

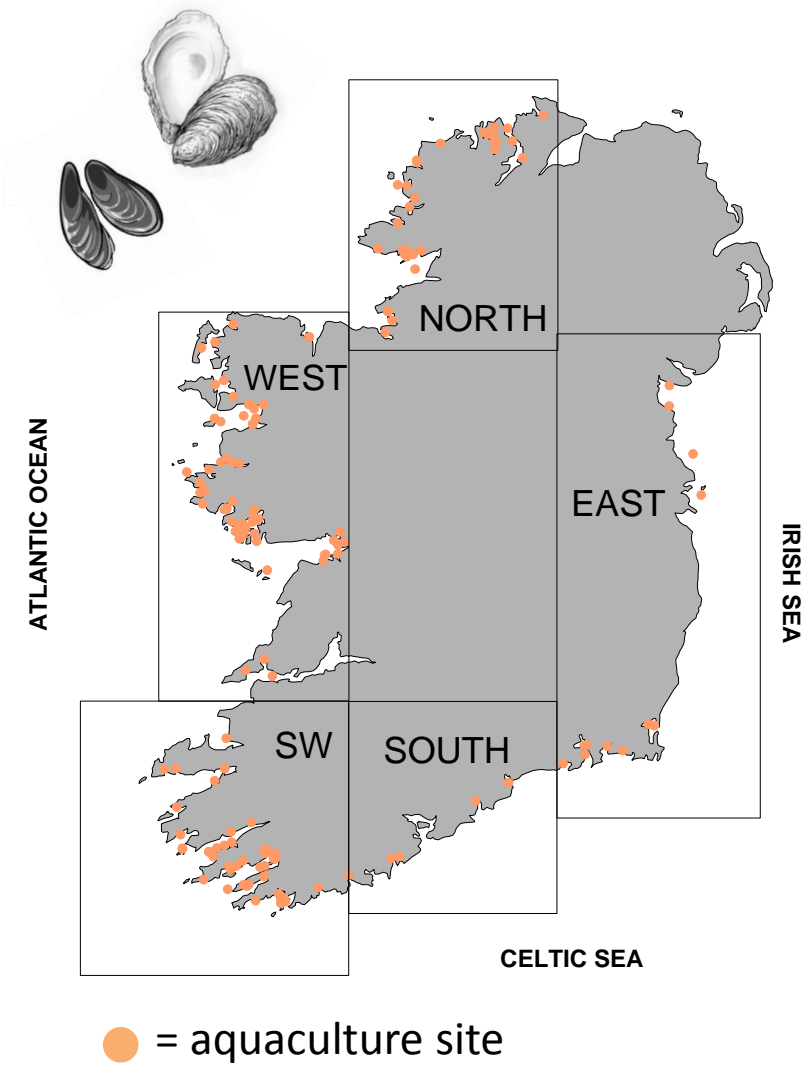
Ireland: Current Conditions

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

National Monitoring Programme Designated Sampling Sites



Ireland: Predictions

Prediction for this week:

ASP event: Increased 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: *Pseudo-nitzschia* cell densities continue to increase. ~ 140,000 max cells/L in the southwest; population dominated by the “*P. delicatissima*” size group. However the potentially toxic “*P. seriata*” size group have reached densities up to 50,000 cells/L at some sites (species composition to be determined). No biotoxin detected in recent weeks.

AZP: Background levels at many sites. *Azadinium* - like densities low at a max of 320 cells/L along the western seaboard. Low toxin levels with the max at 0.06 µg/g in oysters on the west coast.

DSP: *Dinophysis acuminata* and *D. acuta* not detected. Chemistry levels of Okadaic acid & equiv. continue to fall slowly (max. now at 0.22 µg/g in SW mussels). In general, site contamination likely to continue to decrease slowly, with local fluctuations in levels, related to presence and abundance of non toxic phytoplankton.

PSP: Historically this a low risk period of the year for all sites. *Alexandrium* spp. at low levels (40 cells/L) in the south and southwest. No biotoxins.

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



2003-2012 Shellfish Toxicity: does not include winter carry over of biotoxins

ASP events: weeks 11 to 18 (mid-March to early May)

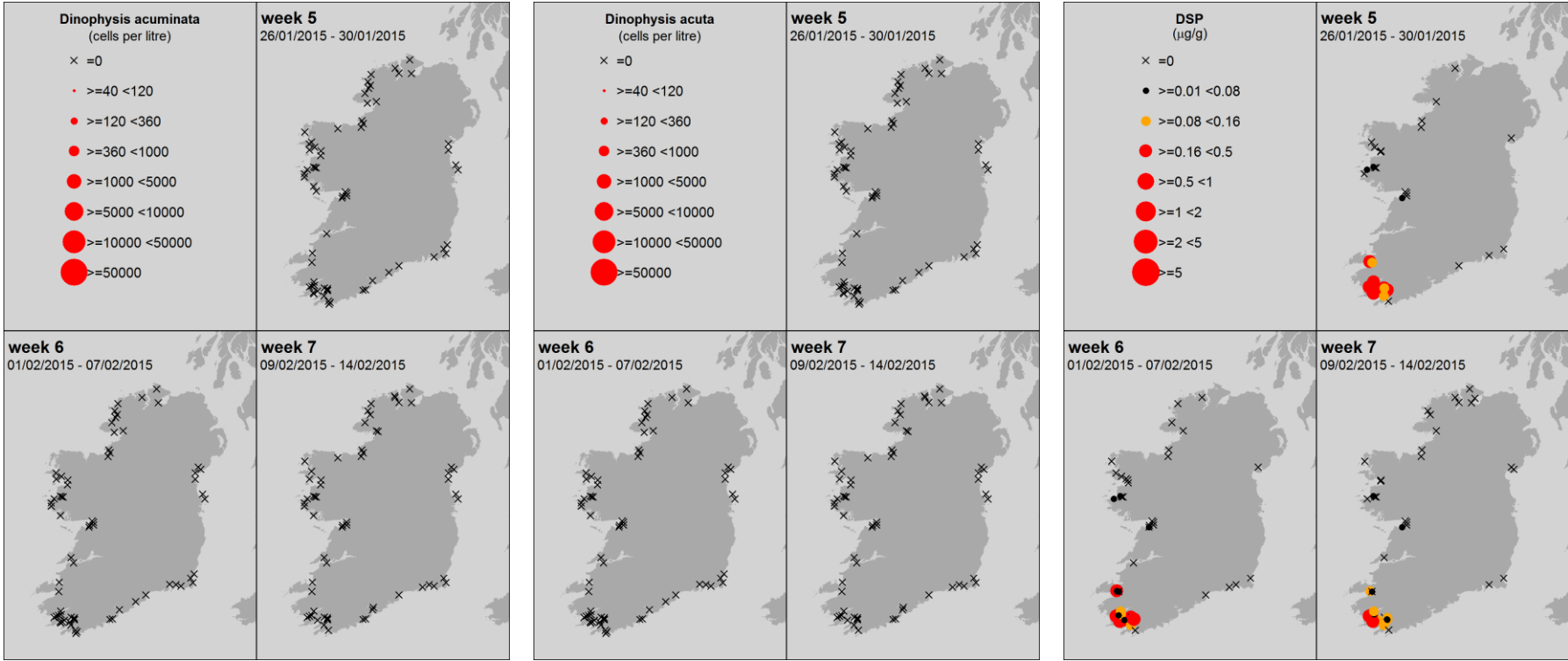
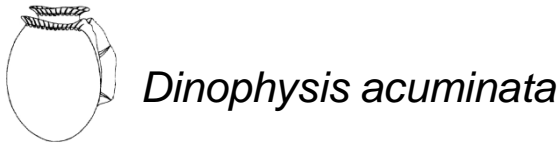
AZP events: weeks 17 to 51 (April to December)

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

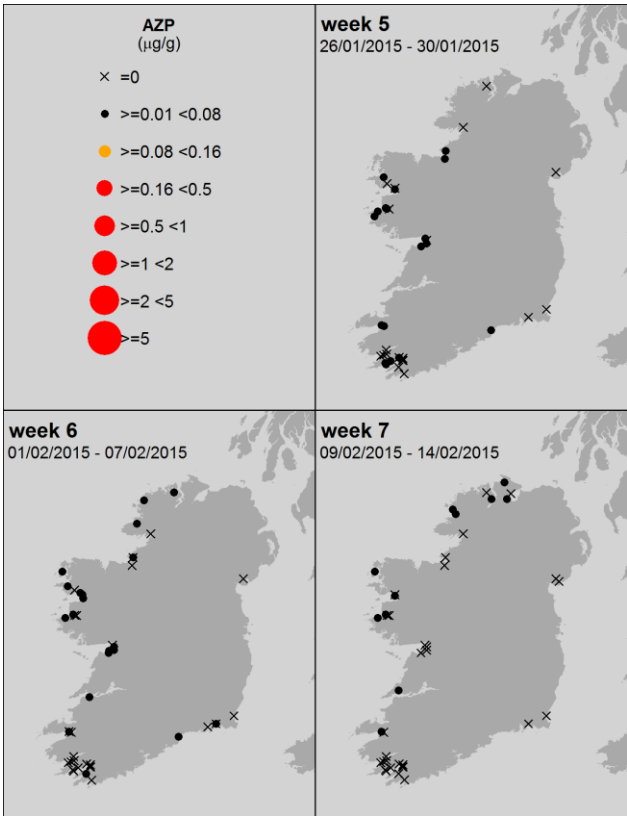
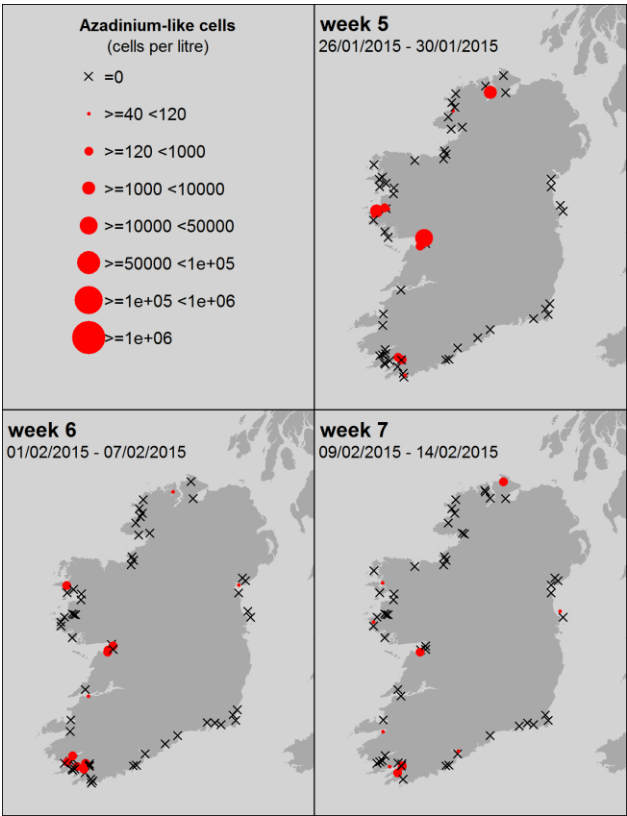


Ireland: Last 3 weeks of available National Monitoring Programme data

Azadinium – like spp.



AZP

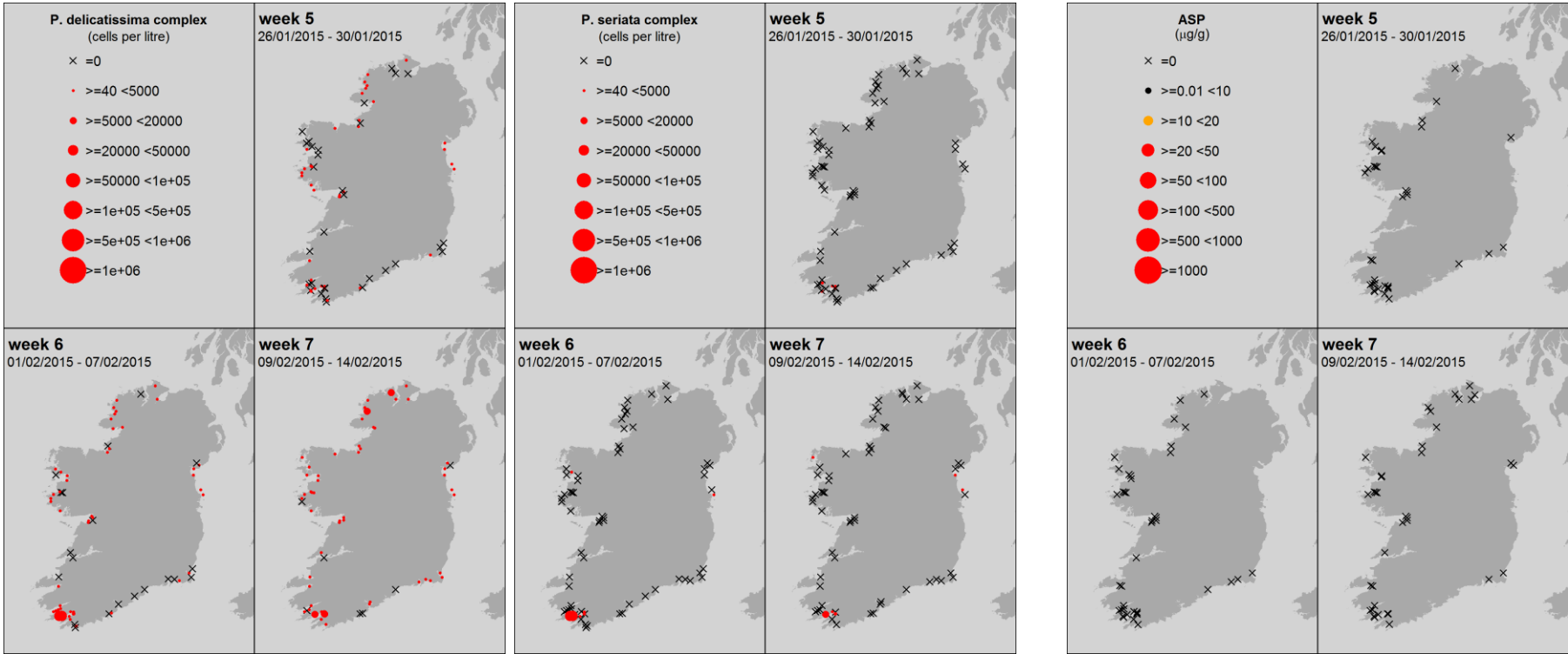


Ireland: Last 3 weeks of available National Monitoring Programme data

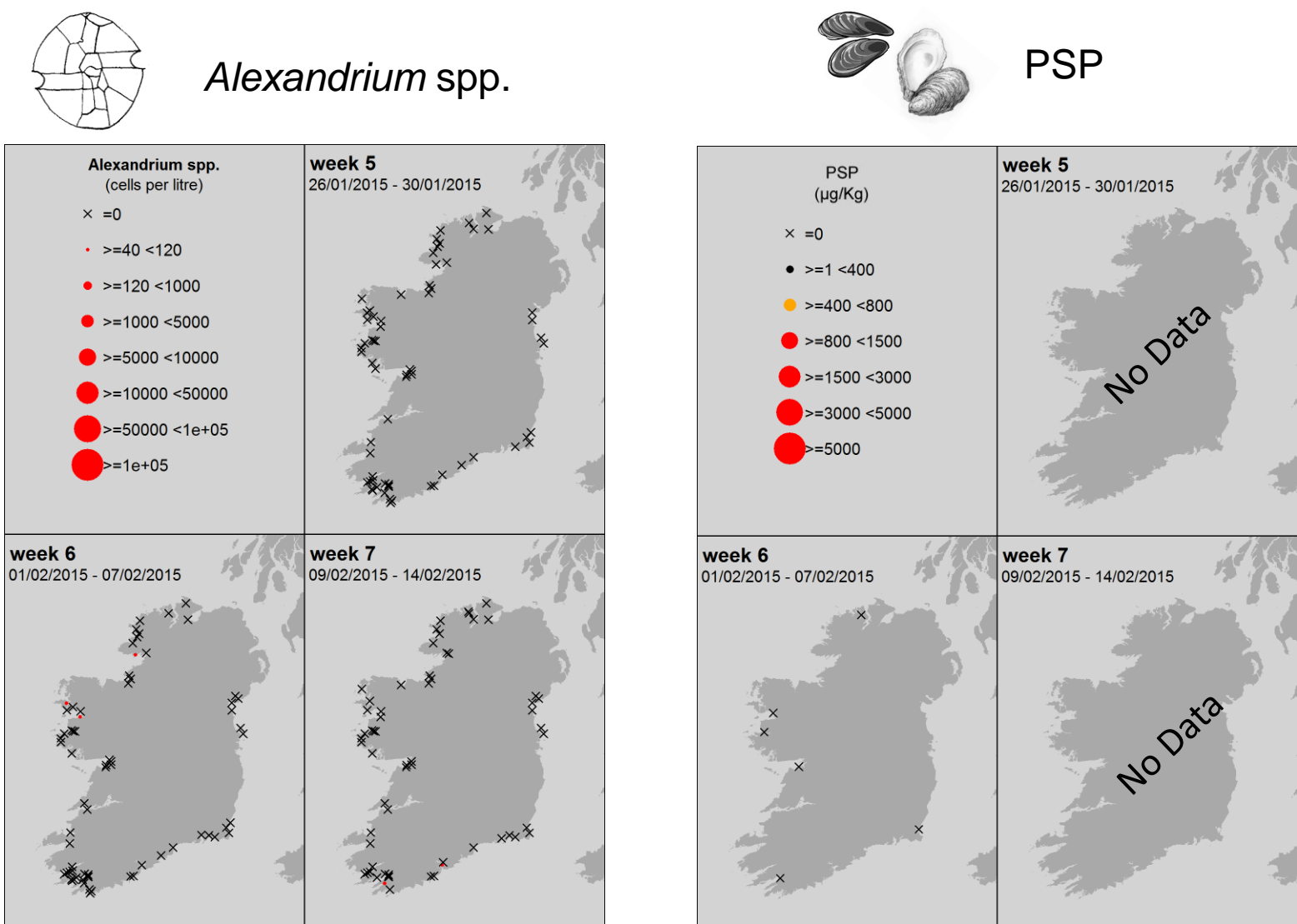
Pseudo-nitzschia spp.



ASP

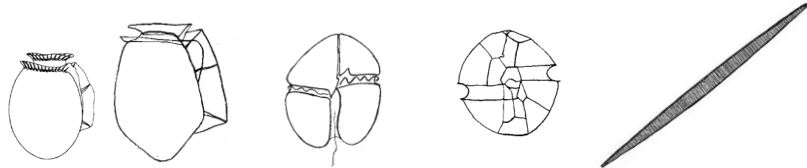


Ireland: Last 3 weeks of available National Monitoring Programme data

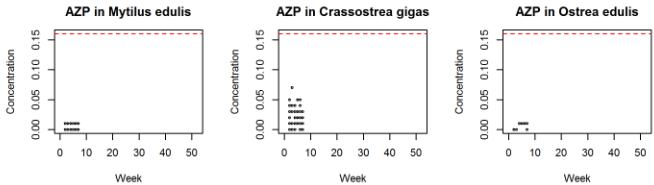


Ireland: HABs and biotoxins Levels from week 1 to present

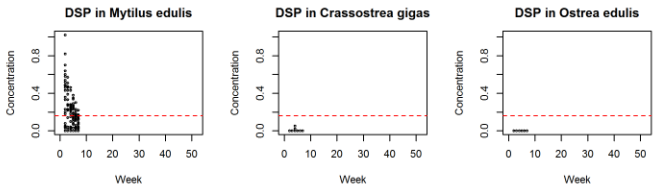
Ireland: Biotoxins



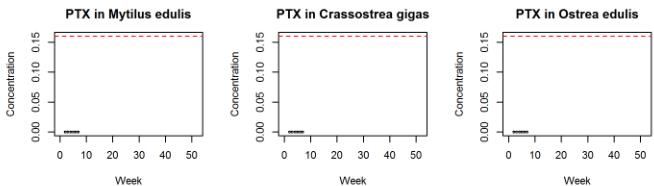
AZP



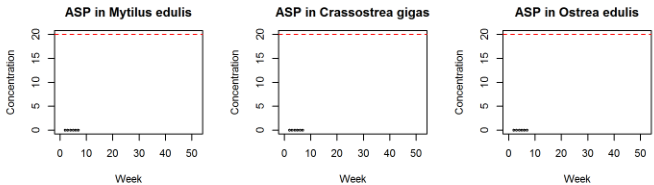
DSP



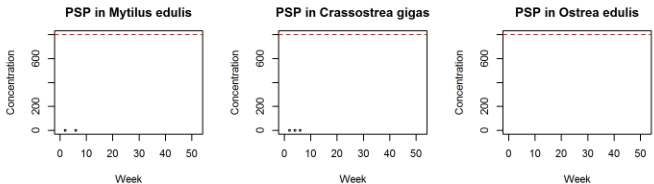
PTX



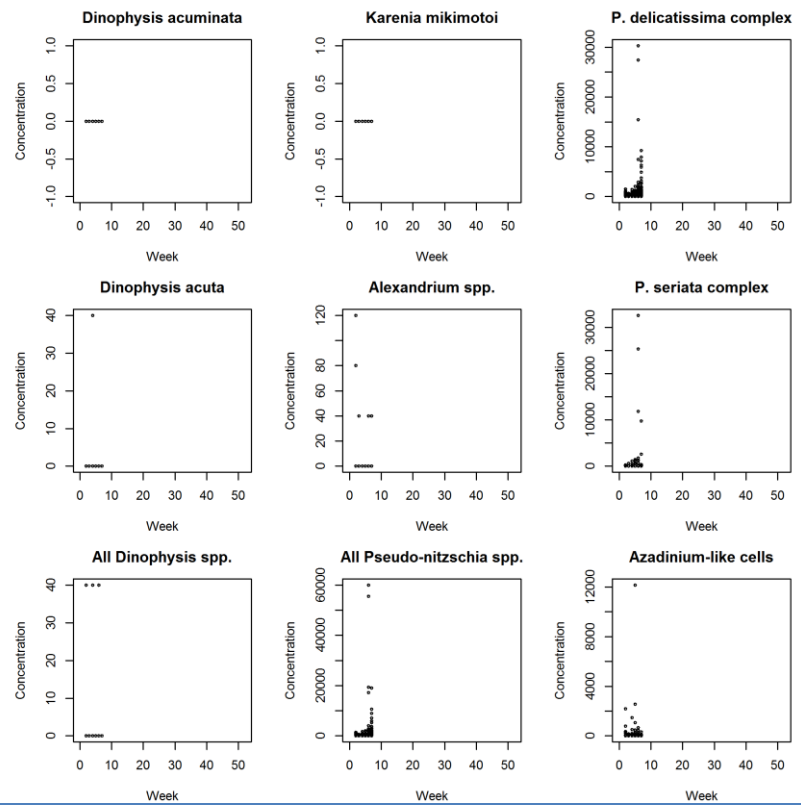
ASP



PSP



Ireland: HABs



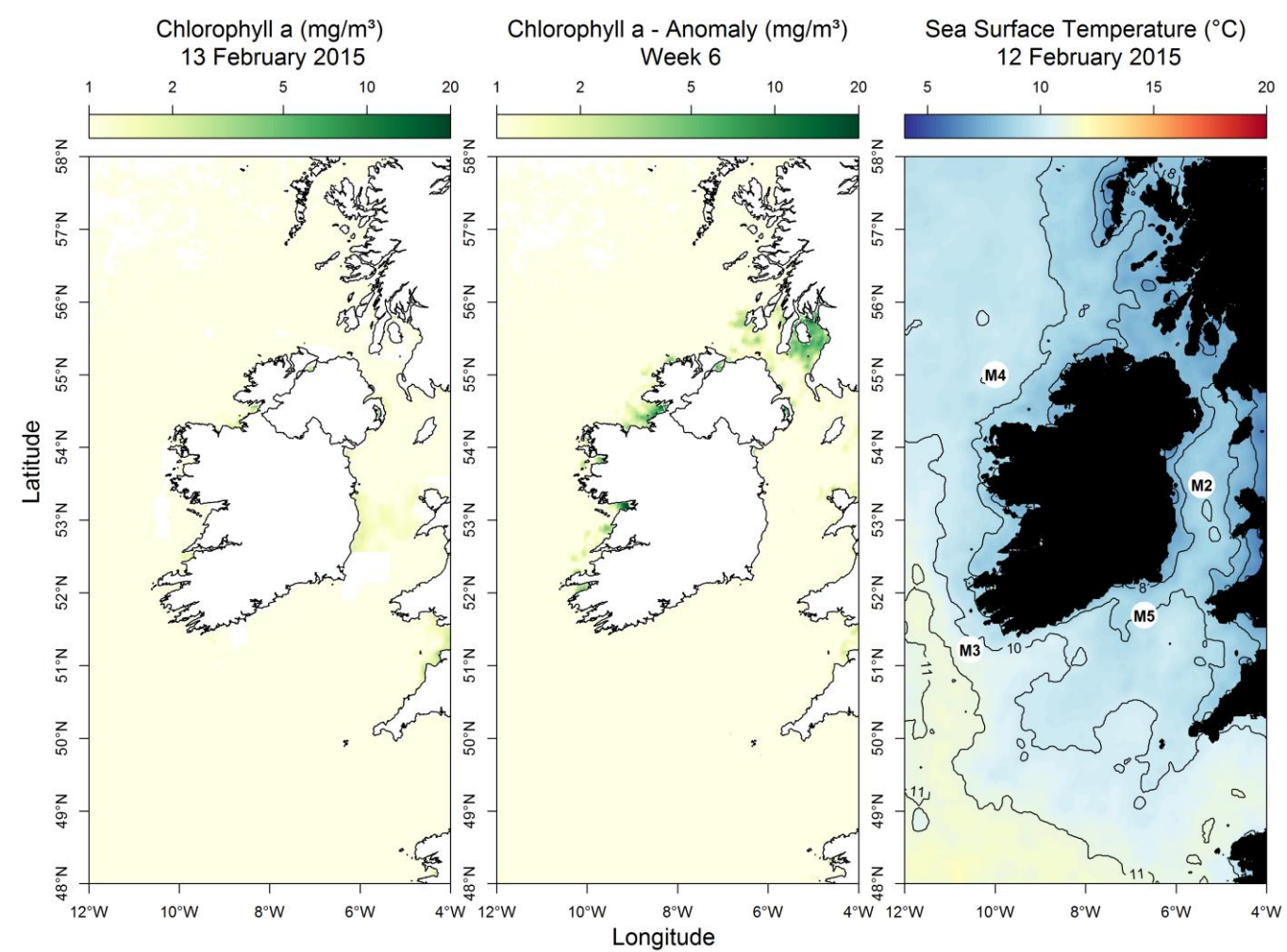
Week number: 1 to 7

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

“Technical difficulties have resulted in a delay on this weeks data”



SST (°C) anomaly Week 7:
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>below average by 0.04 °C</u>
Southwest coast (M3)	<u>above average by 0.03 °C</u>
Southeast coast (M5)	Not available