

Ireland: Predictions

ASP event: Low

AZP event: Low to moderate

DSP event: Low

PSP event: Very low

NMP Current closures			
ASP	AZP	DSP	PSP
0	0	0	0

Why do we think this?

ASP: Currently there appears to be a steady weekly pattern of *Psuedo nitzschia* species slowly increasing in distribution and cell concentrations around the coastline. All sites remain clear of toxins. This trend will need to be monitored as temperature and light increase favourable growing environmental conditions.

AZP: *Azadinium* type species' levels continue to fluctuate weekly, with the number of sites with any toxin presence having increased over the last 2 consecutive weeks. Issues with this toxin can occur suddenly and acutely .Caution is advised.

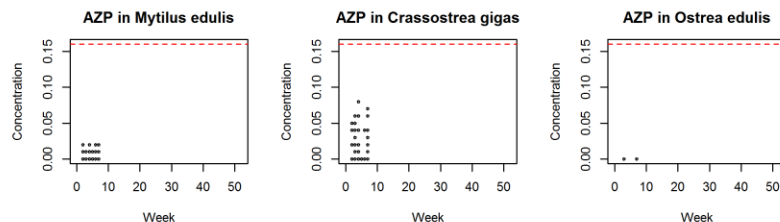
DSP: This is currently a low risk period for early DSP events. All sites are currently below regulatory limits .

PSP: A toxic event is not expected at this time of year.

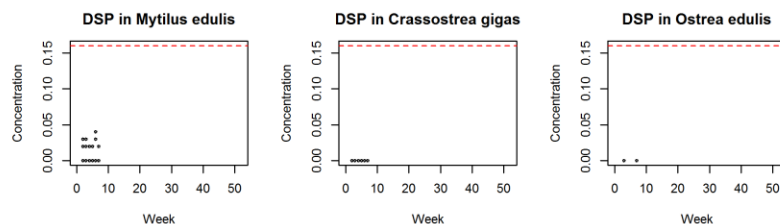
Please note: We will be updating the format of this bulletin throughout the year in an active effort to increase end user applicability and incorporate developing technologies. All feedback is welcome at Joe.Silke@Marine.ie .

National Monitoring Programme

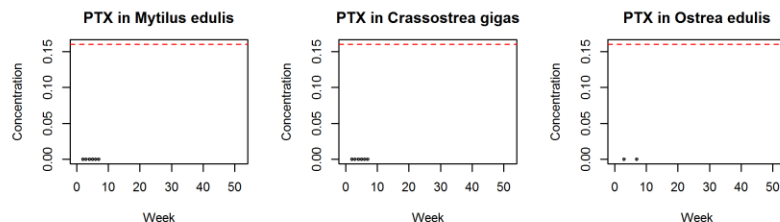
AZP



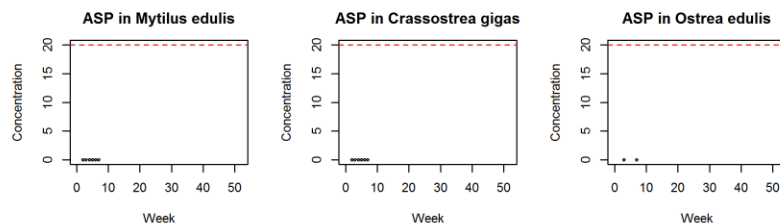
DSP



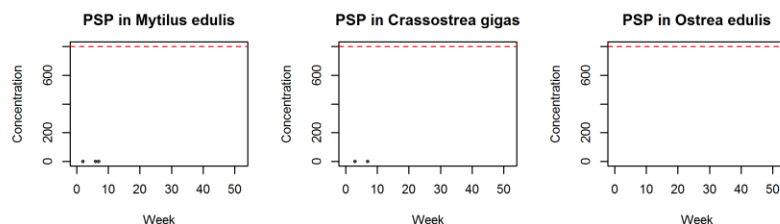
PTX



ASP



PSP



Levels from week 1 to present week. Regulatory limit - - - - -



HISTORIC TRENDS



ASP events: mid-March to early May

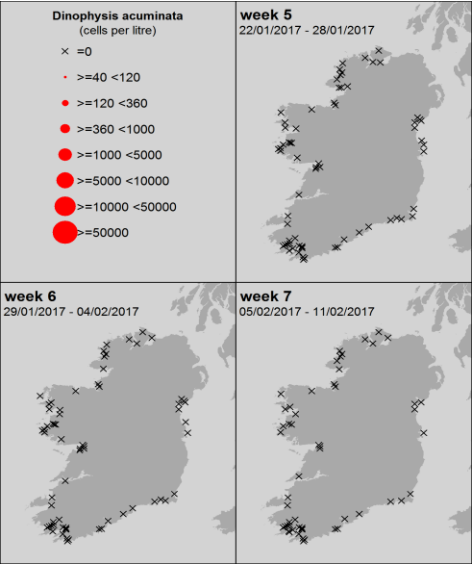
AZP events: April to December

DSP events: May to December

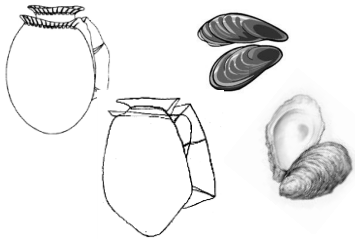
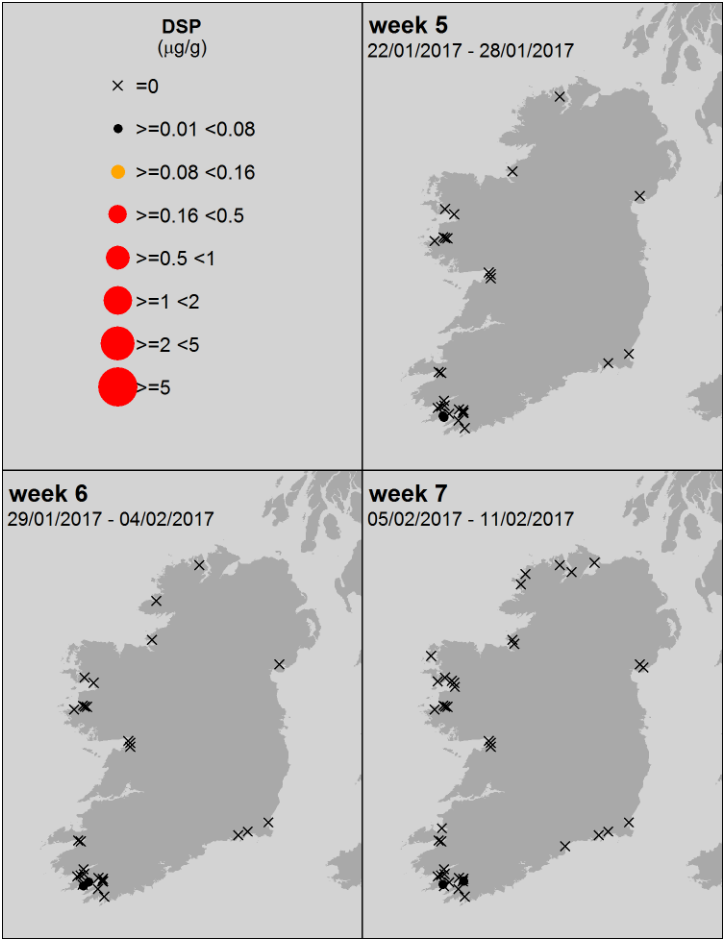
PSP events: June to mid-July and end September; only in Cork Harbour

DSP and Dinophysis sp. current trends

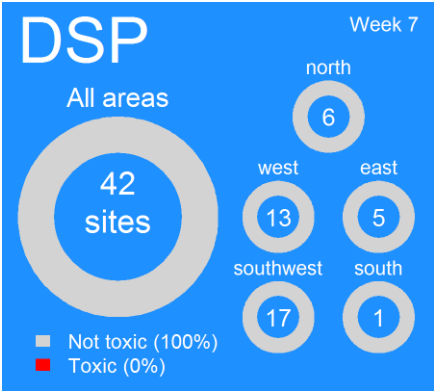
Phytoplankton species – 3 wks



All levels of DSP biotoxin recorded- 3 wks



Current closures levels
≥ DSP 0.16 µg/g



Comments

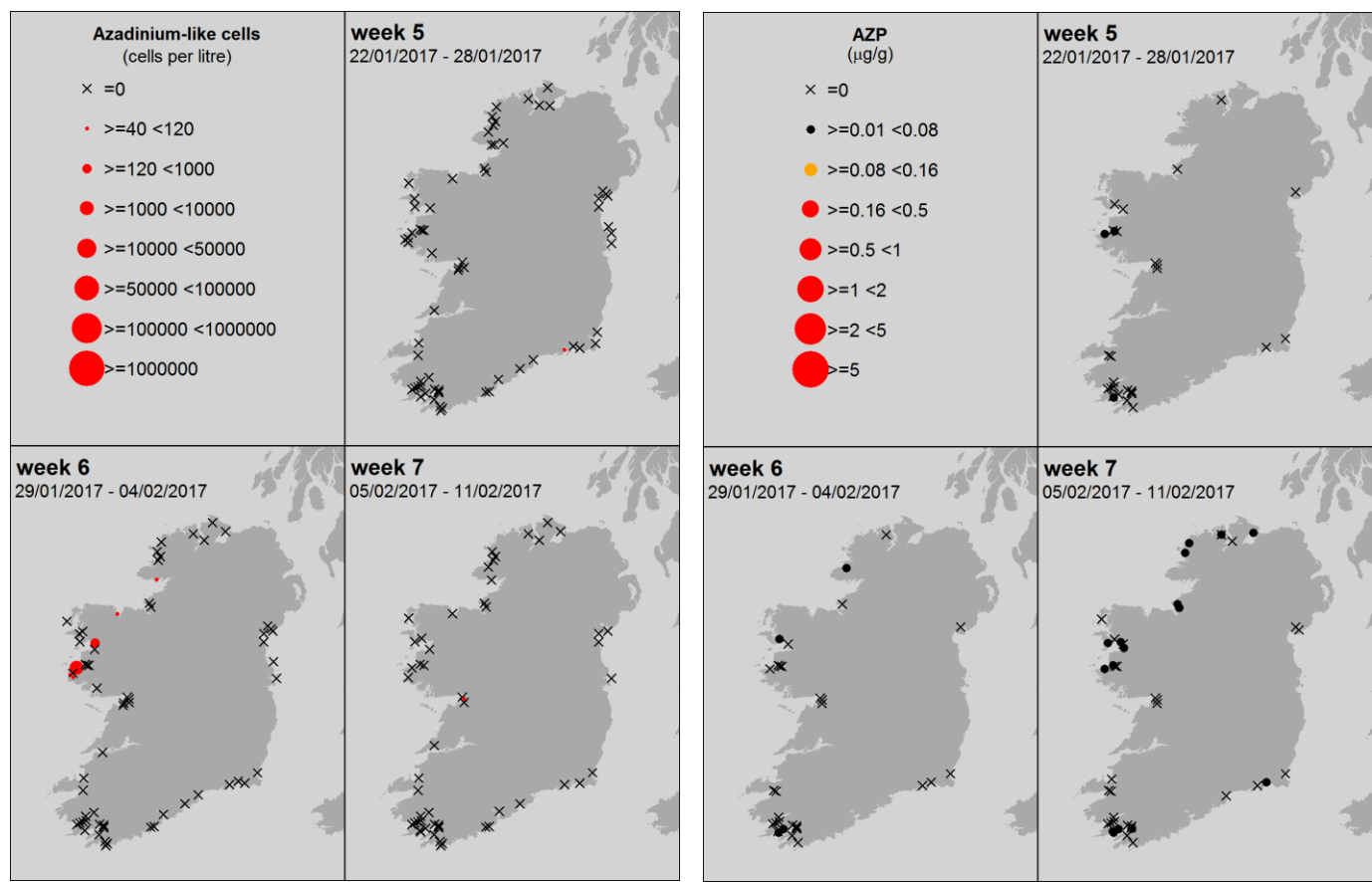
Same as last week -
Very low cell levels
and DSP detected in 1
or 2 sites only. No
closures currently
expected.

AZP and Azadinium like species current trends



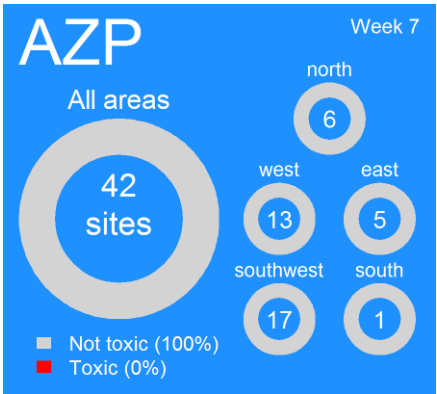
Phytoplankton species – 3 wks

All levels of AZP biotoxin recorded - 3 wks



Current closures levels

≥ AZP 0.16 µg/g

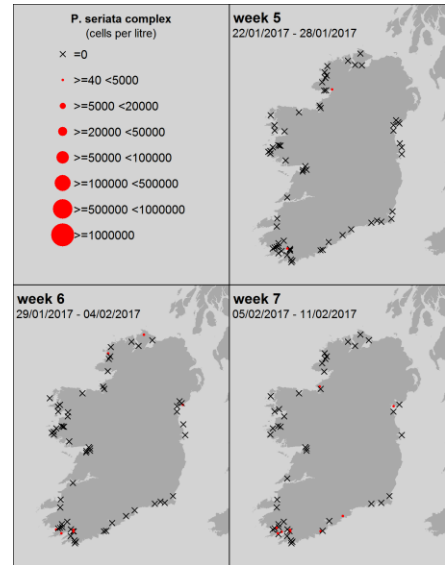


Comments

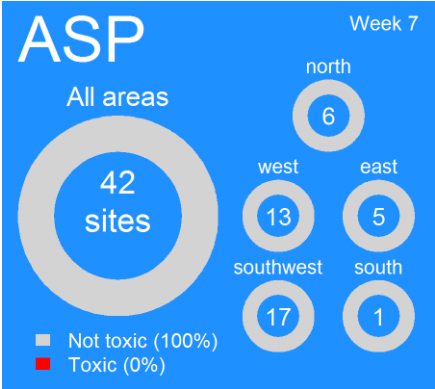
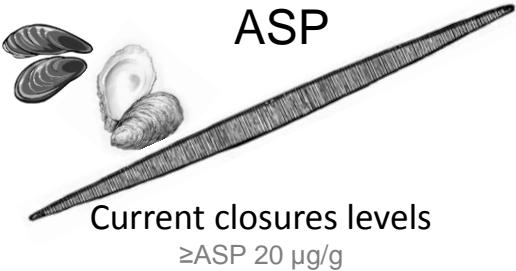
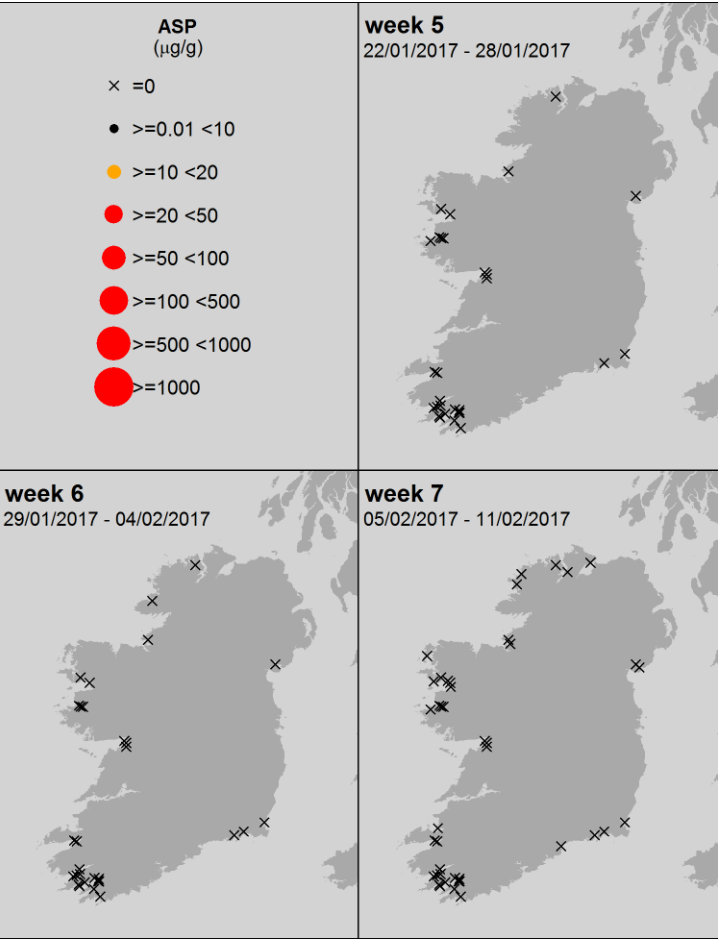
Slight increase in presence of low level toxins . Slight increase in phytoplankton potential spread but all sites still well below biotoxin limits.

ASP and Pseudo nitzschia sp. current trends

Phytoplankton species – 3 wks



All levels of ASP biotoxin recorded - 3 wks

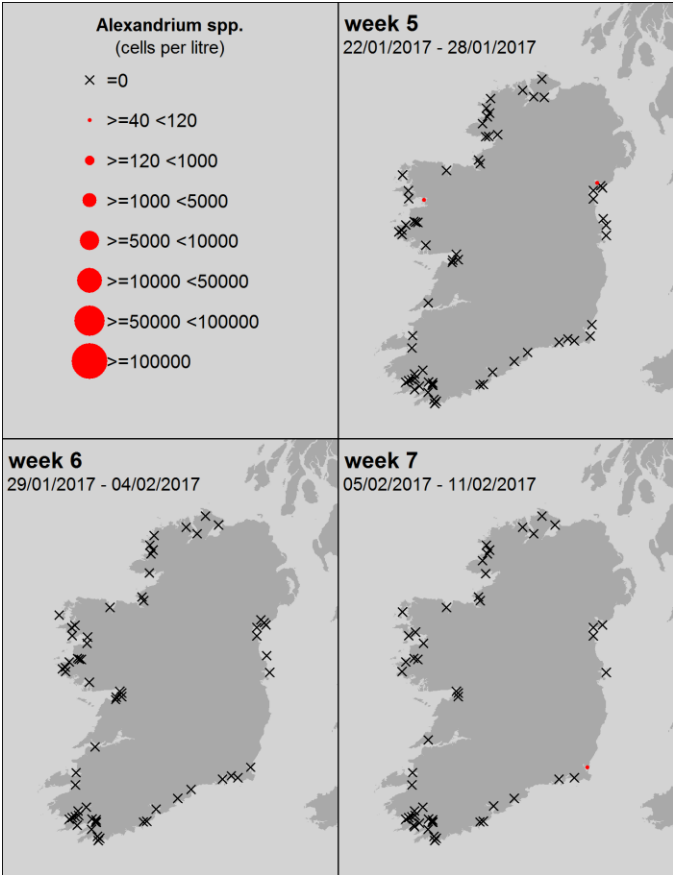


Comments

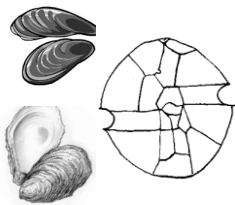
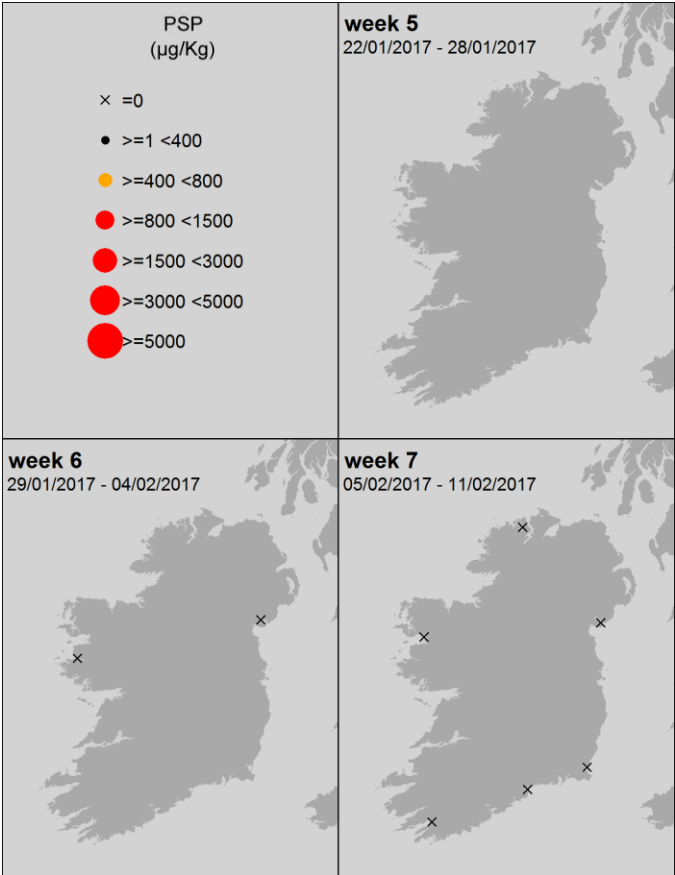
Slow steady spread and increase in phytoplankton cells continues but all sites tested still well below biotoxin limits.

PSP and Alexandrium sp. current trends

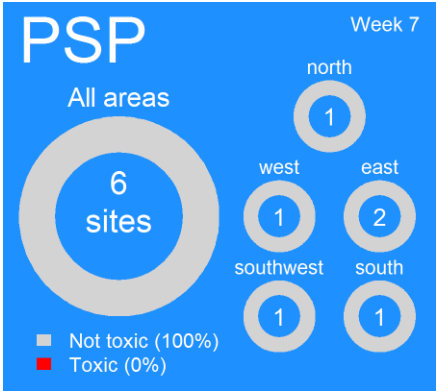
Phytoplankton species – 3 wks



All levels of PSP biotoxin recorded - 3 wks

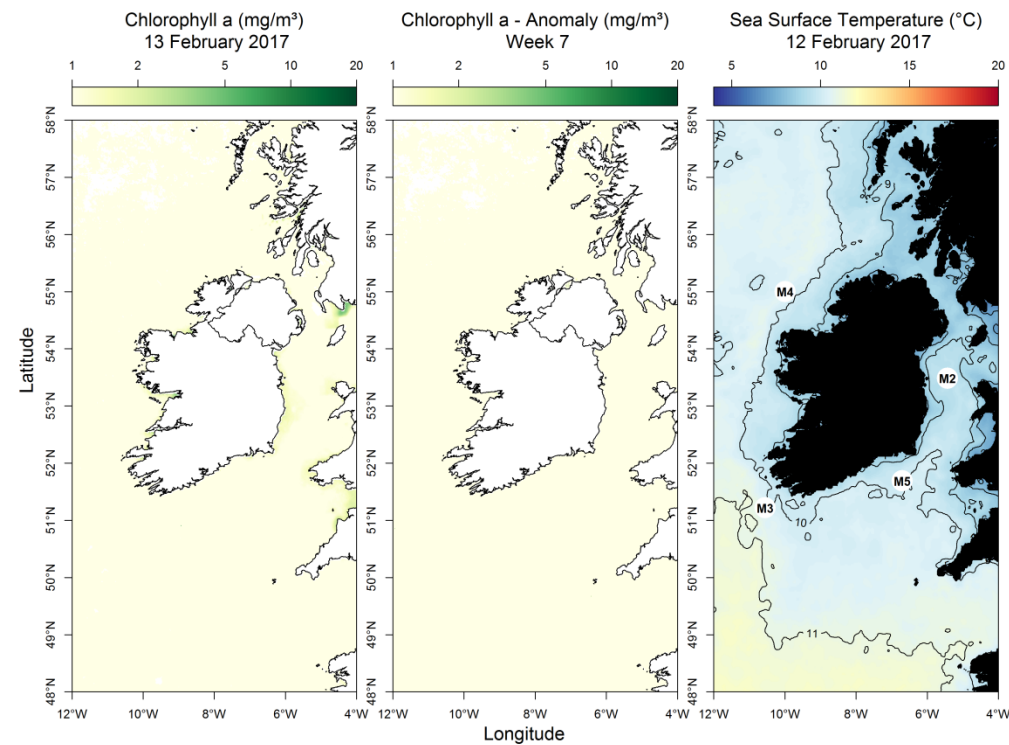


Current closures levels
≥ PSP 800 µg/Kg

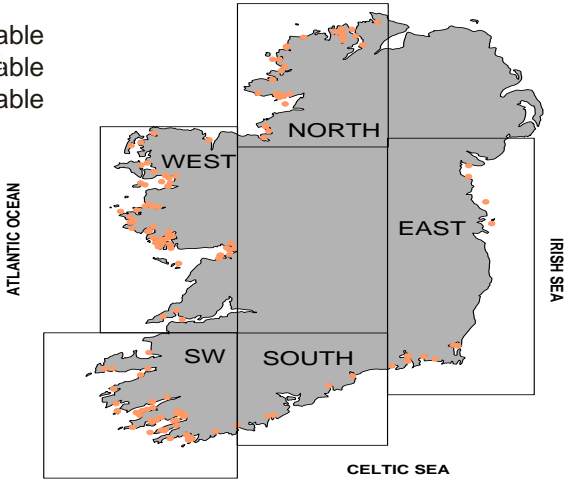


Comments
-No current changes -
No closures and
negligible likelihood
of bloom at this time.

Most up to date available satellite data

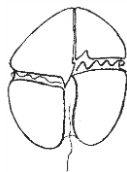


NW coast (M4) Data unavailable
SW coast (M3) Data unavailable
SE coast (M5) Data unavailable



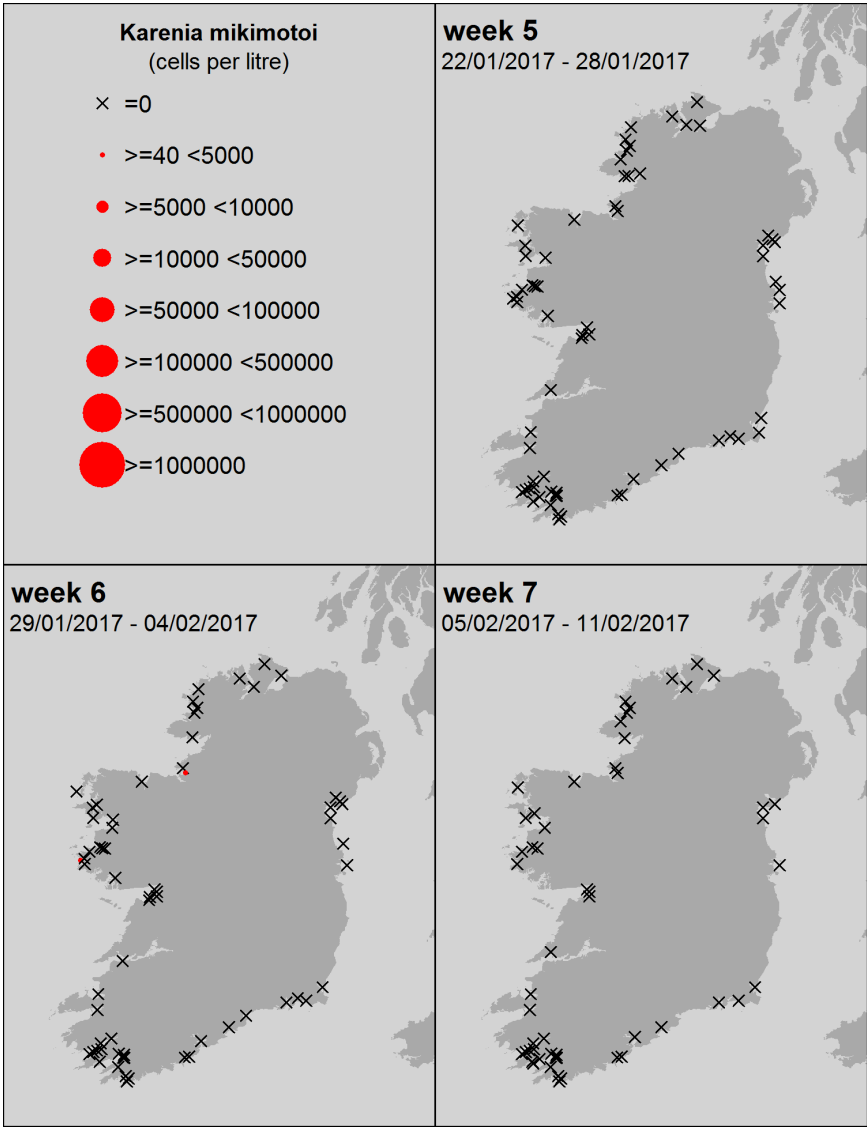
What phytoplankton were blooming at inshore coastal sites last week?

Rank	Region	Species	Rounded Count
1	east	Pennate diatom	25000
2	east	Paralia sulcata	2000
3	east	Fragilaria spp.	1000
4	east	Chaetoceros (Hyalochaete) spp.	1000
5	east	Skeletonema spp.	1000
1	north	Pennate diatom	55000
2	north	Skeletonema spp.	40000
3	north	Asterionellopsis glacialis	17000
4	north	Chaetoceros (Hyalochaete) spp.	5000
5	north	Thalassiosira spp.	3000
1	south	Centric diatoms <20um	22000
2	south	Paralia sp.	6000
3	south	Nitzschia spp. (small)	4000
4	south	Grammatophora spp.	3000
5	south	Skeletonema costatum	3000
1	southwest	Navicula spp. 20-50 um	60000
2	southwest	Prymnesiophytes	35000
3	southwest	Navicula spp. <25um	15000
4	southwest	Skeletonema costatum	13000
5	southwest	Skeletonema spp.	10000
1	west	Skeletonema spp.	6000
2	west	Odontella spp.	4000
3	west	Thalassiosira spp.	3000
4	west	Microflagellate spp. <10um	2000
5	west	Pennate diatom	2000



Karenia mikimotoi
(old name: *Gyrodinium aureolum*)

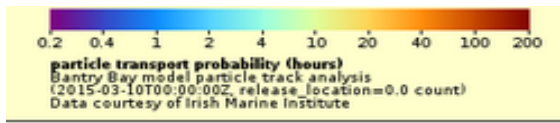
A *Karenia mikimotoi* bloom
is NOT expected this week



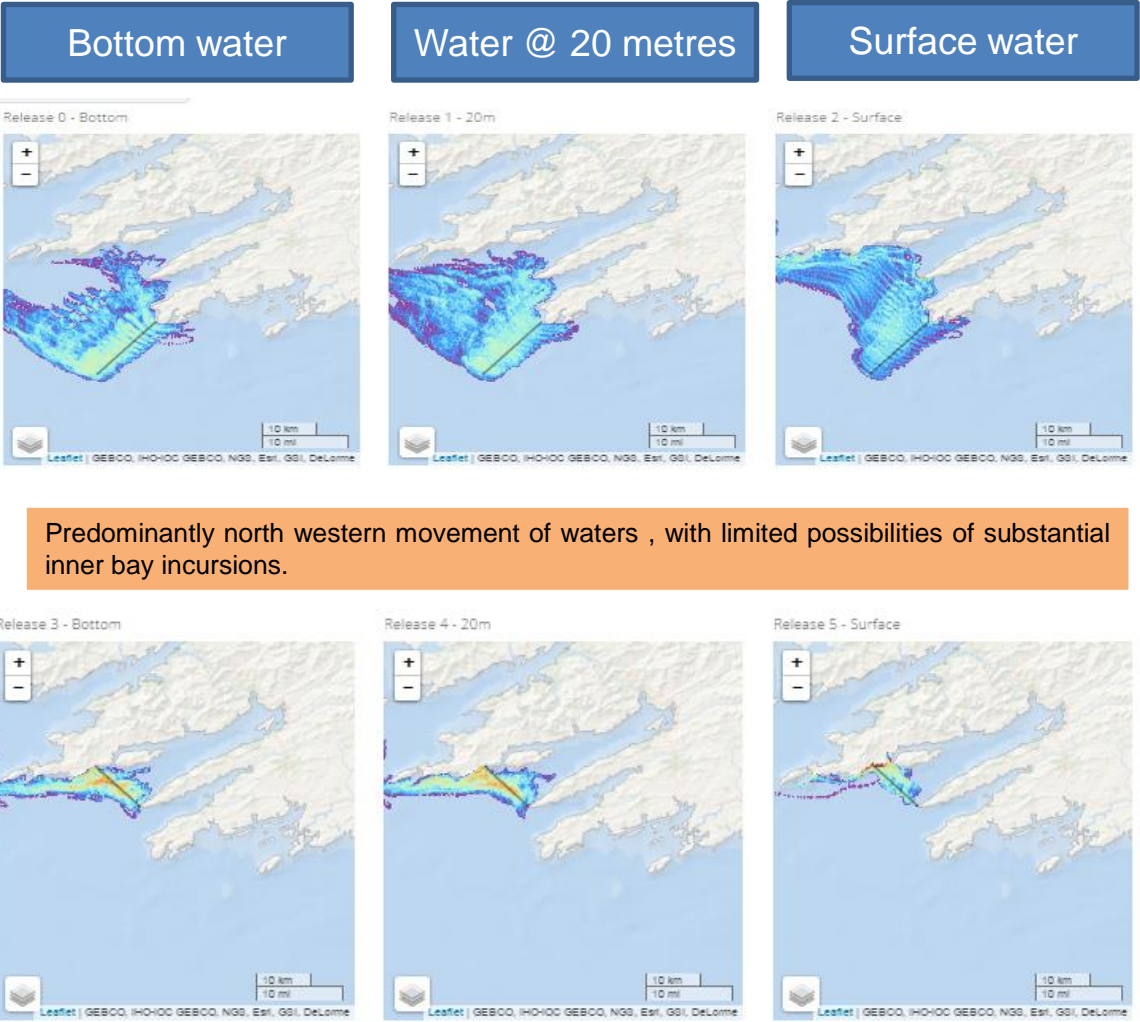
SOUTHWEST: Bantry Bay

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



Forecast for the next 3 days



Predominantly north western movement of waters , with limited possibilities of substantial inner bay incursions.

Outward and north-westerly movements of waters at all depths with limited movement inward towards inner bay areas.

Water Pathway diagrams for Killary and Cleggan are unfortunately not available this week.