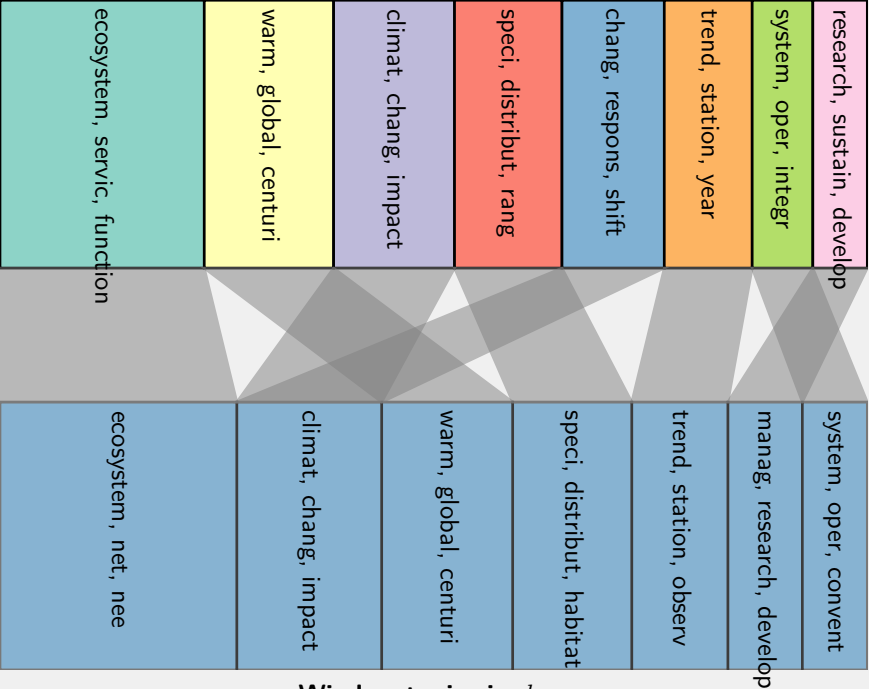


Dynamic topics in  $doc_1$



Window topics in  $doc_1$

Topic Doc	ecosystem net nee	climat chang impact	warm global centuri	speci distribut habitat
$doc_1$	0.034	0.021	0.019	0.017
$doc_2$	...	...	...	...
$doc_3$	...	...	...	...

Doc Topic Matrix

$\times$

Term Topic	chang	ecolog	global	recent
ecosystem net nee	0.18	0.39	0.01	0.03
climat chang impact	6.33	0	0.22	0.19
warm global centuri	0	0	3.72	0.31

Topic Term Matrix

$\approx$

Term Doc	chang	ecolog	global	recent
$doc_1$	4	3	2	2
$doc_2$	...	...	...	...
$doc_3$	...	...	...	...
$doc_4$	...	...	...	...

Doc Term Matrix

$doc_3$

$doc_2$

$doc_1$

**Ecological responses to recent climate change**

There is now ample evidence of the ecological impacts of recent climate change, from polar terrestrial to tropical marine environments. The responses of both flora and fauna span an array of ecosystems and organizational hierarchies, from the species to the community levels. Despite continued uncertainty as to community and ecosystem trajectories under global change, our review exposes a coherent pattern of ecological change across systems. Although we are only at an early stage in the projected trends of global warming, ecological responses to recent climate change are already clearly visible.