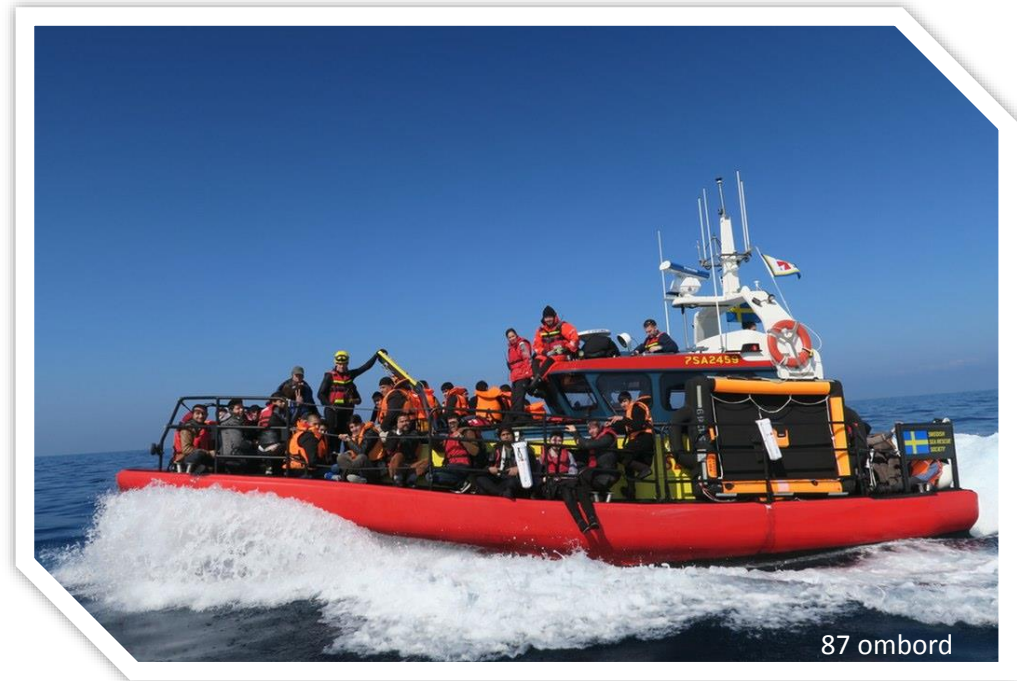




# SAR in the Aegean Sea with Swedish rescue boats



## ***SJÖRÄDDNINGSSÄLLSKAPET***



Cpt. Mikael Hinnerson  
R&D, SSRS

87 ombord



[gulabatarna.se](http://gulabatarna.se) (introfilm)



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Increasing numbers of refugees and migrants take their chances aboard unseaworthy boats and dinghies in a desperate bid to reach Europe. The vast majority of those attempting this dangerous crossing are in need of international protection, fleeing war, violence and persecution in their country of origin. Every year these movements continue to exact a devastating toll on human life.

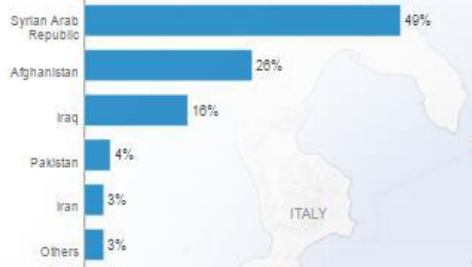
**152,981** arrivals by sea in 2016

**856,723** arrivals by sea in 2015

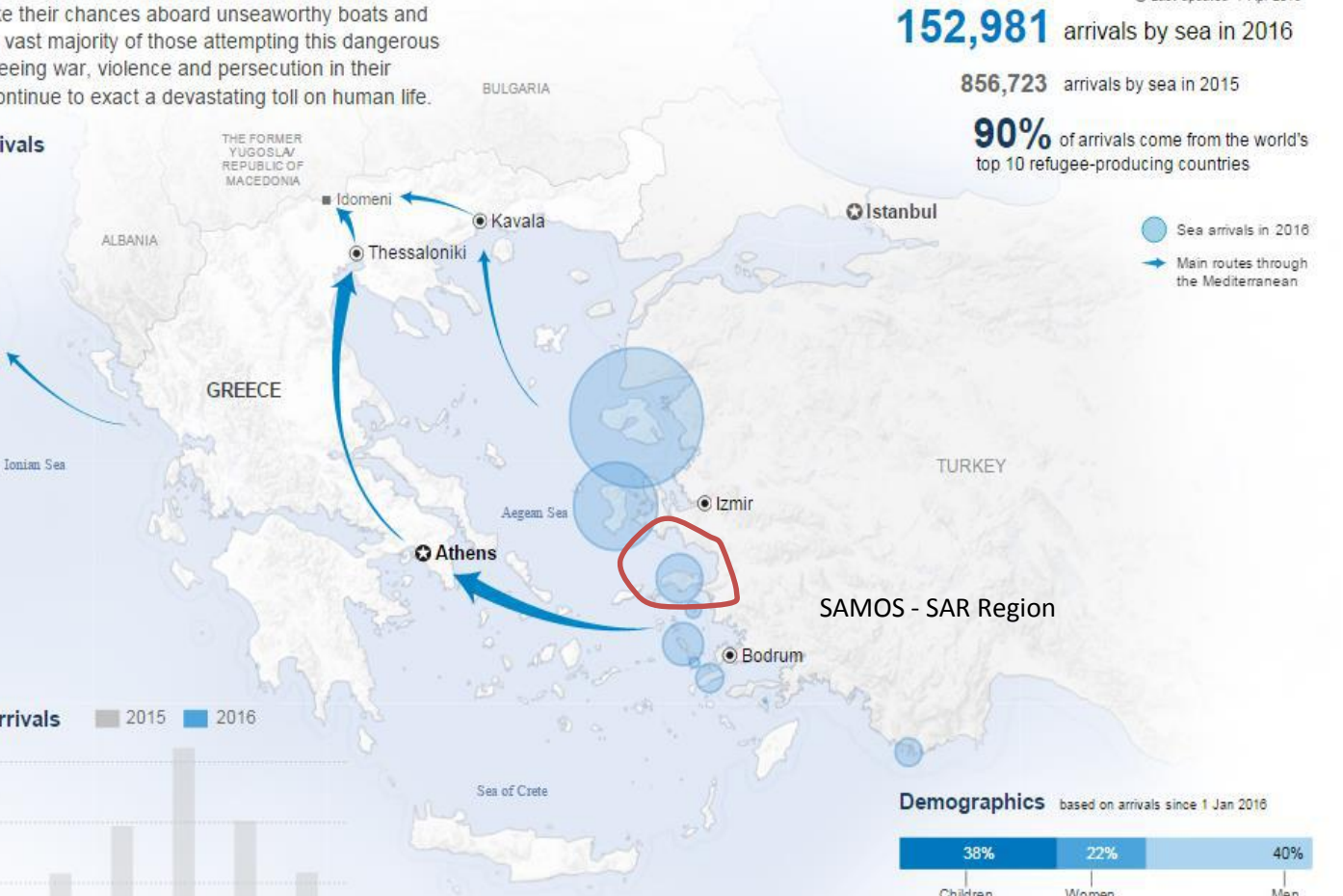
**90%** of arrivals come from the world's top 10 refugee-producing countries

### Top-10 nationalities of Mediterranean sea arrivals

Top-10 nationalities represent **100%** of the sea arrivals based on arrivals since 1 Jan 2016



### Comparison of monthly Mediterranean sea arrivals



### Demographics based on arrivals since 1 Jan 2016



\*Serbia (AND KOSOVO: SRES/1244 (1999)) [Download excel data](#)

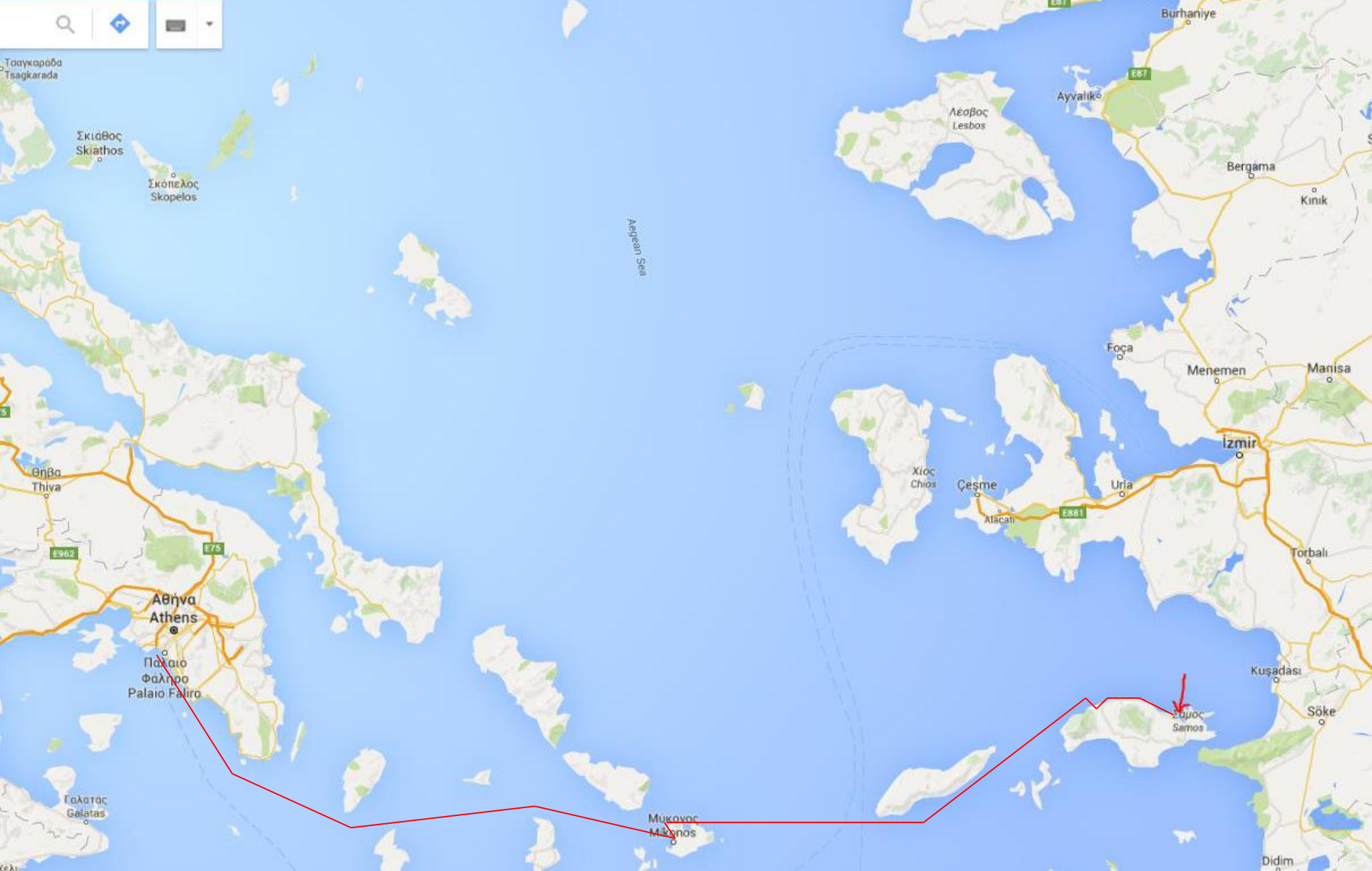
The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

[Click here to view sources and disclaimer.](#)



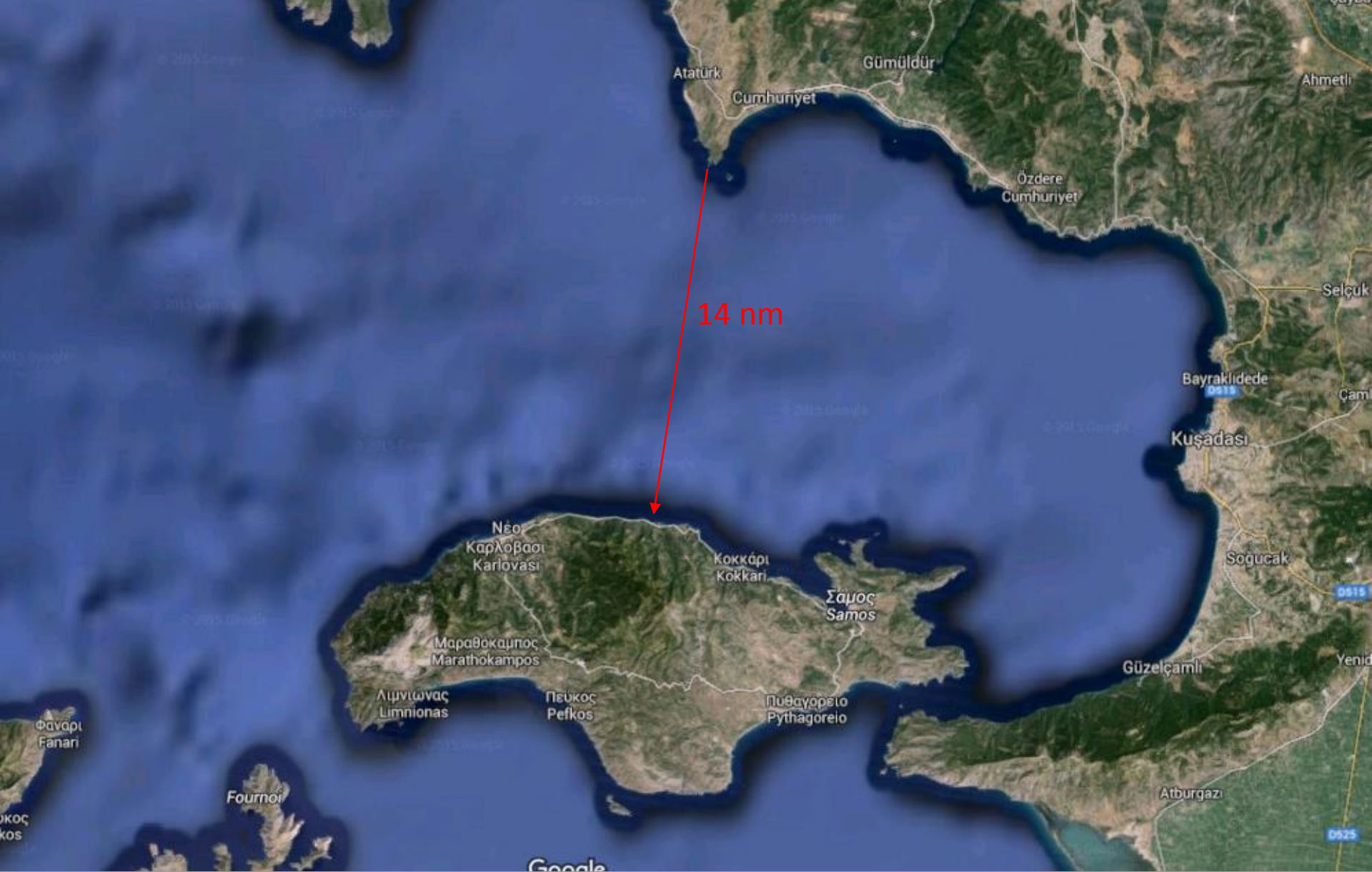
Sweden – Samos, 11 days (28 days after decision to assist local SAR)





Egeiska havet, ca180 nm





Samos



**SJÖRÄDDNINGSSÄLLSKAPET**





# Dödens kust



**SJÖRÄDDNINGSSÄLLSKAPET**







Onsdag 28/10-2015



7SA2420

SAR

SWEDISH SEA RESCUE SOCIETY

7SA2459

SAR

SEARCH AND RESCUE

HANDELSBANKEN

SWEDISH SEA RESCUE SOCIETY

SWEDISH SEA RESCUE SOCIETY

SPICHI GNINIA



A K Praso 2015-11-09, 37 saved





**Inte ens när vattnet började komma in i båten kunde jag föreställa mig att de skulle drunkna.**







Anna Henningson,  
Frivillig Sjöräddare/Anestesisjuksköterska  
2 turer på SAMOS, utbildat Hellenic Coastguard,  
leder hemkomst samtal - FIVE RESCUE BREATHS!

Experience & Training & Education





Styrkeprov - 87 personer ombord

Loading Condition no. : 15  
 80% BUNKERS, 84 PAX

FLOATING CONDITION DATA

Mean Draught (moulded) : 1.055 m  
 Trim over Lpp (aft +) : -0.459 m  
 List (starboard +) : 0.000 °  
 Draught, AP (moulded) : 0.826 m  
 Draught, LCF (moulded) : 1.034 m  
 Draught, FP (moulded) : 1.284 m

WEIGHT SUMMARY

80% BUNKERS : 1.2 MT  
 CREW : 0.3 MT  
 Flóttafólk : 6.2 MT  
 Total DEADWEIGHT : 7.8 MT

Draft references:  
 - DRAFTSMARK AFT : 0.815 m  
 - DRAFTSMARK FRW : 1.212 m

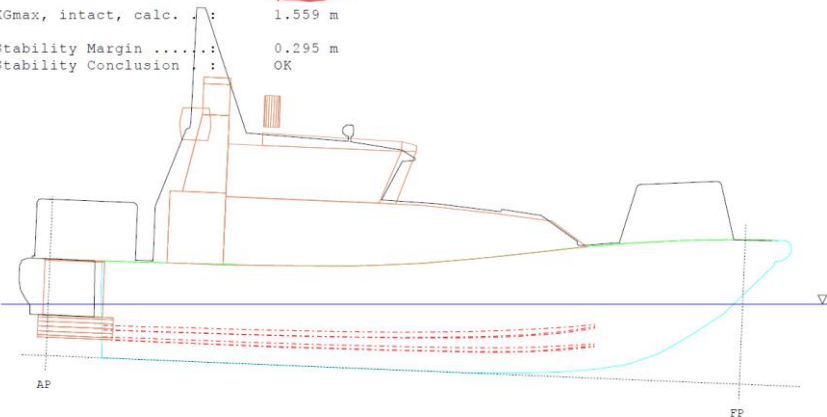
Min. vertical distance to Flood Openings:  
 - other openings : 1.010 m

Displacement : 19.958 MT  
 LCB (rel. AP) : 5.082 m  
 VCB (rel. BL) : 0.676 m  
 LCF (rel. AP) : 5.042 m  
 TPC - Immersion : 0.333 MT/cm  
 Trim Moment : 0.221 MT\*m/cm

STABILITY DATA/CONTROL

KG (incl. FSC) : 1.264 m  
 Free Surface Correction: 0.021 m  
 KM (metacentre) : 2.367 m  
 GM (incl. FSC) : 1.102 m

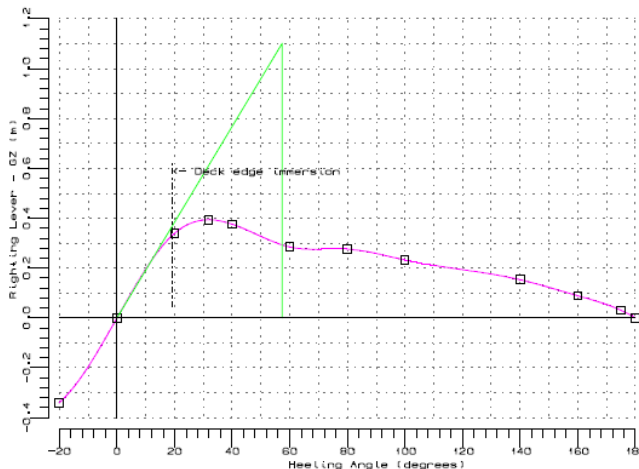
KGmax, intact, calc. : 1.559 m  
 Stability Margin : 0.295 m  
 Stability Conclusion : OK



Water Density = 1.025 t/m3

Loading Condition no. : 15  
 (Condition Id. text : 80% BUNKERS, 84 PAX

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m <sup>2</sup> rad)
-20.000	-0.339	-0.0653
0.000	0.000	0.0000
20.000	0.339	0.0653
31.850	0.393	0.1431
40.000	0.376	0.1982
60.000	0.265	0.3127
80.000	0.276	0.4094
100.000	0.232	0.4991
140.000	0.153	0.6339
160.000	0.089	0.6764
175.000	0.030	0.6927
180.000	0.000	0.6941

Deck immersion : 19.297 °  
 Maximum GZ at : 31.850 °  
 Area, 0 - 30 : 0.1305 m<sup>2</sup>rad  
 Area, 0 - 40 : 0.1982 m<sup>2</sup>rad  
 Area, 30 - 40 : 0.0678 m<sup>2</sup>rad  
 Area, 0 - maxGZ: 0.1431 m<sup>2</sup>rad  
 GM : 1.102 m

Heel to starboard side  
 Applied VCG : 1.264 m  
 TCG : 0.000 m

Table of intact stability criteria

TYPE : RESCUE VESSEL

(Code)	Id. text	Req.	Actual value	Concl-usion	KGmax (m)
(GZAr1)	Area, GZ curve ( 0.0-30.0)°	*) : 0.055 m <sup>2</sup> rad	0.134	OK	1.857
(GZAr2)	Area, GZ curve ( 0.0-min<40.0,β>°	*) : 0.090 m <sup>2</sup> rad	0.202	OK	1.742
(GZAr2)	Area, GZ curve (30.0-min<40.0,β>°	*) : 0.030 m <sup>2</sup> rad	0.067	OK	1.637
(GZAng)	Angle at which max. GZ occur, β	: 25.00 °	32.750	OK	1.559
(GMMin)	Minimum GM	: 0.35 m	1.102	OK	2.017
(GZM11)	GZ at angle greater or equal to 30.0°	: 0.20 m	0.389	OK	1.638

β : flooding angle  
 β : angle for maximum GZ  
 (GZarea : area of righting lever  
 \*) : area will also be limited by angles for equilibrium and 2nd intercept

Intact Stability conclusion : OK



# IMRF SUPPORT – AEGEAN SEA

## Coordinated support package - Hellenic Rescue Team:

- I. We support the HRT to have 6 new operational RIB lifeboats + 2 Rescue Runner by May 2016, with 8 in total by the end of the year as per below spread.
- II. A common training framework for the HRT is developed by the IMRF, based on the new Rescue Boat Guidelines, asap and this would be used to train all the HRT teams in a standard manner. This framework will probably be structured around:
  - basic seamanship for all crew & specific RIB SAR training.
  - advanced competencies as training evolved including providing 'train the trainer' opportunities
  - we will explore the concept of a crew mentorship programme.



# IMRF SUPPORT – AEGEAN SEA

## Coordinated support package - Hellenic Rescue Team:

- III. IMRF (KNRM) support HRT to set up a new lifeboat base on Chios (using the Rescue Boat Guidelines)
- IV. IMRF support the HRT to grow as an effective organisation through providing them with advice on governance, maritime SAR management, PR and fundraising – details and proposals TBC
- V. Recruit a Greek IMRF Project Manager to be based within the HRT and to a specification to be agreed between the IMRF and HRT



# IMRF SUPPORT – AEGEAN SEA

- I. Coordinated support - Hellenic Coastguard:
- II. IMRF act as the single point of contact for all IMRF members.
- III. Coordinate, map and forward offers from other NGOs and actors willing to assist in the Aegean Sea
- IV. IMRF to provide support and act as expert interlocutor of the HCG's vetting of other entities' assistance offers.





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