

Ireland: Historic Trends, Current Conditions and Predictions

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

What happened this week over the past twelve years?
2003-2014 Harvesting closures (biotoxins above regulatory levels)
North coast: AZP (2006 & 2013)
West coast: AZP (2013)
Southwest coast: AZP (2006, 2007 & 2014)
South coast: clear

Prediction for this week:

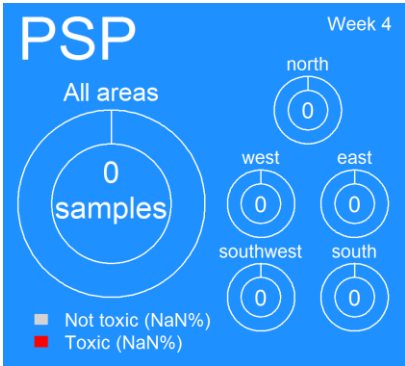
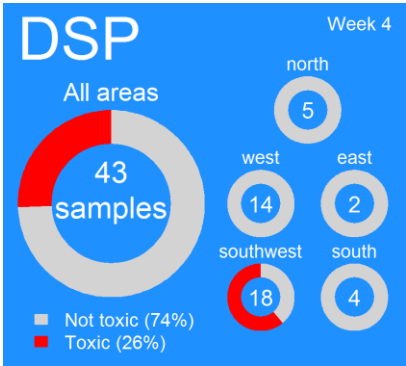
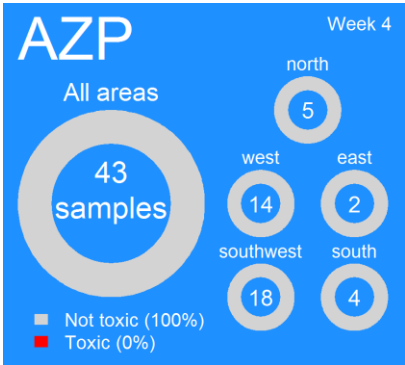
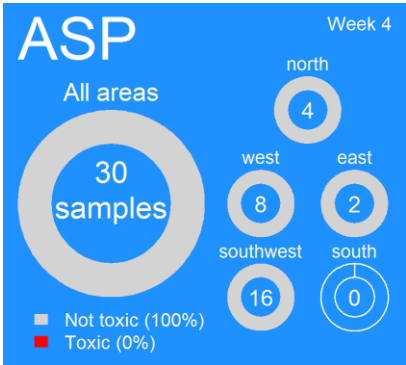
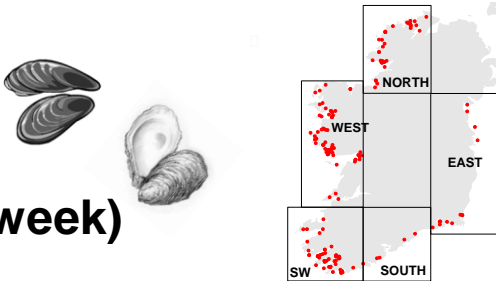
ASP event: Low risk.
AZP event: AZP biotoxin levels likely to fluctuate at some sites.
DSP event: DSP biotoxins likely to continue to decrease. Contamination likely to remain above the EU regulatory level at sites where biotoxin levels were high.
PSP event: Very low risk.

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 1,500 cells/L in the SW. 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* not detected and *D. acuta* at background levels at one site off the SW. Chemistry levels of Okadaic acid & equiv. continue to fall. They remain above EU regulatory levels at sites where contamination was high. Depuration likely to be slow as phytoplankton growth is still low at this time of year.
PSP: Historically this a low risk period of the year for all sites. *Alexandrium* spp. not detected. No biotoxins.

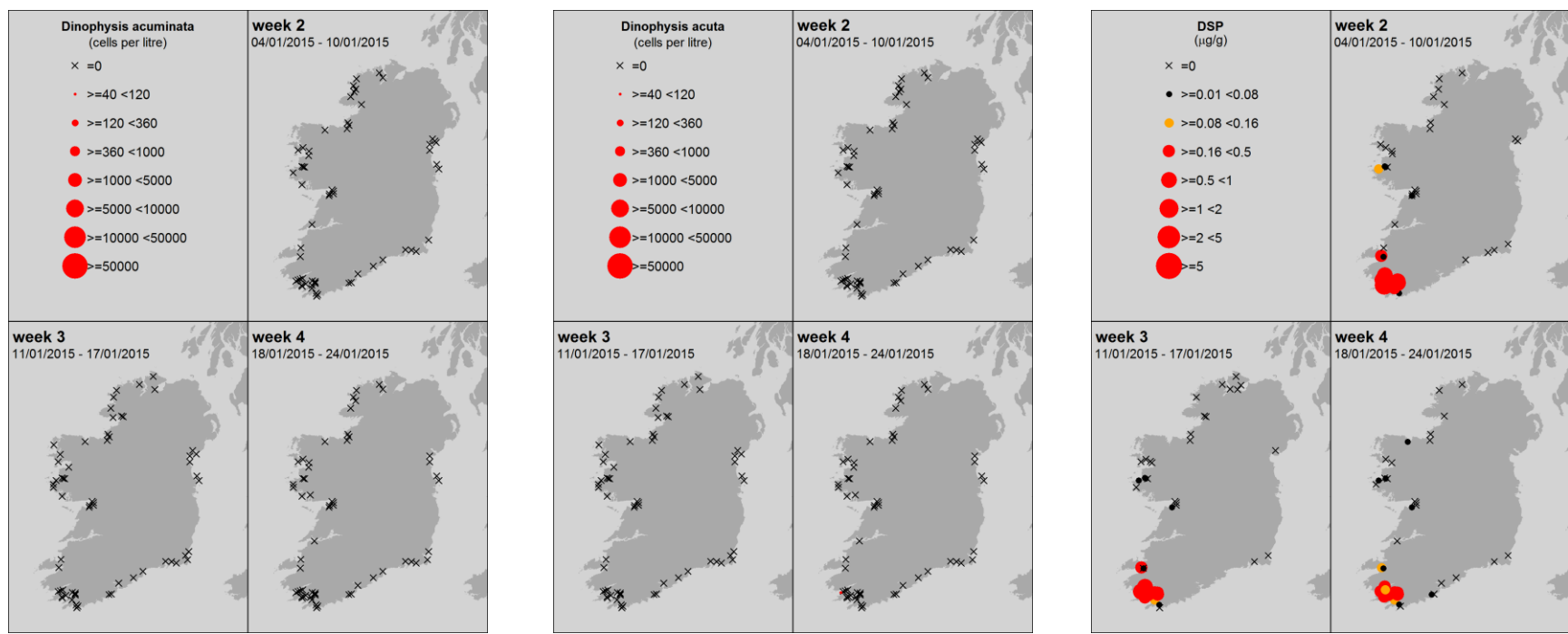
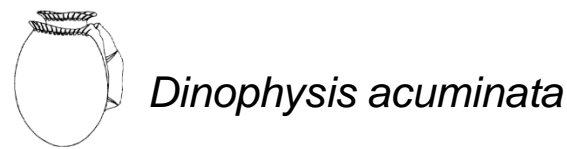
Karenia blooms: No blooms are expected to form in the next few days.

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: Last 3 weeks of available National Monitoring Programme data

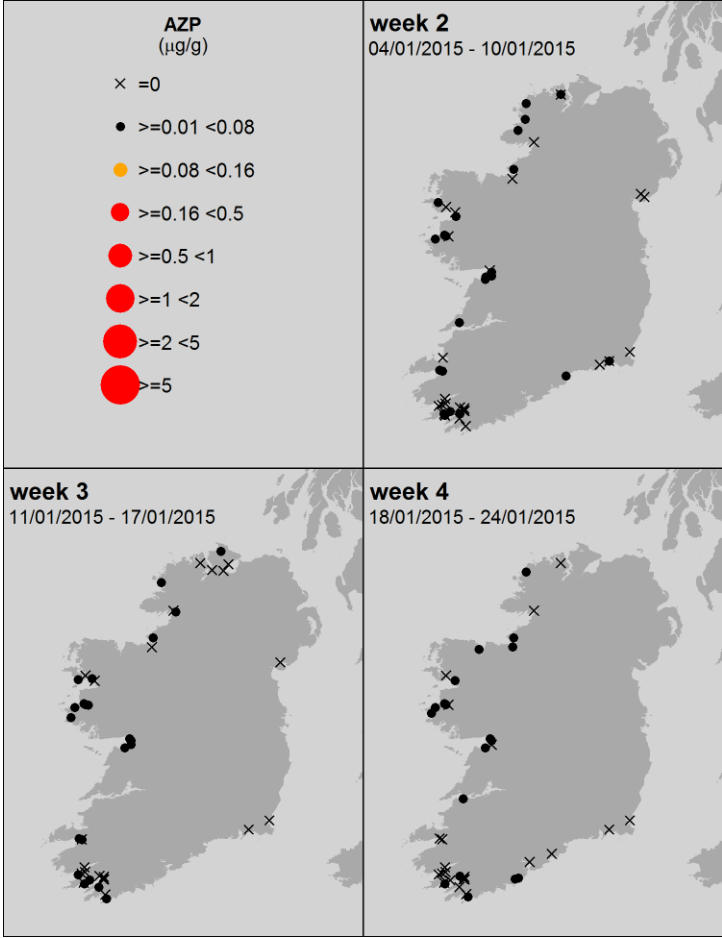
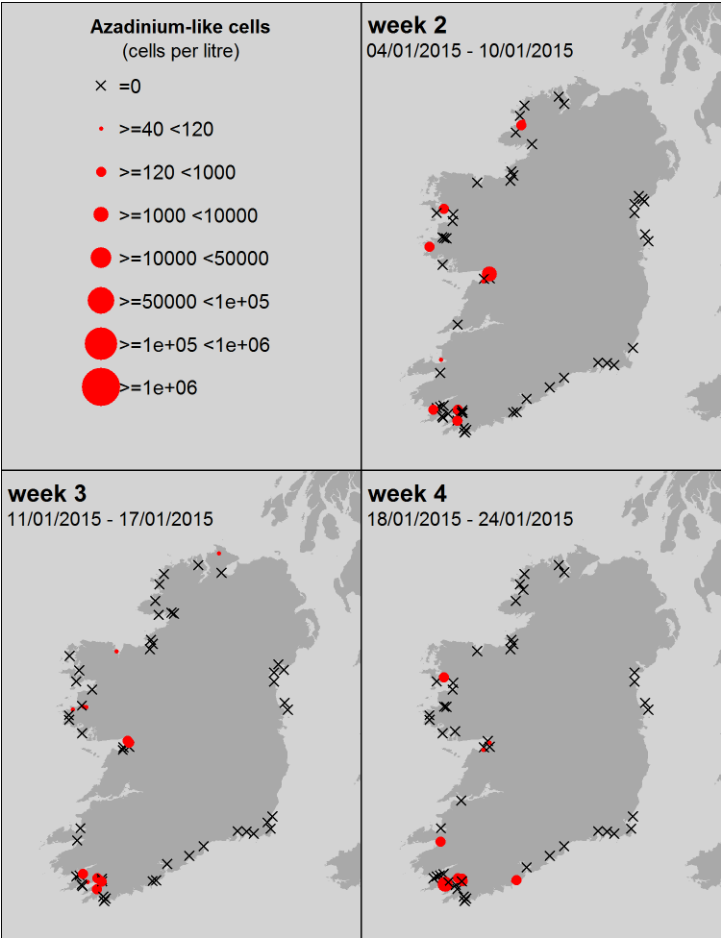


Ireland: Last 3 weeks of available National Monitoring Programme data

Azadinium – like spp.



AZP

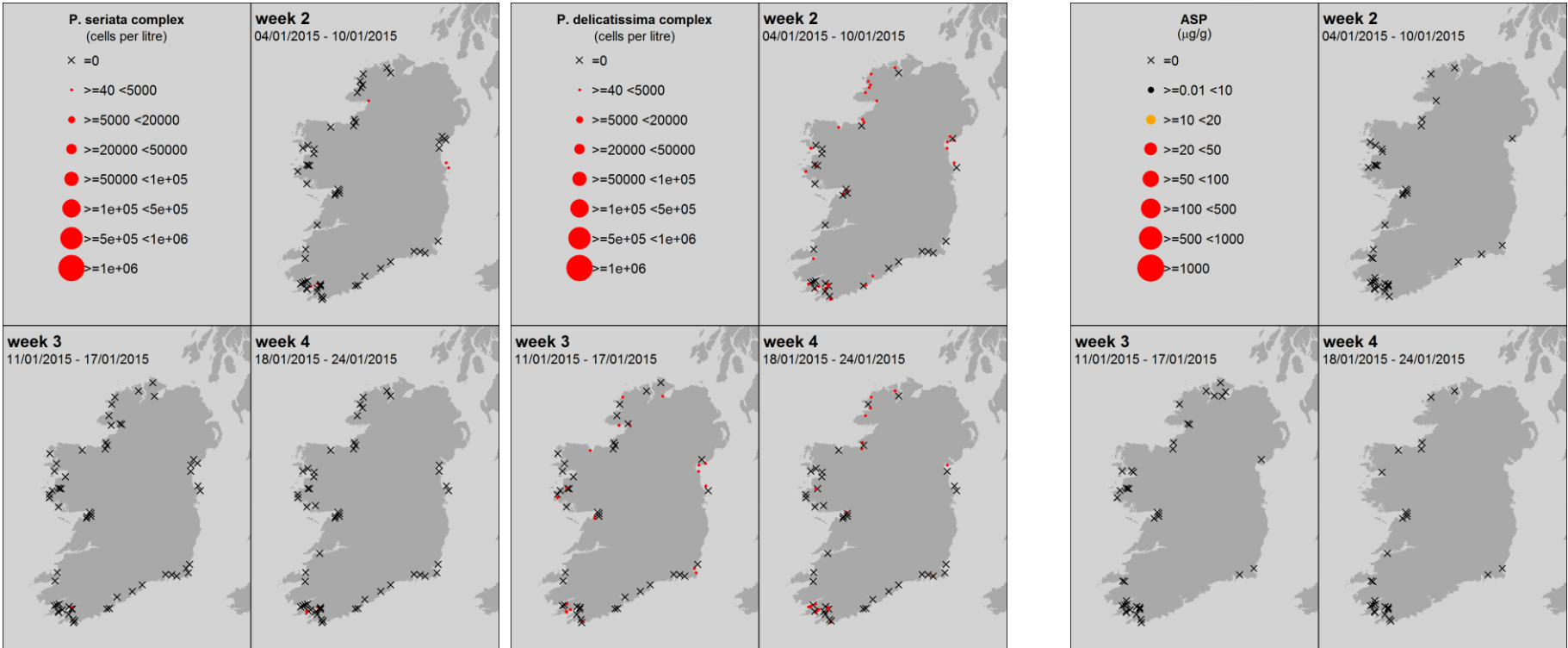


Ireland: Last 3 weeks of available National Monitoring Programme data

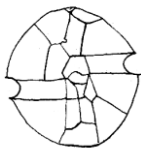
Pseudo-nitzschia spp.



ASP



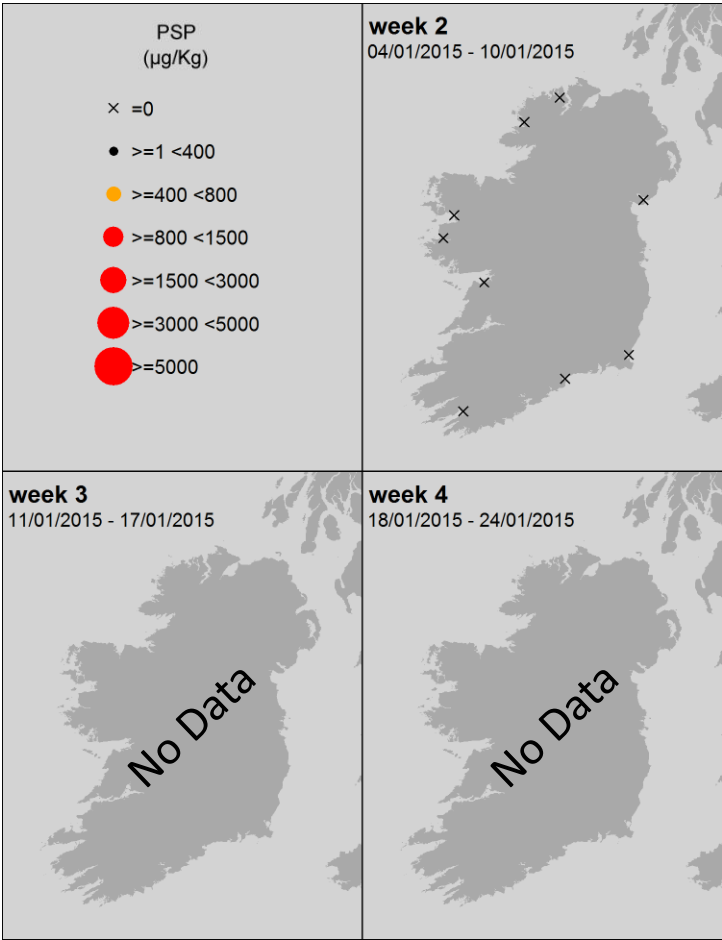
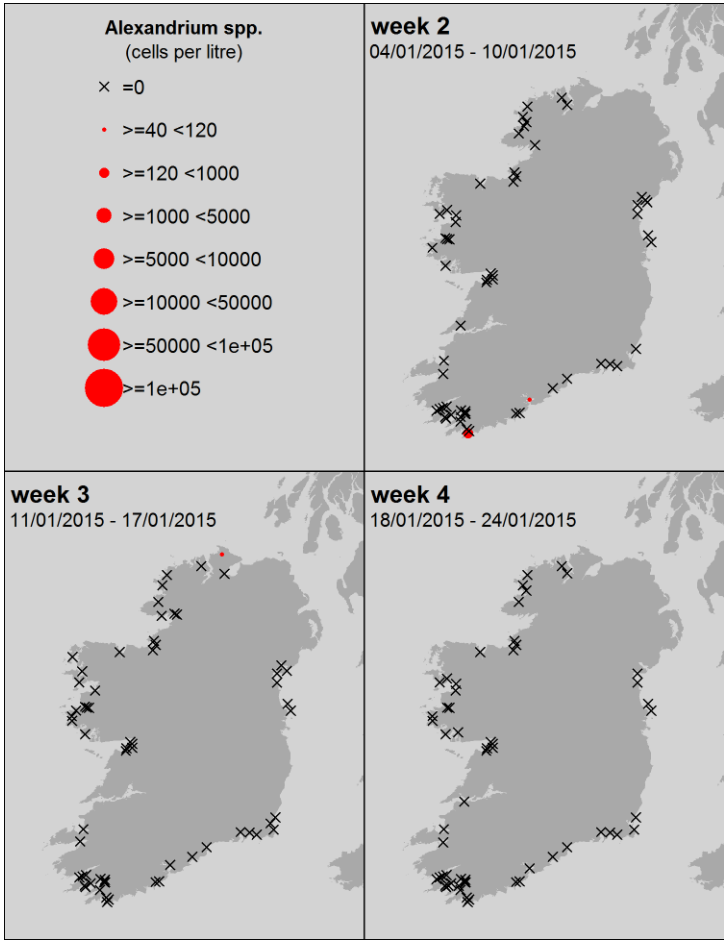
Ireland: Last 3 weeks of available National Monitoring Programme data



Alexandrium spp.

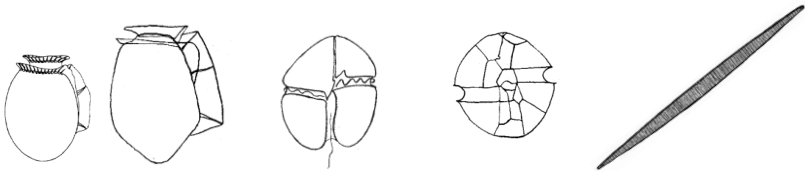


PSP

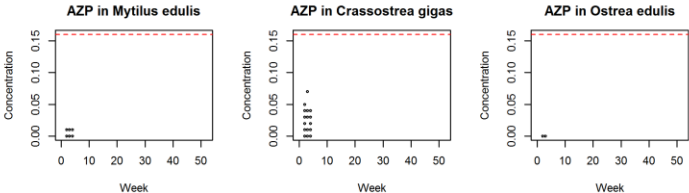


Ireland: HABs and biotoxins Levels from week 1 to present

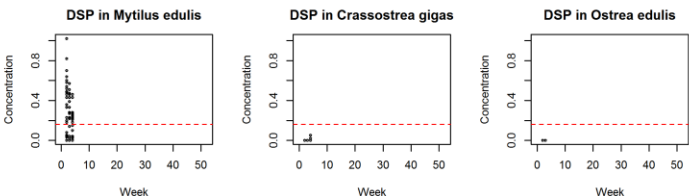
Ireland: Biotoxins



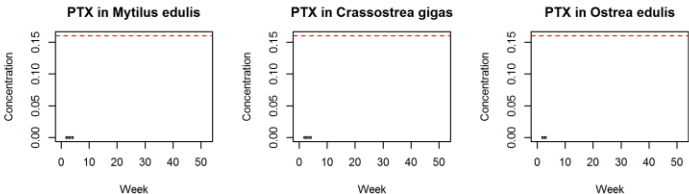
AZP



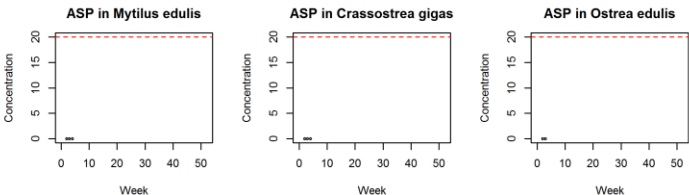
DSP



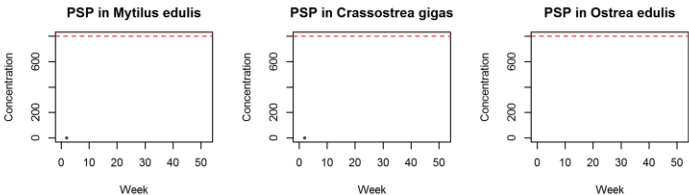
PTX



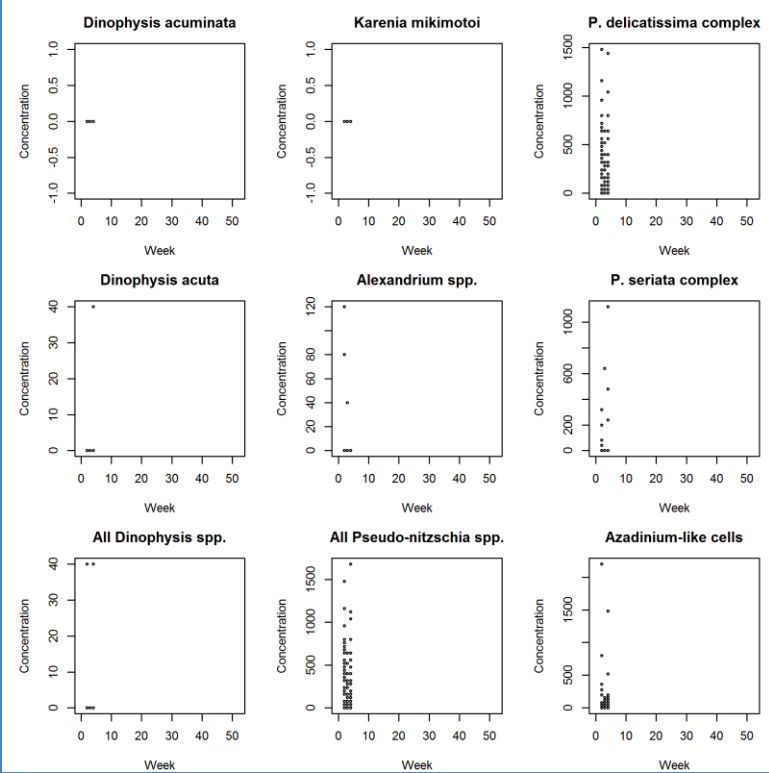
ASP



PSP



Ireland: HABs

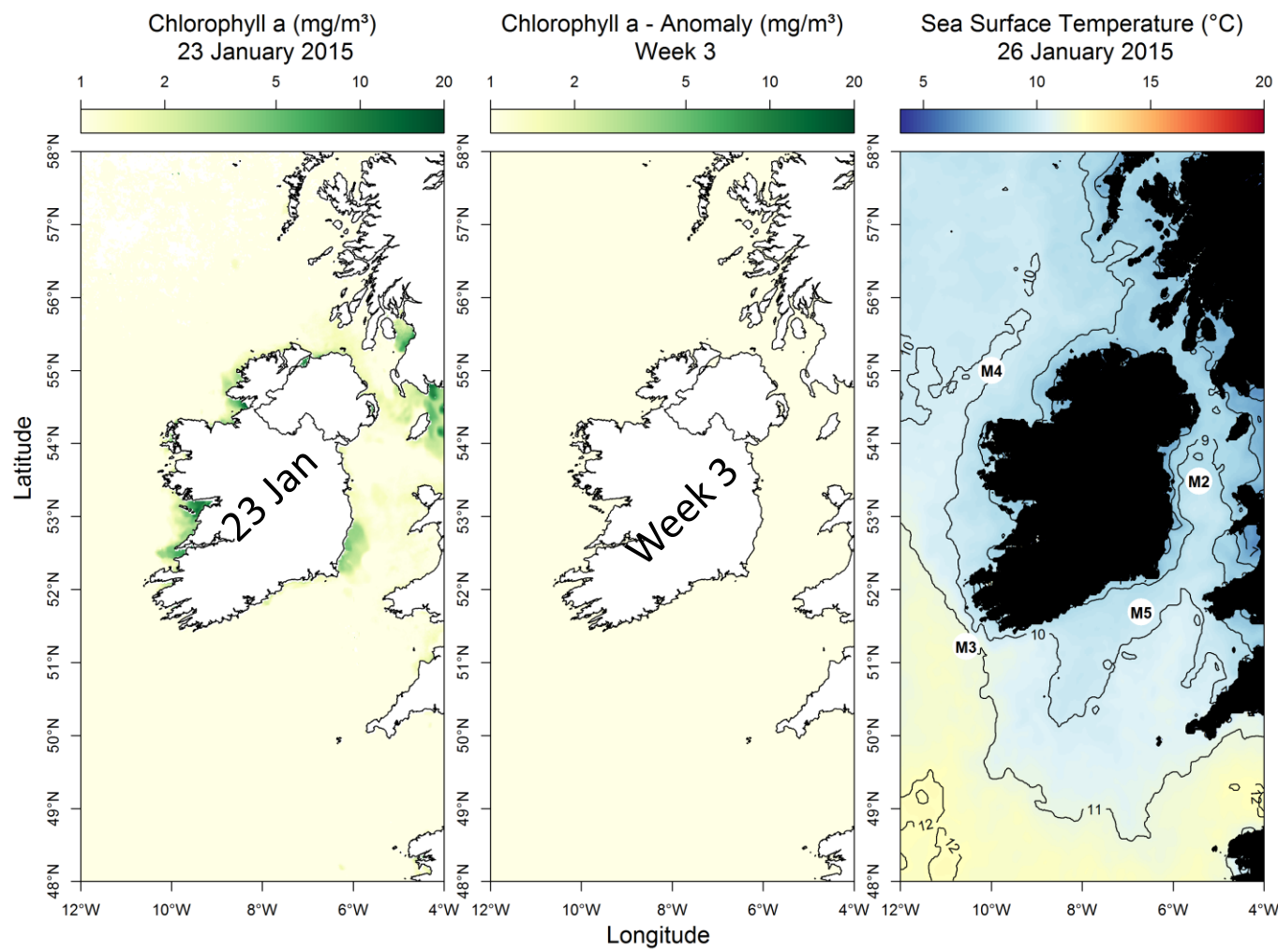


Week number: 1 to 4

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 3:
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)	<u>above average by 0.32 °C</u>
Southwest coast (M3)	<u>above average by 0.26 °C</u>
Southeast coast (M5)	Not available