



**INFORMATION ON GRAPHS**

**AIR TEMPERATURE (T2m) AND MONTHLY ARRIVALS (POSITIVE CORRELATION\*)**  
 Joint graph of Monthly Arrivals of Refugees in Italy and Monthly Mean Air Temperature (T2m)\*\* over a reference (inland) point of North Africa.

**SIGNIFICANT WAVE HEIGHT (SWH) AND MONTHLY ARRIVALS (NEGATIVE CORRELATION\*)**  
 Joint graph of Monthly Arrivals of Refugees in Italy and Monthly Mean Significant Wave Height (SWH)\*\* over a reference offshore point across the Central Mediterranean Route

**A significant positive correlation (+0.85) exists between Monthly Arrivals and Monthly Mean Air Temperature, whereas a negative one (-0.84) exists between Monthly Arrivals and Monthly Mean Significant Wave Height.**

**SIGNIFICANT REFERENCE DATES**

- July 2015-February 2016: Peak of arrivals (929 680) in Europe (mainly in Greece) from the Eastern Route (Source: FRONTEX).
- February-July 2017: ongoing agreement between Italian Government and UN recognized Libyan Government – arrivals decrease (with emphasis from July 2017) resulting in lessening of correlation with weather conditions.

\*A **positive correlation** between T2m and Arrivals means that there is a direct relationship - when T2m increases the Number of Arrivals also increases, whereas a **negative correlation** between SWH and Arrivals means that there is an inverse relationship - when SWH increases, the number of Arrivals decreases.  
 \*\*T2m: Air Temperature at 2-meter (height above surface). Monthly Mean T2m values have estimated by averaging Daily Mean values taken from ECMWF ERA-Interim Reanalysis. SWH: Significant Wave Height that is defined as the mean wave height (though to crest) of the highest third of the waves. Monthly Mean values of SWH have estimated by averaging Daily Mean values from ECMWF ERA-Interim Reanalysis.

