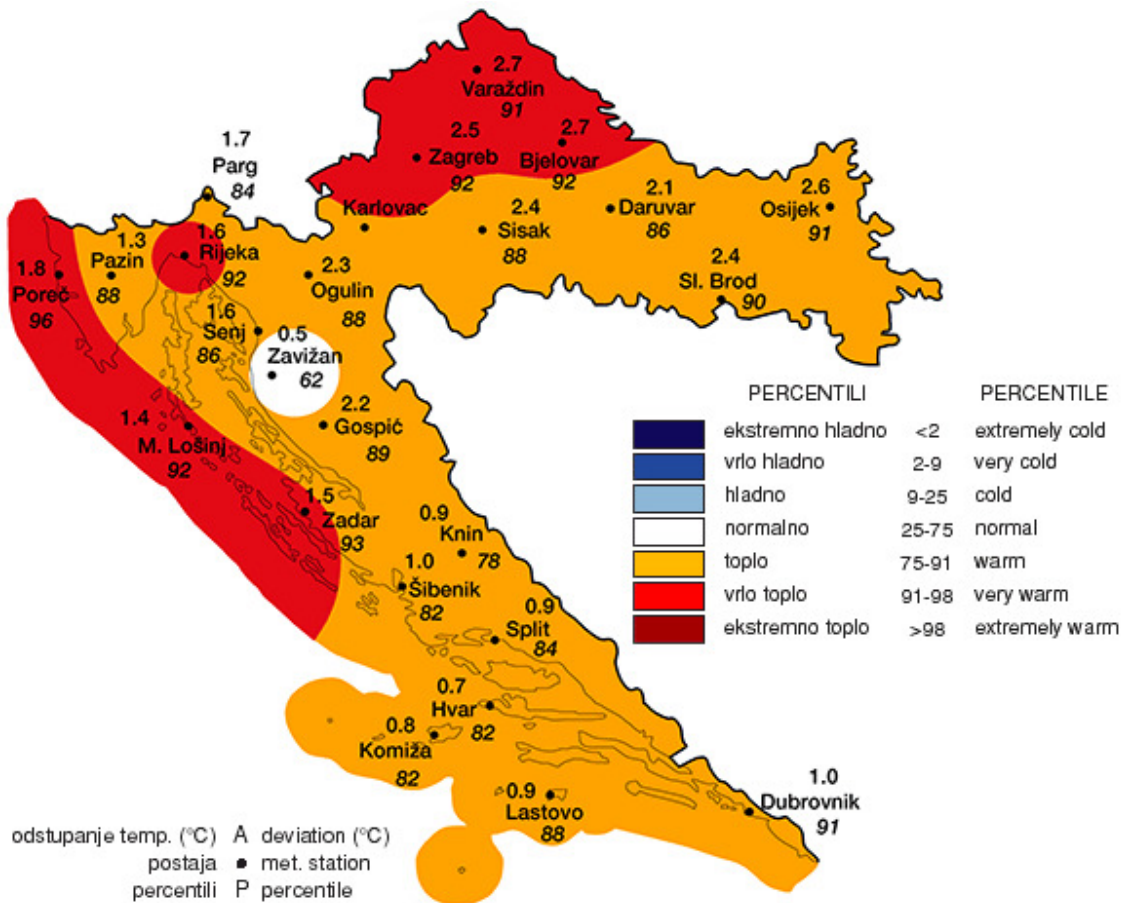


Climate Report for Croatia for Winter 2014/2015

► Air temperature anomalies for Croatia in winter 2014/2015

During the winter 2014/2015 the average winter air temperatures (December, January, February) were above the multi-annual average (1961-1990). Corresponding air temperature anomalies for the winter 2014/2015 were within the range from 0.5°C to 2.7°C.

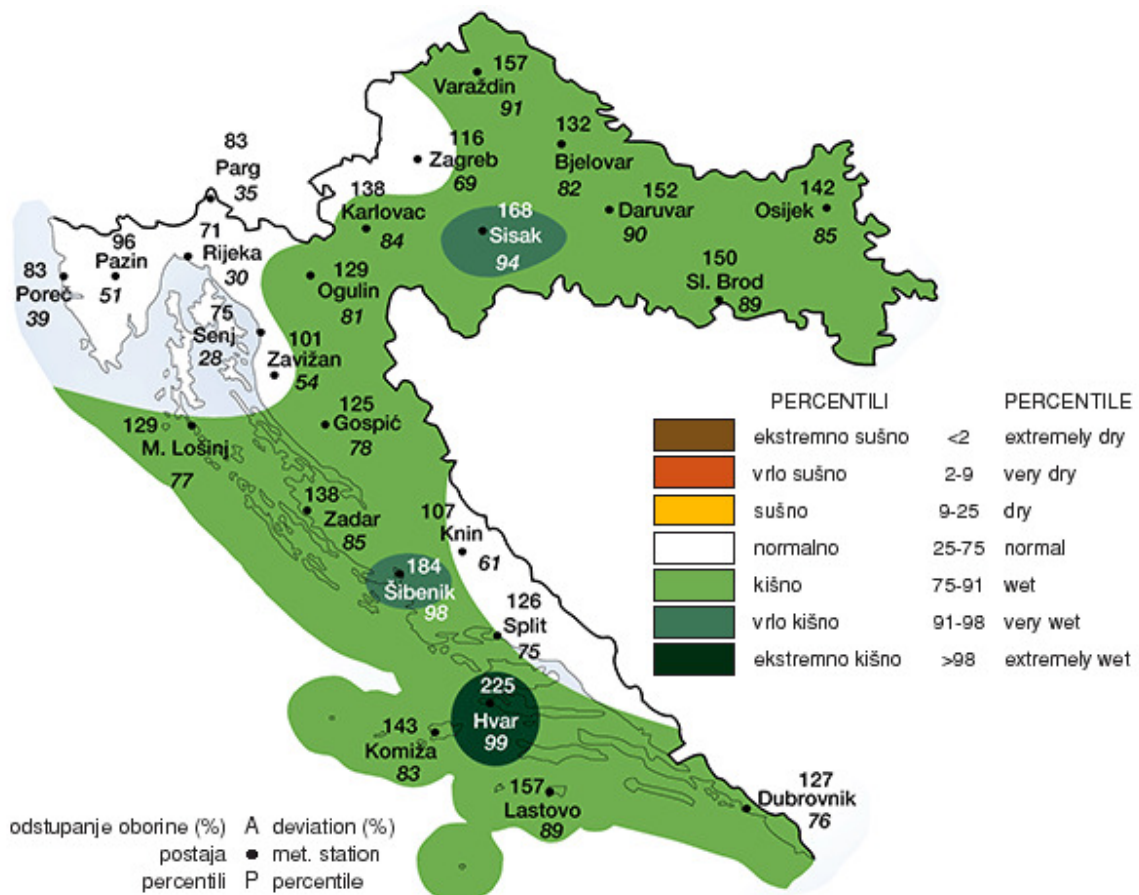
According to percentile ranks and classification ratings, thermal conditions in Croatia for the winter 2014/2015 have been classified by following categories: **normal** (Zavižan), **very warm** (part of Northern Croatia as well as part of the Northern and Middle Adriatic) and **warm** (the remaining part of Croatia).



► Precipitation amounts for Croatia in winter 2014/2015

An analysis of the precipitation amounts for the winter 2014/2015 expressed as percentages (%) of 1961-1990 average, shows that these precipitation amounts were mainly above the average. Corresponding precipitation amounts for the winter 2014/2015 were within the range from 71% to 225% of multi-annual average for this season.

According to percentile ranks and classification ratings, the precipitation amounts for the winter 2014/2015 have been described by following categories: **normal** (part of the Northern Adriatic and part of Northwestern Croatia as well as the wider area of Knin and Split), **very wet** (wider area of Sisak and Šibenik), **extremely wet** (Hvar) and **wet** (the remaining part of Croatia).



SEECOF-12 CLIMATE OUTLOOK VALIDATION

- **Air temperature anomalies for Croatia in winter 2014/2015**

According to the SEECOF-12 climate outlook, for all Croatian territory, there was a chance for near normal or warmer than normal winter season. Probability for exceeding the average winter season temperature was 40%.

The winter season in Croatia according to multi-annual average 1961-1990 was almost for all territory above normal. In relation to the multi-annual average 1981-2010, the warmer anomaly is a bit less, with the anomalies range from 0.8° to 2.1°C for the 5 biggest stations in Croatia (Zagreb, Osijek, Gospić, Rijeka and Split). We can conclude that the outlook was satisfyingly correct.

- **Precipitation amounts for Croatia in winter 2014/2015**

According to the SEECOF-12 climate outlook, the precipitation along the Adriatic coast and belonging hinterland was forecasted to be near and above average (35% and 40% respectively). In the remaining part of Croatia the precipitation had no preference for any climate defined categories, with an equal probability of all three terciles.

The actual precipitation amounts were mainly above thirty-year average 1961-1990, especially along the central and south Adriatic Sea with belonging coast, the mountainous part and mainly better part of continental Croatia. Taking into account that the newer climatology 1981-2010 is generally similar or little bit drier than the older one, we can say that the positive anomaly along the central and south Adriatic Sea with belonging coast is even more pronounced and the outlook was satisfying. We must emphasize that the signal for wet conditions in the central and eastern continental part of Croatia was missed. Apart from that, we can conclude that the forecast was relatively satisfying.

Country	Seasonal temperature (DJF)		Seasonal precipitation (DJF)		High Impact Events
	Observed	SEECOF-12 climate outlook for temperature	Observed	SEECOF-12 climate outlook for precipitation	
Croatia	Normal to Above normal	Above normal	<p>Above normal</p> <p>Normal (in the North Adriatic, hinterland of the Central Adriatic and the westernmost part of continental Croatia)</p>	<p>Normal or above normal (the Adriatic Sea and belonging hinterland)</p> <p>No predictive signal (continental part of Croatia)</p>	<p>In December, absolute monthly maximum (since 1981) of temperature was recorded in Makarska (Dalmatia); Tmax=21°C, on 3rd of December. Very low minimum temperatures were recorded on 30th and 31st December all over Croatia – the lowest temperature was measured in Slatina (east continental part) on 31st December (-21°C).</p> <p>Absolute daily maximum of rain (since 1894) was recorded on islad Hvar (Dalmatia) on 3rd December – 142,3mm/24h. Significant accumulations of rain (132 mm) were recorded from 4th to 6th December in Sibenik (Dalmatia). These days many floods and damages were recorded too.</p> <p>On 28th and 29th December heavy snowfall was recorded over continental part of Croatia – snow cover was between 10 and 50 cm high.</p> <p>During December a few “episodes” with gale force wind were recorded. Mean wind speed at Adriatic coast (mostly bora, NE wind) was around 24 m/s, and gusts up to 45 m/s (on 9th and 10th December, and from 28th to 31st December). In the mountains area, together with heavy snow, wind caused a lot of damages and traffic interruptions.</p>

					<p>Extreme weather conditions in January were connected mostly to precipitation and wind.</p> <p>On 11th January gale force bora (NE wind) was recorded in Dalmatia. Mean wind speed was between 17 and 25 m/s, and gusts were up to 40 m/s at station Split and up to 30 m/s in Dubrovnik. Strong wind caused demolition of trees, other damages and maritime traffic interruptions (ships, ferries and catamarans).</p> <p>On 18th and 19th January heavy rain was recorded in Dalmatia. On 19th January absolute daily maximum of rain (since 1997) was recorded in Metkovic (hinterland of Dalmatia) – 125mm/24 h. At same time gale force SE wind caused maritime traffic interruptions. Mean wind speed were between 17 and 25 m/s, gusts from 35 m/s (Dubrovnik) to 42 m/s (Prevlaka, South Adriatic).</p> <p>On 20th January thunderstorm with hail hits south Adriatic, especially Dubrovnik, where hail kept on the streets.</p> <p>On 29th and 30th January heavy rain was recorded over North Adriatic (up to 60 mm/24 h) and heavy snowfall in Gorski kotar (mountainous part) – new snow cover from 5 to 25 cm. A difficulties in traffic between inland and North Adriatic were noticed.</p> <p>At the same time gale force S and SW wind were recorded in Dalmatia. Mean wind speed was up to 20 m/s from Split to Dubrovnik, and gusts were from 23 to 33 m/s. Again maritime</p>
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				<p>traffic was interrupted and a lots of boardwalk was flooded (Split, Sibenik).</p> <p>In February heavy precipitation and gale force wind were recorded.</p> <p>On 5th and 6th February heavy snowfall was recorded over mountainous and west part of Croatia. New snow cover was between 20 and 55 cm high, and together with strong and stormy NE wind (gusts up to 20 m/s) caused difficulties in traffic. Very windy was also at North Adriatic, where mean wind speed at Krk bridge was 38 m/s and gusts was 63 m/s. Traffic between inland and coast and all maritime traffic were interrupted. Over Central Adriatic gale force SE wind (Split, gusts up to 33 m/s) was recorded.</p> <p>Heavy snowfall was recorded also over north Croatia on 7th February with 10 to 30 cm of new snow cover. On 9th February the highest amount of snow was recorded since the beginig of measurements (2003) at station Begovo Razdolje in mountainous part – 155 cm.</p> <p>On 9th and 10th February gale force bora (NE wind) was recorded in Dalmatia (Split-mean wind speed up to 24 m/s, gusts up to 43 m/s) with maritime traffic interruptions, demolitions of trees and a lot of damages in olive groves.</p> <p>On 22nd and 23rd February heavy rain and gale force wind was recorded. Apsolute daily maximum of rain was recorded:</p> <p>- in Mali Losinj (North</p>
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					<p>Adriatic)(since 1961) – 61,9 mm/24h</p> <ul style="list-style-type: none"> - in Bozava (North Adriatic)(since 1997) – 54mm/24h - in Split airport (Central Adriatic)(since 1981) – 68 mm/24h - in Lastovo (South Adriatic)(since 1948) – 65 mm/24h <p>At North Adriatic mean speed wind of bora was around 20 m/s, and gusts were up to 35 m/s. At the same time gale force SE wind was recorded in Dalmatia. Interruptions of traffic was frequent.</p> <p>On 26th February due tu heavy rain and melting of snow floods in western continental part was recorded. Many roads were closed.</p>