



# Weather Routing Inc. (WRI)'s Climate Derived Voyage Report

## Voyage Details

Departure **QUEPOS** Climatological Month **February** Route Description **most coastal**  
 Destination **SAN FRANCISCO CA** Intended Speed (kts) **15.0**

## Monthly Climatological Calculations

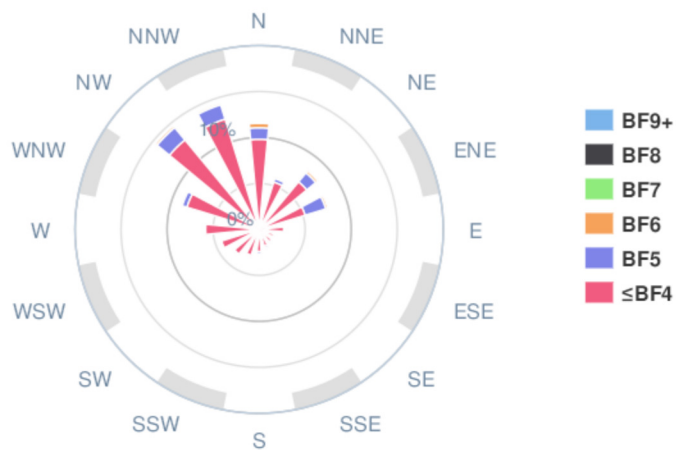
Total Distance (nm) **2,953.7**  
 Avg Weather Factor (kts) **-0.07**  
 Avg Current Factor (kts) **-0.07**  
 Avg Speed (kts) **14.9**  
 Avg Cruising Hours **198.6**

Distance in ECA (nm) **431.5**  
 Wind Speed Constraint (kts) **25**  
 Wave Height Constraint (m) **10**

### % Frequency Winds/Seas

<BF4	<b>85%</b>	<2m	<b>86%</b>
BF5	<b>10%</b>	3m	<b>9%</b>
BF6	<b>3%</b>	4m	<b>3%</b>
BF7	<b>1%</b>	5m	<b>1%</b>
BF8+	<b>1%</b>	6m+	<b>1%</b>

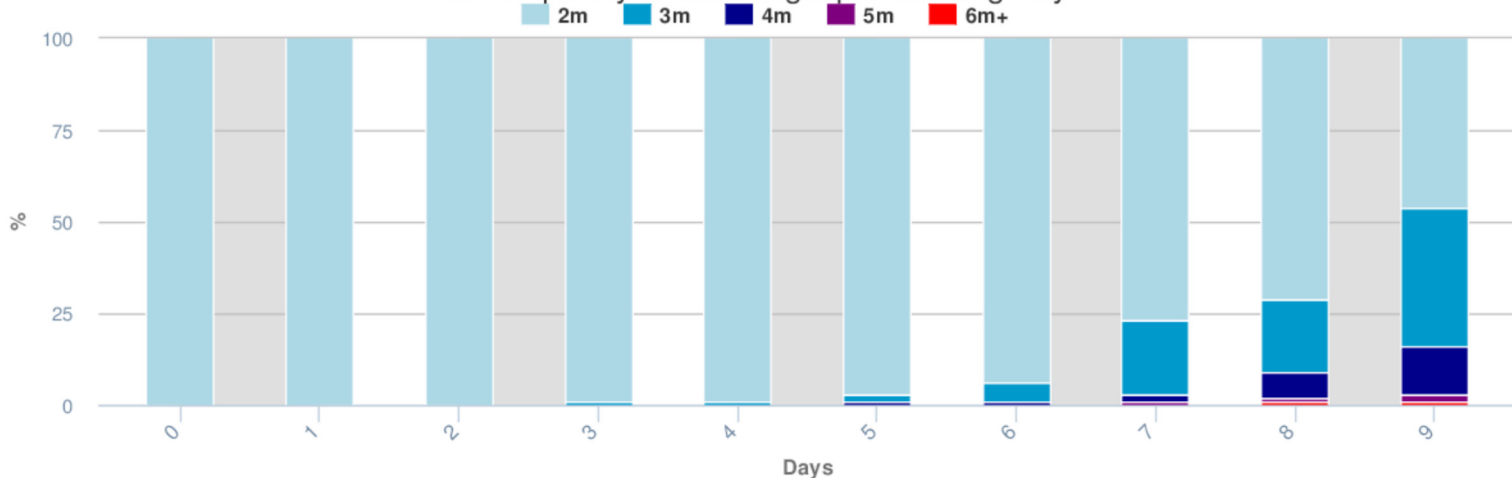
## Climatology of Wind Direction and Speed Frequency



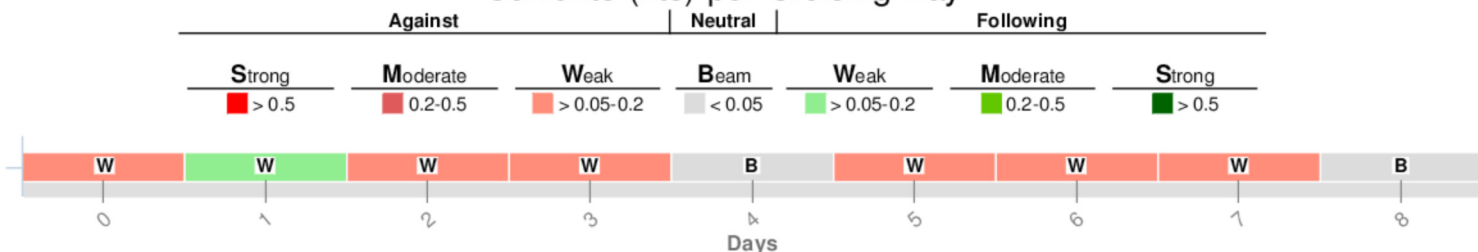
	≤BF 4	BF 5	BF 6	BF 7	BF 8	BF 9+
N	9.78%	1.25%	0.51%	0.17%	0.01%	0%
NNE	5.37%	0.4%	0.18%	0.04%	0%	0%
NE	6.71%	1.26%	0.28%	0.01%	0%	0%
ENE	5.22%	2.35%	0.24%	0%	0%	0%
E	2.66%	0.15%	0%	0%	0%	0%
ESE	1.63%	0.03%	0.01%	0%	0%	0%
SE	1.72%	0.11%	0.04%	0.01%	0%	0%
SSE	1.9%	0.22%	0.13%	0.02%	0%	0%
S	2.39%	0.23%	0.07%	0.01%	0%	0%
SSW	2.93%	0.14%	0.04%	0%	0%	0%
SW	3.47%	0.1%	0.02%	0%	0%	0%
WSW	4.27%	0.09%	0.01%	0%	0%	0%
W	5.81%	0.15%	0.01%	0%	0%	0%
WNW	8.2%	0.54%	0.08%	0%	0%	0%
NW	12.63%	1.74%	0.24%	0.01%	0%	0%
NNW	12.54%	1.63%	0.2%	0.02%	0%	0%

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## % Frequency of Sea Height per Cruising Day



## Currents (kts) per Cruising Day





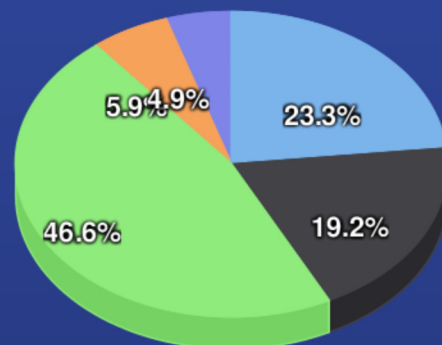
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### % Duration of Winds (Beaufort Force) Direction Relative to Vessel

	<=1	2	3	4	5	6	7	8	9	10=>	Total
Head	1.4	5.3	7.8	6.2	2.4	0.3					23.3
Head Qtr	1.4	5.2	7.2	4.1	1.2	0.2					19.2
Beam	4.6	13.1	12.6	8.7	6	1.4	0.2				46.6
Aft Qtr	0.8	1.8	1.6	1.2	0.4	0.1					5.9
Follow	0.8	1.7	1.3	0.7	0.3	0.1					4.9
Total	8.9	27	30.4	20.9	10.4	2.1	0.3				100



### % Duration of Sea Heights (meters) Direction Relative to Vessel

	<=1	2	3	4	5	6	7	8	9	10=>	Total
Head	6.1	6.7	0.8	0.2							13.8
Head Qtr	6.2	10.5	4.2	0.9	0.1						21.9
Beam	51.6	8	1.9	0.4	0.1						62.1
Aft Qtr	1.6	0.2									1.8
Follow	0.2	0.1									0.3
Total	65.7	25.5	7	1.5	0.2						100

