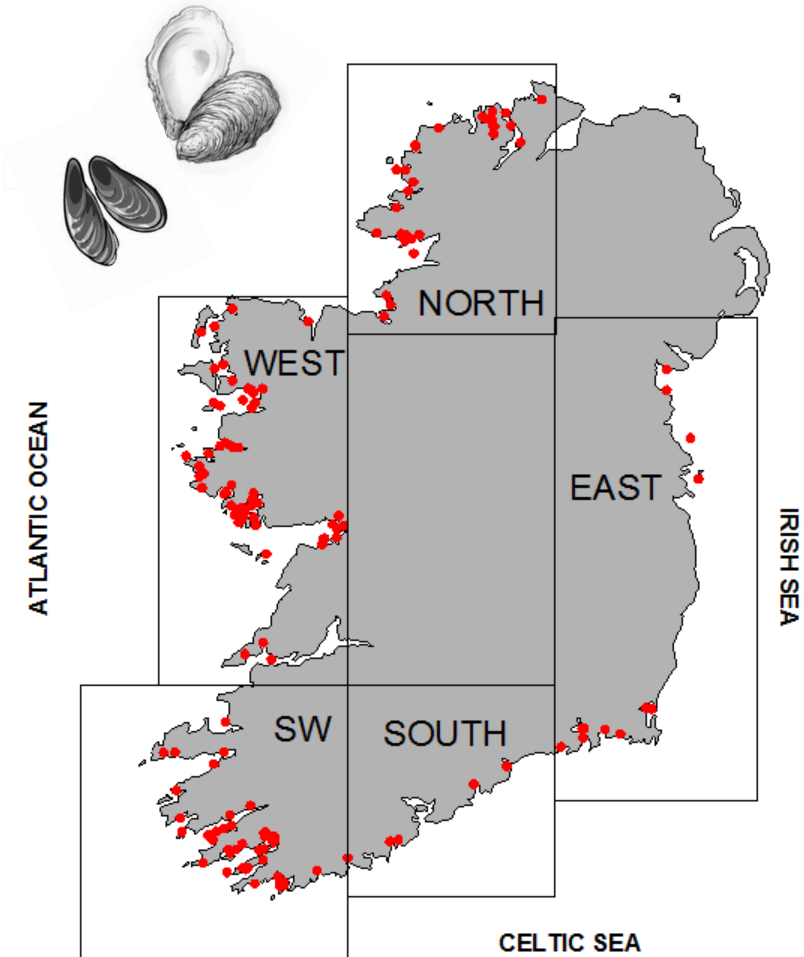
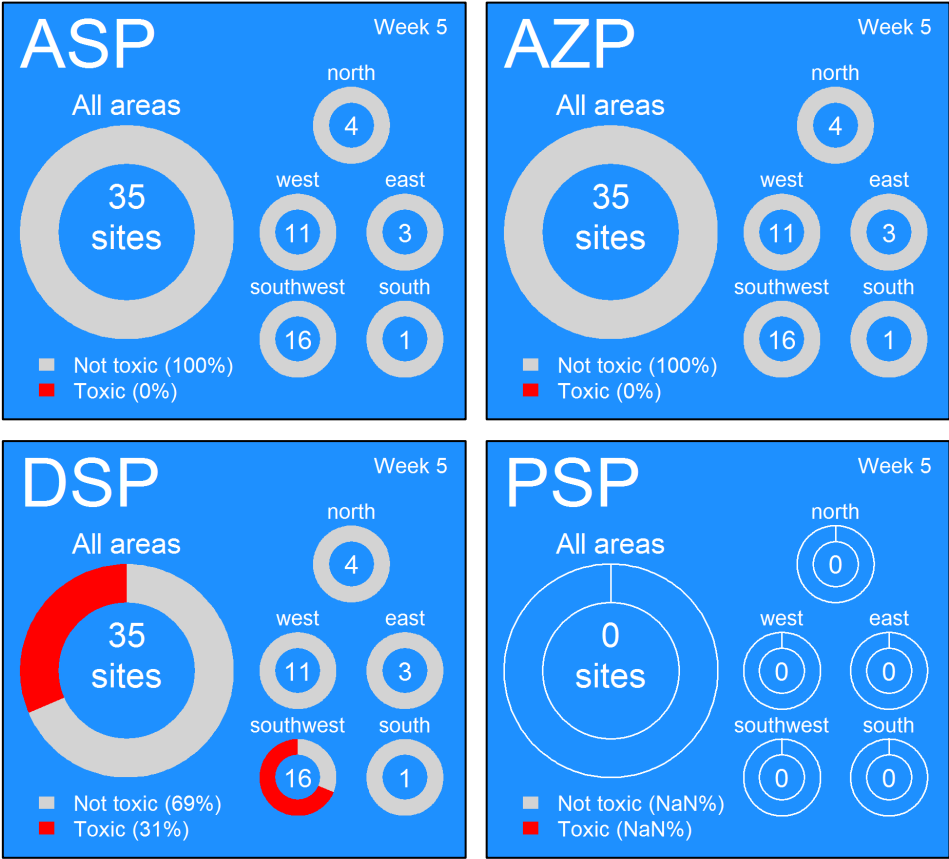


Ireland: Current Conditions

Shellfish biotoxin report (last week)



EU Regulatory Limit:
ASP 20 µg/g; AZP 0.16 µg/g; DSP 0.16 µg/g; PSP 800 µg/kg

Ireland: Predictions

Prediction for this week:

ASP event: Low risk.

AZP event: AZP biotoxin levels likely to fluctuate at some sites.

DSP event: DSP biotoxins likely to continue to decrease. Contamination likely to remain above the EU regulatory level at sites where biotoxin levels were high.

PSP event: Very low risk.

Why do we think this?

ASP: This is a low risk period for all sites. No biotoxin detected in recent weeks. *Pseudo-nitzschia* cell densities are low (~ 2,000 cells/L).

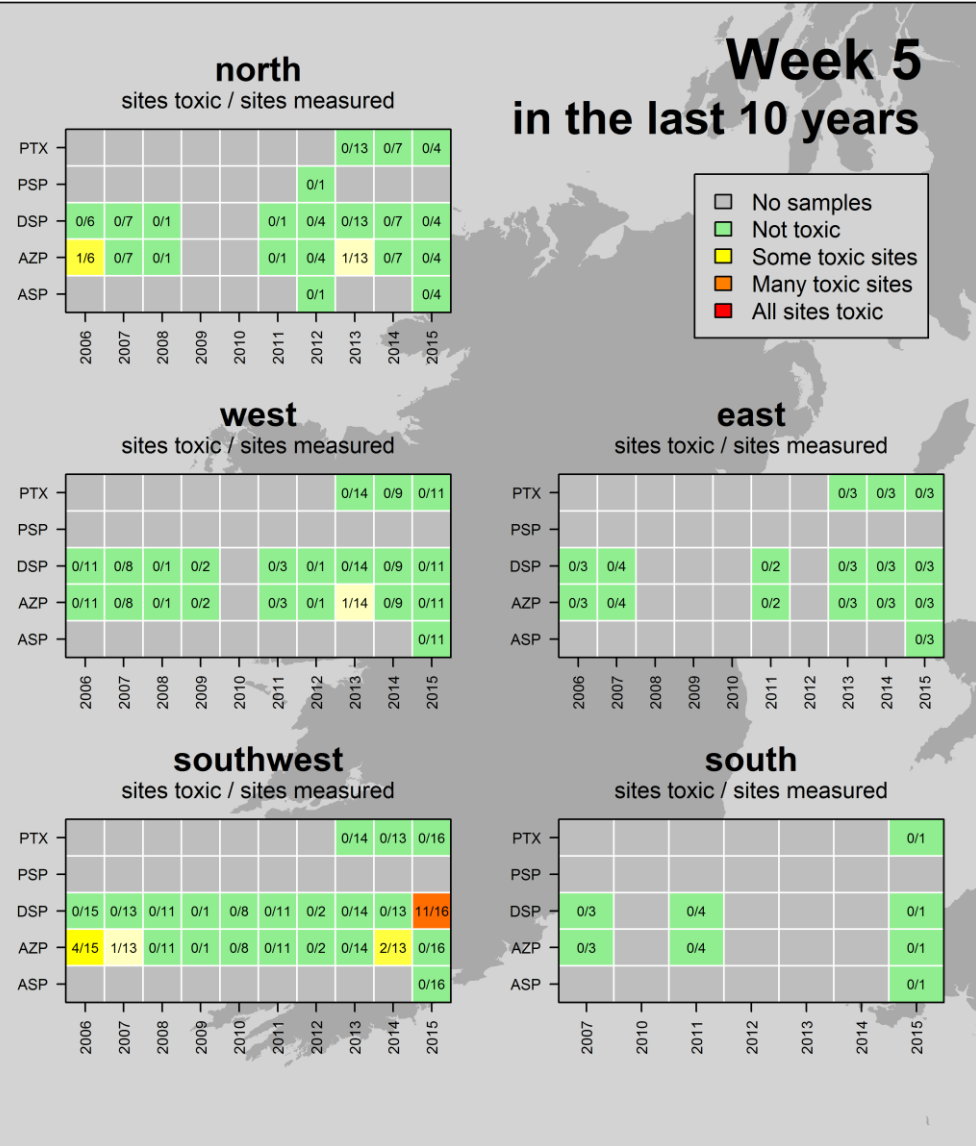
AZP: Background levels all along the western seaboard. Maximum *Azadinium* - like cells at ~12,000 cells/L in the north. Historical data demonstrates that Azaspiracid can be present in shellfish at this time of year, usually due to winter carry over from late autumn contamination events.

DSP: *Dinophysis acuminata* and *D. acuta* not detected. Chemistry levels of Okadaic acid & equiv. continue to fall (max. now at 0.35 µg/g in SW mussels). Likely to remain above EU regulatory levels at sites where contamination was high.

PSP: Historically this a low risk period of the year for all sites. *Alexandrium* spp. not detected. No biotoxins.

Ireland: Historic Conditions

A look back at how last weeks biotoxin results compares to other years

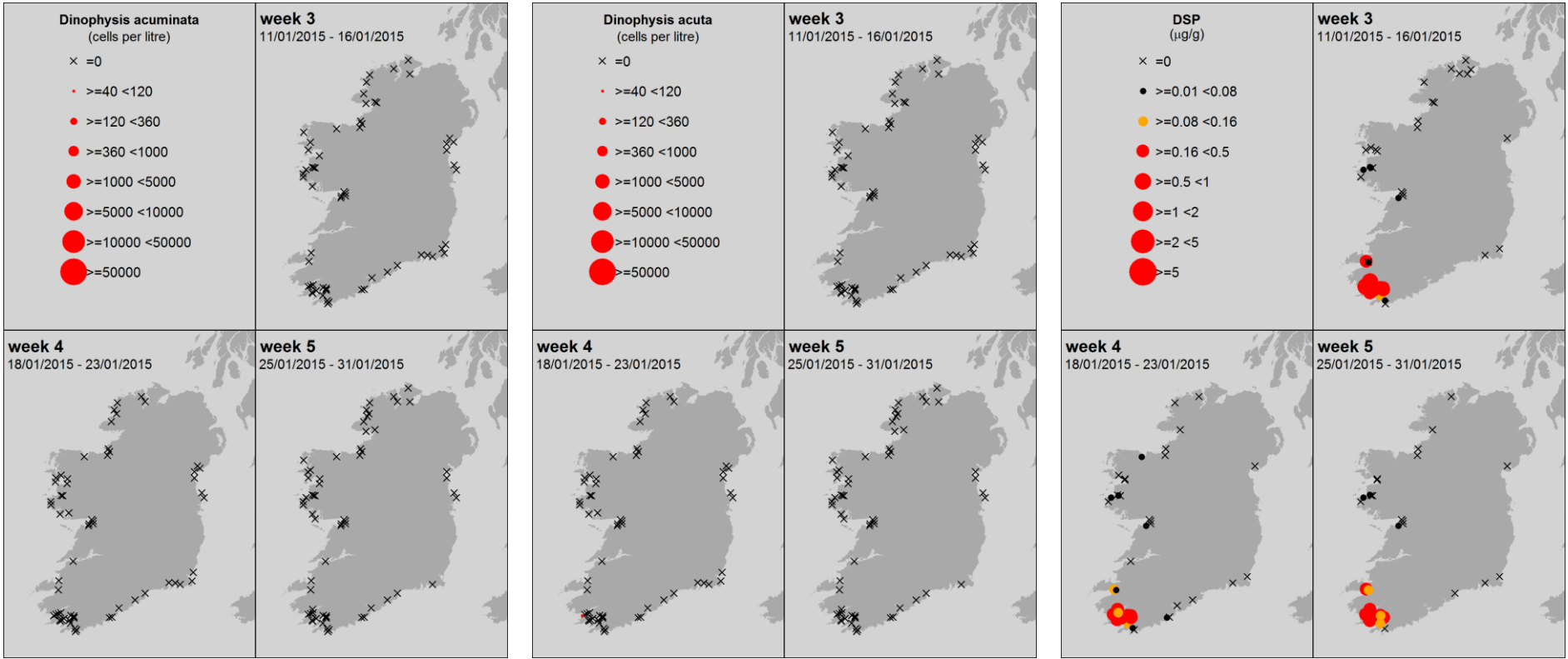
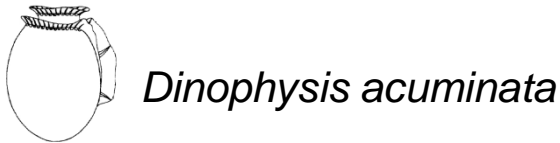


Ireland HISTORIC TRENDS

2003-2012 Shellfish Toxicity: does not include winter carry over of biotoxins
ASP events: weeks 11 to 18 (mid-March to early May)
AZP events: weeks 17 to 51 (April to December)
DSP events: weeks 19 to 51 (May to December)
PSP events: weeks 23, 25-28 (June to mid-July) and 38-39 (end September); only in Cork Harbour



Ireland: Last 3 weeks of available National Monitoring Programme data

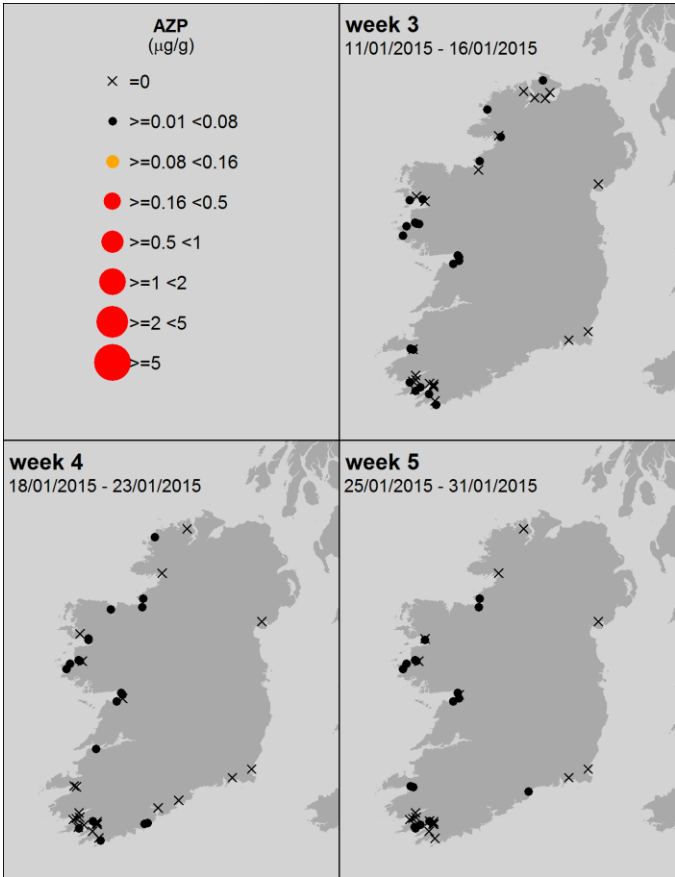
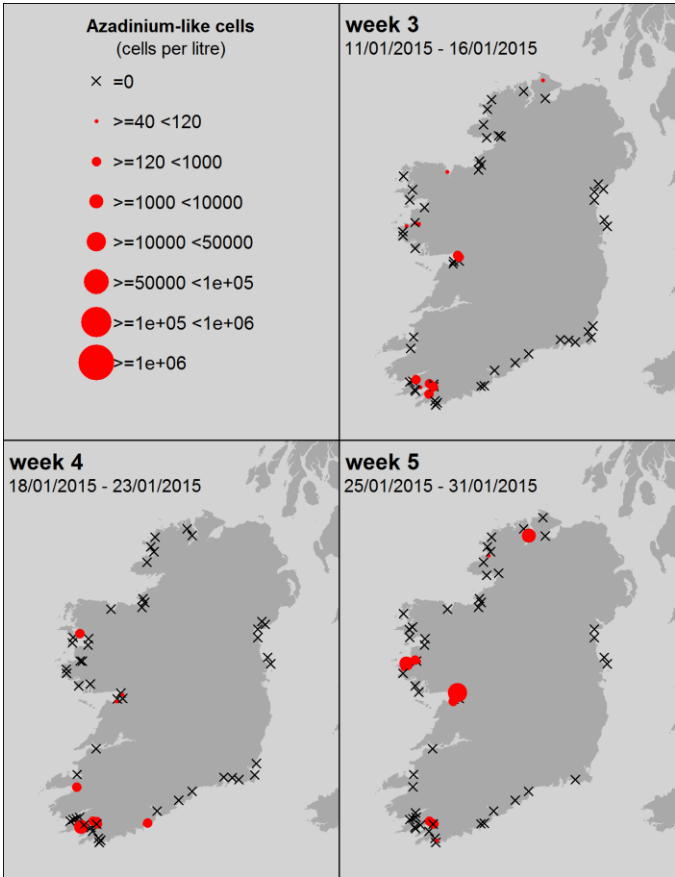


Ireland: Last 3 weeks of available National Monitoring Programme data

Azadinium – like spp.



AZP

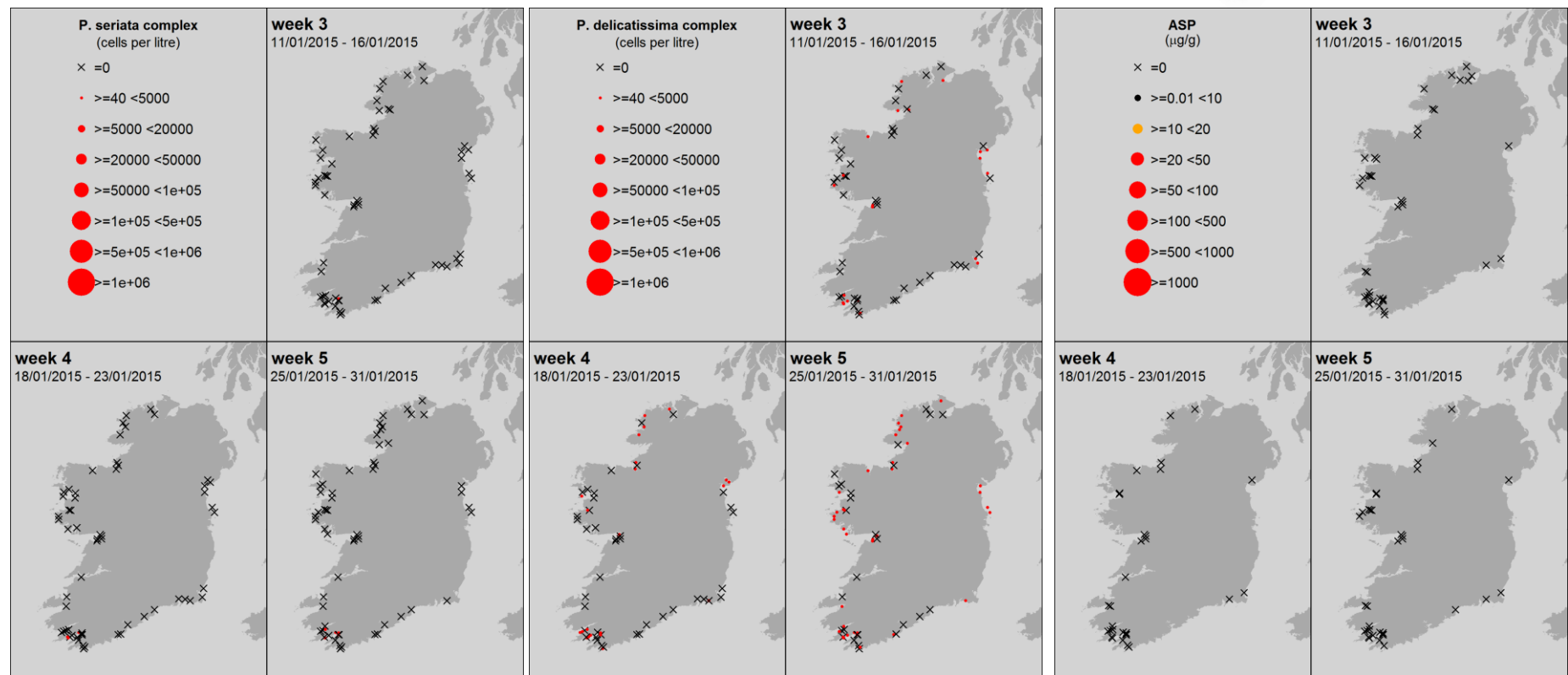


Ireland: Last 3 weeks of available National Monitoring Programme data

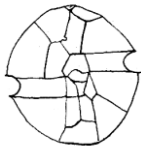
Pseudo-nitzschia spp.



ASP



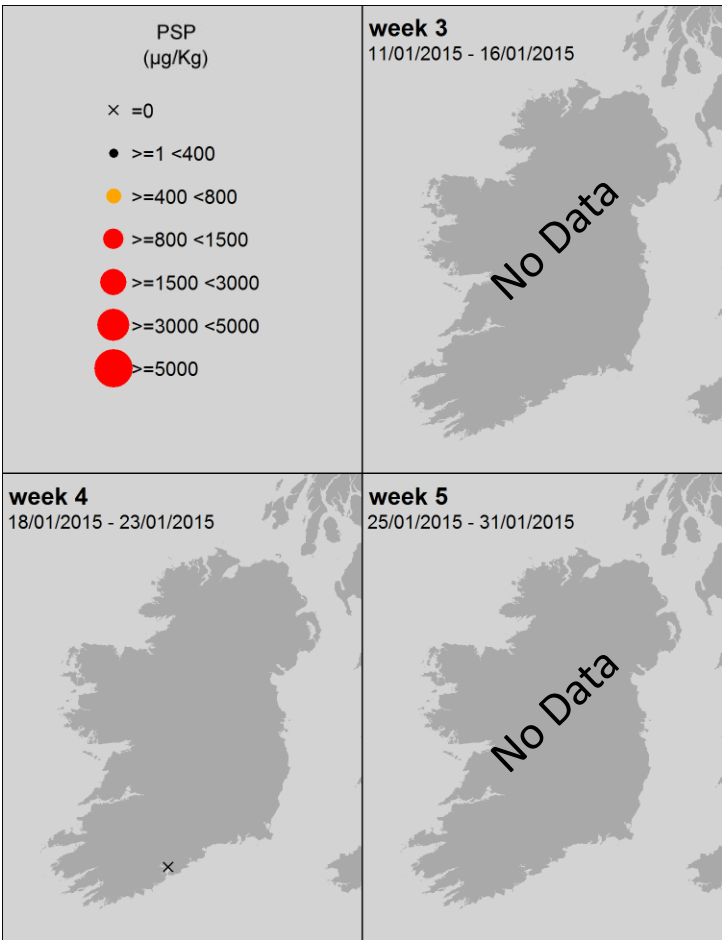
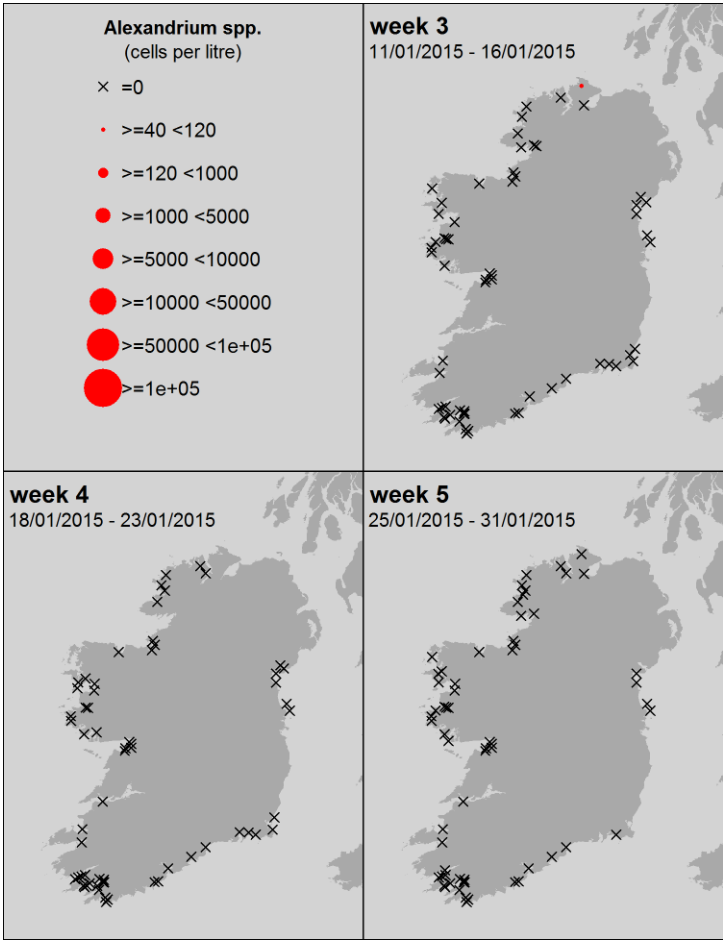
Ireland: Last 3 weeks of available National Monitoring Programme data



Alexandrium spp.

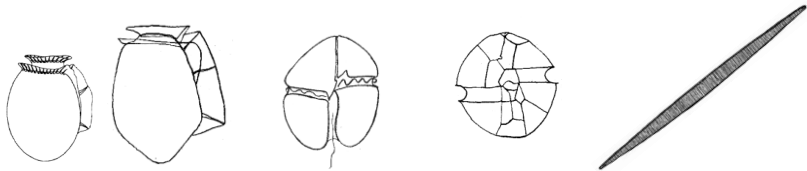


PSP

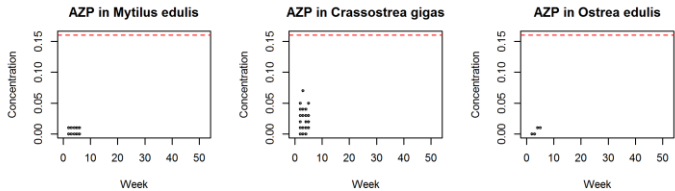


Ireland: HABs and biotoxins Levels from week 1 to present

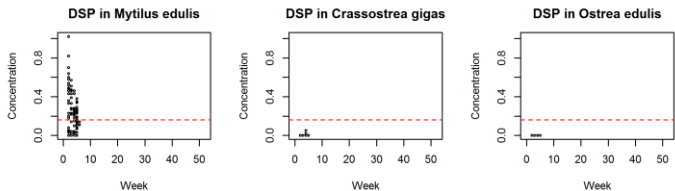
Ireland: Biotoxins



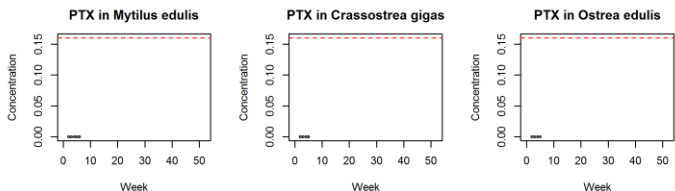
AZP



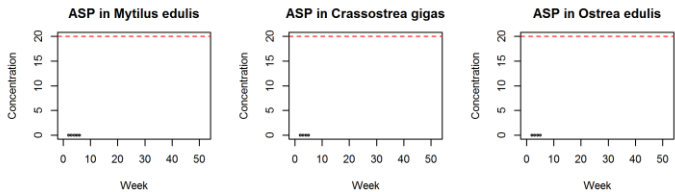
DSP



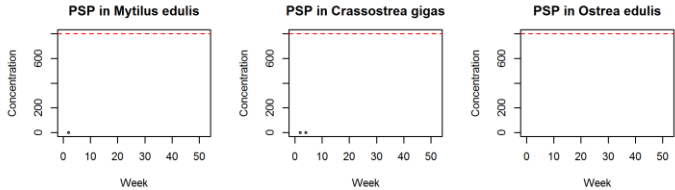
PTX



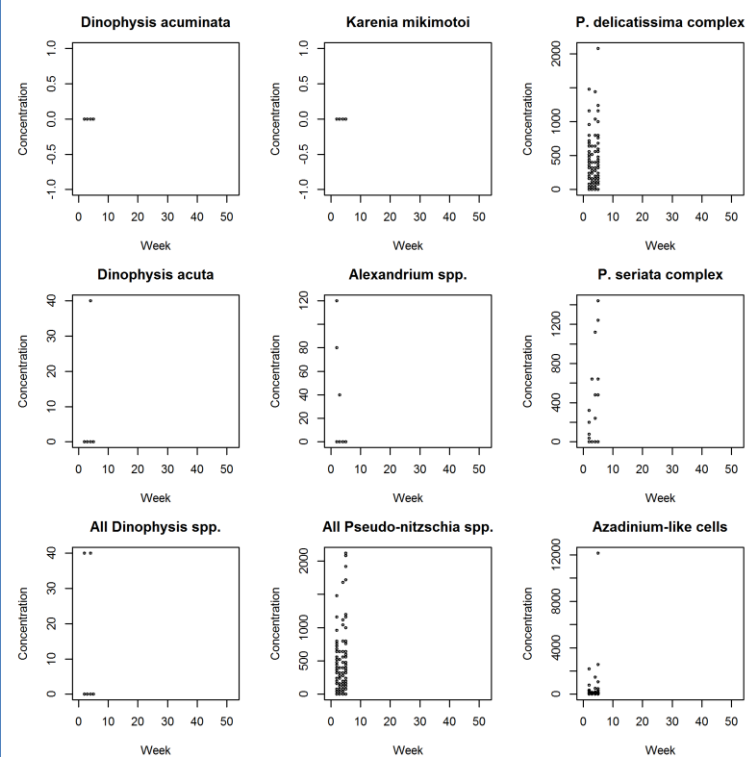
ASP



PSP



Ireland: HABs

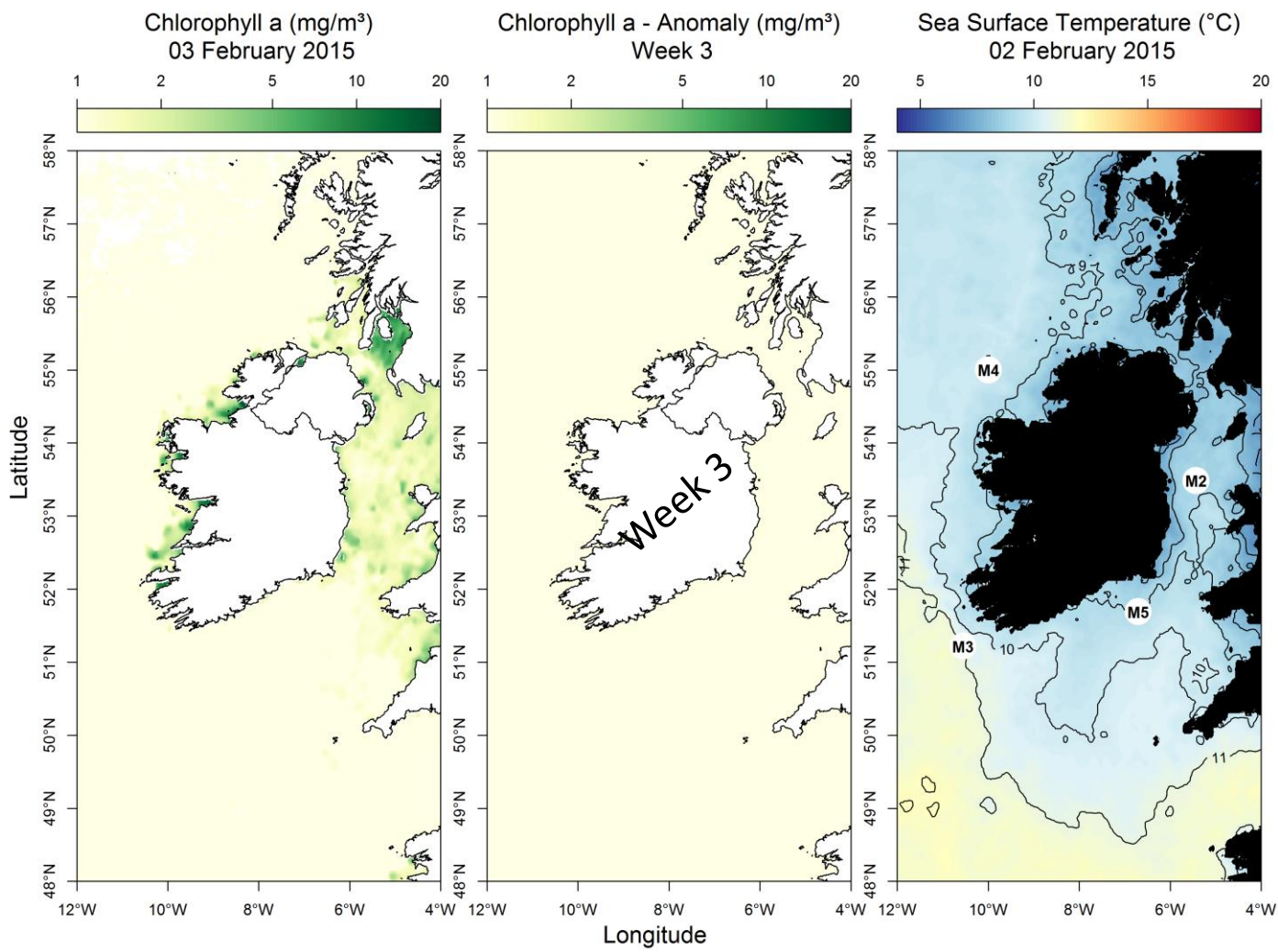


Week number: 1 to 5

EU Regulatory Limit: ASP 20 µg/g; AZP 0.16 µg/g; DSP 0.16 µg/g; PSP 800 µg/kg

Regulatory limit = ■■■■■

Ireland: Most up to date available satellite data



SST (°C) anomaly Week 5:

Data taken from the Irish data buoy network where the anomaly is the weekly difference in SST compared to the long term mean (~ 10 yrs)

Northwest coast (M4)	above average by 0.09 °C
Southwest coast (M3)	above average by 0.32 °C
Southeast coast (M5)	Not available