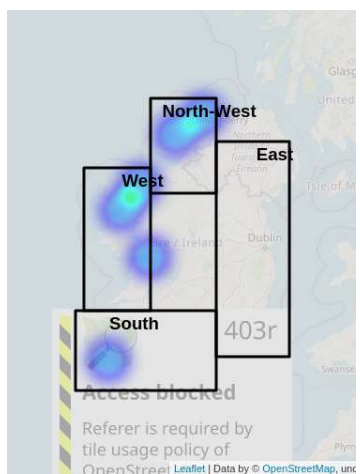
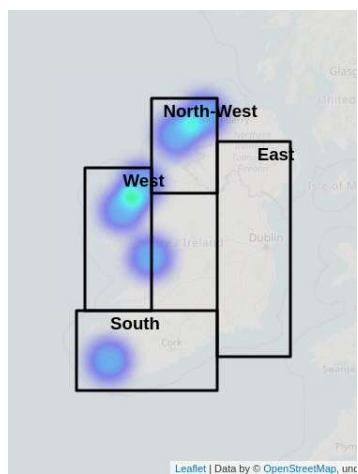


Diarrhetic Shellfish Toxins



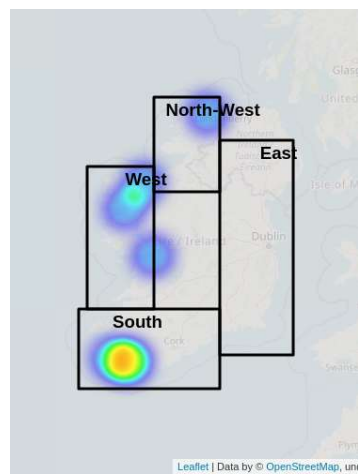
Toxic Sites	0
Analysed Sites	27

Azspiracid Shellfish Toxins



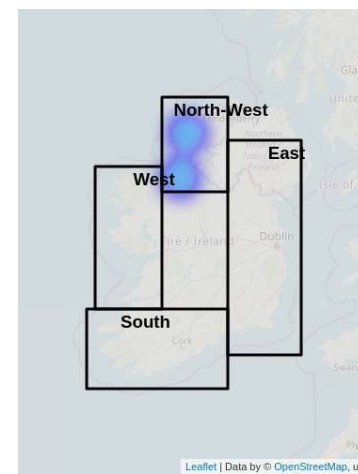
Toxic Sites	0
Analysed Sites	27

Amnesic Shellfish Toxins



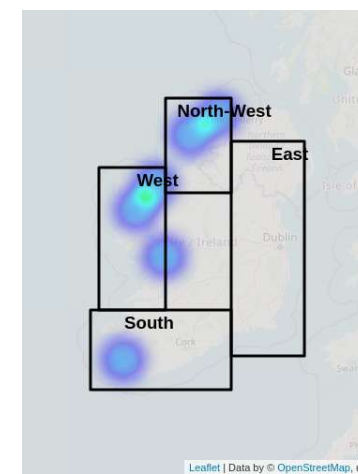
Toxic Sites	0
Analysed Sites	27

Paralytic Shellfish Toxins



Toxic Sites	0
Analysed Sites	2

Yessotoxins



Toxic Sites	0
Analysed Sites	27

AST: (Amnesic shellfish toxin) Seasonal phytoplankton rising levels, expected to continue related to suitable conditions developing. Low risk generally.

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

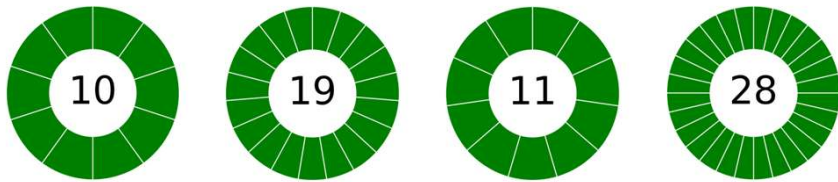
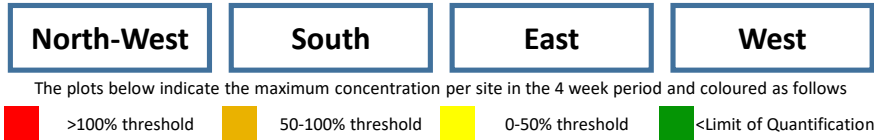
DST: (Dinophysis shellfish toxin) Low risk generally.

PST: (Paralytic shellfish toxins) Low risk generally.

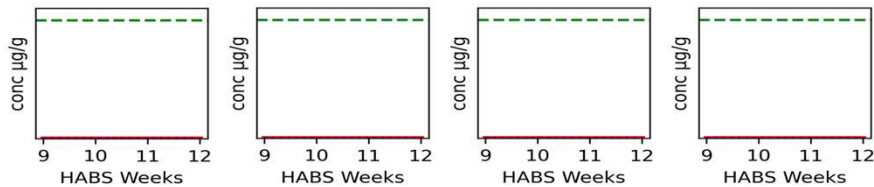
Diarhetic Shellfish Toxins & *Dinophysis* species

Regional 4-Week Trends 22/02/26 - 21/03/26

In this 4 week period there were 142 Samples tested for DST. These samples were collected at 68 Sites around the country. Resulting in 0 Site(s) with values above the regulatory limit of 0.16 µg/g



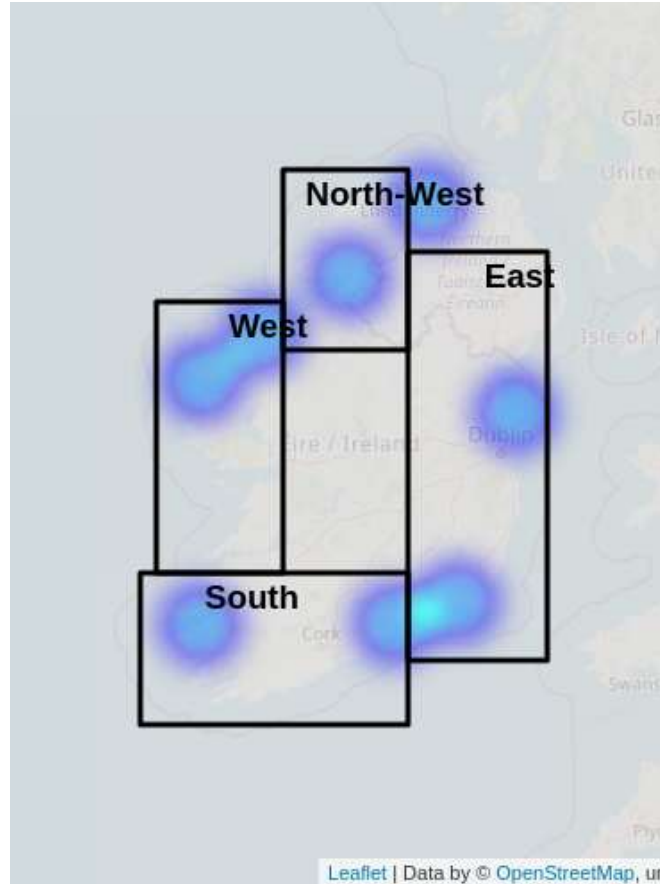
--- indicates the regulatory threshold. These plots show the max value per week for the previous 4 weeks.



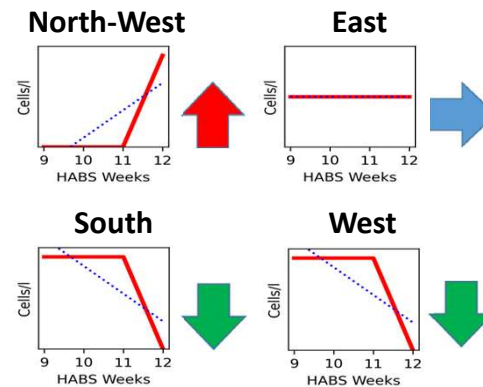
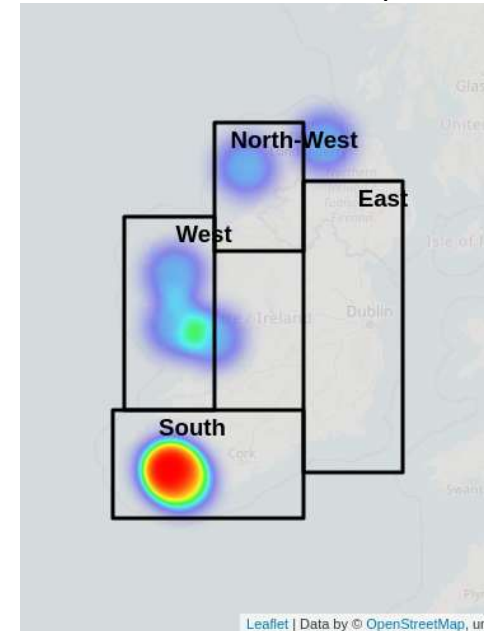
Risk: **Low** **Low** **Low** **Low**
 Trend:

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

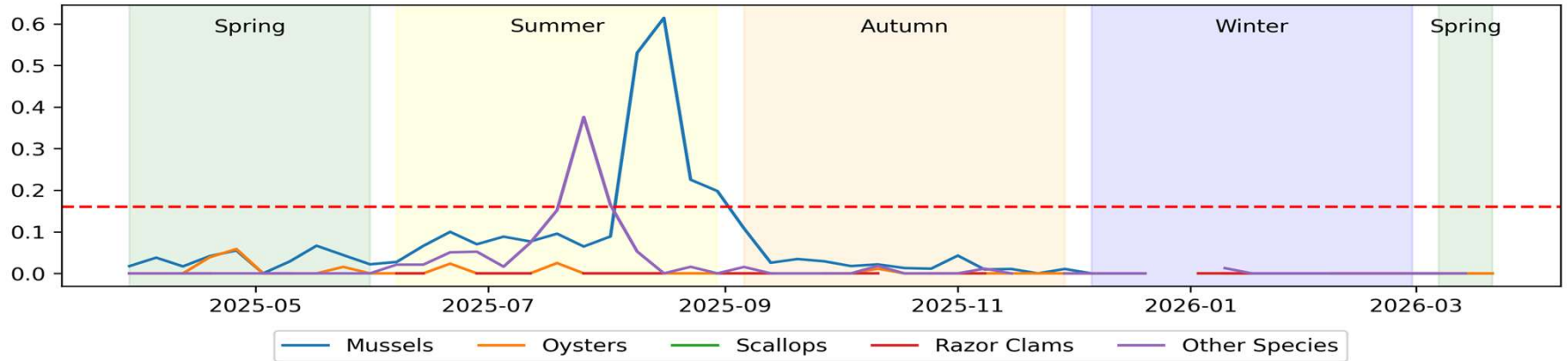
Diarhetic Shellfish Toxins National 4-Week Heatmap



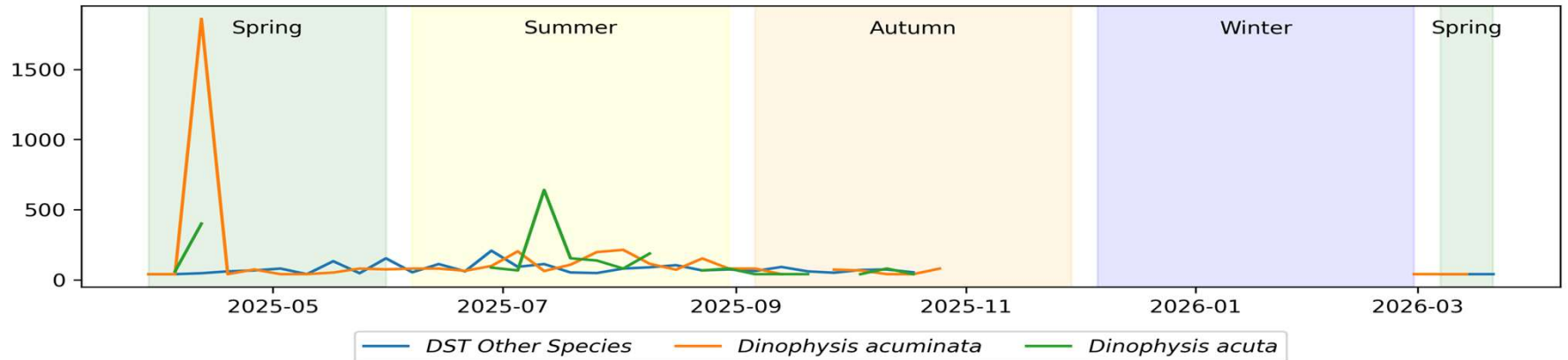
Phytoplankton *Dinophysis* spp. 4 Week Heatmap



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



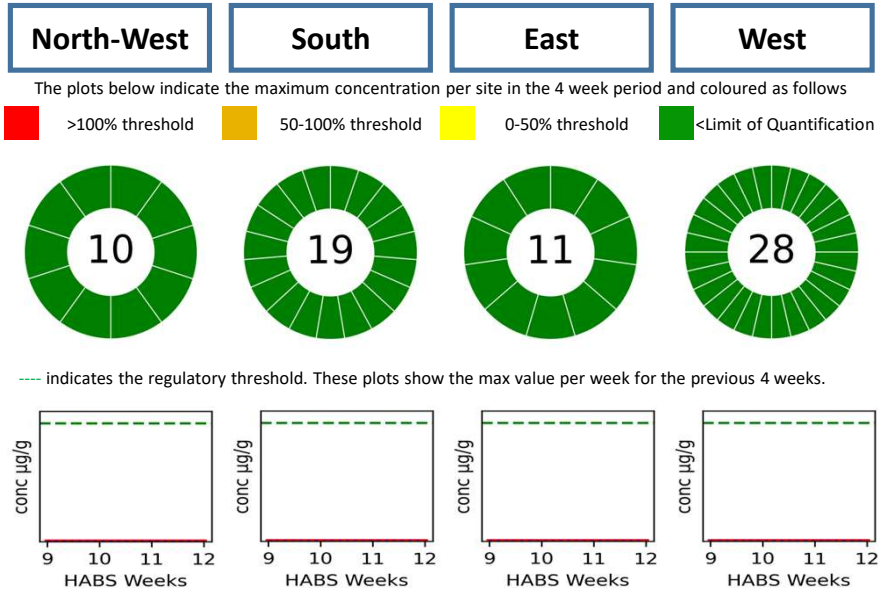
Trend of Average Counts of Toxin Causing PhytoPlankton Species Per Week (measured in Cells per Litre)



Azspiracid Shellfish Toxins & *Azadinium* species

Regional 4-Week Trends 22/02/26 - 21/03/26

In this 4 week period there were 142 Samples tested for AZT. These samples were collected at 68 Sites around the country. Resulting in 0 Site(s) with values above the regulatory limit of 0.16 µg/g



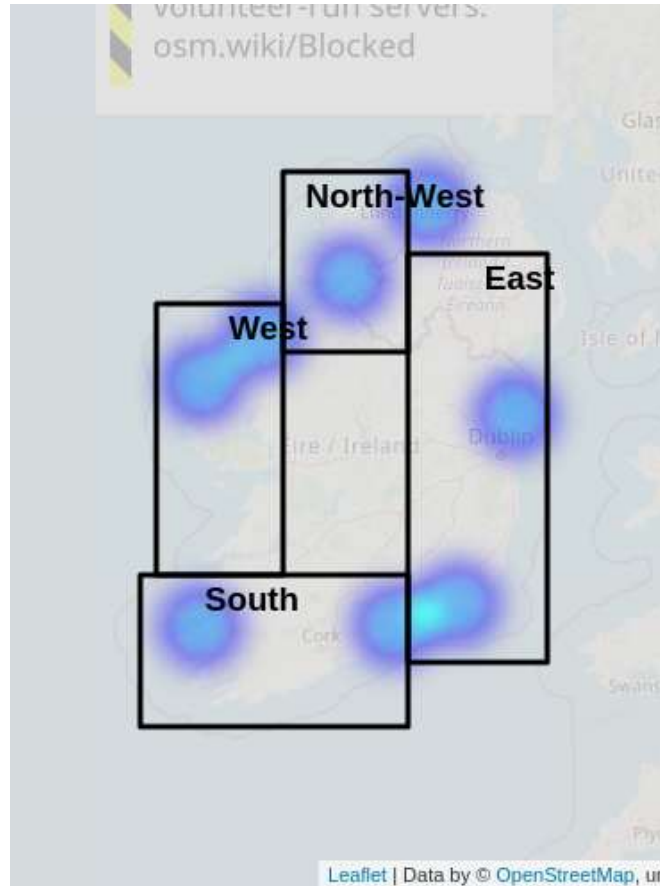
Risk: **Low** **Low** **Low** **Low**

Trend:

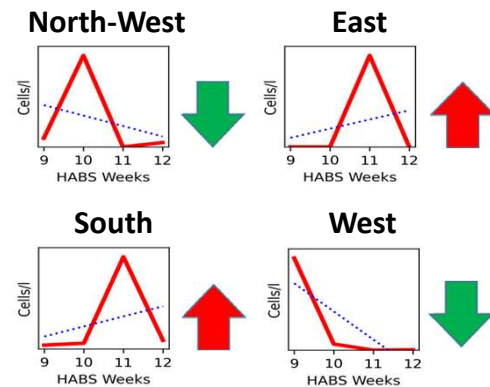
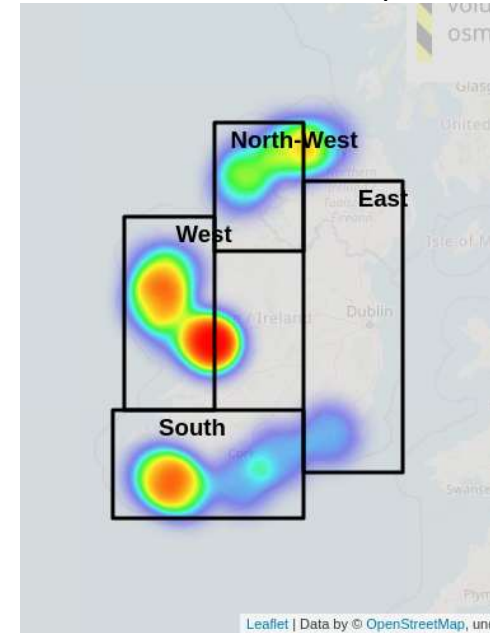
Risk:

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

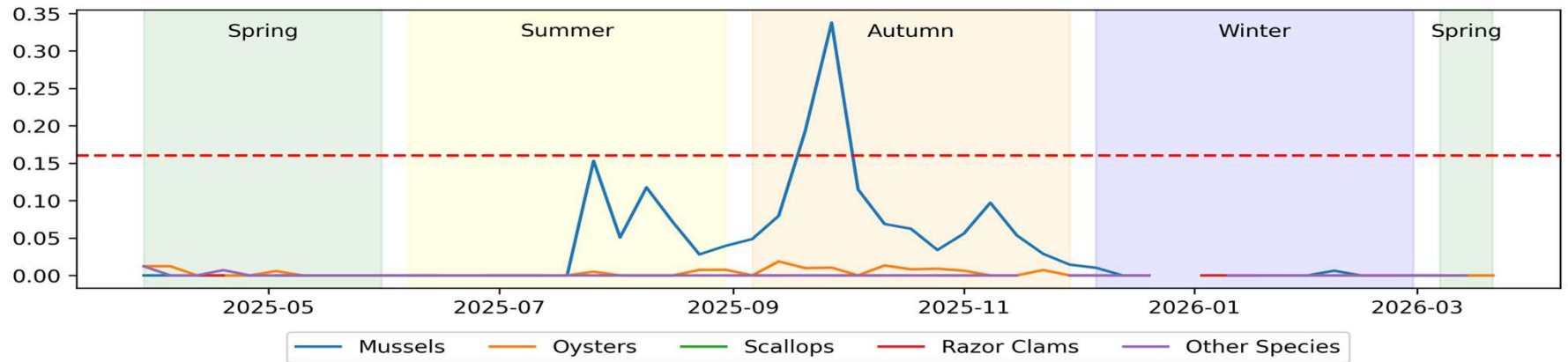
Azspiracid Shellfish Toxins National 4-Week Heatmap



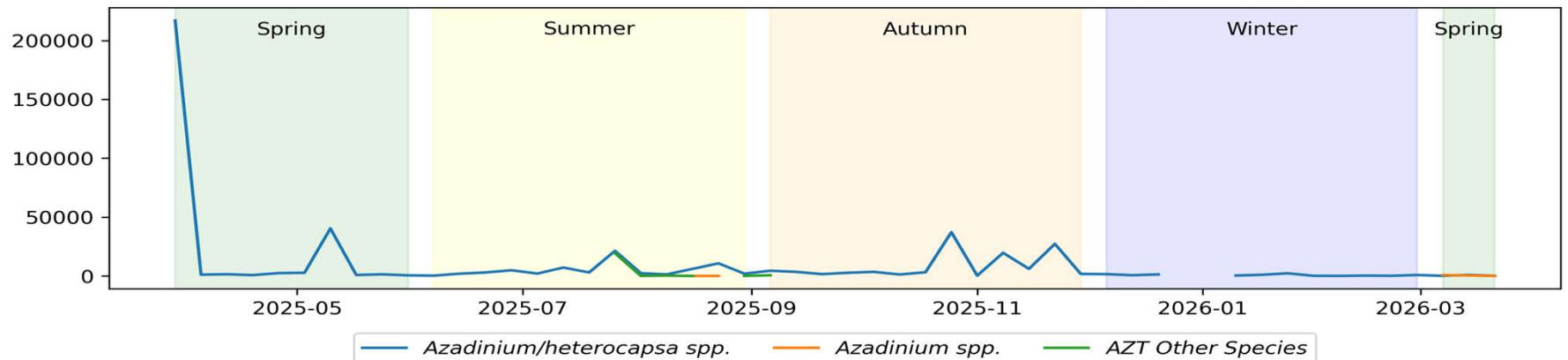
Phytoplankton *Azadinium* spp. 4 Week Heatmap



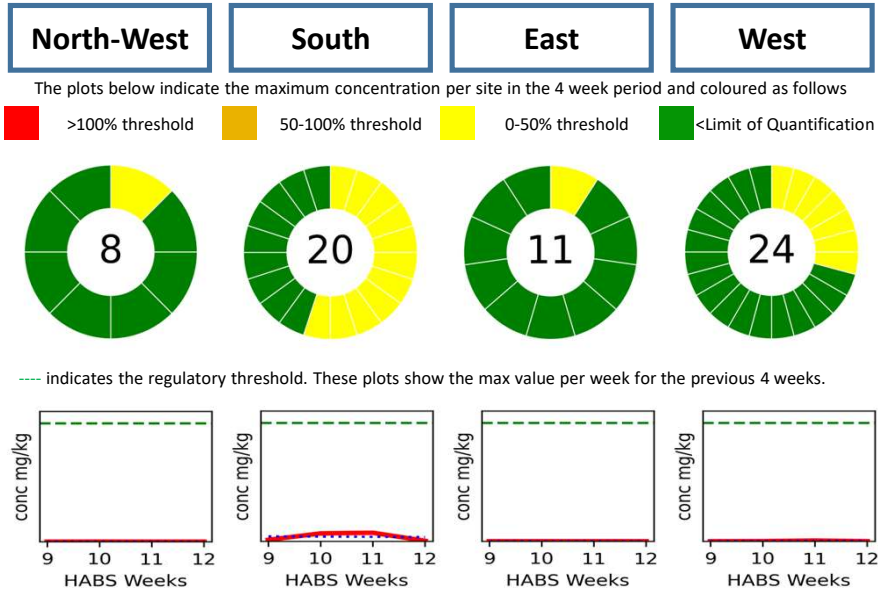
Trend of Maximum Toxin concentrations in Shellfish Species (measured in $\mu\text{g/g}$)



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



In this 4 week period there were 139 Samples tested for AST. These samples were collected at 63 Sites around the country. Resulting in 0 Site(s) with values above the regulatory limit of 20.0 mg/kg

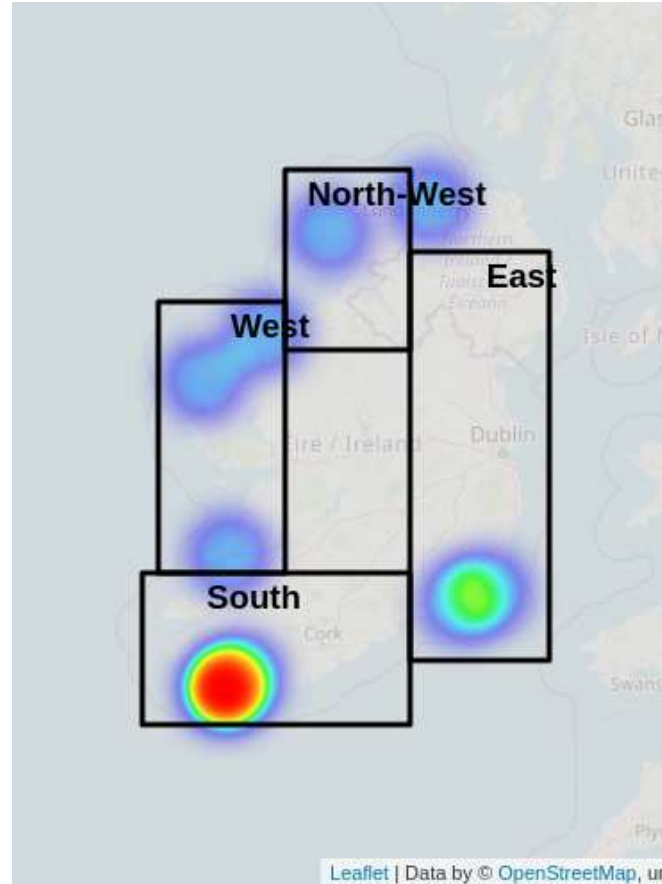


Risk: **Low** **Low** **Low** **Low**

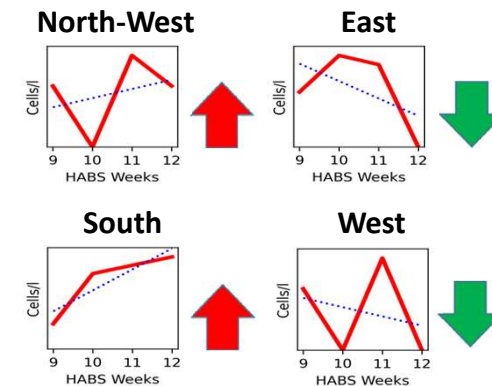
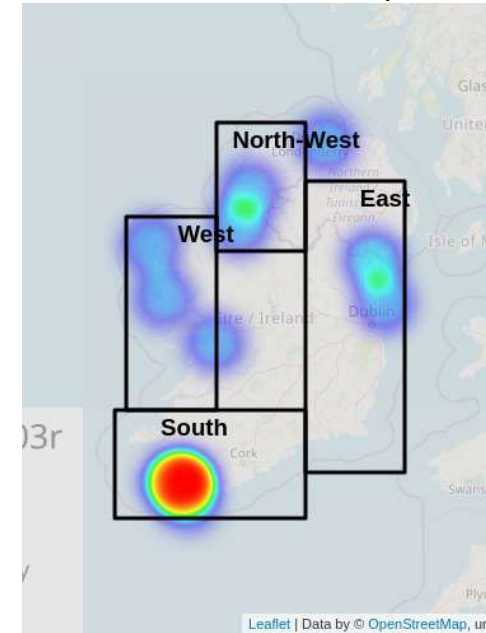
Trend:

Low Risk:
 Low Risk however seasonal phytoplankton levels rising, expected to continue related to suitable conditions developing.

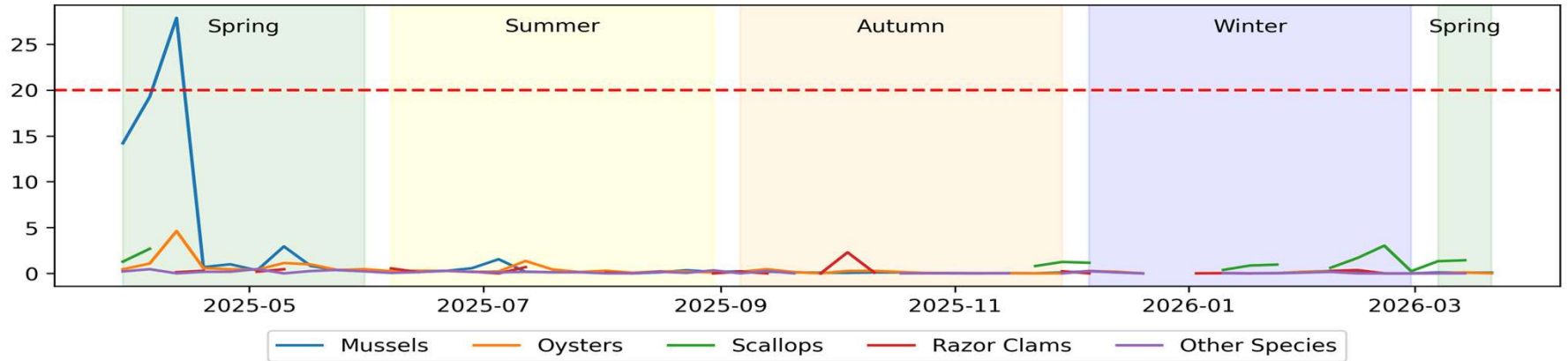
Amnesic Shellfish Toxins National 4-Week Heatmap



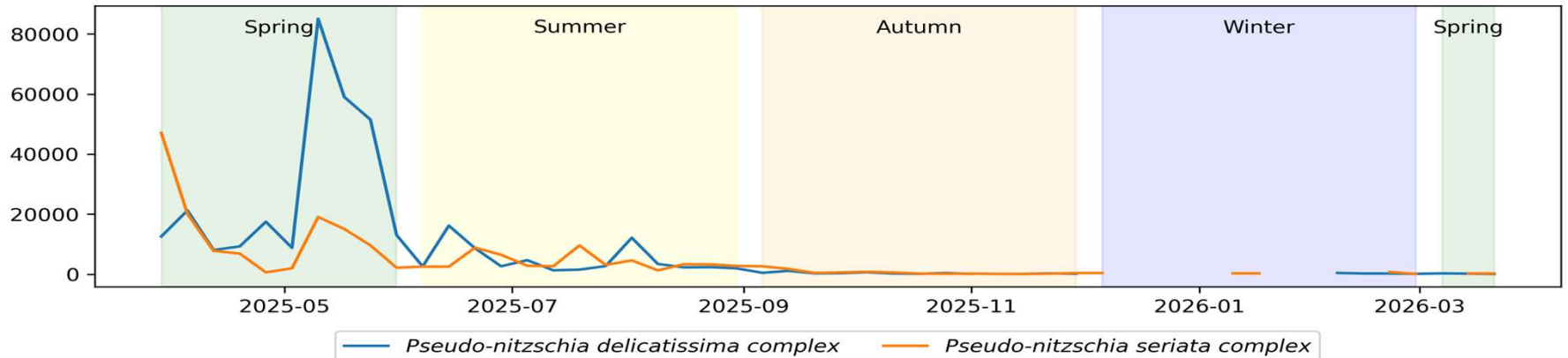
Phytoplankton *Pseudo-nitzschia* spp. 4 Week Heatmap



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



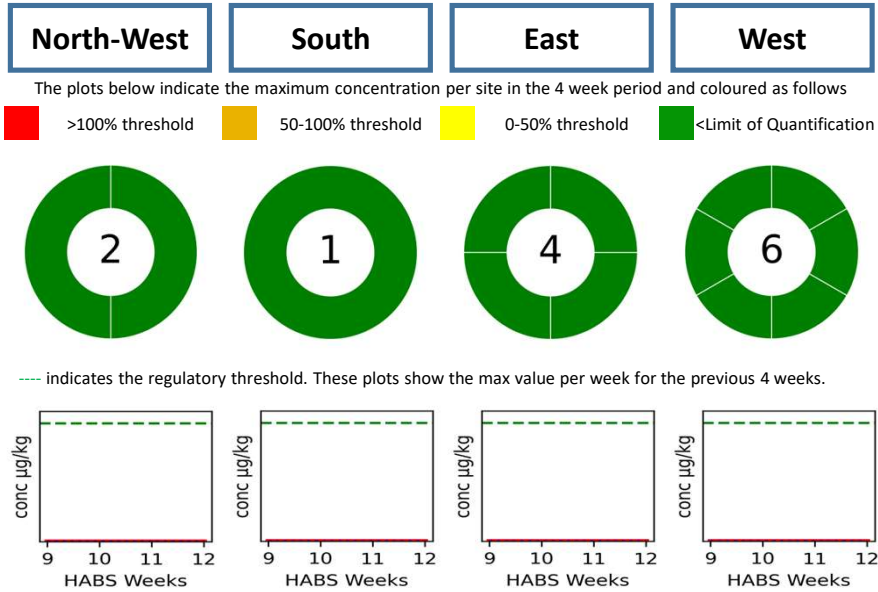
Trend of Average Counts of Toxin Causing PhytoPlankton Species Per Week (measured in Cells per Litre)



Paralytic Shellfish Toxins & *Alexandrium* species

Regional 4-Week Trends 22/02/26 - 21/03/26

In this 4 week period there were 17 Samples tested for PST. These samples were collected at 13 Sites around the country. Resulting in 0 Site(s) with values above the regulatory limit of 800.0 µg/kg

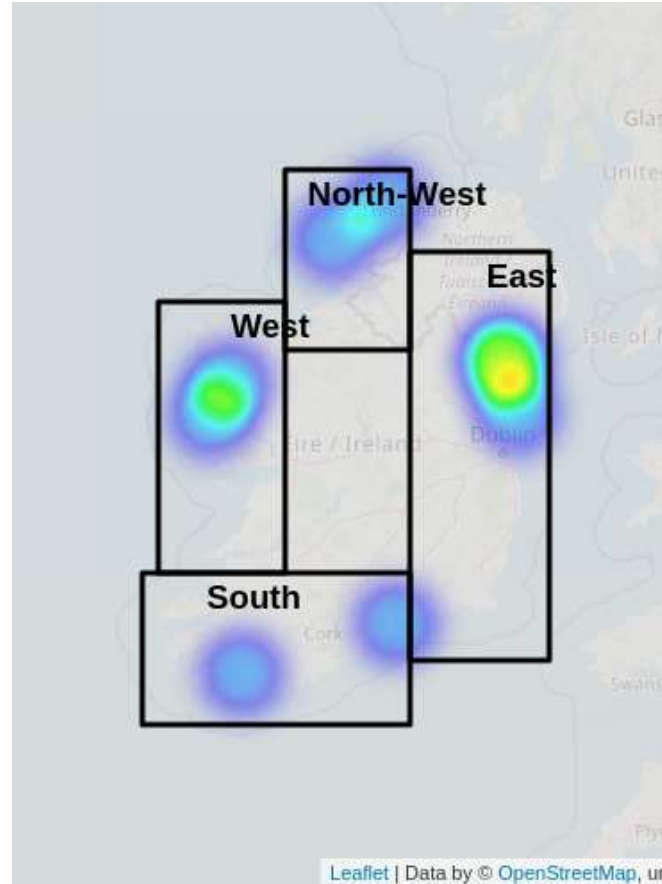


Risk: **Low** **Low** **Low** **Low**

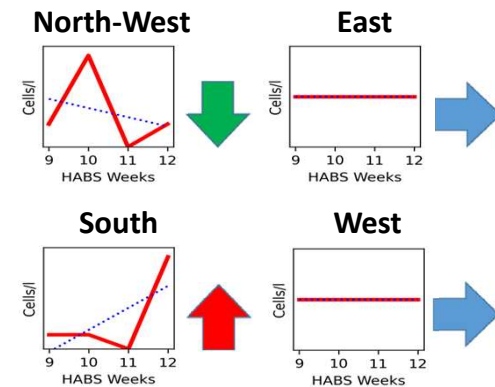
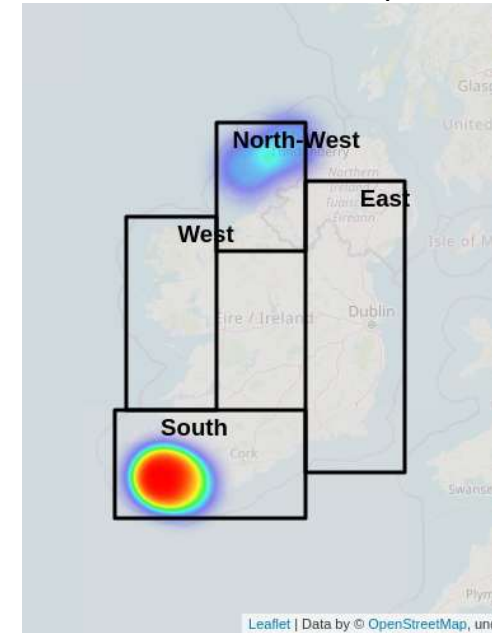
Trend:

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

Paralytic Shellfish Toxins National 4-Week Heatmap



Phytoplankton *Alexandrium* spp. 4 Week Heatmap

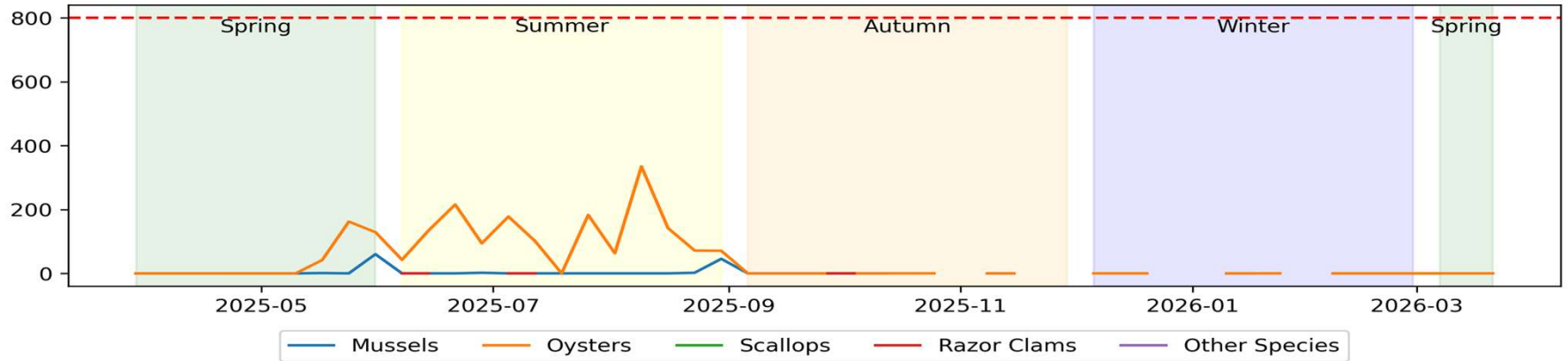


Paralytic Shellfish Toxins & *Alexandrium* species

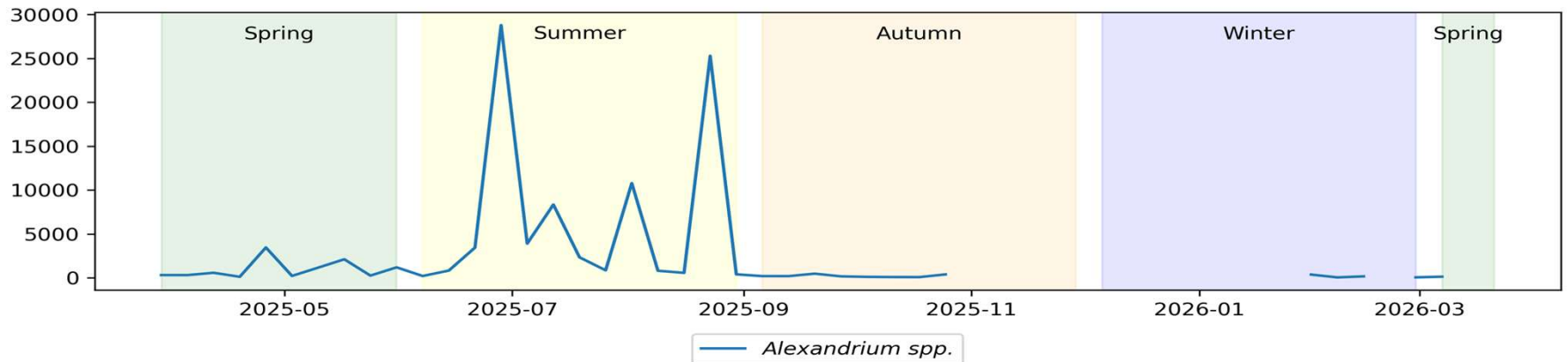
National Yearly Trend 22/03/25 - 21/03/26



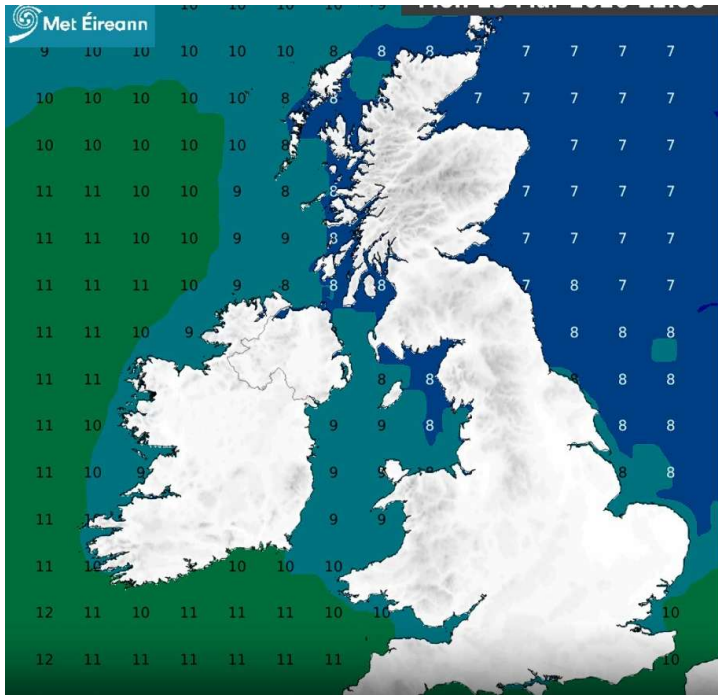
Trend of Maximum Toxin concentrations in Shellfish Species (measured in $\mu\text{g}/\text{kg}$)



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

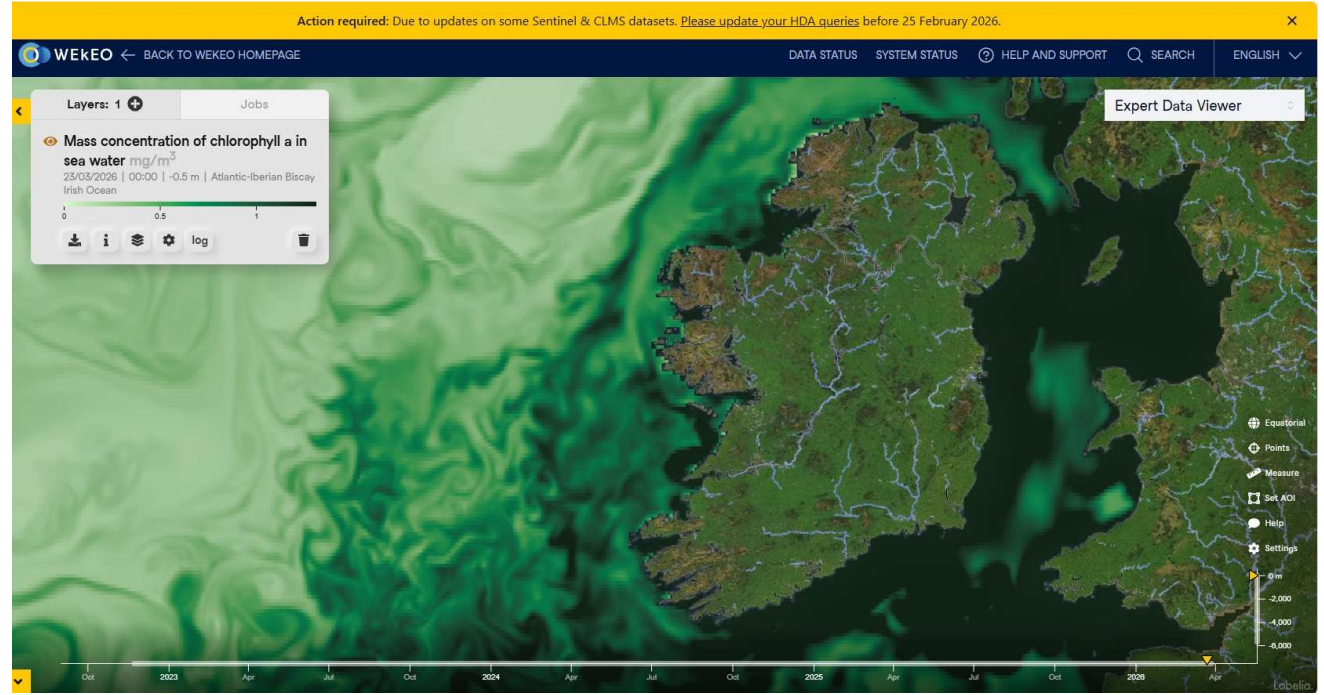


Sea Surface Temperature (°C)



Sea water temperatures still cool but warmer waters still indicated in offshore areas with onshore movements & light levels increasing as we move into Spring. *Azadiracids spp.* are still present on Southwestern & Western shores. Mixed dominance of diatom phytoplankton species present. Please check specific area information for local activity.

Chlorophyll Concentrations (mg/m³)

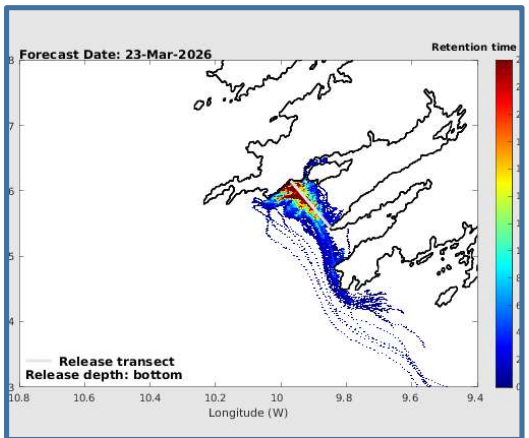


Marine Institute Data Buoy – Temperature Data

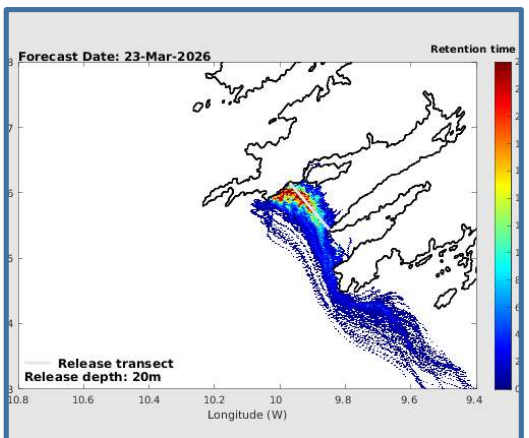


- NW Coast (M4) Average SST of 10.49 Celcius: Increase of 0.37 Celcius over the historic Weekly Average
- SW Coast (M3) Average SST of 8.09 Celcius: Decrease of -2.66 Celcius over the historic Weekly Average
- SE Coast (M5) Average SST of 9.88 Celcius: Increase of 0.7 Celcius over the historic Weekly Average

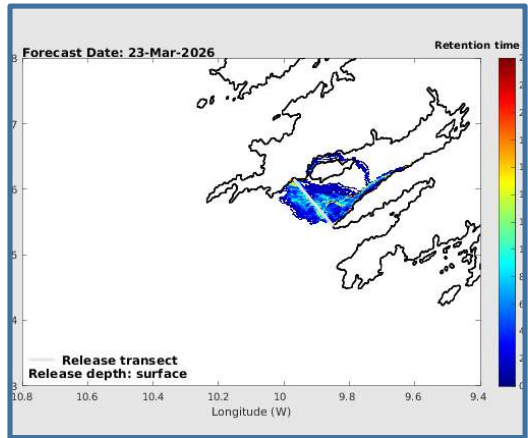
The maps show the **most likely transport pathways for the next 3 days of phytoplankton** found along the **presented transects** (black lines off Mizen Head and the Mouth of Bantry Bay) and **water depths** (bottom, 20 metres and surface).
Reddish colours represent areas where phytoplankton remain longest. **Cooler colours represent areas where phytoplankton remain for shorter periods**



Bottom water

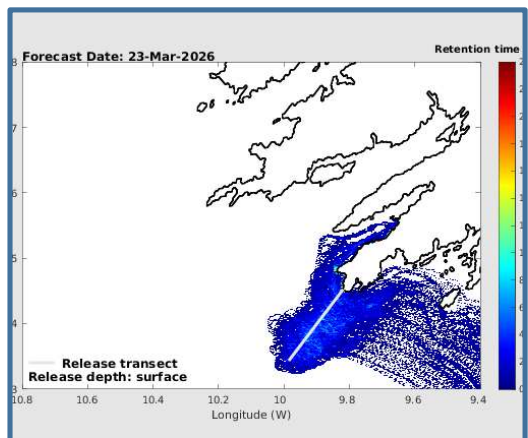
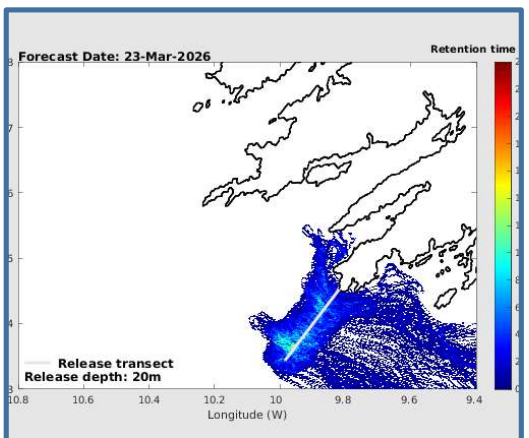
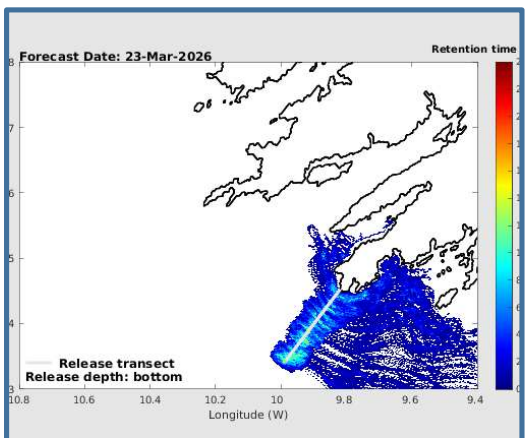


Water @ 20 metres

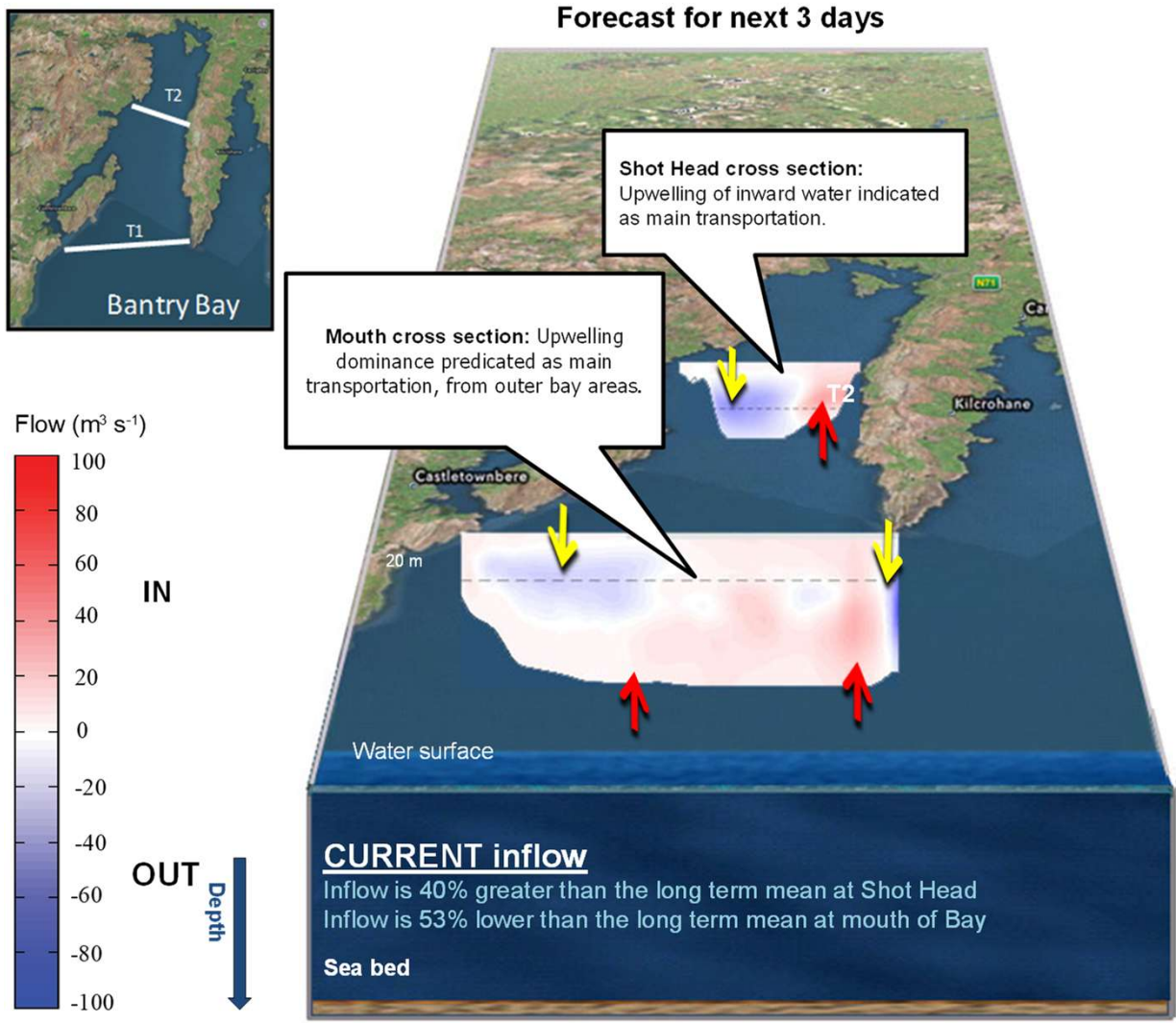


Surface water

Mouth of Bantry Bay:
Mixed water movements into all depths.

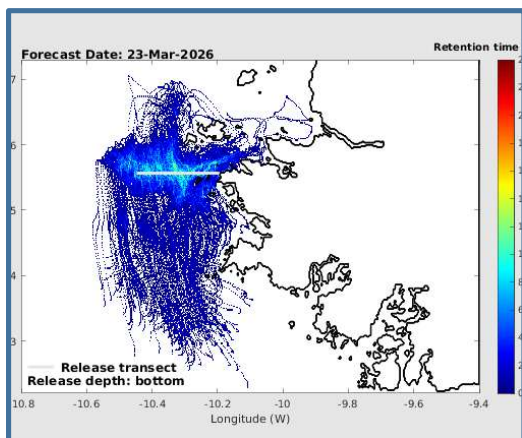


Mizen Head:
Southerly water movements remain at depths & at surface waters.

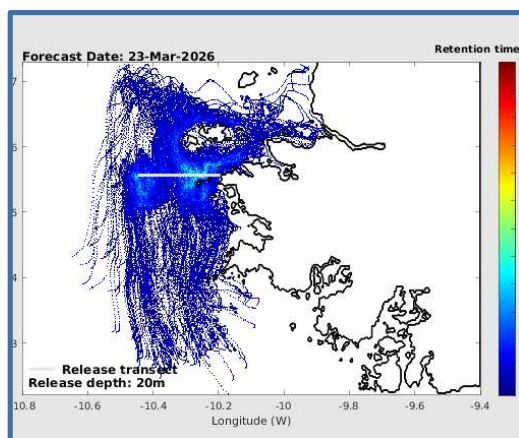


The maps show the **most likely transport pathways for the next 3 days of phytoplankton** found along the **presented transects** i.e. white lines off Aughrus Point and the Mouth of Killary Harbour, and **water depths** (bottom, 20 metres and surface).

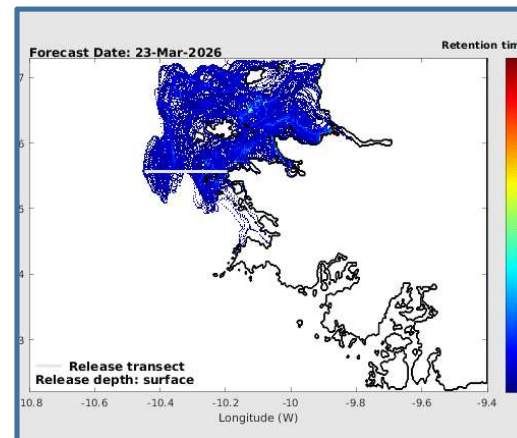
Reddish colours represent areas where phytoplankton remain longest. **Cooler colours represent areas where phytoplankton remain for shorter periods**



Bottom water



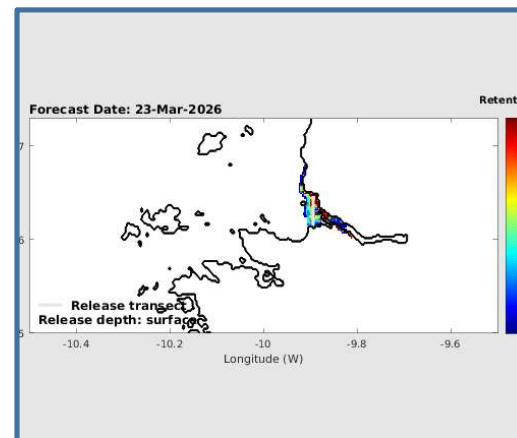
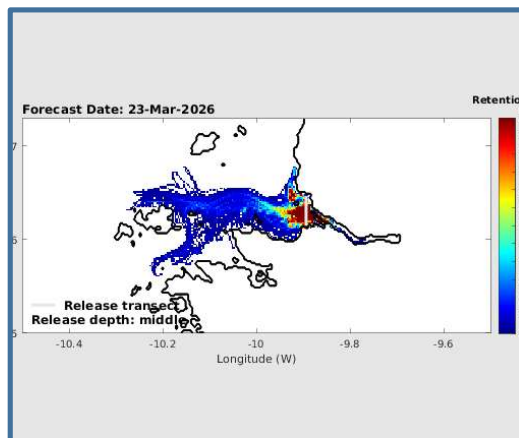
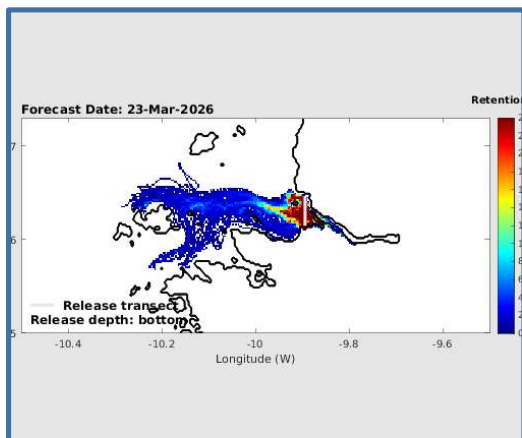
Water @ 20 metres



Surface water

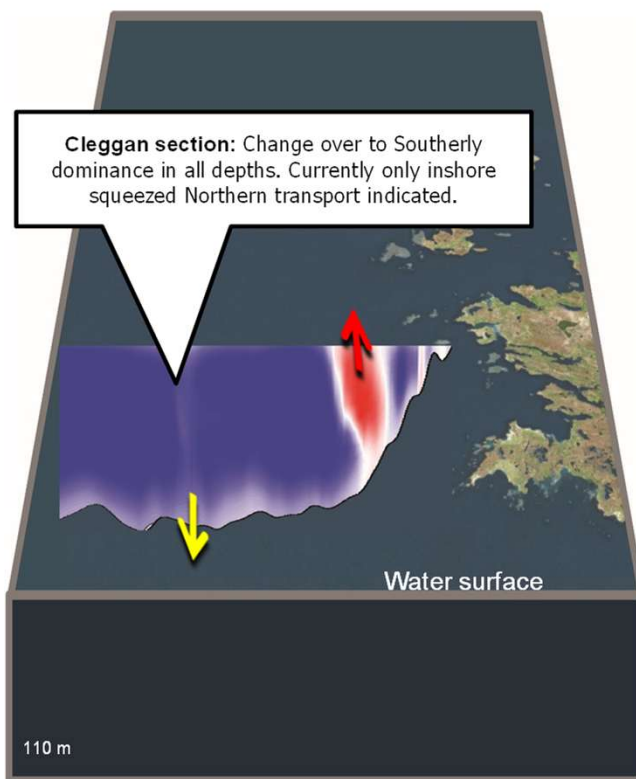
Cleggan

- Change to mixed water movements at all depths.

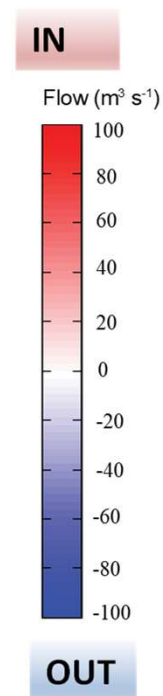


Killary

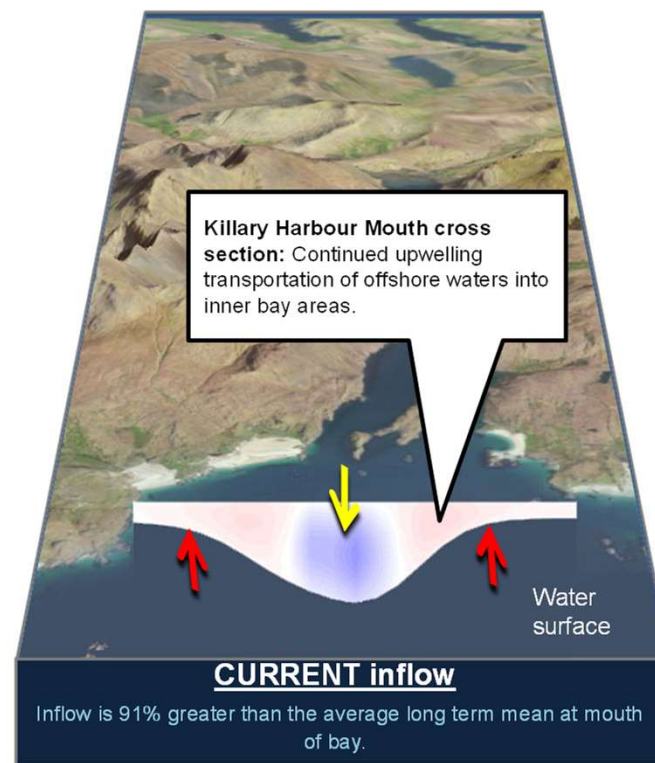
- Upwelling of offshore water remains as main inshore transportation.



Forecast for next 3 days



Depth ↓





Have a question? Please email us habs@marine.ie

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