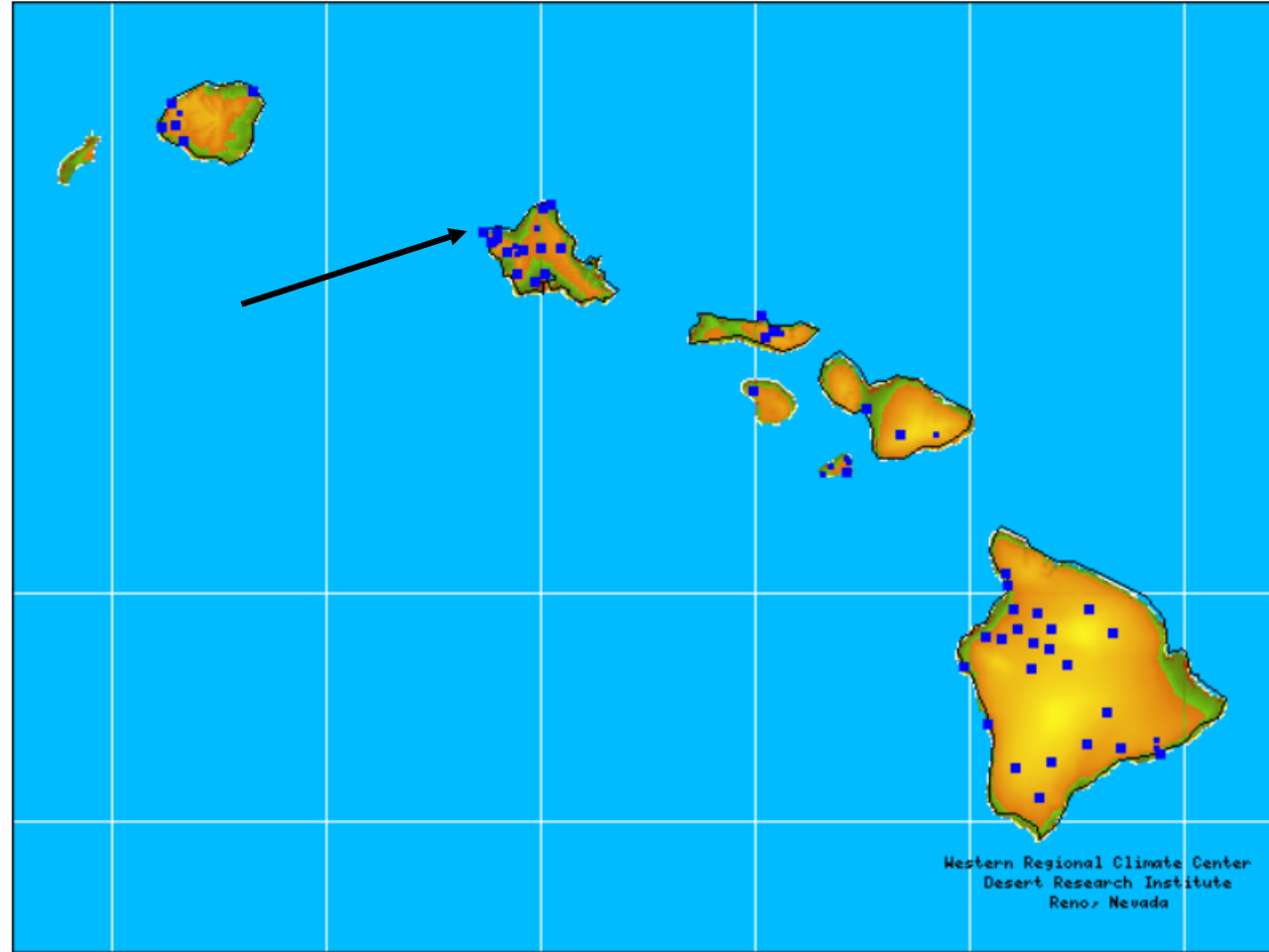
- [Ahumoa Hawaii](#)
- [Dillingham Hawaii](#)
- [Hakioawa Hawaii](#)
- [Hakalau Hawaii](#)
- [Honokanai'a Hawaii](#)
- [Honouliuli PHB Hawaii](#)
- [Hairpin Hawaii](#)
- [Kahuku Training Area Hawaii](#)
- [Kaloko-Honokohau Hawaii](#)
- [Kaneloa Hawaii](#)
- [Palehua Hawaii](#)
- [Kaupo Gap Hawaii](#)
- [Kawaihoa Training Area Hawaii](#)
- [Keamoku Lava Flow Hawaii](#)
- [Kahuku Hawaii](#)
- [Kii Hawaii](#)
- [Kaupulehu Lava Flow Hawaii](#)
- [Kealakomo Hawaii](#)
- [Kealialalo Hawaii](#)
- [Keaumo Hawaii](#)
- [Kohala Ranch Hawaii](#)
- [Kealia Pond NWR Hawaii](#)
- [Kapapala Ranch Hawaii](#)
- [Kupu Kupu Hawaii](#)
- [Kuaokala Hawaii](#)
- [Kula 1 Hawaii](#)
- [Lanai 1 Hawaii](#)
- [Lower Kahuku Hawaii](#)
- [Lua Makika Hawaii](#)
- [Makaha Ridge Hawaii](#)
- [Makapulapai Hawaii](#)
- [Mana Hawaii](#)
- [Malama Yellow Hawaii](#)

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Select a site by placing mouse cursor over a site. Site name will appear in location box below the map if browser supports JavaScript.
Large boxes indicate stations that had reported during the month when these maps were last generated. Site names are color-coded by month.

Map last generated on 09/02/20.

If a location has multiple stations or more than one platform in the near vicinity, overlapping boxes may create difficulty when selecting a site.



Location:

Station Page

The red months indicate which years and months within years data is available for that station. *If there is severely limited data (few months and years shown), the resulting products may be less reliable.

Select the Wind Rose Graph and Tables link on the left menu.

Back to:



NOTE:

To print data frame (right side), click on right frame before printing.

- [Daily Summary](#)
- [Daily Summary \(with Wind Chill and Heat Index\)](#)
- [Daily Summary Time Series](#)
- [Monthly Summary](#)
- [Monthly Summary \(w/ Et data\)](#)
- [Monthly Summary Time Series](#)
- [Graph of last 7 days](#)
- [Time Series Graph](#)
- [Wind Rose Graph and Tables](#)
- [Wind Stability/Wind Rose Graph and Tables](#)
- [Frequency Distribution/Histogram](#)
- [Data Lister](#)
- [Data Inventory \(Monthly Graphic\)](#)
- [Station Metadata and Photos](#)
- [Current 7-day forecast \(NWS\) \(May not work correctly for some Central and Southern U.S. states.\)](#)

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wrcc@dri.edu

Kuaokala Hawaii

BOLD, Red indicates some data available for month and year.
2020 **Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec**
2019 **Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec**
2018 **Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec**
2017 **Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec**
2016 **Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec**
2015 **Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec**
2014 **Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec**
2013 **Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec**
2012 **Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec**
2011 **Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec**
2010 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov **Dec**

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Wind Rose Menu

Fill in the options as needed. Be sure to change the start date to reflect how far back in time you want to draw data. NOTE – querying more than two years may result in a long load time for the figure.

Use filtering options and sub windows (season intervals) by scrolling down (options shown to right of slide).

Click “Submit Info” when ready.

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Station Wind Rose

Available elements:

- Mean Wind Speed
 Maximum Wind Gust

Station:

Kuaokala Hawaii

Earliest available data: December 2010.

Latest available data: December 2020.

Check [Data Inventory](#) for data availability between earliest and latest date.

Set the starting date.

Select the Month: Select the Day: Select the Year:

Set the ending date.

Select the Month: Select the Day: Select the Year:

Options.

Select the Units

English (mph) Metric (m/s) English (knots)

Select the image size.

Small (500x500) Medium (650x650) Large (750x750)

Set the Scaling range:

0-30% 0-60% 0-90% Dynamic

Select the Wind Speed Divisions:

(units same as selected above)

Select the Calm threshold:

(units same as selected above)

(Note: MPH * .45 = m/s, MPH * .8684 = knots)

Number of compass points:

16 points 36 points

List the numbers in a frequency table:

Yes No

Table output format:

Percent Total Counts

Include an hourly wind statistics table:

Yes No

Format of output tables:

html Downloadable ASCII

Element obs filter:

Element: Filter Type: Lower Bound: Upper Bound:

Sub interval windows:

[Examples](#) of Sub interval windows use.

Select the

Starting Date:

Month: Day:

Select the

Ending Date:

Month: Day: (inclusive)

Select the

Starting Hour:

Select the

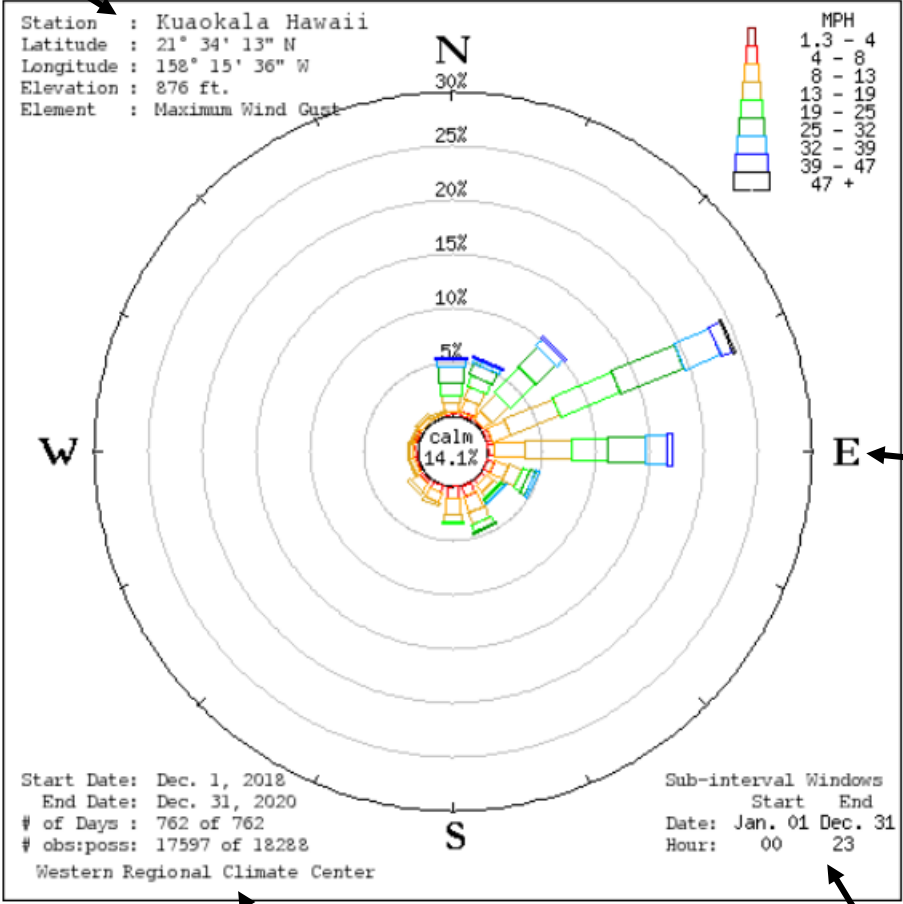
Ending Hour:

(exclusive)

Disclaimer: As with all summarizing products, understanding the nature of the original data is important.
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Station name and info

Kuaokala Hawaii



Color code for wind strength categories

Four cardinal directions

** This wind rose is showing that the Kuaokala RAWS site typically received "maximum wind gusts" from the NE or E direction between 2018 and 2020, max 47 MPH

Start and end dates entered by user

Sub-interval parameters, if specified

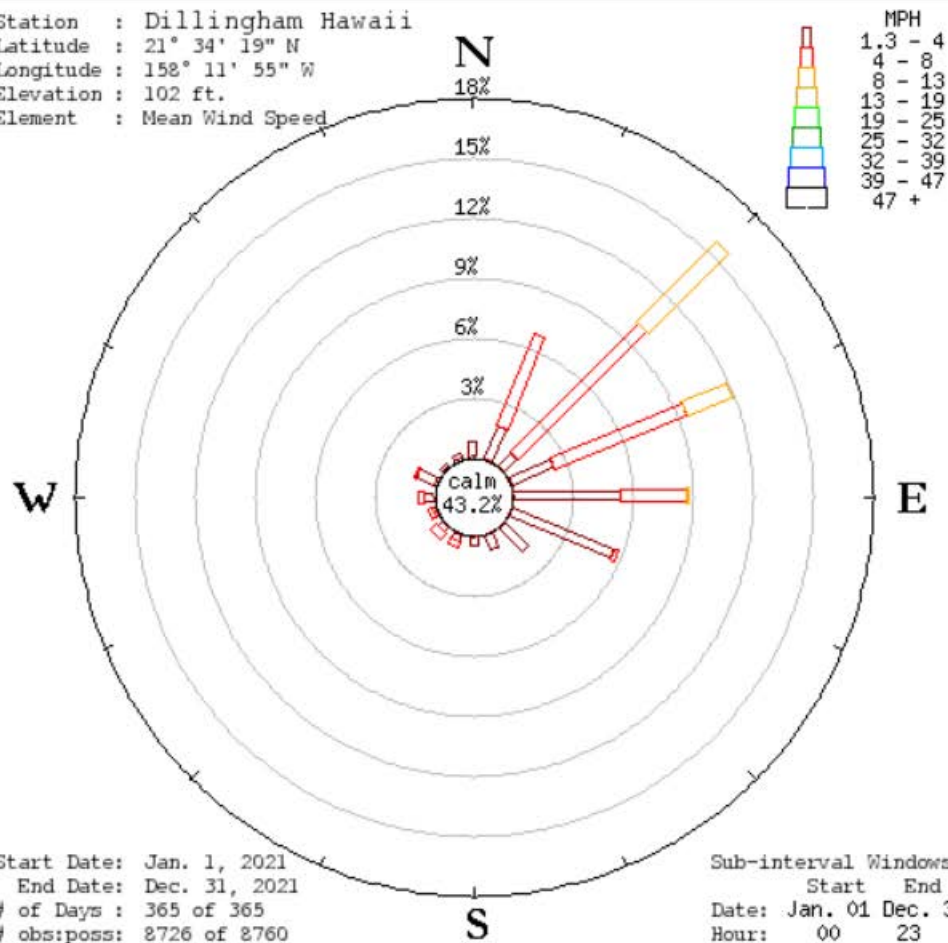
Output

Figure, and table with station info and timeframe queried is given. Additional tables are given showing wind frequency (percent) by direction and magnitude; as well as an hourly wind statistics table for the time within the start and end dates selected by the user.

Print page, or right click figure and "save image" or copy and paste to desired location.

Dillingham Hawaii

Station : Dillingham Hawaii
Latitude : 21° 34' 19" N
Longitude : 158° 11' 55" W
Elevation : 102 ft.
Element : Mean Wind Speed



Western Regional Climate Center