

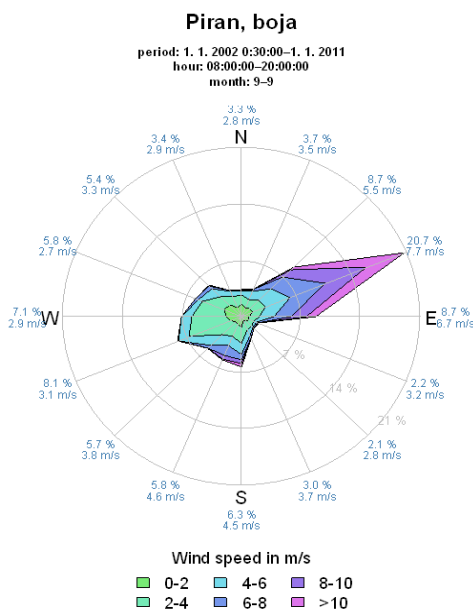
## WEATHER and CLIMATE

General: September is one of the most pleasant months in Portorož as long the weather is concerned. The hottest summer days are over but the weather can be still nice and warm. The average maximum daily temperature is 23.9° C. Even if September is the month with the highest monthly precipitation average (120 mm of precipitation), this events are rather short lasting and intensive. The average number of days with rain above 10 mm/day is 3.4. The atmosphere is already getting more stable thus the number of thunderstorms is relatively small (3.6 per month comparing with 8.2 in July). The precipitation events and thunderstorms are mainly associated with the passages of cold fronts which are getting more frequent comparing with summer months.

Average maximum daily temperature (°C)	23.9
Average minimum daily temperature (°C)	13.0
Average No. of days with the max. temp. above 25°C	10
Average monthly sunshine duration (hours)	223
Average monthly precipitation (mm)	120.5

**Table 1:** Values for Portorož (September), period 1971-2000

Winds: The most relevant wind data for Portorož is the one from oceanographic and meteorological buoy Vida located few miles from the racing area in front of Piran. The wind rose from meteorological buoy indicates that most frequent winds are sea breezes from WSW to NW. The general direction of the sea breeze depends on the general pressure gradient. It varies between WSW to NW. The sea breeze usually starts around 11 am, is the strongest around 2pm and it dies between 6 and 7pm. The strength of the sea breeze is usually from 8 to 14 kts. Land breezes in the morning are generally weak, stronger after the Bora episodes.



**Figure 1:** The wind rose for the daily hours from Buoy Vida located few miles from the racing area. Period: September 2001-2010

Stronger gradient winds are expected from two dominant directions. S (SE in the bay) – jugo (Scirocco in Italian) and mainly from NE (Bora).

SE-S winds are normally blowing before the approach of the cold fronts. Sometimes they mix with sea breeze resulting to the sea breeze from SW.

Bora is associated with the period after the passage of cold fronts and contrary to the winter and spring months don't last for longer. The longer episodes with Bora are associated with lows in the N Adriatic but their appearance is quite rare in September. Bora is a gusty wind and gusts can reach more than 30 kts.

The North Adriatic Sea is still quite warm, the average temperature is around 21 deg. C. Sea can get temporary colder after the intensive Bora episodes, but it regains the normal temperature in few days.

#### About the Author

Jure Jerman Ph.D., has graduated in 1994 at Faculty of mathematics and physics, University of Ljubljana. The same year he was employed in the Hidrometeorological Department of Republic of Slovenia (now Environmental Agency of R of Slovenia). His field of work and research is numerical modelling of weather, he is also a member of international project for weather forecasting "Aladin". He has sailed in many regattas (World and European Championships in Soling, Student World Championships, etc.) and has been a meteo consultant to many world renowned crews.