

Ireland: Historic Trends, Current Conditions and Predictions

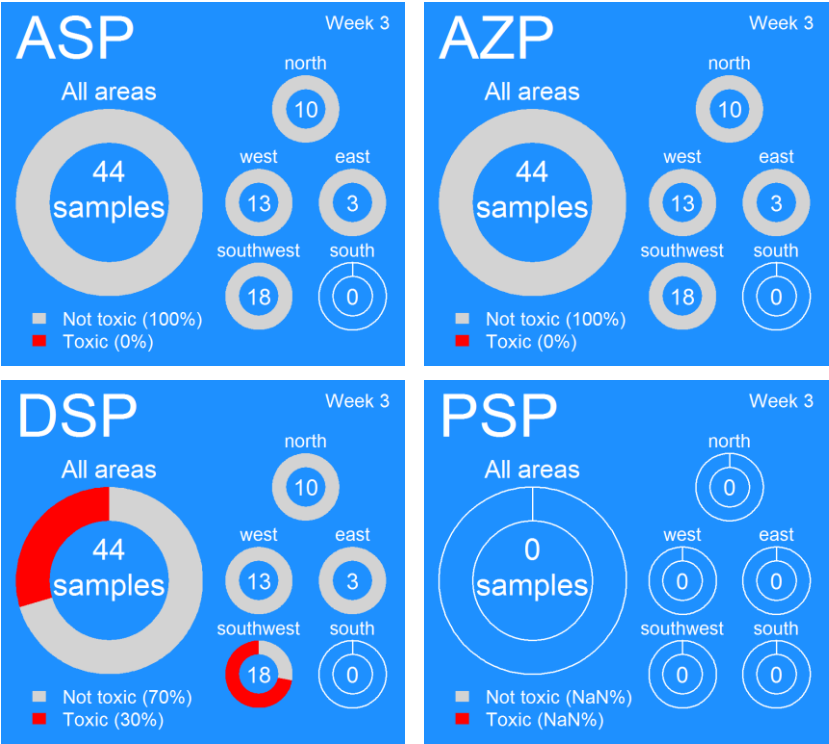
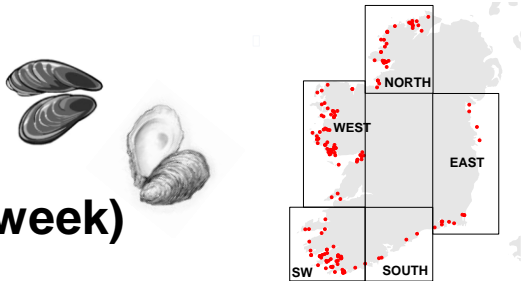
Ireland HISTORIC TRENDS
2003-2012 Shellfish Toxicity: does not include winter carry over of biotoxins
ASP events: weeks 11 to 18 (mid-March to early May)
AZP events: weeks 17 to 51 (April to December)
DSP events: weeks 19 to 51 (May to December)
PSP events: weeks 23, 25-28 (June to mid-July) and 38-39 (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 & 2014)
Southwest coast: AZP (2006, 2007, 2013 & 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 still a low risk period of the year for all sites. No biotoxin detected in recent weeks. *Pseudo-nitzschia* cell densities are low (< 1,000 cells/L).
AZP: Biotoxins have remained below EU regulatory levels. However, *Azadinium* - like cells are present at very low levels (< 150 cells/L) at some sites. Historical data demonstrates that this biotoxin can be present in shellfish at this time of year, this is usually the result of winter carry over from late autumn contamination events.
DSP: *Dinophysis acuminata* and *D. acuta* not detected. While chemistry results continue to remain above EU regulatory levels at sites where contamination was high, levels have dropped by ~ 30 % on average in long-line mussels over the past two weeks. Depuration likely to continue to be slow as phytoplankton growth is low at this time of year.
PSP: Historically this a low risk period of the year for all sites. Background cell levels (40 cells/L at some sites) *Alexandrium* spp. detected in the north last week. No biotoxins.

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

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

Ireland: Last 3 weeks of available National Monitoring Programme data



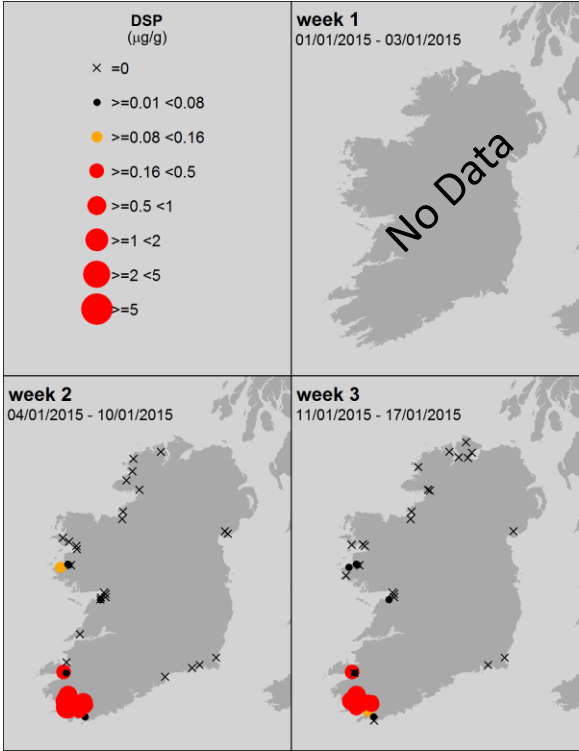
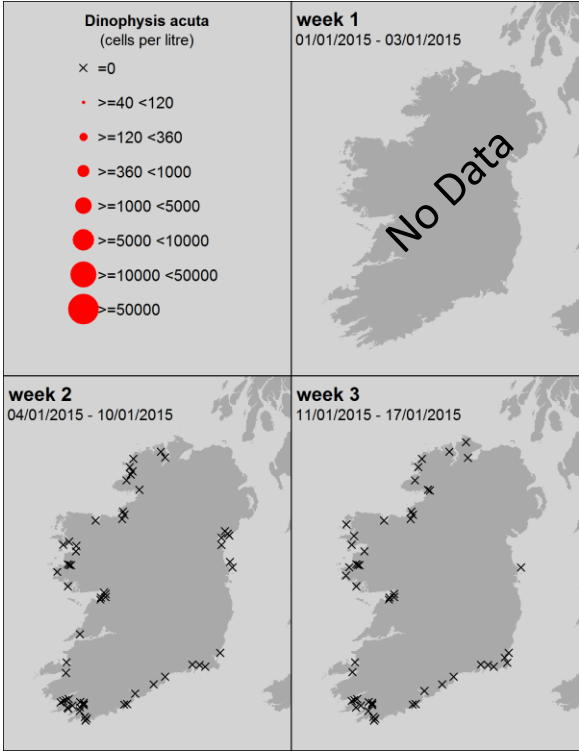
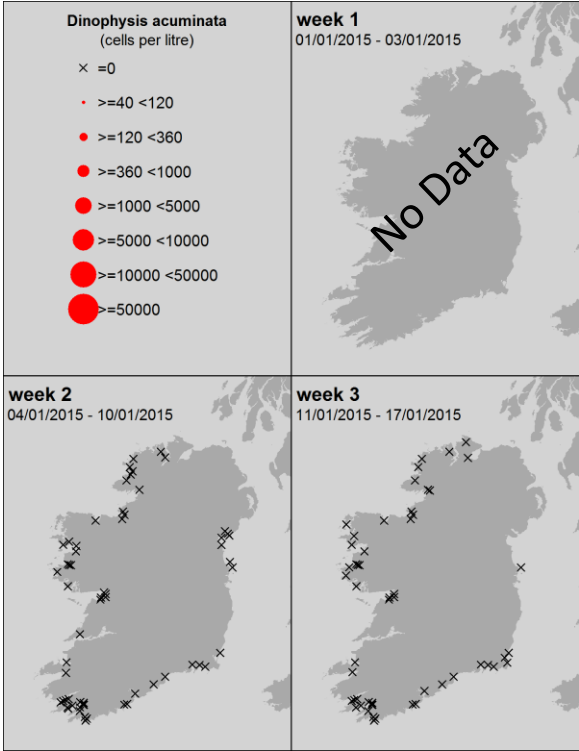
Dinophysis acuminata



Dinophysis acuta



DSP

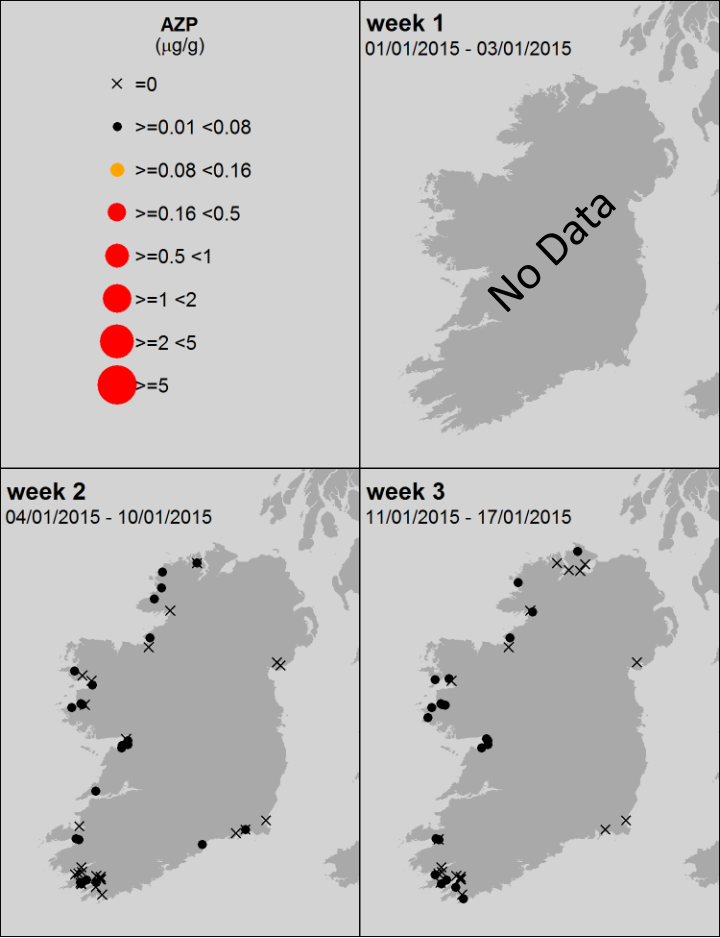
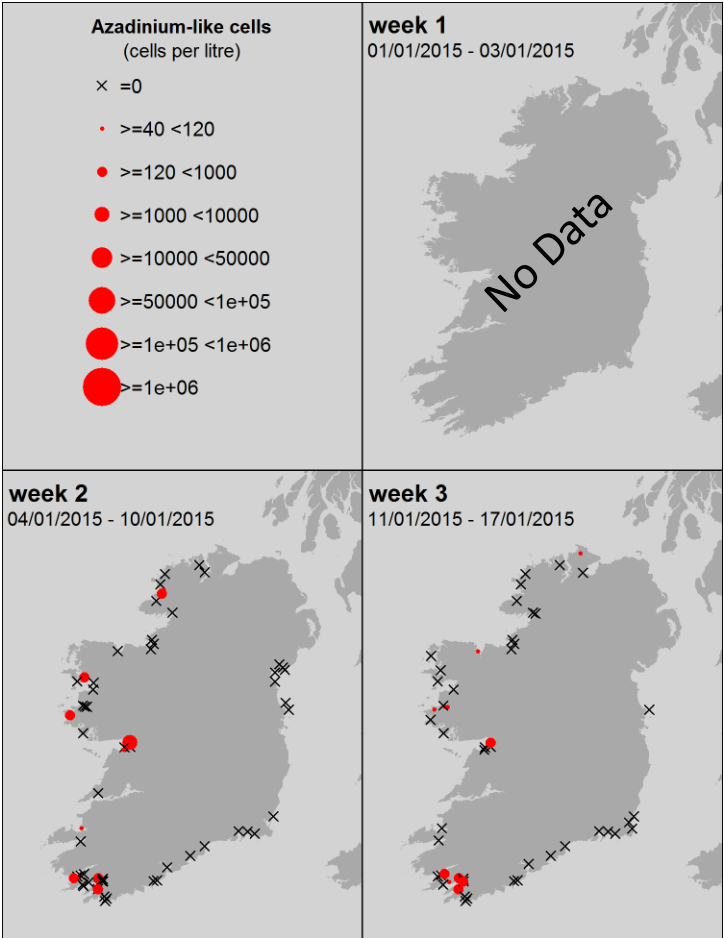


Ireland: Last 3 weeks of available National Monitoring Programme data

Azadinium – like spp.



AZP

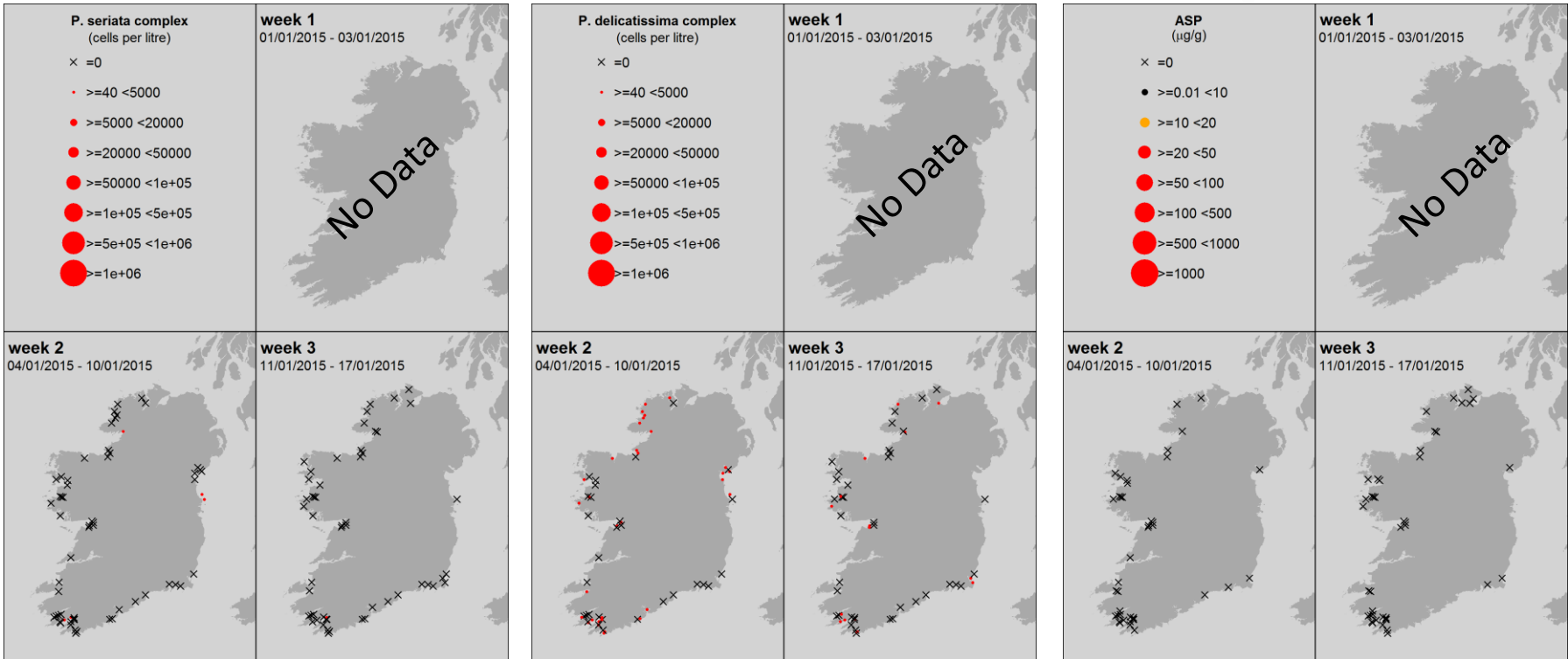


Ireland: Last 3 weeks of available National Monitoring Programme data

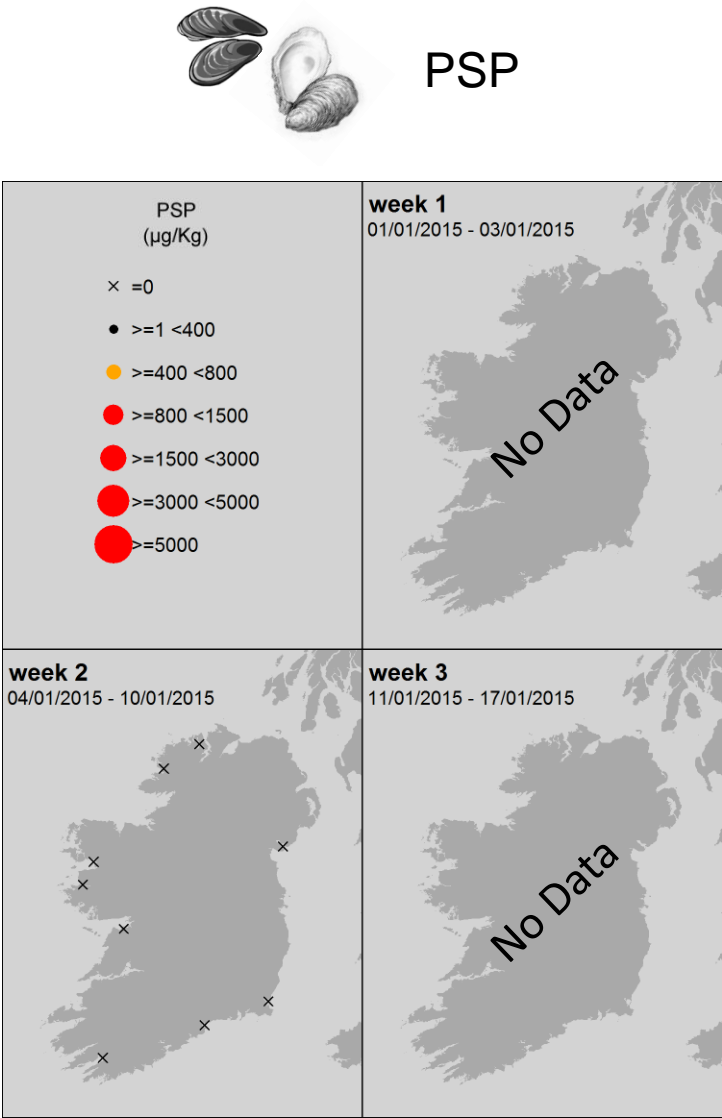
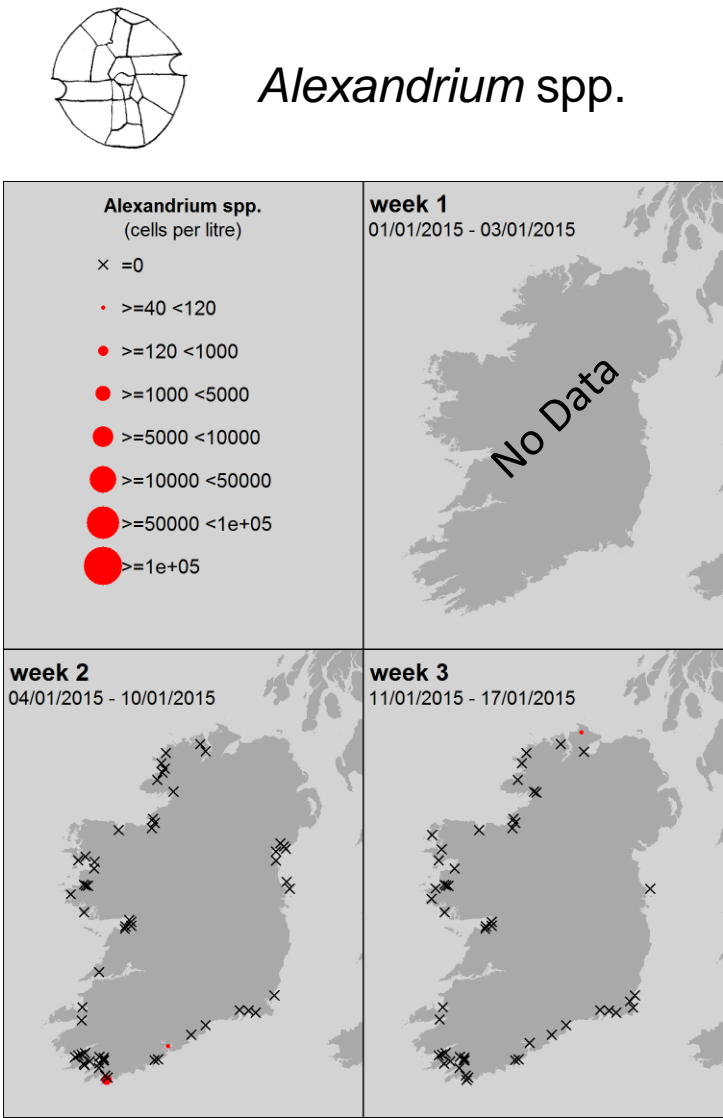
Pseudo-nitzschia spp.



ASP

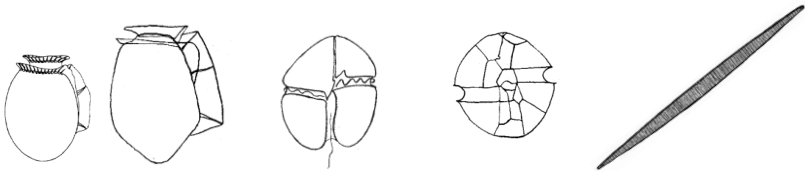


Ireland: Last 3 weeks of available National Monitoring Programme data

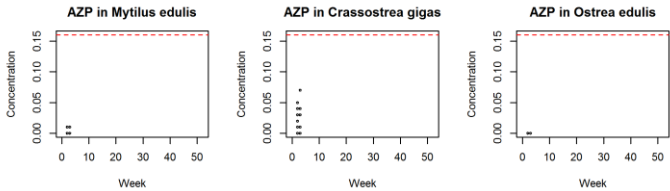


Ireland: HABs and biotoxins Levels from week 1 to present

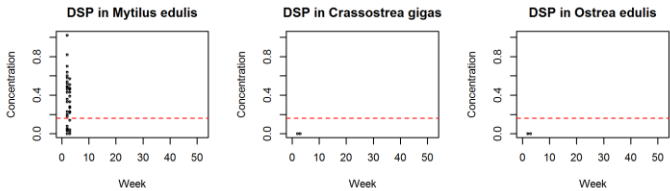
Ireland: Biotoxins



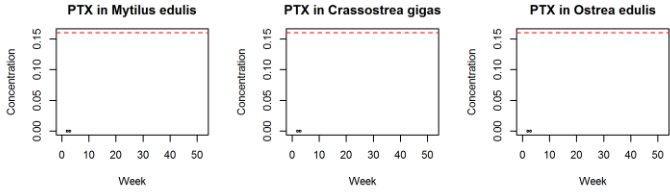
AZP



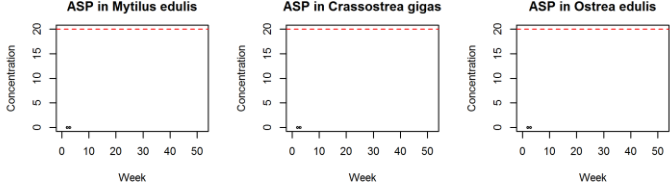
DSP



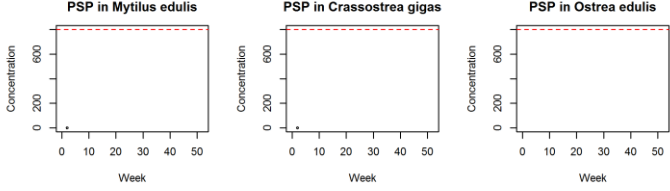
PTX



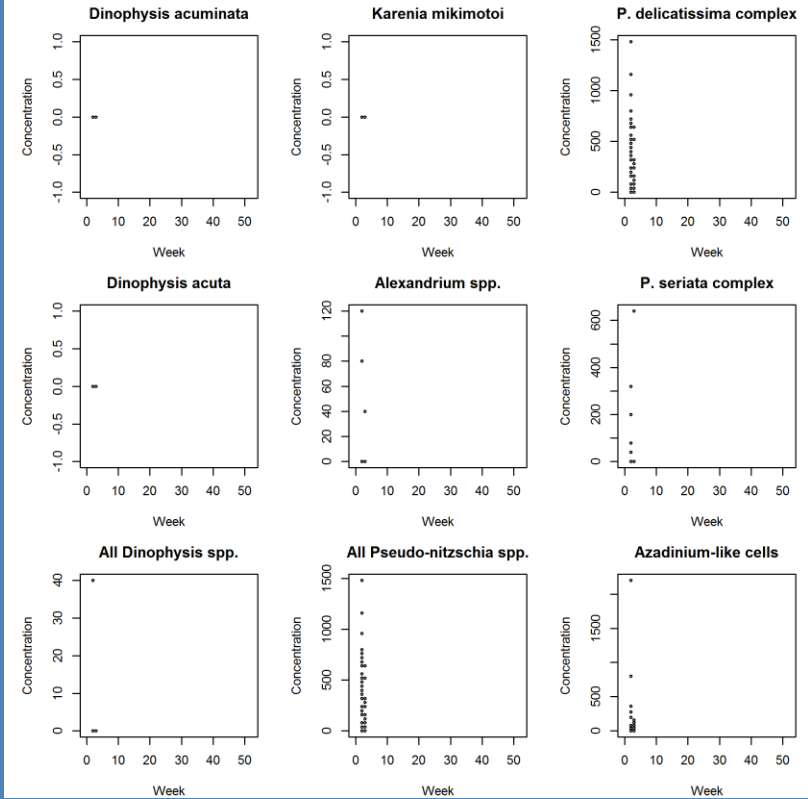
ASP



PSP



Ireland: HABs

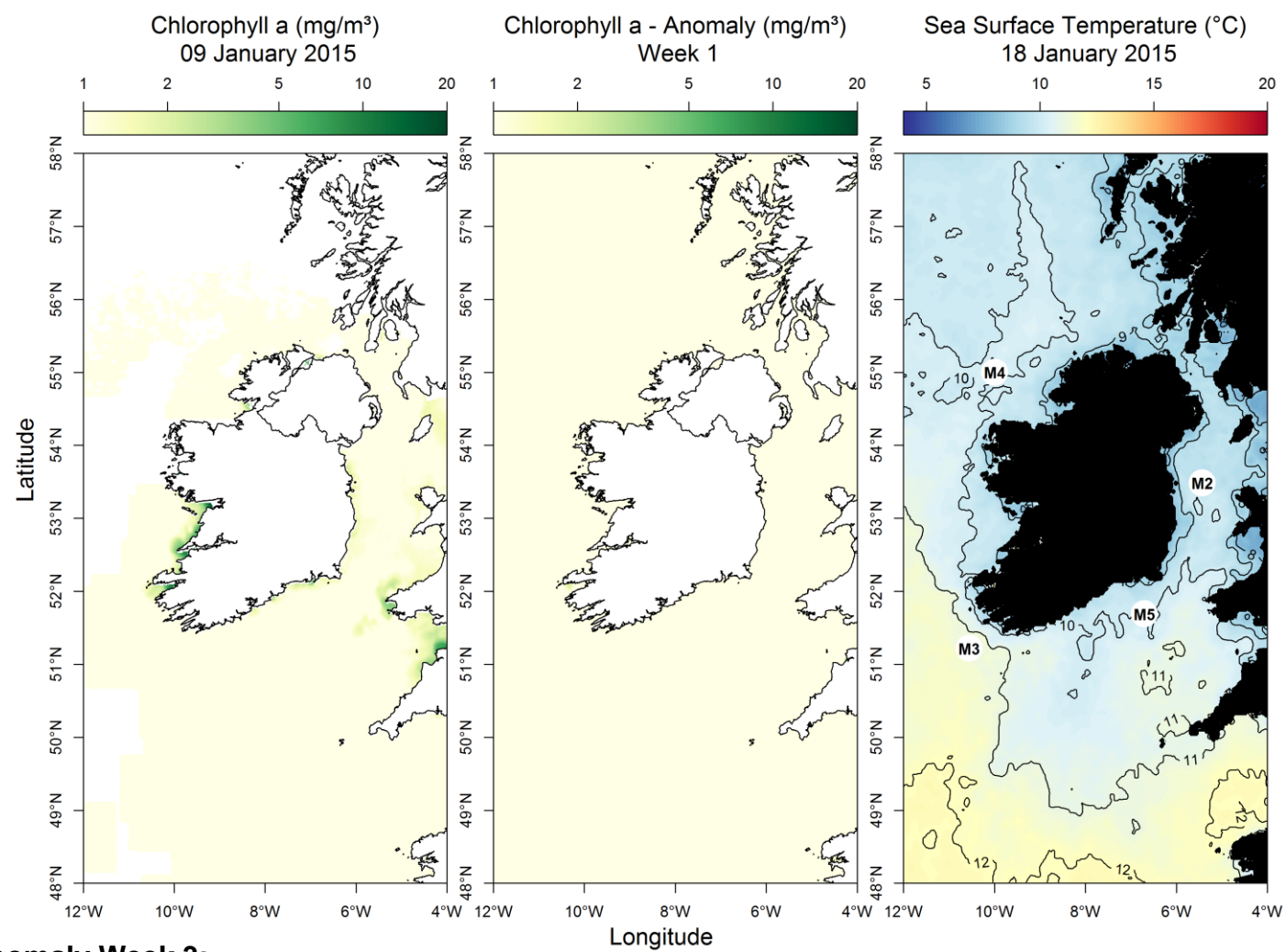


Week number: 1 to 3

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) above average by 0.47 °C
- Southwest coast (M3) above average by 0.44 °C
- Southeast coast (M5) above average by 0.66 °C