

# QUARTERLY WIND ROSE OVERLAYS

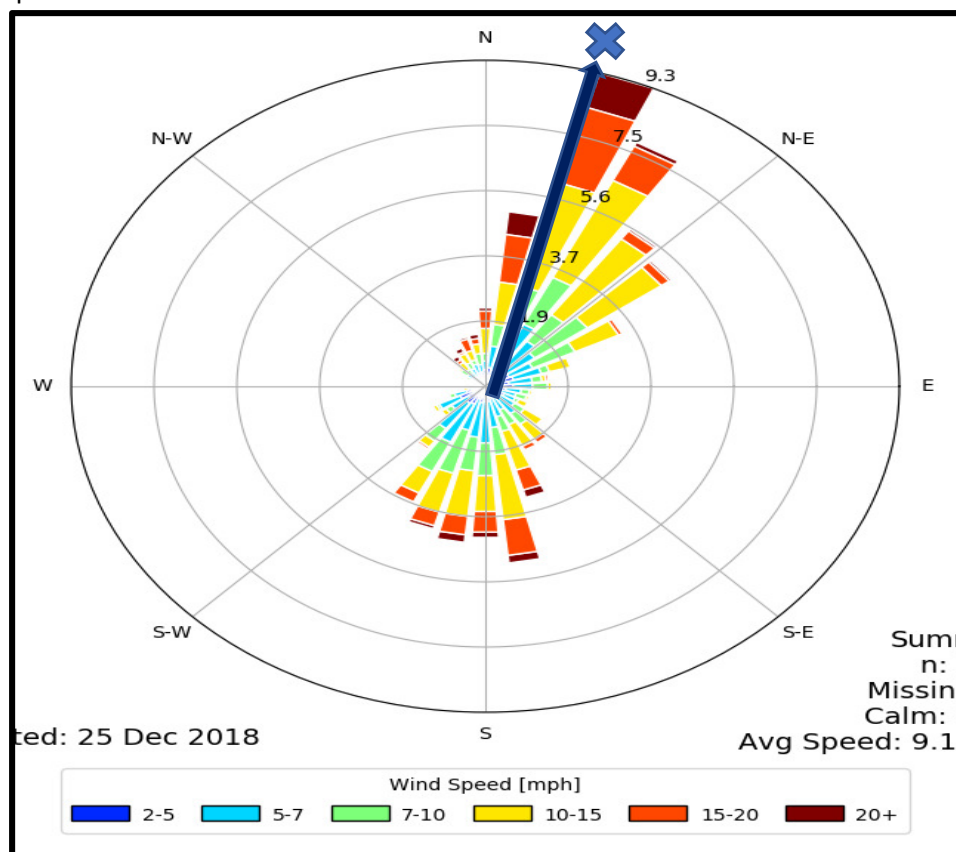
## How Do I Measure Possible Emissions and Fugitive Dust That Will Blow Over My Household?

Map the location of your household using [stop3009vulcanquarry.com/crushermap](http://stop3009vulcanquarry.com/crushermap) or download the map of the crusher location from <https://www.stop3009vulcanquarry.com/wp-content/uploads/2018/01/map-detailed-zoom-crusher.jpg>

Place the wind rose IN THE center at the location of the crusher. Draw a line from the center for the rosebud to your household.

To read the data, the wind blows from the outside direction to the inside across the crusher location to the other side. Make sure you identify the months based on the top of the map. Sample language picture and language can be something like this:

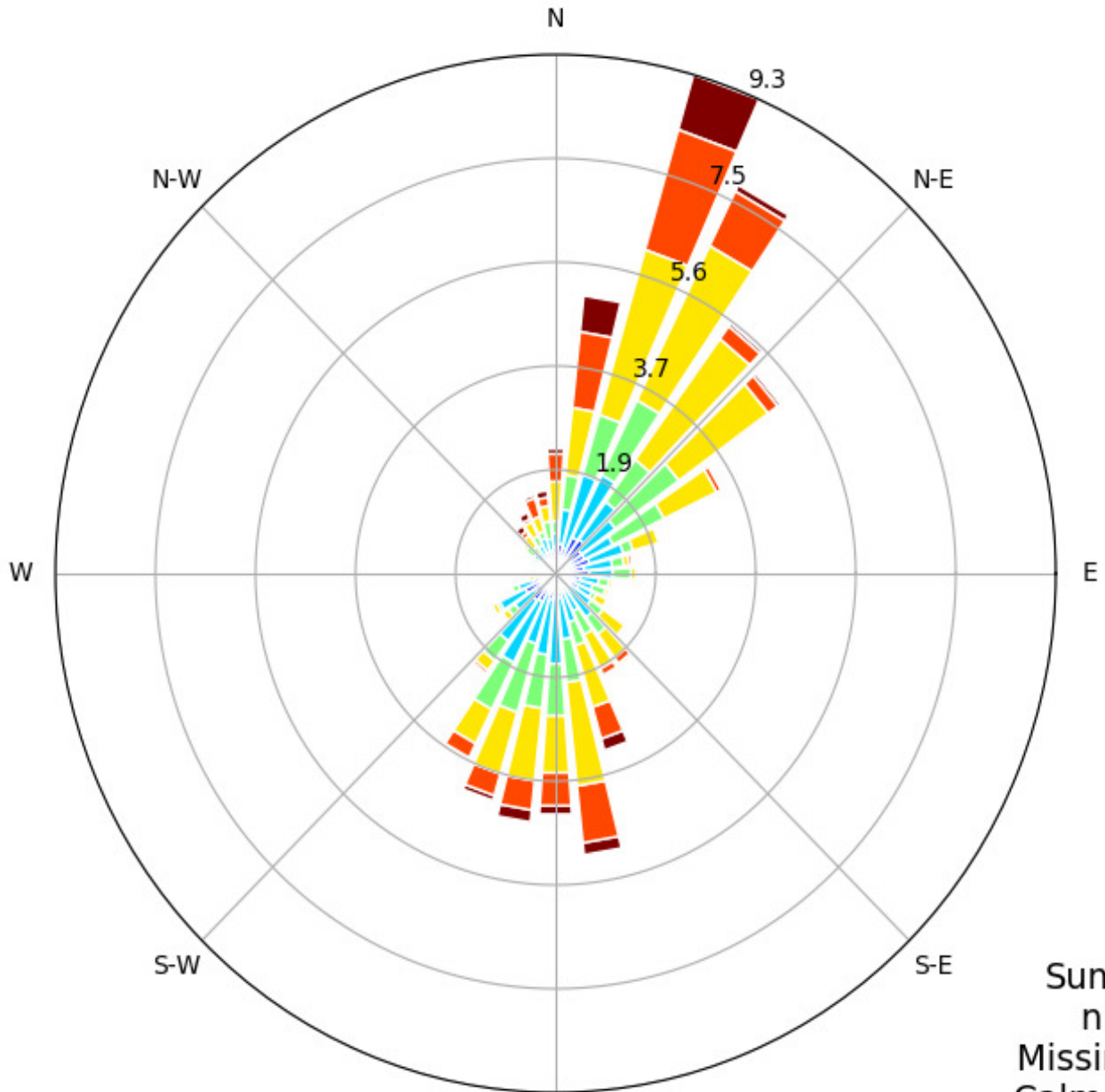
My home lies in direct line of the prevailing winds from southwest to the north - northeast December – March. This figure shows that my homestead is 1.28 miles from the crusher & how the wind will traverse the crusher and blow fugitive dust in the direction of my homestead. I am well within a distance that particulate matter can easily travel, not common to the general public for increased exposure to particulates.



"PM 10 and PM2.5 are particles that are small enough to penetrate the delicate lining of the respiratory system following inhalation. The health effects of inhalable PM are well documented. Health risks are due to exposure over both the short term (hours, days) and long term (months, years). Short-term exposure can result in coughing, shortness of breath, tightness in the chest and irritation of the eyes. Long-term exposure can result in reduced lung function, and respiratory diseases such as asthma, chronic obstructive pulmonary, lung cancer, emphysema, and aggravation of existing lung disease. Long term exposure is also associated with increased risk of allergies, cardiovascular disease and autoimmune disease. PM exposure affects health adversely such that there is increased absence from school and work, increased visits to emergency room and doctors' offices, and hospitalization. (See [White Paper 1](#) & [White Paper 2](#) ).

# QUARTERLY WIND ROSE OVERLAYS

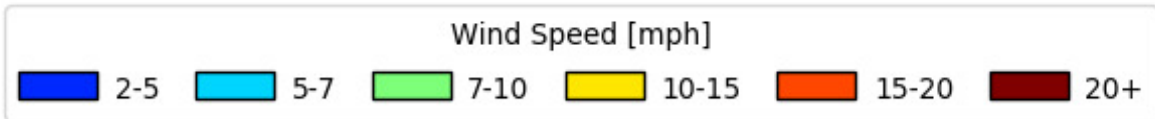
[BAZ] NEW BRAUNFELS MUNI APT (WAS 3R5)  
Windrose Plot [All Year]  
Period of Record: 22 Dec 2017 - 22 Mar 2018



Summary  
n: 3252  
Missing: 53  
Calm: 8.8%

Avg Speed: 9.1 mph

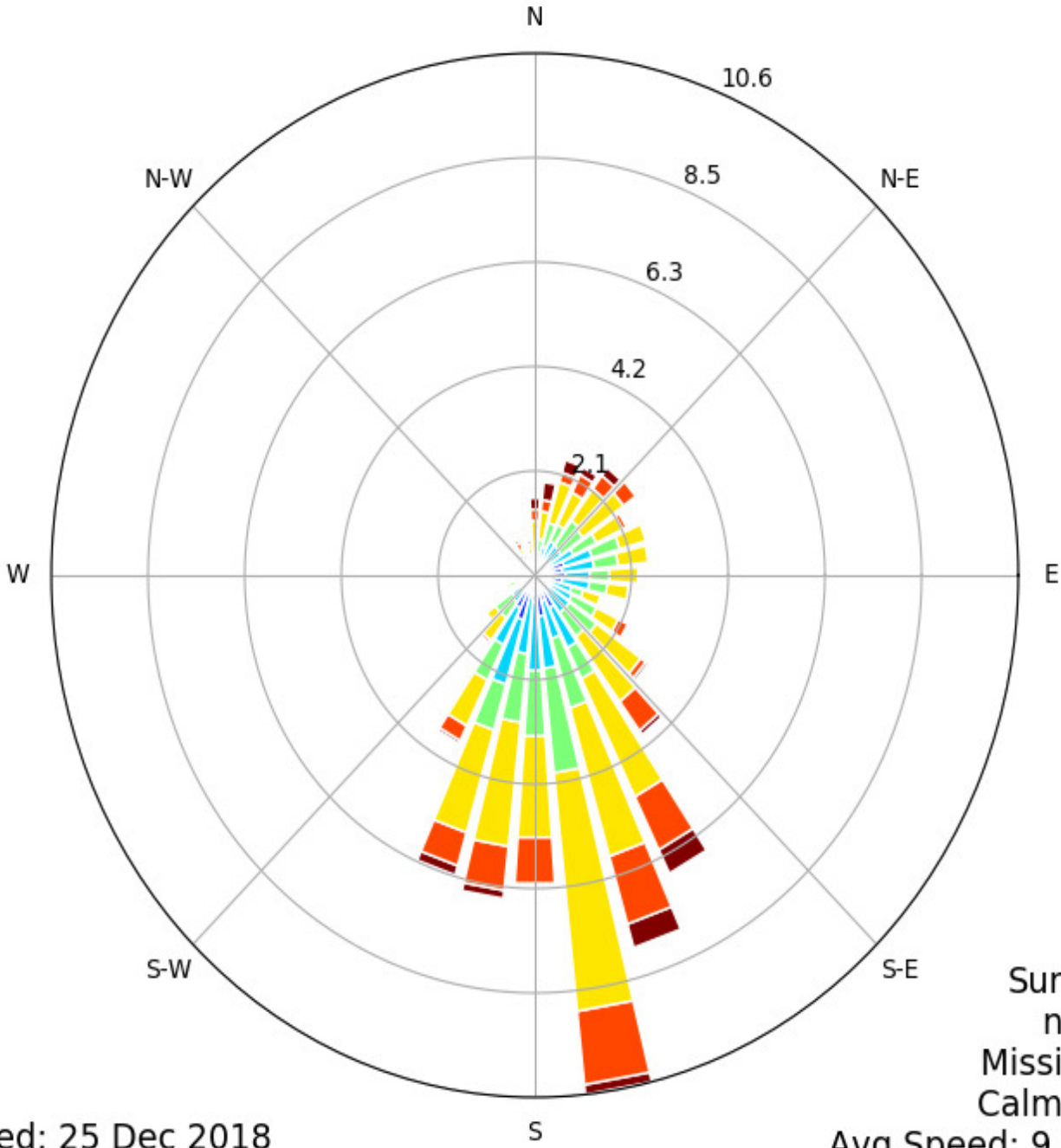
Generated: 25 Dec 2018



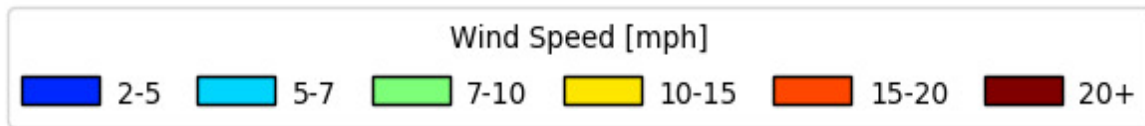
# QUARTERLY WIND ROSE OVERLAYS



[BAZ] NEW BRAUNFELS MUNI APT (WAS 3R5)  
Windrose Plot [All Year]  
Period of Record: 22 Mar 2018 - 22 Jun 2018



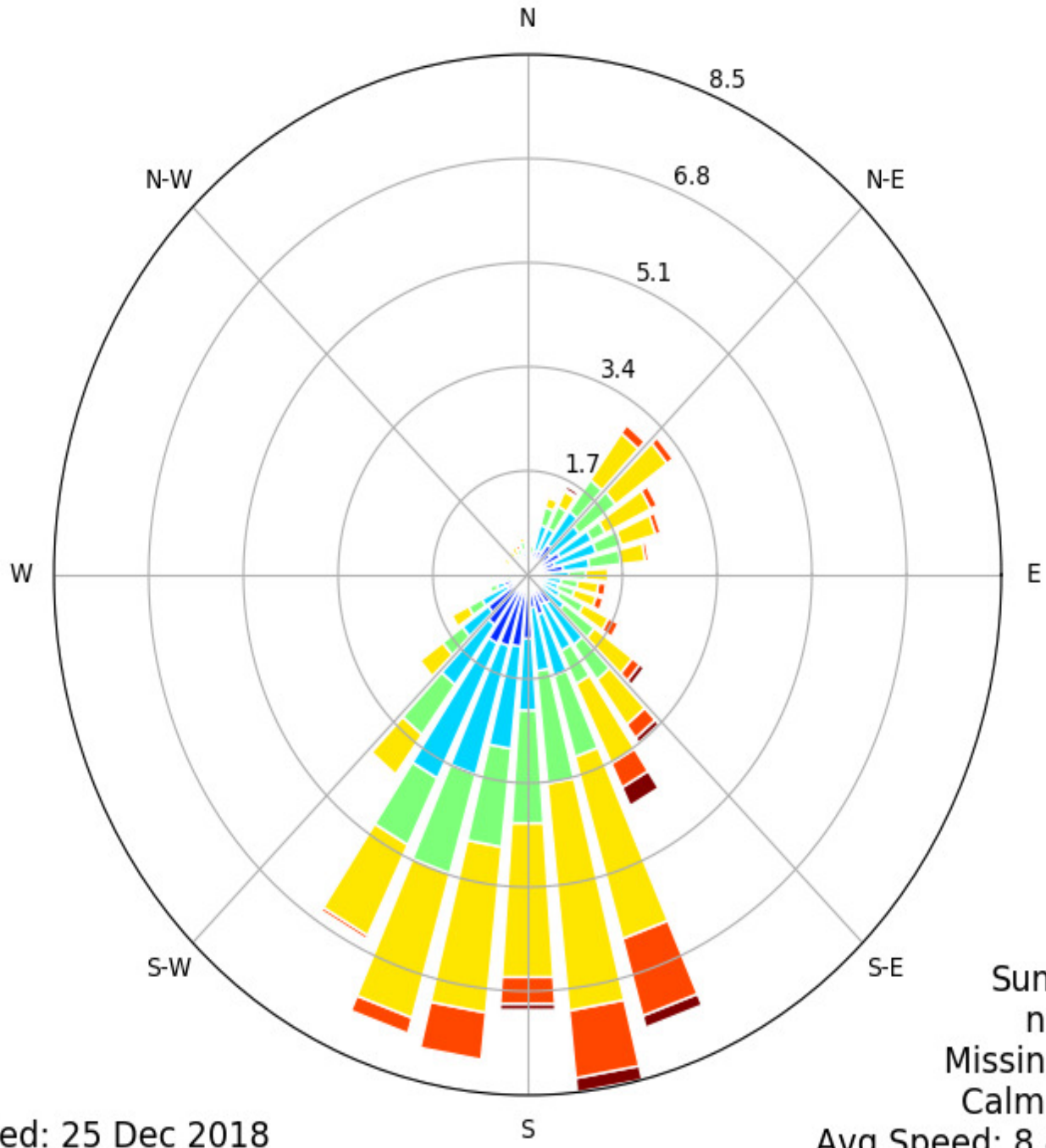
Generated: 25 Dec 2018



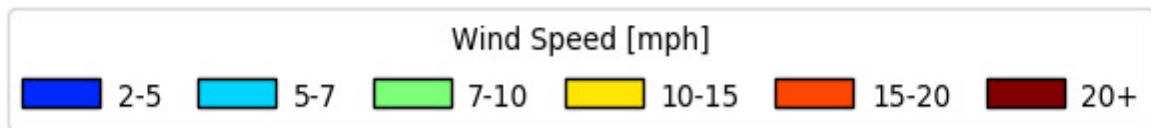
# QUARTERLY WIND ROSE OVERLAYS



[BAZ] NEW BRAUNFELS MUNI APT (WAS 3R5)  
Windrose Plot [All Year]  
Period of Record: 22 Jun 2018 - 22 Sep 2018



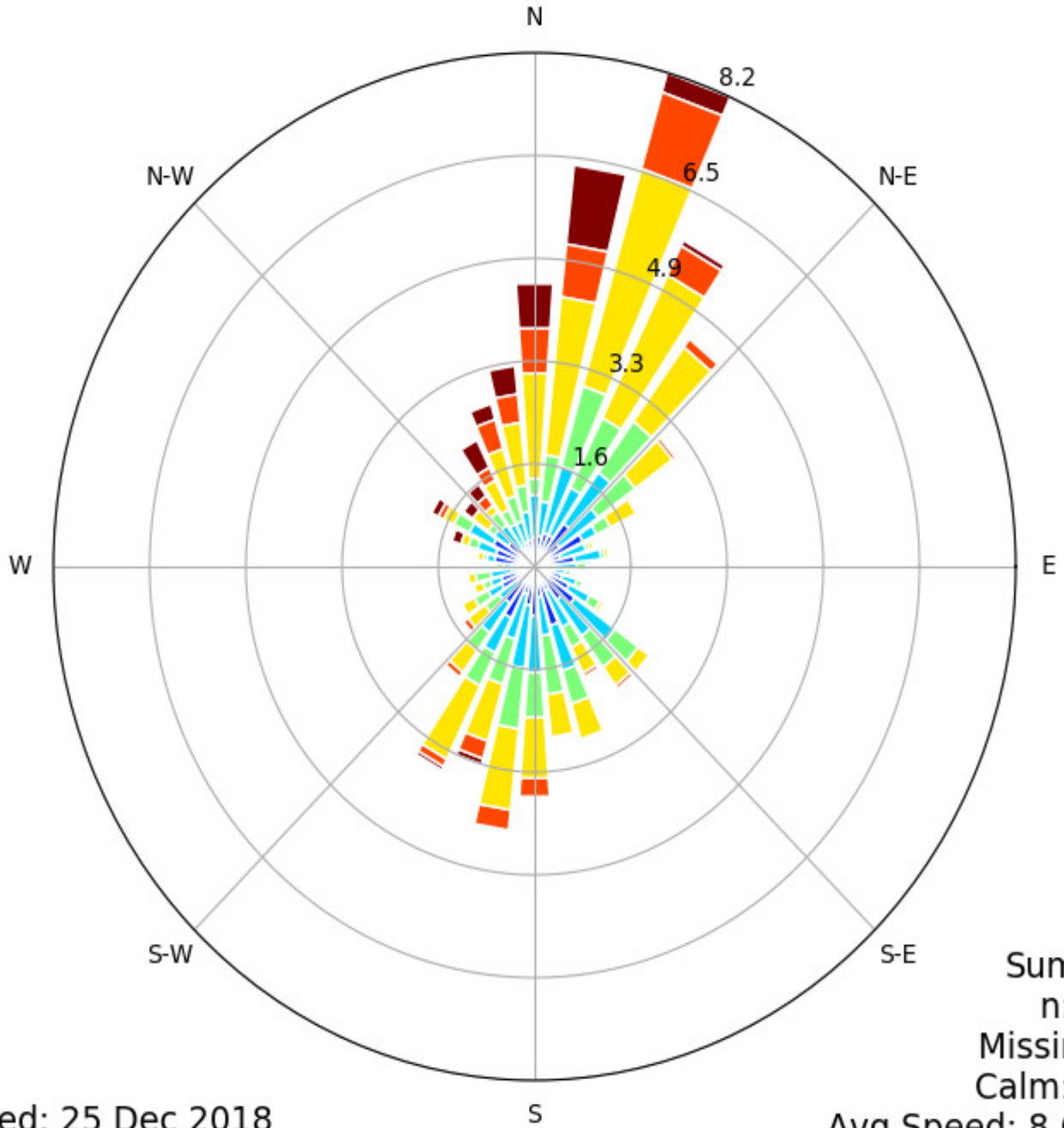
Generated: 25 Dec 2018



# QUARTERLY WIND ROSE OVERLAYS



[BAZ] NEW BRAUNFELS MUNI APT (WAS 3R5)  
Windrose Plot [All Year]  
Period of Record: 22 Sep 2018 - 22 Dec 2018



Generated: 25 Dec 2018

