



**ANNUAL
REPORT
OBSERVATORY
FOR WATER
ACCIDENTS
IN GREECE**



SAFE
WATER
SPORTS

SAFE WATER SPORTS: OBJECTIVES

Safe Water Sports is a non-profit organisation that was established in 2015 aiming primarily to support safety in water, water-related sports and recreational activities. It is a purely voluntary initiative that is supported exclusively by the private sector and the wider public (it receives no state funding). The Organisation is currently active in Greece and Cyprus, having signed cooperation agreements with institutions in both these countries. In addition to working together with private companies, it cooperates with wider public bodies, professional associations and other organizations.

The main objective of SWS is to increase the safety of activities in and around the water and reduce the risks of drowning.

The Organisation aims to develop its strategy in other countries as well, in cooperation with local public benefit or state organizations and NGOs, as it firmly believes that international cooperation, research and best practice exchange will help in reducing human loss and accidents in the water, the sea and water-related sports and recreational activities.

The Organisation has created the Observatory for Water Accidents in Greece, which collects and processes relevant data. This information helps us to clarify the causes and conditions under which these accidents take place.

Statistics and numbers related to drownings and fatal accidents in the water are a cause of great concern, especially if we take into consideration that they are largely preventable. The Organisation is fighting for a reduction in the number of people who lose their life every year in the water, by supporting and improving the institutional framework and by helping to change the behaviours of citizens and professionals, so that everyone can enjoy the water with safety and trust.

This activity is aligned to the directives of the World Health Organisation (WHO), which has recommended that every country produces a National Plan for safety in the water.

The plan of our Organisation includes actions that aim to:

- ▶ support all related state actors to be more organised and effective in their work, increasing water safety
- ▶ help professionals and companies that work in the water to improve their organisation and practices, so that safety is always the over-arching priority
- ▶ contribute to the change in attitudes and behaviours of citizens, so that they become more active and more involved, each in their own way, to the common effort that will benefit us all.

Today, the main pillars of activity of our Organisation are:

- ▶ Legal and organisational initiatives for the support of the wider institutional framework connected to water safety
- ▶ Supporting the state for the improvement of monitoring the implementation of water safety rules
- ▶ Informing and raising public awareness of water safety, through multi-level informative activities
- ▶ Educating children and young people at schools
- ▶ Certifying water sports companies (in cooperation with the TUV Austria Hellas) with the “certified quality” standard.

Apart from supporting water safety and preventing accidents, the Organisation has wider developmental aims. These are connected to tourism, as we can significantly contribute in upgrading the country’s image abroad, for the multitude of foreign visitors that choose to come to Greece for their holidays every year.

Be informed. Check. Be careful. Enjoy.

The Organisation is currently active in Greece and Cyprus and its main actions are the following:



Integrated Information System of Audits and Inspections

Safe Water Sports has provided free of charge to the Ministry of Maritime Affairs and Insular Policy of Greece and to the Port Police of Cyprus an innovative “Integrated Information System of Audits and Inspections”.

Through this Information System, port authorities can now manage digitally all the licences of companies and professionals (water sports companies, day cruisers, lifeguard cover of beaches etc). They can run regular inspections and audits with portable devices and a special app, monitor infringements and fines imposed, check the performance of port authorities and identify possible gaps in the inspections.

Observatory for Accidents

The Organisation has established in cooperation with the state the “OBSERVATORY FOR ACCIDENTS”, which allows for the accurate recording of data related to drownings and accidents at sea and internal waters (pools, lakes, rivers, etc) in cooperation with the Hellenic Coast Guard and the Hellenic Police respectively. The Organisation has undertaken the statistical analysis of data of the Observatory, in order to plan the national policy for supporting prevention activities aiming at the continuous reduction of the loss of life.

Legislative Work

Safe Water Sports makes recommendations, participates and contributes to actions that pertain to the modernisation of the wider institutional framework regarding water safety. Up to now, three important legislative initiatives [instituting the National Day for Prevention of Drownings and Sea Accidents (N. 4597/28-2-2019), Presidential Decree 71/2020 for the functioning of lifeguarding schools and lifeguard cover of beaches and General Regulation No. 20 (for sea sports and recreations)] have come into force with the participation and contribution of the Organisation.



Educational Programme

Safe Water Sports has designed a prototype educational program for primary and secondary education, which has received the sanction of the Greek and Cypriot Ministries of Education, and was first presented in 2018, under the aegis of the President of the Republic.

Since 2020, the educational program for primary & secondary education has been included in the platform 21+ at “Skills Labs” of the Institute for Education Policy and has become part of the national curriculum across the country.

At the same time, in cooperation with the Hellenic Coast Guard - Directorate of Port Police, the Organisation is implementing a program of school presentations named “Check-Learn-Care”.

The educational activities that we have developed aim at the consolidation of water safety rules. It addresses students of all grades and includes modern educational material, such as videos, animations, quizzes, all included in a specially designed educational bag. Every year, about 40,000 children participate in the Organisation’s educational activities.

Information E-Platform

Information E-Platform

The Safe Water Sports e-platform, available online (www.safewatersports.com) and through the Safe Water Sports app for mobile devices (available in Greek & English), includes information in Greece and Cyprus on:

- ▶ 3.400+ beaches for swimming and all their features,
- ▶ legal water sports centers
- ▶ marinas
- ▶ recreation boat rentals
- ▶ certified water sports centers
- ▶ daily cruises
- ▶ hospitals, port authorities and
- ▶ current safety regulations for every water sport.



Information campaigns for the older generation

The Organisation runs a large number of information campaigns for the older generation about the dangers that exist and the safety measures they need to take when they are

undertaking activities in the water.

The programme has been designed under the aegis of the Ministry of Maritime Affairs and Insular Policy, the Hellenic Coast Guard and the support of the Ministry of Health.



Certifying Water Sport Companies

The Organisation and TUV AUSTRIA HELLAS (an independent organisation of audit and inspection) have created a Private Certifying Standard for Water Sports Companies. The certification is based on the existence and implementation of specified safety requirements. The companies that fulfil those requirements are provided with the “Watersports certified quality” Quality Standard. 40 companies have been certified so far and it is expected that there is going to be further uptake of this Standard nationwide.

Collaborations with Local Governments

The Organisation is working together with local governments on two main strands of activity:

Placement of information signage for safety at the beach and in the sea. We have helped put up such signs in more than 500 beaches.

Info-kiosks: In the summer months these kiosks are set up at beaches and offer entertainment and information activities to children on how to be safe when at the sea and while doing water sports.

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OPEN INVITATION FOR ACTION



Safe Water Sports Non-Profit Organisation created in 2019 the “Observatory of Accidents”, which, in cooperation with the Hellenic Coast Guard of the Ministry of Maritime Affairs and Insular Policy and the Hellenic Police of the Ministry of Citizen Protection, collects, processes and analyses data related to the loss of life and injury in water (both at sea and internal waters).

For second year in a row, the Organization produces the Observatory of Accidents for the year 2021 and comparing these with data from the period of time between 2017-2020. The present study acts as the main basis for all the future actions and initiatives that need to be taken in order to reduce drownings.

This study is also a “call for action” for our present and future partners, so that we can unite our forces in a common national action plan aiming at preventing fatal and non-fatal accidents in the water.

Everyone’s cooperation is vital, if we want to achieve a reduction of lives that are lost each year in our country’s waters.

Our Organisation is asking you to go one step further than merely reading this study. We are calling for a deep understanding of the issues that are at hand and are asking for your support.

We thank you for your support and commitment to this common effort.

PANAYIOTIS PASCHALAKIS
President of the Non-Profit Organisation Safe Water Sports

MESSAGE FROM THE MINISTER OF SHIPPING AND INSULAR POLICY



Our country has the exceptional privilege of an extensive coast line of 13,676 kilometres, with at least 3,400 beaches, which offer, both to us Greeks and to our foreign visitors, the opportunity to create a unique relation with the sea.

However, this relation with the sea requires care, responsibility, measure, safety. If we do not act responsibly, the joy and entertainment may turn into pain, even mortal danger. Something which, unfortunately, many have experienced in our country.

It is therefore necessary to do what is required to protect human life at sea; to act directly, coherently and effectively, so as to reduce drownings and sea accidents.

Safe Water Sports organisation is an innovator in this field and has already created a complex and effective framework of information and prevention against accidents in the water environment.

The Hellenic Coast Guard is in close cooperation with the Safe Water Sports organisation, not only in order to inform us all, but also to build a relationship of safety with water and to create the mentality necessary that will shield us all from harm.

In this annual report of the Safe Water Sports organisation, we can clearly see the heavy cost of the absence of such a mentality in our society.

Our common goal: Safer beaches and seas for everyone.

GREETING FROM THE CHIEF OF THE HELLENIC COAST GUARD



Since 2015, the Headquarters of the Hellenic Coast Guard and the Directorate of the Port Police in cooperation with the non-profit organization Safe Water Sports (SWS) has created a mutually beneficial action plan, aiming at the prevention and reduction of accidents and drownings in Greek seas and the awareness of citizens regarding safety matters at sea recreation services.

Especially, the Hellenic Coast Guard has utilized the Information System donated by SWS to support its operational needs and activities, and has managed on a fast pace to record in a digital form the water sports centers and professionals who work in the wider area of sea sports and sea recreation activities. The Information System keeps being updated while improving the audits performed by the Port Authorities and the inspection system and its coordination.

In addition, the Information System contains the "Observatory for water accidents" through which, since 2017, all statistical data regarding drownings and accidents in Greece have been gathered and presented analytically. Through this data, important regulatory changes have been made in order to bolster and reinforce safety at sea.

In light of this aim to prevent and run continuous information campaigns for citizens of young ages regarding safety rules at sea, we carry out annually a certified educational program titled "Check-Learn-Care", presented by officers of the Hellenic Coast Guard at schools across Greece. At the same time, an awareness campaign about safety at sea for senior citizens has been developed and presented by officers and distinguished athletes of the Hellenic Coast Guard (Olympic winner athletes and World Champions) in cooperation with the Municipalities and Regions of Greece.

Given the fact that 340 sea accidents happen on average every year, we believe that the establishment of the 11th May as the National Day for the Prevention of Sea Accidents and Drownings can contribute substantively to the promotion of the prevention factor and the development of specific awareness campaigns.

In closing, I want to emphasize that the protection of human life at sea is non-negotiable priority for the Coast Guard-Hellenic Coast Guard and to express our commitment that we will continue to support commendable actions and initiatives such as those of the Safe Water Sports Organization. The present study that is a systematic effort to record, process and analyze data that concerning incidents of loss of life and injuries at sea is a springboard for further further development of the cooperation of the stakeholders, with the aim of reducing accidents at sea, improving the quality of marine recreational services provided and developing the feeling responsibility of citizens in relation to maritime activities.

REAR ADMIRAL HCG GEORGIOS ALEXANDRAKIS
CHIEF OF HCG

NOTE FROM THE CHIEF OF THE HELLENIC POLICE

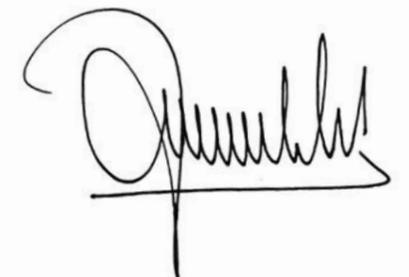


Through a wide framework of responsibilities and tasks, which are performed with professionalism and consistency, the Hellenic Police has developed an active and fertile cooperation with the Non-Profit Organisation "Safe Water Sports", based on a Memorandum of Cooperation, aiming at keeping citizens safe in water.

Exchanging best practice for the optimization of the conditions in which sports and entertainment activities are done in water and raising public awareness on matters of safety in this environment is now possible through the "Observatory for Water Accidents", also in cooperation with the Coast Guard and the Hellenic Police.

The statistical representation of data on incidents in the water environment, apart from what happens at sea, can act as a tool for optimizing and building a safe environment for the protection of human life, as well as a basis for developing initiatives between the involved actors.

The objective of the "Annual Report of the Observatory for Water Accidents in Greece" is to summarize and present incidents and accidents that have taken place in Greece, a country with a strong environmental footprint that places particular importance in this area. In this framework, the Hellenic Police, through its services and resources, supports the worthy effort that is being undertaken by the Non-Profit Organisation "Safe Water Sports" and wishes for the continuation of this cooperation.



Chief of the Hellenic Police
MICHAEL KARAMALAKIS
Lieutenant General

NOTE FROM THE PRESIDENT OF THE HELLENIC ASSOCIATION OF LIFEGUARD SCHOOLS



The Hellenic Association of Lifeguard Schools (HALS), as a recognised lifeguarding institution in Greece, has developed and implements, together with the non-profit organisation “Safe Water Sports”, a common frame of activity, which is defined by a memorandum of understanding and includes the following objectives:

- To develop common actions and initiatives that contribute in every way to the enhancement and promotion of safety at our coasts and seas
- To carry out training programmes and general information and education material for schools, public and private institutions
- To analyse the Observatory for Water Accidents data in common, with the aim to implement an action plan that will contribute to their reduction
- To cooperate with coastal Municipalities for the more effective lifeguard cover of beaches,
- and to cooperate for the promotion of legislative and regulatory changes, aiming at upgrading the services, training and means of lifeguard facilities.

As an Association, we are committed to accomplish our cause, take care of our defense and protect human’s life at sea.

This presentation of the report on incidents in water is the tool and basis for the important initiatives that are considered by all involved actors. We finally have a realistic representation of the incidents and their causes.

HALS offers its energy and resources to fully supports the noble and common objective that has been drawn by the non-profit organisation “Safe Water Sports”.

A handwritten signature in black ink, appearing to read 'M. Myronakis', written over a horizontal line.

MARIOS MYRONAKIS
President of the Hellenic Association of Lifeguard Schools

INTRODUCTION

In the last five years (2017-2021) 342 people on average lose their lives in the water in Greece, during a recreation activity (swimming, water sports, water recreation).

Water patrols, checks and audits by the competent public bodies, lifeguards and rescue services are very effective, but cannot be everywhere, at any given moment.

'Safe Water Sports' cooperates with institutions of the wider public sector, professional associations and other organisations, as well as with private businesses, in order to make activities in and around the water safer and reduce the risks of drowning.

The Organisation created the Observatory for Accidents in Water in Greece, which collects and processes information, helping to throw light on the causes and conditions under which these accidents happen.

The World Health Organisation (WHO) has recommended that every country puts together a National Strategic Plan for safety in water. The Observatory for Accidents assists Greece towards following this recommendation.

Drownings and fatal accidents in water are often complex and have multiple causes, but can be prevented through simple and coordinated action. Interventions such as the creation and maintenance of a safer environment, the improvement of current legislation, offering safe swimming training and raising awareness on the risks that our contact with water may entail can help all members of the public.

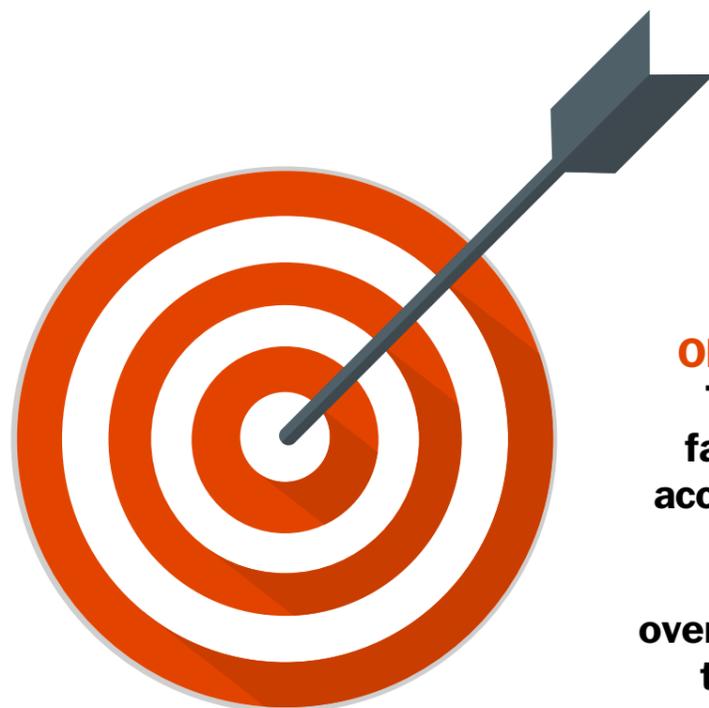
The Organisation has the knowledge and capability to approach groups of people at risk separately, with appropriate customised actions, in order to achieve a behaviour change. It can also identify the gaps in the institutional framework and take up initiatives for bridging them over.

A national strategy sets the basic pillars of action that we all need to focus on in order to make a difference. Prevention and the continuous reduction of the loss of human life are our ultimate goals.

Let us be more effective than ever, aiming at groups and activity areas with the appropriate action, informing about dangers, transforming the legal framework and - ultimately - providing greater safety to society as a whole.

OBJECTIVE

To prevent fatal water accidents, in cooperation with all interested institutions, so as to guarantee the safe enjoyment of sports and recreation in the water.

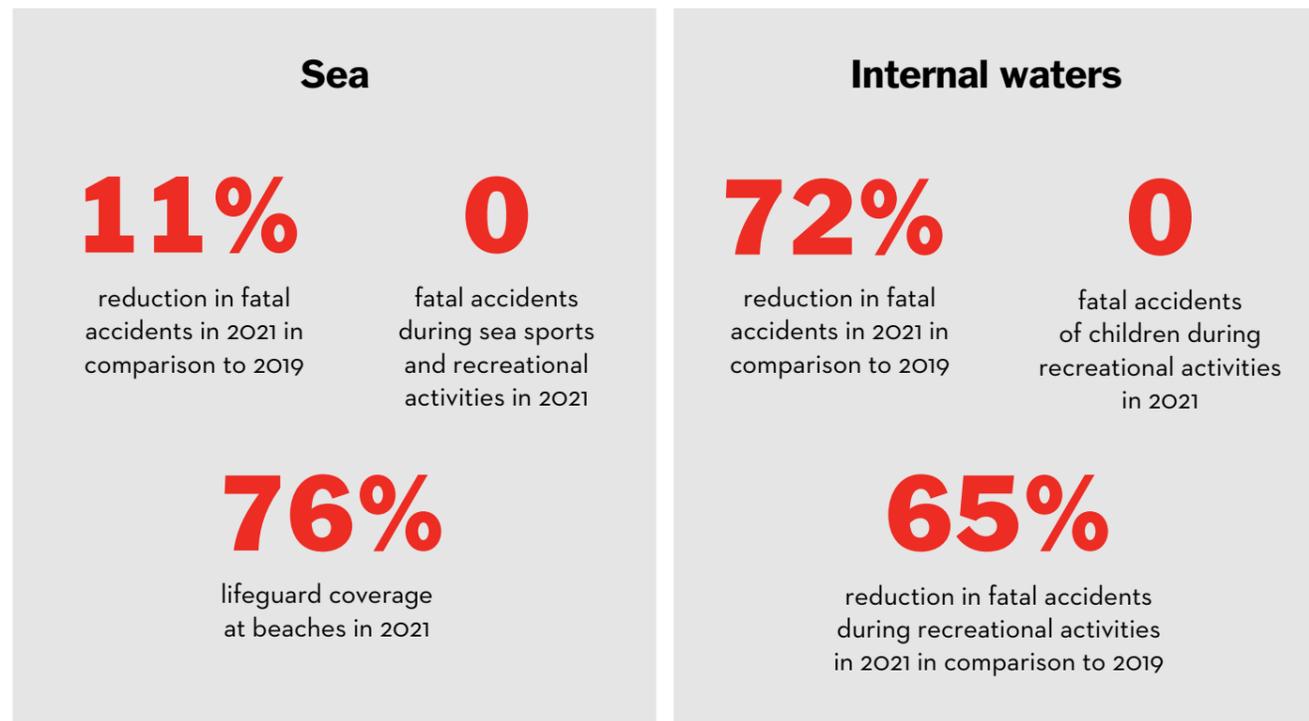


OBJECTIVE
To reduce fatal water accidents by
50%
over the next ten years.

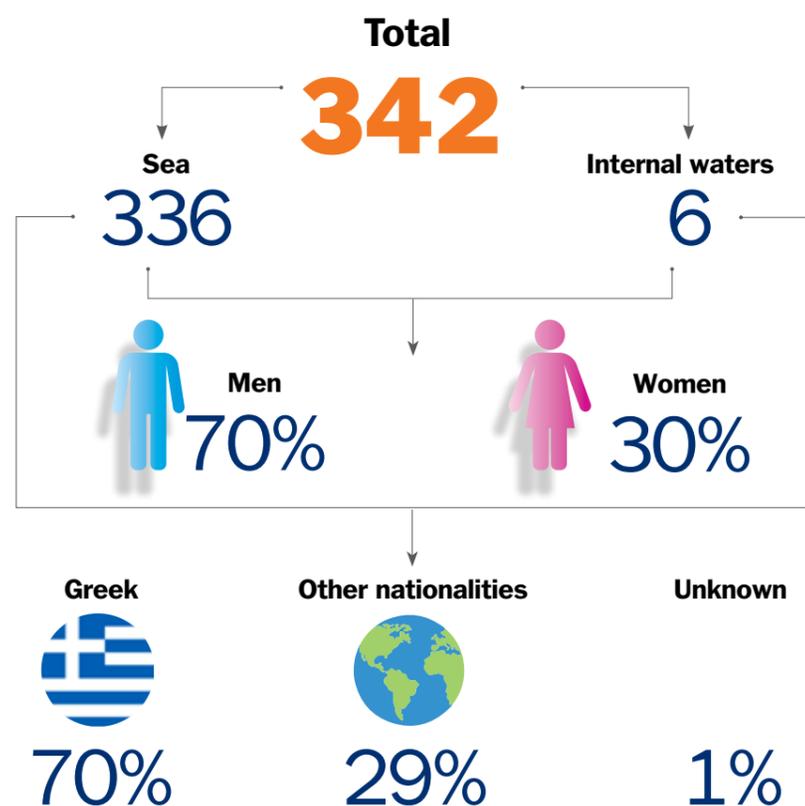
UNIT A

ACCIDENT ANALYSIS FOR 2021

THE MAIN RESULTS OF 2021



FATAL WATER ACCIDENTS IN THE AQUATIC ENVIRONMENT - 2021

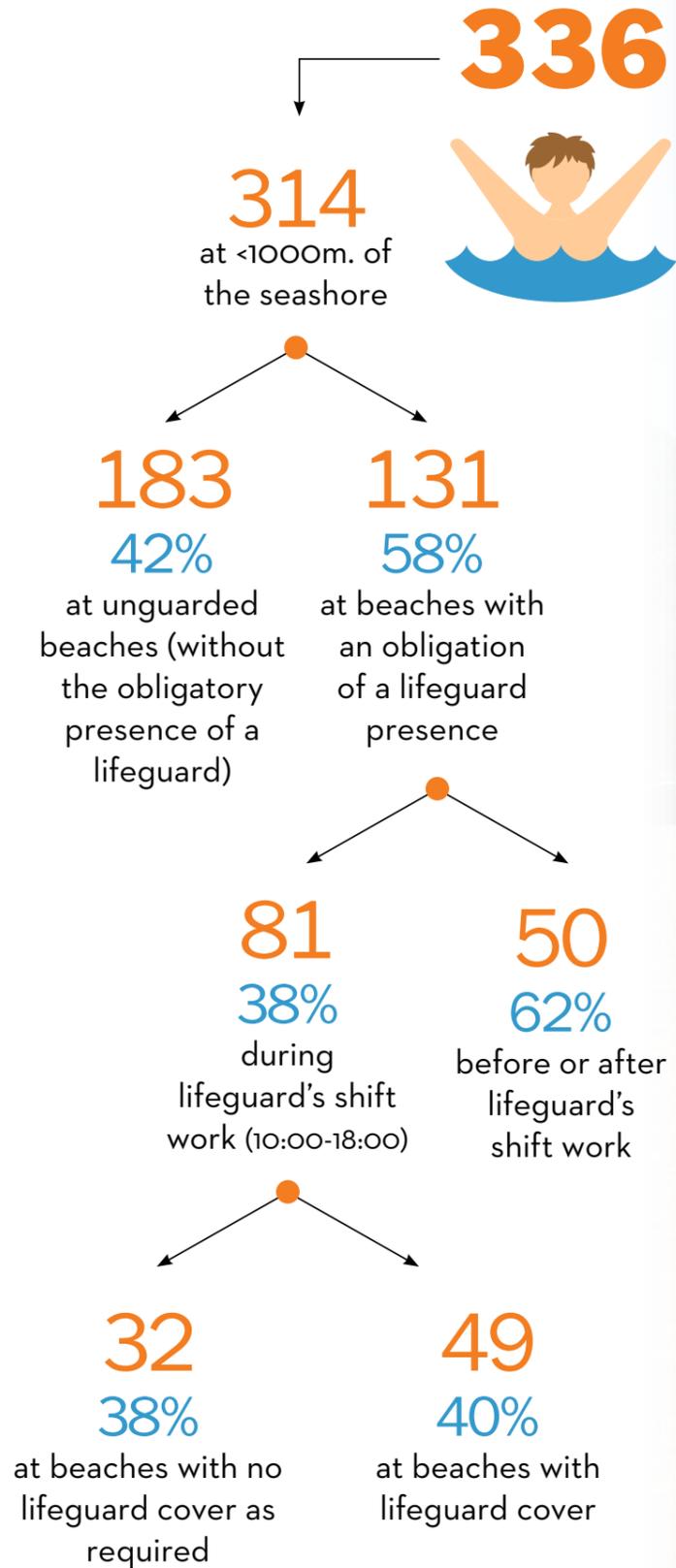


In 2021, 342 people lost their lives in the water in Greece while participating in recreational activities (swimming, water sports, water recreation activities). Of these, 336 lost their lives at sea, while another 6 in internal waters (lakes, rivers, pools, etc). Based on the data analysis, 70% (239) of the victims were men and the rest 30% (103) women. 70%(239) were Greek, 29% foreign και 1% of unknown nationality. In the following chapters of this study we will present and analysis of the accidents (fatal and injuries only) that take place while participating in some recreational activity.

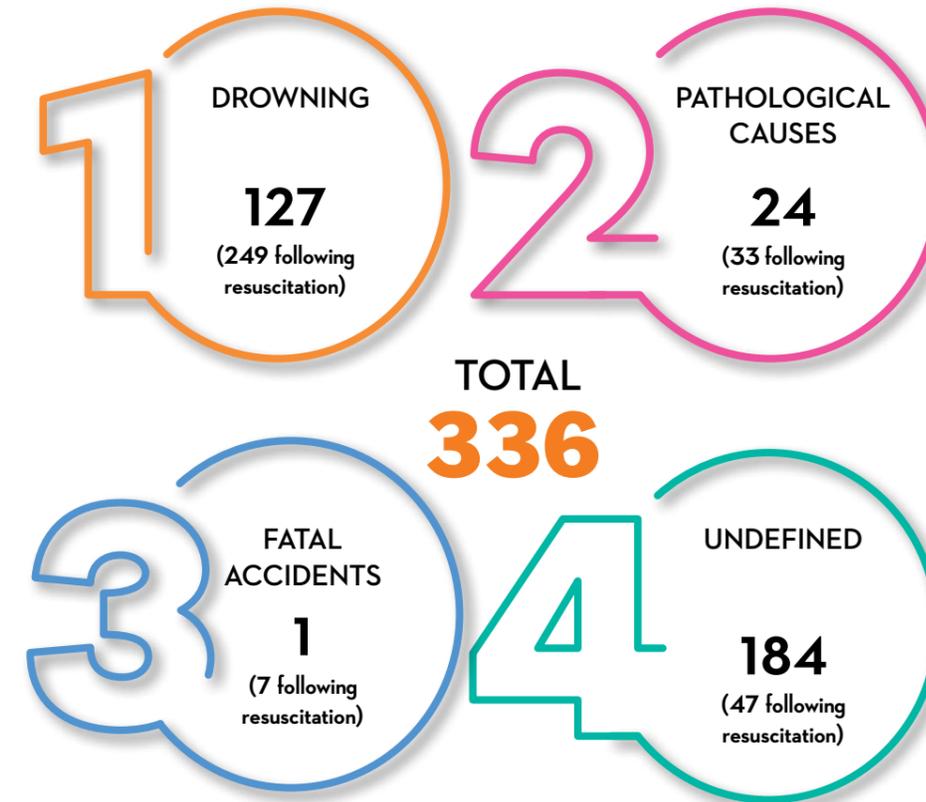
CHAPTER 1

ACCIDENTS AT SEA DURING RECREATIONAL ACTIVITIES

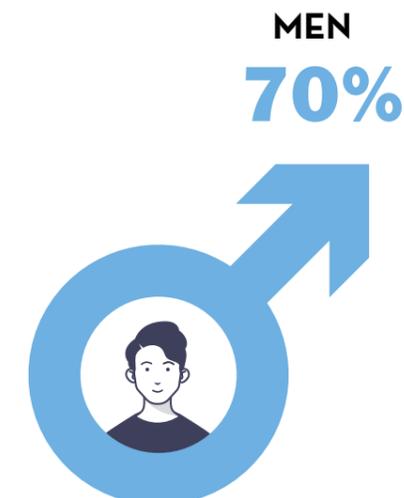
FATAL ACCIDENTS



TYPE OF FATAL ACCIDENT



336 PEOPLE LOST THEIR LIVES AT SEA IN 2021

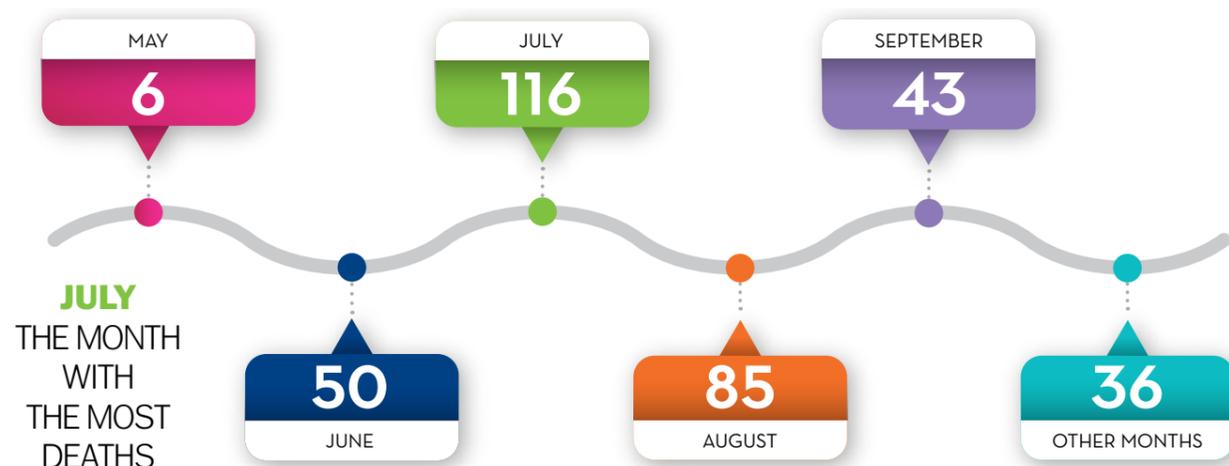


Out of the 336 deaths that happened during sea recreational activities in 2021, 127 are due to drowning (38%), 24 to pathological causes (7%), 1 to fatal accident and 184 (55%) have not yet been defined. We characterize as “undefined” those deaths where the coroner’s report detailing the cause of death has not yet been completed. This process takes approximately one year to complete, so, the majority of the incidents are categorized either as drownings or as due to pathological causes or to fatal accidents, or they are yet undefined. According to the last four-year average (2017-2020), 74% of deaths are due to drowning, 10% to pathological causes, 2% to fatal accidents and 14% is yet to be defined. In order to have a more consistent representation of the 2021 data, we will apply the same analogy. According, therefore, to this hypothesis, when all the coroner’s reports have been completed, the drownings are estimated to be 249, deaths from pathological causes to be 33, deaths from fatal accidents to be 7 and we have yet to define 47 deaths.

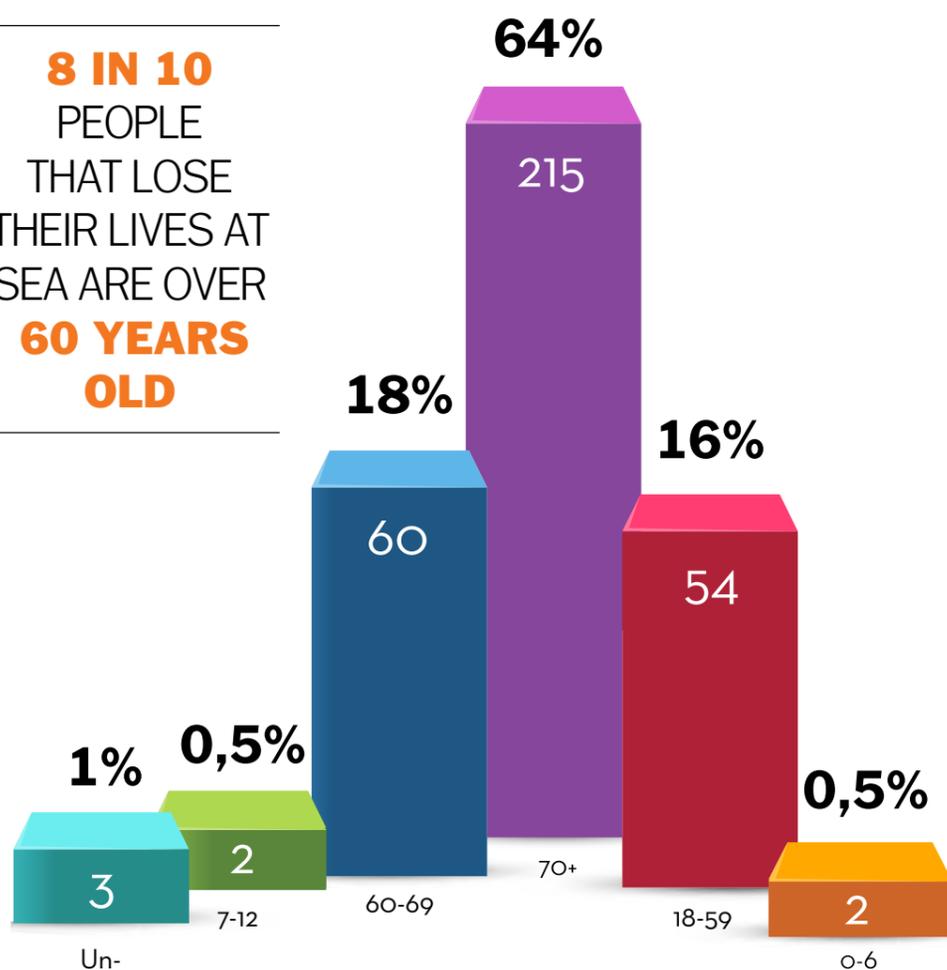
TIME UNIT (MONTH)

As the data show, most fatal accidents are recorded during the summer months (such as in July), during which, both Greek nationals and the greatest number of tourists that visit Greece choose to swim or practice some recreational or sports activity in the sea.

In 2021 the lifeguard coverage at beaches was significantly delayed due to the pandemic as it started on June 21 with the according legislation for those who had not completed the procedures by then. (On 2nd June, 2021 through the act of "Election of Municipalities and Regional Authorities and other provisions "and in particular through the Article no. 101 "Arrangements for the coverage period of lifeguards").



8 IN 10 PEOPLE THAT LOSE THEIR LIVES AT SEA ARE OVER **60 YEARS OLD**



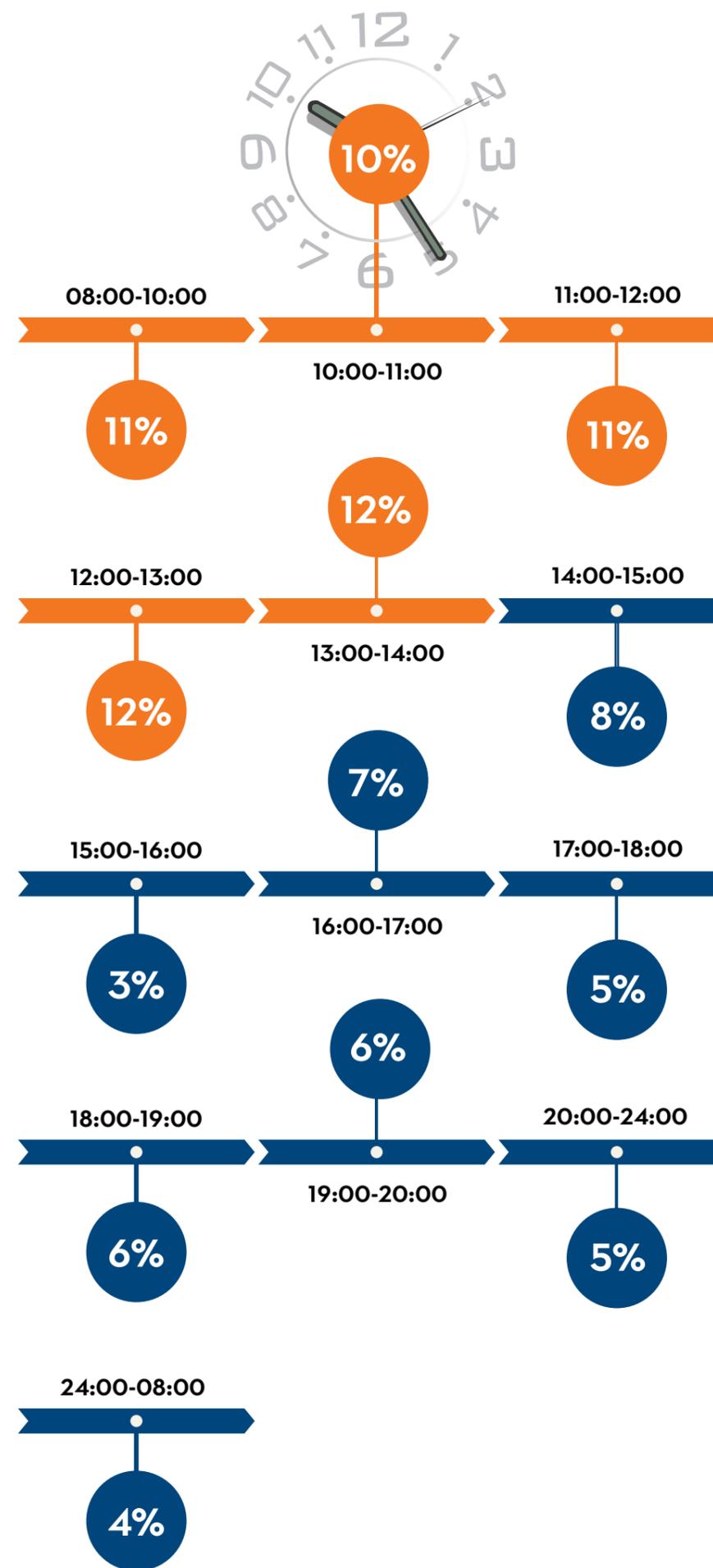
AGES

Out of 336 fatal accidents, 275 were people over 60 years old (82%), 54 people between 18-59 years old, 4 children aged 0-12 and 3 of unknown age. Based on these data, Safe Water Sports in cooperation with the Ministry of Maritime Affairs and Insular Policy, the Coast Guard and the support of the Ministry of Health, created a series of information actions in the summer of 2020, aiming at informing older people about the risks at sea and the necessary measures they need to take.

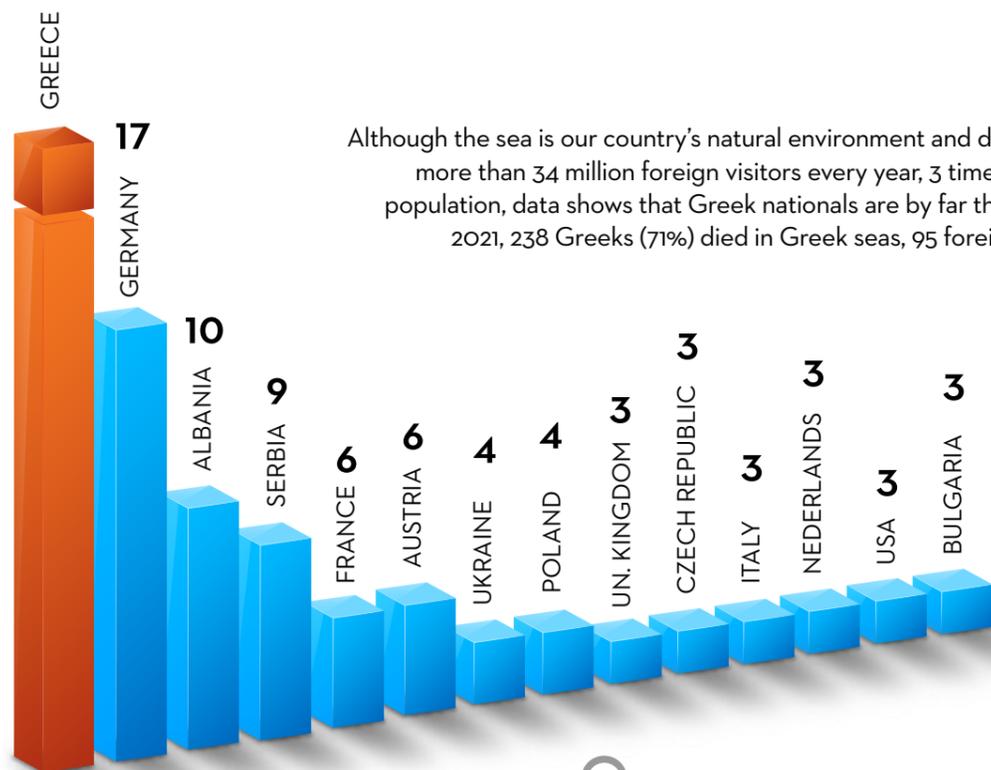
TIME UNIT (HOUR)

The period of time between 12:00-14:00 records most incidents of fatal accidents (24%). It is remarkable that the time period of 08:00 - 10:00 follows with 11% of cases being recorded. This is the time when fewer people go to the beach, however more older people (60+, accounting for 82% of the total victims) choose to go swimming in the sea in the early morning hours, which may explain the above. Additionally, the 11% of death cases are also recorded between 11:00-12:00 as this is the time when most people go to the beach.

It is also worth noting that the lifeguard cover of beaches begins at 10:30 until 17:30. This data has been taken into consideration during the drafting of the new Presidential Decree 71/2020, concerning lifeguard cover of beaches, which was passed in 2020 and took effect in 2021, whereby the schedule of lifeguard cover at beaches increased by one hour (from 10:30-17:30 -7 hours to 10:00-18:00 - 8 hours), allowing for local authorities to potentially extend this further. In 2021, at 56 beaches it was determined an extension of lifeguard coverage.



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Although the sea is our country's natural environment and despite the fact that we receive more than 34 million foreign visitors every year, 3 times over the number of our total population, data shows that Greek nationals are by far those that lose their lives in it. In 2021, 238 Greeks (71%) died in Greek seas, 95 foreigners & 3 unidentified victims.

NATIONALITIES

238
GREEKS LOST
THEIR LIVES
AT SEA IN
2021



MUNICIPALITIES

Based on the collected data, the Municipalities of Rhodes, Salamina & Nea Propontina had the most fatal accidents (drownings etc.), which is also connected to the reduced lifeguard cover of these beaches in relation to what the relevant laws dictate. With the 71/2020 Presidential Decree that is implemented since summer period of 2021, the requirements for lifeguard cover are extended to more beaches across the country.

FATAL ACCIDENTS

The following table shows fatal accidents in 2021 per Municipality

REGION	MUNICIPALITY	TOTAL DEATHS	DROWNING	PATHOLOGICAL CAUSES	FATAL ACCIDENT	NON DEFINED
SOUTH AEGEAN	AGATHONISI	1				1
THESSALY	AGIA	4				4
CRETE AGIOS	VASILIOS	2	2			
ATTICA	AGISTRI	1	1			
WESTERN GREECE	AEGIALIA	5				5
ATTICA	AEGINA	2	1			1
EAST. MACEDONIA & THRACE	ALEXANDROUPOLI	4	3	1		
ATTICA	ALIMOS	4				4
THESSALY	ALMYROS	2	1			1
THESSALY	ALONISOS	1				1
WESTERN GREECE	AMFILOCHIA	3	1	1		1
CENTRAL MACEDONIA	AMFIPOLI	1				1
PELOPONNESE	EASTERN MANI	3	3			
WESTERN GREECE	ANDRAVIDA - KYLLINI	2	1			1
SOUTH AEGEAN	ANDROS	1				1
IONIAN ISLANDS	ARGOSTOLI	4	1			3
PELOPONNESE	ARGOS-MYKINES	2				2
CENTRAL MACEDONIA	ARISTOTELIS	2	1			1
EPIRUS	ARTA	1	1			
ATTICA	ASPROPYRGOS	1		1		
ATTICA	VARI-VOULA-VOULIAGMENI	7	1			6
PELOPONNESE	VELOY-VOCHA	2	1	1		
CENTRAL MACEDONIA	VOLVI	4				4
THESSALY	VOLOS	3	3			
IONIAN ISLANDS	NORTH CORFU	2	2			
PELOPONNESE	NORTH KINOURIA	2	2			
CRETE	GAVDOS	1				1
ATTICA	GLYFADA	3		1		2
THESSALY	WESTERN TEMPI	1				1
CENTRAL MACEDONIA	DELTA	1				1
CENTRAL GREECE	DELFOI	2	2			
CENTRAL MACEDONIA	DIOS-OLYMPUS	6		1		5
CENTRAL GREECE	DISTOMO ARACHOVA-ANTIKIRA	2	2			
WESTERN GREECE	WESTERN ACHAIA	2				2
NORTH AEGEAN	WESTERN LESVOS	1				1
CENTRAL GREECE	DORIDOS	2				2
CENTRAL GREECE	ERETRIA	2	2			
PELOPONNESE	ERMIONIDA	6	1			5
IONIAN ISLANDS	ZANTE	7	3	1		3
WESTERN GREECE	ZACHARO	1				1
EPIRUS	IGOUMENITSA	2	2			
EAST.MACEDONIA & THRACE	THASOS	1				1
CENTRAL GREECE	THERMAIKOS	5	2	2		1
CENTRAL GREECE	THESSALONIKI	4	3			1
SOUTHERN AEGEAN	THIRA	2	1			1
WESTERN GREECE	IERA POLI MESOLLOGIU	1				1
SOUTH AEGEAN	ITON	1	1			

REGION	MUNICIPALITY	TOTAL DEATHS	DROWNING	PATHOLOGICAL CAUSES	FATAL ACCIDENT	NON DEFINED
IONIAN ISLANDS	ITHACA	1	1			
NORTH AEGEAN	IKARIA	1				1
CENTRAL MACEDONIA	KALAMARIA	2	2			
PELOPONNESE	KALAMATA	1				1
CRETE	KANTANOU-SELINOI	2				2
SOUTH AEGEAN	KARPATOS	1				1
CENTRAL GREECE	KARYSTOS	4	3	1		
CENTRAL MACEDONIA	CASSANDRA	4				4
CENTRAL MACEDONIA	KATERINI	3	2			1
IONIAN ISLANDS	CENTRAL CORFU	7	4	1		2
CRETE	KISSAMOS	2				2
PELOPONNESE	KORINTHOS	4	2			2
ATTICA	KROPIA	2	1	1		
ATTICA	KITHIRA	1	1			
CENTRAL GREECE	KIMI-ALIVERI	1				1
SOUTH AEGEAN	KOS	1	1			
ATTICA	LAVROTIKI	1	1			
NORTH AEGEAN	LIMNOS	2				2
IONIAN ISLANDS	LIXOURI	1				1
CENTRAL GREECE	LOKRON	2				2
PELOPONNESE	LOUTRAKI-PERACHORA - AG.THEODOROI	4				4
CRETE	MALEVIZIOU	3	2	1		
ATTICA	MARATHONA	5	4	1		
ATTICA	MARKOPOULO	4	3	1		
EAST. MACEDONIA & THRACE	MARONIA-SAPON	2	2			
ATTICA	MEGARA	6	5			1
PELOPONNESE	MESSINIA	1				1
SOUTH AEGEAN	MILOS	2	2			
PELOPONNESE	MONENVASIA	1				1
SOUTH AEGEAN	MYKONOS	2				2
CENTRAL GREECE	MOLOS-AGIOS KONSTANTINOS	1				1
SOUTH AEGEAN	NAXOS	2	2			
WESTERN GREECE	NAFPAKTIA	2				2
PELOPONNESE	NAFPLIO	3	2	1		
CENTRAL MACEDONIA	NEA PROPONTIDA	9				9
IONIAN ISLANDS	SOUTH AEGEAN	2	2			
PELOPONNESE	SOUTH KINOURIA	1				1
THESSALY SOUTH	PILIO	3	3			
PELOPONNESE	KSYLOKASTRO-EVROSTINI	1	1			
EAST. MACEDONIA & THRACE	PAGGAIOS	1				1
ATTICA	PALAIIO FALIRO	2				2
IONIAN ISLANDS	PAXOI	1	1			
EPIRUS	PARGA	1				1
SOUTH AEGEAN	PATMOS	3		1		2
WESTERN GREECE	PATRA	5				5
ATTICA	PIREAS	1				1
CRETE	PLATANIAS	1				1
CENTRAL MACEDONIA	POLIGIROS	3				3
EPIRUS	PREVEZA	4	4			
CENTRAL MACEDONIA	PYDNA-KOLINDROU	2	1			1
PELOPONNESE	PYLOS-NESTOROS	3	2	1		
WESTERN GREECE	PIRGOS	2	1			1
CRETE	RETHYMNO	6	3			3
SOUTH AEGEAN	RHODES	12	1			11
ATTICA	SALAMINA	9				9

REGION	MUNICIPALITY	TOTAL DEATHS	DROWNING	PATHOLOGICAL CAUSES	FATAL ACCIDENT	NON DEFINED
NORTH AEGEAN	SAMOS	2	2			
ATTICA	SARONIKOS	5	1	1		3
CRETE	SITIA	2	2			
CENTRAL MACEDONIA	SITHONIA	6			1	5
PELOPONNESE	SIKYONA	1	1			
SOUTH AEGEAN	SIFNOS	1				1
THESSALY	SKIATHOS	1				1
ATTICA	SPATA-ARTEMIDA	4	2	2		
CENTRAL GREECE	STYLIDA	4	2			2
SOUTH AEGEAN	SIMI	1		1		
SOUTH AEGEAN	SYROS	3		2		1
CRETE	SFAKIA	1				1
CENTRAL GREECE	TANAGRA	2	1			1
SOUTH AEGEAN	TILOS	1				1
SOUTH AEGEAN	TINOS	2				2
PELOPONNESE	TRIFILIA	1				1
ATTICA	TRIZINIA METHANA	1	1			
SOUTH AEGEAN	FOLEGANDROS	1	1			
CENTRAL GREECE	CHALKIDA	8	5			3
CRETE	CHANIA	5				5
CRETE	CHERSONISOS					
NORTH AEGEAN	CHIOS	3				3
NORTH AEGEAN	PSARA	1				1
ATTICA	OROPOS	2	2			

FATAL ACCIDENTS

The following chart shows fatal accidents in 2021 per region

REGION	TOTAL DEATHS	DROWNING	PATHOLOGICAL CAUSES	FATAL ACCIDENTS	NON DEFINED
EASTERN MACEDONIA & THRACE	8	5	1		2
ATTICA	61	24	8		29
NORTH AEGEAN	10	2			8
WESTERN GREECE	23	3	1		19
EPIRUS	8	7			1
THESSALY	15	7			8
IONIAN ISLANDS	25	14	2		9
CENTRAL MACEDONIA	52	11	3	1	37
CRETE	31	13	1		17
SOUTHERN AEGEAN	37	9	4		24
PELOPONNESE	36	15	3		18
CENTRAL GREECE	30	17	1		12

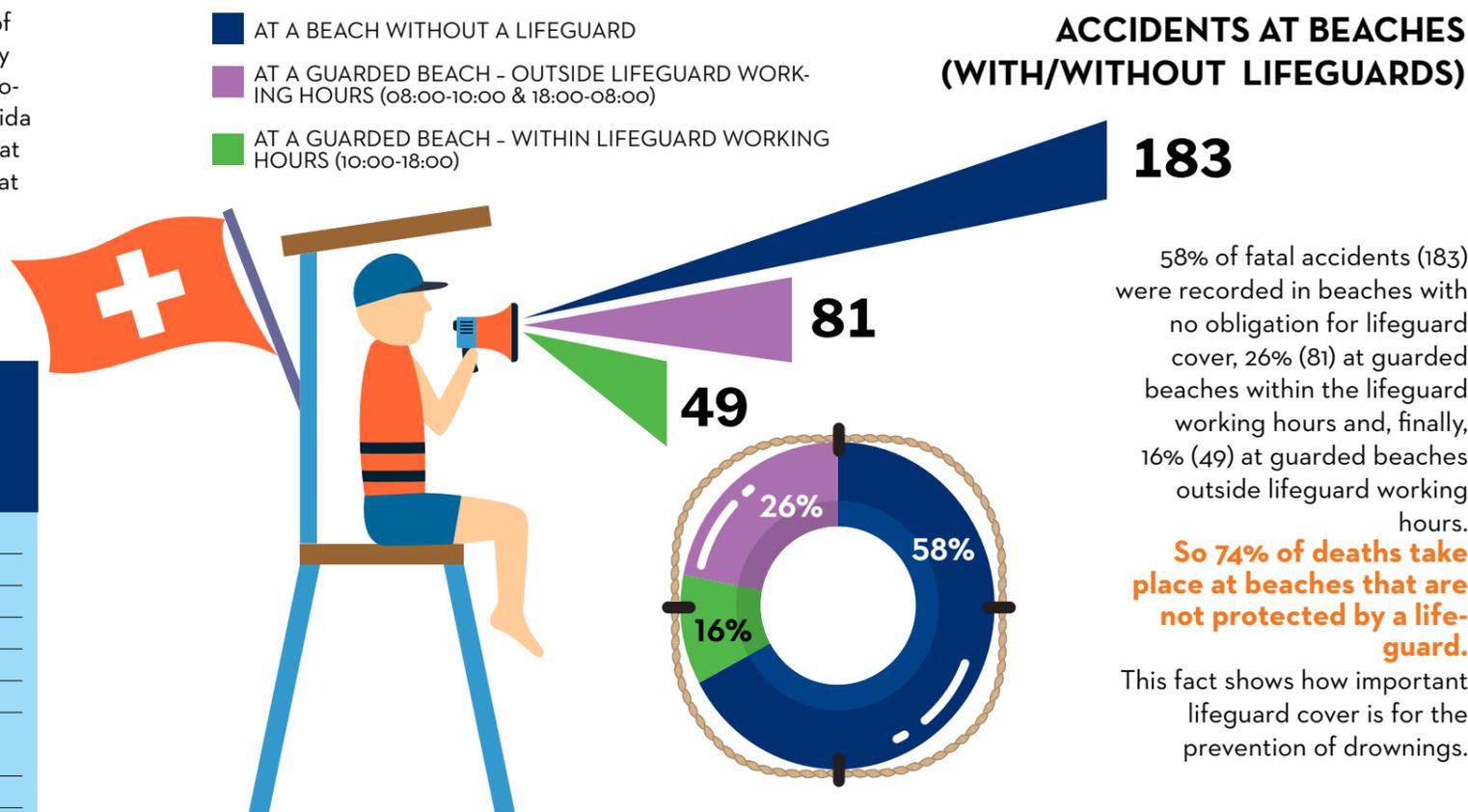
BEACHES

The following table shows the beaches where the most fatal accidents happened in 2021, as well as the number of lifeguards that should have been appointed in the specific beach by the Municipality or the responsible authority vs. the ones that were in the end appointed. In A'Alipedo Alimos beach at the Municipality of Alimos, in Akti N.Poron at the Municipality of Dios-Olympos, in Rethymno beach at the Municipality of Rethymno and in Vatheos Avlida at Municipality of Chalkida, there were 4 fatal accidents. Additionally, in the beaches Western beach of Stavros at the Municipality of Volvi, in the Sarti beach at the Municipality of Sithonia and in the New beach of Thessaloniki at the Municipality of Thessaloniki, 3 people lost their lives accordingly.

In the beaches of Western beach of Stavros, New beach of Thessaloniki and Vatheos Avlida even if there was no obligation for a lifeguard presence on these beaches, there were fatal accidents that lead to an increased concern regarding this decision.

MUNICIPALITY	BEACH NAME	TOTAL OF FATAL ACCIDENTS	LIFEGUARDS THAT SHOULD HAVE BEEN APPOINTED BASED ON LAW	LIFEGUARDS THAT WERE APPOINTED IN THE END
ALIMOS	A' ALIPEDEO ALIMOS	4	1	1
DIOS-OLYMPOS	AKTI N.PORON	4	3	3
RETHYMNO	RETHYMNO	4	8	8
CHALKIDA	VATHEOS AVLIDA	4	0	0
VOLVI	WESTERN BEACH OF STAVROU	3	0	0
THESSALONIKI	NEA PARALIA THESSALONIKIS	3	0	0
SARONIKOS	48TH KM OF ATHENS-SOUNIO AVENUE 2ND BEACH	2	0	0
STYLIDA	AGIA MARINA	2	0	0
SPATA-ARTEMIDA	FROM AGIO NIKOLAO CHURCH TO THE END OF IONIAS STR.	2	1	1
MARATHONA	FROM AGIA MARINA STR. TO AGIO PANTELEIMONA	2	2	2
KALAMARIA	ARENTZOU MARINA KALAMARIA THESSALONIKIS	2	0	0
DIOS-OLYMPOS	VARIKOU	2	0	0
LOKRON	VLYCHADA MALESINAS	2	0	0
CHERSONISO	GOURNES	2	0	0
NAFPAKTIA	GRIBOCO	2	0	0
NEA PROPONTIDA	DIONYSOU	2	1	1
POLYGYROS	KALYVES	2	1	1
NAFPLIO	KARATHONA	2	4	4
PREVEZA	KIANI AKTI	2	1	1
ZANTE	LAGANA (FROM CENTRAL ROAD OF LAGANA TO LOUIS HOTEL))	2	3	0
AMPHILOCHIA	MENIDI	2	1	1
NEA PROPONTIDA	N.KALLIKRATIA	2	1	1
THERMAIKOS	NEON EPIVATON	2	1	1
VARI-VOULA-VOULIAGMENI	ORGANIZED PART OF THE BEACH A 'ALIPEDEO VOULA	2	2	2
KROPIA	AGIA MARINA BEACH KOROPI	2	1	1
ALEXANDROUPOLI	PLAZ CAMPING	2	1	1
TANAGRA	PLAKA DILESI	2	2	2
PATRA	TSOUKALAIKA	2	0	0
RHODES	FALIRAKI KATHARA	1	0	0
KASSANDRA	FOURKA	2	1	1
CHANIA	XRYSI AKTI	2	2	2

ACCIDENTS AT BEACHES (WITH/WITHOUT LIFEGUARDS)



58% of fatal accidents (183) were recorded in beaches with no obligation for lifeguard cover, 26% (81) at guarded beaches within the lifeguard working hours and, finally, 16% (49) at guarded beaches outside lifeguard working hours.

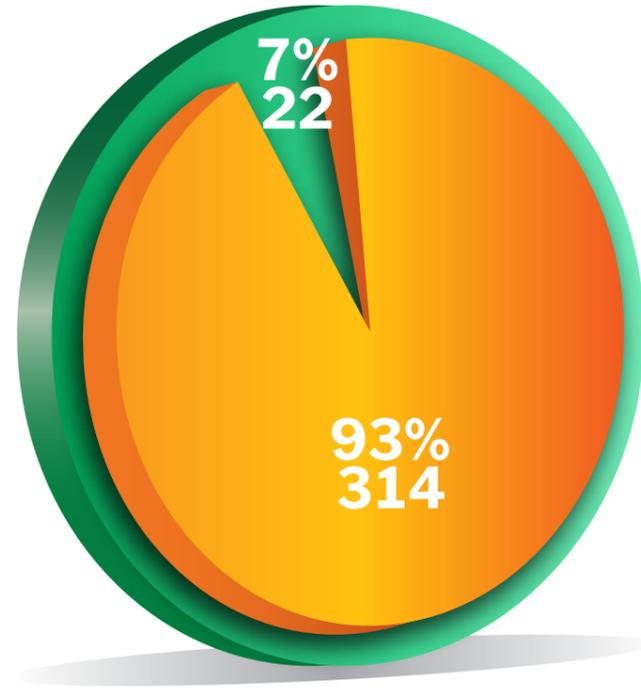
So 74% of deaths take place at beaches that are not protected by a lifeguard.

This fact shows how important lifeguard cover is for the prevention of drownings.



ACCIDENTS AT BEACHES BELONGING TO THE NATIONAL BEACH REGISTER

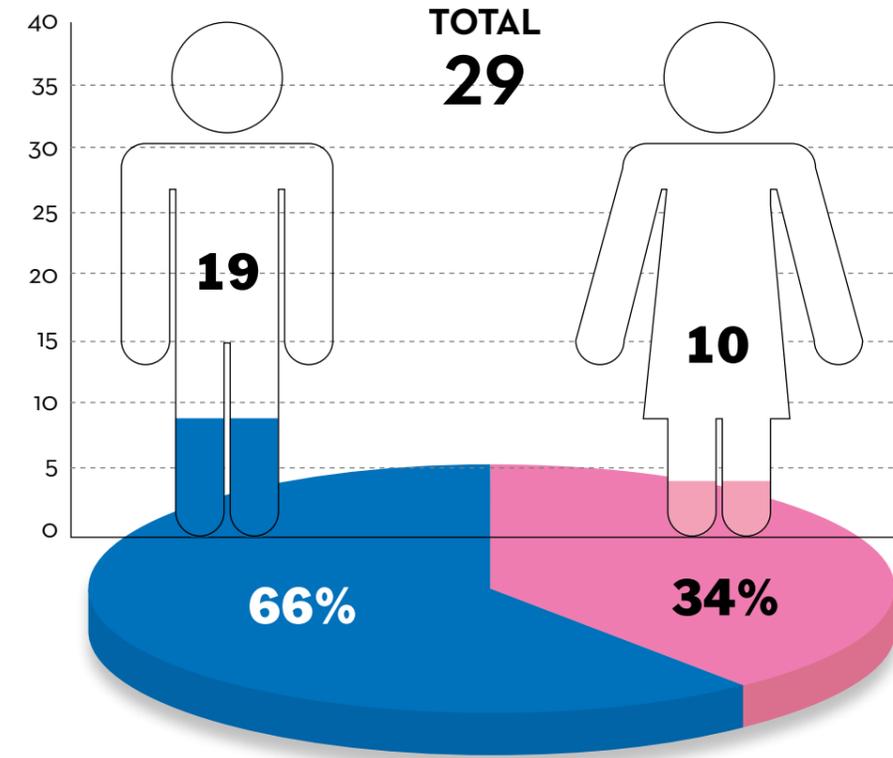
- AT A REGISTERED BEACH
- IN THE OPEN SEA/
AT A NON REGISTERED BEACH



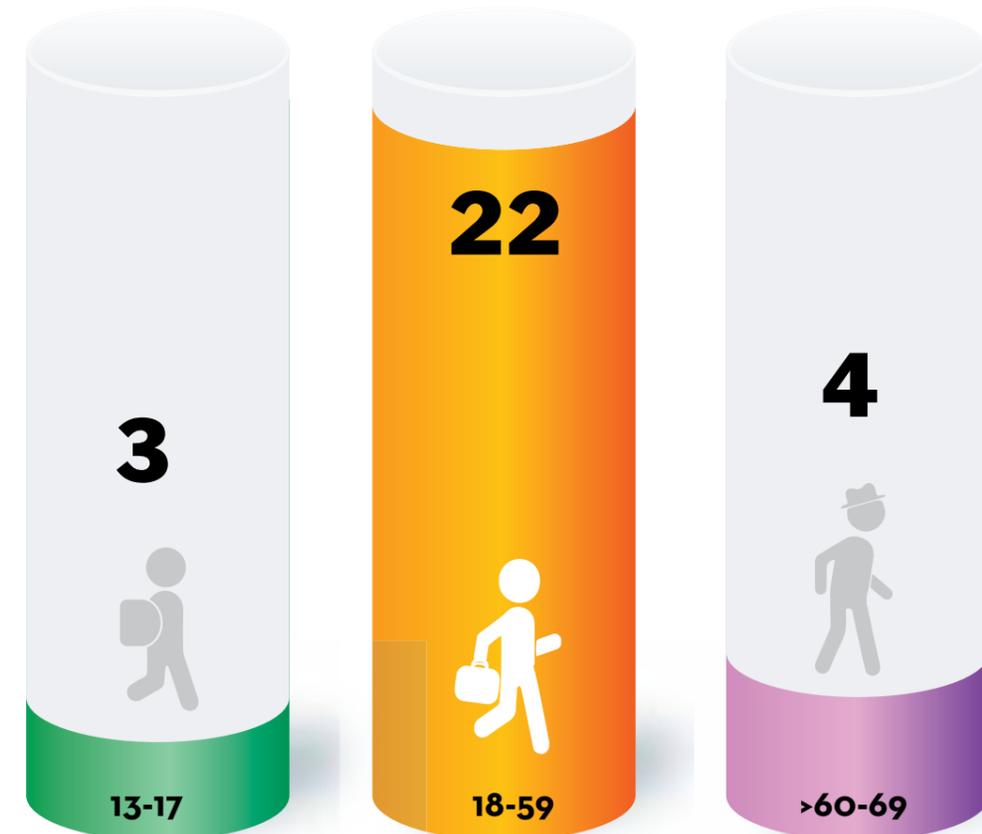
Greece has a coastline of 13,676 Km. The beaches and locations where one can enjoy swimming and recreational activities are endless. The Observatory of Accidents has created the National Beach Register, where more than 3,400 beaches are registered, enabling a better monitoring of incidents. The beaches included in the Beach Register are in their majority popular beaches (organised and non-organised). An incident (accident or injury) is considered to have taken place on a specific beach of the Beach Register if it happened less than 1 klm from the coast. At a longer distance, it is considered to have taken place in the open sea and is not correlated with any beach from the Register. Equally, if it happens close to the coastline, but in a location that is not recorded as a registered beach, again the incident is not connected to a Register beach. The data analysis shows that 93% of fatal accidents takes place at a distance less than 1klm from the coast and at a registered beach. Therefore, if we could protect and monitor these 3,400 registered beaches better, we could significantly reduce human loss.



INJURIES AT SEA



The Observatory for Accidents records the injuries that happen at sea, when these are reported to the Coast Guard. Non-reported incidents are not included in this analysis. In 2021 a total of 29 injuries were reported to Coast Guard authorities across Greece. From these, 66% (19) involved men and 34% (10) involved women.



AGES
76% of injuries (22) involve people aged 18-59, as expected, as these are the most active age groups at sea. 14% involves people over 60, who are more vulnerable to injury due to age and lack of attention and 10% involves children aged 13-17 years old.

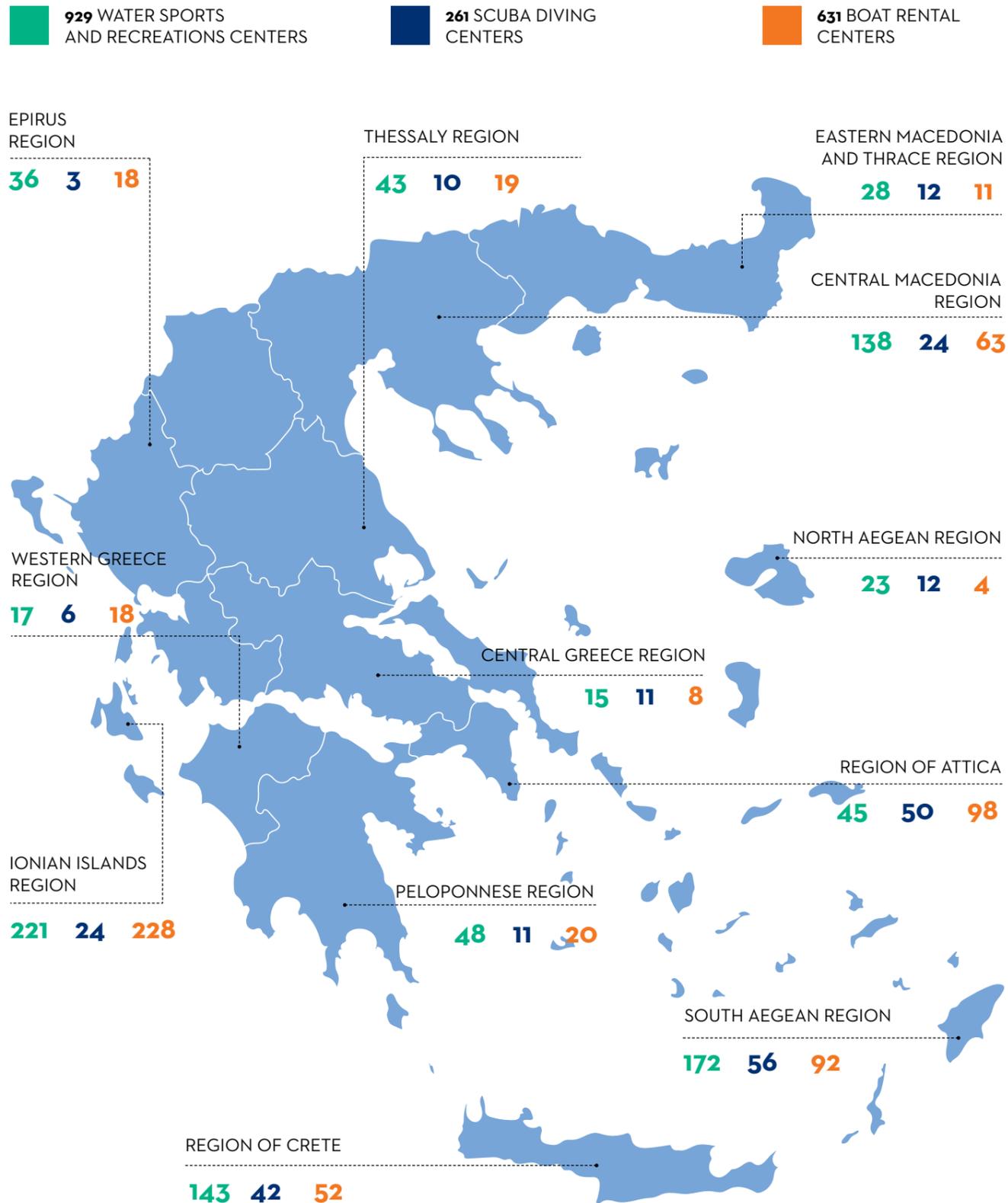


CHAPTER 2

ACCIDENTS DURING WATER SPORTS AND RECREATIONAL ACTIVITIES

WATER SPORTS AND RECREATION BUSINESSES IN GREECE

This data was recorded in 1/8/2021



MOST POPULAR SEA RECREATIONS

The following is a list of the most popular recreation activities, based on the number of centers that offer them.



SEA RECREATION SPORTS

0
DEATHS

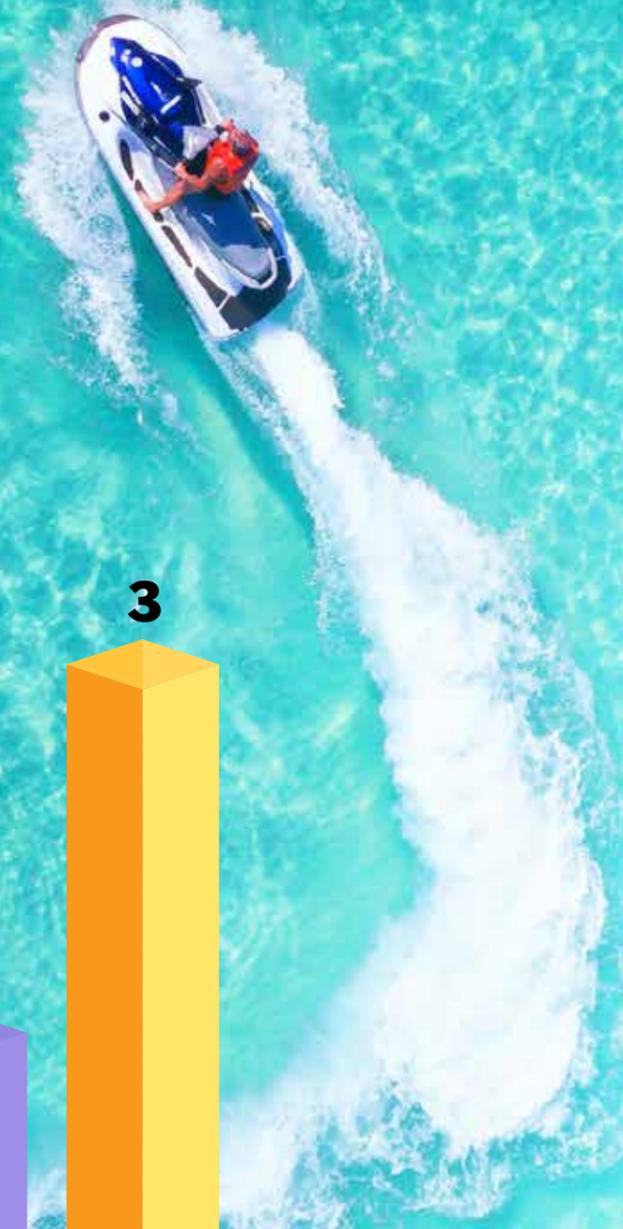
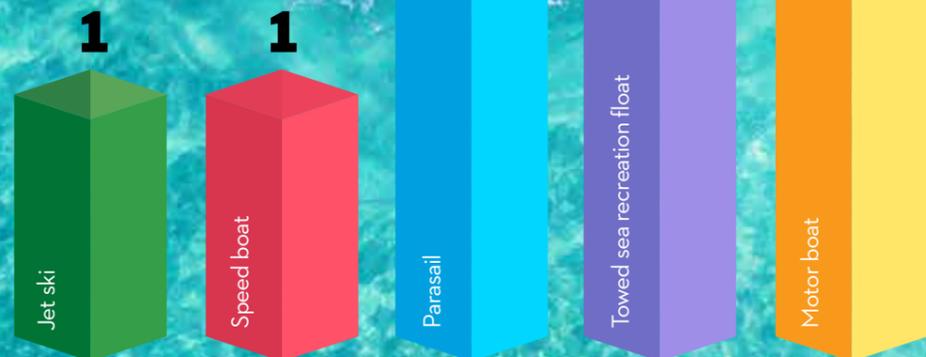
In 2021, no fatal accident involving a water sport or recreational vehicle was noted.

INJURIES

9 injuries of people who participated in sea recreation sports were reported to the Coast Guard.

TOTAL 9
DURING WATER SPORTS

AGES	
8	> 18 YEARS
1	13-17 YEARS



WHILE USING SPEED BOAT

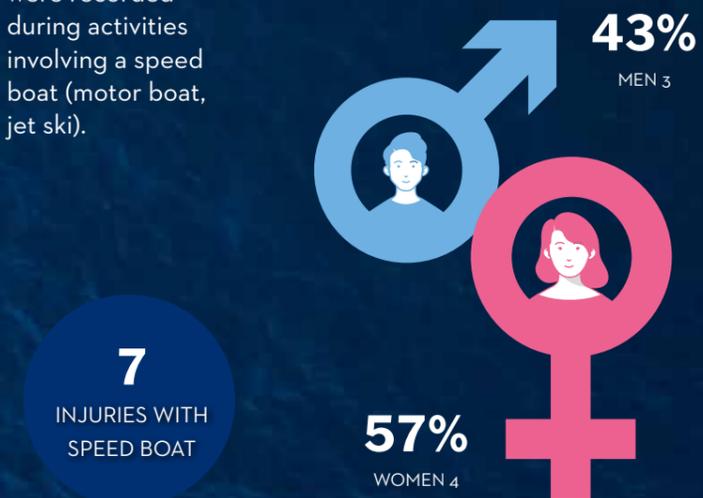
FATAL ACCIDENTS

In 2021, 6 deaths were recorded (2 drownings, 2 from pathological causes and 2 undefined) in incidents involving a speedboat. This stresses how careful speed boat handlers should be, as the risks to swimmers and to those on board are huge.

6
DEATHS FROM SPEEDBOAT

INJURIES

In 2021, 7 injuries were recorded during activities involving a speed boat (motor boat, jet ski).



7
INJURIES WITH SPEED BOAT





CHAPTER 3

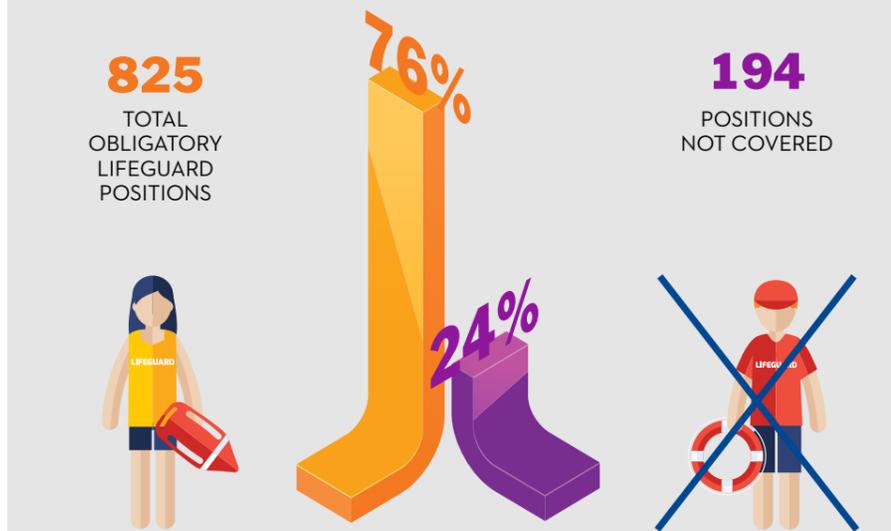
LIFEGUARD COVER

According to the current law, only bathing facilities that are either popular/highly frequented to the public or have a ticket entrance are obliged to have lifeguard cover. With the Presidential Decree (for 2020), for the drafting and formulation of which our Organisation played a pivotal role, the following important changes have taken place:

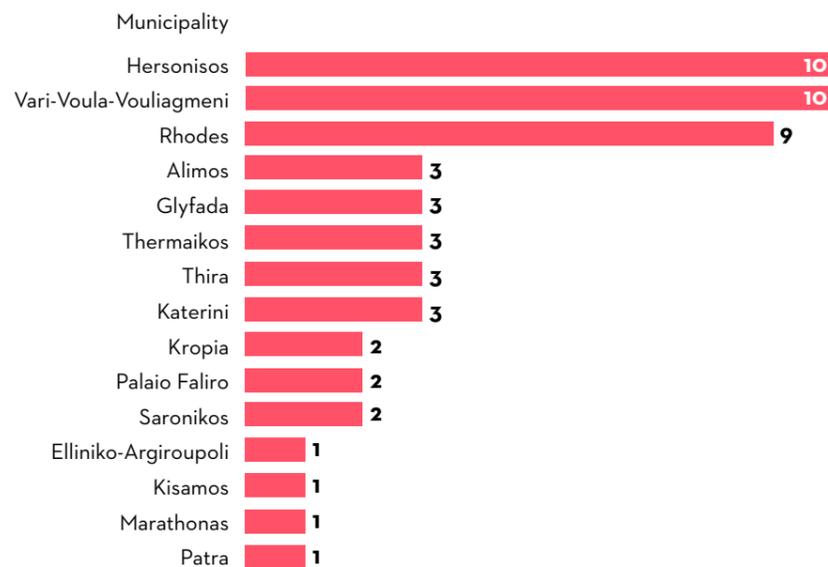
- ▶ The first 15 days of August is the period of time during which the committee determines whether a beach is popular/highly frequented, taking into consideration the average daily presence of three hundred (300) bathers at least, in every 1 klm of coastline during the rush hour, any accidents that have happened in the past or any other reasons connected to the local characteristics of the area.
- ▶ Obligatory lifeguard cover in beaches was extended from three months to four months, i.e. from 1st June to 30th September every year.
- ▶ Every lifeguard monitors the space of beach extending to 200 metres to each side of the stand (previously, with PD 31/2018 the span was 300 metres).
- ▶ If the beach is more than 400m long and is highly frequented, then a second lifeguard is necessary. If it is over 800m long, then a third lifeguard and so on.
- ▶ The decisions as to which beaches in every Municipality are popular/highly frequented are taken annually by a special 3-member committee, where the local Coast Guard, the competent Health Regional Authority and the Municipality are represented.



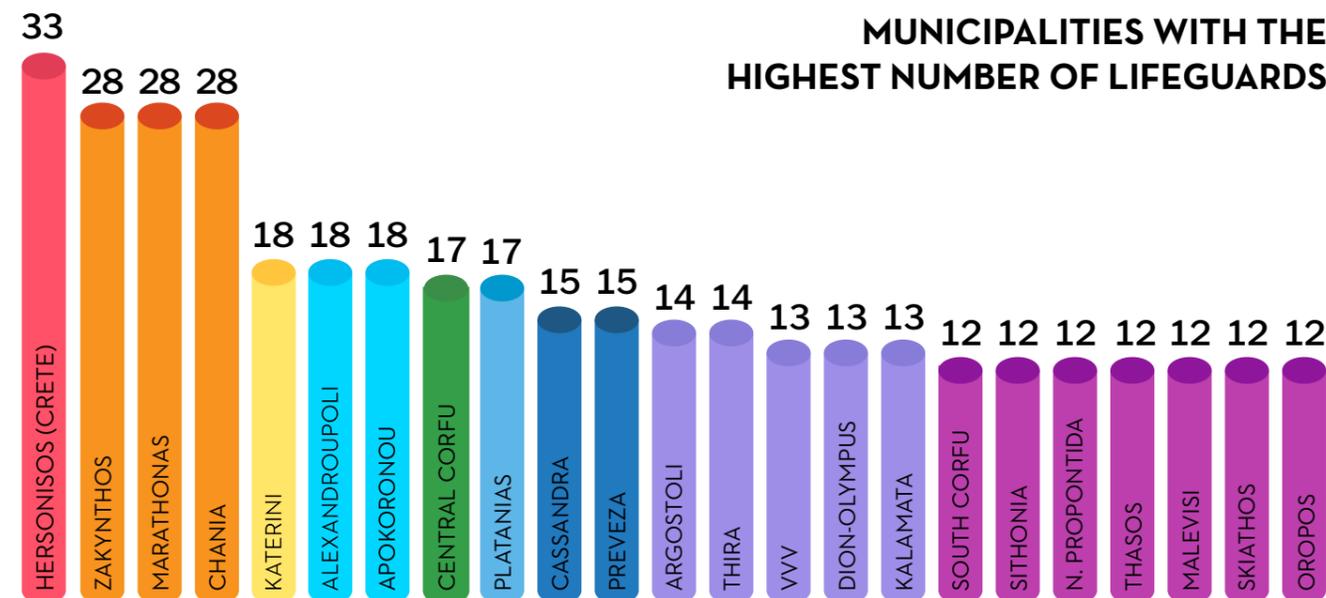
In 2021, 526 beaches were covered by a lifeguard as required. The total number of obligatory lifeguard positions (some beaches have more than one position) were 825. Based on the data from the end of the summer period, the beaches with lifeguard cover were 430, representing 82%, and the lifeguard positions were 631, accounting for 76%.



LIST OF 15 MUNICIPALITIES THAT EXTENDED LIFEGUARD COVER AT 54 BEACHES



MUNICIPALITIES WITH THE HIGHEST NUMBER OF LIFEGUARDS



LIFEGUARDS PER MUNICIPALITY MUNICIPALITY	OBLIGATION FOR LIFEGUARD COVERAGE		ACTUAL LIFEGUARD COVERAGE			
	BEACHES	POSITIONS	BEACHES	COVERAGE PERCENTAGE	POSITIONS	COVERAGE PERCENTAGE
Avdira	3	7	3	100	7	100
Agia	2	4	2	100	2	50
Agios Vassilios	2	3	2	100	3	100
Agios Nikolaos	3	3	3	100	3	100
Agistri	1	1	0	0	0	0
Aegialia	4	6	4	100	6	100
Aegina	1	1	0	0	0	0
Alexandroupoli	7	18	1	14	1	5
Alimos (in 3 beaches)	3	4	3	100	4	100
Amphilochia	2	2	2	100	2	100
Andravida Killini	3	3	3	100	3	100
Andritsaina - Krestenon	1	1	1	100	1	100
Andros	2	3	2	100	3	100
Antiparos	1	1	1	100	1	100
Apokoronas	5	18	5	100	18	100
Argostoli	8	14	8	100	14	100
Argos - Mycenae	3	3	3	100	3	100
Aristotelis	3	3	3	100	3	100
Vari - Voula - Vouliagmeni (in 10 beaches)	10	13	10	100	13	100
Velos - Vocho-Volvi	1	1	1	100	1	100
Volos	6	7	6	100	7	100
North Corfu	5	12	0	0	0	0
North Kinouria	2	4	2	100	4	100
Glyfada (in 3 beaches)	4	4	3	75	3	75
Tempi	1	3	1	100	1	33
Dion - Olympus	7	13	7	100	13	100
West Achaia	6	9	6	100	9	100
West Lesvos	2	2	1	50	1	50
West Mani	3	4	3	100	4	100
Doridos	2	3	2	100	3	100
Elafonisos	2	4	2	100	4	100
Elliniko-Argyroupoli (in 1 beach)	1	1	1	100	1	100
Eretria	2	2	2	100	2	100

MUNICIPALITY	OBLIGATION FOR LIFEGUARD COVERAGE		ACTUAL LIFEGUARD COVERAGE			
	BEACHES	POSITIONS	BEACHES	COVERAGE PERCENTAGE	POSITIONS	COVERAGE PERCENTAGE
Zagora - Mouresiou	5	7	0	0	0	0
Zakynthos	11	28	0	0	0	0
Zacharo	4	4	0	0	0	0
Igoumenitsa	6	10	6	100	10	100
Ilida	3	3	3	100	3	100
Heraklion Crete	1	1	1	18	1	100
Thassos	11	12	2	100	2	17
Thermaikos (in 3 beaches)	6	8	6	75	8	100
Thira (in 3 beaches)	4	14	3	100	13	93
Ierapetra	3	3	3	0	3	100
Holy City of Messolongi	2	4	0	0	0	0
Iton	1	3	1	0	3	100
Istiaea - Aedipos	1	2	0	0	0	0
Kavala	6	7	6	83	7	86
Kalamata	5	13	5	100	13	100
Kantanos - Selino	3	4	3	100	4	100
Kassandra	14	15	13	93	13	87
Katerini (in 3 beaches)	3	18	3	100	3	17
Kea	6	6	0	0	0	0
Central Corfu	7	17	0	0	0	0
Kissamos (in 1 beach)	7	9	7	100	9	100
Komotini	2	7	2	100	4	57
Corinthos	1	3	1	100	3	100
Kropia (in 2 beaches)	2	2	2	100	2	100
Kos	6	10	1	17	1	10
Lavreotiki	1	1	1	100	1	100
Lefkada	3	4	3	100	4	100
Limnos	1	1	1	100	1	100
Lixouri	2	2	2	100	2	100
Loutraki - Perachora - Agioi Theodoroi	3	7	3	100	7	100
Malevizio	7	12	7	100	12	100
Mandra - Eidyllia	1	3	0	0	0	0
Marathonas (in 1 beach)	11	28	11	100	28	100
Markopoulo Mesogaia	7	8	7	100	8	100
Megara	5	7	0	0	0	0
Messini	1	3	1	100	3	100
Milos	2	3	2	100	3	100
Mykonos	8	8	8	100	8	100
Mylopotamos	1	1	1	100	1	100
Mytilini	1	1	0	0	0	0
Molos- Ag. Konstantinos	2	3	2	100	3	100
Naxos & Small Cyclades	4	7	4	100	7	100
Nafpaktia	1	1	1	100	1	100
Nafplion	3	11	1	33	4	36
Nea Propontida	11	12	11	100	12	100
Nestos	2	3	2	100	3	100
South Corfu	7	12	0	0	0	0
South Kynouria	1	1	1	100	1	100
South Pelion	5	5	5	100	5	100
Paggaio	6	6	6	100	6	100
Palaio Faliro (in 2 beaches)	2	3	2	100	3	100
Parga	5	8	5	100	8	100
Paros	5	6	5	100	6	100
Patmos	3	3	0	0	0	0
Patra (in 1 beach)	8	10	8	100	10	100

MUNICIPALITY	OBLIGATION FOR LIFEGUARD COVERAGE		ACTUAL LIFEGUARD COVERAGE			
	BEACHES	POSITIONS	BEACHES	COVERAGE PERCENTAGE	POSITIONS	COVERAGE PERCENTAGE
Piraias	1	2	1	100	2	100
Pineios	3	3	3	100	3	100
Platania	4	17	4	100	17	100
Polygyros	4	4	4	100	4	100
Poros	1	1	1	100	1	100
Preveza	11	15	11	100	15	100
Pyrgos	8	8	7	87	7	87.5
Rafina - Pikermi	5	6	5	100	6	100
Rethymnon	6	19	6	100	19	100
Rigas Feraios	1	1	1	100	1	100
Rhodes (in 9 beaches)	9	13	9	100	13	100
Salamina	5	5	0	0	0	0
Sami	2	3	2	100	3	100
Saronikos (in 2 beaches)	5	7	5	100	7	100
Sitia	2	2	2	100	2	100
Sithonia	12	12	12	100	12	100
Skiathos	10	12	10	100	12	100
Skopelos	2	2	2	100	2	100
Spata - Artemida	6	9	6	100	9	100
Syros - Ermoupoli	4	4	4	100	4	100
Tanagra	1	2	1	100	2	100
Tilos	2	3	0	0	0	0
Tinos	4	5	4	100	5	100
Topiros	2	5	2	100	5	100
Trifylia	1	1	1	100	1	100
Festos	4	4	4	100	4	100
Chalki	1	1	0	0	0	0
Chalkida	4	9	4	100	9	100
Chania	15	28	15	100	28	100
Hersonissos (in 10 beaches)	33	33	33	100	33	100
Chios	6	10	6	100	10	100
Oropos	5	12	5	100	7	58

*Municipalities that extended the lifeguard coverage schedule in 2021.

LIFEGUARDS PER REGION

REGION	OBLIGATION FOR LIFEGUARD COVERAGE		ACTUAL LIFEGUARD COVERAGE			
	BEACHES	POSITIONS	BEACHES	COVERAGE PERCENTAGE	POSITIONS	COVERAGE PERCENTAGE
Eastern Macedonia & Thrace	39	65	23	56%	34	52%
Attica	77	118	63	82%	95	80%
North Aegean	10	14	8	80%	12	86%
Western Greece	45	54	38	84%	45	83%
Epirus	22	33	22	100%	33	100%
Thessaly	32	41	27	84%	30	73%
Ionian Islands	45	92	15	33%	23	25%
Central Macedonia	60	100	59	98%	68	80%
Crete	96	157	96	100%	157	100%
South Aegean	62	90	44	71%	67	74%
Peloponnese	26	55	24	92%	48	87%
Central Greece	12	21	11	92%	19	90%

GEOGRAPHIC DISTRIBUTION OF LIFEGUARDS IN 13 REGIONS



NUMBER OF BEACHES WITH OBLIGATORY LIFEGUARD COVERAGE

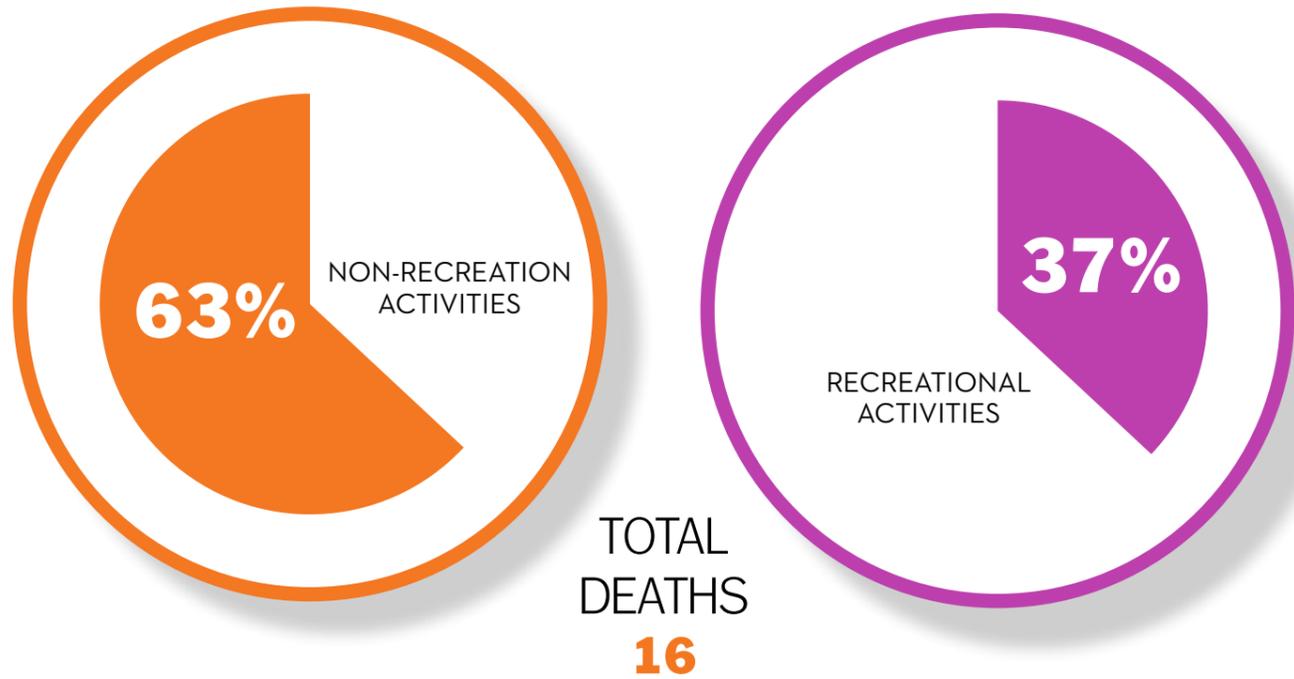




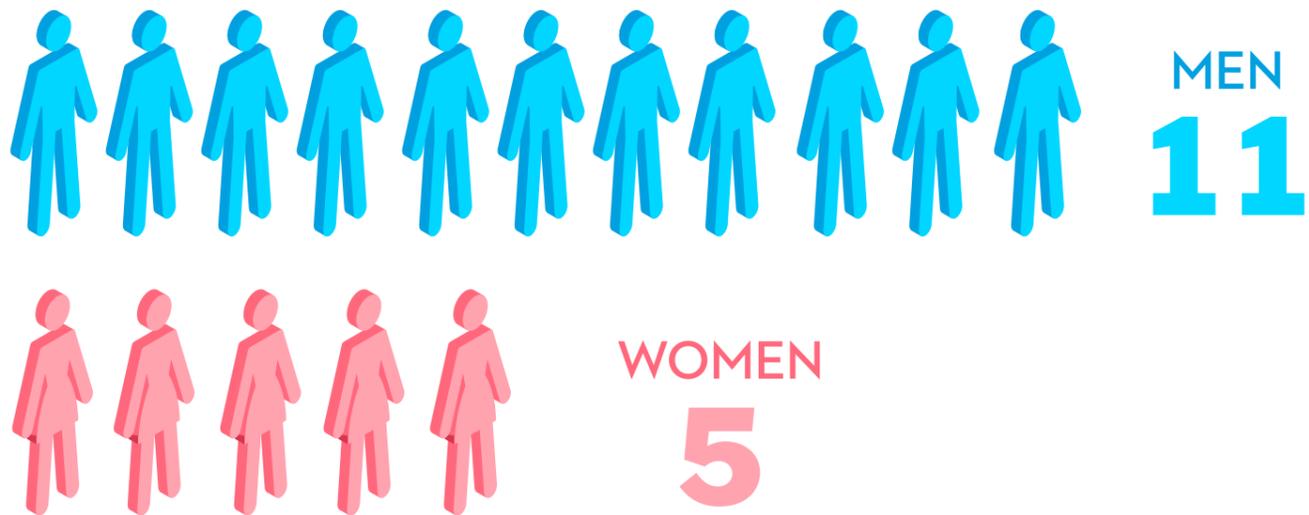
CHAPTER 4

ACCIDENTS
IN INTERNAL
WATERS

DEATHS IN INTERNAL WATERS

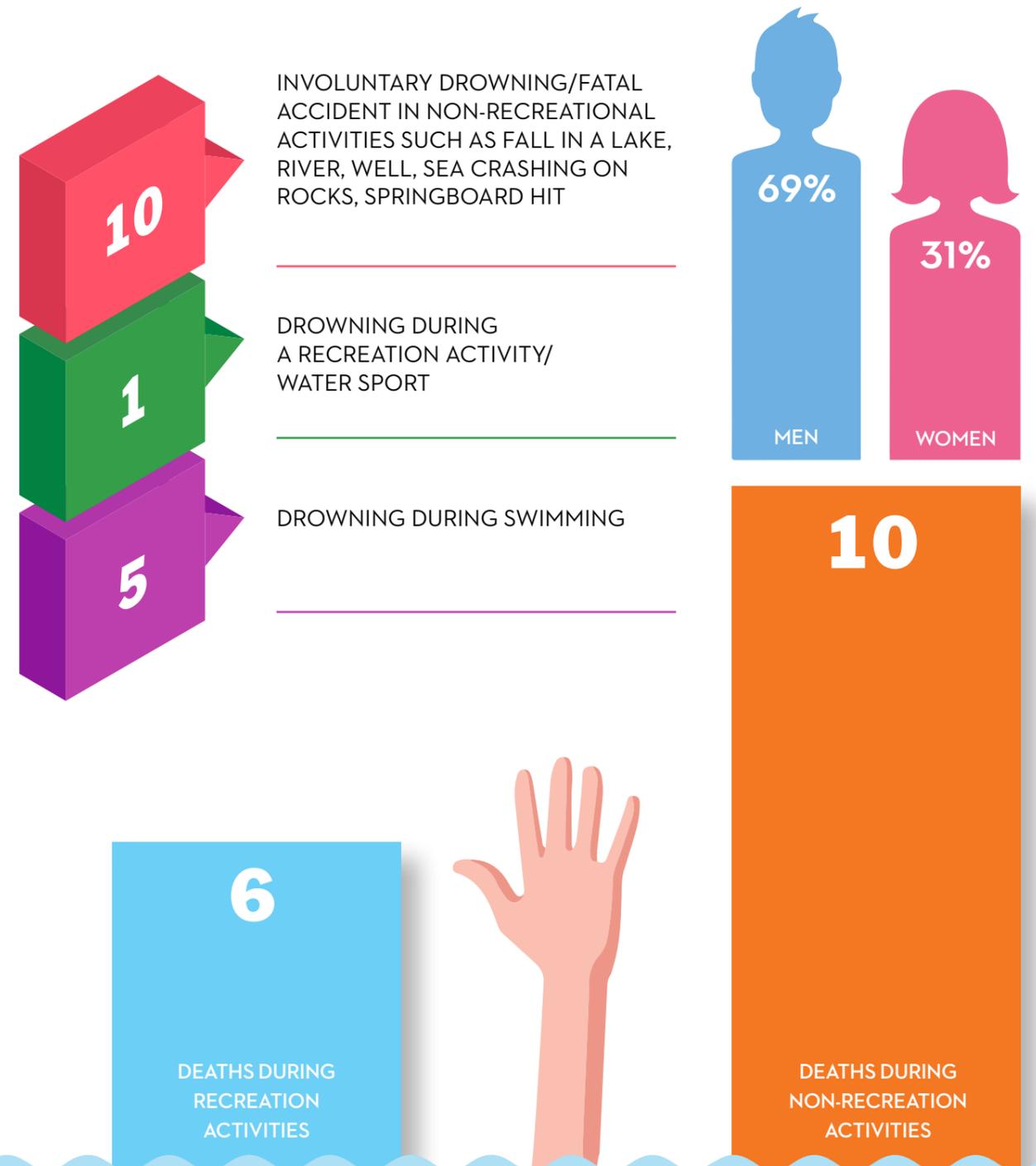


The Observatory for Accidents separates fatal accidents that take place in internal waters (such as lakes, rivers, hotel or private pools, sports facilities, water tanks, etc.) in two categories: a) Those that happen during sports or recreational activities (during swimming or other water activity, like rafting, fishing etc.) and b) those that are involuntary accidents/fatal accidents, suicides, illegal entries into the country and fatal injuries).



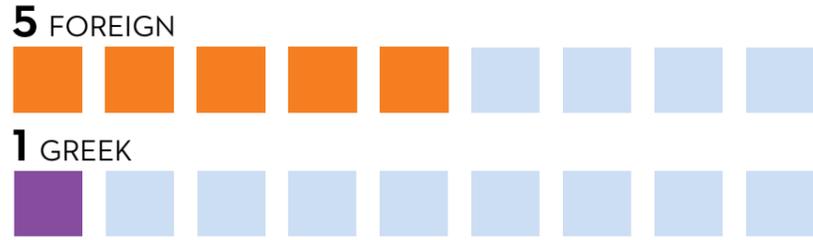
RECREATION ACTIVITY

In 2021 16 deaths were recorded in internal waters, from which 6 took place during recreation activities (during swimming and during aquatic recreation activity) and 10 in non-recreation activities. In the following chapters of this study we will analyse mostly accidents during recreation activities.



NATIONALITY

The 5 people that lost their lives in recreational activities were foreign while 1 was Greek.

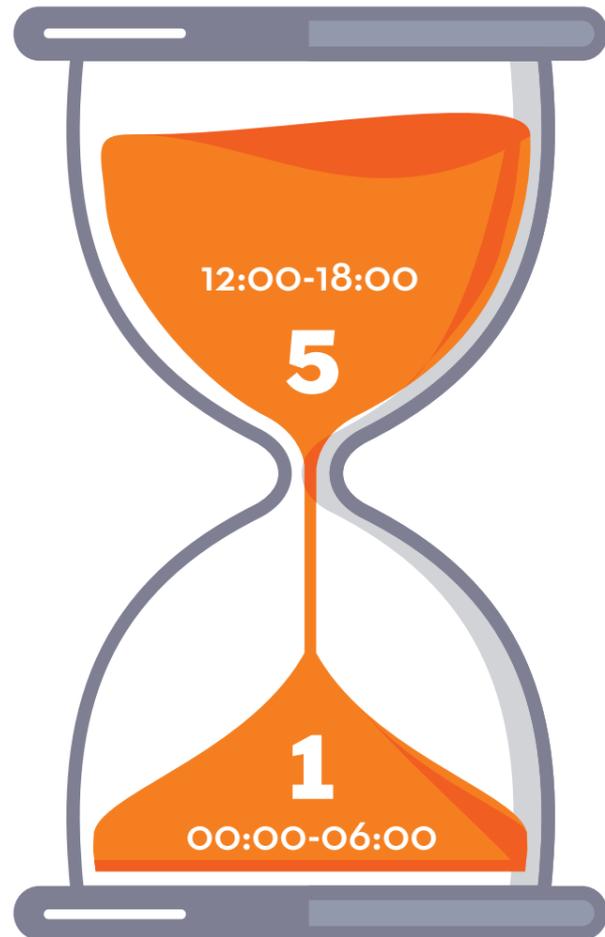


PER TIME PERIOD (MONTH)

The time period during which deaths are recorded are between May and October 2021. We had 3 deaths in July, 1 in May, 1 in June and 1 in October.

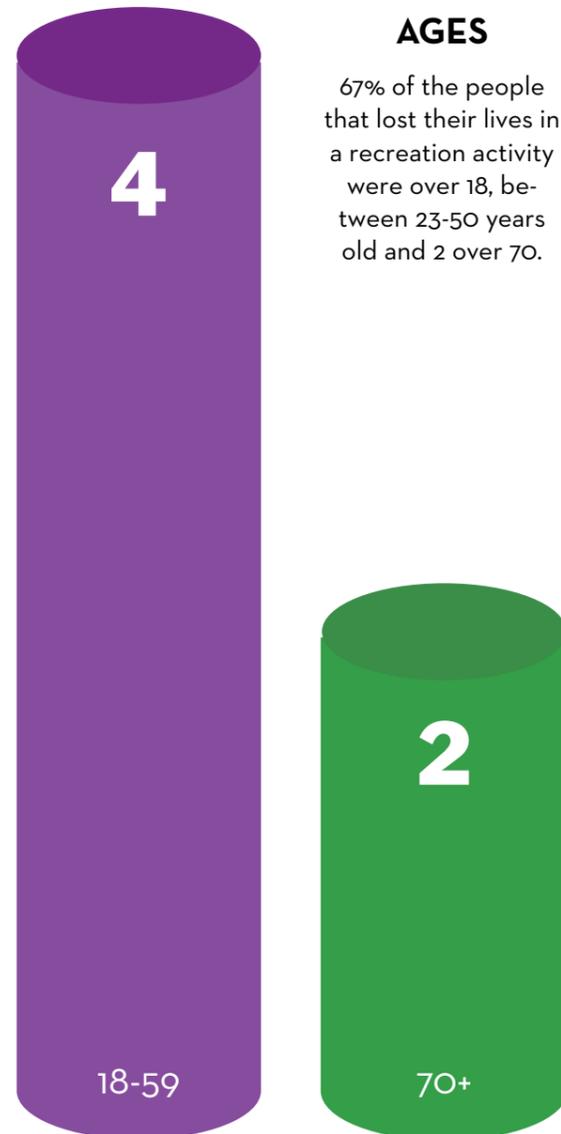
TIME PERIOD (HOURS)

5 deaths were recorded between 12:00 and 18:00 and 1 death after midnight.



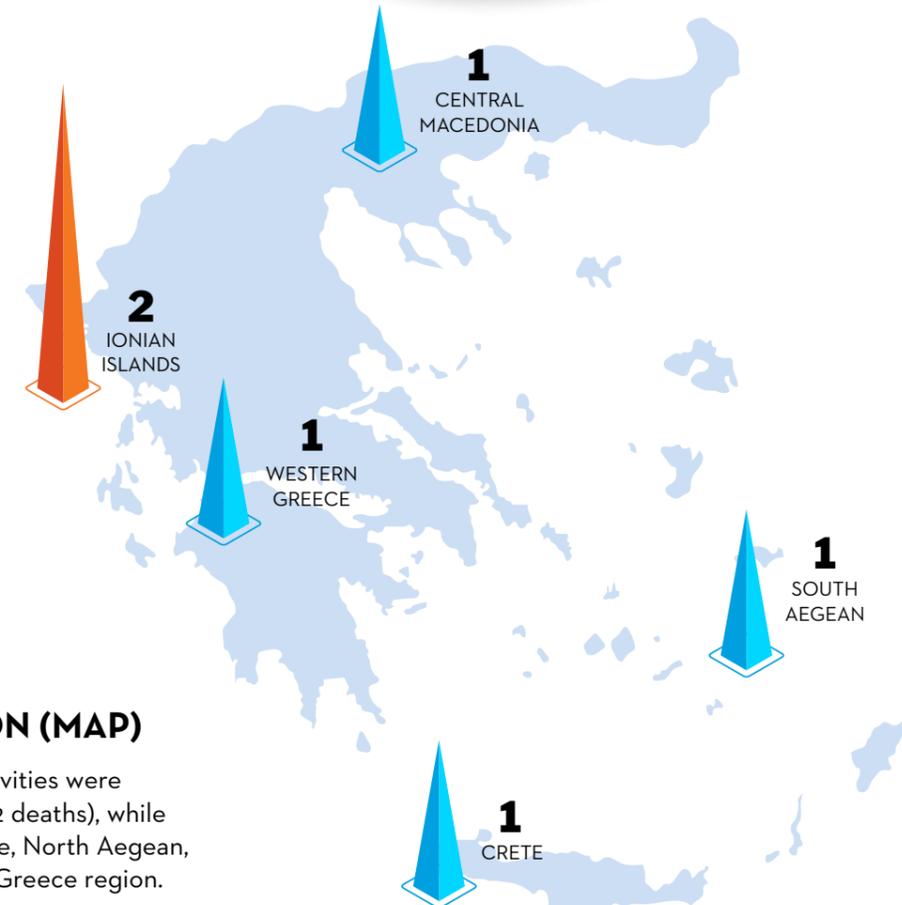
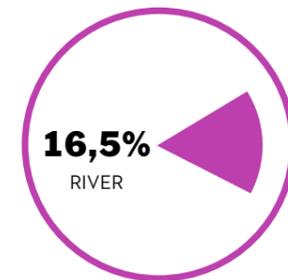
AGES

67% of the people that lost their lives in a recreation activity were over 18, between 23-50 years old and 2 over 70.



LOCATION

67% of deaths during recreation activities happened in hotel pools and the rest 33% in rivers and other locations (dam).



GEOGRAPHIC REGION (MAP)

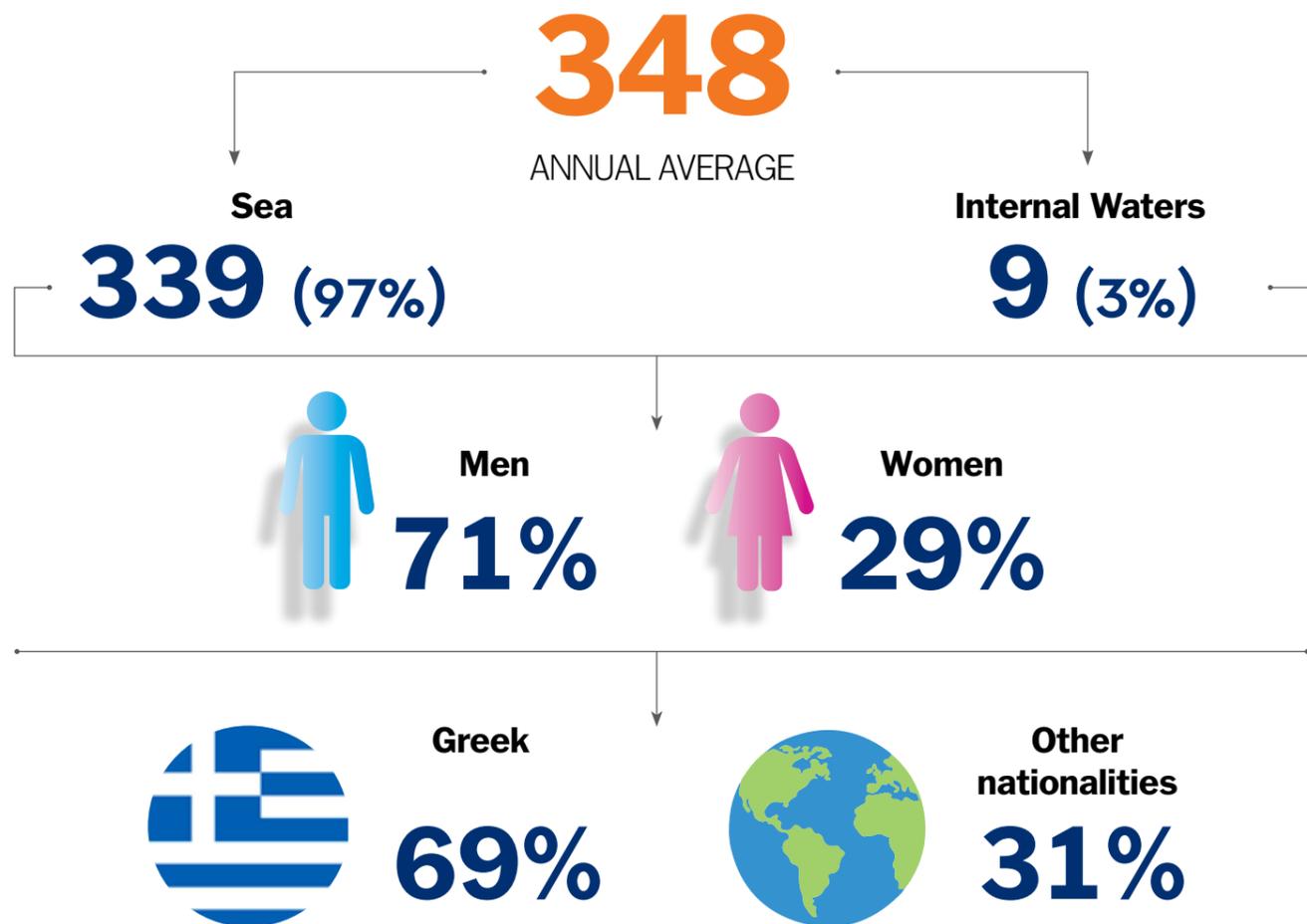
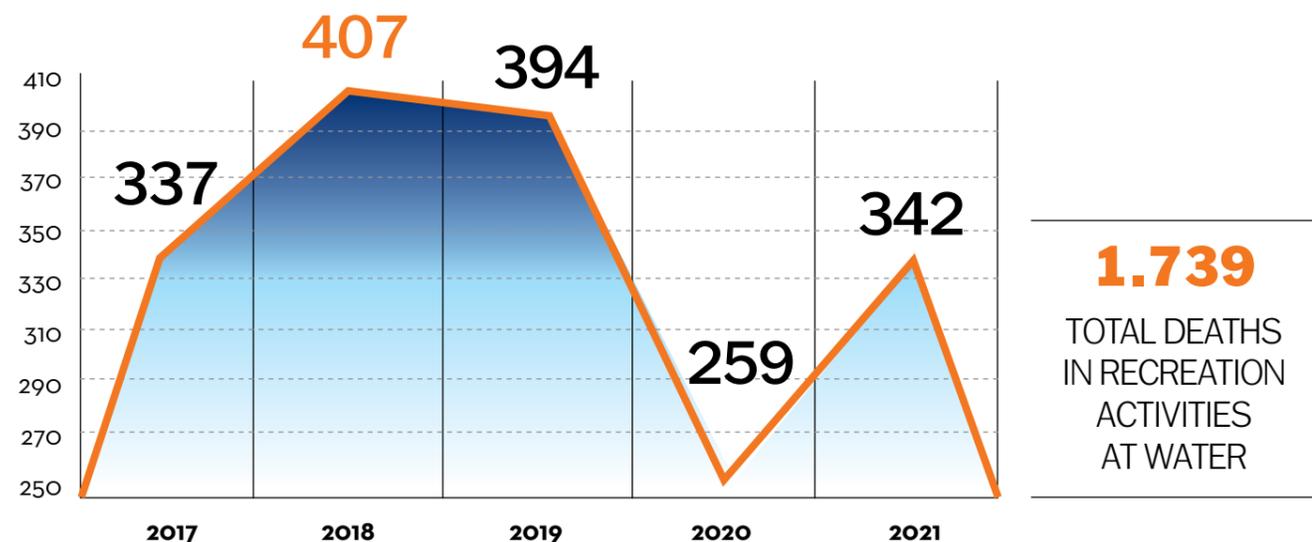
33% of deaths in recreation activities were recorded in the Ionian Islands (2 deaths), while the 67% is recorded in the Crete, North Aegean, Central Macedonia & Western Greece region.



UNIT B

ANALYSIS OF ACCIDENTS DURING RECREATION ACTIVITIES 2017- 2021

In the period 2017-2021 the average number of fatal accidents during recreational activities at water was 348.

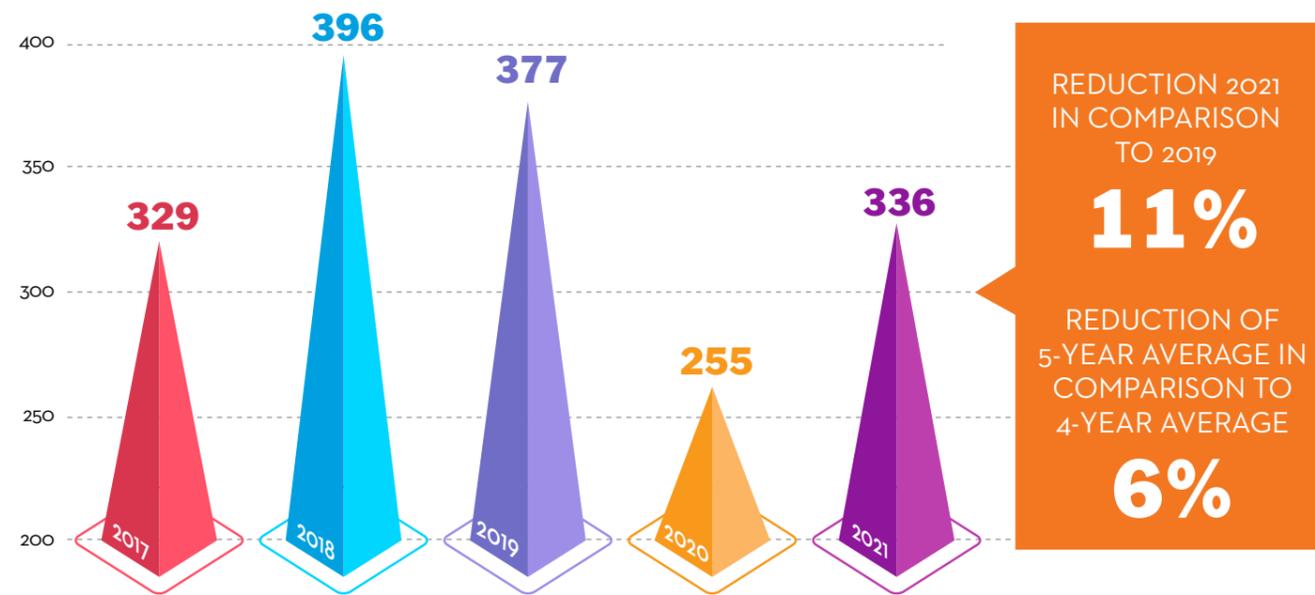


CHAPTER 5

ACCIDENTS
AT SEA
RECREATION
ACTIVITIES
2017- 2021

FATAL ACCIDENTS

In 2021 an important reduction of the total number of fatal accidents was recorded for the first time, something that can be attributed to the pandemic and the much smaller number of visitors in comparison to previous years. Therefore, since 2021 is not fair to be compared to 2020, on this chapter, 2020 will be excluded from the total. Instead the average number of the 5-year-period and the average number of the 4-year-period (2017-2018-2019-2021) will be presented. For the 4 year period there are 359 annual deaths on average at sea.

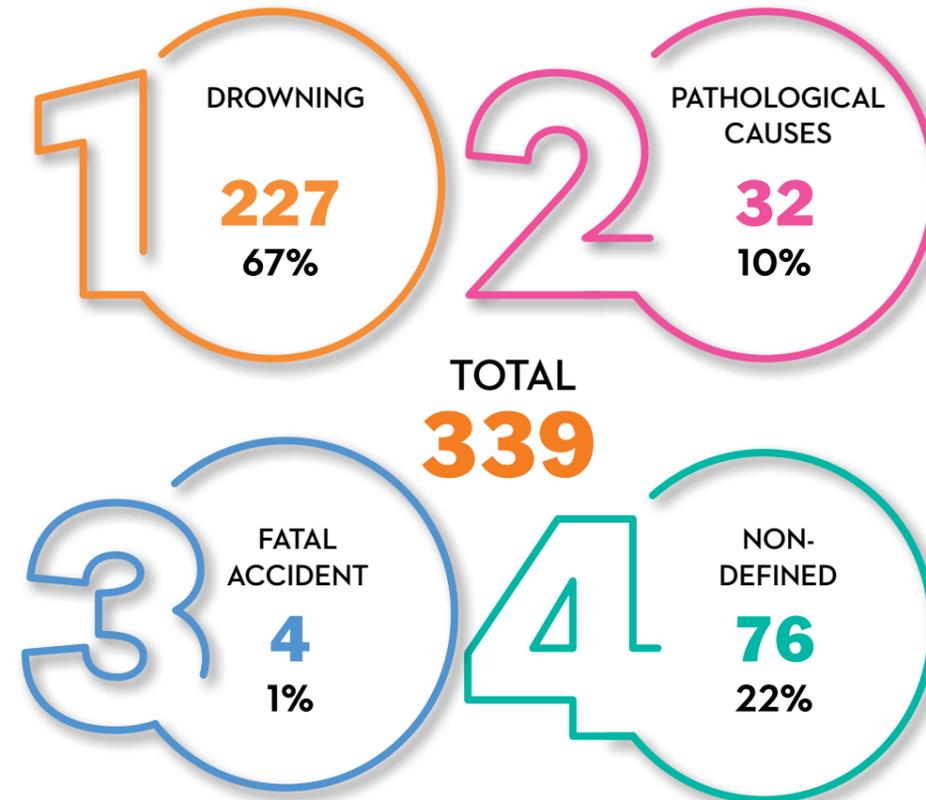


339
5-YEAR AVERAGE

1693
TOTAL DEATHS
IN 5 YEARS



TYPE OF FATAL ACCIDENT

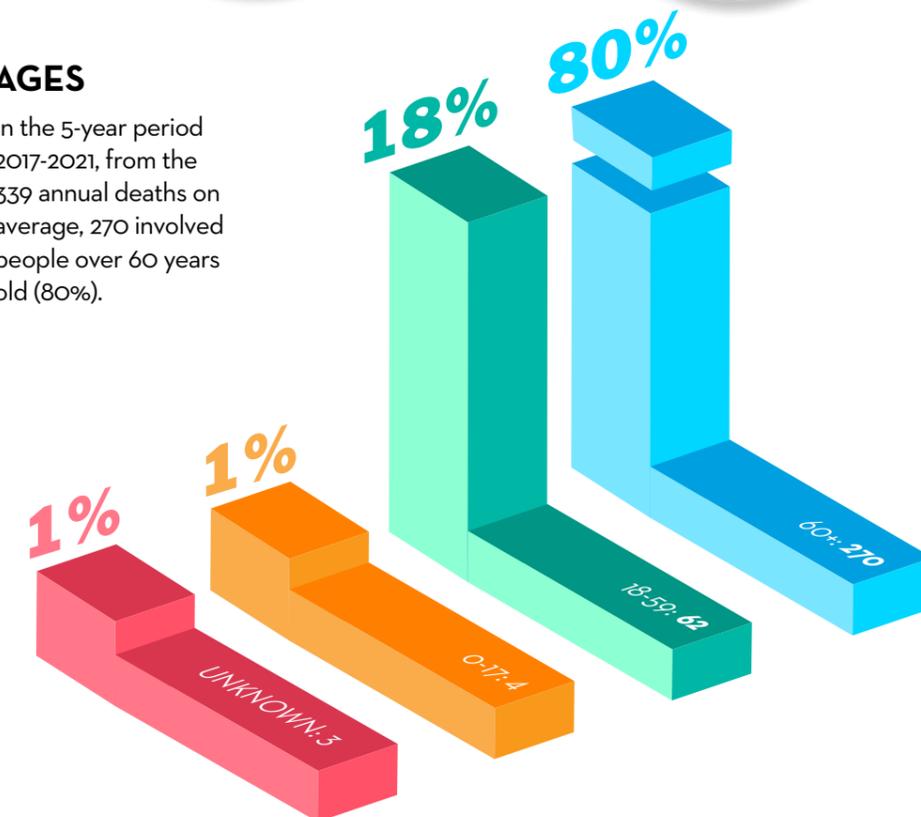


In the period 2017-2021, from the 339 deaths that take place annually on average, 227 are due to drowning (67%), 32 to pathological causes (10%), 4 to fatal accidents (1%) and 76 to non-defined causes (22%)

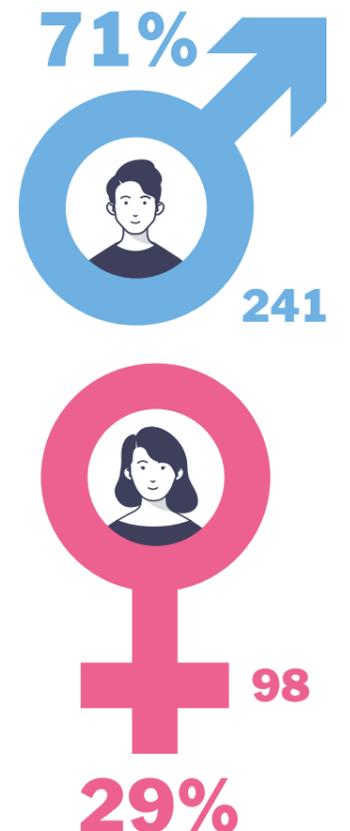
7 OUT OF 10
ON AVERAGE
LOSE
THEIR LIVES
AT SEA FROM
DROWNING

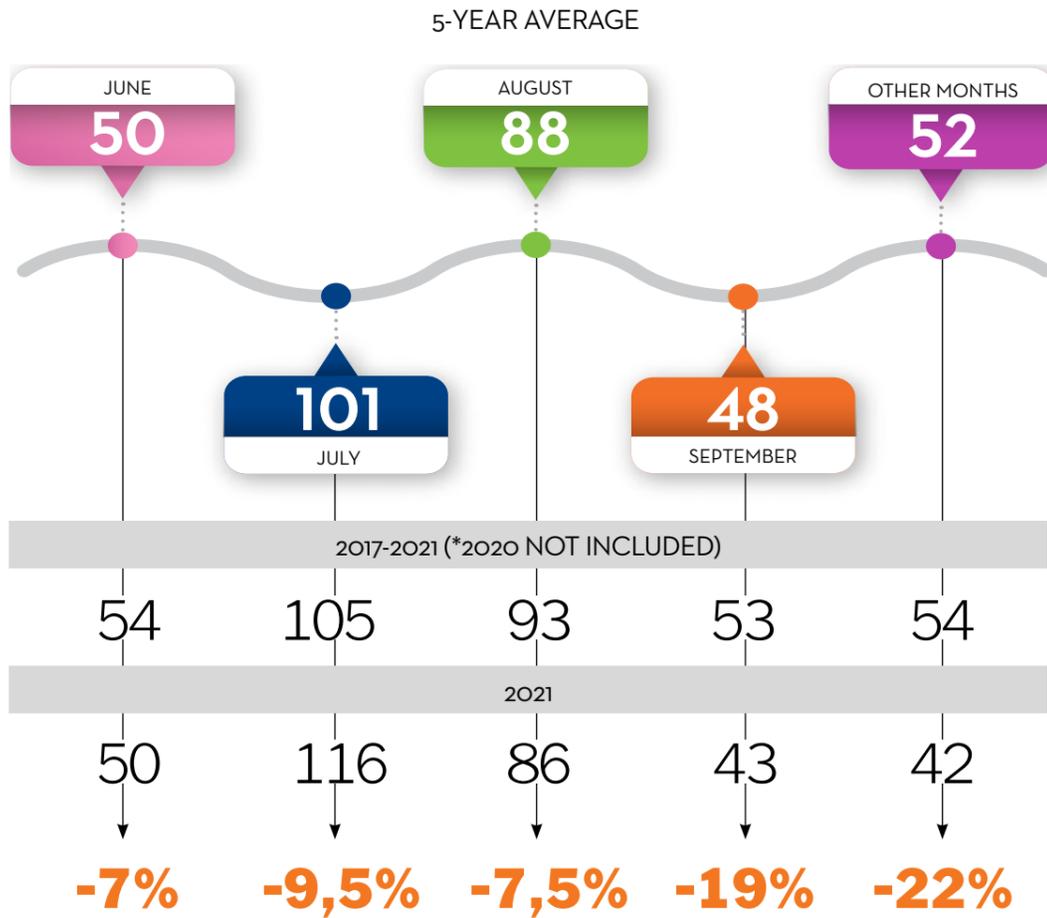
AGES

In the 5-year period 2017-2021, from the 339 annual deaths on average, 270 involved people over 60 years old (80%).



SEX





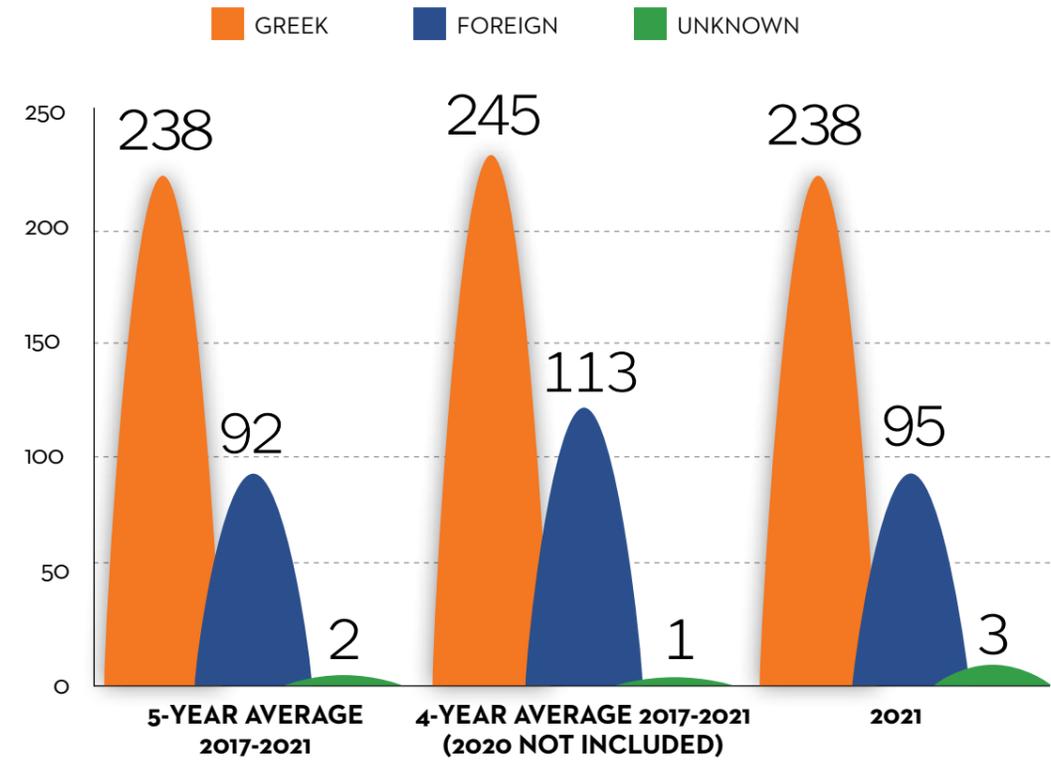
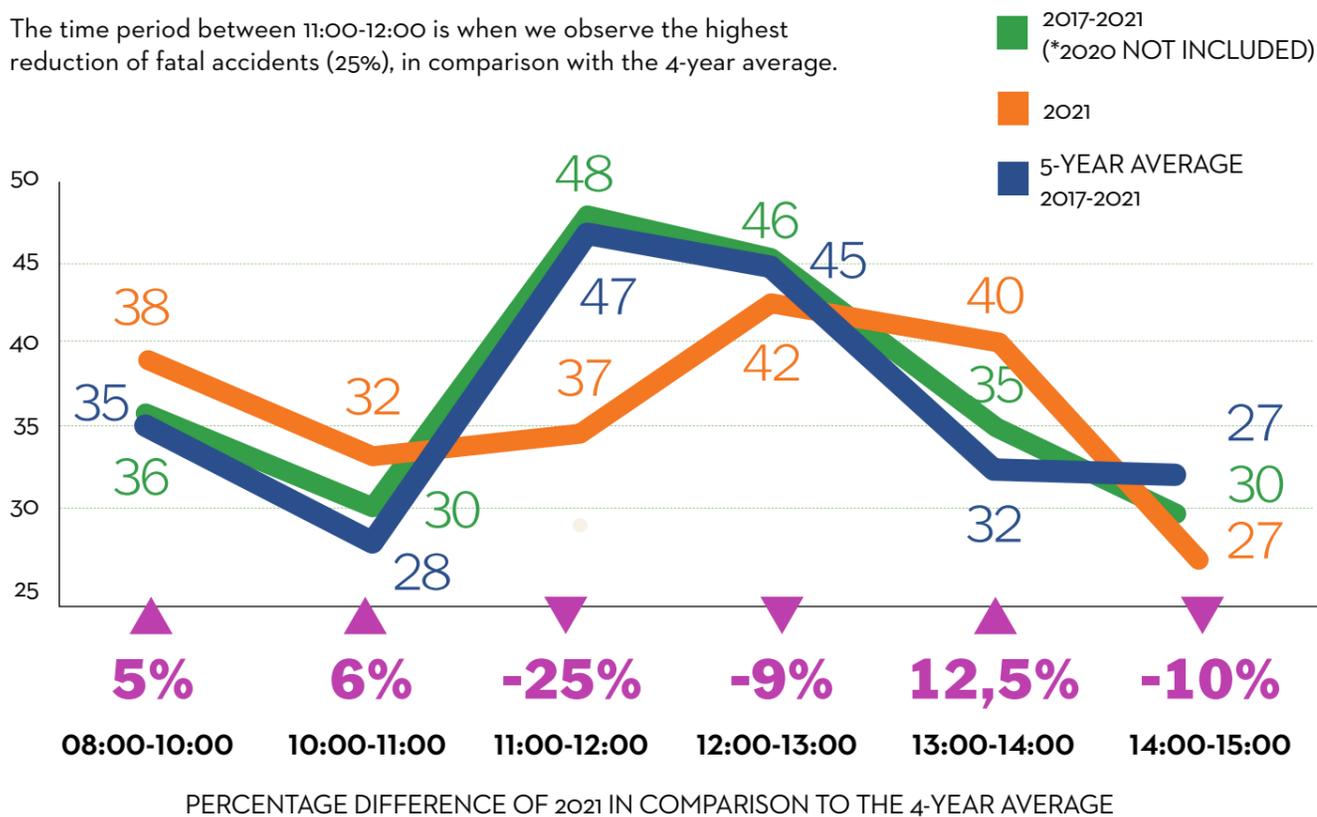
TIME PERIOD (MONTH)

Comparing 2021 to the 4-year average (excluding 2020) The biggest reductions in fatal accidents were recorded in June and September 2020, 42% and 53% respectively, as these were months of zero or very low tourist flows to our country due to the lockdown measures. However, it is worth noting the recorded reduction in August, at 31,2%, as this was a month where both Greek and foreign national visitors chose to swim in the Greek seas.

2021 IN COMPARISON TO 4-YEAR AVERAGE

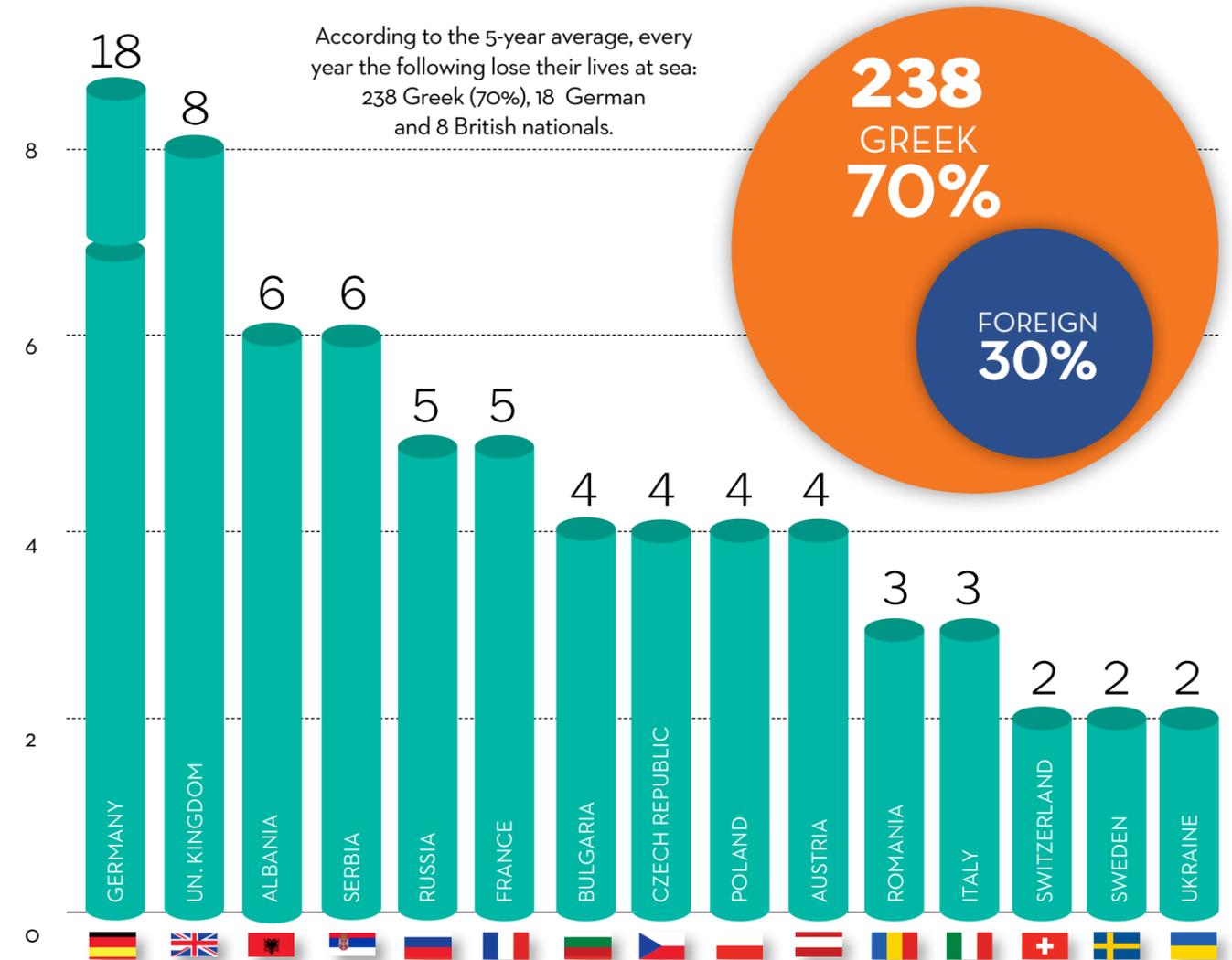
TIME PERIOD (HOURS)

The time period between 11:00-12:00 is when we observe the highest reduction of fatal accidents (25%), in comparison with the 4-year average.



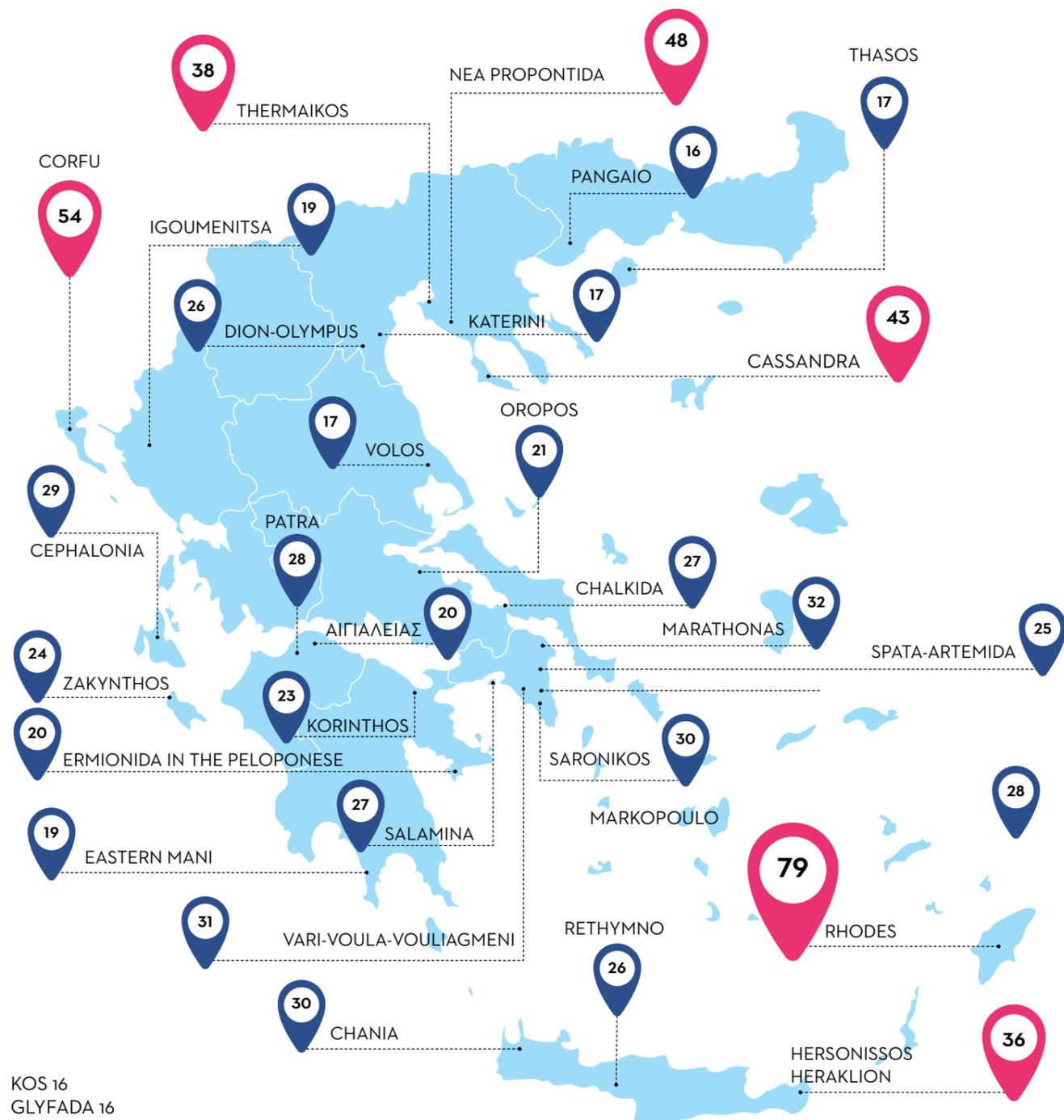
NATIONALITY

In 2021, there was a reduction of fatal accidents among foreign nationals by 16% and among Greek nationals by 3% in comparison to the 4-year average 2017-2021 (excluding of 2020).



MUNICIPALITIES

In these five years, the municipalities with the most deaths were the Municipality of Rhodes with 79 in total, the Municipality of Corfu with 54, the Municipality of Nea Propontida with 48 and the Municipality of Cassandra with 43.



- KOS 16
- GLYFADA 16
- CHIOS 16
- MEGARA 15
- PREVEZA 15
- ALEXANDROUPOLI 14
- NAFPLIO 14
- ALIMOS 14
- KARYSTOS 14
- KALAMATA 13
- SITHONIA 13
- LESVOS 13
- LOUTRAKI 13
- VOLVI 13
- AGINA: 13
- PYLOS NESTORA 12
- NAFPAKTIA: 12
- PYRGOS 12
- APOKORONOS CRETE: 11
- STILIDA 11
- PALAIIO FALIRO 11
- ALMYROS 11
- PEIRAIA 11
- THESSALONIKI 10
- SOUTH PILION 10
- TANAGRA 10
- LOKROI 10
- AGIA 10
- KAVALA 10
- AMFILOXIA 10
- THIRA 10

BEACHES

The table presents the majority of fatal accidents at beaches from 2017-2021 but also the obligatory lifeguard coverage and the actual lifeguard coverage.

MUNICIPALITY - BEACH	2021			2020			2019			2018			2017		
	F	O	C	F	O	C	F	O	C	F	O	C	F	O	C
Nea Propontida, N.Kallicrateia	2	1	1	1	1	1	5	1	1	4	1	1	1	1	1
Rethymno, Trethymno	4	8	8	0	5	5	2	5	6	4	6	6	3	4	4
Dios-Olympos, Akti N.Poron	4	3	3	0	3	3	2	3	0	2	4	0	4	3	3
Alimos A' Alipedo Alimos	4	1	1	1	1	1	3	1	1	0	1	1	2	1	1
Tanagra Plaka Dilesi	2	2	2	3	0	0	1	0	0	2	0	0	1	2	2
Katerini, Akti Paralias Neo	1	8	1	0	8	3	2	8	3	3	8	3	2	5	2
Patra, Plaz Agia	1	2	2	1	2	2	4	2	2	1	1	1	1	1	1
Rhodes, Faliraki Kathara	1	0	0	1	0	0	0	0	0	4	0	0	1	0	0
Vari-Voula-Vouliagmeni, Varkiza beach Varkiza with free access	0	2	2	1	0	0	2	0	0	1	0	0	3	0	0
Chersonisos Crete, Central beach Malia	0	1	1	0	1	1	2	1	2	2	2	2	3	5	5
Thermaikos, Palioura Epanomis	1	1	1	0	1	1	2	1	1	3	0	0	1	0	0
Igoumenitra, Drepano	1	4	4	1	4	4	1	4	4	3	4	4	1	3	2
Kalamata, East beach Kalamata	1	6	6	2	6	6	2	6	6	1	6	4	1	4	4
Markopoulos, Fourithi	1	1	1	3	1	1	1	0	0	2	0	0	0	0	0
Katerini, Akti Olympiakis aktis neo	1	7	1	1	7	3	3	7	3	1	5	2	1	3	1
Apokoronou, Georgioupoli	0	13	13	0	9	1	3	9	1	1	10	1	3	8	1
Markopoulos, Agios Spyridon	0	1	1	1	1	1	0	1	0	3	0	0	2	0	0
Thermaikos, Agia Triada	0	2	2	0	1	1	2	1	1	3	1	1	1	1	1
Delfoi, Trokantero	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
Kassandra, N.Skionis	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0
Kassandra, N.Skionis	1	1	1	0	1	1	3	1	1	1	1	1	1	1	1
Rhodes, Prasoni	1	0	0	0	0	0	0	0	0	1	0	0	4	0	0
Zante, Tsilivi	1	4	0	0	3	0	2	3	0	1	3	1	2	2	1
Saronikos, Agios Nikolaos Anavyssos	1	0	0	1	0	0	1	0	0	2	0	0	1	0	0
Nea Propontida, N. Flogita	0	1	1	1	1	1	0	1	1	2	1	1	2	1	1
Marathonas, From Makaria Pigi to Evropi Str.	1	5	5	2	1	1	1	1	1	1	1	1	1	0	0
Thermaikos, Nea Michaniona beach	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0
Vari-Voula Vouliagmeni, Vouligmeni beach with free access	0	1	1	0	0	0	3	0	0	1	0	0	1	0	0
Paggaios, Ofryniou Peiratis	0	1	1	1	1	1	1	1	2	1	2	0	2	1	1
Oropos, Markopoulos Oropos	0	3	2	1	2	0	2	2	0	1	2	0	1	2	2
Velou- Vochas, Vrachati	1	0	0	1	1	1	0	1	1	2	1	1	1	0	0
Nea Propontida, Dionysos	2	1	1	1	1	1	0	1	1	2	1	1	0	1	1
Chersonisos, Western side of Stalida beach	1	1	1	0	1	1	2	1	4	0	4	4	2	5	5
Chalkida, Lefkanti	1	3	3	0	2	2	3	2	2	0	2	2	1	2	2
Palio Faliro, Beach from Agalma position up the end of Limanaki Alieon beach, P.Faliro	2	1	1	3	0	0	0	0	0	0	0	0	0	0	0

F: Fatal accident O: Obligatory lifeguard coverage C: Lifeguard coverage per year

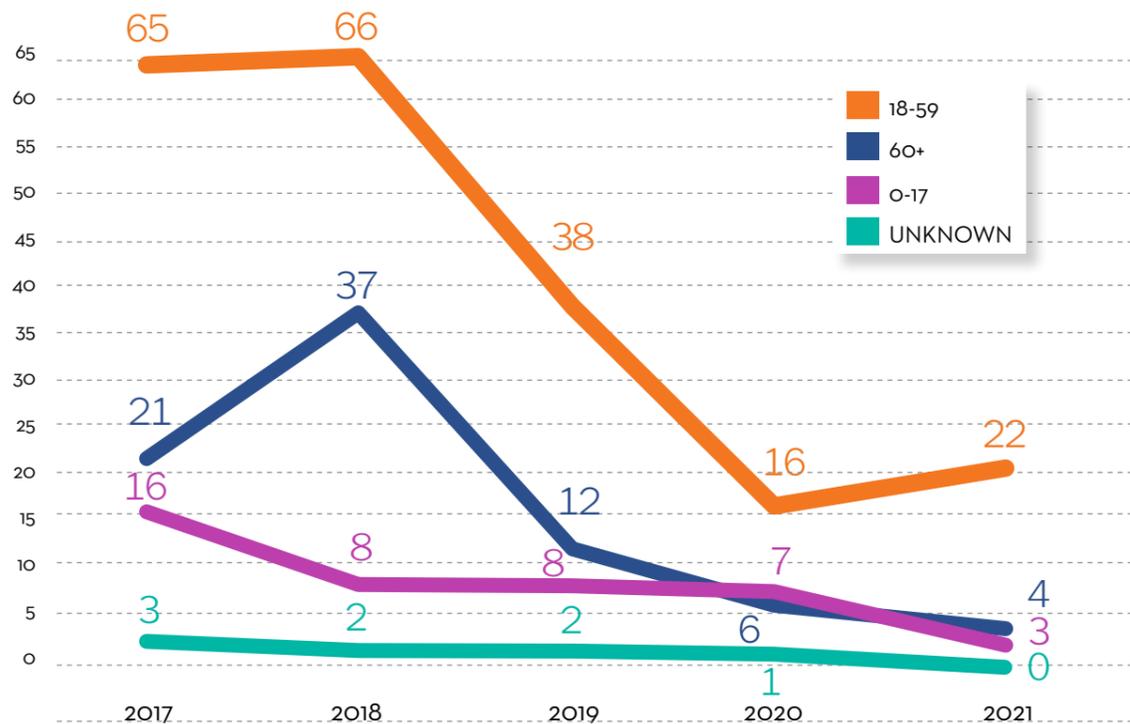
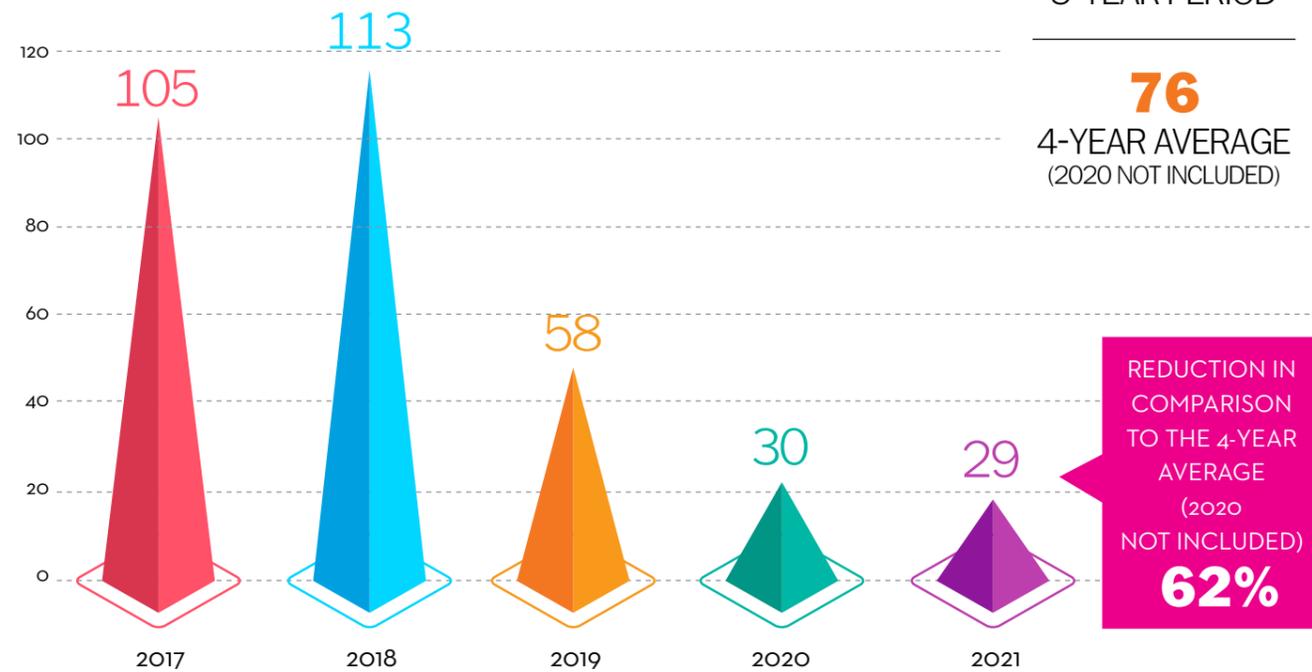
INJURIES AT SEA

During the 5-year period, the total number of injuries was 335 while the average annual number of injuries was 67. In 2021 the total number of injuries was 29 in comparison to the 4-year average (2020 is excluded) (reduction of 62% and reduction of 57% in comparison to the 5-year average). Out of the 67 injuries for the 5-year average, 70% (47) were men and 30% (20) were women.

67
5-YEAR AVERAGE

335
TOTAL
INJURIES IN THE
5-YEAR PERIOD

76
4-YEAR AVERAGE
(2020 NOT INCLUDED)



AGES

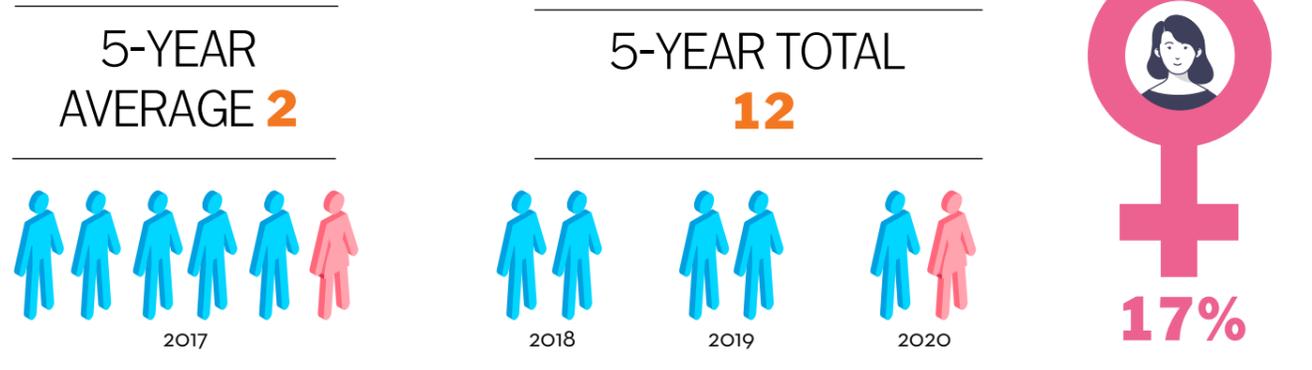
The average number of injuries for the 5-year period 2017- 2021 shows that 62% (41) of those injured were aged 18-59, 23% (16) were people over 60 and 13% (9) were minors.

CHAPTER 6

ACCIDENTS DURING SEA SPORTS AND RECREATION ACTIVITIES 2017- 2021

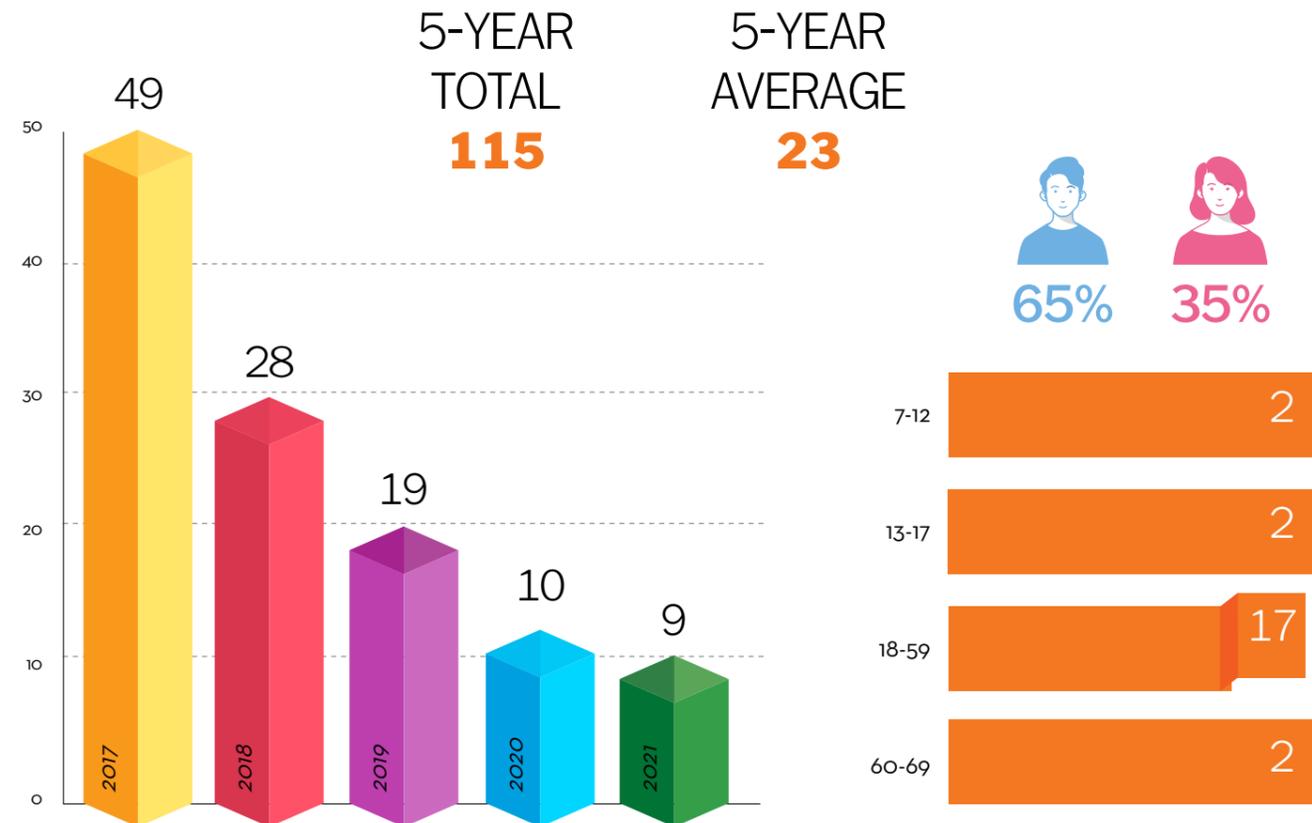
SEA RECREATIONS

For the 5-year average period, 2 fatal accidents during sea sports are recorded. Between 2017 and 2021 we had 12 deaths in total, from which 10 involved men and 2 women, while in 2021 there was NO fatal accident in water sports.

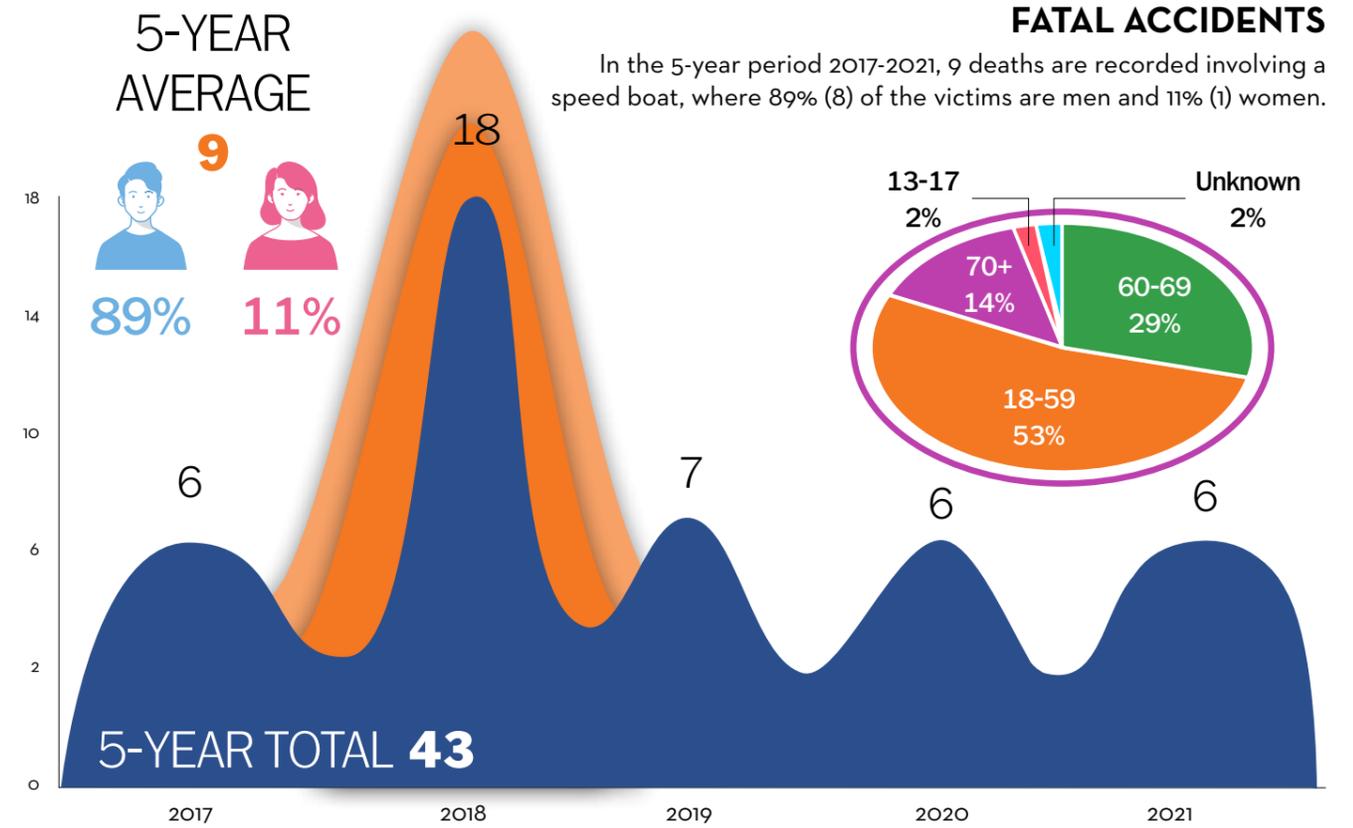


INJURIES

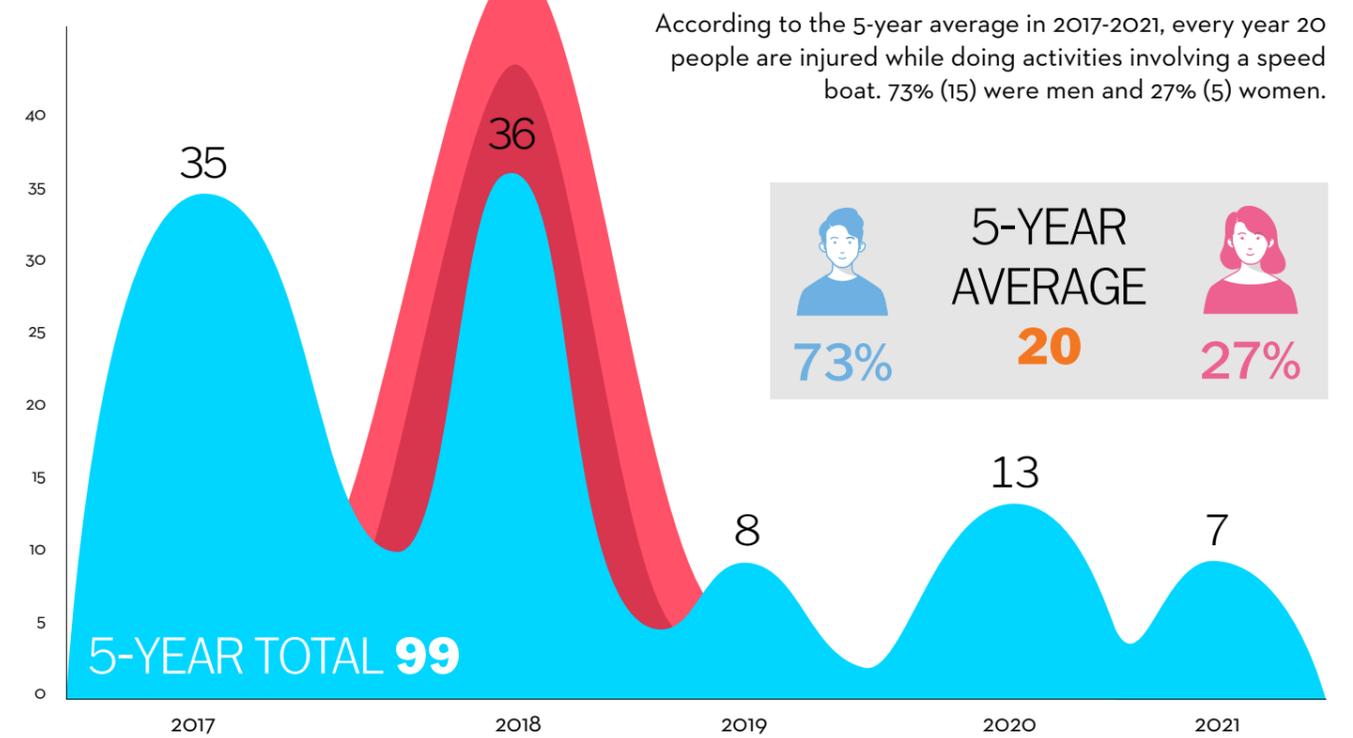
According to the 5-year average 2017-2021, 23 injuries are recorded every year involving sea sports and recreations. From these, 65% (15) involved men and 35% (8) women.



INVOLVING A SPEED BOAT



INJURIES

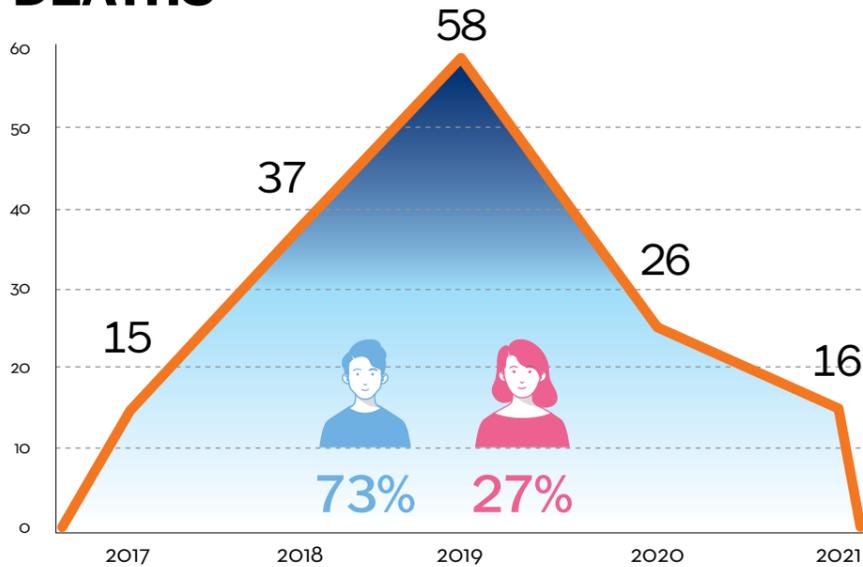




CHAPTER 7

ACCIDENTS
IN INTERNAL
WATERS
2017- 2021

DEATHS



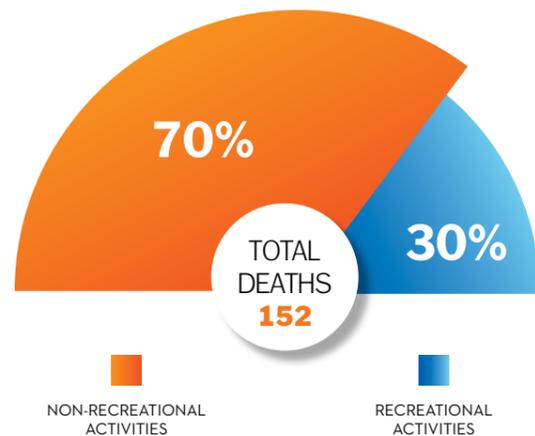
In the 5-year period 2017-2021, 30 fatal accidents were recorded, where 73% of the victims were men (22 in total on average) and the rest 27% (8 in total on average) were women.

152
5-YEAR TOTAL
30
5-YEAR AVERAGE



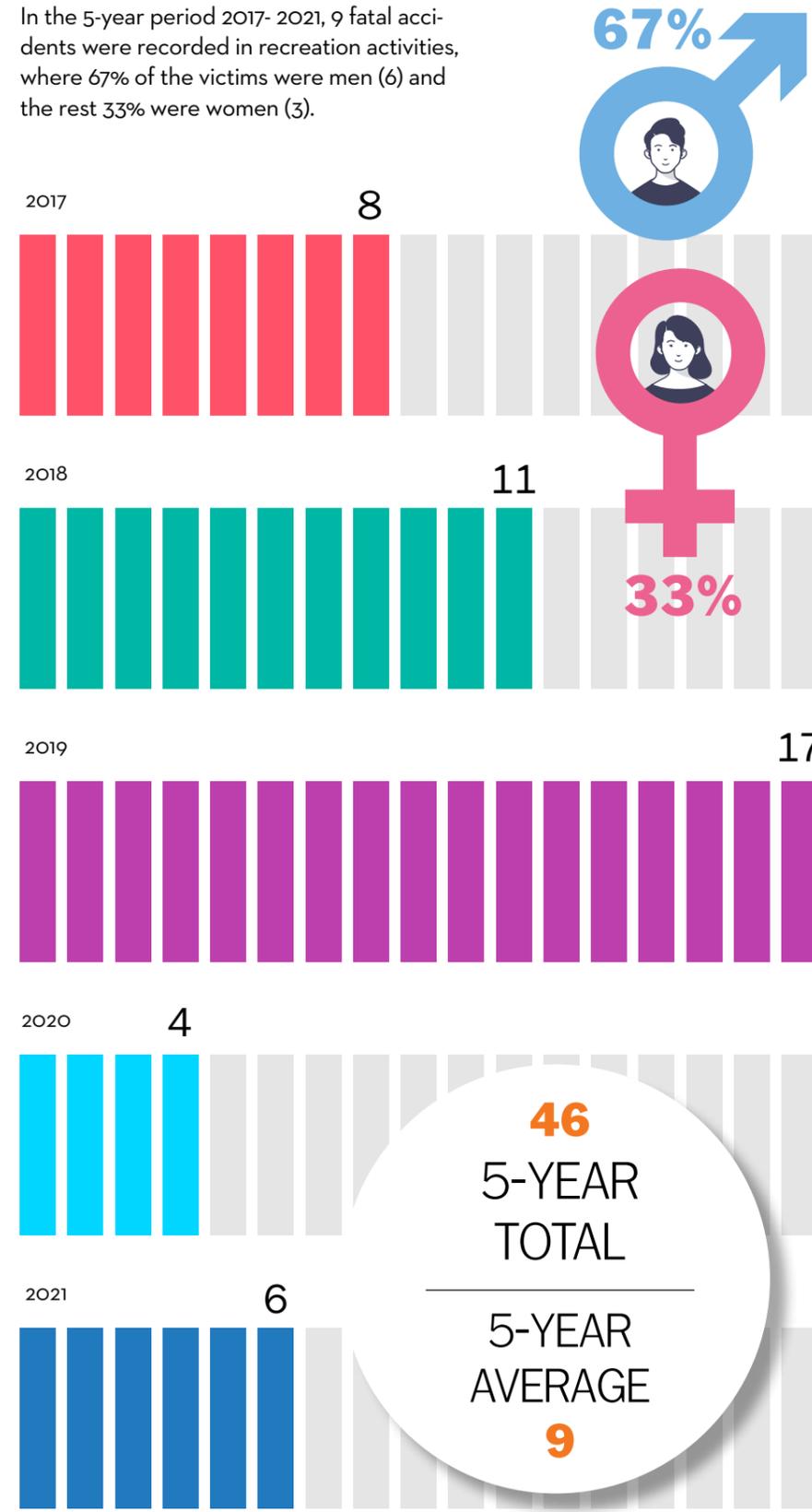
TYPE OF ACCIDENT

Of the 152 fatal accidents that took place in the 5-year period 2017-2021 in internal waters, 34% on average (10) were due to involuntary drowning/fatal injury in non-recreational activity such as fall in a lake, river, sea-crashing on rocks, sprin board hit etc, the 20% (6) due to drowning while swimming, the 18% due to drowning while attempting to enter the country illegally and due to suicide respectively, and 10% due to drowning while doing some recreational activity.



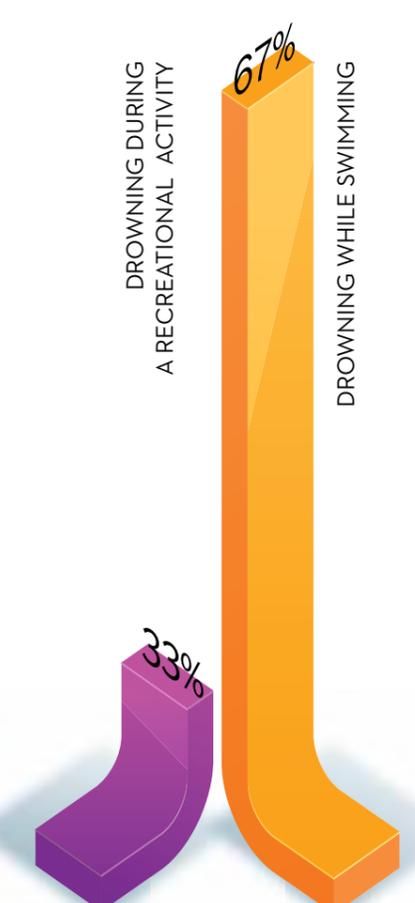
DEATHS IN RECREATION ACTIVITIES

In the 5-year period 2017- 2021, 9 fatal accidents were recorded in recreation activities, where 67% of the victims were men (6) and the rest 33% were women (3).



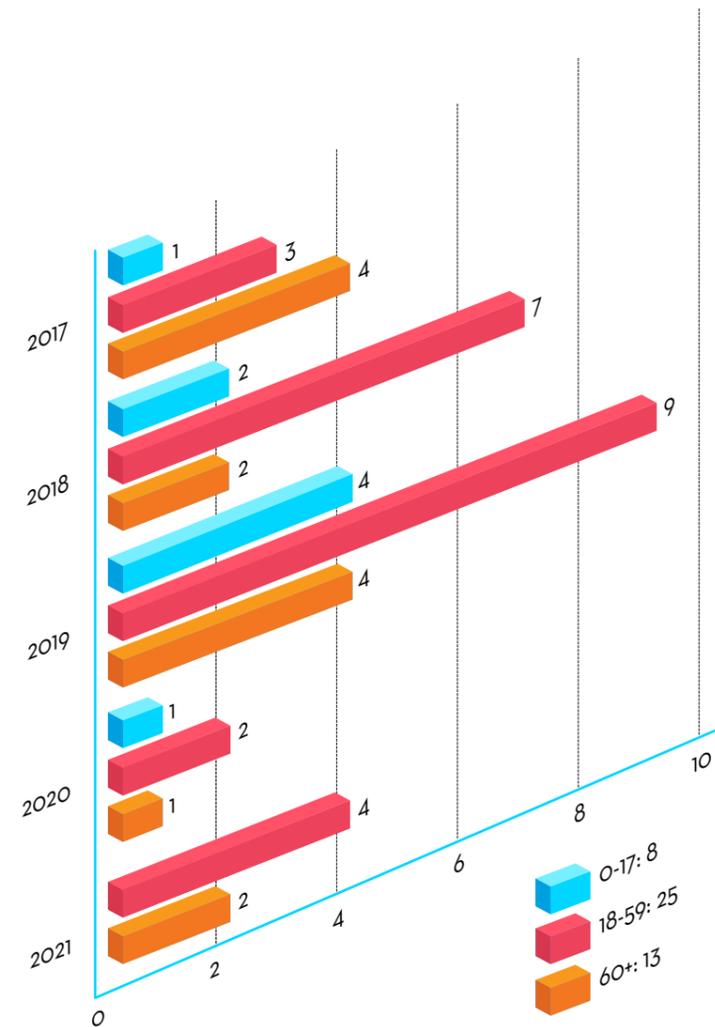
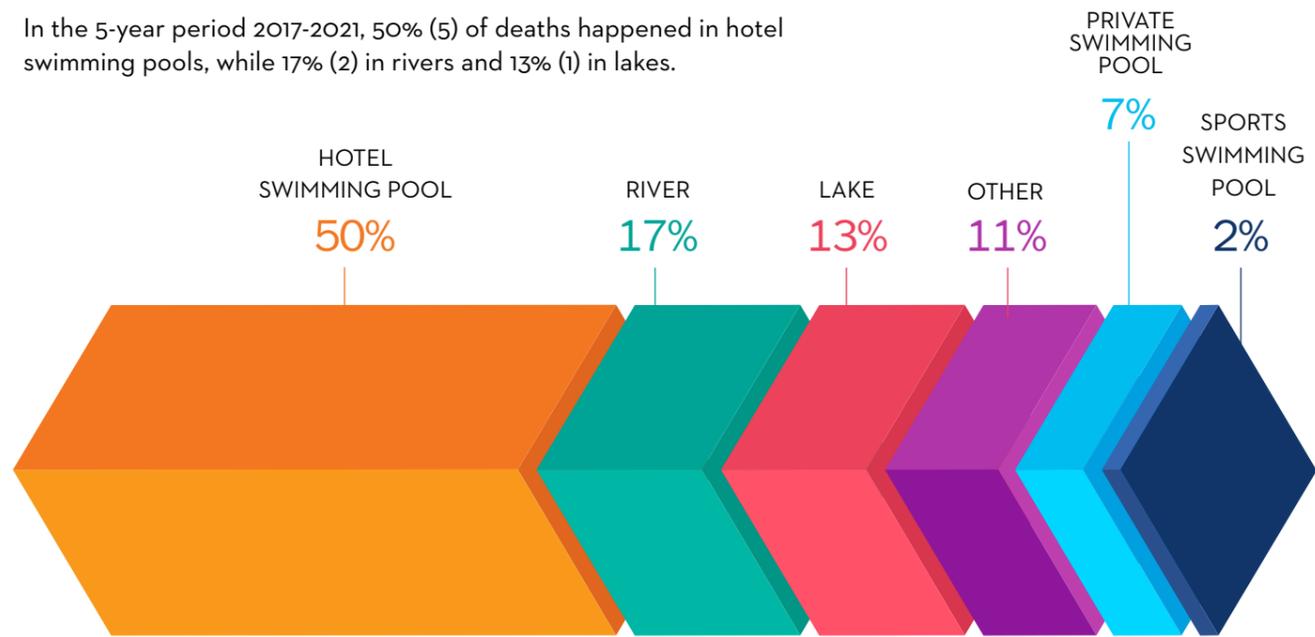
TYPE OF FATAL ACCIDENT DURING A RECREATIONAL ACTIVITY

Out of a total of 46 fatal accidents that took place in internal waters during recreational activities, 67% (31) were drownings of swimmers and 33% (15) were a result of fatal injuries during a recreational/sport activity (fishing, rafting etc). (In the following units of this study we will only analyse data on recreational activities).



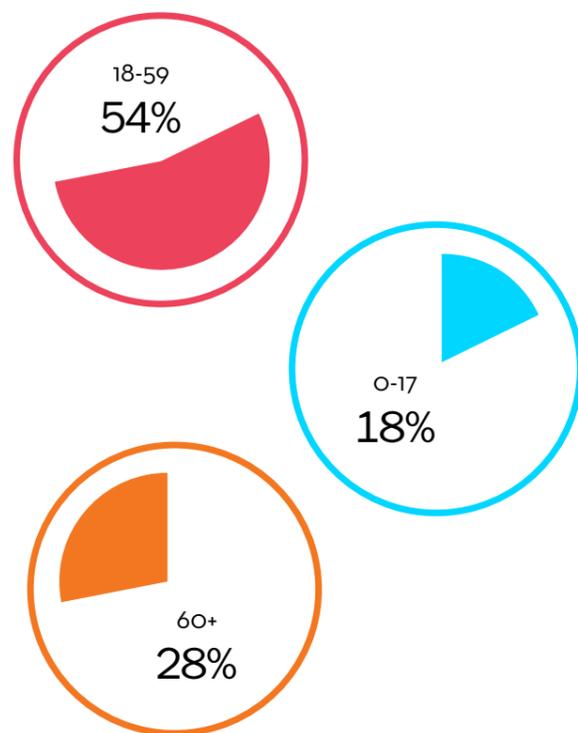
LOCATION

In the 5-year period 2017-2021, 50% (5) of deaths happened in hotel swimming pools, while 17% (2) in rivers and 13% (1) in lakes.



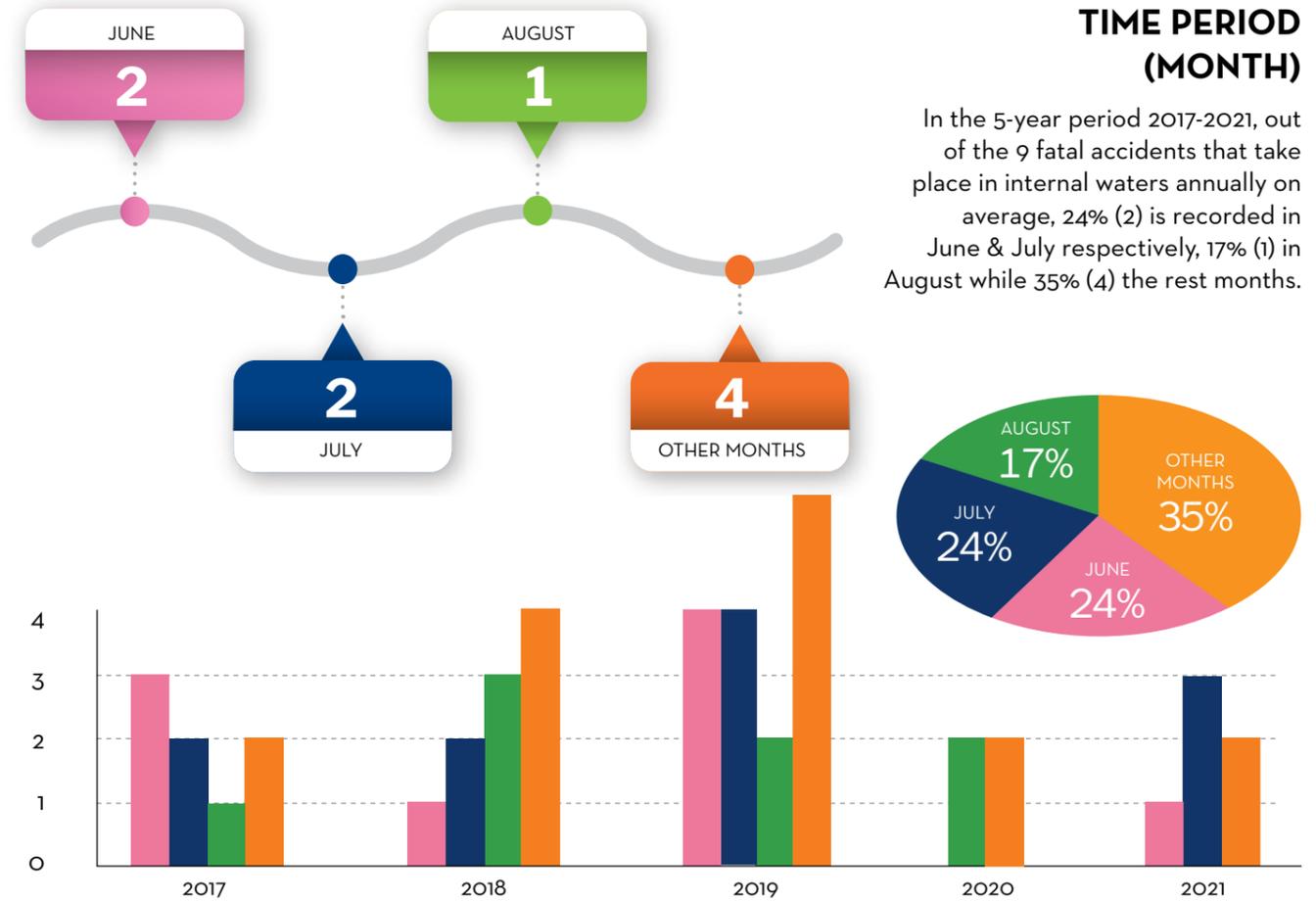
AGES

Out of the 9 fatal accidents that take place on average every year in internal waters, 54% of the victims are aged 18-59 (5), 28% (3) are people over 60 and 18% (2) are minors.

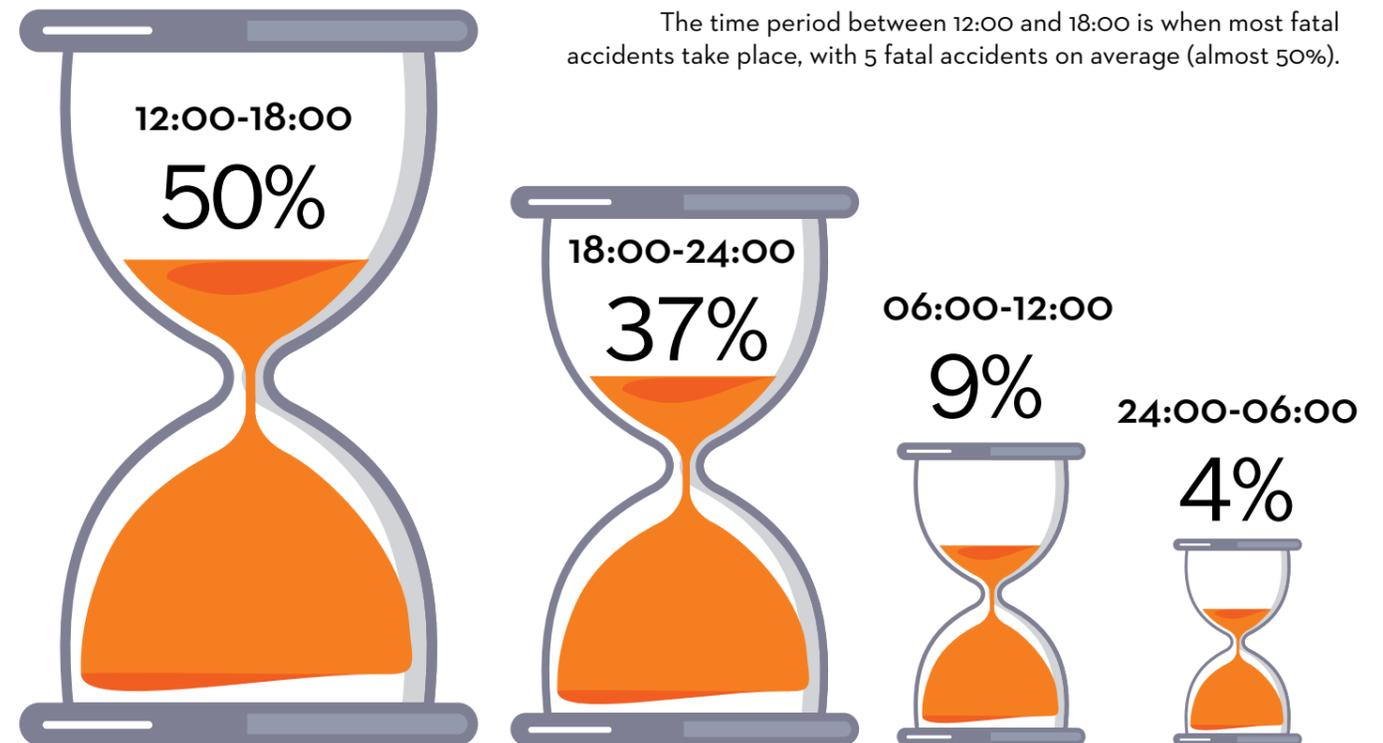


TIME PERIOD (MONTH)

In the 5-year period 2017-2021, out of the 9 fatal accidents that take place in internal waters annually on average, 24% (2) is recorded in June & July respectively, 17% (1) in August while 35% (4) the rest months.

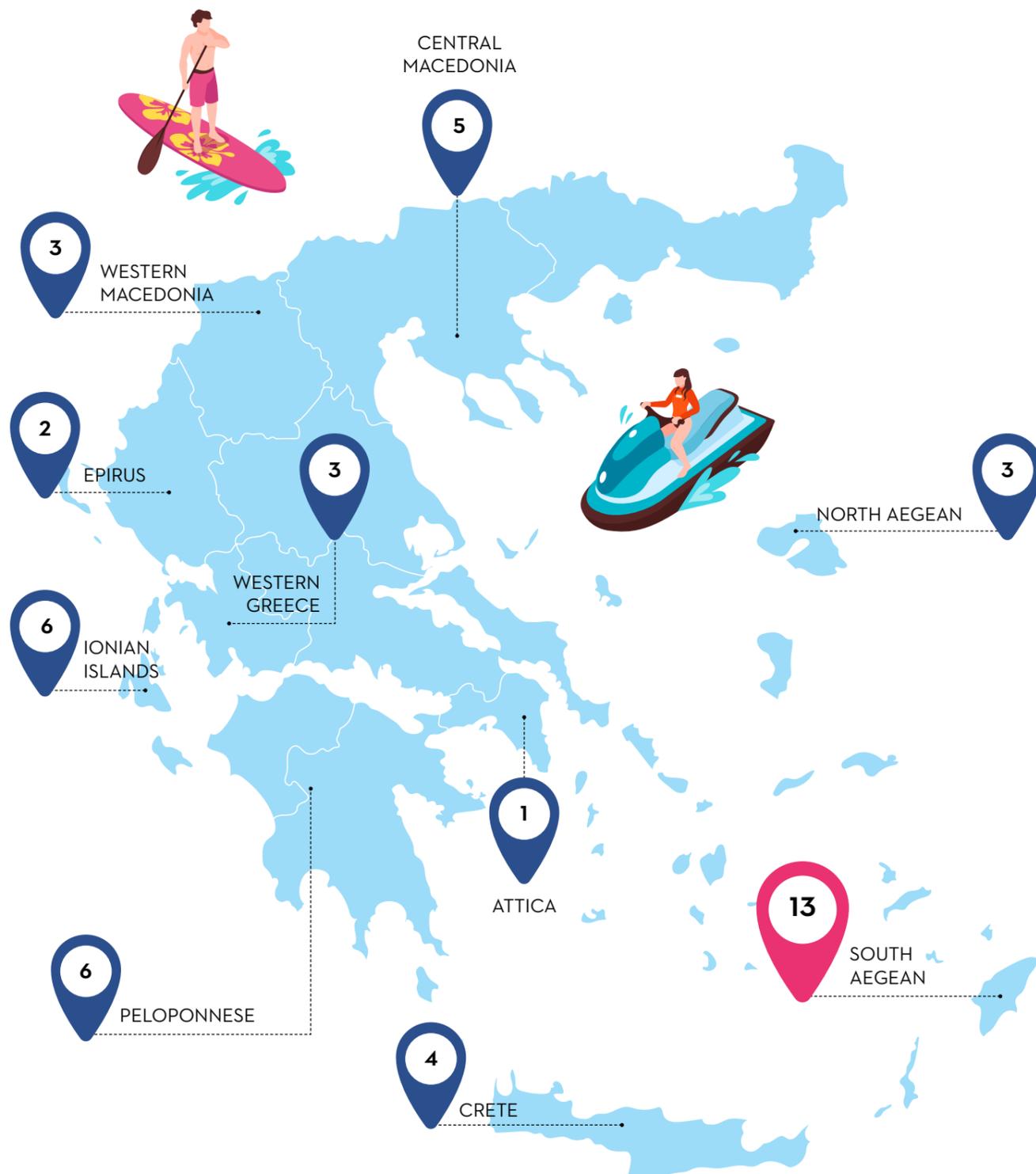


The time period between 12:00 and 18:00 is when most fatal accidents take place, with 5 fatal accidents on average (almost 50%).



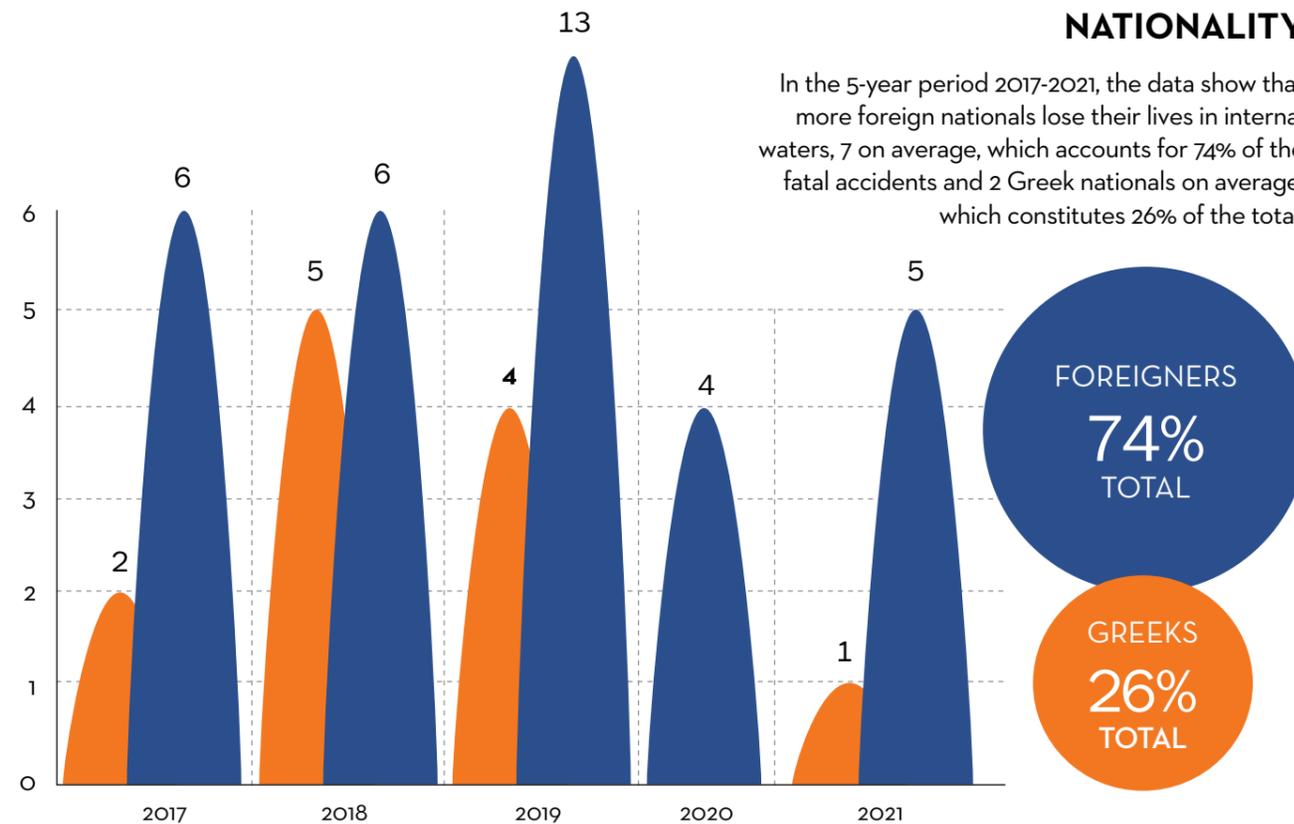
REGION

In the 5-year period 2017-2021, the Regions with the most fatal accidents in recreational activities were the South Aegean Region (13 in total), the Peloponnese Region & Ionian Islands (6 per region) and the Region of Central Macedonia with 5 deaths in total.



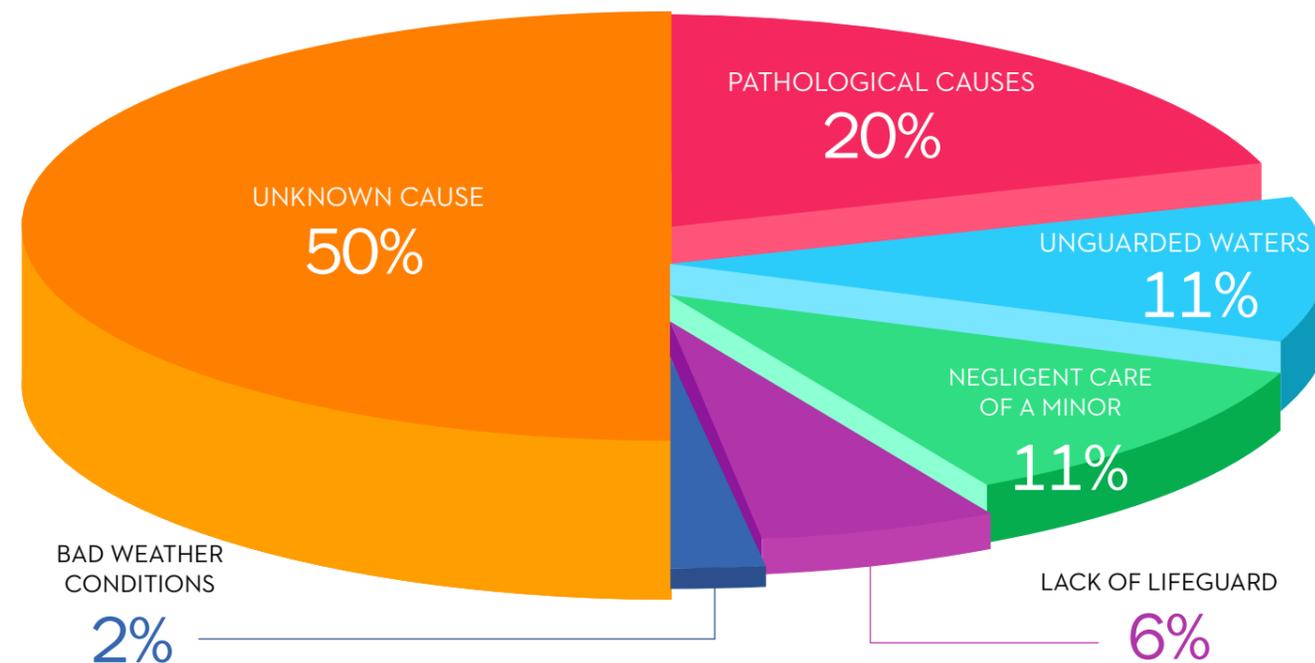
NATIONALITY

In the 5-year period 2017-2021, the data show that more foreign nationals lose their lives in internal waters, 7 on average, which accounts for 74% of the fatal accidents and 2 Greek nationals on average, which constitutes 26% of the total.



CAUSES OF THE INCIDENT

In the 5-year period, 20% of people who lose their lives on average in internal waters is due to pathological causes, 11% due to unguarded waters, 11% due to negligent care of an underage victim, 6% due to lack of lifeguard at a hotel swimming pool and 2% due to bad weather conditions. The conditions under which the 50% of people lost their lives, still remain unknown to the Hellenic Police.



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