

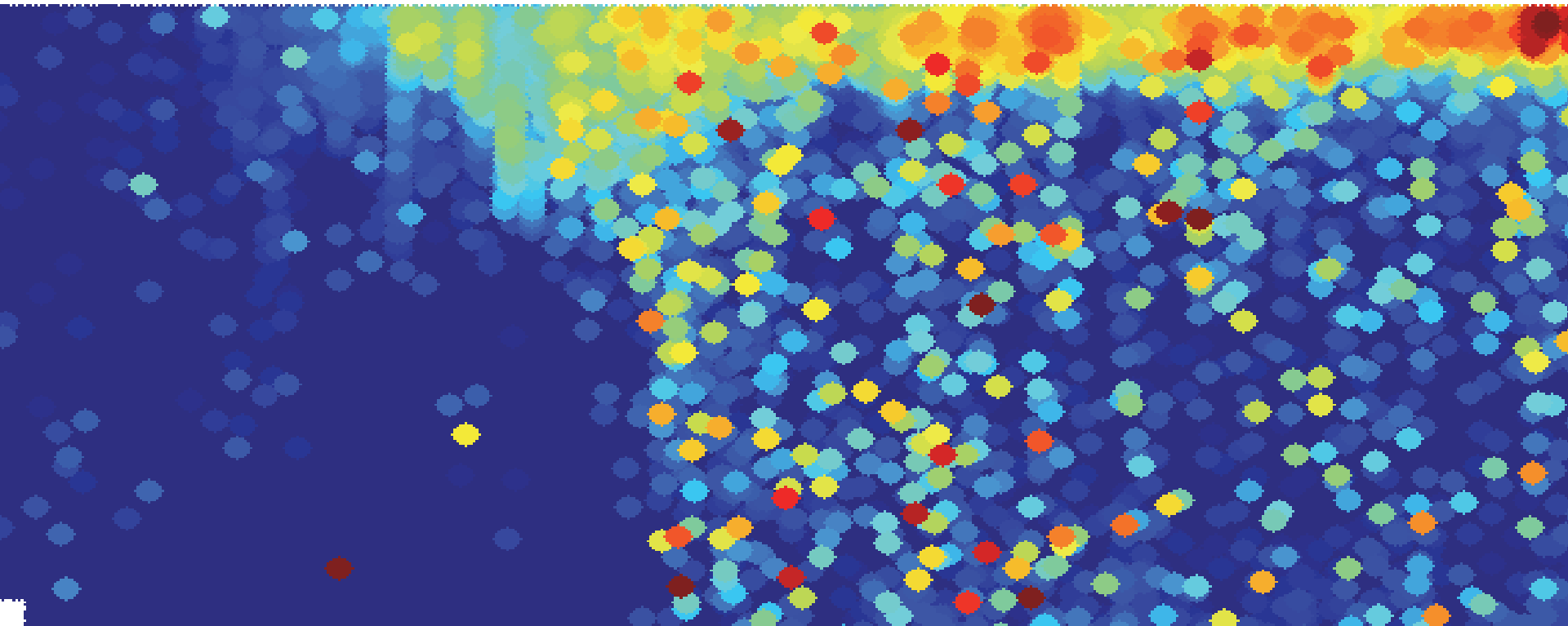


SOUTHERN OCEAN AND CLIMATE
FIELD STUDIES WITH INNOVATIVE TOOLS

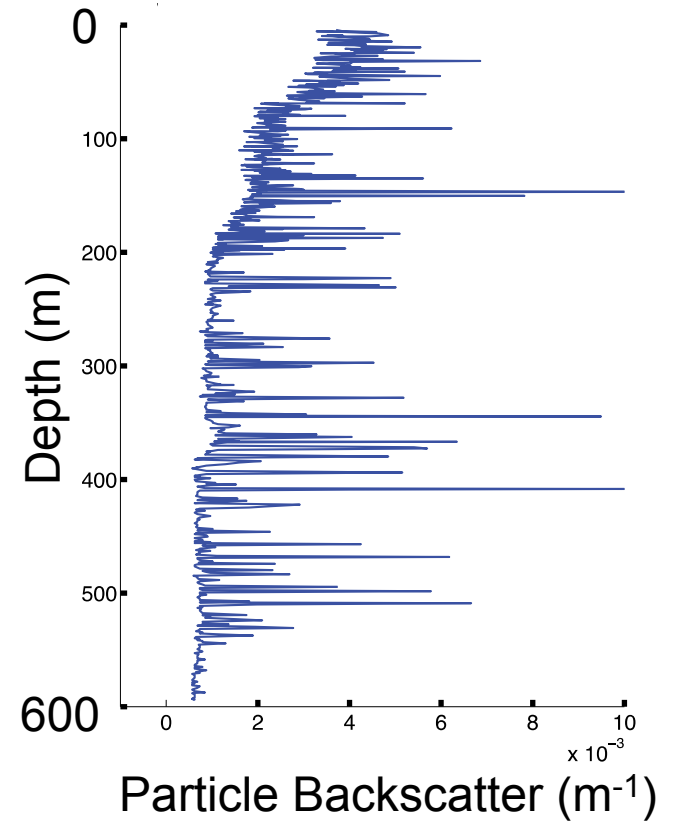
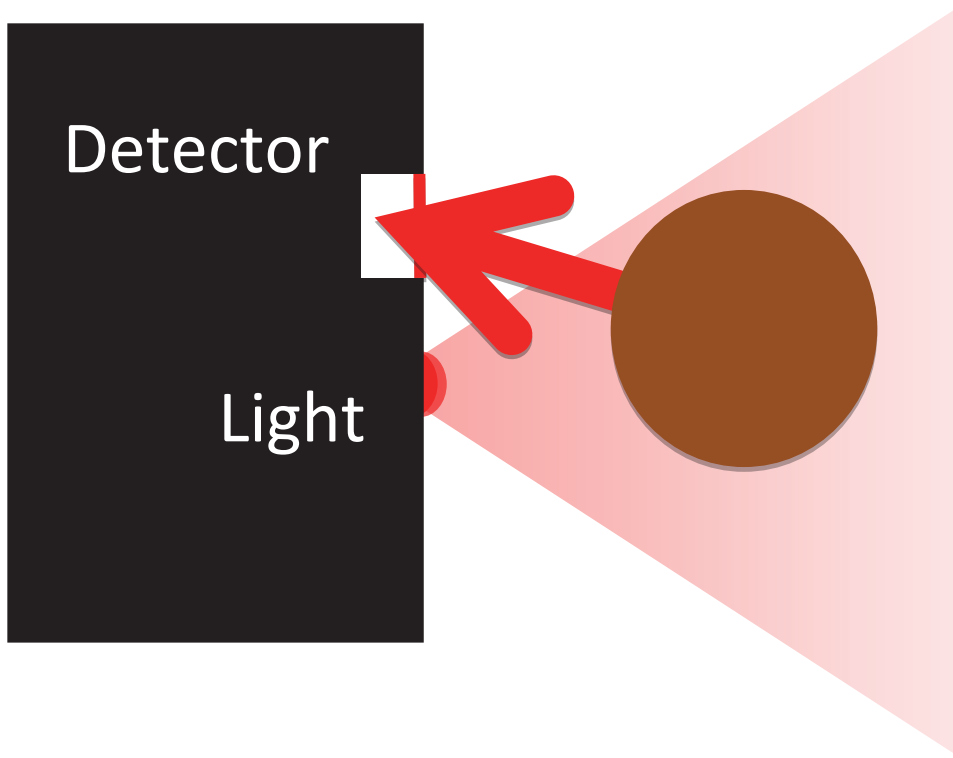
Tracking large particle sinking flux from bio-argo

Nathan Briggs – Postdoc, Claustre lab

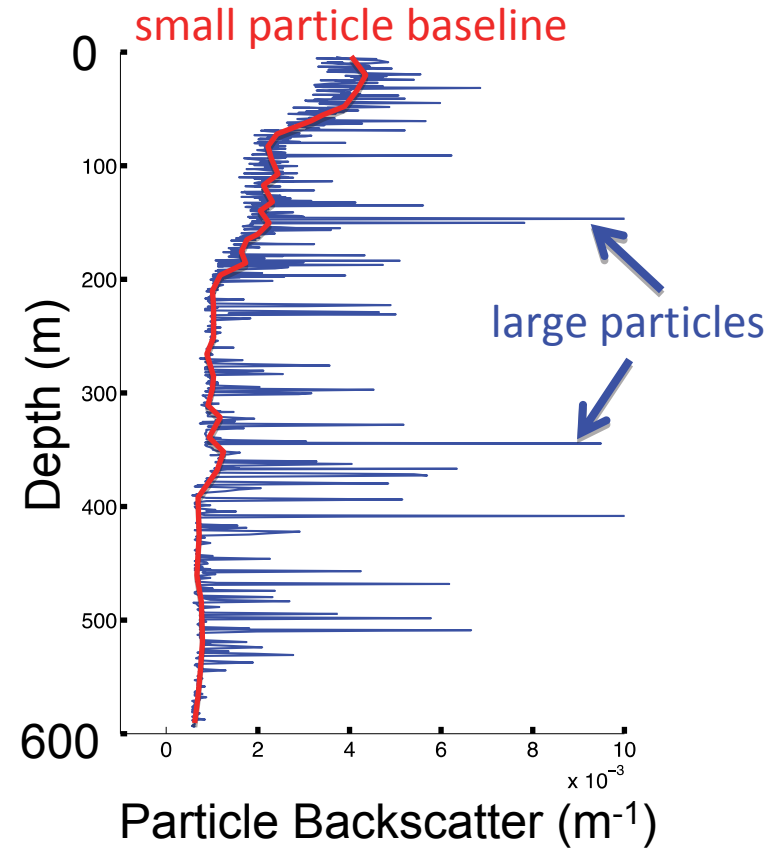
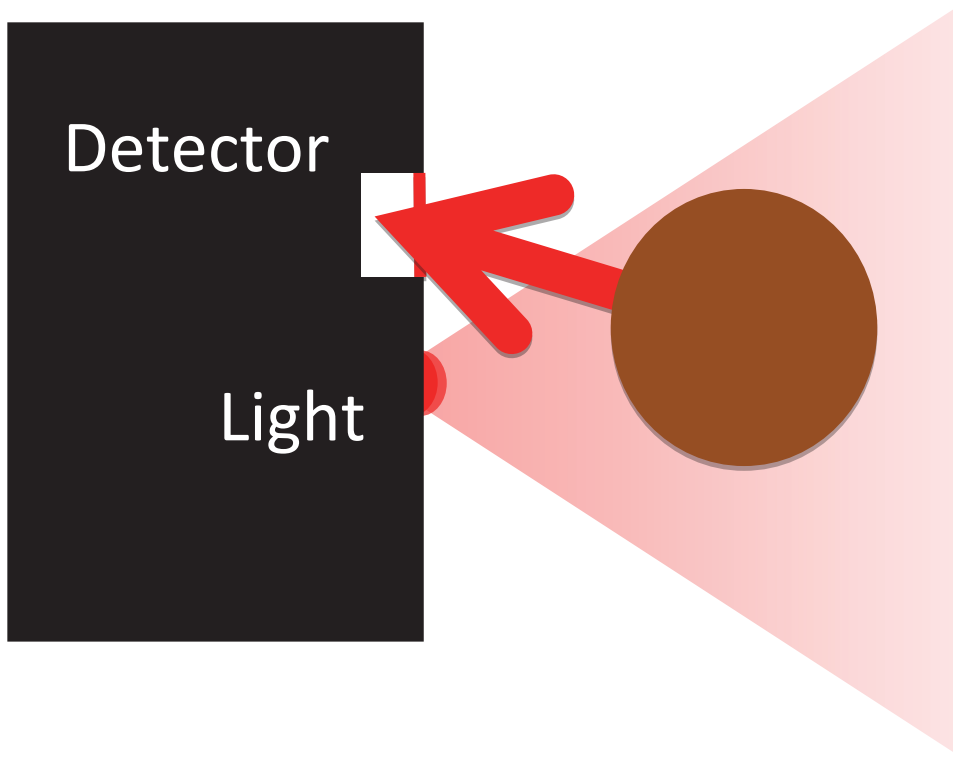
May 26, 2015



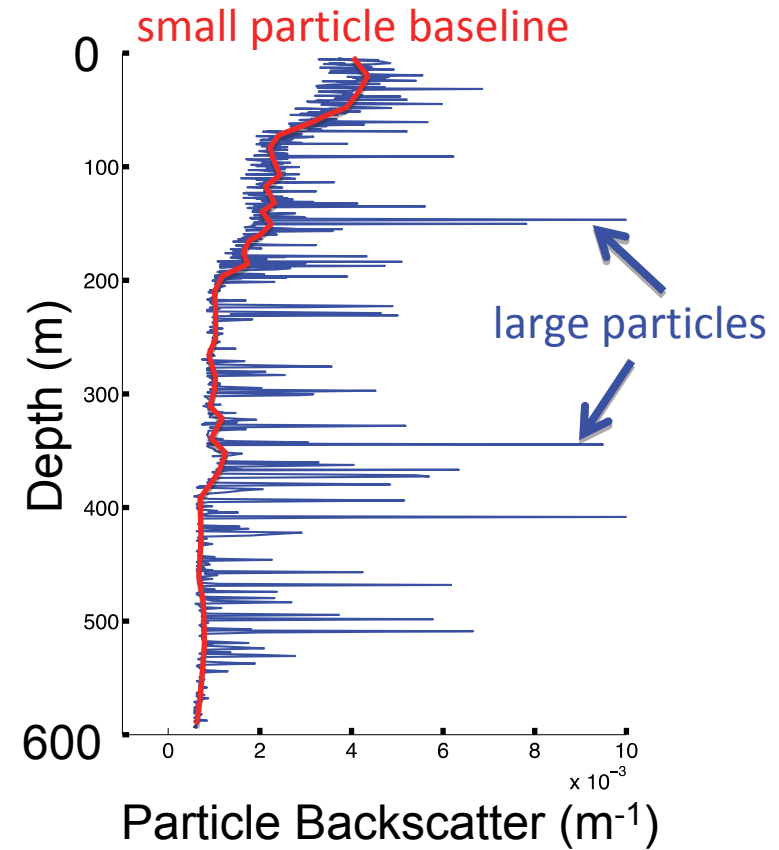
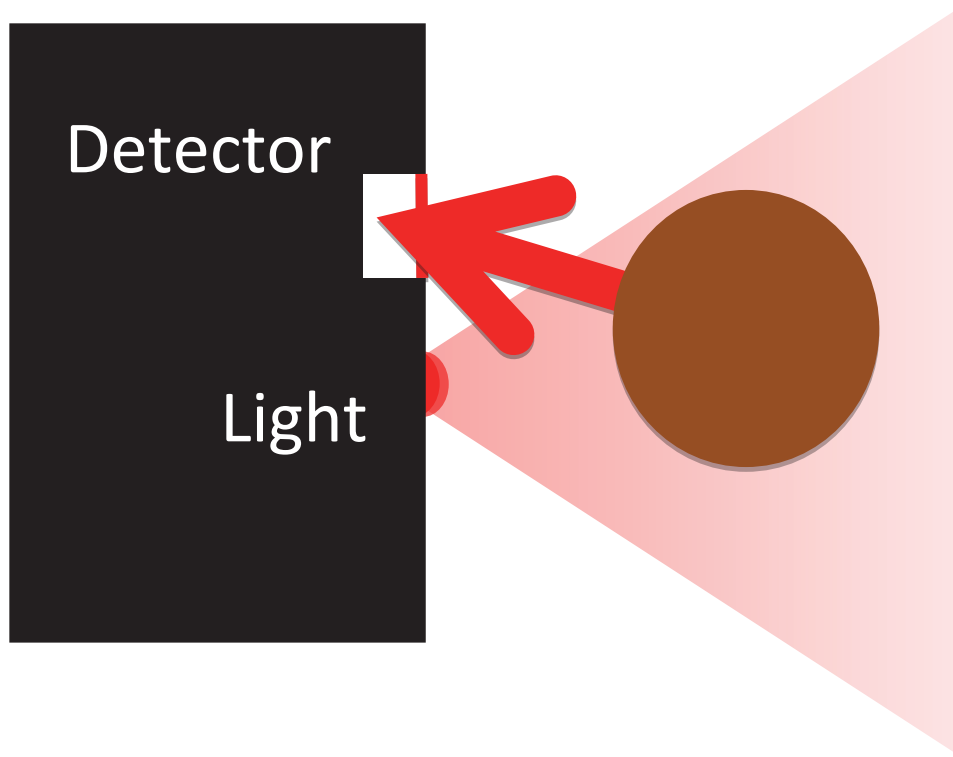
Rare encounters with large particles cause “spikes” in optical backscattering



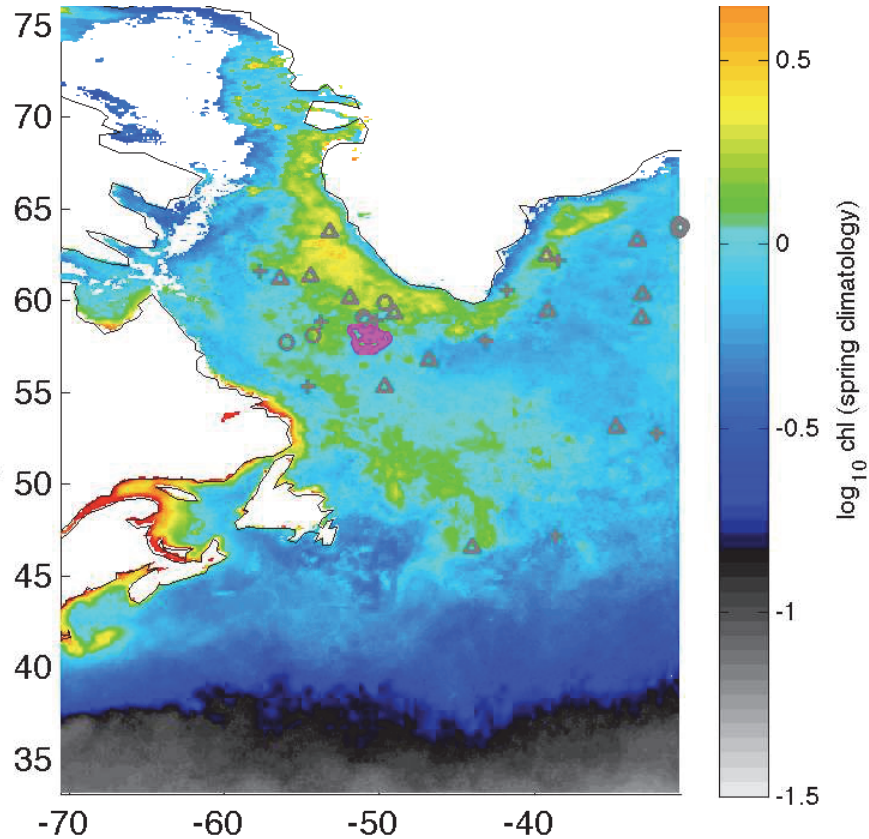
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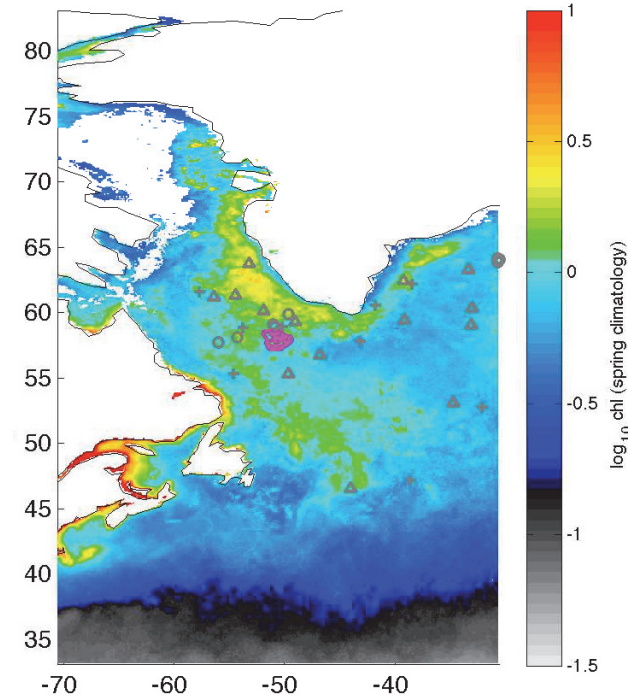
We can use these spikes to study large, rapidly-sinking particles from bio-argo floats



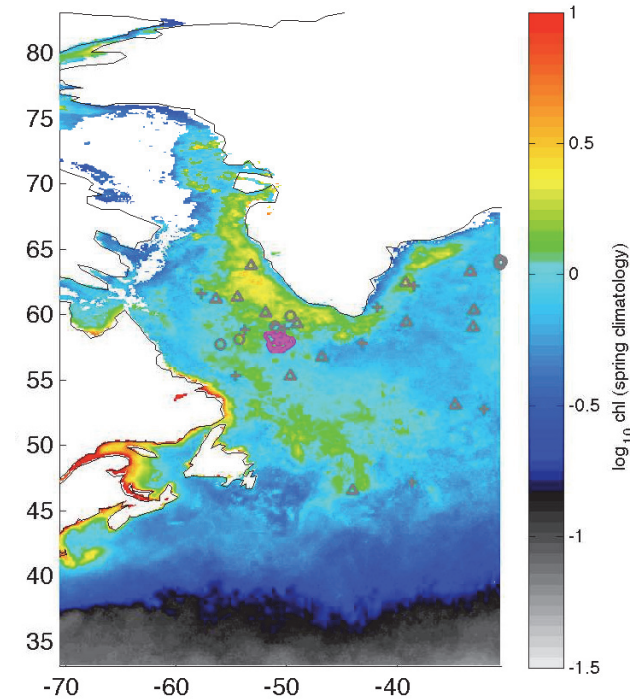
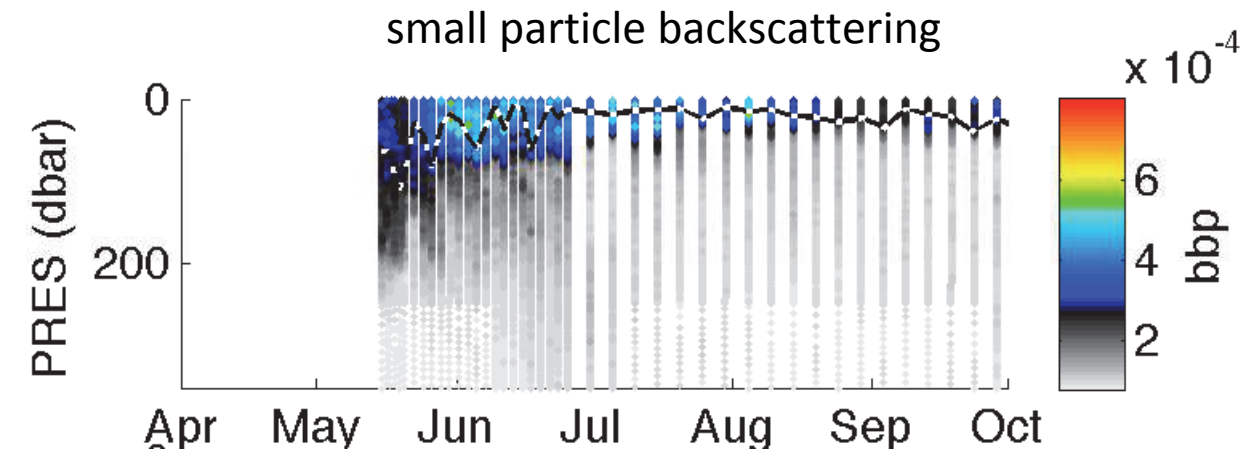
Clear aggregate flux events follow spring blooms in the subpolar North Atlantic



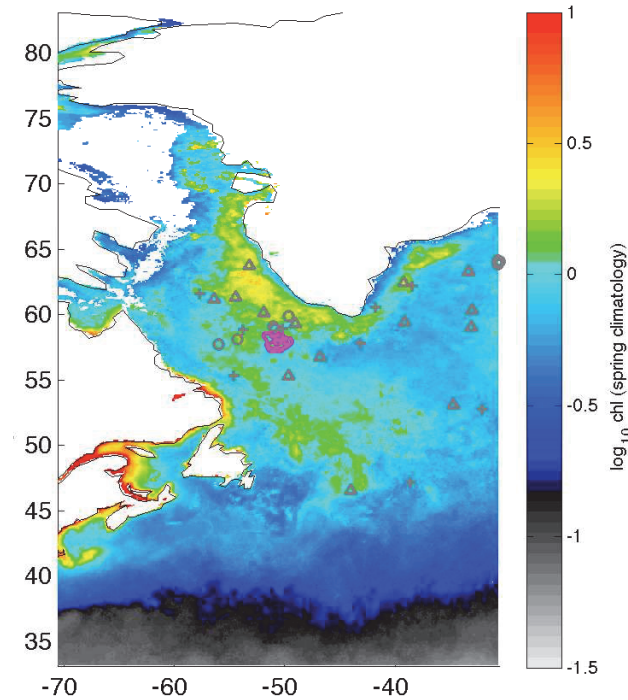
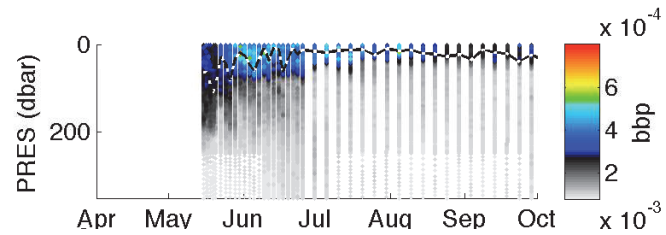
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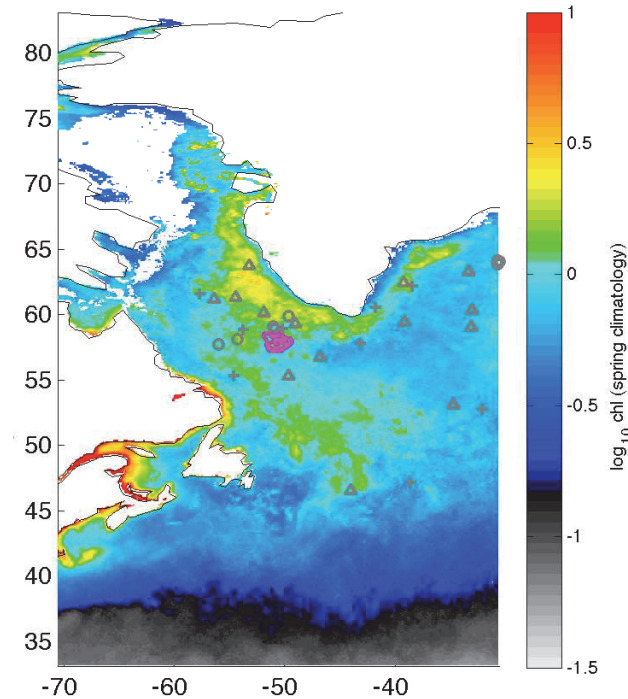
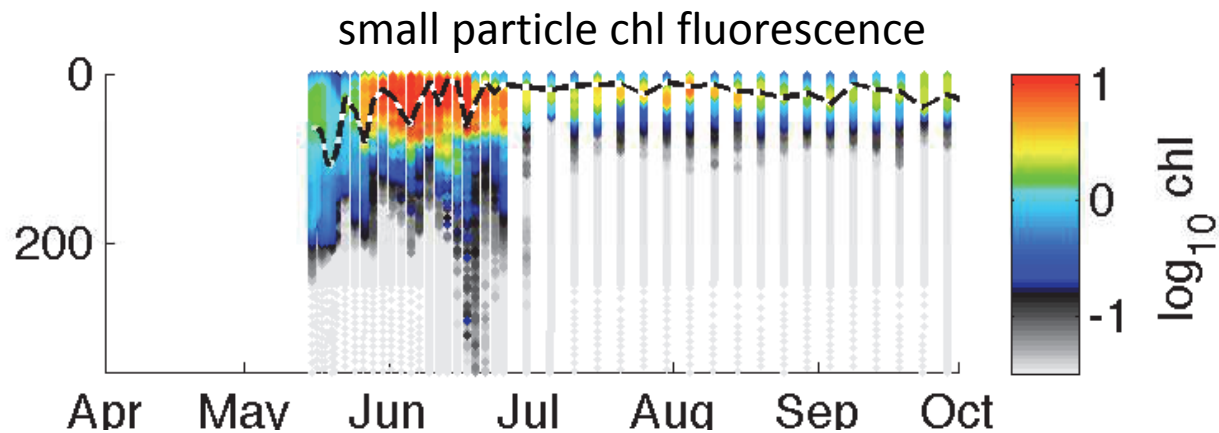
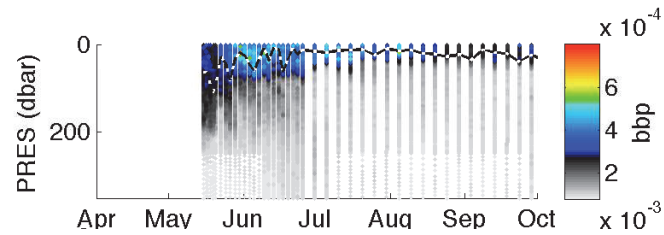
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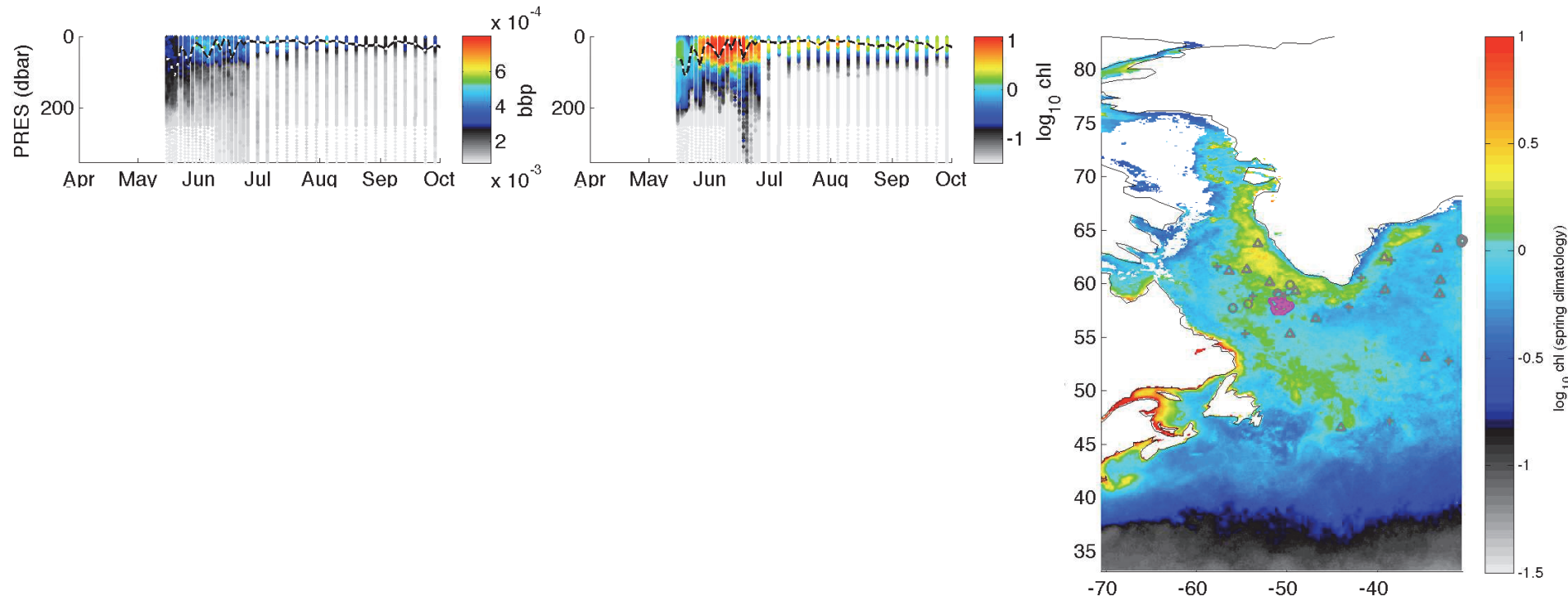
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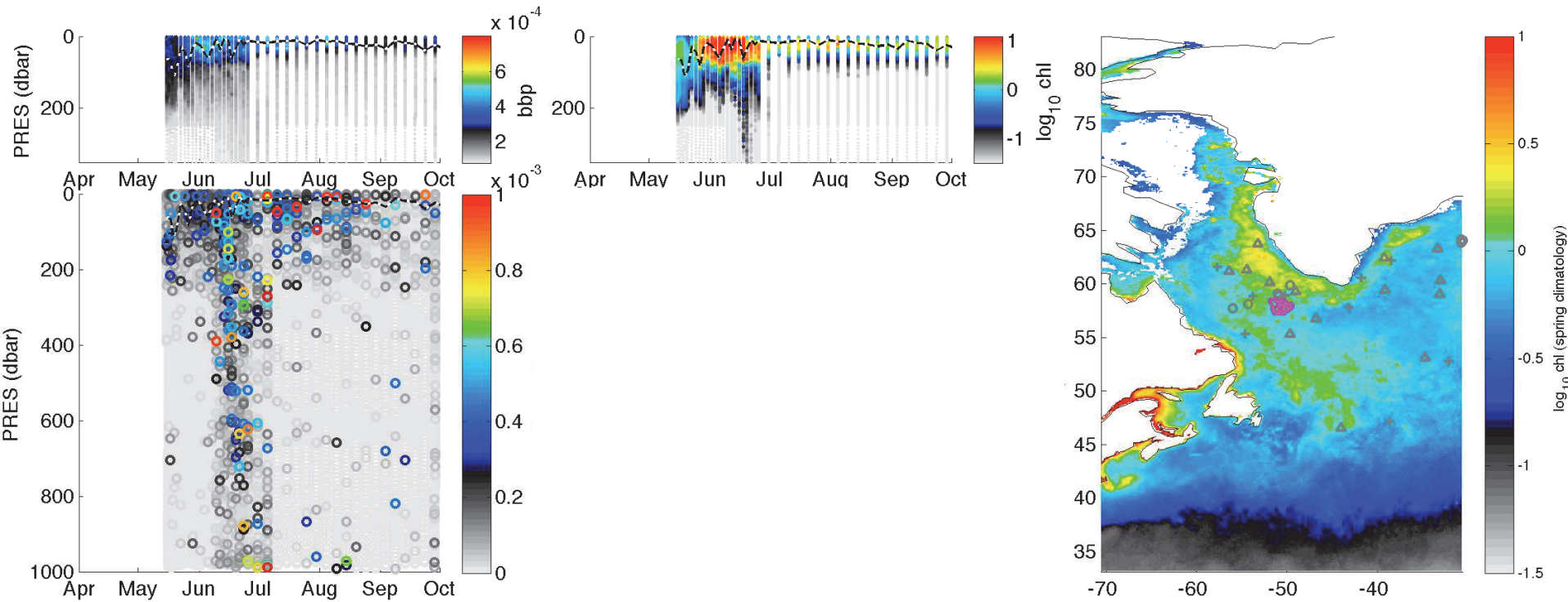
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Clear aggregate flux events follow spring blooms in the subpolar North Atlantic

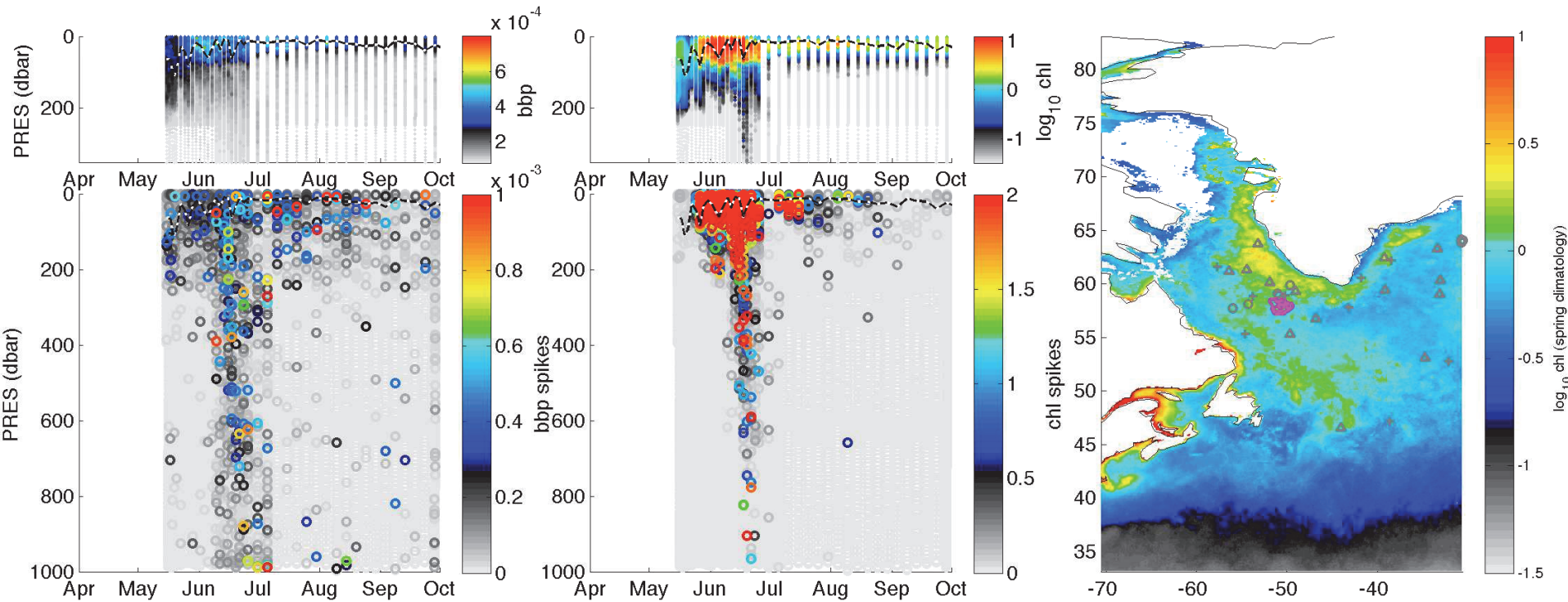


Clear aggregate flux events follow spring blooms in the subpolar North Atlantic



large particle backscattering

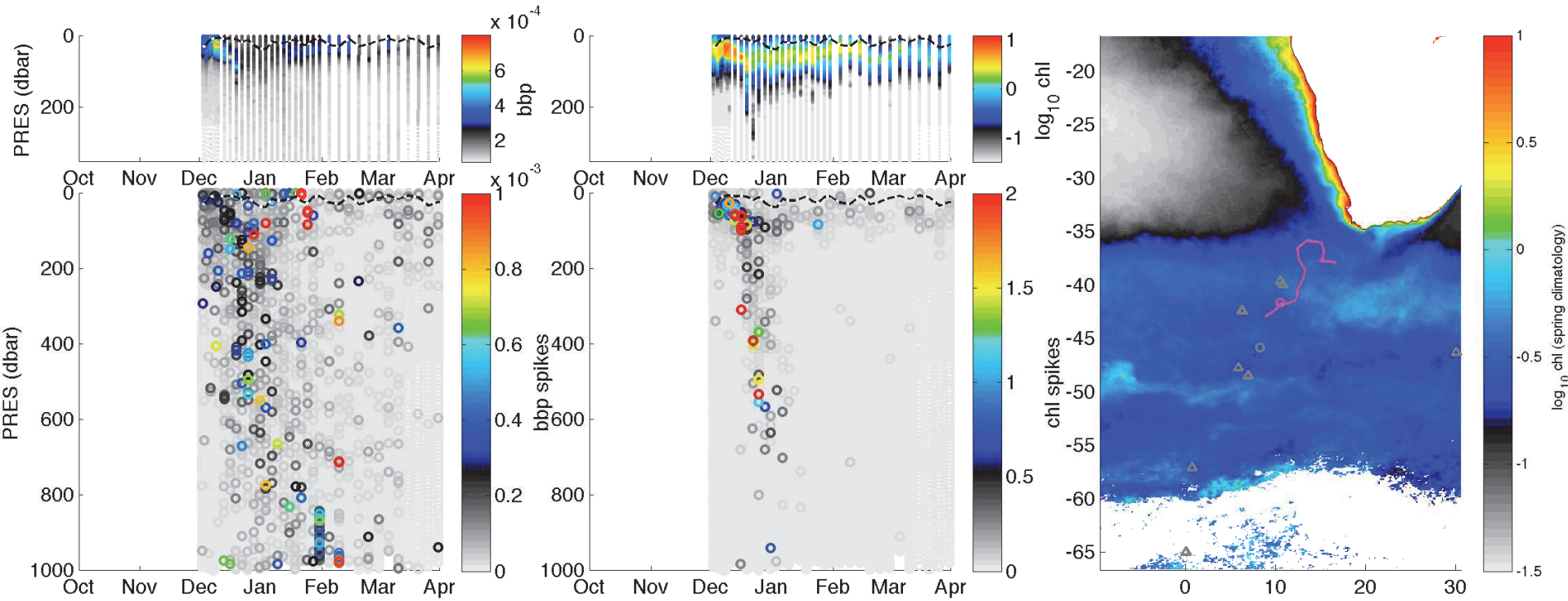
Clear aggregate flux events follow spring blooms in the subpolar North Atlantic



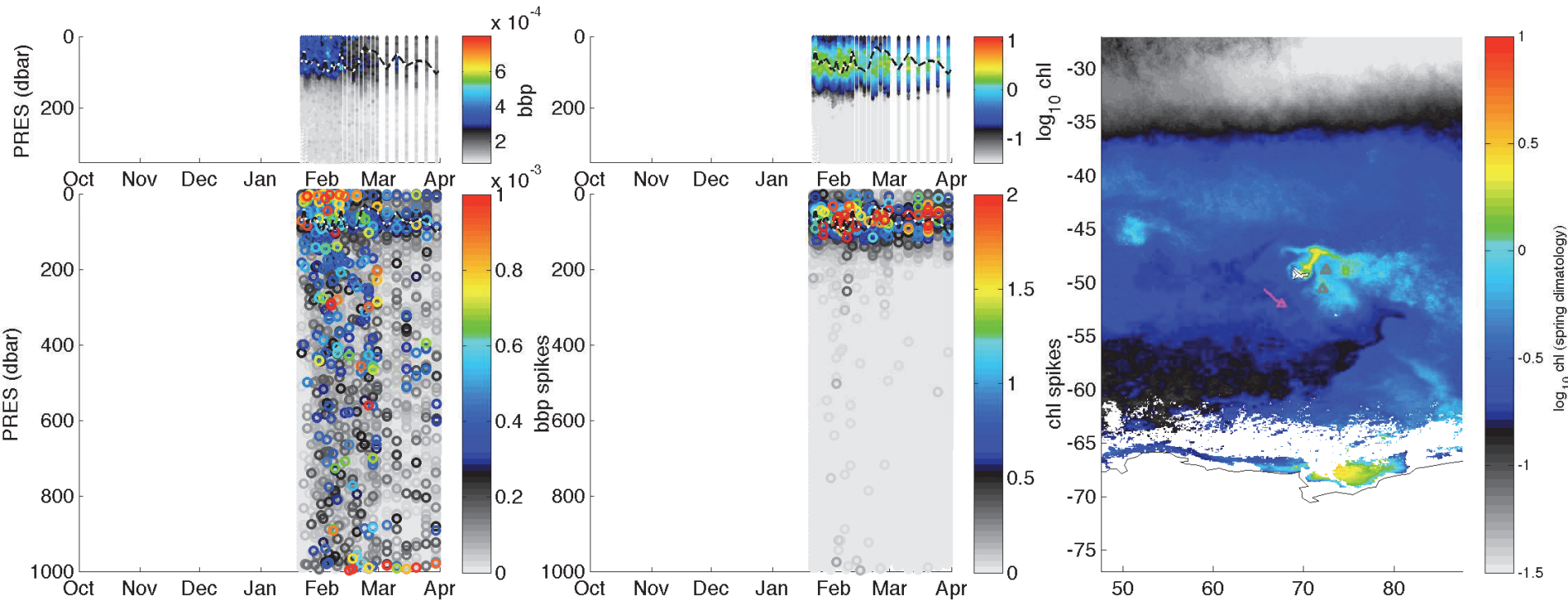
large particle backscattering

large particle chl fluorescence

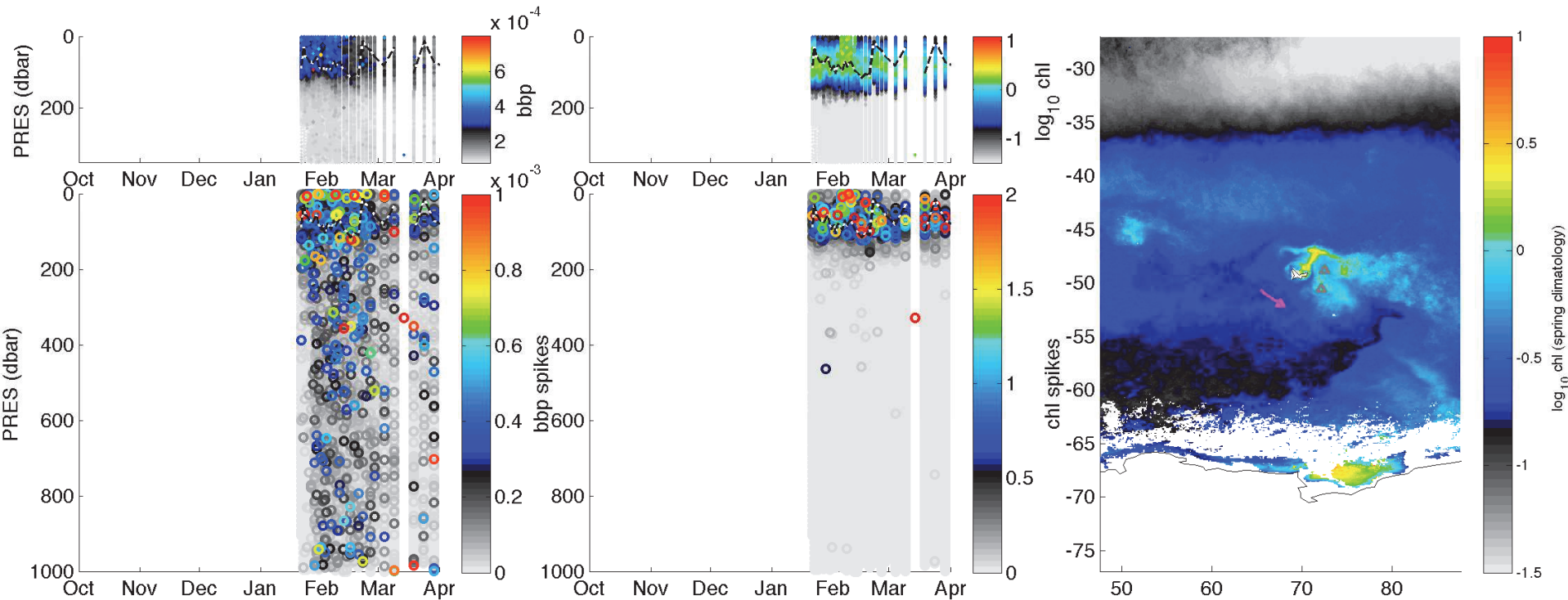
We see such events in the Southern Ocean as well



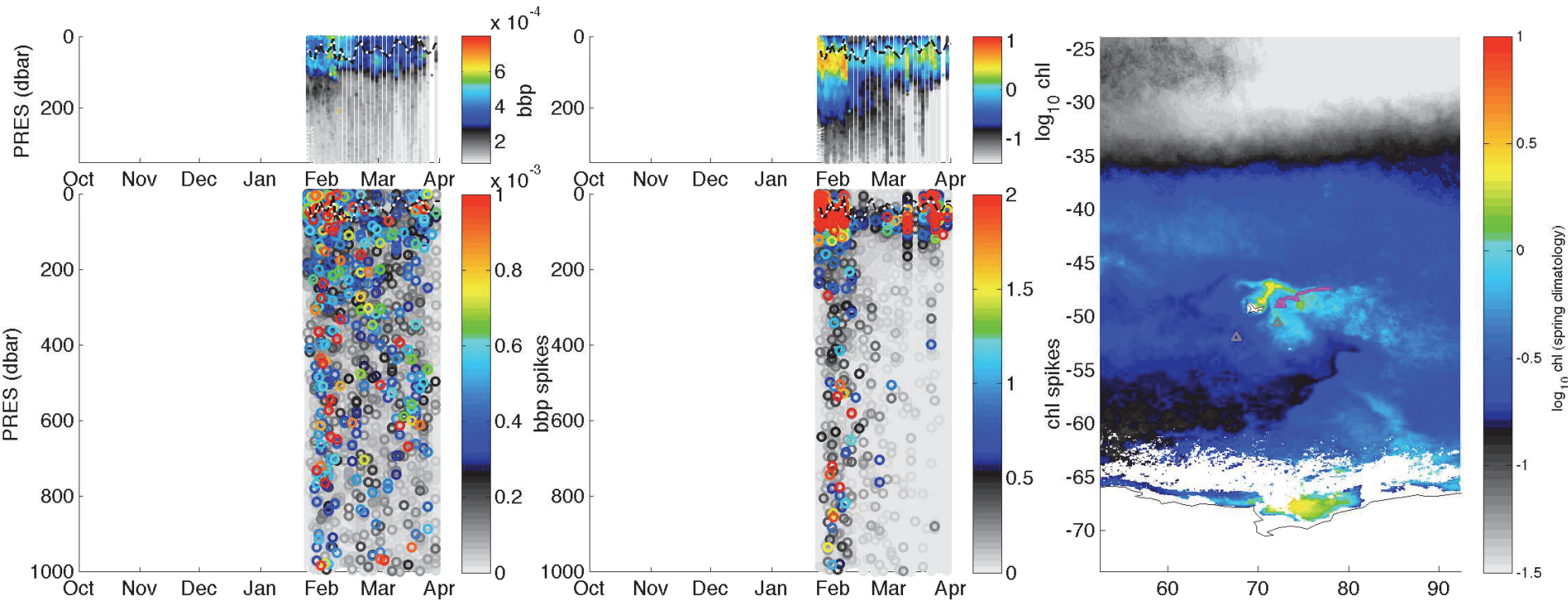
We are seeing clear patterns in large particle dynamics around the Kerguelen Islands this year



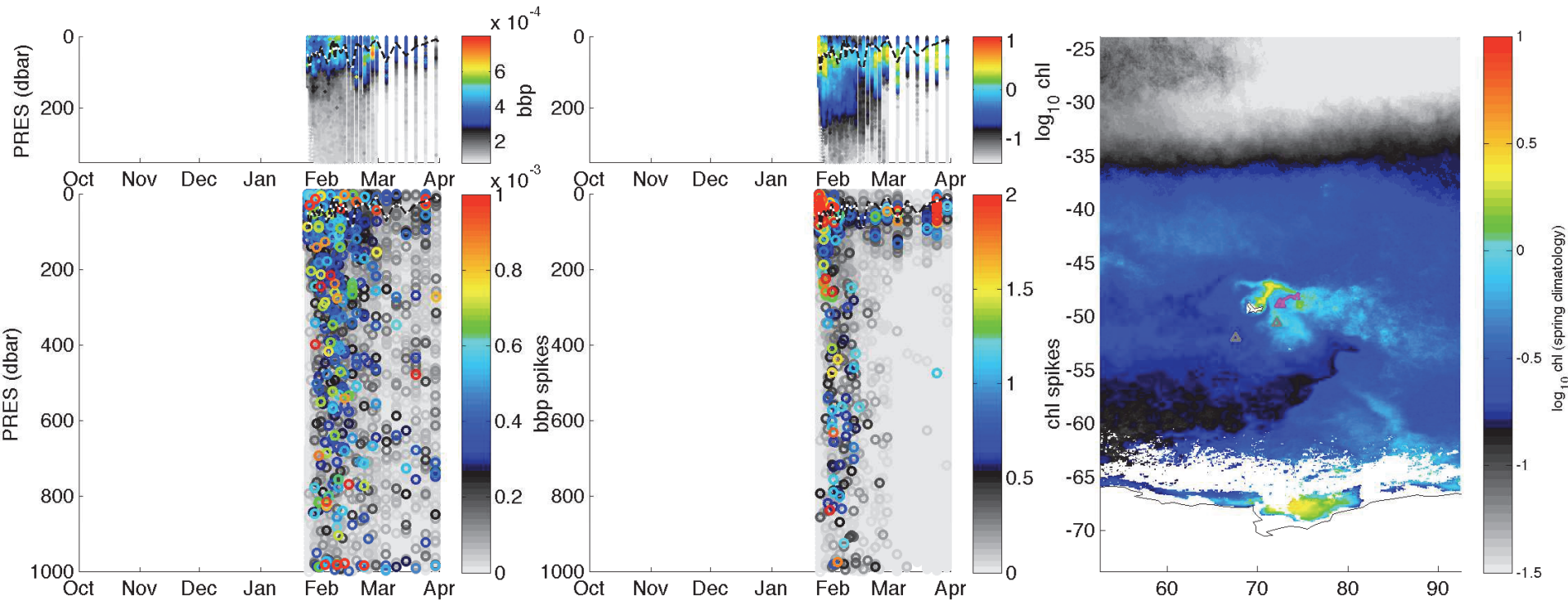
We are seeing clear patterns in large particle dynamics around the Kerguelen Islands this year



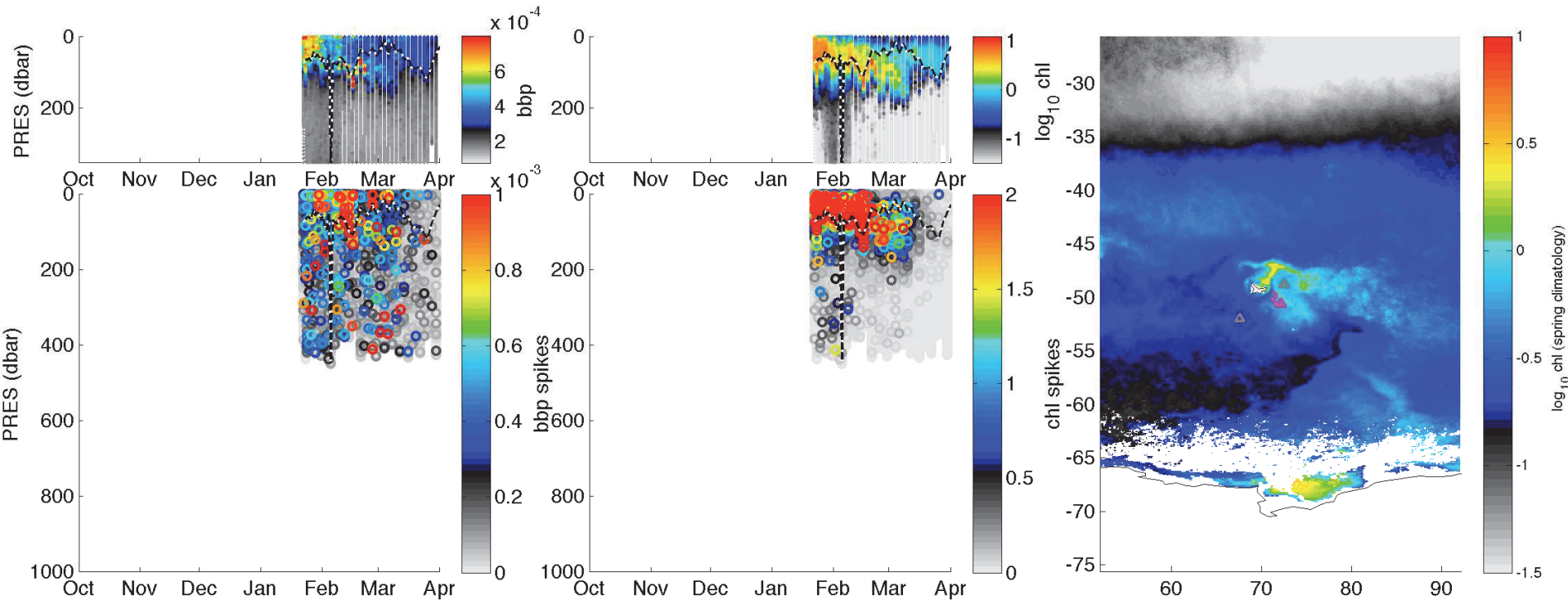
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