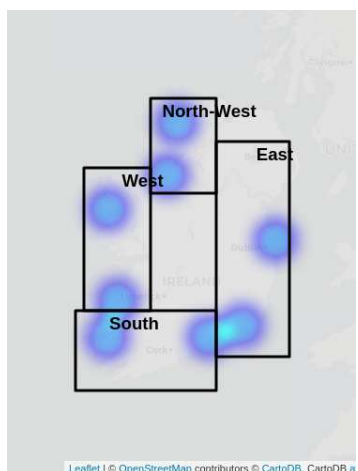
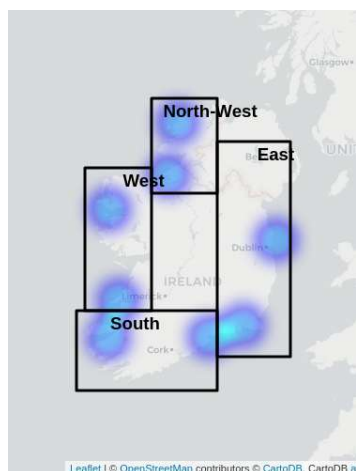


## Diarrhetic Shellfish Toxins



Toxic Sites	0
Analysed Sites	38

## Azspiracid Shellfish Toxins



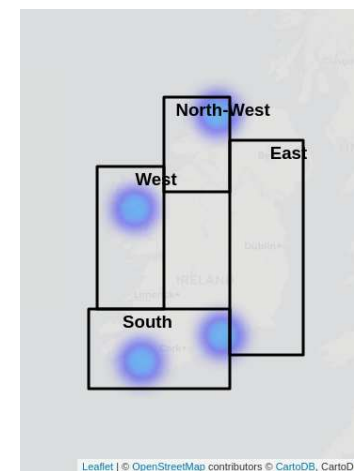
Toxic Sites	0
Analysed Sites	38

## Amnesic Shellfish Toxins



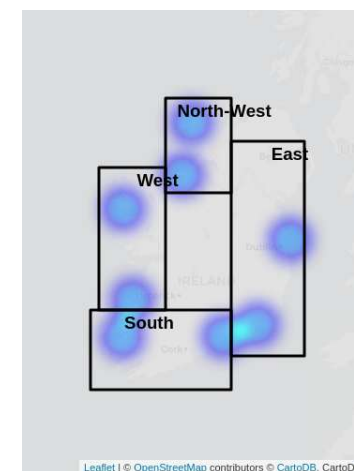
Toxic Sites	4
Analysed Sites	36

## Paralytic Shellfish Toxins



Toxic Sites	0
Analysed Sites	8

## Yessotoxins



Toxic Sites	0
Analysed Sites	38

AST: (Amnesic shellfish toxin) Strong growth rate in SW, consistent with seasonal historic trend & there are now closures with this seasonal toxin. Pattern would indicate high caution advised within the next few weeks if cell growth continues. Toxin levels rising in related areas. Low to moderate caution in all other areas.

AZA: (Azaspiracid toxin) Low/Medium risk. Azadinium spp. counts indicate presence and spread of potential cells on all coasts. Caution advised.

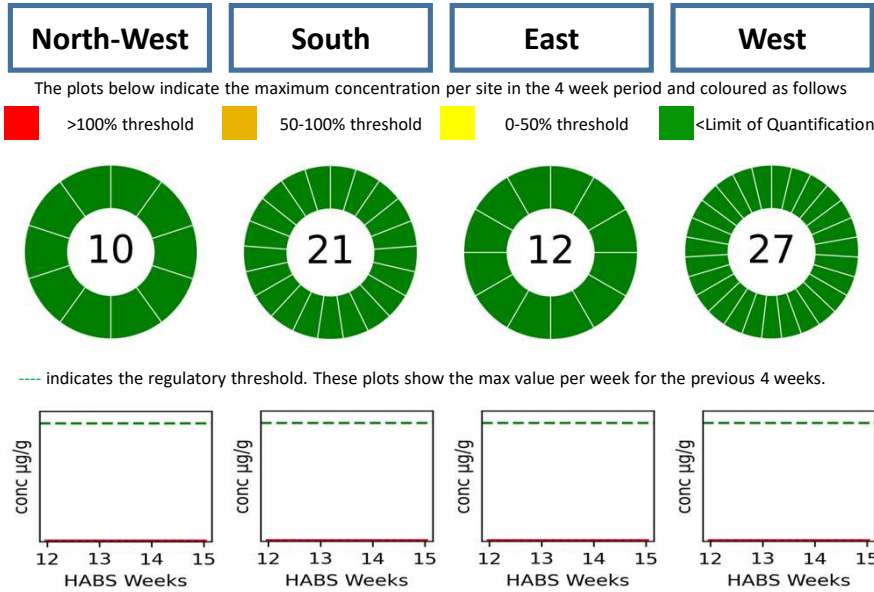
DST: (Dinophysis shellfish toxin) Low risk generally.

PST: (Paralytic shellfish toxins) Low risk generally.

# Diarhetic Shellfish Toxins & *Dinophysis* species

Regional 4-Week Trends 15/03/26 - 11/04/26

In this 4 week period there were 157 Samples tested for DST. These samples were collected at 70 Sites around the country. Resulting in 0 Site(s) with values above the regulatory limit of 0.16 µg/g

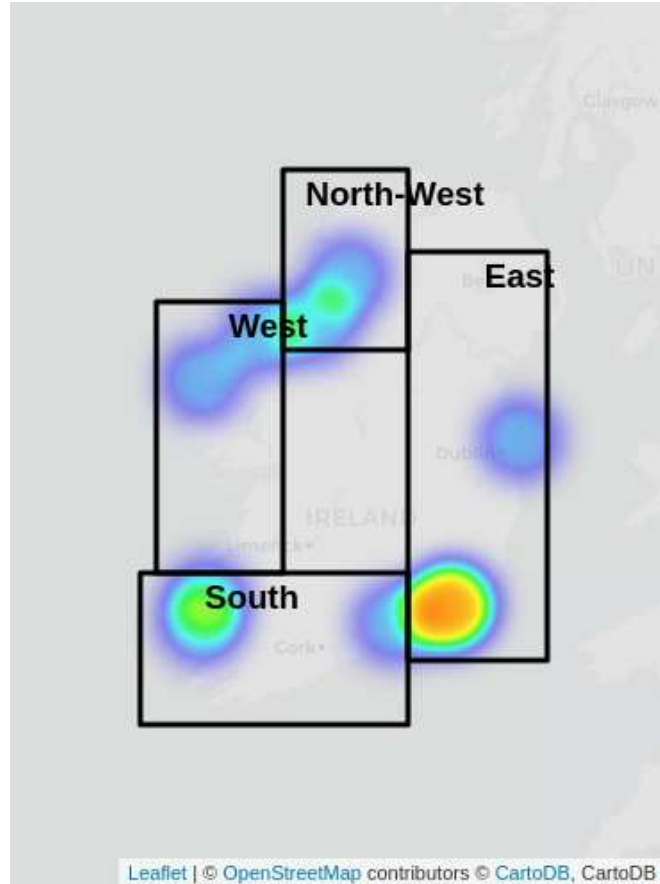


Risk: **Low**      **Low**      **Low**      **Low**

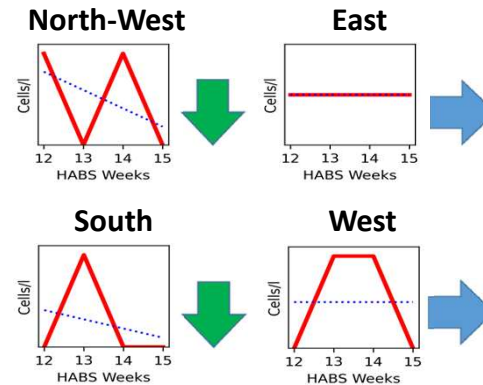
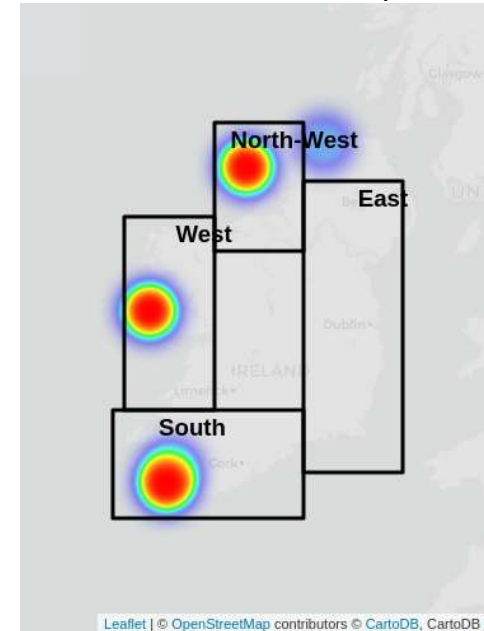
Trend:               

Risk:  
Low Risk & less likely to increase dramatically at this time.

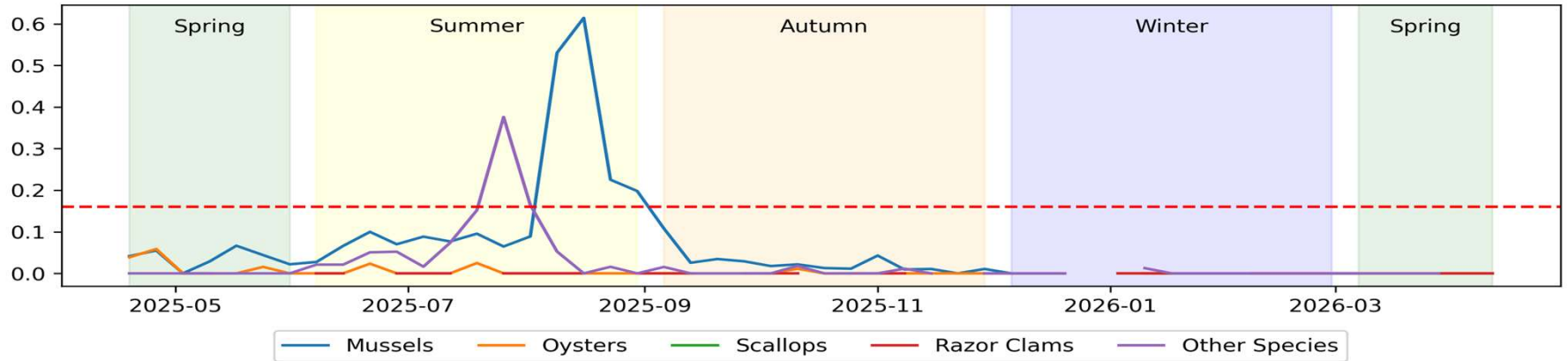
## Diarhetic Shellfish Toxins National 4-Week Heatmap



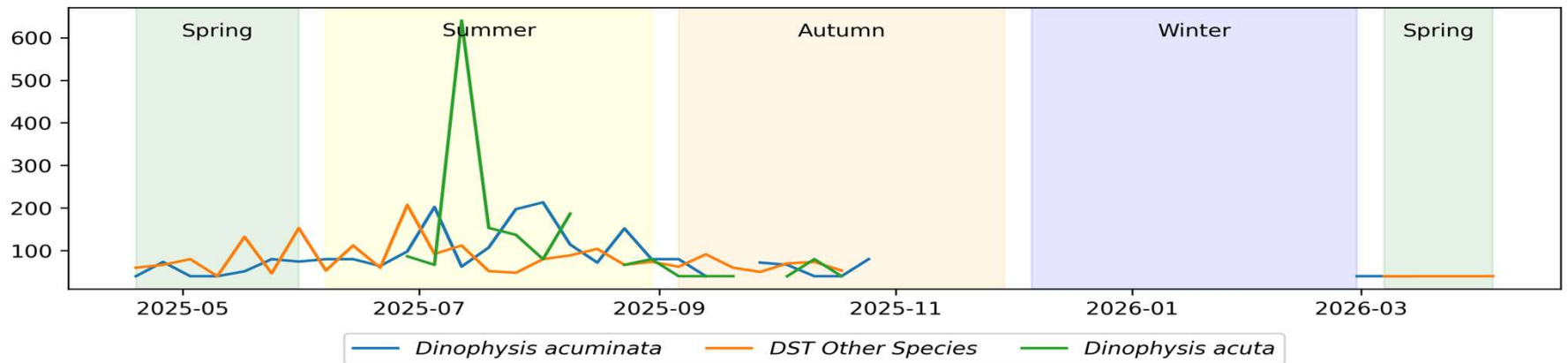
## Phytoplankton *Dinophysis* spp. 4 Week Heatmap



Trend of Maximum Toxin concentrations in Shellfish Species (measured in  $\mu\text{g/g}$ )



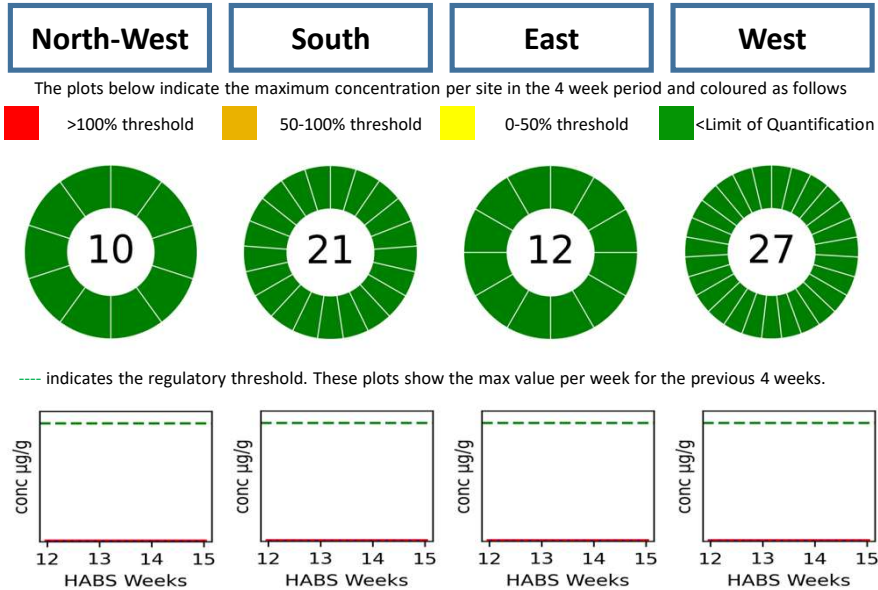
Trend of Average Counts of Toxin Causing PhytoPlankton Species Per Week (measured in Cells per Litre)



# Azspiracid Shellfish Toxins & *Azadinium* species

Regional 4-Week Trends 15/03/26 - 11/04/26

In this 4 week period there were 157 Samples tested for AZT. These samples were collected at 70 Sites around the country. Resulting in 0 Site(s) with values above the regulatory limit of 0.16 µg/g



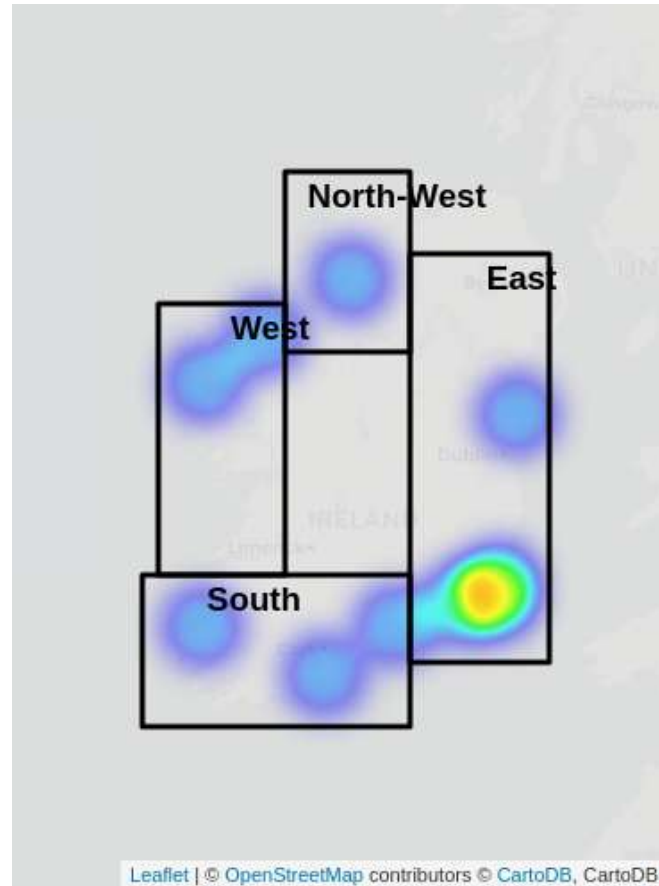
Risk: **Low**      **Low**      **Low**      **Low**

Trend:               

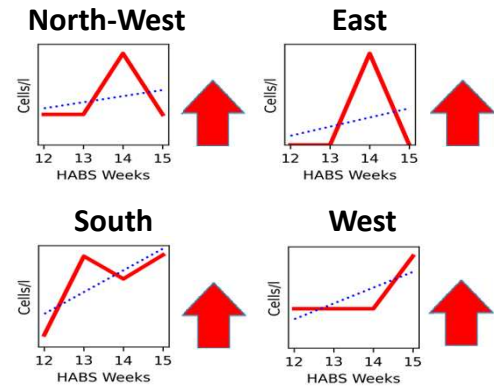
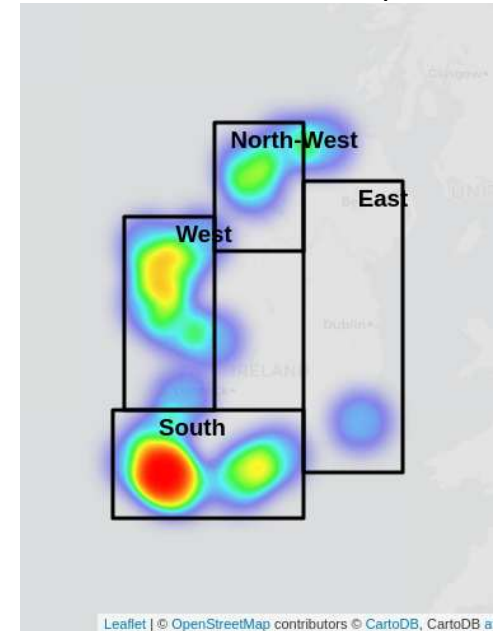
Risk:

Low risk *Azadinium* spp. counts indicate presence and spread of potential cells on all coasts. Caution advised.

## Azspiracid Shellfish Toxins National 4-Week Heatmap



## Phytoplankton *Azadinium* spp. 4 Week Heatmap

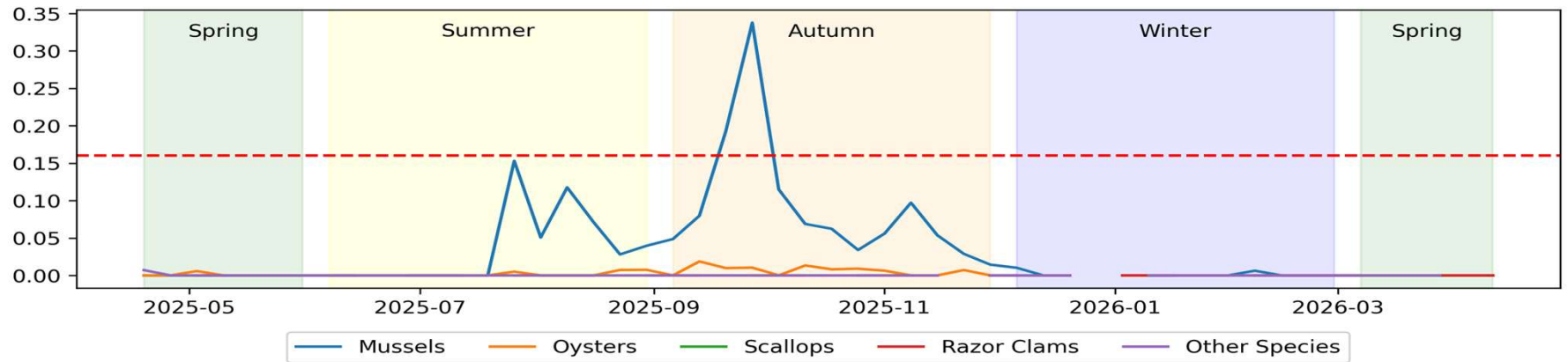


# Azaspiracid Shellfish Toxins & Azadinium species

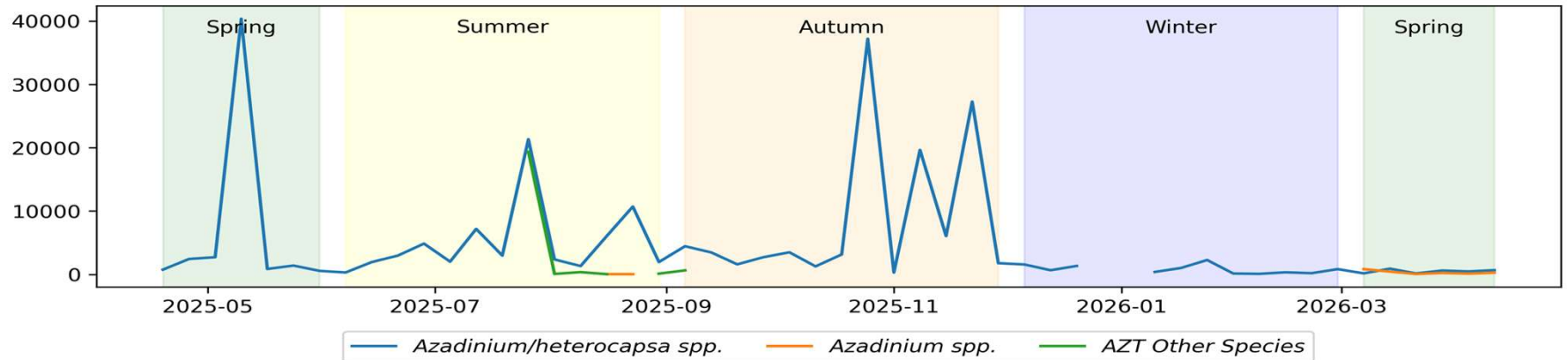
National Yearly Trend 12/04/25 - 11/04/26



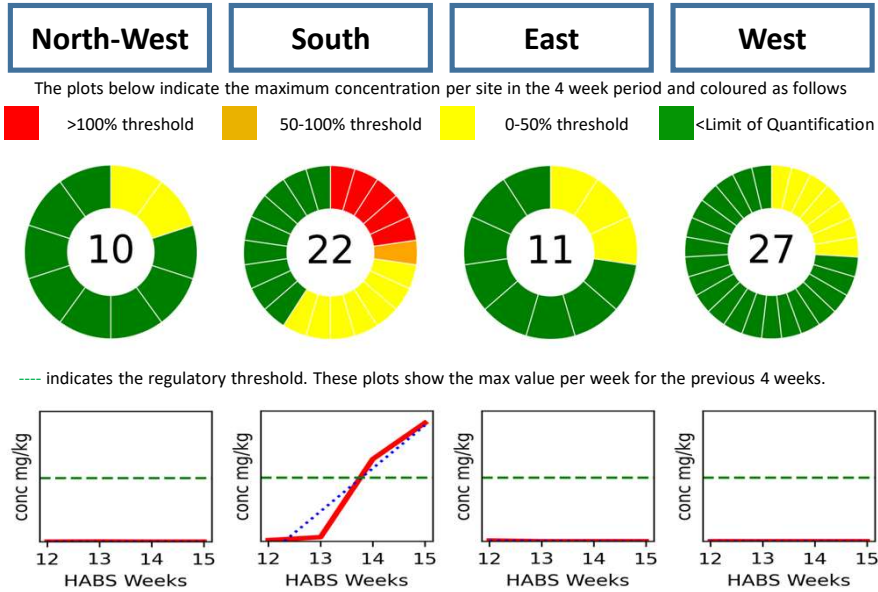
Trend of Maximum Toxin concentrations in Shellfish Species (measured in  $\mu\text{g/g}$ )



Trend of Average Counts of Toxin Causing PhytoPlankton Species Per Week (measured in Cells per Litre)



In this 4 week period there were 161 Samples tested for AST. These samples were collected at 70 Sites around the country. Resulting in 5 Site(s) with values above the regulatory limit of 20.0 mg/kg



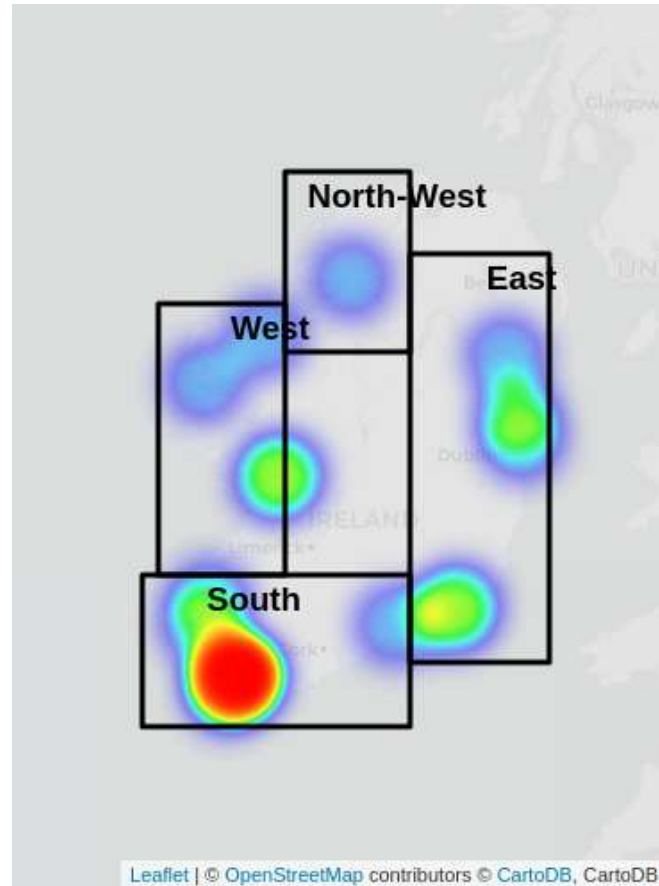
Risk: **Low**      **Medium**      **Low**      **Low**

Trend:               

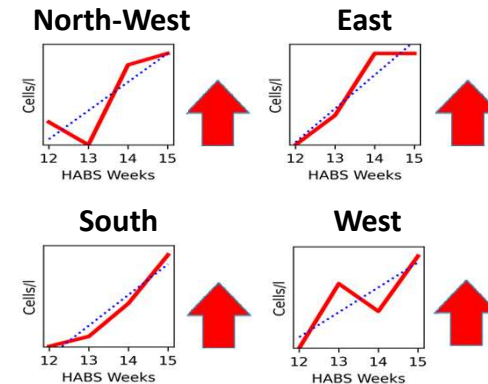
**High Risk:**

*Pseudo nitzschia* species are now causing seasonal toxin closure issues in Bantry bay sites. This situation would not be expected to resolve this week and all adjacent sites should maintain highest vigilance. Further increase in activity in specific areas in SW. Associated toxins increasing. High SW caution and low to moderate elsewhere.

## Amnesic Shellfish Toxins National 4-Week Heatmap



## Phytoplankton *Pseudo-nitzschia* spp. 4 Week Heatmap

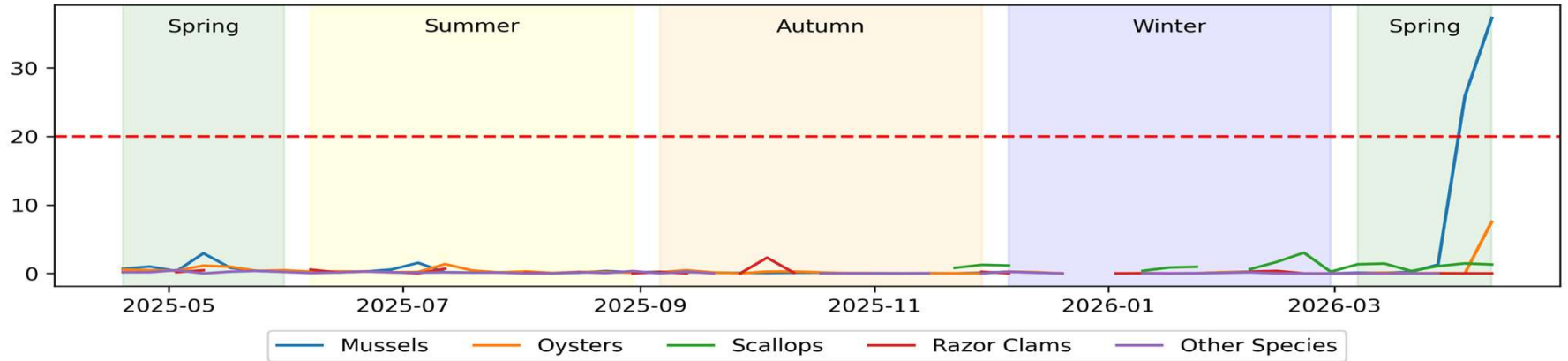


# Amnesic Shellfish Toxins & *Pseudo-nitzschia* species

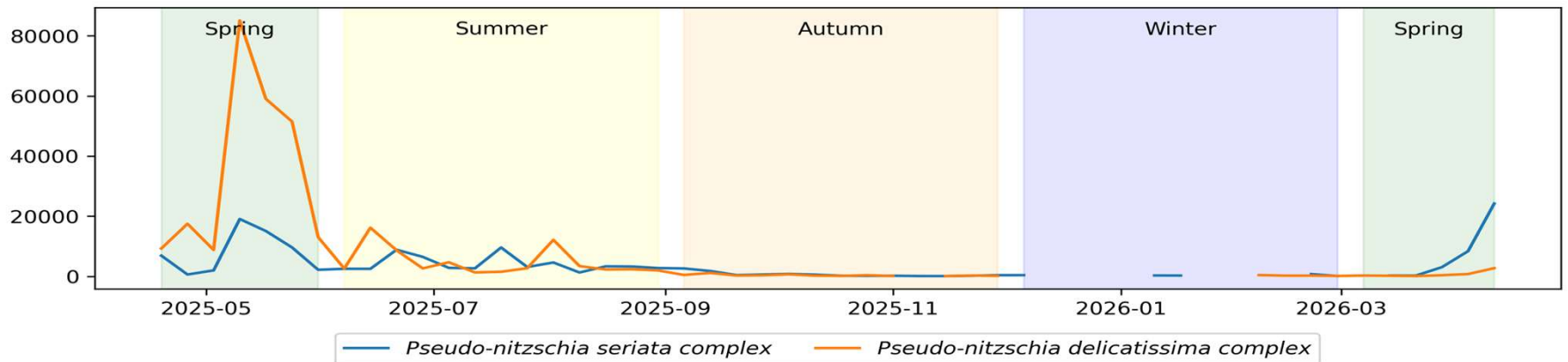
National Yearly Trend 12/04/25 - 11/04/26



Trend of Maximum Toxin concentrations in Shellfish Species (measured in mg/kg)



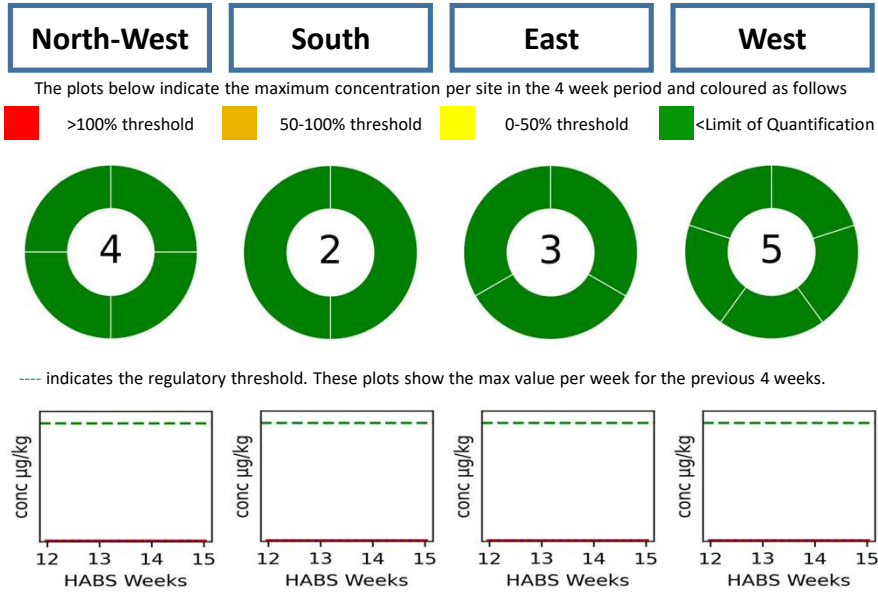
Trend of Average Counts of Toxin Causing Phytoplankton Species Per Week (measured in Cells per Litre)



# Paralytic Shellfish Toxins & *Alexandrium* species

Regional 4-Week Trends 15/03/26 - 11/04/26

In this 4 week period there were 15 Samples tested for PST. These samples were collected at 14 Sites around the country. Resulting in 0 Site(s) with values above the regulatory limit of 800.0 µg/kg

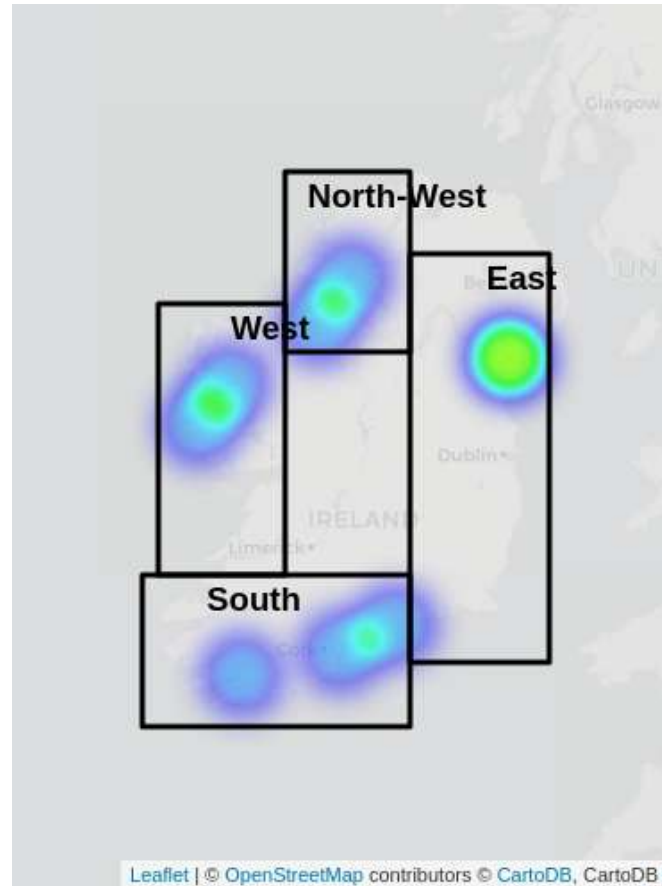


Risk: **Low**      **Low**      **Low**      **Low**

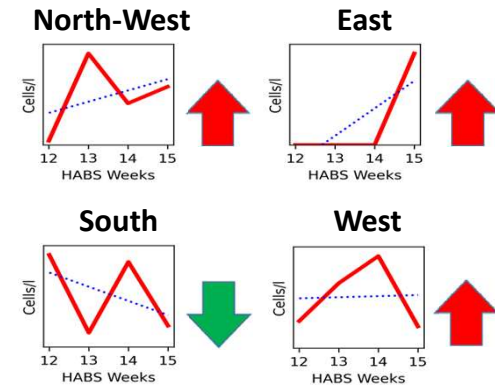
Trend:               

Risk:  
Low Risk & less likely to increase dramatically at this time.

## Paralytic Shellfish Toxins National 4-Week Heatmap



## Phytoplankton *Alexandrium* spp. 4 Week Heatmap

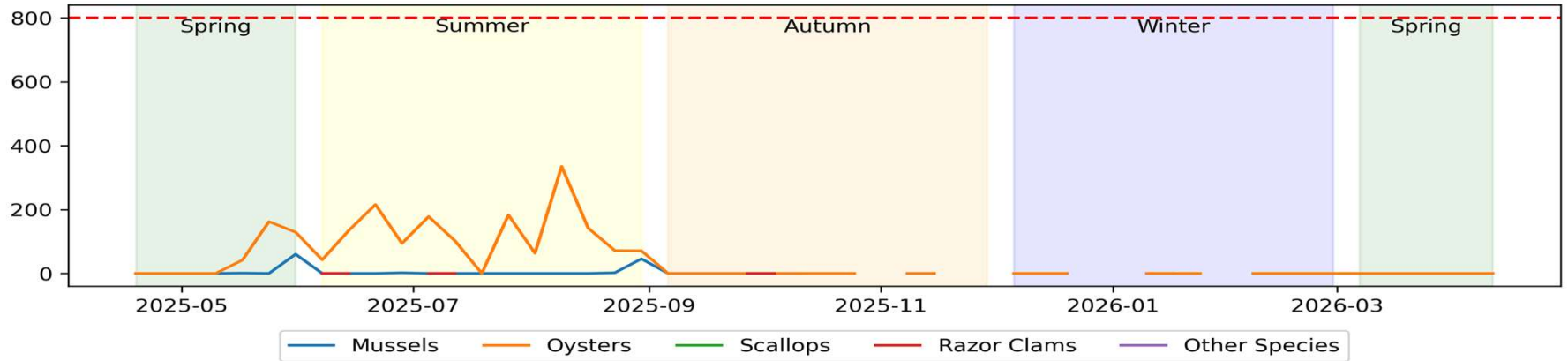


# Paralytic Shellfish Toxins & *Alexandrium* species

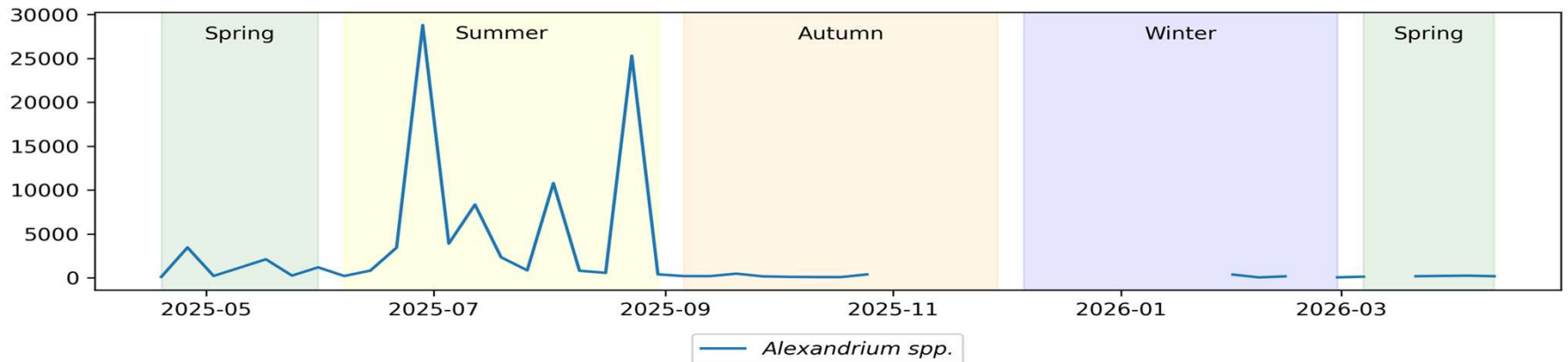
National Yearly Trend 12/04/25 - 11/04/26

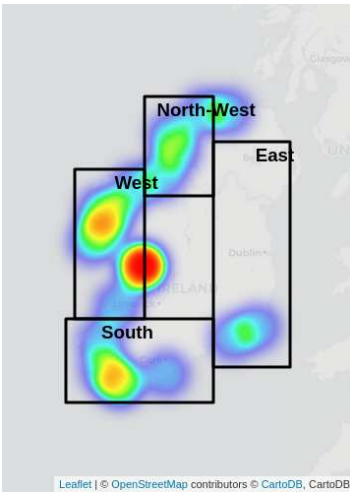


Trend of Maximum Toxin concentrations in Shellfish Species (measured in  $\mu\text{g}/\text{kg}$ )

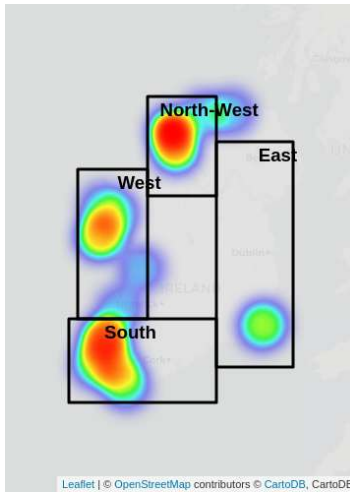


Trend of Average Counts of Toxin Causing Phytoplankton Species Per Week (measured in Cells per Litre)

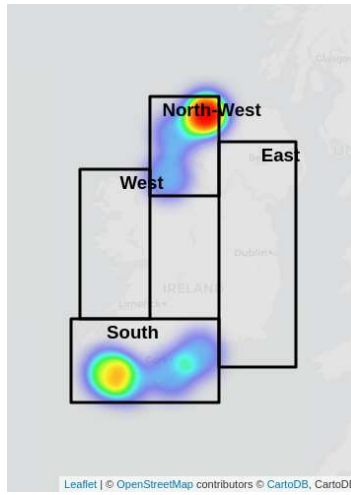




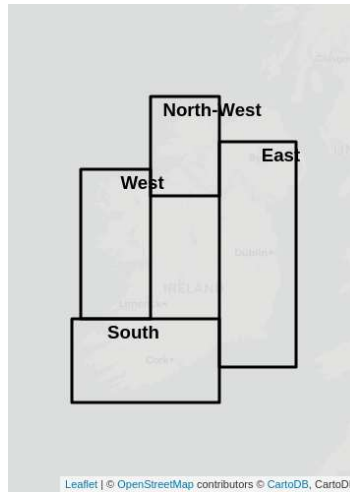
*Heterocapsa sp.*



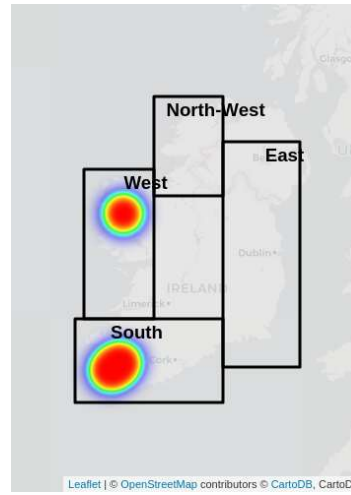
*Alexandrium sp.*



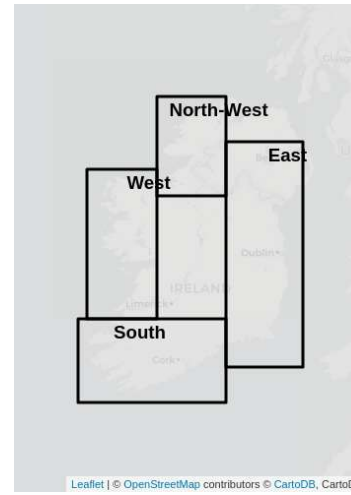
*Coscinodiscus sp.*



*Phaeocystis sp.*



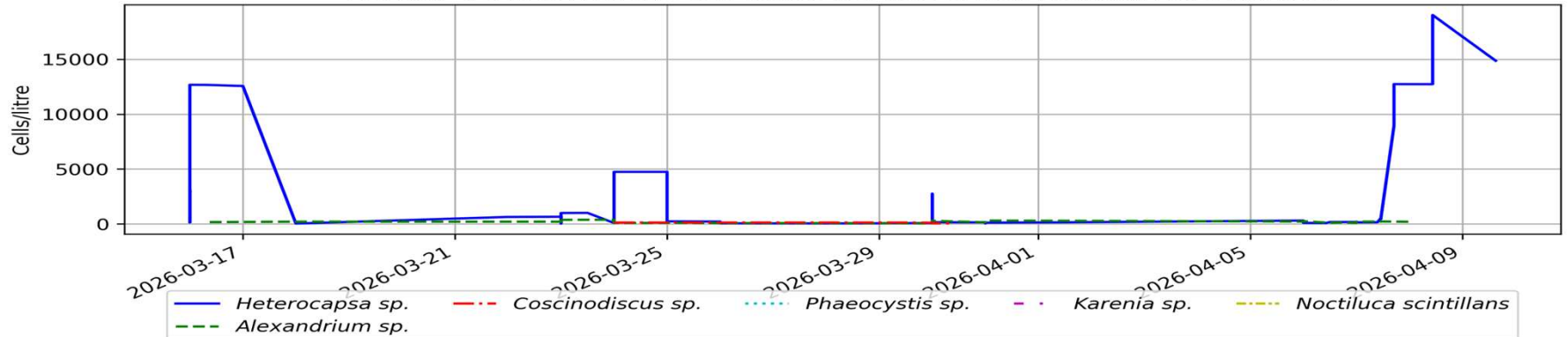
*Karenia sp.*



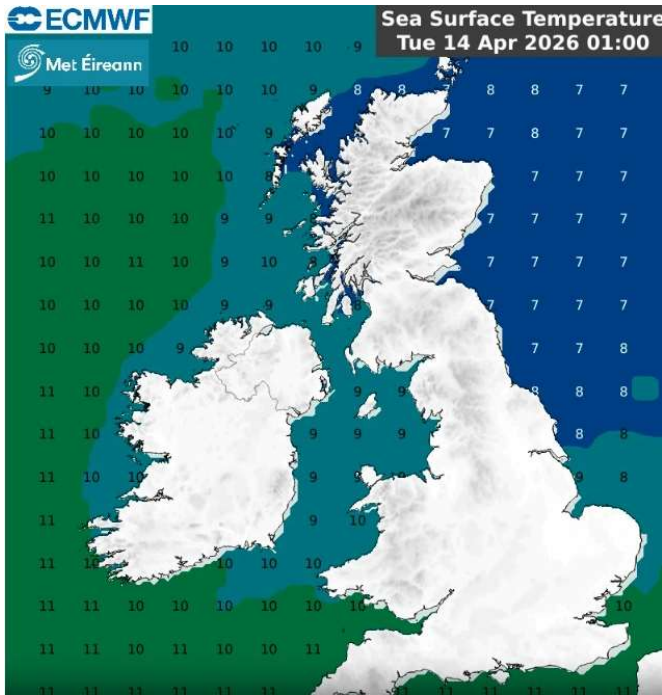
*Noctiluca Scintillans*

Phytoplankton cell levels are in line with this time of the year. Offshore Sea water temperatures & light levels are increasing as we move into Spring. Offshore transportation potential higher likelihood of occurrence as insitu risk levels of HABs growth increasing significantly. Any Phytoplankton species at sufficient numbers may cause temporary issues in water quality which could impact specific areas over the course of a tidal cycle or for a period of days while specific suitable conditions prevail. Please note some blooms can occur rapidly and acutely. If concerned about a problematic or toxic species level please check specific site information updates at [www.marine.ie](http://www.marine.ie).

Monthly Trend of Average Cell counts per litre of Fish Harming Phytoplankton



Sea Surface Temperature (°C)



Chlorophyll Concentrations (mg/m3)



Sea water temperatures still cool but warmer waters indicated in offshore areas with onshore movements & light levels increasing as we move into Spring. *Pseudo-nitzschia* spp levels are increasing and quantifiable levels of ASP have been observed in the Southwest with closures in some Bantry Bay sites. Mixed dominance of diatom phytoplankton species present. Please check specific area information for local activity.

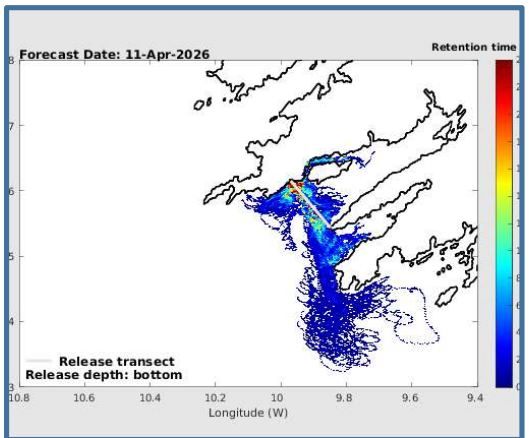
Marine Institute Data Buoy – Temperature Data



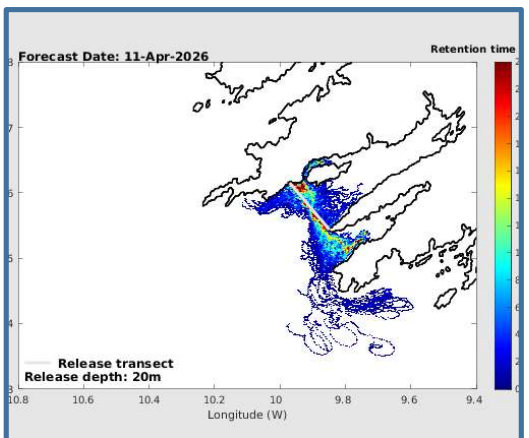
- M4: No buoy data available this week
- SW Coast (M3) Average SST of 10.89 Celcius: Decrease of -0.17 Celcius over the historic Weekly Average
- SE Coast (M5) Average SST of 10.1 Celcius: Increase of 0.26 Celcius over the historic Weekly Average

The maps show the **most likely transport pathways for the next 3 days of phytoplankton** found along the **presented transects** (black lines off Mizen Head and the Mouth of Bantry Bay) and **water depths** (bottom, 20 metres and surface).

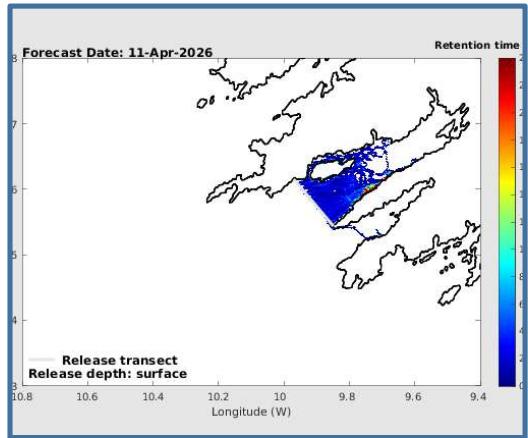
**Reddish colours represent areas where phytoplankton remain longest.** **Cooler colours represent areas where phytoplankton remain for shorter periods**



Bottom water

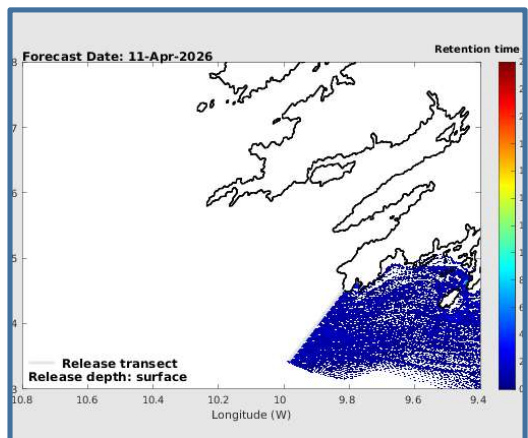
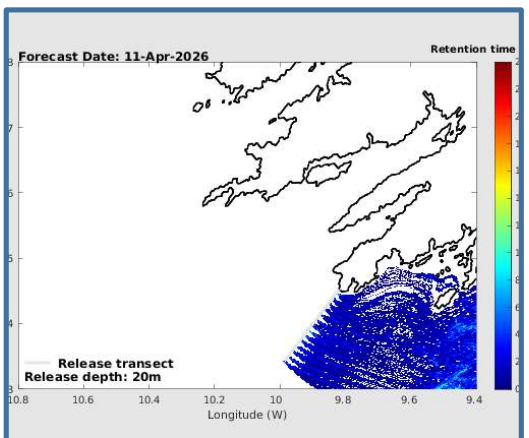
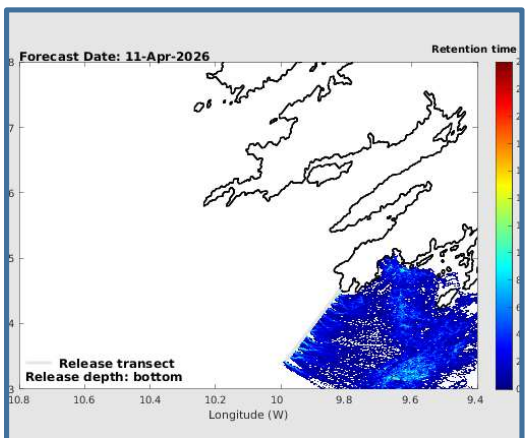


Water @ 20 metres

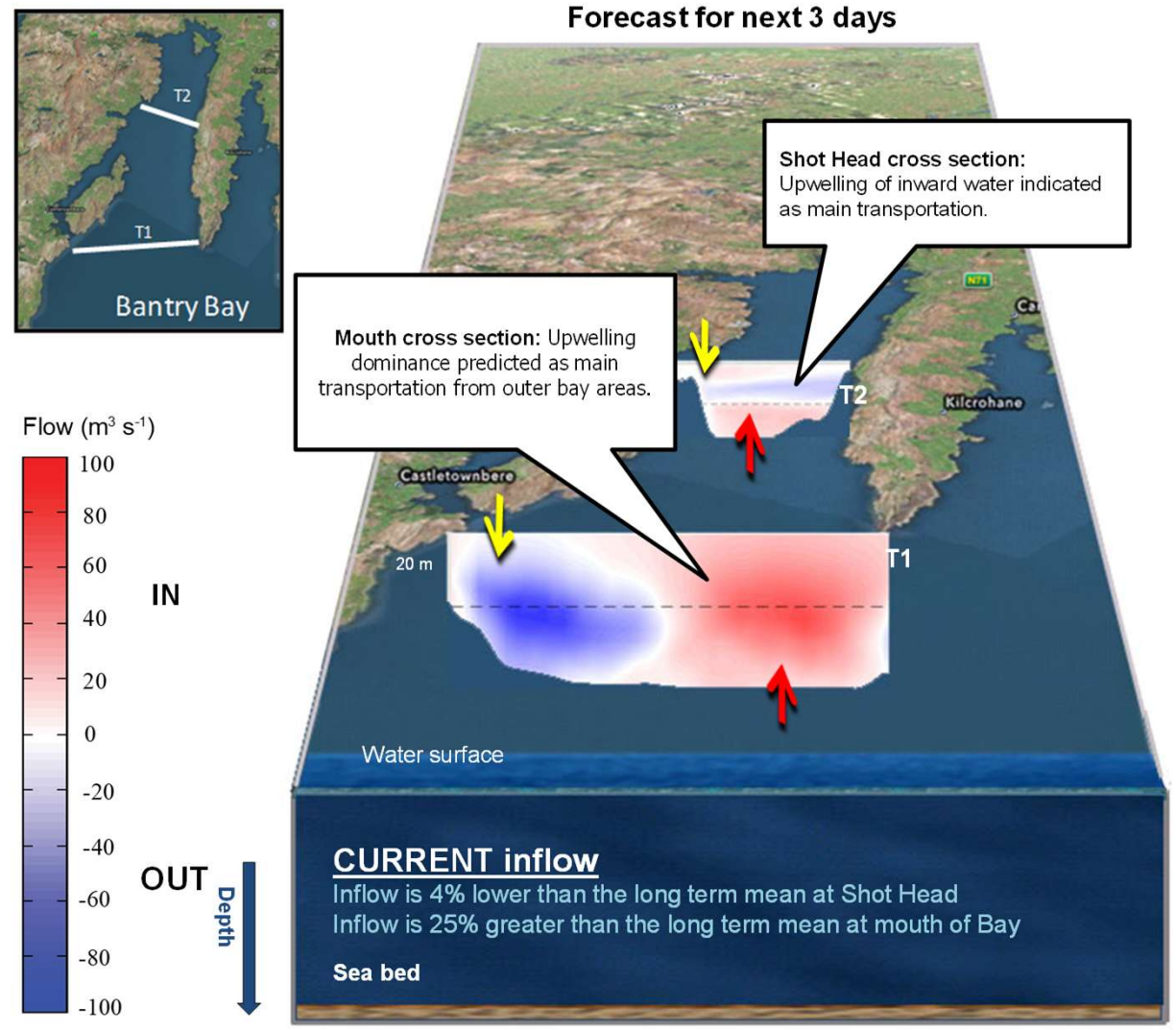


Surface water

**Mouth of Bantry Bay:**  
Southerly water movements into all depths remains.

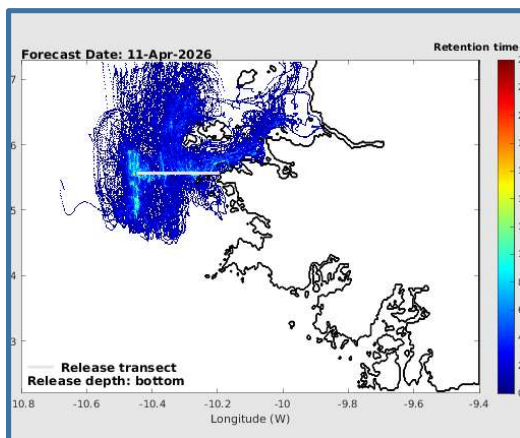


**Mizen Head:**  
Change over to Southerly water movements stay at all depths.

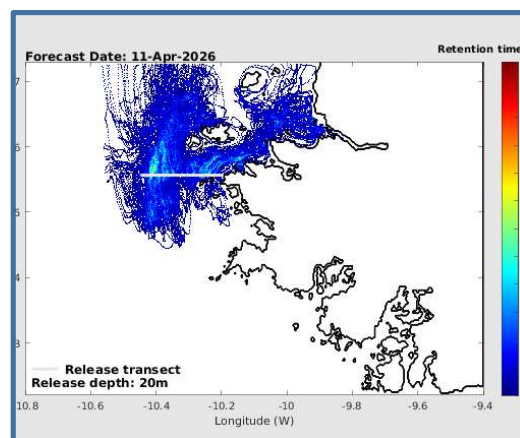


The maps show the **most likely transport pathways for the next 3 days of phytoplankton** found along the **presented transects** i.e. white lines off Aughrus Point and the Mouth of Killary Harbour, and **water depths** (bottom, 20 metres and surface).

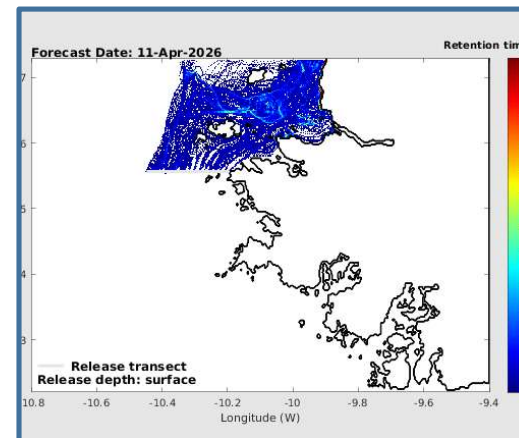
**Reddish colours represent areas where phytoplankton remain longest.** **Cooler colours represent areas where phytoplankton remain for shorter periods**



Bottom water



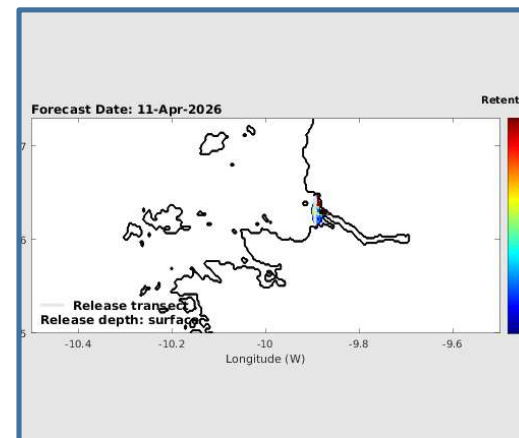
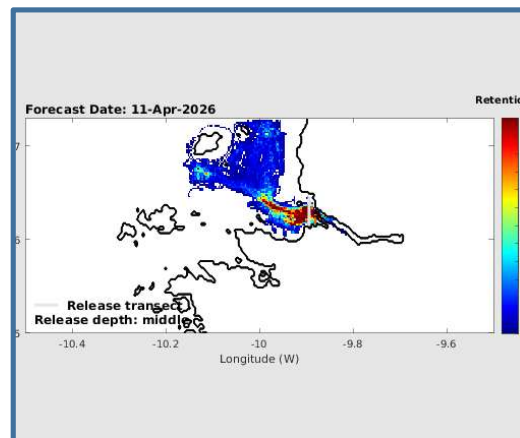
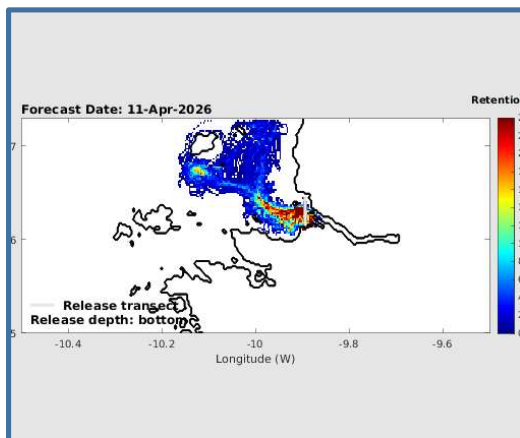
Water @ 20 metres



Surface water

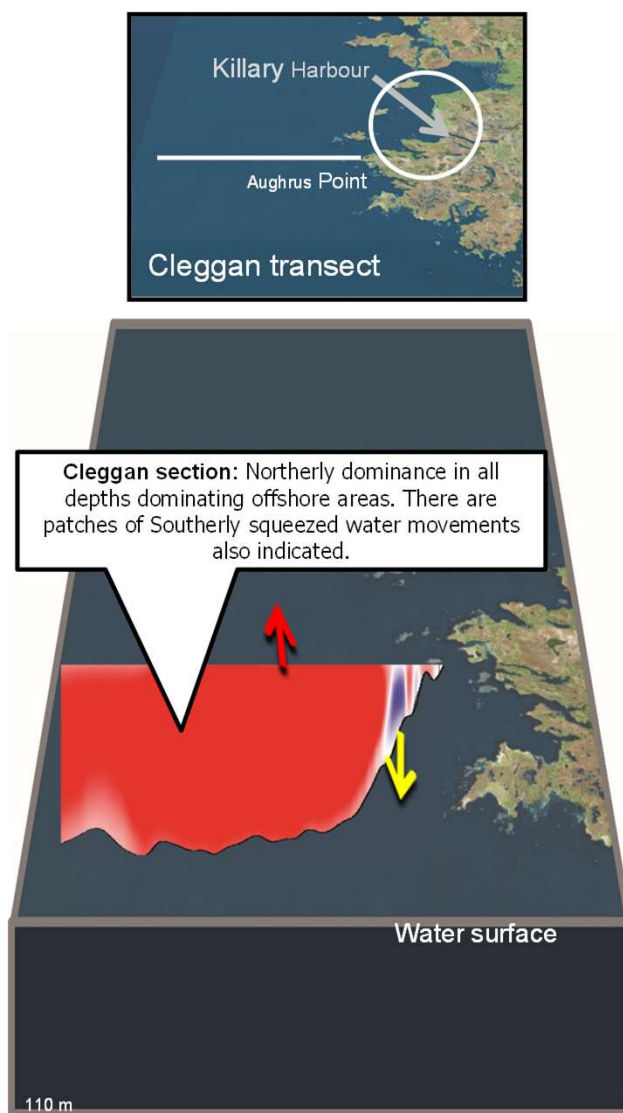
### Cleggan

- Northerly water movements dominate at all depths.

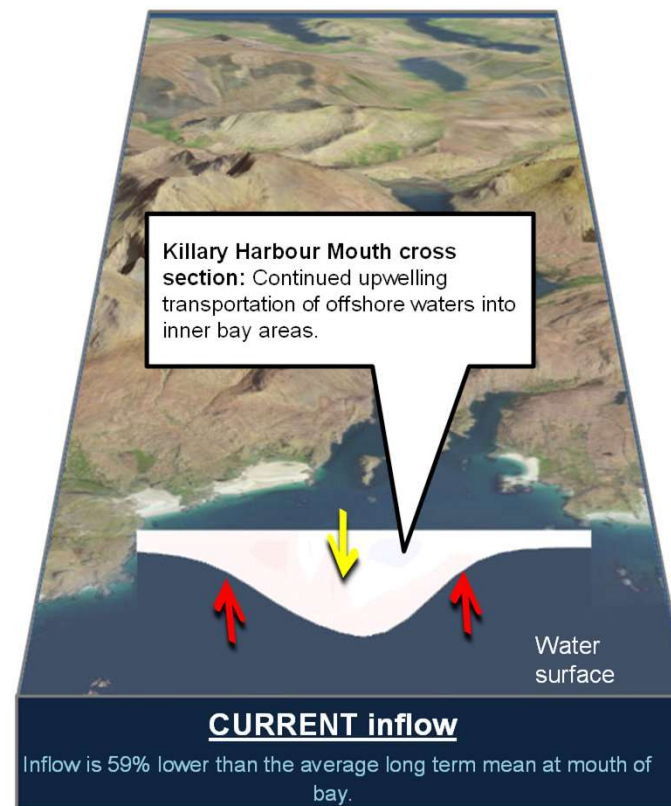
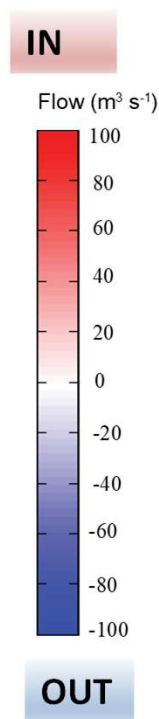


### Killary

- Upwelling of offshore water remains as main inshore transportation.



Forecast for next 3 days



Depth ↓



Have a question? Please email us [habs@marine.ie](mailto:habs@marine.ie)

This Harmful Algal Blooms (HAB) Bulletin aims to provide a short (3-5 day) predictive forecast on the likelihood of the onset of a HAB event occurring/continuing in a region. The data provided for the compilation of this report is derived from a number of sources comprising of in-situ, remote sensing and hydrodynamic modelling datasets. For the latest and historical biotoxin and phytoplankton results for aquaculture production areas please visit <https://webapps.marine.ie/habs>

#### In-situ Data

- Biotoxin and Phytoplankton data is provided by National Monitoring Programmes from the HABs database (Marine Institute)
- Heat map images – Leaflet.

#### Remote Sensing Data

- Sea Surface Temperature Data Product: SST\_NWS\_SST\_L4\_NRT\_OBSERVATIONS\_010\_003 (ODYESSA L4 SST from Copernicus CMEMS MCS).
- Chlorophyll image data is provided by:EUR-L4-CHL-ATL-v01 (IFREMER/ DYNECO and CERSAT).
- Sea Surface Temperature observations: Irish weather buoy network (Marine Institute).

#### Hydrodynamic modelled data

- Particle Tracking Simulation data: The downscale models of areas of particular interest (Bantry Bay, Killary Harbour and Cleggan Bay) incorporate online particle tracking with virtual particles released at pre-defined transects at the start of each model. The operational model produces an estimate of the ocean state once a week and a daily 3-day forecast of the dominant regional physical processes that result in water exchange events between the bay and its adjacent shelf (Marine Institute).
- Hydrodynamic model data: Hydrodynamic nowcast/forecast models show the latest 3-day volumetric flux forecast for vertical transects at the mouth and mid-bay. The results are plotted graphically on a map of the area.

#### Definitions

- A toxic site is defined as a site that had at least 1 result in the time period indicated greater than the regulatory limit.
- Heat maps represent relative distribution and patterns, and should not be interpreted as indicative of the maximum or absolute concentrations of a toxin in a region.
- Risk levels are calculated based on internal logic applied to measurements captured over the period, along with any additional information available to the evaluator. These risk levels are to be regarded as advisory only.
- Trends are calculated based on average or maximum values per week over the period of time and the slope of the line connecting these points.

#### Disclaimers

The predictions and comments produced within this bulletin are based on our expert opinion on the datasets and sources as outlined above. The Marine Institute cannot accept any responsibility for business and risk management decisions on harvesting and husbandry based on this report.

#### Acknowledgements

Funding for the development of this bulletin version has been provided by Interreg Atlantic Area Project: PRIMROSE (Predicting the Impact of Regional Scale events on the Aquaculture Sector) EPA 182/2106