

## REFERENCE PROJECT

# WAVE AND CURRENT MEASUREMENTS IN KLAIPEDA, LITHUANIA

In connection with the rebuilding of the port inlet in Klaipeda, Lithuania, SMHI has carried out wave and current measurements in the area on behalf of Sweco Environment AB. The observations of wave and current conditions on the site shall be used for dimensioning and further planning of the port inlet.

Klaipeda is an important port and trade city in the Baltic Sea. The entrance to the harbor is exposed to high waves and strong currents. In order to be able to plan and dimension the port inlet properly, it is important to obtain site-specific knowledge about wave and current conditions. In addition, the wave and current measurements will be used to validate that the wave and current model setup for the area provides realistic results.

To get a good description of the wave and current conditions on the site, measurements were made during winter months, when rough weather is usually more common. During the measurement period, there were several events with severe winds causing high waves. The highest wave height was measured to 9 meter.

Because the inlet is so exposed, the conditions at the measuring site were challenging. To ensure a successful measurement campaign, two instruments were used instead of one. In addition, the instruments were anchored with extra weights to keep them in place even during heavy sea.

**Levererad tjänst:** Observed data

**Tidsperiod för projektet:** 2016-2017

**Uppdragsgivare:** Sweco Environment AB

**Ansvarig projektledare:** Maria Andersson, SMHI



### For more information please contact:

Maria Andersson

telephone +46(0)31 751 89 04

e-mail maria.andersson@smhi.se