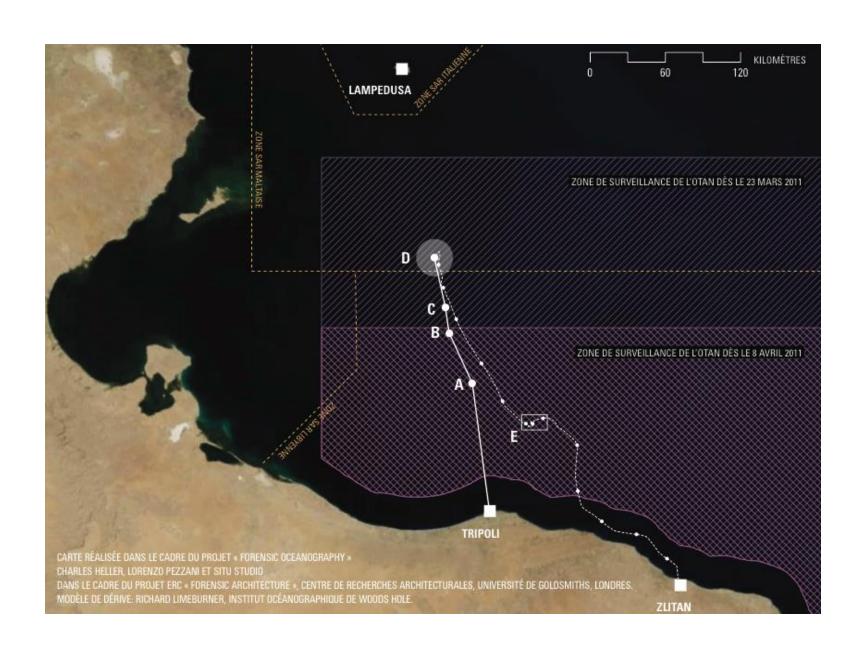
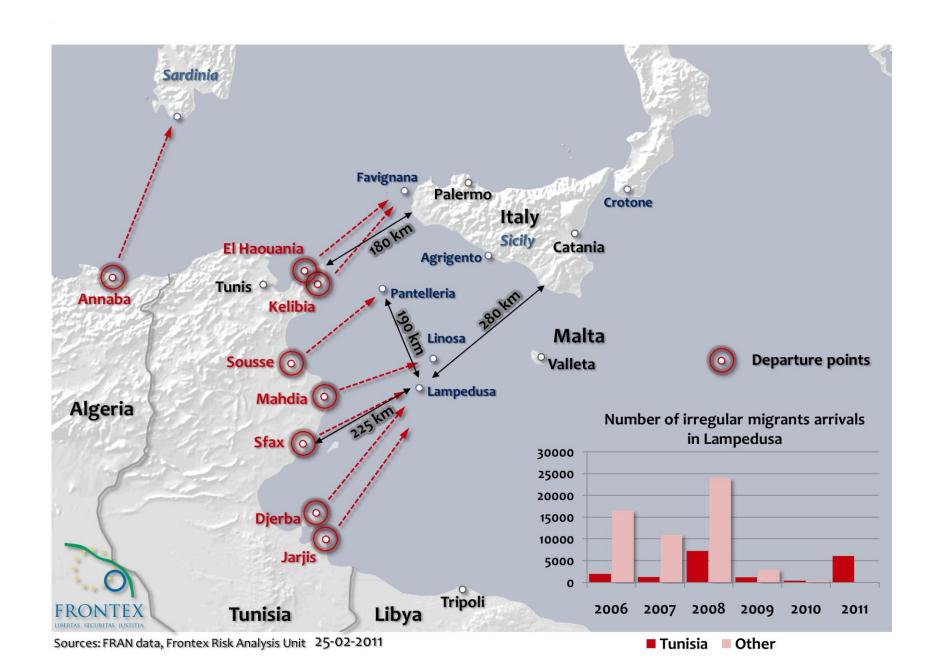
### **Liquid Traces**

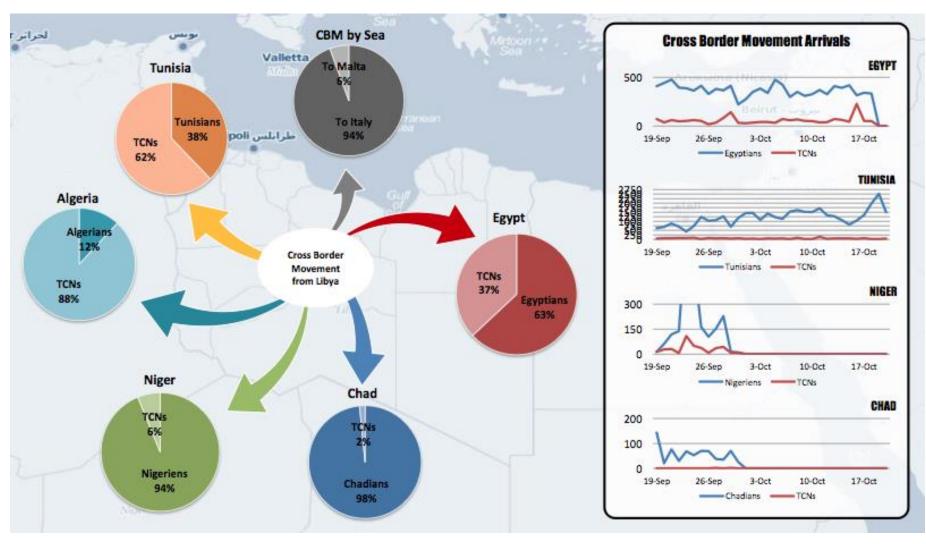
## Investigating the Deaths of Migrants at the EU's Maritime Frontier

**Charles Heller** 

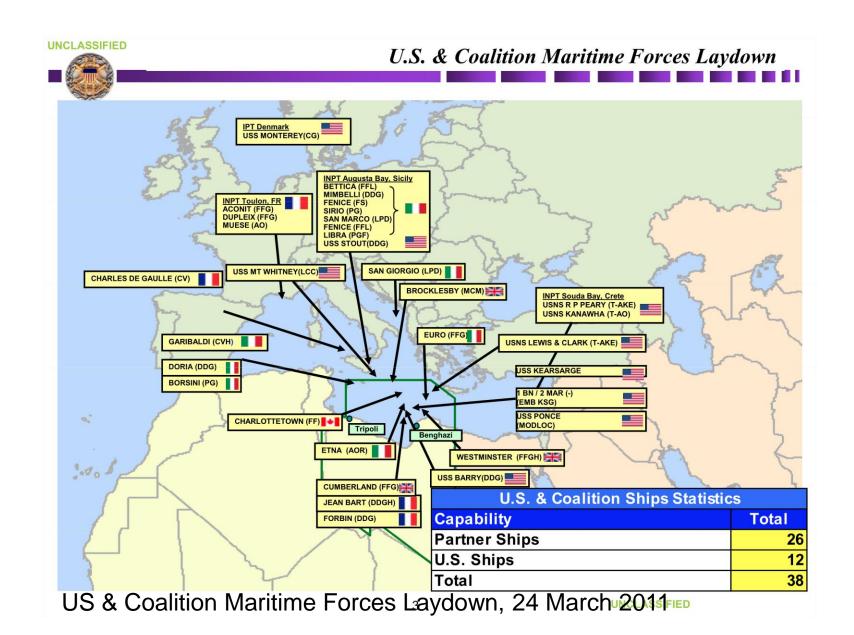
Forensic Oceanography, Goldsmiths College, University of London







IOM, Migration Crisis from Libya, 20 October 2011



Des centaines de boat people meurent en Méditerranée

### Le Gisti va déposer plainte contre l'OTAN, l'Union européenne et les pays de la coalition en opération en Libye

Face aux centaines de naufrages mortels en Méditerranée, peut-on se contenter de dénoncer le silence assourdissant dans lequel des vies disparaissent à nos portes? Doit-on se résoudre à l'impuissance devant des politiques migratoires auxquelles on ne pourrait rien changer? Ces noyé-e-s ne sont pas les victimes de catastrophes naturelles, mais de décisions politiques mises en œuvre par des exécutants dont les responsabilités doivent être pointées. Devant ces atteintes au droit le plus fondamental – le droit à la vie – il faut que des procédures soient engagées et que justice soit rendue. Il faut mettre fin à cette hécatombe.

Le Haut Commissariat des Nations unies pour les réfugiés (HCR) a dénombré à la fin de mai quelque 1 500 victimes de noyade parmi les *boat people* qui, depuis février dernier, s'efforcent de gagner l'Europe à partir des côtes du Maghreb et du Machrek.

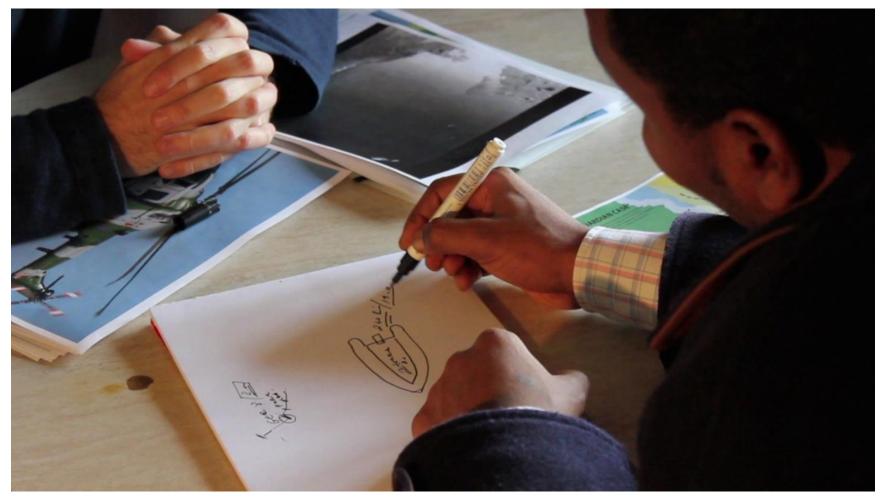
Ces drames ne font que s'ajouter à tous ceux qui se déroulent, dans l'indifférence, depuis plus de vingt ans ; Fortress Europe enregistre 17 317 décès documentés depuis 1988. Mais combien d'autres victimes invisibles de la politique européenne de lutte contre l'immigration qu'elle appelle illégale ?

De ces naufrages, des épaves transformées en cercueils flottants d'hommes, de femmes et d'enfants morts d'épuisement, de faim et de soif après de longues dérives en mer, l'opinion a pris l'habitude. Elle a pu croire à leur caractère inéluctable. Elle a pu ignorer que les équipements anti-migratoires de l'agence européenne Frontex étaient forcément les témoins de nombre de ces drames, en Méditerranée comme ailleurs...

Mais la donne a changé depuis qu'une coalition internationale et les forces de l'OTAN interviennent en Libye. Aujourd'hui, awacs, drones, avions, hélicoptères, radars et bâtiments de guerre surveillent tout ce qui bouge en Méditerranée. Ils ne peuvent pas ne pas voir les bateaux des exilés originaires d'Afrique subsaharienne qui cherchent à fuir la Libye. Ils ne peuvent pas ne pas voir lorsque, de Tunisie, du Maroc ou d'Algérie, des jeunes sans espoir s'entassent dans une embarcation fragile pour gagner l'Italie ou l'Espagne.

En n'intervenant pas, ils se rendent coupables de non-assistance à personne en danger. Ceci ne peut rester impuni.

Communiqué du GISTI, 9 juin 2011

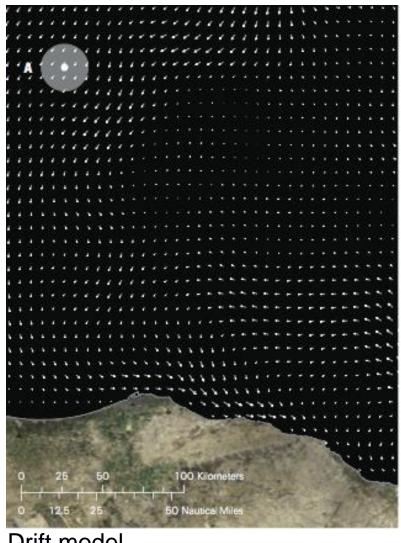


Dan Haile Gebre, interview December 2011

Inoltra Enhanced Group Call (EGC)  GC Inoltrato: RESP:MSGACCEPT MSG-REF: 381240 Message Accepted 11-04-03/08-34 UTC	
Regione: Tutti	
Priorità: DISTRESS	
Codice del Servizio: S.A.R. per area circolare	
Indirizzo: Lat: 34 N Long: 13 E Raggio: 050	
Codice di Ripeizione: Ritrasmettere dopo 4 ore ( 2 trasmmisioni )	
Codice di Presentazione: IAS	
Testo del EGC: FM MRCC ROME - ITALIAN COAST GUARD TO ALL SHIPS TRANSITING IN SICILY CHANNEL BT	医院
ON 27 MARCH 2011 SICILY CHANNEL SEA IN POSITION LAT. 33°58'.2" N – LONG. 012°55'.8"E AT 16:52GMT A BOAT WHIT ABOUT 68 POB PROBABLY IN DIFFICULT. ALL SHIPS TRANSITING IN THE AREA ARE REQUESTED TO KEEP A SHARP LOOKOUT	
AND REPORTING ANY SIGHTING URGENTLY AT MRCC ROME AT FOLLOWING	國

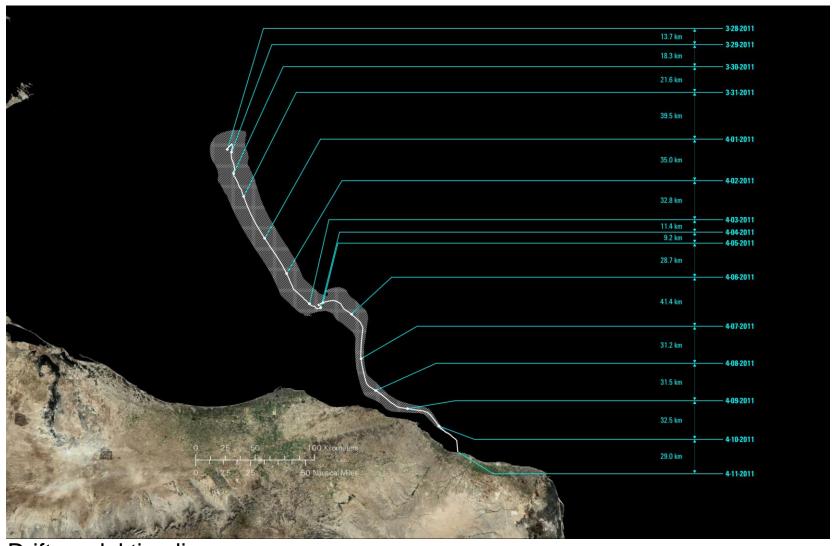
#### BROADCAST WARNING MESSAGES QUERY RESULTS CATEGORY: HYDROLANT Warning Number: 512 / 2011 HYDROLANT 512/2011 (52,53,56) (Cancelled by HYDROLANT 637/2011) EASTERN MEDITERRANEAN SEA. VESSEL, 68 PERSONS ON BOARD, IN NEED OF ASSISTANCE IN 33-58.8N 012-55.8E AT 271652Z MAR. VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO MRCC ROME, INMARSAT-C: 424744220, PHONE: 390 6592 4145 OR 3906 5908 4409, FAX: 390 6592 2737 OR 3906 5908 4793, E-MAIL: UFFICIO3.REPARTO3@MIT.GOV.IT. (280406Z MAR 2011)

Distress signals

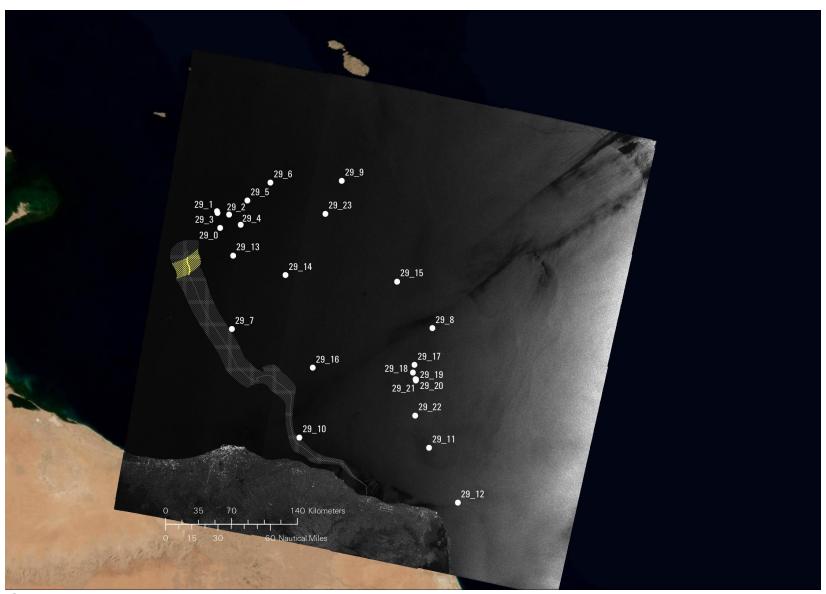




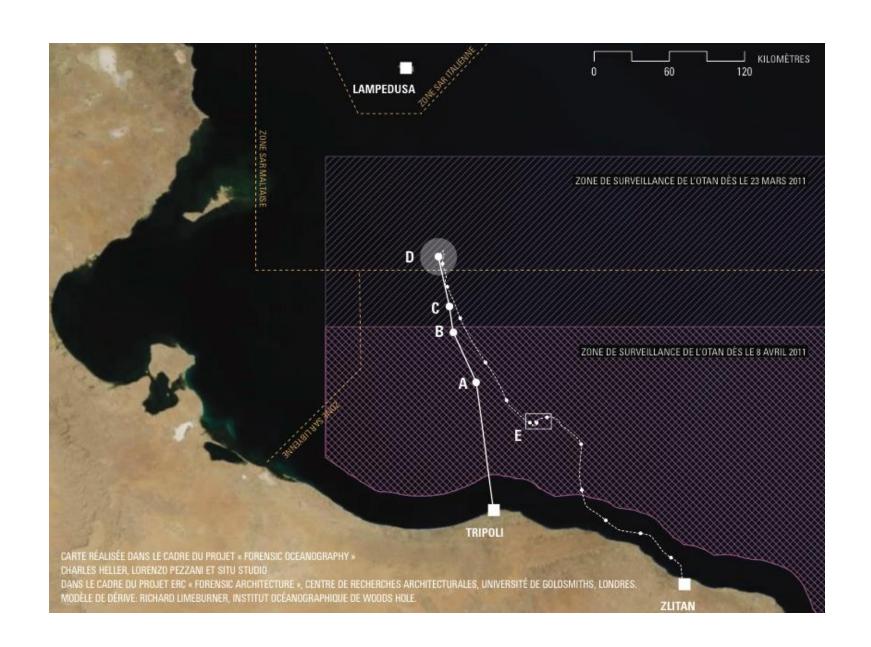
**Drift model** 



Drift model timeline



SAR image analysis, 29 March 2011



# Death of 63 migrants in the Mediterranean: Complaint in France holds the French military to account

11 April 2012



One year after events that led to the deaths of 63 migrants in a boat in the waters off the coast of Libya, 4 survivors, with the support of a coalition of NGOs, filed a complaint in France concerning the responsibility of the French military for failing to assist persons in danger.

Legal complain France, 11 April 2012





03.10.2013 shipwreck

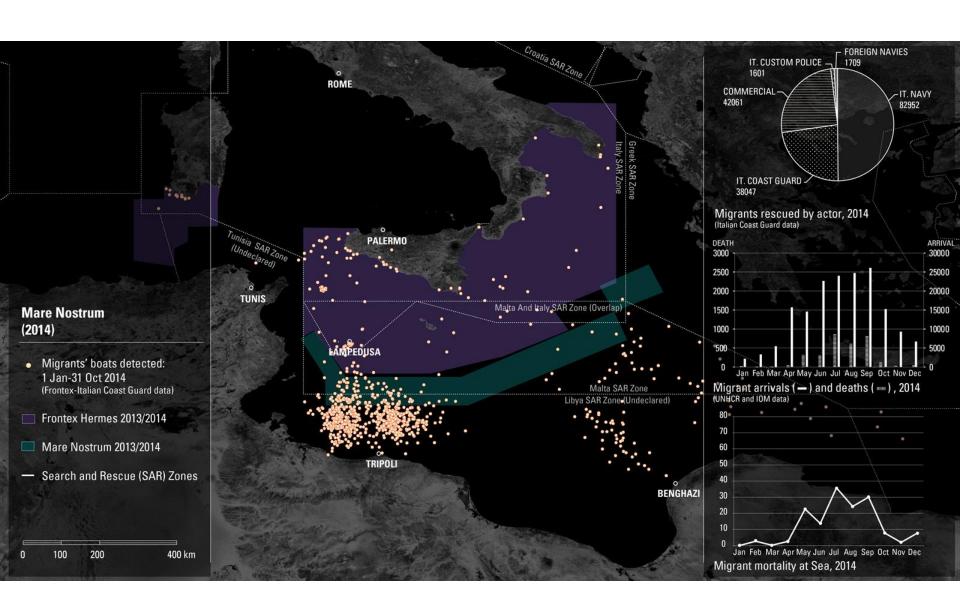


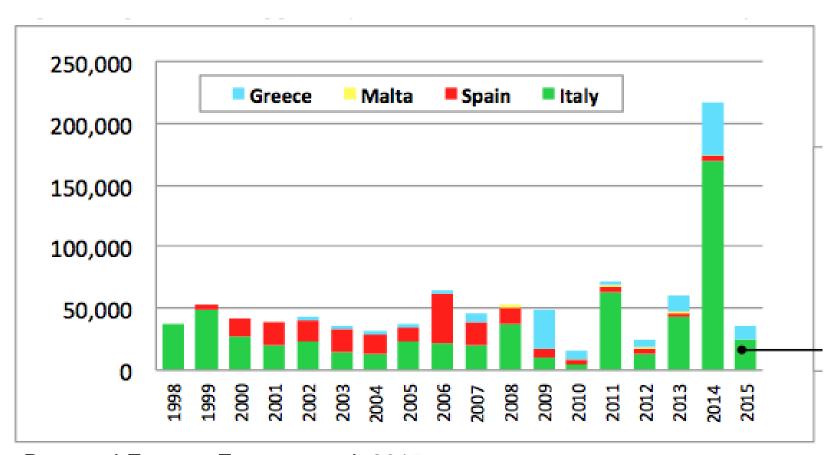
EC President Barroso and Italian PM Letta visit to Lampedusa, 8<sup>th</sup> of October 2013

#### FORENSIC OCEANOGRAPHY



Mare Nostrum Operational zone





Drowned Europe, Fargues et al, 2015.

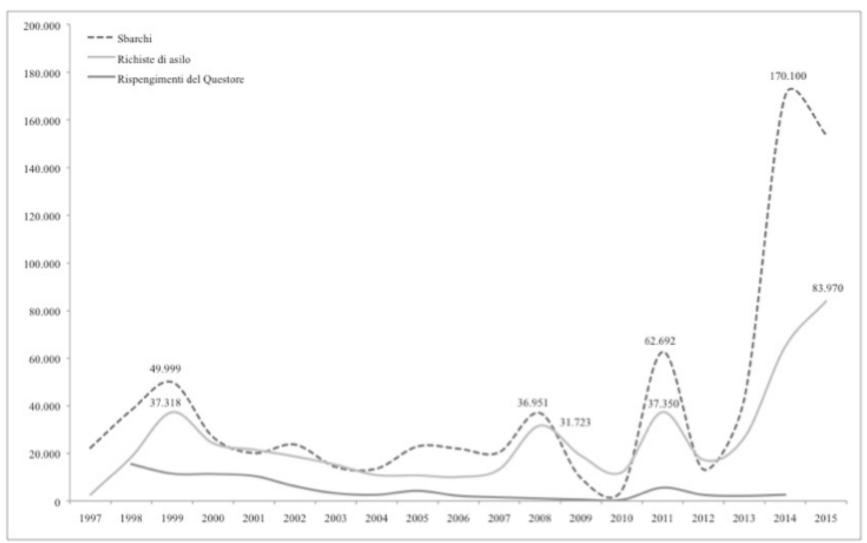
"We do not support planned search and rescue operations in the Mediterranean. We believe that they create an unintended "pull factor", encouraging more migrants to attempt the dangerous sea crossing and thereby leading to more tragic and unnecessary deaths."

UK Foreign Office Minister Lady Anelay, 15 October 2014, UK Parliament

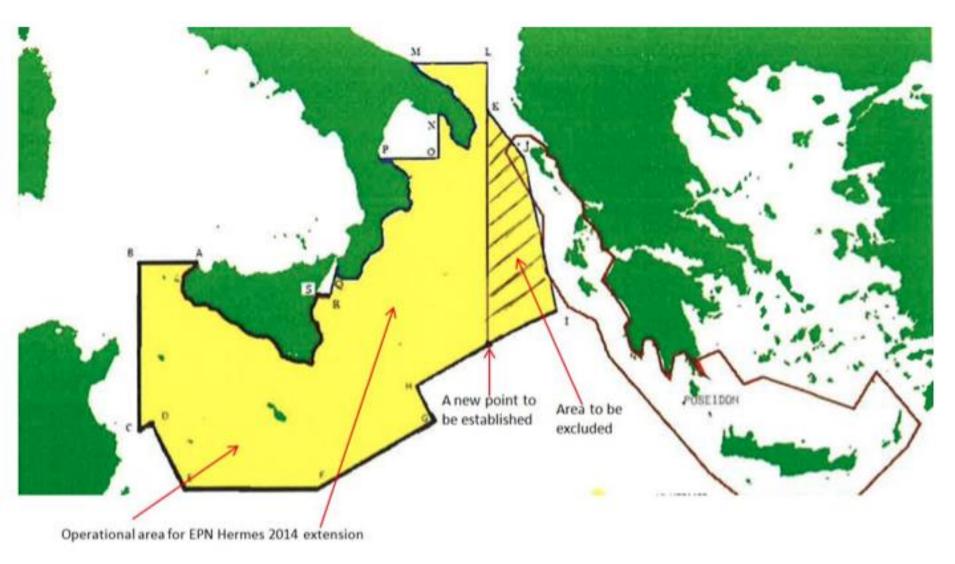
"It's like saying, let them die because this is a good deterrence. [...] To bank on the rise in the number of dead migrants to act as deterrence for future migrants and asylum seekers is appalling."

François Crépeau, United Nations Rapporteur on the rights of migrants OHCR, 30 October 2014

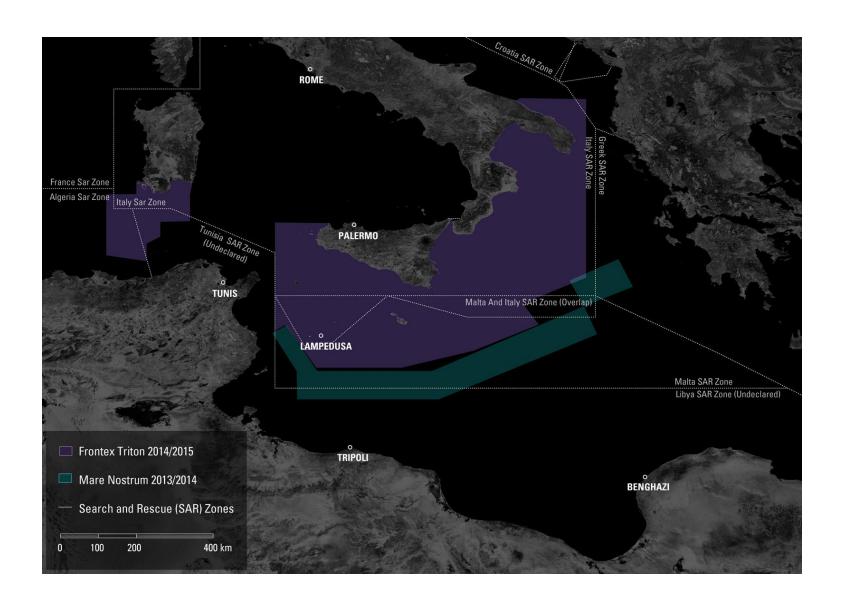
Grafico 1: Richieste d'asilo e respingimenti del Questore (1997-2015)



L'Italia e il controllo delle frontiere marittime, Campesi, 2016.



Frontex's Triton operational area 1st Nov. 2014



"This operation will be closer to EU shores than Mare Nostrum. [...] In any case, the difference between Mare Nostrum and Triton is fundamentally the nature of the two operations. While Mare Nostrum is clearly a search and rescue operation, Triton will be with a main focus on border control, border management, although as it is obvious saving lives is an absolute priority, and in fact very frequently the control operations, the border control operations coordinated by the agency turn into search and rescue operations, and this is how it works in practice."

Gil Arias, Frontex Interim Executive Director

European Parliament, Hearing of the Committee on Civil Liberties, Justice and Home Affairs (LIBE), 4 September 2014,

http://www.europarl.europa.eu/ep-

live/en/committees/video?event=20140904-0930-COMMITTEE-LIBE

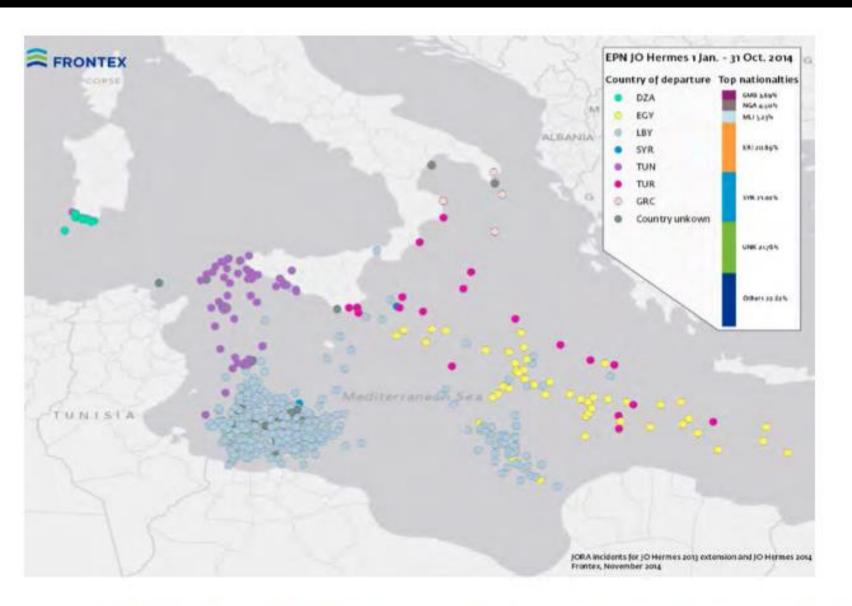


Figure 3: Boats detected by the assets of operation Mare Nostrum and Joint Operation Hermes (1 Jan – 31 Oct 2014), and percentage of nationalities detected. The coloured dots indicate the last country of departure.

"Now we know that Mare Nostrum is not going to be replaced by Frontex or Frontex Plus, nor by Triton or Hermes, so there is not actually going to be any search and rescue operation. I can draw two conclusions here. Basically Italy is being left on its own, and secondly there is going to be no more Mare Nostrum programme and people are going to be dying in the Mediterranean again. Mr Arias Fernandez, are you aware of those two conclusions?"

Barabra Spinelli, Member of the European Parliament

European Parliament, Hearing of the Committee on Civil Liberties, Justice and Home Affairs (LIBE), 4 September 2014,

http://www.europarl.europa.eu/ep-

live/en/committees/video?event=20140904-0930-COMMITTEE-

"People will attempt the crossing, with or without Operation Mare Nostrum in place. But without it, many, many more will die."

Amnesty International, Lives adrift Refugees and migrants in peril in the central Mediterranean, 15 September 2014

"UNHCR is concerned over the announcement of the ending this month of the Italian operation Mare Nostrum without a similar European search and rescue operation to replace it. This will undoubtedly increase the risk for those trying to find safety in Europe, and could lead to more refugees and migrants perishing at sea."

UNHCR concerned over ending of rescue operation in the Mediterranean, 17 October 2014,

"The shipping industry is therefore very concerned by reports that the new EU Frontex operation 'Triton' will have a third of the budget of the current Italian 'Mare Nostrum' operation which it replaces, that its primary focus will be border control, and that search and rescue operations may be reduced in international waters. It will clearly be much more difficult for merchant ships to save lives at sea without the adequate provision of search and rescue services by EU Member States."

International Chamber of Shipping, "ICS: Rescue of all Persons in Distress at Sea", World Maritime News,

http://worldmaritimenews.com/archives/141521/ics-rescue-of-all-persons-in-distress-at-sea-is-a-must/

#### FORENSIC OCEANOGRAPHY

"the withdrawal of naval assets from the area, if not properly planned and announced well in advance, would likely result in a higher number of fatalities."

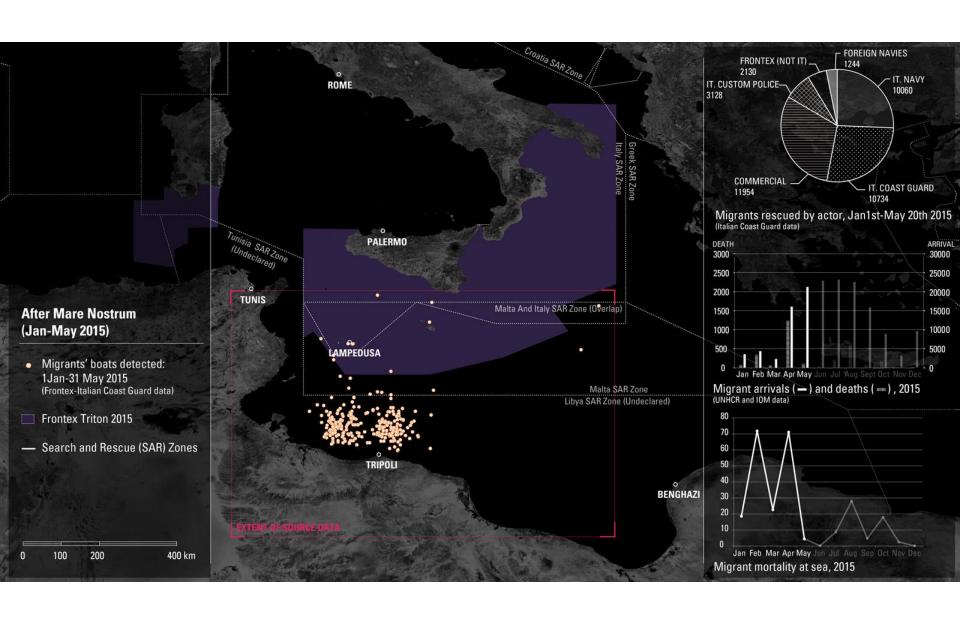
Frontex concept document for operation Triton

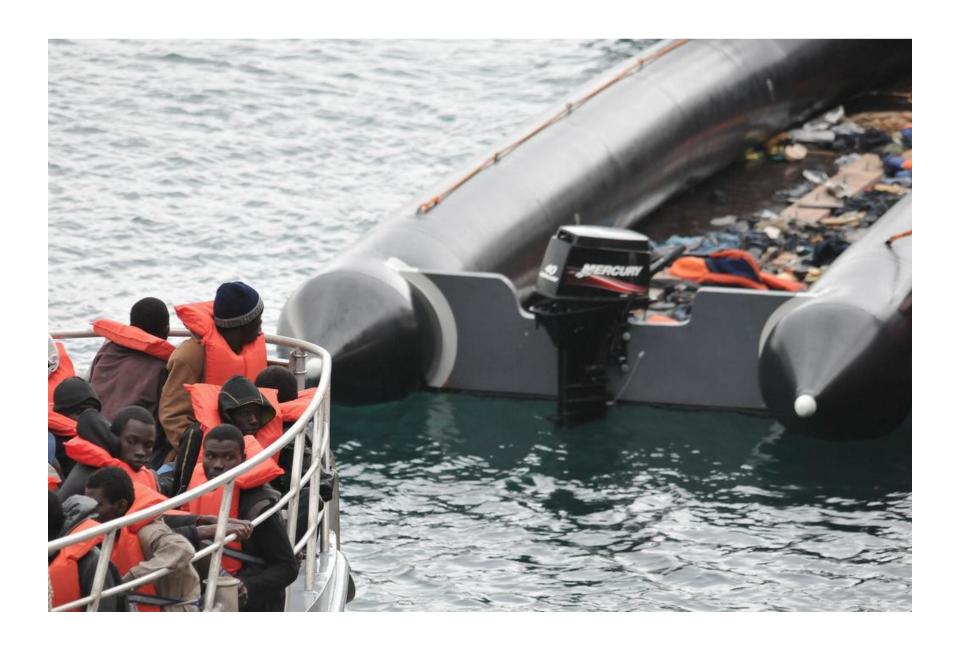
As a result, the following recommendation is formulated concerning the operational area:

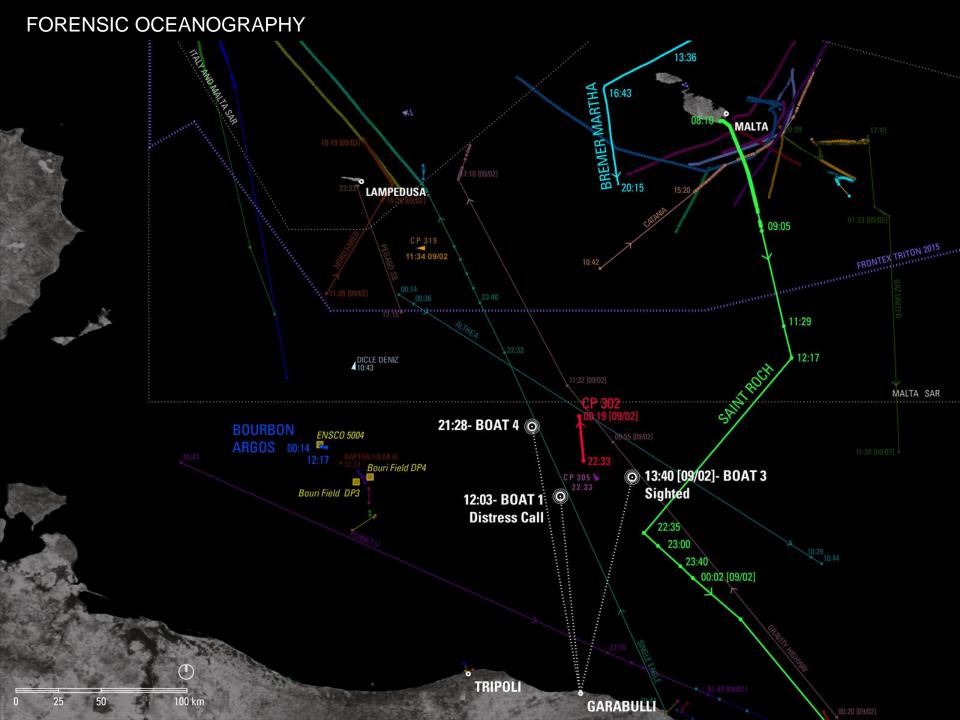
"if operation Mare Nostrum discontinues in the future, then Frontex should consider extending the operational area of the JO Hermes 2014 and consider to which extent the objectives of effective border control and contribution to saving lives can be achieved."

Frontex concept document for operation Triton

Frontex, Concept of reinforced joint operation tackling the migratory flows towards Italy: JO EPN-Triton, 28 August 2014, p. 6 -7.







### 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

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

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

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

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



June 7<sup>th</sup> 2014, boat capsizes as it approaches Norient Star

# FORENSIC OCEANOGRAPHY MALTA 07:31 LAMPEDUSA Bouri Field DP3 VENTIQUATIRO 02:34 OOC COUGAR 15:42 SHAKER 2 Distress Call Case 2 Case 3 TRIPOLI

#### FORENSIC OCEANOGRAPHY





**Date Created** 

16:36:46 03-03-2015

**Camera Information** 

LG Electronics Make

LG-P710 Model

**Shot Information** 

Focal Length 3.2 mm

1/100 sec; f/2.4; ISO 100 Exposure

Image Size 2448 x 3264

Fired Flash

XResolution 72 72 YResolution ResolutionUnit inches YCbCrPositioning Centered ExposureTime FNumber 1/100 2.4 100

0220 ExifVersion

ComponentsConfiguration Y, Cb, Cr, MeteringMode Center-weighted average

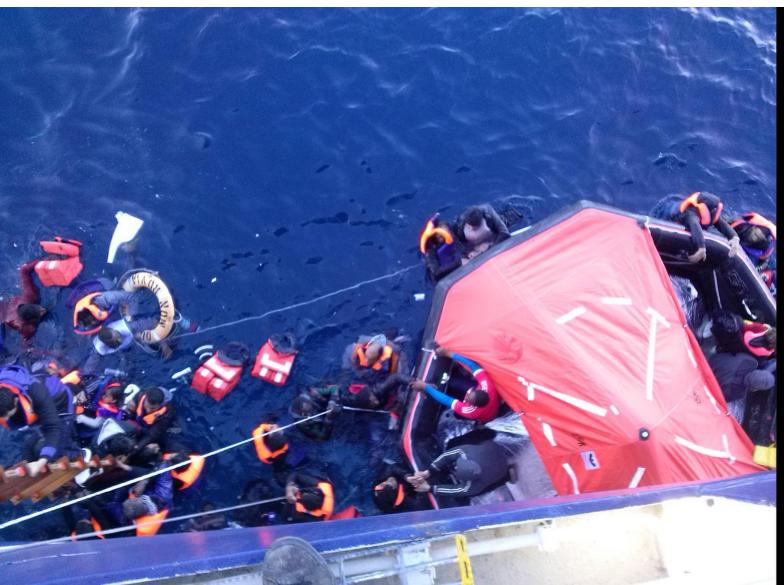
Fired Flash Flash
FocalLength
FlashpixVersion
ColorSpace
InteropIndex
InteropVersion
WhiteBalance 3.2 mm

3.2 mm 0100 sRGB R98 - DCF basic file (sRGB) 0100 Auto JPEG (old-style) 540

Compression

ThumbnailOffset

31172



**Date Created** 

16:48:18 03-03-2015

**Camera Information** 

LG Electronics

Model LG-P710

**Shot Information** 

Focal Length 3.2 mm

1/50 sec; f/2.4; ISO 100 Exposure

Image Size 2448 x 3264

Fired Flash

72 72 **XResolution** YResolution inches Centered ResolutionUnit YCbCrPositioning ExposureTime 1/50 FNumber ISO 100 ExifVersion

0220 ion Y, Cb, Cr, -Center-weighted average ComponentsConfiguration MeteringMode

Fired 3.2 mm 0100 sRGB R88 - DCF basic file (sRGB) Flash

FocalLength FlashpixVersion ColorSpace

InteropIndex InteropVersion 0100

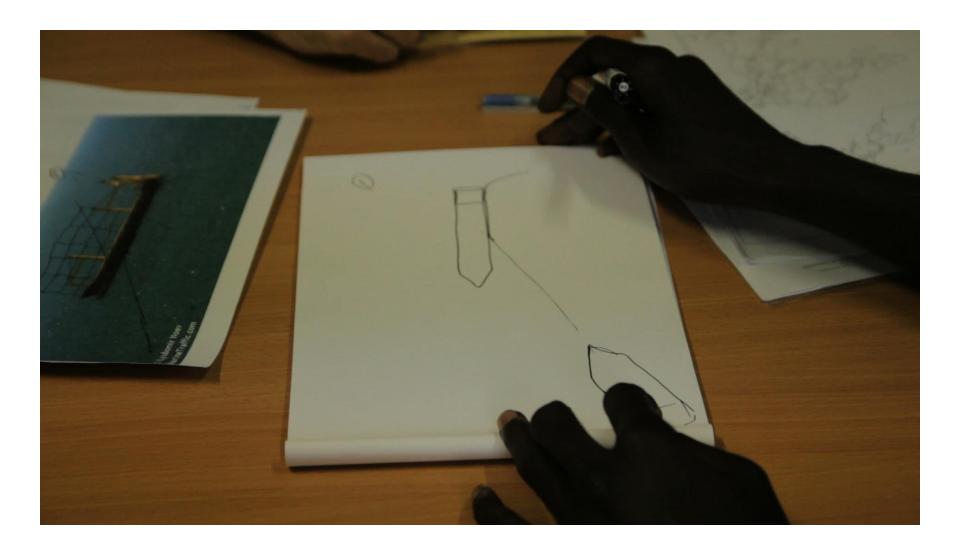
Auto JPEG (old-style) 540 34724 WhiteBalance Compression ThumbnailOffset

ThumbnailLength

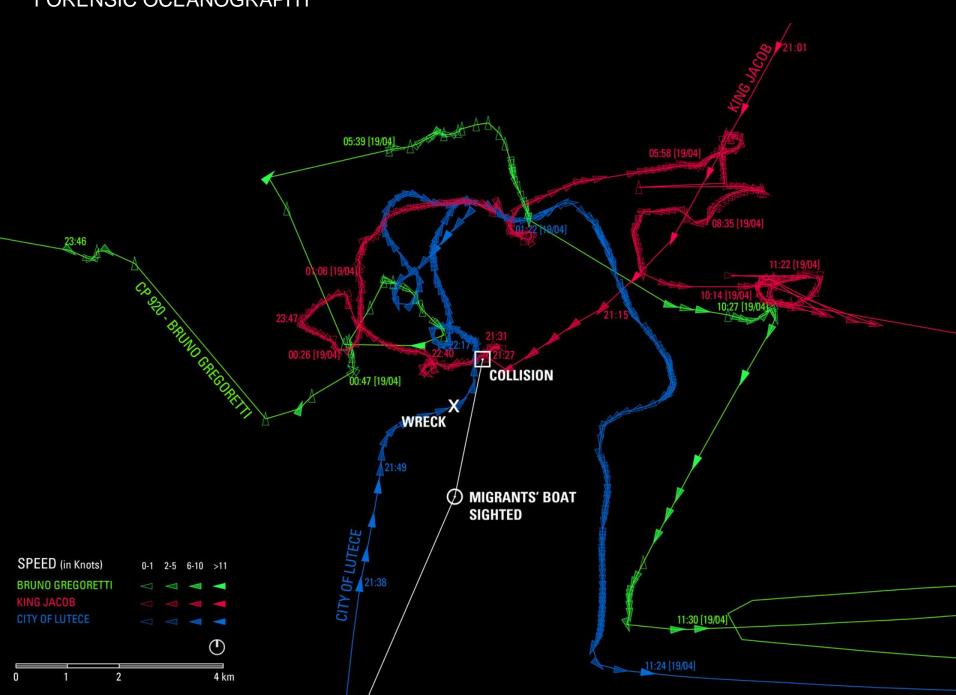
"The humanitarian crisis in the Mediterranean Sea is spiralling out of control." [...] There is a terrible risk of further catastrophic loss of life as ever-more desperate people attempt this deadly sea crossing. [...] We believe it is unacceptable that the international community is increasingly relying on merchant ships and seafarers to undertake more and more large-scale rescues [...]. Commercial ships are not equipped to undertake such largescale rescues [...]. In the short term, we therefore feel that the immediate priority must be for EU and EEA Member States to increase resources and support for Search and Rescue operations in the Mediterranean, in view of the very large number of potentially dangerous rescues now being conducted by merchant ships [...]. In addition to increasing SAR resources, there is also an urgent need for EU and EEA Member States to develop a political solution. [...] The shipping industry believes that the EU and the international community need to provide refugees and migrants with alternative means of finding safety without risking their lives by crossing the Mediterranean in unseaworthy boats."

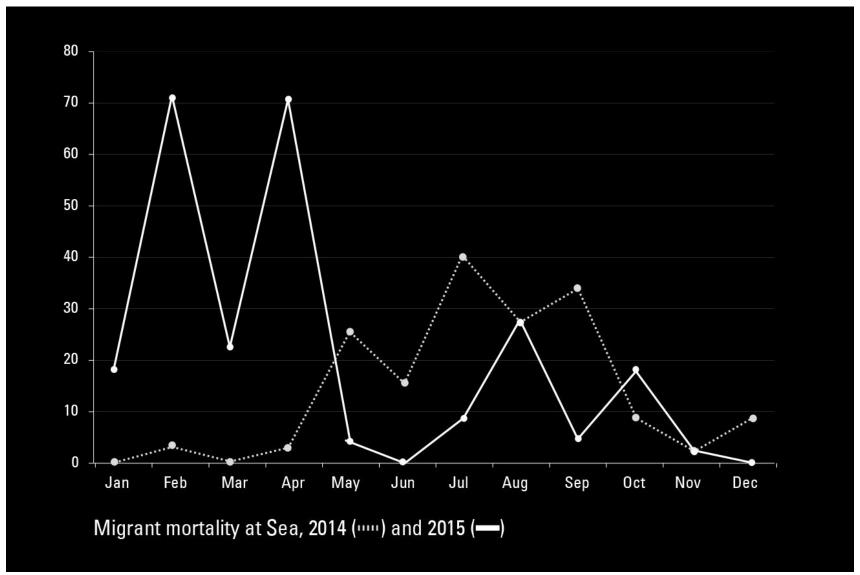
Letter of the European Community Shipowners' Associations (ECSA) and the International Chamber of Shipping (ICS) to the Heads of State/Heads of Government of EU/EEA Member States, 31 March 2015, <a href="http://www.ics-shipping.org/docs/default-source/Submissions/EU/attachment-to-press-release.pdf?sfvrsn=2">http://www.ics-shipping.org/docs/default-source/Submissions/EU/attachment-to-press-release.pdf?sfvrsn=2</a>.











Mortality rate in the Central Mediterranean, 2014-2015

"It was a serious mistake to bring the Mare Nostrum operation to an end. It cost human lives."

Speech by President of the European Commission Jean-Claude Juncker at the debate in the European Parliament on the conclusions of the Special European Council on 23 April: "Tackling the migration crisis", <a href="http://europa.eu/rapid/press-release\_SPEECH-15-4896\_en.htm">http://europa.eu/rapid/press-release\_SPEECH-15-4896\_en.htm</a>



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REBECCA ARMSTRONG Why is change so hard to accept?





# EU is 'killing refugees by neglect'

Scathing report into Mediterranean deaths comes as Pope rescues Syrian migrant families from Lesbos camp P45

PLUS Ian Birrell: The Vatican's mercy shames our politicians PD



Hundreds killed in Ecuador earthquake

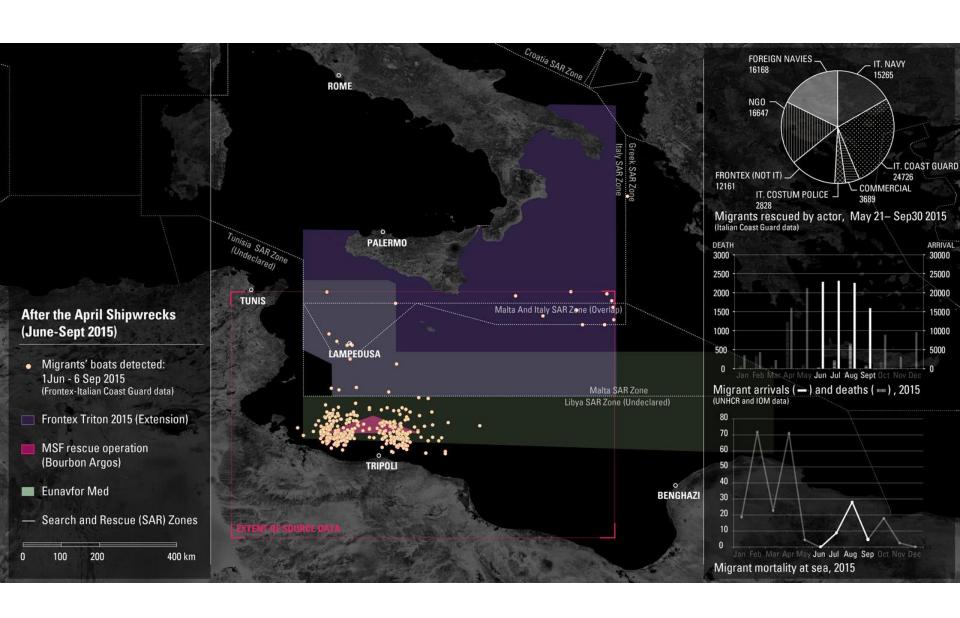


Abbey ever after: How to get the Downton look

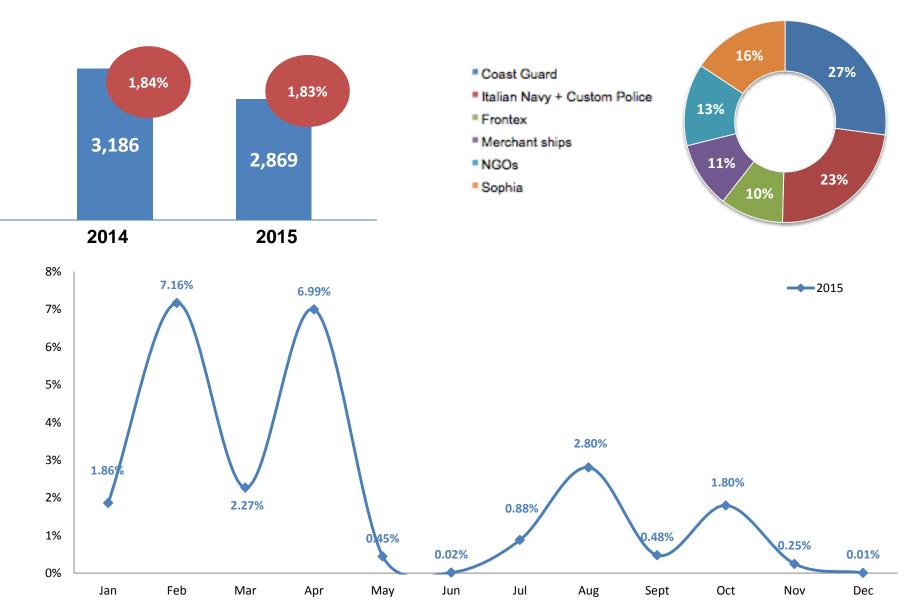


Ref justice? Late penalty saves point for Leicester

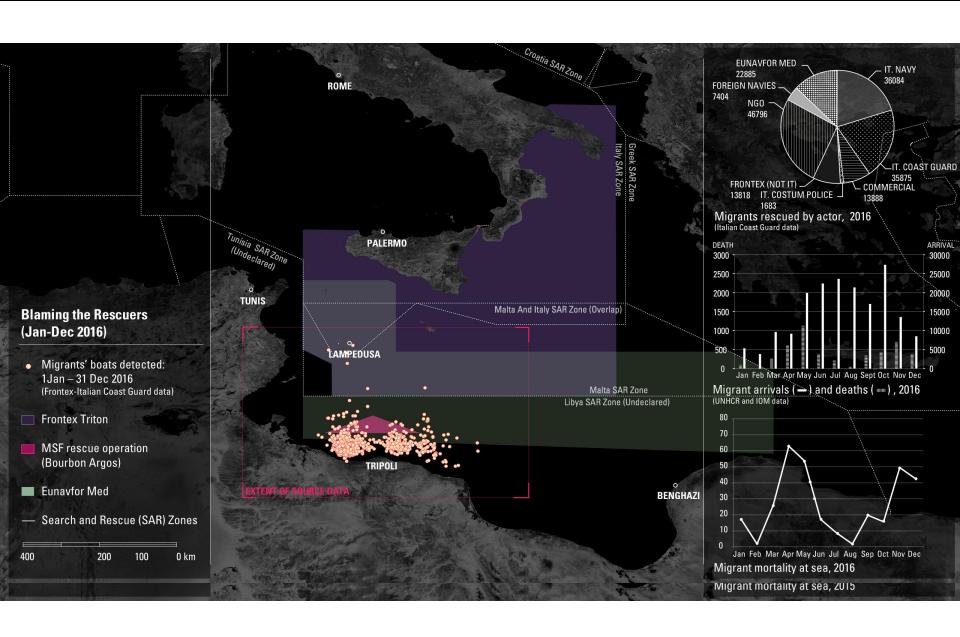
INSIDE | TWO PAGES OF PUZZLES [244] TV GUIDE [228] | MATTHEW NORMAN

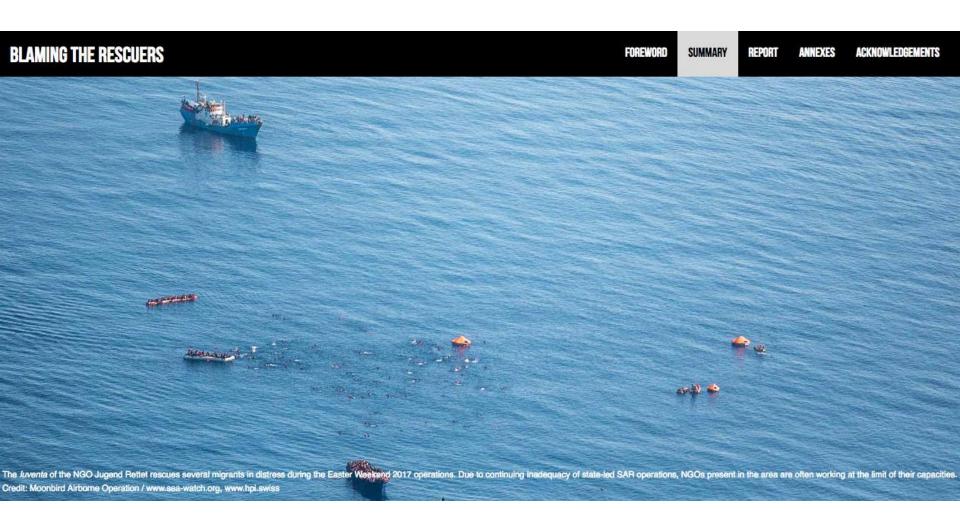






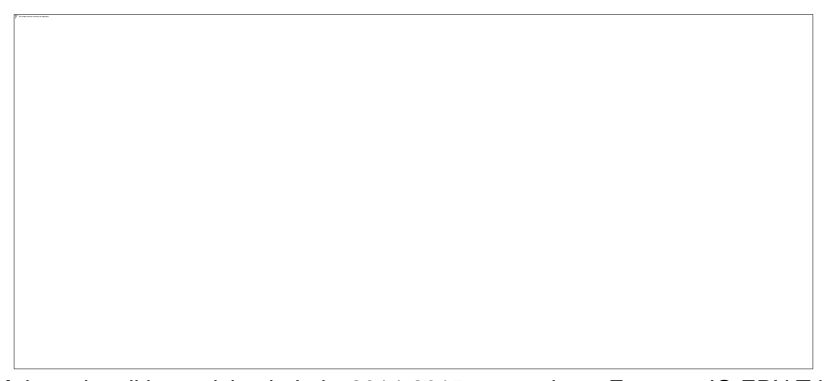
MSF analysis of mortality, based on IOM data











Main nationalities arriving in Italy, 2014-2015 comparison. Frontex, JO EPN Triton, Biweekly Analytical Update no. 21, 16-29 November 2015, 4 December 2015, p.3.

"the Central Mediterranean saw the highest number of migrant arrivals ever recorded from sub-Sahara, West Africa and the Horn of Africa (181,459 migrants, increase of 18% compared with 2015). This trend, which is consistent with previous year-on-year increases, shows that the Central Mediterranean has become the main route for African migrants to the EU and it is very likely to remain so for the foreseeable future."

Frontex, 2017 Annual Risk Analysis report



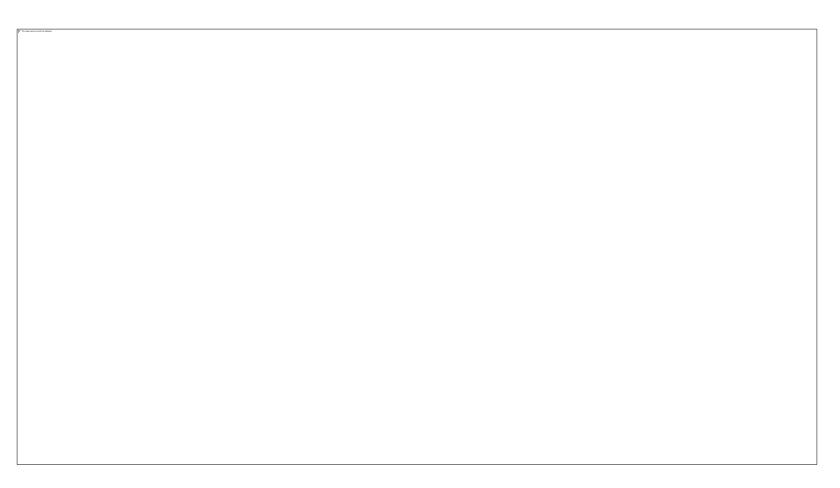
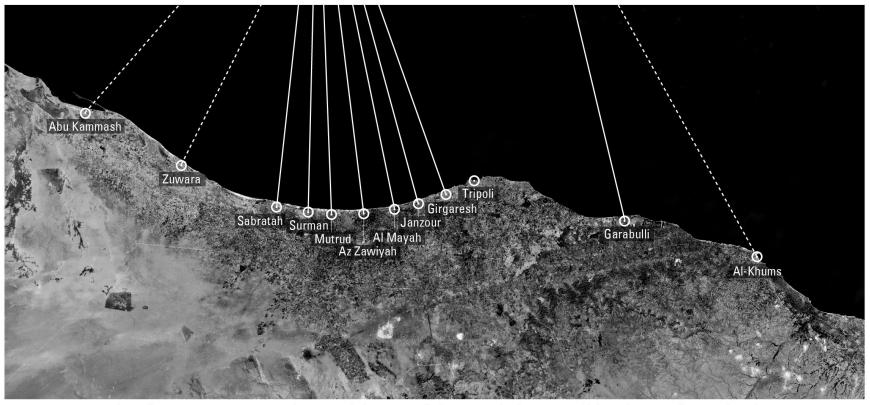
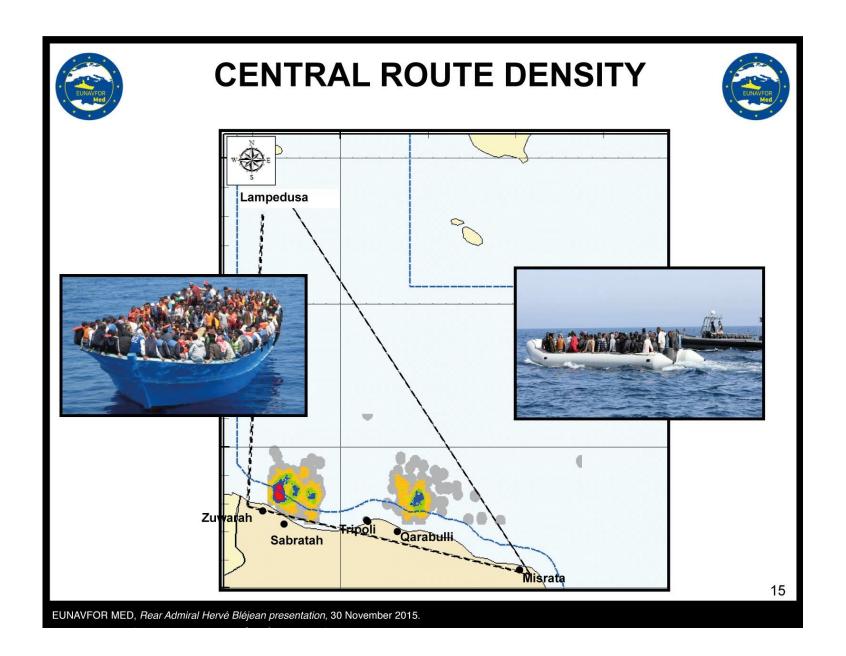


Figure comparing types of vessels provided by smugglers in 2015 and 2016. Italian Maritime Rescue Coordination Centre, Search And Rescue Activity and Migratory flows in Central Mediterranean Sea (Year 2016), p. 14.



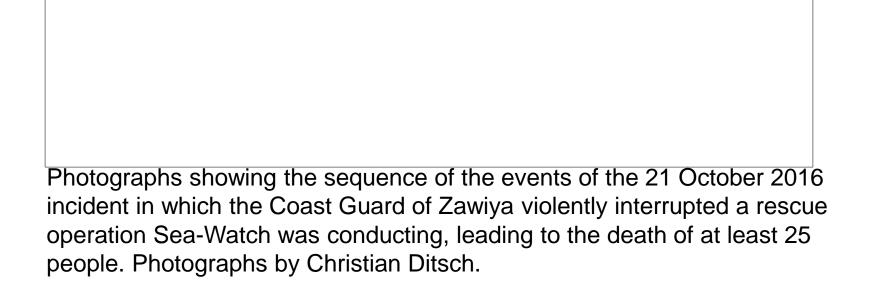
Based on a map by Mark Micallef, "The Human Conveyor Belt: trends in human trafficking and smuggling in post-revolution Libya", Global Initiative against Transnational Organized Crime, March 2017.



"Wooden boats are more valuable than rubber dinghies because they can carry more people, hence more profit for smugglers and are more resilient to bad weather and can be re-used if recovered by smugglers. However, following operation SOPHIA entering into Phase 2A (High Seas), smugglers can no longer recover smuggling vessels on the High seas, effectively rendering them a less economic option for the smuggling business and thereby hampering it. Inflatable boats are used in two thirds of the cases and wooden boats in one third of the cases."

EUNAVFOR MED, Six Monthly Report 2015

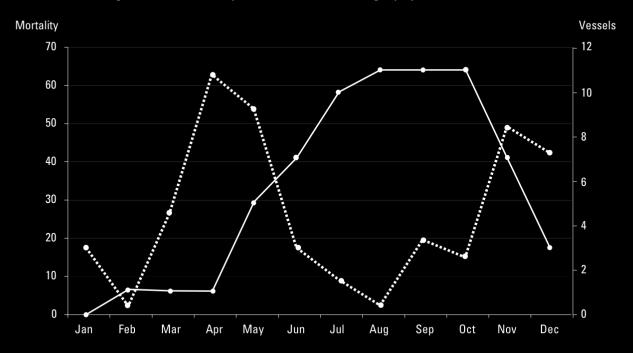




Frontex, 2017 Annual Risk Analysis, 15 February 2017, p. 32.

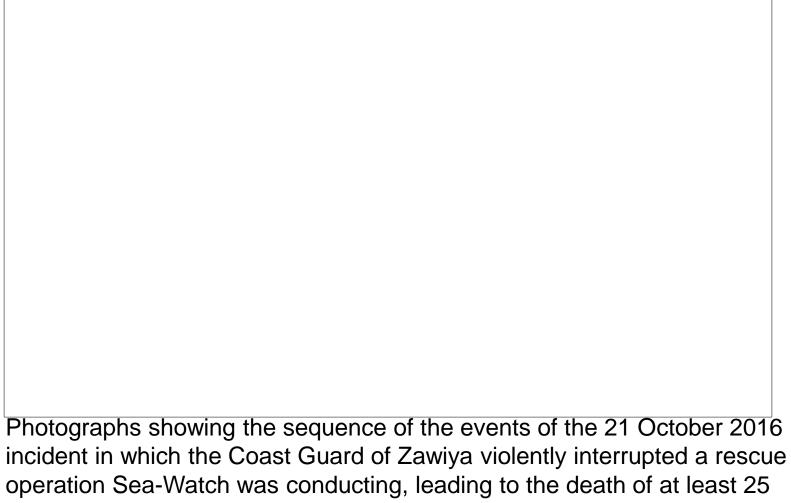
Figure 5. Monthly comparison between rescue operations performed by NGOs and rescue operations initiated via satellite phone calls of migrants in distress at the Central Mediterranean 70% 60% Satellite phone calls NGO SAR operations 50% 40% 30% 20% 10% 0% Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

# The Life-saving role of Search and Rescue NGOs "Blaming the Rescuers" report, Forensic Oceanography, 2017



Migrant mortality rate (••••) and SAR NGO vessels (••••) in central Mediterranean, 2016. (IOM, UNHCR and SAR NGOs data)





people. Photographs by Christian Ditsch.



