

Forensic Oceanography Statistical Annex

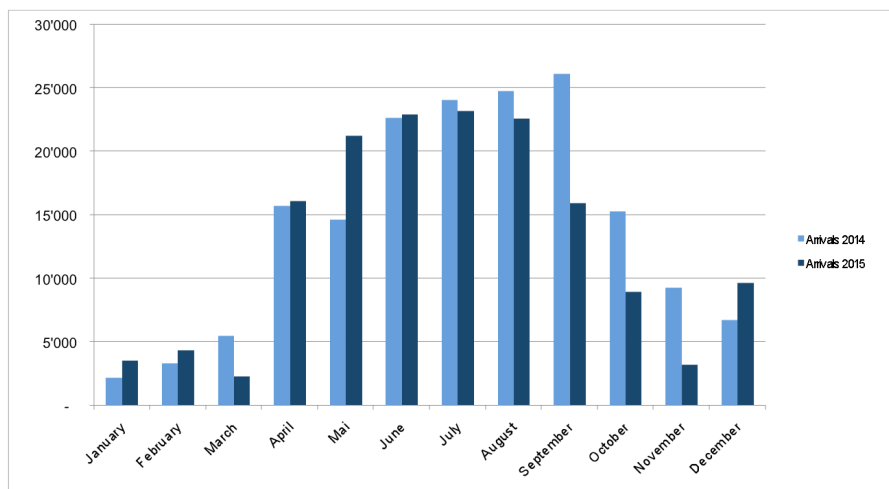
1. Recorded migrant death and arrivals

Data sources:

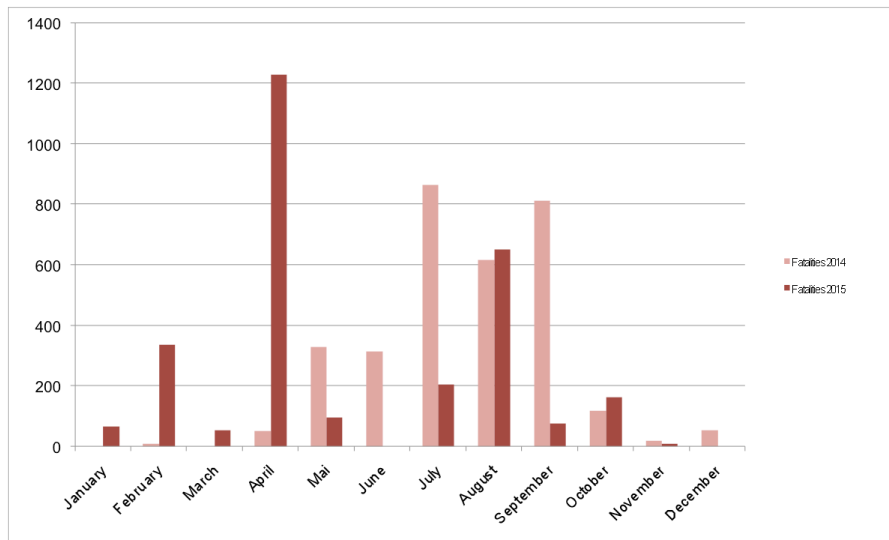
Arrivals: UNHCR data based on the agency's border activities, Ministry of Interior and Police data. Data available at: <http://data.unhcr.org/mediterranean/regional.php>

Recorded deaths: IOM, collected on the basis of statistical data from governments and other agencies, as well as NGOs and media. Available at: <http://missingmigrants.iom.int/mediterranean>

Central Mediterranean

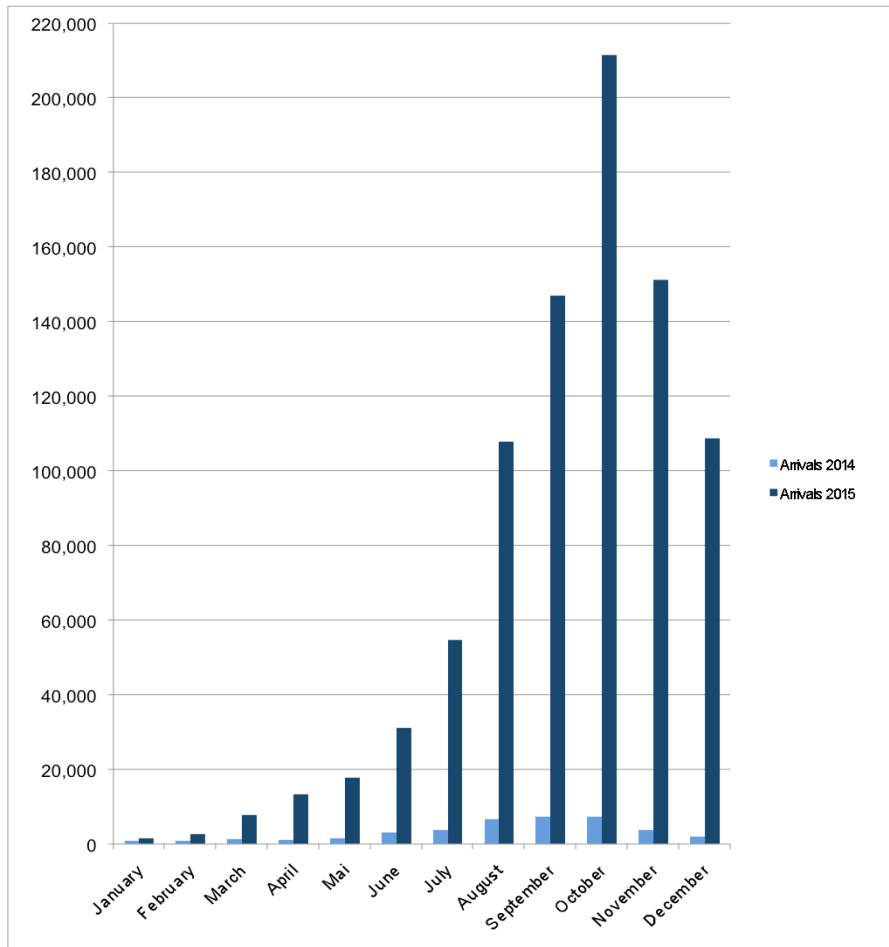


Migrant arrivals in the central Mediterranean, 2014-5 (Based on UNHCR data)

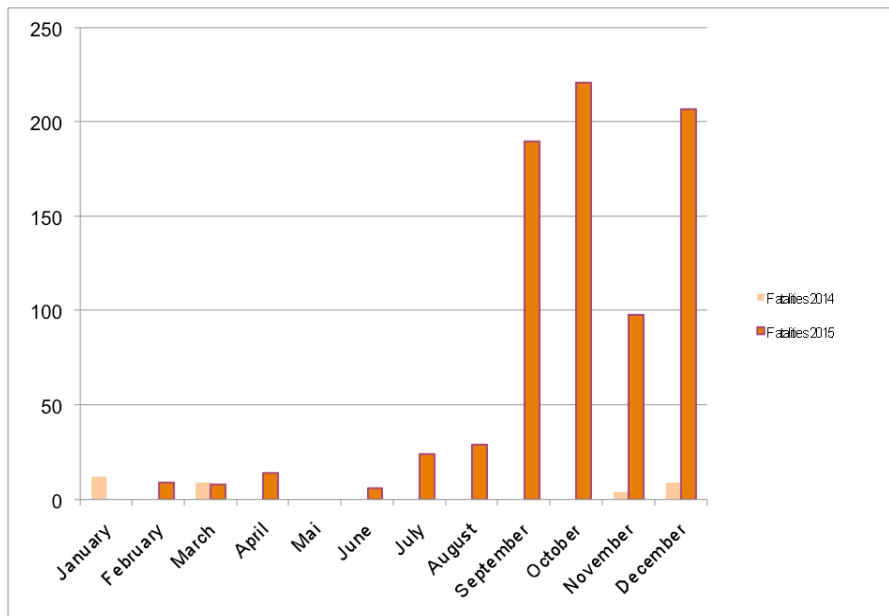


Migrant deaths in the central Mediterranean, 2014-5 (Based on IOM data)

Eastern Mediterranean



Migrant arrivals in the eastern Mediterranean, 2014-5 (Based on UNHCR data)



Migrant deaths in the eastern Mediterranean, 2014-5 (Based on IOM data)

2. Migrant mortality rate

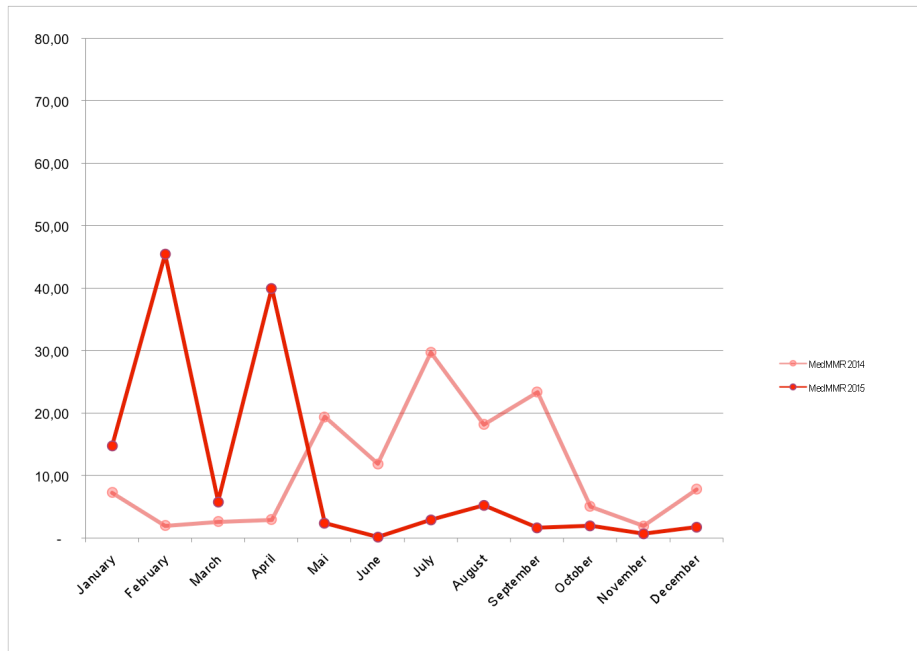
Methodology

A mortality rate is a measure of the number of deaths in a particular population per unit of time. To calculate the migrant mortality rate (MMR) which we can understand as a measure of the danger of crossing the sea, we calculate the proportion of migrants dying in relation to number of migrants who initially left (the sum of the live arrivals and deaths at sea). However, because neither all arrivals nor all fatalities are discovered in relation to illegalised migration – a phenomena that operates by definition in a partially hidden way –, the calculation of mortality based on *recorded* arrivals and deaths is by necessity incomplete.¹ Even though at present the Mediterranean is a highly monitored space and we can thus expect most deaths and arrivals to be recorded in the sources we rely on (UNHCR for arrivals and IOM for deaths), to date, no satisfactory solution to this methodological issue has been applied to migrant mortality at sea. As such the mortality rate calculated for this report should be seen as *indicative of tendencies* of the increasing or decreasing danger of crossing rather than a highly reliable measure.

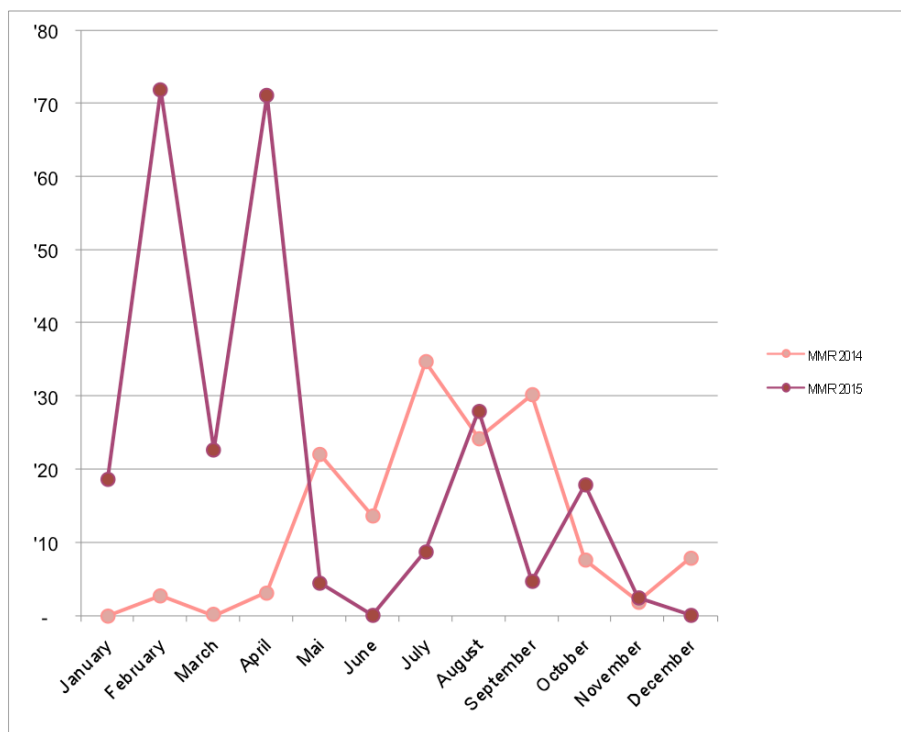
	Central Med	Eastern Med	Western Med	Total Med
Fatalities 2014	3186	34	34	3254
Arrivals 2014	170'100	41038	4'348	215'486
MMR 2014	18.4	1	8	15
Fatalities 2015	2892	806	72	3770
Arrivals 2015	153'842	856'723	4'408	1'014'973
MMR 2015	18.5	0.9	16.1	3.7

Annual fatalities, arrivals and migrant mortality rate (MMR) in the different areas of the Mediterranean, 2014-2015 (based on UNHCR and IOM data).

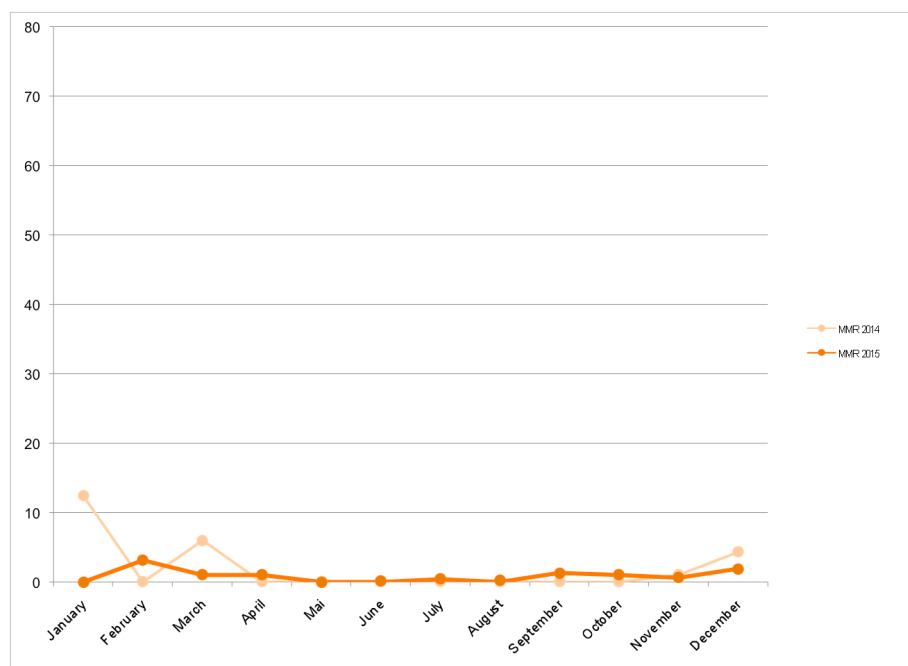
¹ Jørgen Carling, "Migration Control and Migrant Fatalities at the Spanish-African Borders." *IMR* 41, no. 2, 2007, pp. 316-343; Tamara Last and Thomas Spijkerboer, "Tracking deaths in the Mediterranean", In Tara Brian and Frank Laczko, eds. *Fatal Journeys: Tracking Lives Lost during Migration*, International Organisation of Migration, 2014.



Migrant mortality rate in the Mediterranean, 2014-5 (based on UNHCR and IOM data).



Migrant mortality rate in the central Mediterranean, 2014-5 (based on UNHCR and IOM data).



Migrant mortality rate in the eastern Mediterranean, 2014-5 (based on UNHCR and IOM data).


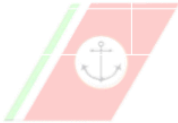
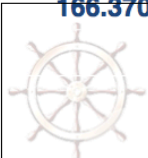
3. Interception/Rescue operations by actor in the central Mediterranean

Data source: Italian Coast Guard

2014 data

MIGRANTS RESCUED AT SEA – YEAR 2014

MIGRANTS RESCUED BY:	Units	Persons
ITALIAN NAVY	459	82.952
ITALIAN COAST GUARD	243	38.047
MERCHANT SHIPS	254	42.061
ITALIAN CUSTOM POLICE	27	1.601
OTHERS	15	1.709
TOTAL	982*	166.370

*Some boats have been rescued by units of the Italian Coast Guard together with other Military/Force of Police.

Migrants rescued by actor in the central Mediterranean, 2014 (Italian Coast Guard data)

2015 data

MIGRANTS RESCUED AT SEA – YEAR 2015

FROM 01ST JANUARY TO 20TH MAY 2015

MIGRANTS RESCUED BY:	Units	Persons
ITALIAN NAVY	55	10.060 ⁽²⁾
ITALIAN COAST GUARD	72	10.734 ⁽¹⁾
MERCHANT SHIPS	97	11.954
ITALIAN CUSTOM POLICE	30	3.128 ⁽³⁾
FRONTEX (NOT ITALIAN UNITS)	14	2.130
OTHERS (Foreign Military Ships)	11	1.244
TOTAL	268*	39.250

Migrants arrived directly on the Italian shore

954

*Some boats have been rescued by units of the Italian Coast Guard together with other Military/Force of Police.

(1) 3292 of which have been rescued by It C.G. units cofinanced by FRONTEX Agency.

(2) 383 of which have been rescued by It NAVY units cofinanced by FRONTEX Agency.

(3) 1081 of which have been rescued by It Custom Police units cofinanced by FRONTEX Agency.



Migrants rescued by actor in the central Mediterranean, up to 20th May 2015 (Italian Coast Guard data)

FROM 01ST JANUARY TO 26TH OCTOBER 2015

MIGRANTS RESCUED BY:	Units	Persons
ITALIAN COAST GUARD	232	37.245 ⁽¹⁾
ITALIAN NAVY	153	27.189 ⁽²⁾
Other FOREIGN MILITARY UNITS	105	18.867
N.G.O.	109	18.219
MERCHANT SHIPS	136	15.501
FRONTEX (NOT ITALIAN UNITS)	76	15.118
ITALIAN CUSTOM POLICE	61	6.187 ⁽³⁾
TOTAL	839*	138.326

Migrants arrived on they own on the Italian shore

1.500

*Some boats have been rescued by units of the Italian Coast Guard together with other Military/Force of Police.

(1) 16419 of which have been rescued by It C.G. units cofinanced by FRONTEX Agency. **

(2) 383 of which have been rescued by It NAVY units cofinanced by FRONTEX Agency. **

(3) 2605 of which have been rescued by It Custom Police units cofinanced by FRONTEX Agency. **

** at 15.10.2015.

Migrants rescued by actor in the central Mediterranean, up to 26th October 2015 (Italian Coast Guard data)