# „Latinsko Idro“ ('Latin Sail') Month on the Island of Murter

On the island of Murter, each year September is reserved for the admirers of traditional shipbuilding and methods of navigation. Gajeta, leut, kaić, lantina, sail, oar... on several occasions the cove on the Island of Murter was packed with larger and smaller fishing boats. Everything started on the Feast of the Nativity of the Holy Virgin, 8th September, with rowing regattas of the crews from Murter, Betina, Jezera, and Tisno. All these are towns on the Island of Murter cultivating the tradition of shipbuilding and navigation. It is interesting to observe that at the regattas men, women, and children competed together. It was all focused upon the wooden boat and the traditional way of rowing. Several workshops including primary school pupils ensued, aimed at raising the awareness of preserving the tradition and the spirit of the place. They were taught in rowing, sailing, managing and maintaining the boat, as well as specific local and dialectal terms. Apart from the events held at seaside and the open sea, lectures, exhibitions, and concerts, dealing with topics concerning drystone, ship, navigation, and a long gone, arduous life of agricultural workers. Matica hrvatska has published a specific issue of Murterski godišnjak ('Murter Almanac'), dedicated to the methods of sailing using latinsko idro ('Latin sail'). The crowning event was the 21st regatta entitled

Latinsko idro, having involved sixty boats from all over the Croatian Adriatic coast. The regatta took place on September the 30th, and, due to a beautiful weather, attracted a large number of admirers of the sea.

The Island of Murter, together with the towns of Murter, Betina, Tisno, and Jezera, has been striving to preserve wooden shipbuilding craft and the seafarer's mentality of its ancestors. Schools of shipbuilding, sailing, and rowing have been held, the Museum of Wooden Shipbuilding Craft was constructed. It is for this reason that it can undoubtedly be said that the Island of Murter is the central place of wooden shipbuilding craft on the Adriatic, thus setting an example how to preserve the tradition and live with it.

# Dual-Frequency GNSS Smartphone Hits the Market

Mobile brand Xiaomi has launched a dual-frequency GNSS smartphone. Fitted with a Broadcom BCM47755 chip, the Xiaomi Mi 8 provides up to decimeter-level accuracy for location-based services and vehicle navigation. The Mi 8 smartphone represents a breakthrough in GNSS technology as the first commercial deployment of Broadcom's dual-frequency BCM47755 chip, designed for the mass market and introduced in September 2017. Until now, mobile location-based applications have been powered by single-frequency GNSS receivers, whose location accuracy is limited to a few meters. However, in recent years GNSS systems have been launching satellites broadcasting signals on new frequencies to open up new possibilities. Specifically, Galileo has the majority of satellites with E1/L1 and E5/L5 frequency capabilities. The E1/L1 + E5/L5 GNSS chip can compute location with an accuracy of up to a few decimeters.

According to the company, users of the Xiaomi Mi 8 and future models with dual-frequency GNSS will benefit from better positioning and navigation experience in urban environments. This is due to the unique shape of the E5/L5 frequency, which makes it easier to distinguish real signals from the ones reflected by buildings, reducing the multipath effect, a major source of navigation error in cities and other challenging environments.

The numerous Galileo satellites broadcasting E5 make this improvement available to users all over the world. In addition, the simultaneous use of two frequencies reduces other sources of error, such as those due to the ionosphere, and the frequency diversity is more resistant to interference and jamming.

In addition to making the existing applications more accurate, the enhanced position precision offered by dual-frequency GNSS will also create opportunities for new applications in areas such as augmented reality, vehicle navigation, and mapping.

Details from: GPSWorld:
http://gpsworld.com/dual-frequency-gnss-smartphone-hits-the-market/ and
https://www.androidauthority.com/dual-frequency-gps-878169/,
https://www.gsmarena.com/xiaomi_mi_8-9065.php.