



# KITIMAT AIRSHED GROUP

Quarterly Air Quality Data Reports 2022

April – June 2022

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# Kitimat Airshed Group Society

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Quarterly Data Summary Reports for April 1 to June 30, 2022

Our second quarterly data summary report includes ambient air quality stations located in Kitimat, Haisla Village and Terrace. These reports are automatically generated using unverified data extracted from the BC Air Data Archive (Envista database) managed by the Ministry of Environment and Climate Change Strategy (BC ENV). Summary reports will be posted quarterly with the purpose of providing an overview on the status of air quality in the Kitimat Terrace airshed. These reports are reviewed and elaborated on by the Data Review Committee.

During this quarter, Rio Tinto's aluminum smelter was operating at approximately 29% production capacity with the carbon process facilities shut down. The reduced production capacity for the smelter is a result of a 2021 labor dispute that was resolved in early October. Smelter restart activities commenced in May 2022 and will continue to year end. At this time KAG does not have the air quality reports from Trinity Consultants for the air quality station notes. Trinity Consultants maintains and operates the air quality stations for Rio Tinto.

Other notable activities in the Kitimat airshed are the ongoing construction at LNG Canada's project site, the construction of the Haisla bridge replacement project and the visibility of Alaskan wildfire smoke in Kitimat and Terrace during the month of June.

Submitted by Brittany Bayne  
Kitimat Airshed Data Review Committee



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Automated Data Summary for  
**Kitimat Haisla Village**  
**2022 Q2**

Provided to the Kitimat Airshed Group by the  
B.C. Ministry of Environment and Climate Change Strategy

Generated:  
9 February 2023

**Note**

This report is generated automatically and contains unvalidated data.

# Kitimat Haisla Village

## 2022 Q2

Parameter	Unit	Avg Prd	Obj	Excd	Qtr Avg	Min	Max	Prd of Max	% Comp	Comp
SO2	ppb	1 H	70	0	0.0	0.0	3.6	2022-04-28 11:00:00	95.0	Y
PM2.5	ug/m3	1 H			1.0	0.0	98.0	2022-05-19 13:00:00	95.7	Y
	ug/m3	24 H	25	0	1.0	0.2	9.0	2022-06-15	100.0	Y
Wind spd	m/s	1 H			3.0	0.0	9.4	2022-04-05 14:00:00	96.2	Y
Temp	°C	1 H			10.0	-2.1	26.3	2022-06-27 17:00:00	96.5	Y

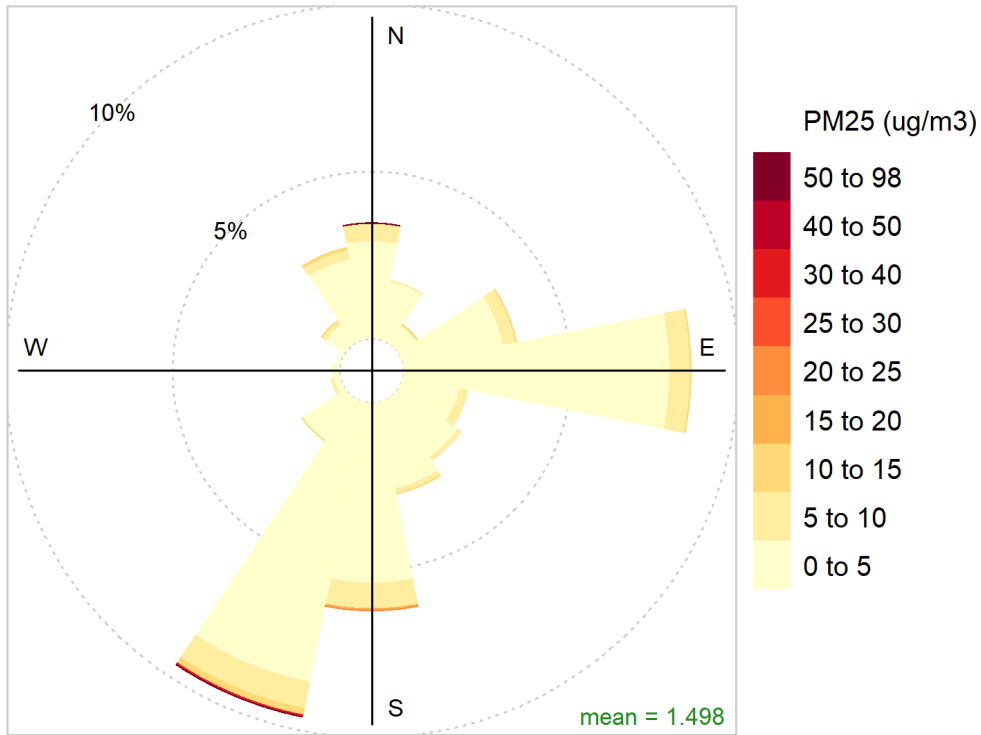
Avg = Average; Comp = Completeness; Excd = number of exceedances; Obj = Air quality objective; Prd = Period; Qtr = Quarter

Comp threshold is 60%

Parameter	Conversion	Unit	Notes
SO2	1 : 2.62	ppb : ug/m3	
PM2.5			
Wind spd			
Temp			



PM2.5 pollution rose  
Kitimat Haisla Village - 2022 Q2





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Automated Data Summary for

# Kitimat Haul Road 2022 Q2

Provided to the Kitimat Airshed Group by the  
B.C. Ministry of Environment and Climate Change Strategy

Generated:  
9 February 2023

**Note**

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# Kitimat Haul Road

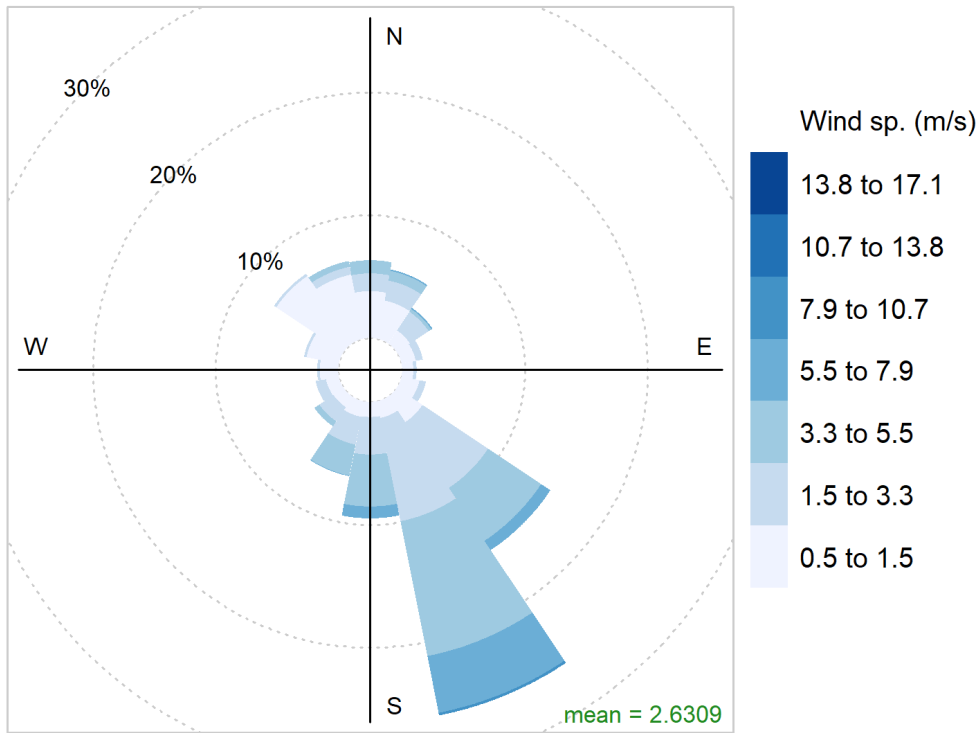
## 2022 Q2

Parameter	Unit	Avg Prd	Obj	Excd	Qtr Avg	Min	Max	Prd of Max	% Comp	Comp
SO2	ppb	1 H	70	0	1.0	0.0	23.9	2022-06-18 21:00:00	94.5	Y
HF	ppb	1 H	63	0	0.0	0.0	1.3	More than 5 occurrences (n = 32)	79.2	Y
	ppb	24 H								
PM2.5	ug/m3	1 H	25	0	2.0	0.0	66.0	2022-05-22 11:00:00	94.3	Y
	ug/m3	24 H								
Wind spd	m/s	1 H			2.0	0.0	8.6	2022-04-01 16:00:00	96.6	Y
Temp	°C	1 H			10.0	-2.9	28.9	2022-06-27 14:00:00	99.9	Y

Avg = Average; Comp = Completeness; Excd = number of exceedances; Obj = Air quality objective; Prd = Period; Qtr = Quarter  
Comp threshold is 60%

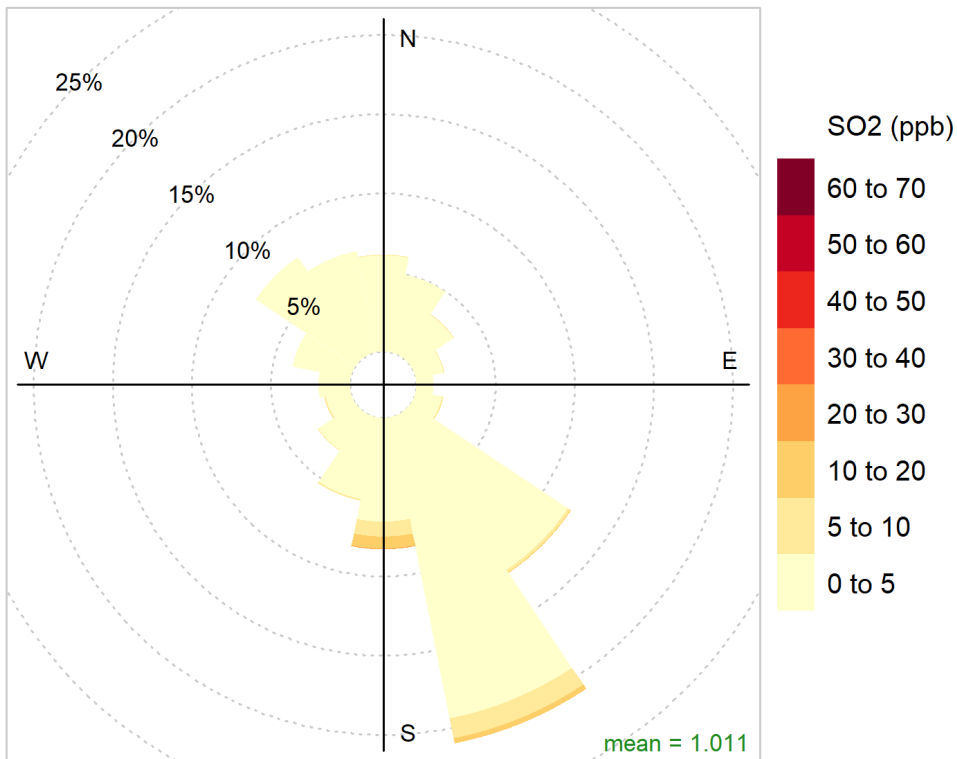
Parameter	Conversion	Unit	Notes
SO2	1 : 2.62	ppb : ug/m3	
HF	1 : 0.82	ppb : ug/m3	
PM2.5			
Wind spd			
Temp			

Windrose  
Kitimat Haul Road - 2022 Q2

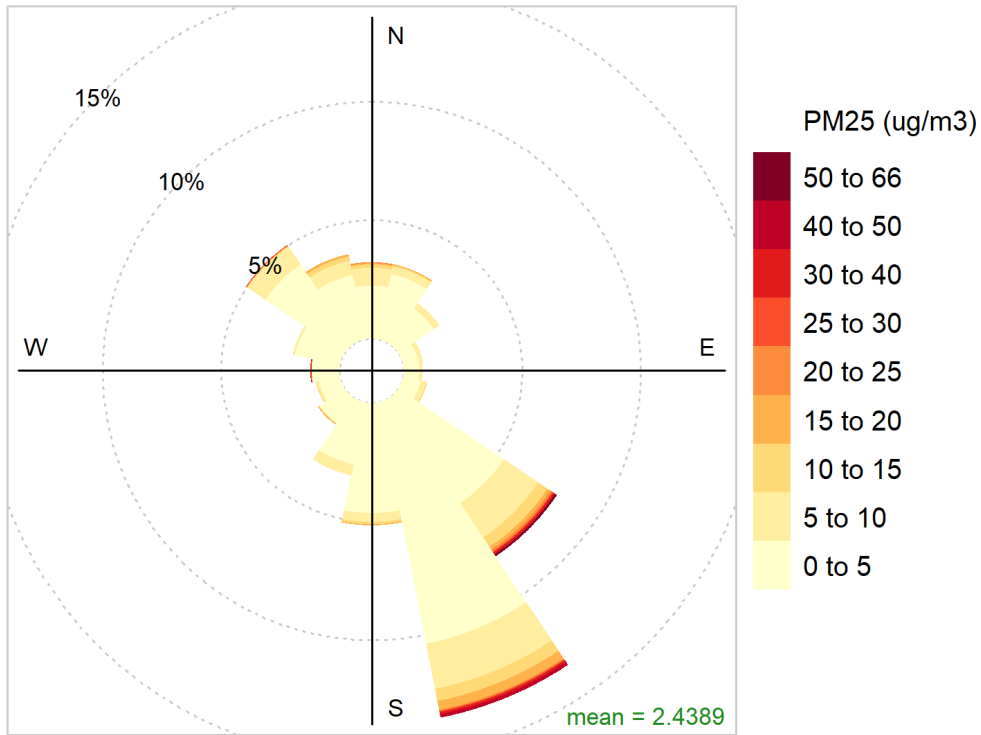


calms = 11.28%

SO2 pollution rose  
Kitimat Haul Road - 2022 Q2



PM2.5 pollution rose  
Kitimat Haul Road - 2022 Q2





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Automated Data Summary for  
**Kitimat Industrial Ave**  
**2022 Q2**

Provided to the Kitimat Airshed Group by the  
B.C. Ministry of Environment and Climate Change Strategy

Generated:  
9 February 2023

**Note**

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## Kitimat Industrial Ave

### 2022 Q2

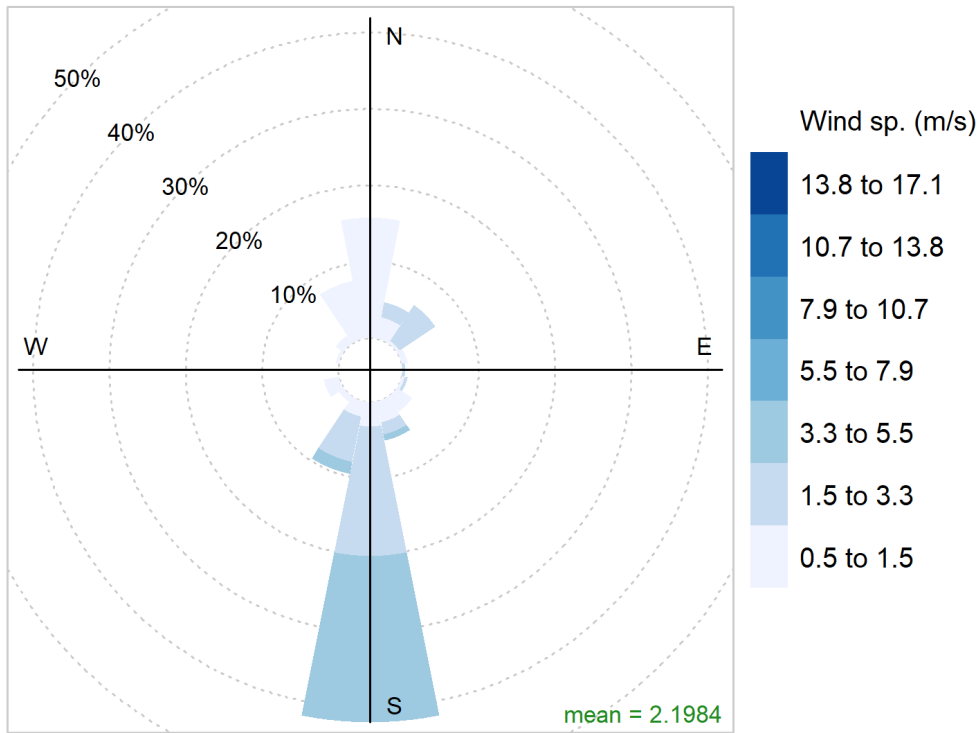
Parameter	Unit	Avg Prd	Obj	Excd	Qtr Avg	Min	Max	Prd of Max	% Comp	Comp
SO2	ppb	1 H	70	0	1.0	0.0	8.9	2022-04-25 09:00:00	95.4	Y
Wind spd	m/s	1 H			2.0	0.5	5.5	2022-06-21 17:00:00	11.6	N
Temp	°C	1 H			9.0	-3.7	29.7	2022-06-27 14:00:00	93.5	Y
Humidity	% RH	1 H			73.0	18.1	97.9	2022-04-08 02:00:00	93.5	Y

Avg = Average; Comp = Completeness; Excd = number of exceedances; Obj = Air quality objective; Prd = Period; Qtr = Quarter

Comp threshold is 60%

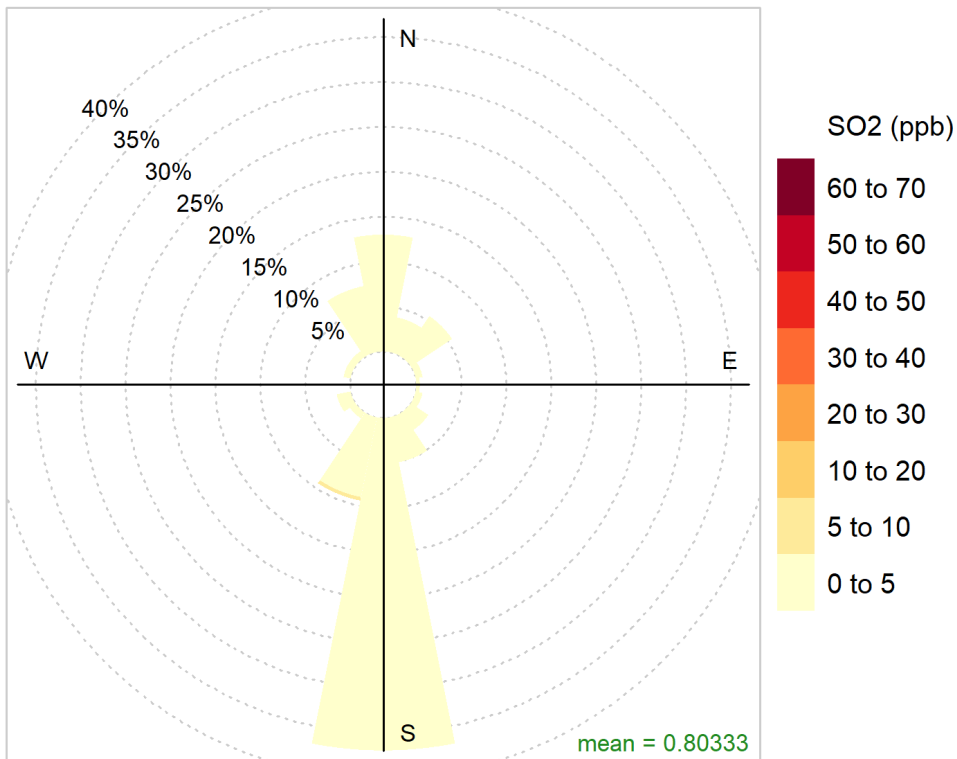
Parameter	Conversion	Unit	Notes
SO2	1 : 2.62	ppb : ug/m3	
Wind spd			
Temp			
Humidity			

Windrose  
Kitimat Industrial Ave - 2022 Q2



calms = 0.00%

SO2 pollution rose  
Kitimat Industrial Ave - 2022 Q2





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Automated Data Summary for

# Kitimat Riverlodge 2022 Q2

Provided to the Kitimat Airshed Group by the  
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Generated:  
9 February 2023

**Note**

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# Kitimat Riverlodge

## 2022 Q2

Parameter	Unit	Avg Prd	Obj	Excd	Qtr Avg	Min	Max	Prd of Max	% Comp	Comp
SO2	ppb	1 H	70	0	0.0	0.0	6.3	2022-05-19 13:00:00	95.1	Y
HF	ppb	1 H	63	0	0.0	0.1	0.6	2022-04-17 19:00:00 2022-04-21 20:00:00	95.1	Y
	ppb	24 H			0.0	0.1	0.4	2022-04-17 2022-04-18 2022-04-21 2022-04-22	100.0	Y
PM2.5	ug/m3	1 H			2.0	0.0	38.0	2022-06-26 22:00:00	97.3	Y
	ug/m3	24 H	25	0	2.0	0.3	7.4	2022-06-27	100.0	Y
PM10	ug/m3	1 H			10.0	0.0	87.0	2022-06-07 21:00:00	99.3	Y
	ug/m3	24 H	50	0	10.0	2.0	29.6	2022-06-27	100.0	Y
Wind spd	m/s	1 H			2.0	0.0	7.0	2022-06-18 19:00:00	99.1	Y
Temp	°C	1 H			10.0	-3.1	29.6	2022-06-27 14:00:00	99.3	Y

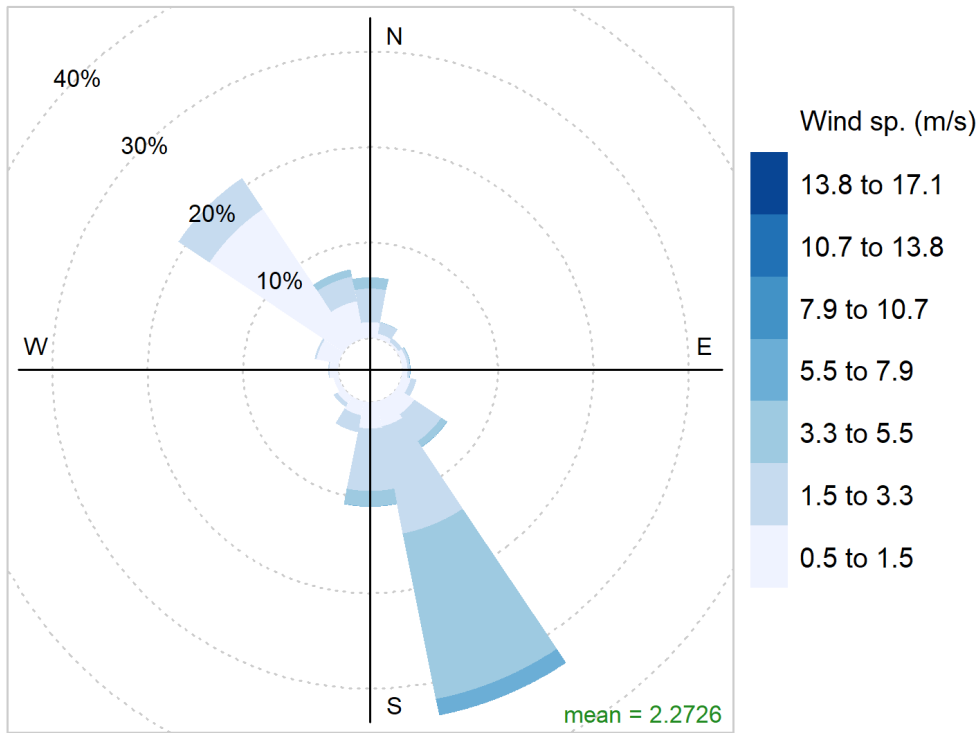
Avg = Average; Comp = Completeness; Excd = number of exceedances; Obj = Air quality objective; Prd = Period; Qtr = Quarter

Comp threshold is 60%

Parameter	Conversion	Unit	Notes
SO2	1 : 2.62	ppb : ug/m3	
HF	1 : 0.82	ppb : ug/m3	
PM2.5			
PM10			
Wind spd			
Temp			

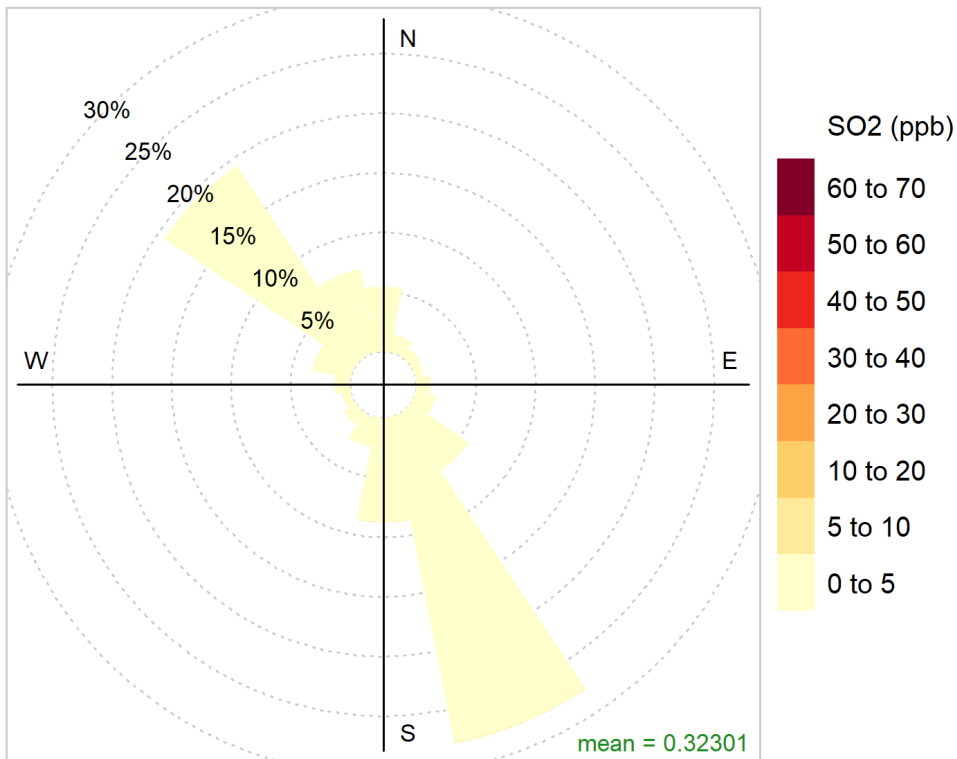


Windrose  
Kitimat Riverlodge - 2022 Q2

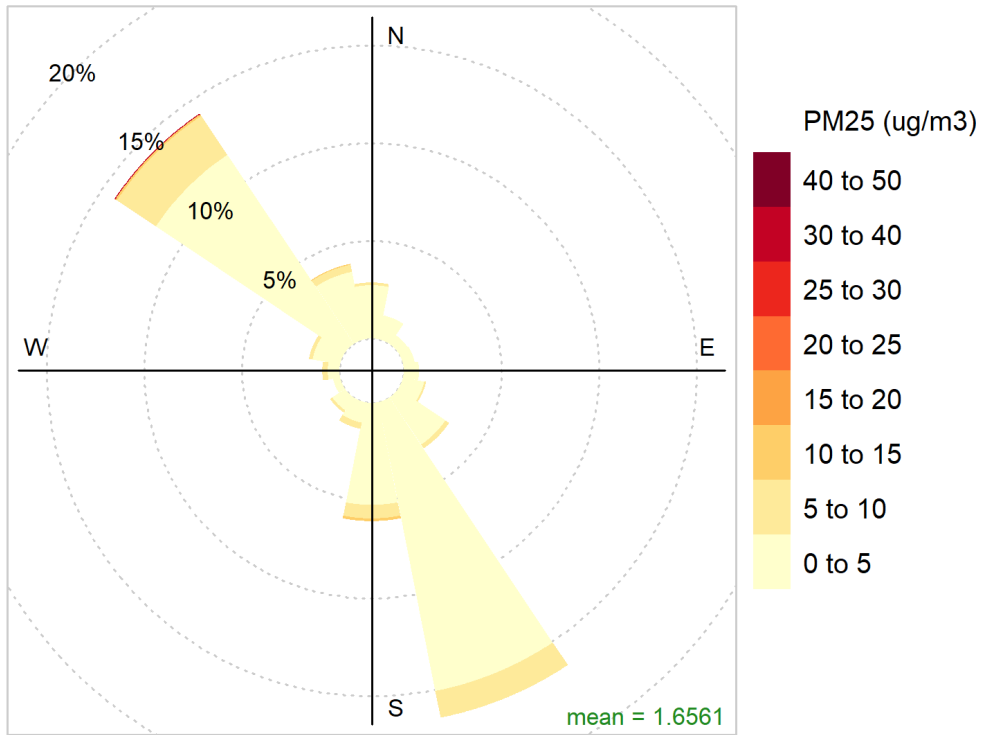


calms = 9.66%

SO2 pollution rose  
Kitimat Riverlodge - 2022 Q2



PM2.5 pollution rose  
Kitimat Riverlodge - 2022 Q2





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Automated Data Summary for

# Kitimat Whitesail 2022 Q2

Provided to the Kitimat Airshed Group by the  
B.C. Ministry of Environment and Climate Change Strategy

Generated:  
9 February 2023

**Note**

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# Kitimat Whitesail

## 2022 Q2

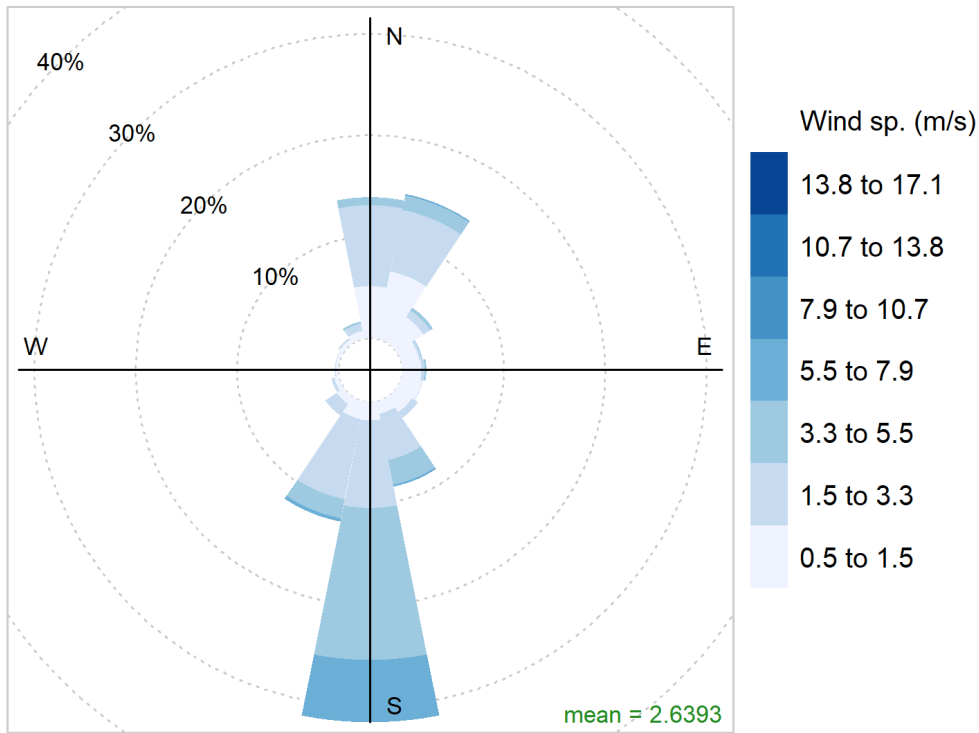
Parameter	Unit	Avg Prd	Obj	Excd	Qtr Avg	Min	Max	Prd of Max	% Comp	Comp
AQHI		1 H			NA	1	3	More than 5 occurrences (n = 6)	99.1	Y
NO2	ppb	1 H	60	0	1.0	0.0	12.8	2022-04-07 15:00:00	92.2	Y
SO2	ppb	1 H	70	0	0.0	-0.1	5.3	2022-04-01 10:00:00	93.3	Y
O3	ppb	1 H	82	0	23.0	0.3	43.0	2022-04-16 18:00:00	93.2	Y
PM2.5	ug/m3	1 H			4.0	0.0	20.0	2022-04-16 20:00:00	98.7	Y
	ug/m3	24 H	25	0	4.0	1.0	11.7	2022-06-15	98.9	Y
Wind spd	m/s	1 H			3.0	0.1	7.8	2022-06-07 21:00:00	100.0	Y
Temp	°C	1 H			9.0	-3.4	28.9	2022-06-27 17:00:00	100.0	Y
Humidity	% RH	1 H			74.0	21.5	97.0	2022-06-11 01:00:00	100.0	Y

Avg = Average; Comp = Completeness; Excd = number of exceedances; Obj = Air quality objective; Prd = Period; Qtr = Quarter

Comp threshold is 60%

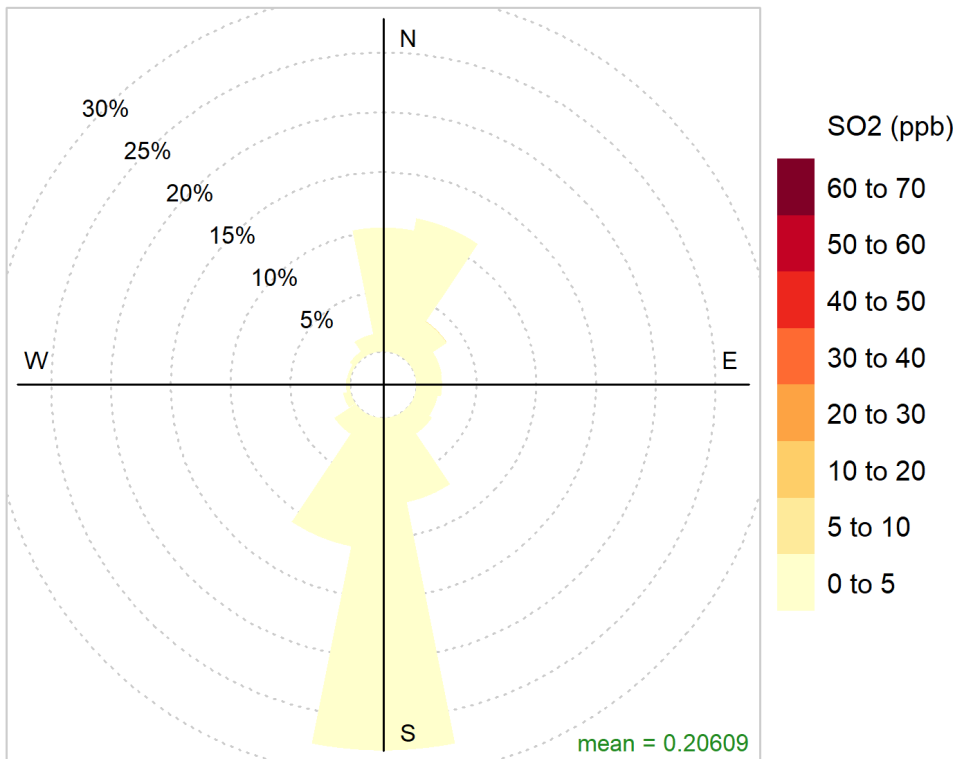
Parameter	Conversion	Unit	Notes
AQHI			
NO2	1 : 1.88	ppb : ug/m3	
SO2	1 : 2.62	ppb : ug/m3	
O3	1 : 1.96	ppb : ug/m3	
PM2.5			
Wind spd			
Temp			
Humidity			

Windrose  
Kitimat Whitesail - 2022 Q2

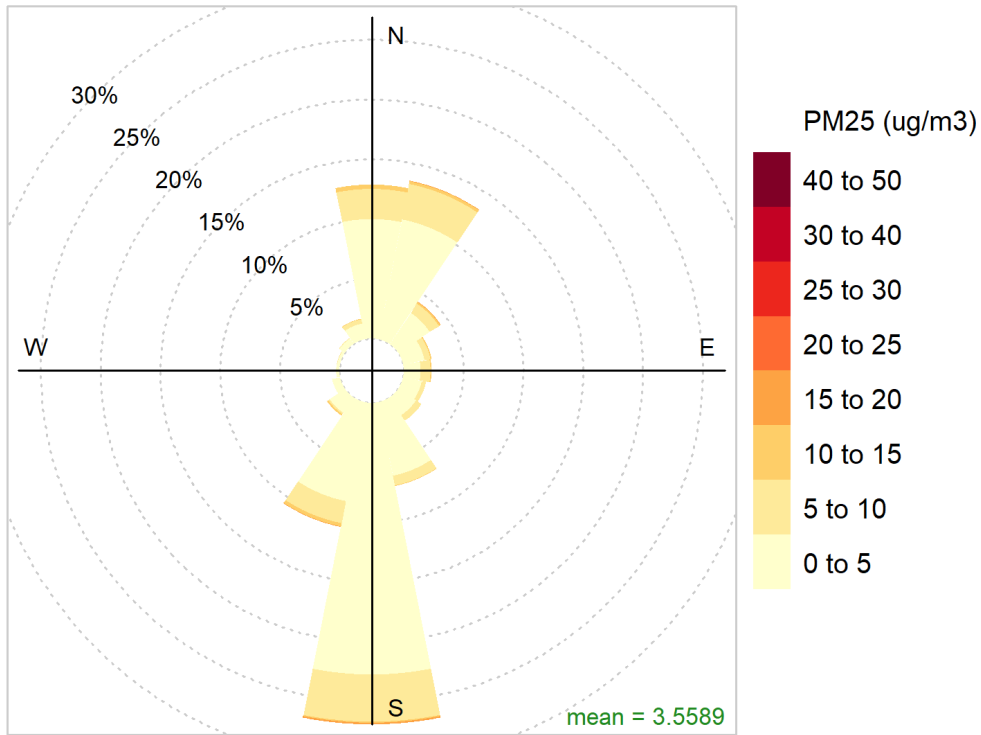


calms = 2.29%

SO2 pollution rose  
Kitimat Whitesail - 2022 Q2



PM2.5 pollution rose  
Kitimat Whitesail - 2022 Q2





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Automated Data Summary for

# Kitimat Yacht Club 2022 Q2

Provided to the Kitimat Airshed Group by the  
B.C. Ministry of Environment and Climate Change Strategy

Generated:  
9 February 2023

**Note**

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# Kitimat Yacht Club

## 2022 Q2

Parameter	Unit	Avg Prd	Obj	Excd	Qtr Avg	Min	Max	Prd of Max	% Comp	Comp
Wind spd	m/s	1 H			4.0	0.1	12.8	2022-06-16 14:00:00	100.0	Y
Temp	°C	1 H			9.0	-1.9	25.4	2022-06-27 12:00:00	100.0	Y

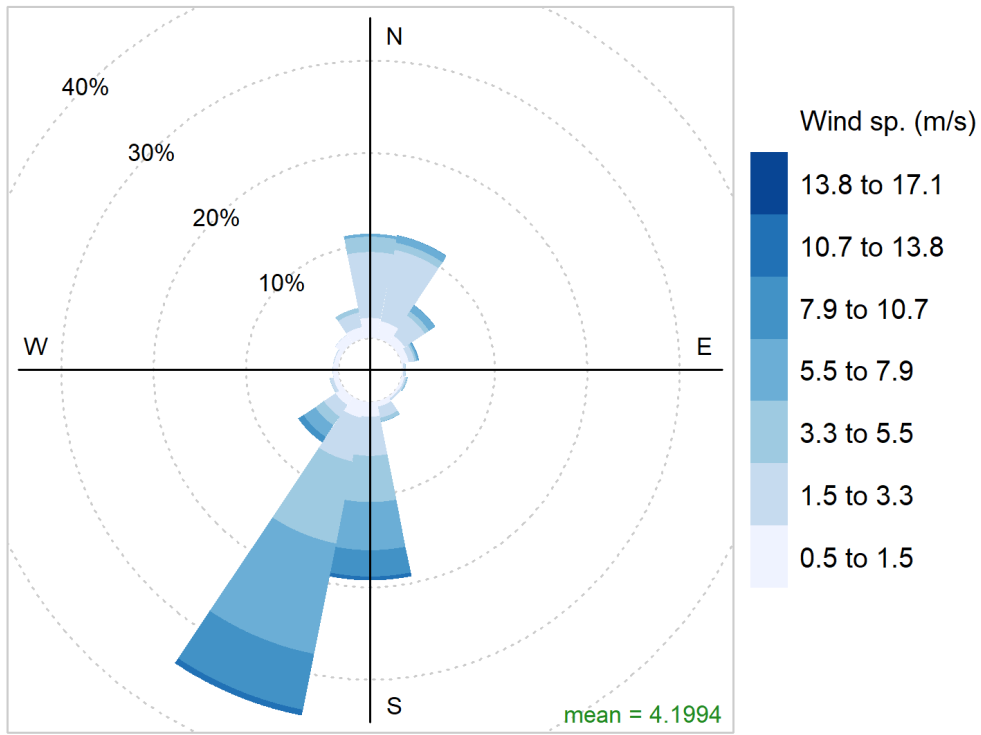
Avg = Average; Comp = Completeness; Excd = number of exceedances; Obj = Air quality objective; Prd = Period; Qtr = Quarter

Comp threshold is 60%

Parameter	Conversion	Unit	Notes
Wind spd			
Temp			



Windrose  
Kitimat Yacht Club - 2022 Q2



calms = 0.27%



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Automated Data Summary for  
**Terrace Skeena Middle School**  
**2022 Q2**

Provided to the Kitimat Airshed Group by the  
B.C. Ministry of Environment and Climate Change Strategy

Generated:  
9 February 2023

**Note**

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# Terrace Skeena Middle School

## 2022 Q2

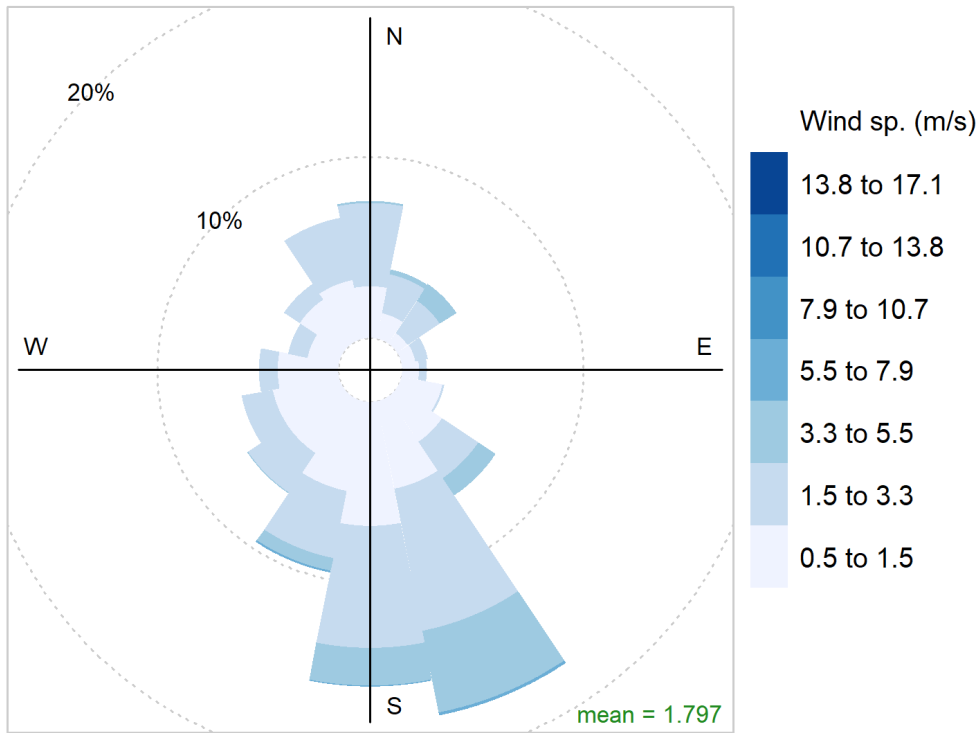
Parameter	Unit	Avg Prd	Obj	Excd	Qtr Avg	Min	Max	Prd of Max	% Comp	Comp
AQHI		1 H			NA	1	7	2022-04-30 20:00:00 2022-04-30 22:00:00 2022-05-20 17:00:00	79.4	Y
NO2	ppb	1 H	60	0	-0.0	-1.6	13.5	2022-04-16 07:00:00	75.5	Y
SO2	ppb	1 H	70	0	1.0	-0.1	1.4	2022-06-16 14:00:00	83.0	Y
O3	ppb	1 H	82	0	26.0	0.7	46.8	2022-04-18 13:00:00	83.0	Y
PM2.5	ug/m3	1 H			4.0	0.1	65.5	2022-04-30 22:00:00	79.3	Y
	ug/m3	24 H	25	0	4.0	0.8	18.4	2022-04-30	78.0	Y
Wind spd	m/s	1 H			2.0	0.0	6.3	2022-04-05 14:00:00	99.6	Y
Temp	°C	1 H			11.0	-4.1	31.8	2022-06-27 17:00:00	99.9	Y
Humidity	% RH	1 H			65.0	13.5	99.0	2022-04-26 07:00:00	99.9	Y

Avg = Average; Comp = Completeness; Excd = number of exceedances; Obj = Air quality objective; Prd = Period; Qtr = Quarter

Comp threshold is 60%

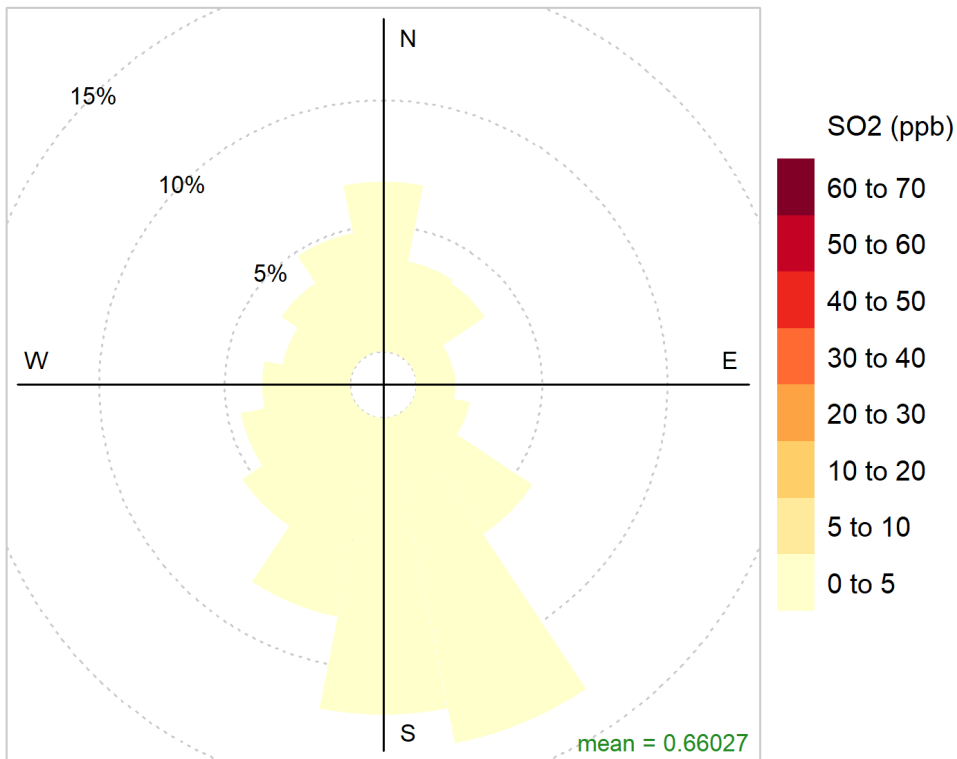
Parameter	Conversion	Unit	Notes
AQHI			
NO2	1 : 1.88	ppb : ug/m3	
SO2	1 : 2.62	ppb : ug/m3	
O3	1 : 1.96	ppb : ug/m3	
PM2.5			
Wind spd			
Temp			
Humidity			

Windrose  
Terrace Skeena Middle School - 2022 Q2



calms = 15.49%

SO2 pollution rose  
Terrace Skeena Middle School - 2022 Q2



PM2.5 pollution rose  
Terrace Skeena Middle School - 2022 Q2

