



MCIB

Marine Casualty Investigation Board
Bord Imscrúdú Taisní Muirí

**REPORT OF AN INVESTIGATION INTO
THE SINKING OF
“FV AZTEC”
OFF DUNCANNON
CO. WEXFORD
11 JANUARY 2021**

**REPORT NO. MCIB/305
(No.6 OF 2021)**

The Marine Casualty Investigation Board (MCIB) examines and investigates all types of marine casualties to, or on board, Irish registered vessels worldwide and other vessels in Irish territorial waters and inland waterways.

The MCIB objective in investigating a marine casualty is to determine its circumstances and its causes with a view to making recommendations to the Minister of Transport - for the avoidance of similar marine casualties in the future, thereby improving the safety of life at sea and inland waterways.

The MCIB is a non-prosecutorial body. We do not enforce laws or carry out prosecutions. It is not the purpose of an investigation carried out by the MCIB to apportion blame or fault.

The legislative framework for the operation of the MCIB, the reporting and investigating of marine casualties and the powers of MCIB investigators is set out in the Merchant Shipping (Investigation of Marine Casualties) Act, 2000.

In carrying out its functions the MCIB complies with the provisions of the International Maritime Organisation's Casualty Investigation Code and EU Directive 2009/18/EC governing the investigation of accidents in the maritime transport sector.



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The Marine Casualty Investigation Board was established on the 25th March 2003 under the Merchant Shipping (Investigation of Marine Casualties) Act, 2000.

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Glossary of Abbreviations and Acronyms

AGS	An Garda Síochána
ALB	All Weather Lifeboat
BIM	Bord Iascaigh Mhara
C	Celsius
CCTV	Closed-Circuit Television
CGU	Coast Guard Unit
CoP	Code of Practice ^{*Note 1}
DAFM	Department of Agriculture Food and the Marine
DoC	Declaration of Compliance
FV	Fishing Vessel
GPS	Global Positioning System
GRP	Glass Reinforced Plastic
HSA	Health and Safety Authority
IRCG	Irish Coast Guard
LOA	Length Overall
LOM	Lifeboat Operations Manager
MRCC	Marine Rescue Coordination Centre
MSO	Marine Survey Office
NMCI	National Maritime College of Ireland
RNLI	Royal National Lifeboat Institution
SAR	Search and Rescue
UTC	Co-ordinated Universal Time
VHF	Very High Frequency

Centimetres	cm
Kilogrammes	kg
Kilometres	Km
Kilowatts	kW
Litres	(lts)
Metres	m
Millimetres	mm
Nautical miles	NM

*Note 1: Code of Practice: Design, Construction, Equipment and Operation of Small Fishing Vessels of less than 15 m Length overall (2014) can be downloaded in electronic format at: <https://www.gov.ie/publication/b2d313-code-of-practice-fishing-vessels-less-than-15m-length-overall/>

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Produced 23rd December 2021.

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1. SUMMARY

- 1.1 At 07.00 hrs on 11 January 2021 the fishing vessel (FV) “Aztec” departed Duncannon Harbour, Co. Wexford with four persons onboard, to pair trawl with the “FV Western Dawn” for sprat. At 09.30 hrs they hauled the net, took sprat onboard, and stored them below deck in secure pounds.
- 1.2 At approximately 10.00 hrs the “FV Western Dawn” shot its net and the “FV Aztec” took onboard the end for the next tow. As it prepared to take the ends, the fishing weight of approximately 350 kilogrammes (kg) fell from the gunwale onto the deck.
- 1.3 At 10.45 hrs the “FV Western Dawn” hauled its net and the “FV Aztec” passed back the end of the net to the “FV Western Dawn”. The “FV Western Dawn” then commenced passing fish over to the “FV Aztec” and during this operation a crewmember noticed a hole in the starboard aft section of the deck allowing water to flood into the steering compartment. As the stern settled deeper in the water the Skipper manoeuvred the “FV Aztec” alongside the “FV Western Dawn” and instructed the crew to transfer to the “FV Western Dawn”. The “FV Aztec” then sank within a minute.

Note: All times are local time = Co-ordinated Universal Time (UTC) unless specified.

See Appendix 7.1 Photograph No.1 - “FV Aztec”.

2. FACTUAL INFORMATION

“*FV Aztec*” registered number S12, is a small trawler rigged for mid-water sprat fishing with paired vessel “*FV Western Dawn*”.

See Appendix 7.2 Figure No.1 General arrangement - “*FV Aztec*”.

The vessel had in the region of ten tonne of sprat onboard and was due to offload the catch later in the day at Duncannon Harbour.

2.1 Vessel Details

Name:	“ <i>FV Aztec</i> ”.
Official Number:	403767.
Flag State:	Ireland.
Registration Number:	S12.
Type of Vessel:	Trawler.
Port of Registry:	Skibbereen.
Call Sign:	EI2534.
Builder:	Seaways, McDuff, Scotland, UK.
Year Built:	2005.
Construction:	Glass Reinforced Plastic (GRP) hull, aluminium wheelhouse with wooden decks. Transom stern trawler. It is arranged with a forward lantern style wheelhouse set over a raised flush foredeck. Below deck, the vessel had watertight bulkheads either end of the engine room. The bulkhead between the fish hold and the steering compartment has a 25 millimetres (mm) drain hole fitted so cannot be considered a watertight bulkhead. The drain hole allows water drain from steering compartment into the fish hold. The fish hold hatch is just aft of midships. The transom fitted goal post type gantry fitted is with net drums.
Length Overall:	11.89 metres (m).
Beam:	5.2 m.
Maximum Draught:	2.36 m.
Gross Tonnage:	23.95 tonne.

Main Engine: Caterpillar 3406 diesel engine developing 150 kilowatt (kW) power for propulsion, hydraulic and electrical power. Two 1800 litre (ltr) capacity fuel tanks are located on each side of the engine compartment. There is an engine driven bilge pump with suctions arranged for pumping out the fish hold or engine room bilges. The engine room and fish hold bilges are fitted with high water level alarms but there is none fitted to the steering compartment. There is also a large electric pump fitted for pumping fish ashore from the fish hold.

2.2 Fishing Gear and Method

The vessel was pair trawling for sprat with partner “*FV Western Dawn*” using mid water trawls. The “*FV Aztec*” had earlier recovered a catch and stowed the fish in the hold in secure pounds. The pounds are secure sections of the fish hold separated by boards to improve the stability of the vessel.

2.3 The “*FV Aztec*” was the subject of a compliance survey under the provisions of the Code of Practice (CoP): Design, Construction, Equipment and Operation of Small Fishing Vessels of less than 15 m Length overall. The CoP Declaration of Compliance (DoC), was duly completed and signed off by the authorised person.

2013 CoP DoC inspection and survey:

Date of issue: 08/06/2013.

Date of expiry: 06/06/2017.

2017 CoP DoC inspection and survey:

Date of issue: 27/06/2017.

Date of expiry: 26/06/2021.

Fishing Licence issued on 20 June 2020. Valid from 1 July 2020 to 30 June 2021.

See Appendix 7.3 Copy of Fishing Licence.

Crew Qualifications and Experience

Skipper: 46 years fishing experience. Board Iascaigh Mhara (BIM) Safety Card holder.

Crewmember No.1: Ten years fishing experience. National Maritime College of Ireland (NMCI) Fire Fighting, Survival Techniques and Elementary First Aid certificates.

Crewmember No.2: 25 years fishing experience. Petans Basic offshore safety training.

Crewmember No.3: Five years fishing experience. BIM Safety Card holder.

2.4 Marine Incident Information

Type: This was a very serious marine casualty resulting in the loss of the vessel.

Time: The incident occurred at approximately 11.00 hrs on 11 January 2021.

Position: 500 m south of Duncannon Fort, Duncannon, Co. Wexford.

See Appendix 7.4 Position of Casualty.

Weather: Wind: westerly force 4. Sea state: slight. General outlook: overcast.

See Appendix 7.5 Met Éireann Weather Report.

Low water: 10.10 hrs.

Source: Port of Waterford Tide Tables.

2.5 Shore Authority Involvement

Extract from MRCC Dublin SITREP

1156: ALERT CALL FROM LOM FETHARD LIFEBOAT LOM.

1200: DUNMORE EAST LIFEBOAT TASKED.

1201: ROSSLARE COASTGUARD RADIO CQ ALL STATIONS: FV WESTERN DAWN ADVISE 4 CREW RECOVERED FROM FOUNDERED FISHING VESSEL ROUTING TO DUNCANNON PIER NO MEDICAL ISSUES.

1205: TASK FETHARD CGU.

1211: DUNMORE EAST ALB PROCEEDING.

1216: WATERFORD HARBOUR MASTER ADVISED OF SITUATION AND PROXIMITY OF FOUNDERED VESSEL TO SHIPPING CHANNEL.

1222: FETHARD CGU ON SCENE.

1224: DUNMORE EAST RNLI ON SCENE.

1226: FV WESTERN DAWN ALONGSIDE AT DUNCANNON.

- 1231: FETHARD CGU CONFIRM SKIPPER ADVISE NO MEDICAL ASSISTANCE REQUIRED BY CREW.
- 1152: DUNCANNON AGS UPDATED.*
- 1332: IRISH LIGHTS CONTACTED BY MRCC DUBLIN AND SITREP PASSED. IRISH LIGHT ENGAGE IN SITUATION. 1/11/2021.
- 1415: DUNMORE EAST LIFEBOAT REMAIN ON SCENE TO MONITOR.

*Time should read 12:52 when, having become aware locally that the situation was unfolding the Gardaí contacted the Irish Coast Guard (IRCG) to offer assistance.

3. NARRATIVE

- 3.1 On the morning of 11 January 2021 the “*FV Aztec*” sailed from Duncannon Pier, Co. Wexford at 07.00 hrs to fish sprat in Waterford Estuary alongside its paired trawler the “*FV Western Dawn*”. There was no risk assessment or method statement for this type of fishing arrangement included in the vessel’s safety statement. The “*FV Aztec*” shot its net first and hauled fish at 09.30 hrs. These fish were stowed in pounds in the fish hold divided by boards. It was estimated that this haul was in the region of at least eight tonnes of fish. The load condition stability calculations carried out in 2017 allowed for ten tonnes of loose fish in pounds in the fish hold. These were placed in the fish hold filling from the after end first.
- 3.2 At 10.00 hrs the “*FV Western Dawn*” shot its net for the “*FV Aztec*” to take the end for the next tow. During this operation, the towing weight for the net dropped from the gunwale onto the starboard aft deck of the “*FV Aztec*”. This punctured a hole of approximately 300 centimetres (CM)² in the deck roughly 200 cm forward of the transom (see Appendix 7.6 Photograph No. 2 - Hole in Deck). Due to the amount of gear around this area of the deck the damage went undiscovered at this time. The fishing weight was made up of a collection of chain and weighed 350 kg.
- See Appendix 7.7 Photograph No. 3 - Fishing Weight.
- 3.3 At approximately 10.45 hrs the “*FV Western Dawn*” hauled its net and the “*FV Aztec*” passed back the end of the net to it. It was then decided to pass fish from the “*FV Western Dawn’s*” net to the “*FV Aztec*”. The crew of the “*FV Western Dawn*” passed over the bag rope and this was hauled up on the main winch aft. The bag rope from the “*FV Western Dawn*” was heaved across to the “*FV Aztec*” using the main winch through the aft starboard towing block. The Gilsen winch and lifting derrick are situated starboard forward. The Gilsen winch was then secured to the bag rope/lifting strop and the cod end was taken onboard, one lift at a time allowing the fish to enter the fish room via scuppers on the deck. The securing of the bag rope on the aft starboard hanging block and subsequent lifting of the cod end lift caused the vessel to list to starboard and immerse the hole on the aft starboard side of the deck.
- See Appendix 7.8 Photograph No. 4 - Hauling Arrangement.
- 3.4 As the fish were being taken onboard the “*FV Aztec*” the Skipper noticed the water was not clearing off the aft deck in the usual manner. At the same time a crewmember noticed water flooding into the steering compartment through a hole in the deck. The crewmember attempted to stem the flow with an oilskin and alerted the Skipper.

- 3.5 As the steering compartment flooded, the vessel lost its reserve buoyancy aft and began to settle by the stern. The crew tried to let go the net as the Skipper manoeuvred alongside the “*FV Western Dawn*”. Once alongside, with the stern going under water the Skipper of the “*FV Aztec*” instructed the crew to abandon ship and to transfer across to the other vessel. At this stage the fish hold bilge alarm sounded as the fish hold began to flood through deck scuppers and the open hatch. Time did not allow for activation of the engine driven bilge pump or the large electric fish pump. The rate of flooding and settling by the stern would have made any attempt to evacuate water by these pumps futile.
- 3.6 The crew of the “*FV Aztec*” successfully transferred to the “*FV Western Dawn*” dry, and watched their boat sink in less than one minute. The vessel settled by the stern as the water filled into the fish hold and into the engine room through the open watertight door. No pollution was detected in the vicinity of the sinking between the time of the incident and recovery of the vessel on 29 January 2021. The sinking was reported to MRCC (Marine Rescue Coordination Centre) Dublin by the Fethard Lifeboat Operations Manager (LOM). The Skipper of the “*FV Western Dawn*” confirmed the foundering to MRCC Dublin and confirmed he had the crew of the “*FV Aztec*” safely onboard his vessel. The crew of the “*FV Aztec*” were then transferred ashore at Duncannon Harbour.
- 3.7 Dunmore East Lifeboat arrived on the scene at 12.24 hrs and remained until dark to monitor for pollution and to ensure other vessels stayed clear.
- 3.8 A salvage operation was commenced leading to the successful recovery of the vessel from the seabed at 20.00 hrs on 29 January 2021.

See Appendix 7.9 Photograph No. 5 - Salvage.

4. ANALYSIS

- 4.1 The weather was relatively calm at the time of the incident. The wind was westerly force four with a moderate sea and a low swell. Visibility was good on a generally overcast day with an air temperature of 9.1 Celsius (C) and a sea temperature of 8.2 C. There is nothing to suggest that weather conditions contributed in any way to the sinking.

See Appendix 7.5 Met Éireann Weather Report.

- 4.2 The first trawl of the day was recovered at 09.30 hrs and stowed in the fish hold. It is estimated that at least eight tonnes of sprat were caught at this time causing significant loading on the vessel. The load condition stability calculations carried out in 2017 allowed for ten tonnes of loose fish in pounds in the fish hold. This will have been calculated as evenly spread whereas on the day of the incident the previous catch was loaded into the after end of the fish hold first which will have trimmed the vessel by the stern causing the after end to sink deeper into the water.

- 4.3 As the “*FV Western Dawn*” shot its net for the “*FV Aztec*” to take the end for the next tow the towing weight for the net dropped from the gunwale of the “*FV Aztec*” onto the starboard aft deck. This action punched a hole through the deck of approximately 300 cm². This went unnoticed by the crew at this time due to the amount of gear located around this area of the deck.

- 4.4 After the “*FV Western Dawn*” recovered its net and took onboard part of the catch, it handed over the net to the “*FV Aztec*” to recover the remainder of the fish. During the operation to recover these fish, the net was hauled close to the starboard after end of the “*FV Aztec*”. The cod-end was then attached and lifted using the derrick. The height of side derrick for cod-end lift above deck level is 5.06 m and the distance from side derrick block head to centreline of vessel is 2.54 m. The height of aft towing block above deck level is 1.6 m.

See Appendix 7.10 Photograph No. 6 - Lifting Dimensions.

These actions combined caused the after deck on the starboard side to dip into the water. This action resulted in the steering compartment starting to flood through the hole in the deck. The lack of a bilge alarm in the steering compartment meant this was not picked up until it was noticed by one of the crew. Despite attempts by the crewmember to stem the flow, the steering compartment continued to flood resulting in loss of buoyancy in the after end of the vessel. The steering compartment consisted of a free area of approximately five cubic meters and provided the majority of the buoyancy to the after end of the vessel. This caused the vessel to settle further by the stern ultimately leading to flooding of the fish hold through deck scuppers and open hatch.

4.5 The Skipper quickly noticed the vessel was in peril and attempted to let go the net. As the stern began to settle below the surface, he brought the vessel alongside the “*FV Western Dawn*” and ordered the crew to abandon their vessel. The transfer of crew went smoothly and the “*FV Aztec*” sank in what was estimated to be less than a minute later. Time did not allow for operation of the bilge pumps and they would have been ineffective against the rate of flooding. As the fish hold flooded, the vessel sank quickly by the stern leaving only a small section of the bow above water.

See Appendix 7.11 Photograph No. 7.

4.6 Catches of sprat had been reported as being good with Closed Circuit Television (CCTV) images of the “*FV Aztec*” showing the vessel heavily laden down by the stern on returning to Duncannon on 10 January 2021. Discharge of fish is done by partially flooding the fish hold and pumping the fish and water mix ashore.

4.7 The load condition stability calculations carried out in 2017 allowed for ten tonnes of loose fish in pounds in the fish hold. The stability calculations done at this time however concentrated on lateral stability and did not address longitudinal aspects of stability. Vessels of this size have no load restrictions attached to them, however this vessel was heavily loaded and attempting to take on further catch.

5. CONCLUSIONS

- 5.1 Both the “*FV Aztec*” and the “*FV Western Dawn*” have been pair trawling for sprat at this time of year for the past eight years. The Skippers and crews of both vessels were familiar with the processes involved in this type of pair trawling. There were no risk assessments or method statements for pair trawling listed in the “*FV Aztec’s*” safety statement. Effective risk assessments and procedures would have highlighted dangers associated with pair trawling.
- 5.2 The “*FV Aztec*” had an in-date CoP survey and there were no reports of serious defects prior to sailing from Duncannon on the morning of 11 January 2021.
- 5.3 The vessel was heavily laden at the time and dependant on the buoyancy provided by the steering compartment to maintain its longitudinal stability. Although not required, the “*FV Aztec*” had stability calculations done in 2017 for a condition with ten tonnes of fish in the hold. These stability calculations concentrated on lateral stability and did not address longitudinal aspects of stability. It was stated during recovery operations that the “*FV Aztec*” had between ten and 12 tonnes of fish onboard. Although no limits are set for vessels of this size, the loading of the vessel was a contributory factor in the sinking. This must take into account the weight of the catch onboard as well as the positioning of fish in the hold. The effect of the additional catch being taken onboard at the time of the incident will have also caused considerable settling by the stern and listing to starboard. The combination of these forces will have left the longitudinal stability of the vessel dependant on the buoyancy provided by the steering compartment.
- 5.4 The hole in the deck went unnoticed when it occurred but the incident should have merited further investigation.
- 5.5 No alert was sent out by the “*FV Aztec*” or by the “*FV Western Dawn*”. First notification of foundering of the vessel to MRCC Dublin was from the shore. Although there was no imminent danger to life, as a serious incident occurred, a Pan-Pan alert should have been raised with the Coast Guard.
- 5.7 The steering compartment of the “*FV Aztec*” had no bilge alarm fitted and no means of directly pumping out this compartment. A small drain hole allowed water to drain from the steering compartment onto the fish hold.

6. SAFETY RECOMMENDATIONS

- 6.1 The Minister for Transport should issue a Marine Notice to owners/skippers of fishing vessels reminding them to be aware of the safe loading capacity of their vessels. Also, to be aware where the stability in a loaded state is dependent on a compartment's watertight integrity it is advisable that compartment is alarmed and has a means of being pumped out.
- 6.2 The Minister for Transport should issue a Marine Notice to owners/skippers of fishing vessels reminding them that where an area of deck is subjected to regular working and shock loading, consideration should be given to re-enforcing and strengthening that area.
- 6.3 The Minister for Transport should review the Code of Practice for Fishing Vessels under 15 meters to take into account heave loadings on decks during fishing operations.
- 6.4 The Minister for Transport should review the Code of Practice for Fishing Vessels under 15 meters to take into account the maximum load of bulk fish a vessel is authorised to carry.

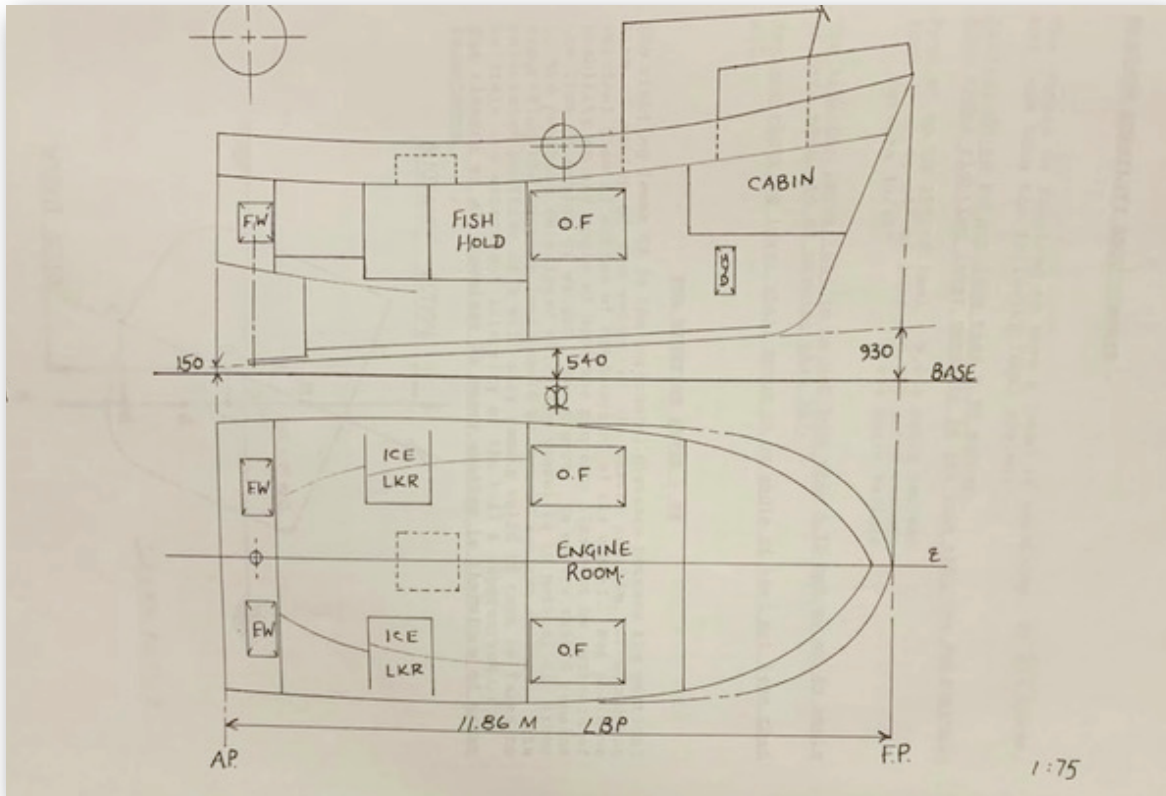
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Appendix 7.1 Photograph No. 1 - "FV Aztec"



Appendix 7.2 Figure No. 1 General Arrangement - "FV Aztec"



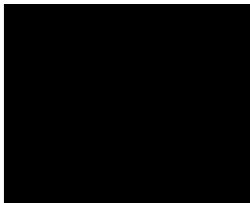
Appendix 7.3 Copy of Fishing Licence



**FISHERIES ACTS 1959 TO 2006
SEA – FISHING BOAT LICENCE**

LICENCE NO. 277901480

The boat being a sea-fishing boat particulars of which are set out in the Schedule hereto is hereby licensed for the purposes of section 4 of the Fisheries (Amendment) Act 2003 (as inserted by section 97 of the Sea-Fisheries and Maritime Jurisdiction Act 2006) for the period commencing on 1 July 2020 and ending on 30 June 2021 in the name of:



SCHEDULE

Name of Boat to which the Licence relates: **AZTEC**

Country of Registration: **IRELAND**

Registration Number: **S12**

Port of Registration: **Skibbereen**

Length Overall: **11.89 metres**

Gross Tonnage: **23.95 Tonnes**

Engine Capacity: **150 kilowatts**

International Radio code or Call Sign: **EI2534**

CFR Number: **IRL000113029**

Type of Vessel: **Trawler**

Type of Gear: **OTM - Mid-water Otter Trawls, OTB - Bottom Otter Trawls, FPO - Pots, LHP - Hooks and lines Hand lines and pole lines (hand operated), GND - Gillnets (Drift), GNS - Gillnets (Set)**

Fleet Segment: **Polyvalent [<18m LOA]**

Other Information:

Date: 18 June 2020



Licensing Authority pursuant to Section 3 of Fisheries (Amendment) Act 2003 (No. 21)

Appendix 7.3 Copy of Fishing Licence

CONDITIONS OF LICENCE

The following conditions are attached to this licence:

General obligation to comply with EU and National law: The owner and/or master of the boat to which this licence relates shall ensure that the boat and all persons on board shall comply with any requirements, for the time being in force, under EU Law and National Law applicable to the operation of fishing boats and their technical characteristics.

Percentage EEA Crew: The boat to which this licence relates shall not be used for sea-fishing, whether within the exclusive fishery limits of the State or otherwise, unless at least **50 per cent** of the members of the crew are nationals of any of the Member States of the European Union or a State belonging to the European Economic Area.

Safety & Seaworthiness: The owners and/or masters of the boat to which this licence relates shall ensure that the boat and its crew shall comply with any requirements for the time being in force in relation to the safety of fishing boats (safety requirements should be taken to include any requirements in relation to radio installations, equipment and crew training), and shall maintain the fishing boat in a safe and sea-worthy condition.

Manning: The boat must carry the stipulated number of qualified crew as required under the Fishing Vessels (Certification of Deck Officers and Engineer Officers) Regulations 1988, as amended.

Ownership and Registration: This licence is valid for so long, and only for so long, as the person to whom it is granted is the owner of the boat to which it relates and the boat is entered on the Register of Fishing Boats.

Licence to be carried on Boat: During the period of its validity this licence shall be carried on board the boat to which it relates and the master or other person for the time being in charge of the boat shall produce it for inspection on demand by a Sea Fisheries Protection Officer.

Beam Trawl Preclusion: The boat to which this licence relates shall not be used for sea-fishing by means of beam trawls.

Vessel Modifications: Any proposed structural modifications to the vessel, including changes to the vessel's engine, **must** be approved **in advance** by the Licensing Authority. Such modifications can have significant implications in terms of the licensing of the vessel, including replacement capacity requirements. The vessel may be required to be re-measured and a new licence application may be required to be submitted.

Scallops Preclusion: The vessel will be precluded from fishing for scallops (*Pecten maximus*). However by way of derogation and to allow for a by-catch, a quantity of scallop that is no greater than 10% by live weight of the total quantity of all species of fish may be retained on board or landed on any occasion.

Power to suspend or revoke Licence: The Licensing Authority may suspend or revoke this licence, pursuant to section 4 of the Fisheries (Amendment) Act 2003 (as inserted by section 97 of the Sea-Fisheries and Maritime Jurisdiction Act 2006), for a breach of any condition of the licence. In that event, the licence shall be surrendered to the Licensing Authority for Sea-fishing Boats, Clogheen, Clonakilty, Co. Cork, or risk a Court fine of not more than €500.

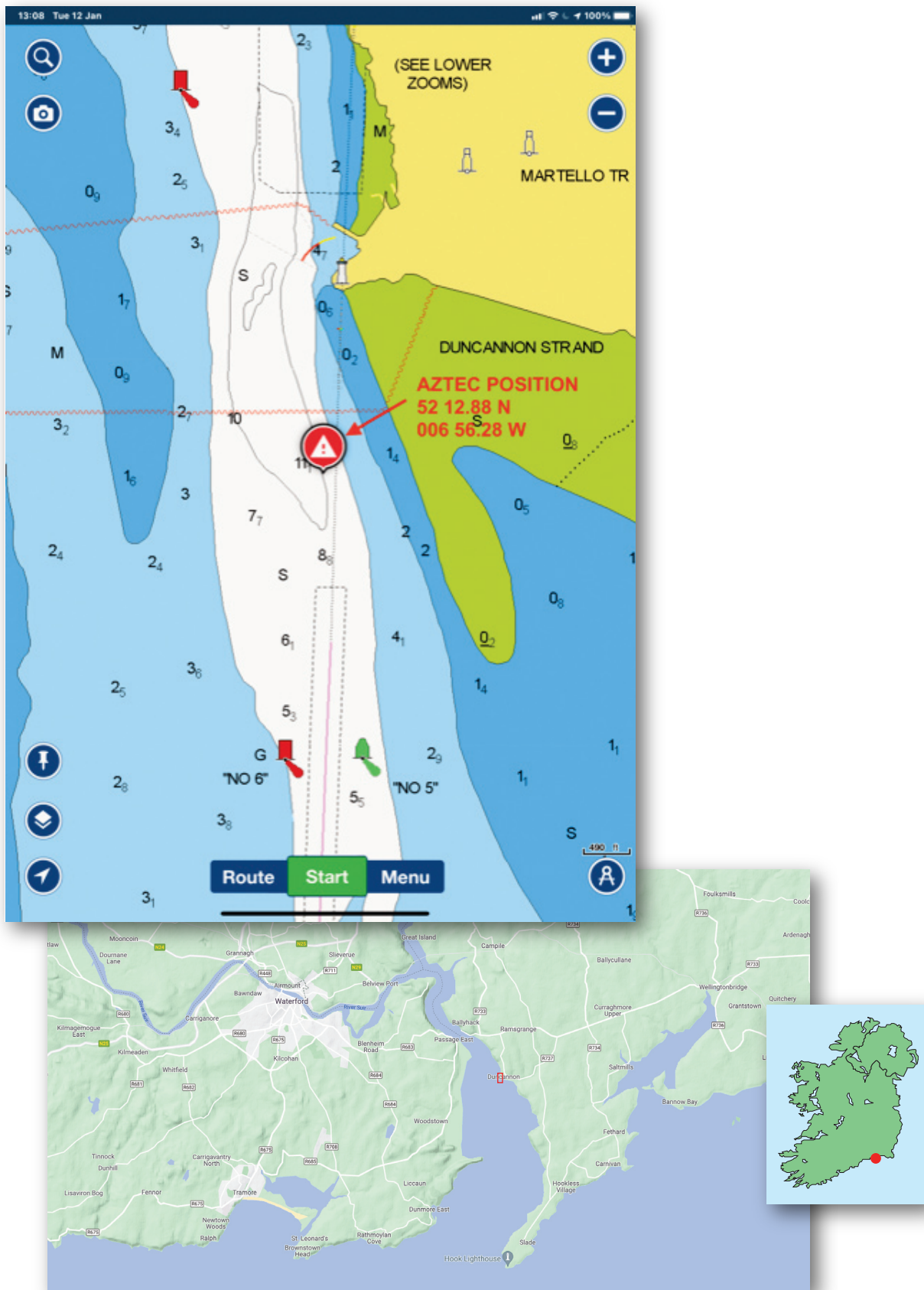
Cesser of Licence: Should any information or evidence come to the attention of the Licensing Authority that casts doubt on the veracity of the information or documentation submitted in support of the application for this licence, the licence shall cease to be in force.

Social and Economic benefits: The Licensing Authority, in deciding whether or not to renew the licence, will require the owner of the boat to provide such information as will demonstrate the extent of the social and economic benefit accruing to the local coastal communities arising from the operation of the boat.

MFV "AZTEC"

APPENDIX 7.4

Appendix 7.4 Position of Casualty



Appendix 7.5 Met Éireann Weather Report



Met Éireann

The Irish Meteorological Service

Climate Services
Glasnevin Hill
Dublin 9

Seirbhísí Aeráide
Cnoc Ghlas Naíon
Baile Átha Cliath 9

Tel: +353-1-8064260
Email: enq@met.ie
Email: legal@met.ie

Our Ref: WS1730/2101_15

Your Ref: MCIB/12/305

Marine Weather Report for the sea-area off Duncannon County Wexford latitude/longitude coordinates in decimal-degrees: 52.2145 -6.9377

Sunday 10-January-2021

Meteorological synopsis:

A light to moderate westerly airflow covered Ireland on the 10th as a high-pressure system (1031 hPa) was near-stationary to the south of the country and extended a ridge with stable conditions over the Duncannon area.

Weather and Sea-State Conditions Daily Summary for the Duncannon area on Sunday 10-January-2021 (from midnight to midnight):

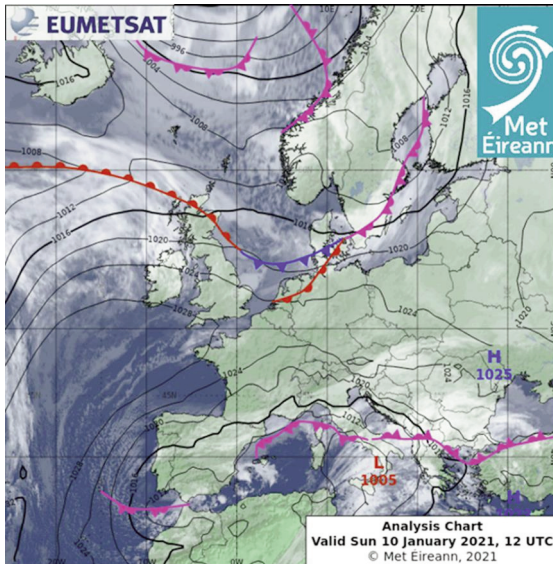
Weather: apart from mist patches during the morning the weather was fine and dry throughout the day with variable cloud and occasional sunny spells.

Temperature: air temperatures offshore ranged between 6 and 9 degrees Celsius (air frost occurred over land until mid-morning).

Wind: light to moderate westerly breezes Beaufort force 3 or 4 with occasional gusts up to 20 knots.

Visibility: generally good visibility; occasionally moderate in any morning mist patches.

Sea state: slight or less



Appendix 7.5 Met Éireann Weather Report



Met Éireann

The Irish Meteorological Service

Climate Services
Glasnevin Hill
Dublin 9

Seirbhísí Aeráide
Cnoc Ghlas Naíon
Baile Átha Cliath 9

Tel: +353-1-8064260
Email: enq@met.ie
Email: legal@met.ie

Our Ref: WS1730/2101_15

Your Ref: MCIB/12/305

Marine Weather Report for the sea-area off Duncannon County Wexford latitude/longitude coordinates in decimal-degrees: 52.2145 -6.9377

Monday 11-January-2021

Meteorological synopsis:

A moderate westerly airflow over Ireland increased fresh to strong in the afternoon of the 11th between high pressure (1032 hPa) to the south and a complex area of low pressure to the north of the country. Frontal systems embedded in the flow moved slowly eastwards across the northern half of the country while the southern half of the country including the Duncannon area remained mostly dry.

Weather and Sea-State Conditions Daily Summary for the Duncannon area on Monday 11-January-2021 (from midnight to midnight):

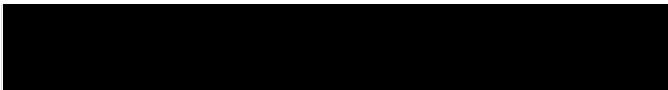
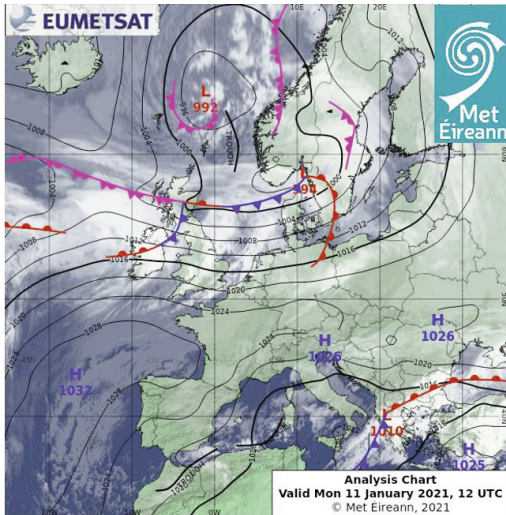
Weather: cloudy or overcast, dry for most of the day, light patchy rain or drizzle in the late afternoon and evening. Total 24-hour rainfall accumulation less than 1 mm.

Temperature: air temperature offshore 8 to 10 degrees Celsius.

Wind: moderate westerly Beaufort force 4 in the early morning. From around 10am winds increased moderate to fresh southwesterly Beaufort force 4 or 5 and gusts up to 30 knots. After 7pm winds increased further fresh to strong Beaufort force 5 or 6 with gusts up to 36 knots.

Visibility: generally good visibility; occasionally moderate visibility in rain or drizzle in the evening.

Sea state: slight to moderate



Appendix 7.5 Met Éireann Weather Report



Met Éireann

The Irish Meteorological Service

Climate Services
Glasnevin Hill
Dublin 9

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Baile Átha Cliath 9

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Our Ref: WS1730/2101_15

Your Ref: MCIB/12/305

Marine Weather Report for the sea-area off Duncannon County Wexford latitude/longitude coordinates in decimal-degrees: 52.2145 -6.9377

Tuesday 12-January-2021

Meteorological synopsis:

The southwesterly airflow over Ireland decreased on the 12th with the high-pressure system (1034 hPa) to the south and depressions to the north of the country. A slow-moving weather front (warm front) brought persistent rain to the Duncannon area in the afternoon and evening.

Weather and Sea-State Conditions Daily Summary for the Duncannon area on Tuesday 12-January-2021 (from midnight to midnight):

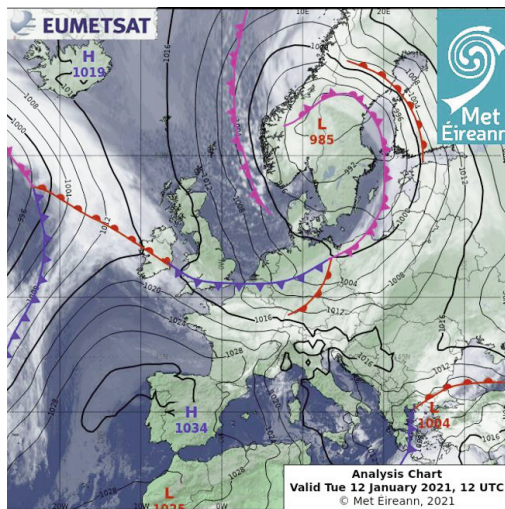
Weather: overcast and misty with scattered outbreaks of rain and drizzle in the morning followed by persistent rain in the afternoon; further rain and mist in the evening. Total 24-hour rainfall accumulation estimated between 6 and 10mm.

Temperature: air temperature 9 or 10 degrees Celsius

Wind: fresh to strong southwesterly Beaufort force 5 or 6 during the morning decreased to moderate force 4 in the afternoon then light and variable force 3 or less by evening. Maximum gusts up to 25 knots occurred during early morning.

Visibility: moderate or poor visibility in rain, drizzle and mist

Sea state: moderate



Appendix 7.5 Met Éireann Weather Report



Met Éireann

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Our Ref: WS1730/2101_15

Your Ref: MCIB/12/305

Copy of Archived Sea Area Forecasts as issued on 10-January-2021 at 12noon.

24-hour Sea Area Forecast

Updated at 0000 / 0600 / 1200 / 1800

Sea Area Forecast until 1200 Monday, 11 January 2021
Issued at 1200 Sunday, 10 January 2021

1. Gale warning: Nil
Small craft warning: In operation

2. Meteorological situation at 0900: A broad anticyclone of 1031 hPa centred approximately 350 nm southwest of Valentia extends a ridge of high pressure over Ireland, maintaining a moderate to fresh westerly airflow over the country.

3. Forecast for Irish coastal waters from Slyne Head to Malin Head and for the Irish Sea north of Anglesey
Wind: West force 4 or 5, increasing force 5 or 6 imminently. Soon increasing force 6 or 7 and gusty and later backing southward to west.
Weather: Cloudy with patches of mist, rain and drizzle. More persistent rain later.
Visibility: Mainly good, decreasing moderate or poor in mist and precipitation. Later decreasing mainly moderate or poor.

Forecast for Irish coastal waters from Howth Head to Hook Head to Slyne Head and for the Irish Sea south of Anglesey
Wind: West to northwest force 3 or 4, increasing force 4 or 5 imminently. Soon increasing west force 5 or 6 and gusty. Later increasing force 6 or 7 and gusty.
Weather: Cloudy with mist patches and occasional rain and drizzle. More persistent rain in the west later.
Visibility: Mainly good, decreasing moderate or poor in mist and precipitation.

Warning of Heavy Swell: Nil

4. Outlook for a further 24 hours until 1200 Tuesday 12 January 2021: Strong to near gale force westerly winds. Decreasing fresh to strong on southern and western sea areas on Monday night, but becoming moderate to fresh anticyclone variable on northern and western sea areas. Weather: Rain spreading from the west, heavy at times in the north and west.

Text of Gale Warning

Nil

Text of Small Craft Warning

Westerly winds will reach force 6 or higher today (Sunday) on Irish coasts from Erris Head to Rosspan Point to Fair Head, extending to all Irish coasts overnight tonight (Sunday night).

Coastal Reports		12 Noon Sunday, 10 January 2021
Main Head Automatic	West-Southwest, 10 Knots, Cloudy, 10 Miles, 1021, Falling slowly	
Dublin Airport	West-Southwest, 6 Knots, Cloudy, 6 Miles, 1025, Falling slowly	
Buoy M5 51° 41' N 6° 42' W	West, 12 Knots, Wave Ht 0.7 m. The visibility at Tuskar is greater than 10 Miles, 1027, Falling slowly	
Roches Point Automatic	North, 2 Knots, Fair, 14 Miles, 1027, Steady	
Sherkin Island Automatic	West-Southwest, 14 Knots, Mist, 3 Miles, 1028, Steady	
Valentia Automatic	West, 7 Knots, Cloudy, 5 Miles, 1028, Steady	
Mace Head Automatic	West, 15 Knots, Rain shower, 5 Miles, 1025, Steady	
Belmullet Automatic	West, 11 Knots, Cloudy, 11 Miles, 1024, Steady	
Buoy M1 53° 8' N, 11° 12' W	Report not available	
Buoy M2 53° 29' N, 5° 28' W	West, 17 Knots, Wave Ht 0.9 m, 1024, Steady	
Buoy M3 51° 13' N, 10° 33' W	West-Southwest, 11 Knots, Wave Ht 2.2 m, 1028, Steady	
Buoy M4 58° 0' N, 10° 0' W	West-Southwest, 18 Knots, Wave Ht 3.1 m, 1022, Steady	
Buoy M6 53° 4' N, 15° 56' W	Southwest, 16 Knots, Wave Ht 2.3 m, 1025, Steady	

Disclaimer: buoy locations are approximate and are not for navigational purposes

Sea Crossings		State of sea until 1200 Tuesday 12 January 2021
Dublin - Holyhead	Slight, increasing moderate early Monday and decreasing slight on Tuesday.	
Rosslare - South Wales	Slight, increasing moderate early Monday and rough Monday evening	
Cork - South Wales	Slight, increasing moderate early Monday and rough Monday evening	
Rosslare - France	Slight, increasing moderate Sunday night and rough Monday evening	
Cork - France	Slight, increasing moderate Sunday night and rough Monday evening	

Next update before 1900 Sunday, 10 January 2021

Copy of Archived Sea Area Forecasts as issued on 11-January-2021 at 12noon.

24-hour Sea Area Forecast

Updated at 0000 / 0600 / 1200 / 1800

Sea Area Forecast until 1200 Tuesday, 12 January 2021
Issued at 1200 Monday, 11 January 2021

1. Gale warning: Nil
Small craft warning: In operation

2. Meteorological situation at 0900: Ireland lies in a fresh to strong westerly air-flow. Fronts will be slow moving over the area.

3. Forecast for Irish coastal waters from Erris Head to Bloody Foreland to Fair Head
Wind: West to northwest force 4 to 6 imminent. Soon decreasing north to northeast or variable force 2 to 4. Later veering east to southeast.
Weather: Cloudy with rain, drizzle and mist. Rain turning persistent later this afternoon.
Visibility: Mostly moderate or poor.

Forecast for Irish coastal waters from Fair Head to Strangford Lough to Howth Head and for the Irish Sea north of Anglesey
Wind: West force 6 or 7. Soon decreasing northwest to north force 3 to 5. Later decreasing north to northeast force 2 to 4.
Weather: Cloudy with patchy rain, drizzle and mist.
Visibility: Mostly moderate or poor.

Forecast for Irish coastal waters from Howth Head to Mizen Head to Erris Head and for the Irish Sea south of Anglesey
Wind: Southwest to east force 6 or 7. Later decreasing west force 4 to 6.
Weather: Cloudy with patchy rain, drizzle and mist.
Visibility: Mostly moderate or poor.

Warning of Heavy Swell: in the northwest

4. Outlook for a further 24 hours until 1200 Wednesday 13 January 2021: Fresh to strong westerly winds in the west and south. Light to moderate southeast or variable winds in the north and east. Widespread rain, drizzle and mist. Rain most persistent in the north and east.

Text of Gale Warning

Nil

Text of Small Craft Warning

West to southwest winds will reach force 6 or higher today on all Irish coasts.

Coastal Reports		12 Noon Monday, 11 January 2021
Main Head Automatic	West-Southwest, 20 Knots, Mist, 8 Miles, 1007, Steady	
Dublin Airport	West-Southwest, 14 Knots, Gust 20 Knots, Cloudy, 16 Miles, 1013, Falling slowly	
Buoy M5 51° 41' N 6° 42' W	West, 20 Knots, Wave Ht 2.1 m. The visibility at Tuskar is greater than 10 Miles, 1020, Falling slowly	
Roches Point Automatic	West, 16 Knots, Cloudy, 24 Miles, 1019, Falling slowly	
Sherkin Island Automatic	West-Southwest, 17 Knots, Gust 28 Knots, Mist, 3 Miles, 1020, Falling slowly	
Valentia Automatic	West-Southwest, 13 Knots, Rain shower, 2 Miles, 1019, Falling slowly	
Mace Head Automatic	West-Southwest, 22 Knots, Light rain, 1.7 Miles, 1014, Falling slowly	
Belmullet Automatic	West-Southwest, 10 Knots, Mist, 2 Miles, 1012, Falling slowly	
Buoy M1 53° 8' N, 11° 12' W	Report not available	
Buoy M2 53° 29' N, 5° 28' W	West, 22 Knots, Wave Ht 1.6 m, 1013, Steady	
Buoy M3 51° 13' N, 10° 33' W	West-Southwest, 20 Knots, Wave Ht 3.1 m, 1021, Falling slowly	
Buoy M4 58° 0' N, 10° 0' W	West, 22 Knots, Wave Ht 4.5 m, 1010, Steady	
Buoy M6 53° 4' N, 15° 56' W	Southwest, 19 Knots, Gust 30 Knots, Wave Ht 4.8 m, 1014, Falling slowly	

Disclaimer: buoy locations are approximate and are not for navigational purposes

Sea Crossings		State of sea until 1200 Wednesday 13 January 2021
Dublin - Holyhead	Moderate to rough	
Rosslare - South Wales	Moderate to rough	
Cork - South Wales	Moderate to rough	
Rosslare - France	Moderate to rough	
Cork - France	Moderate to rough	

Next update before 1900 Monday, 11 January 2021

Appendix 7.5 Met Éireann Weather Report



Met Éireann

The Irish Meteorological Service

Climate Services

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Email: legal@met.ie

Our Ref: WS1730/2101_15

Your Ref: MCIB/12/305

Copy of Archived Sea Area Forecasts as issued on 12-January-2021 at 12noon.

24-hour Sea Area Forecast

Updated at 0000 / 0600 / 1200 / 1800

Sea Area Forecast until 1200 Wednesday, 13 January 2021
Issued at 1200 Tuesday, 12 January 2021

1. Gale warning: Nil
Small craft warning: In operation
2. Meteorological situation at 0900: A trailing northwest-southeast orientated weather front lies across Ireland. An Atlantic low of 978hPa positioned southwest of Ireland maintains a fresh to strong westerly airflow to the south of the front. Another low of 990hPa over Scandinavia maintains a moderate northeasterly airflow to the north of the front. The front will gradually move northwards tonight.
3. Forecast for Irish coastal waters from Carnsore Point to Valentia to Erris Head
Wind: Southwest to west force 4 or 5, occasionally reaching force 6 in the south. Soon increasing southwest force 5 or 6.
Weather: Cloudy with outbreaks of rain.
Visibility: Moderate to poor.
Forecast for Irish coastal waters from Erris Head to Rosshan Point to Malin Head
Wind: Southeast force 4 or 5 and gusty. Soon becoming southerly. Later veering southwest and increasing force 5 or 6 by end of period.
Weather: Rain, occasionally heavy.
Visibility: Moderate to poor.
Forecast for Irish coastal waters from Malin Head to Howth Head to Carnsore Point and for the Irish Sea
Wind: Northeast force 3 or 4, decreasing variable force 3 or less imminent. Soon becoming south force 3 or 4. Later increasing southeast force 4 or 5 and gusty in sea areas north of Howth Head, and west force 5 or 6 in sea areas south of Howth Head.
Weather: Cloudy to fair, rain soon.
Visibility: Moderate to poor.
Warning of Heavy Swell: Nil
4. Outlook for a further 24 hours until 1200 Thursday 14 January 2021: Fresh to strong southwest winds, gradually veering northerly on Wednesday night from the west, reaching near gale force on the Irish Sea on Thursday. Rain, occasionally heavy, slowly clearing eastwards to isolated showers on Thursday.

Text of Gale Warning	
Nil	
Text of Small Craft Warning	
Southwest to west winds will reach force 6 at times tonight (Tuesday) and tomorrow (Wednesday) on Irish coasts from Carnsore Point to Loop Head to Bloody Foreland.	
Coastal Reports	
12 Noon Tuesday, 12 January 2021	
Malin Head Automatic	East, 6 Knots, Cloudy, 24 Miles, 1017, Rising slowly
Dublin Airport	Northeast, 6 Knots, Cloudy, 20 Miles, 1017, Rising
Buoy M5 51° 41'N 6° 42'W	West, 16 Knots, Wave Ht. 2.2 m. The visibility at Tuskar is 1 Miles, 1016, Rising slowly
Roches Point Automatic	West, 16 Knots, Cloudy, 24 Miles, 1017, Rising slowly
Sherkin Island Automatic	West, 20 Knots, Mist, 2 Miles, 1019, Rising slowly
Valentia Automatic	West, 18 Knots, Mist, 1.4 Miles, 1019, Rising slowly
Mace Head Automatic	West, 13 Knots, Light rain, 0.2 Miles, 1016, Rising
Belmullet Automatic	East, 8 Knots, Light rain, 6 Miles, 1015, Rising slowly
Buoy M1 53° 4'N, 11° 12'W	Report not available
Buoy M2 53° 29'N, 6° 26'W	Northeast, 8 Knots, Wave Ht. 1.1 m, 1016, Rising
Buoy M3 51° 17'N, 10° 33'W	West, 21 Knots, Wave Ht. 3.4 m, 1020, Rising slowly
Buoy M4 56° 0'N, 10° 0'W	East-Southwest, 10 Knots, Wave Ht. 3.4 m, 1016, Rising slowly
Buoy M6 53° 4'N, 10° 56'W	South-Southwest, 18 Knots, Wave Ht. 3.4 m, 1013, Steady
Disclaimer: Buoy locations are approximate and are not for navigational purposes	
Sea Crossings	
State of sea until 1200 Thursday 14 January 2021	
Dublin - Holyhead	Slight, increasing to moderate overnight/Overcast/
Rosslare - South Wales	Moderate to rough
Cork - South Wales	Moderate to rough
Rosslare - France	Mostly rough
Cork - France	Mostly rough

Next update before 1900 Tuesday, 12 January 2021

Appendix 7.5 Met Éireann Weather Report



Met Éireann

The Irish Meteorological Service

Climate Services
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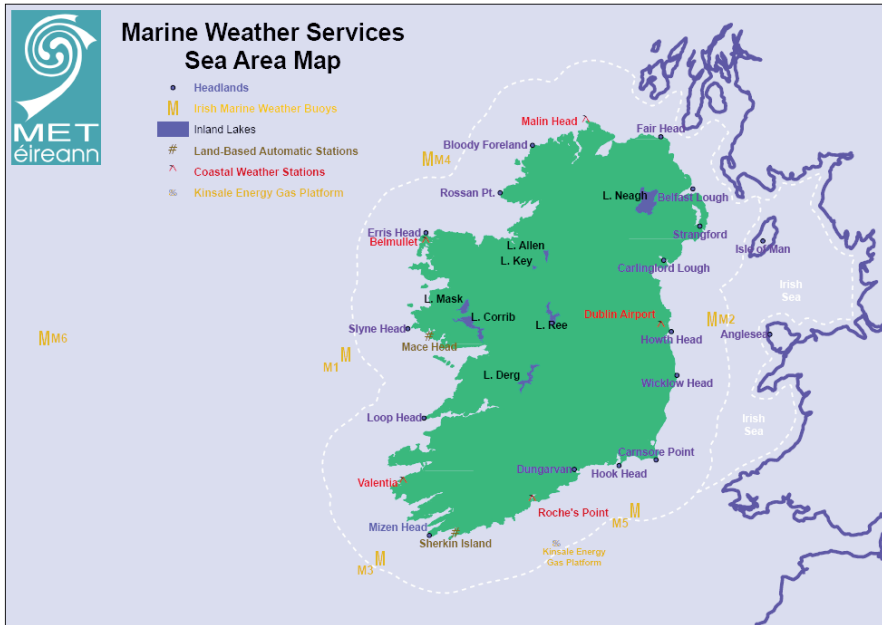
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Our Ref: WS1730/2101_15

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Appendix Sea Area Map & Beaufort Scale of Wind



Beaufort Scale of Wind					
Force	Description	Speed*		Specification	Wave height**
		knots	km/hr	-sea	(metres)
0	Calm	<1	<1	Sea like mirror	
1	Light air	1-3	1-5	Ripples	0.1 (0.1)
2	Light breeze	4-6	6-11	Small wavelets	0.2 (0.3)
3	Gentle breeze	7-10	12-19	Large wavelets, crests begin to break	0.6 (1)
4	Moderate breeze	11-16	20-28	Small waves becoming longer, frequent white horses	1 (1.5)
5	Fresh breeze	17-21	29-38	Moderate waves, many white horses, chance of spray	2 (2.5)
6	Strong breeze	22-27	39-49	Large waves, white foam crests, probably some spray	3 (4)
7	Near gale	28-33	50-61	Sea heaps up, streaks of white foam	4 (5.5)
8	Gale	34-40	62-74	Moderately high waves of greater length	5.5 (7.5)
9	Strong gale	41-47	75-88	High waves, dense streaks of foam, spray may reduce visibility	7 (10)
10	Storm	48-55	89-102	Very high waves, long overhanging crests, visibility affected	9 (12.5)
11	Violent storm	56-63	103-117	Exceptionally high waves, long white foam patches cover sea	11.5 (16)
12	Hurricane	64+	117 & over	Air filled with foam and spray, sea completely white	14 (-)

*Speed = mean speed at a standard height of 10 metres.
**Wave height is only intended as a guide to what may be expected in the open sea. Bracketed figures indicate the probable maximum wave height.

Appendix 7.5 Met Éireann Weather Report



Met Éireann

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Appendix Terminology Sea State & Visibility

Wave Heights / State of Sea:

The wave height is the vertical distance between the crest and the preceding or following trough. The table below gives a description of the wave system associated with a range of significant wave heights.

The Significant wave height is defined as the average height of the highest one-third of the waves. (It is very close to the value of wave height given when making visual observations of wave height.)

Sea State (Descriptive)	Significant Wave height in meters
Calm	0 – 0.1
Smooth(Wavelets)	0.1 – 0.5
Slight	0.5 – 1.25
Moderate	1.25 – 2.5
Rough	2.5 – 4
Very rough	4 – 6
High	6 – 9
Very high	9 – 14
Phenomenal	Over 14

Individual waves in the wave train will have heights in excess of the significant height. **The highest wave of all will have a height about twice the significant height.**

Visibility Descriptions:

Visibility (Descriptive)	Visibility in nautical miles (kilometres)
Good	More than 5 nm (> 9 km)
Moderate	2 – 5 nm (4 – 9 km)
Poor	0.5 – 2 nm (1 – 4 km)
Fog	Less than 0.5 nm (< 1km)

Please Note:

If there are no measurements or observations available for an exact location, then the estimated conditions in this report are based on all available meteorological measurements and observations which have been correlated on the routine charts prepared by Met Éireann.

APPENDIX 7.6

Appendix 7.6 Photograph No. 2 - Hole in Deck



Appendix 7.7 Photograph No. 3 - Fishing Weight



APPENDIX 7.8

Appendix 7.8 Photograph No. 4 - Hauling Arrangement



Appendix 7.9 Photograph No. 5 - Salvage



APPENDIX 7.10

Appendix 7.10 Photograph No. 6 - Lifting Dimensions



Appendix 7.11 Photograph No. 7



SECTION 36 PROCESS

Section 36 of the Merchant Shipping (Investigation of Marine Casualties) Act, 2000

It is a requirement under Section 36 that:

- (1) Before publishing a report, the Board shall send a draft of the report or sections of the draft report to any person who, in its opinion, is likely to be adversely affected by the publishing of the report or sections or, if that person be deceased, then such person as appears to the Board best to represent that person's interest.
- (2) A person to whom the Board sends a draft in accordance with subsection (1) may, within a period of 28 days commencing on the date on which the draft is sent to the person, or such further period not exceeding 28 days, as the Board in its absolute discretion thinks fit, submit to the Board in writing his or her observations on the draft.
- (3) A person to whom a draft has been sent in accordance with subsection (1) may apply to the Board for an extension, in accordance with subsection (2), of the period in which to submit his or her observations on the draft.
- (4) Observations submitted to the Board in accordance with subsection (2) shall be included in an appendix to the published report, unless the person submitting the observations requests in writing that the observations be not published.
- (5) Where observations are submitted to the Board in accordance with subsection (2), the Board may, at its discretion -
 - (a) alter the draft before publication or decide not to do so, or
 - (b) include in the published report such comments on the observations as it thinks fit.'

The Board reviews and considers all observations received whether published or not published in the final report. When the Board considers an observation requires amendments to the report, those amendments are made. When the Board is satisfied that the report has adequately addressed the issue in the observation, then no amendment is made to the report. The Board may also make comments on observations in the report.

Response(s) received following circulation of the draft report (excluding those where the Board has agreed to a request not to publish) are included in the following section.

The Board has noted the contents of all observations, and amendments have been made to the report where required.

8. MSA 2000 - SECTION 36 OBSERVATIONS RECEIVED

	PAGE
8.1 Observation from Owner and MCIB response	36

Note: The names and contact details of the individual respondents have been obscured for privacy reasons.

OBSERVATION 8.1

8.1 Observation from Owner and MCIB response

MCIB Investigation MFV Aztec



30th of September 2021

RE: FV Aztec Section 36 Response MCIB Investigation Draft Report

To Whom it may concern,

I would like to respond on the following item:

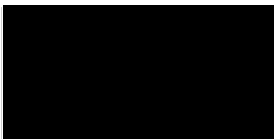
Appendix 7.12: Photograph No.8 Unloading in Duncannon

As per my letter dated 4th of July 2021 where we clarified the situation of the vessel unloading in Duncannon, the picture indicated in appendix 7.12 has absolutely nothing to do with the sinking of the vessel on the 11th of January 2021. The picture referred to shows the vessel fast alongside in Duncannon and as stated previously this loaded condition was as a result of flooding too much water into the fish room in order to pump out the remaining catch. This was not a normal condition for the vessel and would have resulted from the crew being unfamiliar with the discharge process. If a picture was taken of the vessel within a five minute time frame after this, the vessel would have returned to its normal load condition.

We here by request that this picture be removed from the final report as it has no relevance to the incident in question.

I hope this clarifies this situation and if you require further information, please do not hesitate to contact me.

Sincerely



MCIB RESPONSE:
The MCIB notes the contents of this observation.



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